

# GM 71136

Technical report, 2018 exploration program, Kan project

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Énergie et Ressources  
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Québec 

**Technical Report  
2018 Exploration Program  
Kan Project, Labrador Trough, Québec**

**OSISKO MINING INC.**

**December 2018**

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## TABLE OF CONTENTS

<b>TABLE OF CONTENTS .....</b>	<b>II</b>
LIST OF TABLES .....	iv
LIST OF FIGURES .....	iv
LIST OF PHOTOS .....	iv
LIST OF APPENDICES.....	vi
LIST OF MAP .....	vi
<b>ACKNOWLEDGEMENTS .....</b>	<b>VII</b>
<b>ITEM 1. SUMMARY.....</b>	<b>1</b>
<b>ITEM 2. INTRODUCTION.....</b>	<b>3</b>
<b>ITEM 3. PROPERTY DESCRIPTION AND LOCATION.....</b>	<b>3</b>
<b>ITEM 4. ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY .....</b>	<b>4</b>
<b>ITEM 5. HISTORY .....</b>	<b>4</b>
5.1. Property ownership .....	4
5.2. Previous work .....	5
<b>ITEM 6. GEOLOGICAL SETTING AND MINERALIZATION.....</b>	<b>9</b>
6.1 Regional Geology .....	9
6.1.1 Regional Structure .....	11
6.1.2 Geochronology.....	12
6.2 Property Geology .....	13
6.2.1 Property Structure .....	16
6.3 Mineralization.....	19
<b>ITEM 7. DEPOSIT TYPES .....</b>	<b>20</b>
<b>ITEM 8. DRILLING.....</b>	<b>20</b>
<b>ITEM 9. SAMPLE PREPARATION, ANALYSES AND SECURITY .....</b>	<b>50</b>
9.1 Drill core sample security, storage and shipment .....	50
9.2 Drill core sample preparation assay procedures .....	51
<b>ITEM 10. DATA VERIFICATION.....</b>	<b>51</b>
10.1. Reference Material Validation.....	51
10.2. Drill core sample QAQC .....	52
10.2.1 Standard Oreas 252 .....	52

10.2.3 Standard Oreas 254 ..... 52

10.2.4 Standard Oreas 256 ..... 52

11.2.5 Standard Oreas SN-75..... 53

11.2.6 Standard Oreas SH-69..... 53

11.2.7 Blank Validation ..... 53

**ITEM 12 INTERPRETATION AND CONCLUSIONS .....53**

**ITEM 13 RECOMMENDATIONS .....54**

**ITEM 14 REFERENCES .....56**

**ITEM 15 SIGNATURES .....58**

**LIST OF TABLES**

Table 1: Geographical coordinates of central points, NTS sheets and areas of each claim block, Kan property.

Table 2: Summary of previous work within the property limits

Table 3: Summary of the 2018 drillhole specifications

Table 4: Best result, 2018 campaign

**LIST OF FIGURES**

Figure 1. Kan project location

Figure 2. Schematic stratigraphy of the foreland of the New Québec Orogen (Labrador Trough) subdivided into three cycles. After Clark and Wares (2004) and modified by Henrique-Pinto et al. (2017)

Figure 3. Figure modified from Klein (2005), showing the evolution of the stratigraphy from West to East

Figure 4. General structural setting in PPR area

Figure 5. Axial plan and veins measured on the 22 drillholes of the 2018 drilling campaign.

Figure 6. OSK-KAN-18-007 structural analysis, example of general structural features observed in 2018 drillholes.

Figure 7: Overview of the drillholes locations, 2018 campaign

Figure 8: Overview of the highlights in the Pump Pad Ridge area

Figure 9: Overview of the highlights in the Pump Pad Ridge - Pyrite Falls corridor and Pyrite Falls area

Figure 10: Overview of the highlights in the Ferricrete area

**LIST OF PHOTOS**

Photo 1: North of Noranda Ridge showing the conglomerate with the polarity to the East

Photo 2: OSK-KAN-18-013\_25.5m\_Normal sorting in iron formation

Photo 3: Bouma sequence with wavy lamination in Baby One More Time Area

Photo 4: OSK-KAN-18-005 from 80 to 92 metres, Overview of the carbonate iron formation which returned 0.4 ppm Au over 5 metres including 1.55 ppm Au from 88 to 89 metres.

Photo 5: OSK-KAN-18-006 from 166 to 172 metres, Overview of carbonate iron formation, ankerite facies which returned a cut of 0.55 ppm Au over 17 metres.

Photo 6: OSK-KAN-18-007 from 71 to 78 metres, Strongly altered iron formation with quartz-ankerite-chlorite veining which returned 1.8 ppm Au over 7 metres, including 5.2 ppm Au over 2 metres from 74 to 76 metres.

Photo 7: OSK-KAN-18-007 from 74 to 76 metres, Closeup of the alteration associated with quartz-ankerite-chlorite-pyrrhotite veining. Notice the pervasive alteration diffusing from the vein. Interval returned 5.2 ppm Au over 2 metres.

- Photo 8: OSK-KAN-18-008 from 81.7 to 85.6 metres, Close up of the silicate-oxide iron formation.
- Photo 9: OSK-KAN-18-008 at 85 metres, Sulfidation of magnetite cluster in silicate-oxide iron formation.
- Photo 10: OSK-KAN-18-009 at 130.5 metres, “Shaley iron formation” with local values of arsenic up to 5000 ppm and observed arsenopyrite grain.
- Photo 11: OSK-KAN-18-009 from 187 to 195 metres, Overview of the carbonate iron formation, siderite facies, which returned 1.40 ppm Au over 2 metres from 189 to 191 metres as well as 2.26 ppm Au over 1.1 metres from 193 to 194.1 metre.
- Photo 12: OSK-KAN-18-009 at 193.9 metres, Visible gold observed in a quartz-ankerite-chlorite-pyrrhotite veinlet in chloritized iron formation. Interval returned 2.26 ppm Au over 1.1 metres from 193 to 194.1 metre.
- Photo 13: OSK-KAN-18-010 at 51.8 metres, Visible gold observed in a quartz-ankerite-chlorite-pyrrhotite veinlet in chloritized iron formation.
- Photo 14: OSK-KAN-18-010 from 137 to 143 metres, Overview of the pervasive bleaching as well as quartz-ankerite-chlorite veining associated with the carbonate iron formation that returned 0.69 ppm Au over 5 metres from 135 to 140 metres, including 1.29 ppm Au over 2 metres from 138 to 140 metres.
- Photo 15: OSK-KAN-18-011 from 55 to 69 metres, Overview of the bleaching, as well as ankerite-chlorite-sericite penetrative alteration in carbonate iron formation found in the hinge zone of the Ferricrete antiform.
- Photo 16: OSK-KAN-18-011 from 73 to 83 metres, Overview of the interval that returned 0.38 ppm Au over 5 metres from 77 to 82 metres.
- Photo 17: OSK-KAN-18-012 from 186.5 to 189.5 metres, Overview of the epidote alteration within the carbonate iron formation found in the hinge zone of the Ferricrete synform.
- Photo 18: OSK-KAN-18-012 from 226 to 246 metres, Overview of the bleaching, as well as ankerite-chlorite-sericite penetrative alteration in silicate iron formation found in the hinge zone of the Ferricrete synform and associated with the returned cut of 1.45 ppm Au over 2 metres.
- Photo 19: OSK-KAN-18-013 from 3 to 10 metres, Overview of the ankerite facies, carbonate iron formation which returned 0.25 ppm Au over 5 metres.
- Photo 20: OSK-KAN-18-013 from 54 to 59 metres, Overview of the ankerite iron formation with high density of quartz veins.
- Photo 21: OSK-KAN-18-014 at 52.5 metres, Closeup of saccaroidal iron formation (possibly oxide chert?) with magnetite and pervasive pyrrhotite.
- Photo 22: OSK-KAN-18-015 at 29.8 metres, Ankerite iron formation with 15% of quartz-ankerite-chlorite-pyrrhotite veins with several visible gold grains.
- Photo 23: OSK-KAN-18-016 at 41.8 metres, Closeup of gold-bearing quartz-ankerite-chlorite-pyrrhotite veins.
- Photo 24: OSK-KAN-18-016 at 32 to 45 metres, Closeup of interval which returned gold values.
- Photo 25: OSK-KAN-18-017 at 167 to 169 metres, Closeup of gold-bearing quartz-ankerite-chlorite-pyrrhotite veins.
- Photo 26: OSK-KAN-18-019 from 187 to 187.5 metres, Quartz-ankerite vein injected into grey shale following D2 axial plane.
- Photo 27: OSK-KAN-18-021 at 228.6 metres, conglomeratic facies of the iron formation intersected in the southern fence of PPR-PF Corridor.

Photo 28: OSK-KAN-18-022 at 201.8 to 208.9 metres, mineralized zone consisting of decametric intervals from gabbro, iron formation, black shale, grey shale. Probably dismembered F1 antiformal fold hinge.

Photo 29: QZ-ANK-CHL-PO veins hosted in carbonate iron formation, at an interpreted fold hinge returning 1.385 ppm Au over 1 metre from 381 to 382 metres.

Photo 30: QZ-CL veins hosted in grey shale

Photo 31: VG in QZ-AK-CL-PO veins hosted in carbonate iron formation

Photo 32: Quartz-ankerite veins in carbonate iron formation

Photo 33: Quartz-ankerite-chlorite-pyrrhotite-pyrite-chalcopyrite veins in carbonate iron formation

Photo 34: General view of veining in carbonate iron formation

Photo 35: General view of the interval returning 4.22 ppm Au over 5 metres with minnesotaite occurrences and penetrative alteration

## **LIST OF APPENDICES**

Appendix 1 – Claim list Kan property

Appendix 2 – Abbreviation List

Appendix 3 – Drillhole Logs

Appendix 4 – Certificate of analysis for core samples

Appendix 5 – Drillhole Cross-sections

Appendix 6 – QA/QC validation

## **LIST OF MAP**

Map 1 to 12 – Drillhole Sections

Map 13 – Claims Location

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Finally, the authors would like to thank the team of geologists, technicians, operators and students that were involved in the 2017 and 2018 field programs.



**ITEM 1. SUMMARY**

The summer 2018 field activities for the Kan project consisted in an intensive, 15-week drilling campaign. The geological understanding, the interpretation, as well as the target generation for the drilling campaign presented in this report relies heavily upon the field work that was accomplished in 2017. Indeed, previous fieldwork demonstrated not only the structural complexity of the property but also how difficult it would be to understand this complexity through stratigraphic correlation as the transect and cartographic work also highlighted the vertical and lateral facies variation within the iron formation and mudstone units. Nevertheless, past surface work allowed for the interpretation of a transition from a proximal to distal environment from east to west by the distribution of the iron formation facies, which evolves from West to East, from Carbonate, to Carbonate-Oxide-Silicate, to Oxide-silicate facies.

The main conclusions from 2017 were important in aligning the program for 2018, whereby it was determined that a real-time analysis of structural data with stereographic projections and preliminary geochemical analysis with systematic XRF survey would be beneficial to better understand the geology and detect any alteration halo surrounding the deposit. Overall, Osisko Mining drilled 23 NQ calibre holes, for a total of 5566.5 metres on the Kan property. The metres were drilled over Pump Pad Ridge (PPR) area, Ferricrete area, Pyrite Falls (PF) area and the corridor between Pump Pad Ridge and Pyrite Falls (PPR-PF corridor). The majority of the metres and holes were focused in the PPR area, with 1383 metres over the PPR Anticline, 1541.5 metres over the PPR Syncline and 362 metres in the KTR Synform.

The best result of the campaign was returned in the PPR Syncline, in hole OSK-KAN-18-016, which returned **3.05 ppm Au over 11.5 metres** including 5.8 ppm Au over 3 metres, as well as in the KTR Syncline, in hole OSK-KAN-18-027, which returned **4.22 ppm Au over 5 metres** including 6.57 ppm Au over 3 metres. Finally, in the PPR Anticline, hole OSK-KAN-18-007 returned **1.8 ppm Au over 7 metres**, including 5.2 ppm Au over 2 metres. Most other holes also returned small intercepts, in the low grade range (below 5 ppm Au). In the Ferricrete area, the best cut was returned in the Ferricrete Syncline to the south, at **1.45 ppm Au over 2 metres** in hole OSK-KAN-18-012, while the Ferricrete Anticline returned intercepts of **0.38 ppm Au over 5 metres** and **0.25 ppm Au over 5 metres** in holes OSK-KAN-18-011 and OSK-KAN-18-013 respectively.

The structural analysis as well as the results returned from the drilling campaign allowed for a model to be developed, whereby the late D2 deformation seems to have concentrated mineralization in antiform fold hinges by creating tension veins and fractures. A favorable geochemistry and rheology can be found in the Ankerite > Siderite carbonate facies iron formation, which allows for the preferential precipitation of gold and the formation of a higher density of quartz-ankerite veining. The angle between D1 early deformation and D2 can also influence the density of quartz-ankerite veining.

Unfortunately, the presence of a continuous and extensive high grade mineralization was not uncovered by the drilling in the PPR area. From the current understanding of the D1 fold geometry, an extension at depth of the low-grade mineralization at PPR and in the hole OSK-KAN-18-016 does not seem probable, and this area is tested. In the area of KTR Synform however, the geometry of the folding remains complex and not well understood. The Ferricrete

Anticline has also been tested, but the discovery of a small intercept to the south in the Syncline opens that area for further testing.

Going forward, surface mapping and re-logging will be needed in order to gain a better definition and constraint in space of the D2 deformation event. As the relation between D1 and D2 plays an important role in vein density, other areas where D1 folding is expressed in a more E-W orientation become interesting for further exploration, such as in the area of the Cabbage showing. Iron formation has been highlighted as the favorable lithology for gold deposition, however, the Ankerite > Siderite facies seems to be a better host. The parameters governing the relation between mineralized fluids and ankerite alteration must be better understood to improve future targeting. Pyrite Falls showing, and now, the Ferricrete Synform, show evidence of demagnetization of the oxide iron formation by a sulfidation process. This could reinforce the use of the magnetic survey to target this kind of mineralization.

All in all, the property remains prospective, but no high grade, continuous mineralization requiring follow-up was discovered during the 2018 campaign.

## ITEM 2. INTRODUCTION

The following report presents the property's historical work, the regional and local geology including interpretation on stratigraphic sequence and structural setting and the results, interpretations and conclusions from the 2018 program. The summer 2018 field activities for the Kan project consisted in an intensive, 15-week drilling campaign that began on June 8<sup>th</sup> and ended on September 22<sup>nd</sup>. The geological understanding, the interpretation, as well as the target generation for the drilling campaign presented in this report relies heavily upon the field work that was accomplished in the summer of 2017.

The authors, *Simon T. Hébert*, Geo, B.Sc., has been involved on the project since 2015 for Virginia Mines-Osisko Mining and *Cynthia Lee, Jr. Eng.*, has been involved on the project since 2016 for Osisko Mining. Both authors were involved on the project during the 2018 campaign. The opinion expressed by the authors in this report are based on field observation, conversation within the framework of the partnership with Barrick Gold, and interpretations based on in-progress understanding of the geology. Their comment also relies on previous reports written on this project. The author believes that the recommendations are valid and appropriate considering the evolution of the project.

## ITEM 3. PROPERTY DESCRIPTION AND LOCATION

During the 2018 fieldwork, the Kan property, located approximately 85 km southwest of Kuujuaq, consists of 5 claims blocks for a total of 2243 claims covering approximately 1040.88 km<sup>2</sup> (Map 1). The claims in date of December 2018 are listed in Appendix 1.

Geographical coordinates of the central point (in NAD83, zone 19), NTS sheets and areas for each of the 5 blocks of the Kan property are, from west to east and north to south are listed in Table 1.

**Table 1: Geographical coordinates of central points, NTS sheets and areas of each claim block, Kan property.**

Block	UTM E	UTM N	Area (km <sup>2</sup> )	NTS
1	466237	6397306	17.88	24F/12
2	470712	6399129	18.34	24F/11, 24F/12, 24F/13, 24F/14
3	487206	6368802	874.3	24F/05, 24/F06, 24F/07, 24F/10, 24F/11, 24F/12
4	477626	6392126	4.59	24/F11
5	501112	63442140	136.5	24F/02, 24F/03, 24F/06, 24F/07

#### **ITEM 4. ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY**

The property is located along the Caniapiscau River and north of the confluence between the Koksoak and Caniapiscau rivers. The property is easily accessible all-year round by helicopter, whereas floatplanes and boat can be used in specific areas during summer.

The exploration team was based in an exploration camp located on the eastern shore of the Caniapiscau River near the falls locally known as “Pyrite Falls”. The village of Kuujjuaq is regularly served by commercial flights. As such, bulk cargo and freight can be sent to Kuujjuaq by air, but may also be shipped by boats which also supply the village during the summer season. Local resources in Kuujjuaq include accommodations, groceries, fuel and other limited services. An Astar B2 supplied by Canadian Helicopter was used for crew and material transportation between Kuujjuaq and the camp as well as between the camp and other areas of the property. The camp was also supplied weekly by floatplanes held by Johnny May’s Air Charters.

The landscape of the study area is dominated by a series of crests mostly oriented N-W, S-E. The Koksoak and Caniapiscau rivers cut a large and relatively flat valley with vegetation typical of the northern boreal forest composed of alder, birch, black spruce and larch. High terrains commonly consist of extensive exposures of outcrops and by a cover of tundra. The altitude varies from 300 to 1000 metres. Lakes are abundant but tend to be relatively small. The average temperature varies from -24°C in January to 11°C in July. The average annual precipitation is 277 mm of rain falling from May to October and 257 cm of snow during the winter season from November to April.

#### **ITEM 5. HISTORY**

##### **5.1. Property ownership**

In July of 2013, Exploration Osisko Baie-James (formerly Virginia Mines Inc.) signed a strategic alliance with Altius Minerals Corporation (“Altius”) to explore geological settings favorable for different types of mineralization in the Labrador Trough. In 2014, Exploration Osisko Baie-James entered into an agreement with Altius Resources, a wholly-owned subsidiary of Altius Minerals Corporation, to acquire the Kan property from Rio Silver Inc. This property is located in Nunavik, northern Quebec. This agreement also provides Tectonic Resources Inc. with a 2 % NSR on 209 claims included in the Kan property, half of which (1 %) can be bought back by Exploration Osisko Baie-James and Altius for \$500,000 on or before April 2<sup>nd</sup>, 2015, or for \$ 500,000 on or before April 2<sup>nd</sup>, 2015, for \$1,500,000 thereafter.

On March 27<sup>th</sup> 2017, Osisko Mining Inc. (formerly Exploration Osisko Baie James) announced that it had entered into and commenced an earn-in agreement with Barrick Gold in respect of an exploration earn-in (the "Exploration Earn-In") on the Kan property located in northern Québec. Under the Exploration Earn-In, Barrick must commit \$15 million in work expenditures on or prior to December 31, 2020, to earn a 70% interest in the Kan Property, subject to certain annual work expenditure thresholds, including a guaranteed expenditure threshold of \$6 million on or prior to December 31, 2018. Following the completion of the Exploration Earn-In, the Kan

Property will be transferred to a new joint venture entity to be owned 30% by Osisko and 70% by Barrick. Osisko and Barrick will then enter into a joint venture agreement in respect of the Kan Property. In addition, Barrick may earn a further 5% interest in the joint venture entity (for a total interest of 75%) by electing to fund an additional \$5 million of project level expenditures (such as a preliminary economic assessment or pre-feasibility study).

The property’s surface area almost doubled in 2017 after the announcement of the Exploration Earn-In signature, which precipitated a small claims rush in this portion of the Labrador Trough.

**5.2. Previous work**

Exploration works in the Trough historically focused on iron, mainly hosted in the Sokoman Formation, with documented activity beginning around 1940 and persisting intermittently until 1960. During this period of time, several mineralized occurrences of precious and common metals (Pb-Zn-Cu-Ag) were also discovered in volcanic and sedimentary context and thereafter, in 1980, exploration companies investigated the potential for Cu-Ni-EGP in gabbroic intrusions and gold in iron formation. In the beginning of 2000, Virginia Mines Inc., focused on Ni-Cu-EGP mineralization with exploration campaigns in the Labrador Trough.

Though not on the property itself, another significant project occurs 50 km south of the property, where Commerce Resources is developing a rare earth element deposit in the Le Moyne carbonatite intrusion. A positive Preliminary Economic Assessment of this project was completed in 2012.

A summary of previous work done within the limits of the property is shown below in Table 2:

**Table 2: Summary of previous work within the property limits**

<p><u>Osisko Mining (2017)</u>                  Technical report, 2017 Exploration program, Kan Project, (Hébert and Lee, 2018)</p>
<p><u>Effigis (2017)</u>                  -Cartographie des dépôts de surface pour le projet KAN dans le nord du Québec à partir d’images satellite haute-résolution</p>
<p><u>Osisko Mining (2017)</u>                  -Final technical report, High resolution helicopter-borne magnetic survey, Geo Data Solutions GDS inc. (D’Amours, 2017)</p>
<p><u>Osisko Mining (2015-2016)</u>                  Technical report, 2015-2016 Exploration program, Kan Project, (Hébert and Simard, 2017)</p>

Exploration Osisko Baie-James (2014)

-Technical report and recommendations, Summer 2014 exploration program on Kan project, (Simard et al., 2015)

Ministère des Ressources Naturelles du Québec (2014)

-Geological mapping of NTS sheets 24F and 24G, scale 1:250 000 (Lafrance et al., 2014)

Virginia Mines (2013)

-Reconnaissance mapping over the Fosse-Au property on NTS sheets 24F/06, 24F/11, 24F/12, 24F/13, 24F/14. (Hébert et al., 2014)

Ministère des Ressources Naturelles du Québec (2012-2013)

-Assessment of the potential for pelitic-mafic type volcanogenic massive sulphide mineralization in the Labrador Trough. (Lamothe, 2013)

-Levé magnétique et spectrométrie aéroportée. (D'amours et al., 2012)

-Exploration targets determined from spectrometric data in the Lac Le Moyne and Rivière Koksoak areas, Churchill Province. (D'Amours et al., 2012)

-Structural and metallogenic interpretations of the Labrador Trough based on magnetic and spectrometry maps. (Clark et D'Amours, 2012)

Rio Silver Inc. (2011-2012)

-Diamond drilling campaign, prospecting and sampling, summer 2012. (Smith et al., 2013)

-Prospecting, sampling and trenching, summer 2011. (Laforest. 2012)

-Airborne VTEM and magnetic survey. (Prihodko et al., 2011)

Ministère des Ressources Naturelles du Québec (2009)

-Reanalysis of lake-bottom sediments in northeastern Québec. (Maurice et al., 2009)

Everton Resources Inc. (2008)

-Prospecting and sampling over the Kan-Jack property, summer 2008. (Block et al., 2009)

Ministère des Ressources Naturelles du Québec (2005)

-Lithotectonic and metallogenic synthesis of the New Québec orogen. (Clark et al., 2006)

Noranda Inc. Exploration (1998-2000)

-Drilling campaign, prospecting, rock and soil sampling, stream sediments sampling, summer 2000.

(Trépanier, 2001)

-Gravity and Mag-VLF ground surveys, 1999. (Granger, 2000)

-Prospecting and rock sampling, soils and stream sediments sampling, summer 1998. (Lapointe et al., 1998).

Kennecott Canada Inc. (1993-1996)

-Detailed stream sediment sampling, soil and rock geochemistry, summer 1996. (Spector, 1996)

-Diamond drilling campaign, detailed geological mapping, soil, stream, till and rock geochemistry, summer 1995. (Rosatelli, 1996)

-Detailed geological mapping, sampling, soil survey and drilling program, summer 1993. (Rosatelli et al., 1995)

-Helicopter-borne magnetic, electromagnetic and VLF-EM survey, 1993. (Woolham, 1993)

Ferderber geophysics Ltd. (1996)

-Airborne magnetic and VLF survey, 1996. (Scott, 1996)

Ministère des Ressources Naturelles du Québec (1988)

- Metallogenic synthesis of sulphide showings north of the 57<sup>th</sup> parallel- Labrador Trough. (Wares et al., 1987)

Southern Era Resources Ltd. (1988)

-Trenching, channelling and rock sampling, summer 1988. (Westoll et al., 1988)

Ministère des Ressources Naturelles du Québec (1987)

-Stratigraphy, petrography and petrochemistry of the Baby Iron Formation in the Lac Herodier region. (Clark, 1987)

-Platinum group elements in the Labrador Trough. (Clark, 1987)

Exploration Noranda Ltee (1987)

-Reconnaissance and detailed ground prospecting, rock sampling, summer 1987. (Bernard et al., 1988)

Ministère des Ressources Naturelles du Québec (1979-1982)

-Cu-Zn and Cu-Ni deposits in the northern and central part of the Labrador Trough. (Fournier, 1981, 1982)

-Koksoak River Area. (Clark, 1980).

-Geochemistry and Radioactivity in the Labrador Trough. (Kish et al., 1979)ominco Ltee (1974-1976)

-Line cutting, geological mapping, EM survey and water sampling, (Armstrong, 1976)

-Line cutting, geological mapping and rock sampling, drilling campaign, EM and Mag survey, soil, water and stream sediments sampling, summer 1974-1975. (Armstrong et al., 1976)

Imperial Oil Enterprises Ltd. (1971-1973)

-Detailed geological mapping, magnetometer and electromagnetic survey, 1973. (Larkin, 1973)

-Geochemical and geophysical surveys, summer 2011 (Larkin, 1971)

Hollinger North Shore Exploration company. (1972 and 1963)

-Drilling campaign, 1972. (Choi, 1972)

-Geophysical EM and Magnetic ground and aerial surveys, detailed geological mapping, summer 1962. (Kozela, 1963).

Prospector, James Boylen (1962)

-EM and magnetic surveys, prospecting and rock sampling, 1963. (Baldwin, 1963)

-Drilling campaign, 1962. (Baldwin, 1962)

Historical works by various companies (1945-1962)

-Quebec Labrador Development Company Ltd: Prospecting, rock analysis, drill holes location, technical assessment (1947-1952)

-Fenimore Iron Mines Ltd.: Prospecting, rock sampling and technical assessment (1951, 1957)

-Fort Chimo Mines Ltd.: Prospecting and Rock sampling (1952)

-Holannah Mines Ltd.: Geological survey (1954)

-Lagava Minerals Ltd.: Drilling campaigns, geological survey. (Brown, Agarwal et al., 1956, 1957)

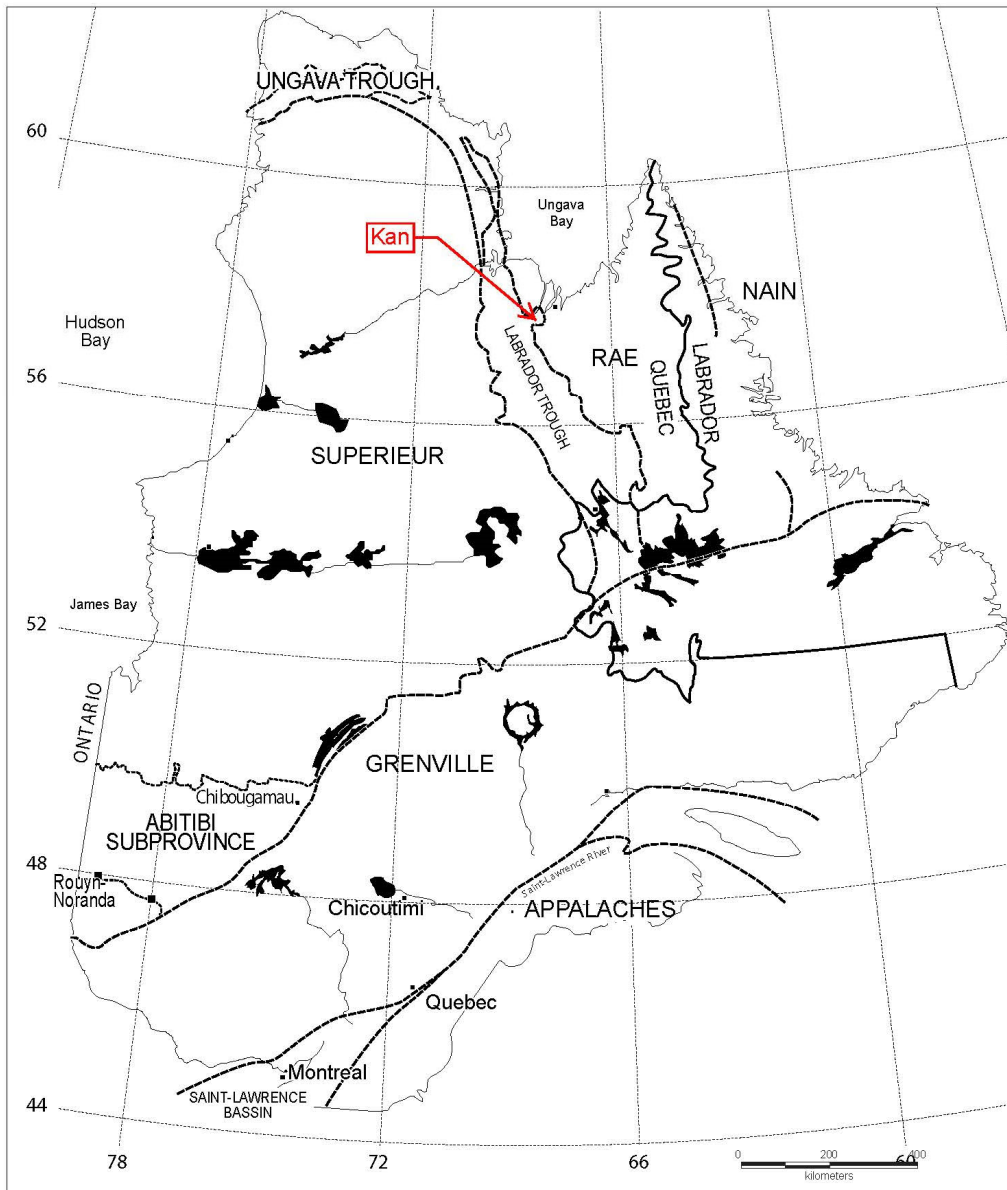
-Telstar Metal Mines Ltd.: Rock analysis, EM and magnetic ground surveys, diamond drill holes. (Baldwin, 1962)



**ITEM 6. GEOLOGICAL SETTING AND MINERALIZATION**

**6.1 Regional Geology**

The project is located in the western part of the New Québec Orogen (NQO), also known as the Labrador Trough (Figure 1). The New Québec Orogen represents the northeastern extension of the Trans-Hudson Orogen, an early Proterozoic collisional zone that borders the Superior Province. The Labrador Trough is a 850 km long northwest-trending orogenic supracrustal belt of Paleoproterozoic age (2.17 – 1.87 Ga) that separates the Superior Province from the Churchill Province (Rae). The Labrador Through is bordered to the south by the Grenville Province.



**Figure 1: Kan project location**

The Labrador Trough is part of an accretionary orogeny which created new crust during the rifting of the Superior Province. This Archean-age (2170-1870 Ma) belt is mainly composed of sedimentary and volcanic rocks that formed during three different cycles of deposition and volcanism (Clark and Wares, 2004). Following new research and dating of detrital zircon in the Labrador Trough by Henrique-Pinto et al. (2017), there is no indication of an erosional discordance between the first and second cycle of deposition and volcanism, contrary to what was proposed by Clark and Wares (2004).

According to Clark 2004 (Figure 2), the first cycle is composed of an intracratonic rift basin sequence overlain by a passive margin sequence (the second cycle). This model is supported by the detrital zircon dating by Henrique-Pinto et al. (2017). A result of the collision between the Archean craton of the Superior province and the core zone of the Churchill provinces, where the rocks of the first cycle are mainly located in the southern part of the belt. This sequence result of the rifting of the Archean continent along the northeastern margin of the Superior Province. Following the deposition of the volcanic and early sediment units, the orogenic system deposited sandstone and dolomite on a passive margin platform. Detrital zircons from conglomerates located in the Baby formation were dated at 2565 Ma as maximal ages. This Archean age suggests that the sediment is sourced from the Superior province (Henrique-Pinto et al., 2017).

The second cycle is characterised by a transgressive sequence composed of platform sediments (sandstone, iron formation, turbidite), alkaline volcanic rocks and intrusions which include Abner and Baby formations. The first two cycles are intruded by numerous tholeiitic mafic to ultramafic sills, which are part of the Circum-Superior Large Igneous Province (CSLIP).

The last cycle is composed of metasedimentary rocks (metapelite, quartzite, calc-silicate rock, sulfide iron formation and amphibolite) locally intercalated with metabasalt. All the units have been deformed during the Hudsonian Orogeny (1845-1783 Ma) and are transposed SW to WSW (Machado et al., 1988).

The Circum-Superior Large Igneous Province (CSLIP) is spacially associated and include sequences in the trans-Hudsonian Orogeny which surrounded the Superior Province. They include sequences in the Labrador Trough, the Cape Smith belt, eastern Hudson Bay, the Thompson and Fox River Belt. In the Labrador Trough, this great magmatism event is responsible for the Nimish Formation, the Hellancourt formation, the Wilbob formation, the Douay formation, the Montagnais sills and the Castignion Lake Carbonatite intrusion (Ciborowski and al., 2017).

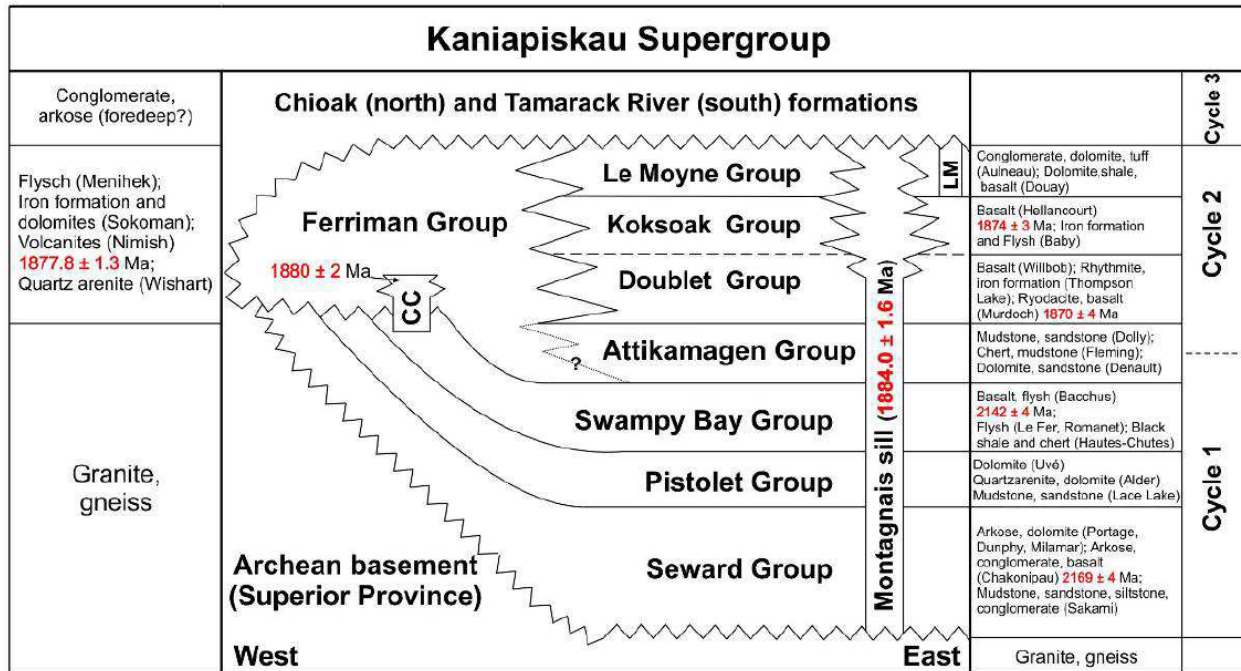


Figure 2: Schematic stratigraphy of the foreland of the New Québec Orogen (Labrador Trough) subdivided in to three cycles. After Clark and Wares (2004) and modified by Henrique-Pinto et al. (2017)

Previously, the geology of the northern part of the Labrador Trough can be defined by three lithotectonic belts separated by major thrust faults:

- 1) A western paraautochthonous to allochthonous belt mainly composed of platform sedimentary rock.
- 2) A central allochthonous belt composed of greenschist facies volcano-sedimentary rocks intruded by numerous gabbro sills. This part is bounded by the Ferrum River Fault to the west and by the Herodier Lake Fault to the east.
- 3) An eastern allochthonous belt composed of amphibolite facies rock, previously interpreted to be equivalent to rocks of the central belt and tectonic nappes of Archean basement rocks. However, recent work in 2017 by Henrique-Pinto et al. have highlighted a different source for the sediments of the amphibolite facies rocks of the Laporte Group, by dating detrital zircon, and as such, the eastern allochthonous belt is not a metamorphosed equivalent of the central belt.

### 6.1.1 Regional Structure

The western part of the Trough is deformed into a wide synclinorium cut by a system of imbricated thrust fault system dipping at high angles towards northeast. At increasing depth, the faults dip at increasingly shallow angles and meet along a basal decollement. In a few places, thrust faults penetrated Archean basement and carried slices of these rocks into the imbricated Proterozoic sequence.

Dimroth (1970a) also proposed the existence of a large, central anticlinorium, limited and cut by major thrust faults such as the Ferrum River, Argencourt, Chassin, Walsh Lake and Robelin faults. He noted that the length of these faults ranged from 80 to 250 km and that displacement along the faults diminished from their centres towards their extremities. In the central anticlinorium, synforms are generally open, whereas antiforms are typically tight, angular, and cut by thrust faults.

The eastern part of the Trough, including part of the immediate hinterland, is a wide synclinorium with overturned, nearly isoclinal folds. In many places, the structural style reflects interference between several generations of folds.

The tectonic fabric in the fold belt is oriented NNW-SSE, and folds plunge generally towards the SSE at an average angle of about 15°. Structures related to the collision include map-scale folds and various generations of thrust faults, several of which (e.g. the Rachel Lake and Olmstead Lake faults) include a dextral strike-slip component (Goulet et al., 1987; Moorhead and Hynes, 1990; Goulet, 1995). The Canyon synform must be created by this compression phase. This compression was followed by a NE-SW compression producing NW-trending, upright and open folding. Finally, a late NNE-SSW compression created penetrative crenulation cleavage, open folding and tension veins and fractures.

### **6.1.2 Geochronology**

Recent studies from Henrique-Pinto et al. (2017) highlight the temporal evolution of the New Quebec orogeny and add new constraints to the timing and sedimentary sources of the different volcano-sedimentary cycles. The beginning of rifting was determined to have occurred around 2.17 Ga, which takes part in the deposition of sediment and volcanic activity (Sewart Group). The transition from a rifting regime to a passive margin created dolomite (Denault Formation, sediment source dated at 2.67-2.72 Ga) and cut by the rhyolite dykes of the Bacchus Formation dated at 2142±4 Ma. The meta-sandstones from the Baby Formation have a source dated at 2.7 Ga which is related to the Superior Province. The Montagnais Sill, intercalated in the Baby Formation was dated at 1884.0±1.6 which restricts the age of the intercalated sediment. The Hellancourt and Murdoch basalt located to the east of the Baby Formation have been dated at 1874±3 and 1870±3 respectively.

The maximum difference ages between magmatic event included in Denault formation and Baby formation are approximately of 258 Ma. From the study by Henrique-Pinto (2017), no erosional discordance can be found between the deposition of the Denault and the Baby Formation. As such, the great difference in ages between the magmatic events hosted in these two formations highlights the importance of the Robelin Fault, which places these two events in close spatial proximity.

Finally, the Laporte group was deposited between 1834±2.4 and 1793±2 Ma with a source from the Core Zone and is thus not a metamorphosed equivalent of the Labrador Trough (Henrique-Pinto et al., 2017).

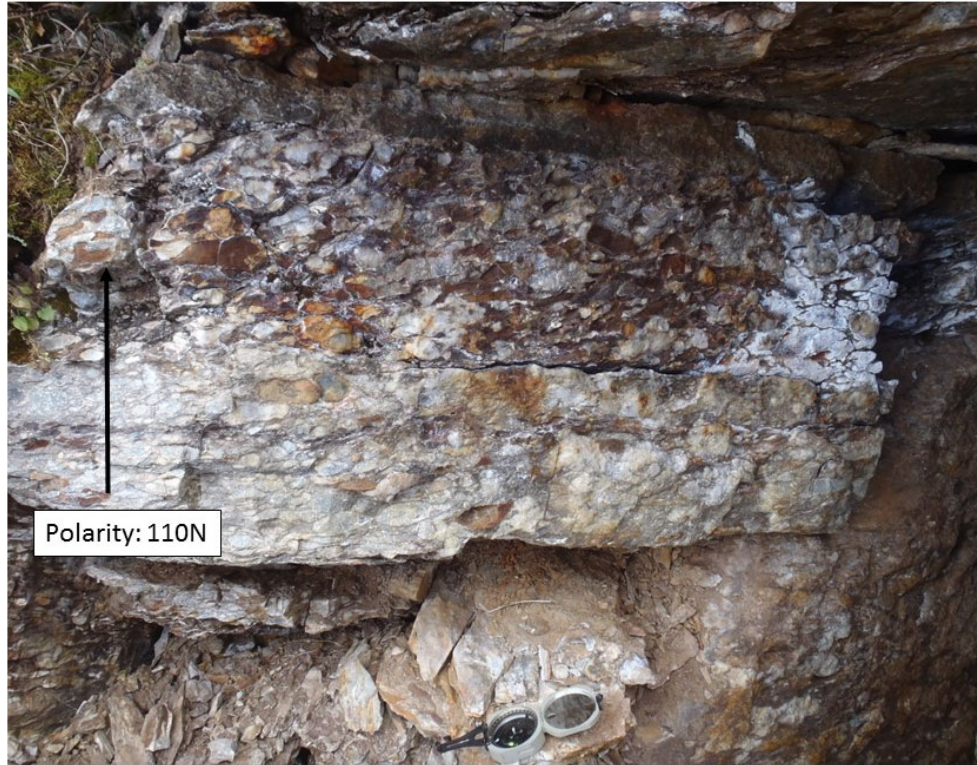
## **6.2 Property Geology**

The Central Allochthonous Belt includes the Koksoak Group formed by the Abner Formation, the Hellancourt Formation and the Baby Formation. Located in the central allochthonous belt of the Labrador Trough, the property is mainly composed of the Baby Formation. This formation extends over 250 km NS and can be divided in 3 different members, the lower, middle and upper members (Clark, 1988).

The lower member lies on top of the Abner Formation characterized by dolomites and located in the western part of the property. At the contact, the Abner and lower Baby are frequently interlayered with each other. The lower member is composed of chert beds at its base, overlain by mudstone and siltstone units.

The middle member of the Baby Formation includes the Baby iron formation which contains gold on the property and is the most common unit of the project. The Baby iron formation is observed in four different lithofacies: oxide, silicate, carbonate and sulphide- rich facies. Lateral facies variation make it difficult to correlate the different observed iron formations across the property. However, in general, the oxidized facies is observed in the eastern part whereas the carbonate and silicate facies are more common in the median and western part of the Trough. The sulphide rich iron formation is found sporadically in the western part of the Trough and lies on top of the sequence. It is difficult to estimate the exact thickness of the middle members of the Baby Formation mainly due to the presence of thrust faults, folding and by the presence of numerous gabbro sills.

The iron formation is overlain by the upper member of the Baby Formation which is a sequence of turbidites, quartzitic sandstone and phyllite. During the 2017 and 2018 campaign, several stratigraphic transects were completed over several areas of the property. The purpose of the transects was to confirm the polarity of the sedimentary sequence to support the 3D modelling, prior to the drillhole targeting. The most obvious polarity indicator was observed as a normal sorting in polygenic conglomerate of the median Baby formation indicating a polarity younging oriented towards 110N. Other indicators of normal sorting were observed in the carbonate iron formation near the Ferricrete showing.



**Photo 1: North of Noranda Ridge showing the conglomerate with the polarity to the East**



**Photo 2: OSK-KAN-18-013\_25.5m\_Normal sorting in iron formation**



**Photo 3: Bouma sequence with wavy lamination in Baby One More Time Area**

The transect and cartographic work also highlighted the sedimentary facies variation within the iron formation and mudstone units. Indeed, the graphitic and pyritic mudstone (black shale) units were not found to the east of Noranda Ridge Showing, and the grey mudstone (grey shale) transitions to a siltier facies with evidence of Bouma sequence structures (Photo 3). Moreover, the iron formation facies evolves from West to East, from to Carbonate, to Carbonate-Oxyde-Silicate, to Oxyde-silicate facies. According to model proposed by Klein (2005) for Paleoproterozoic iron formations, these observations suggest a transition from a proximal to distal environment from east to west.

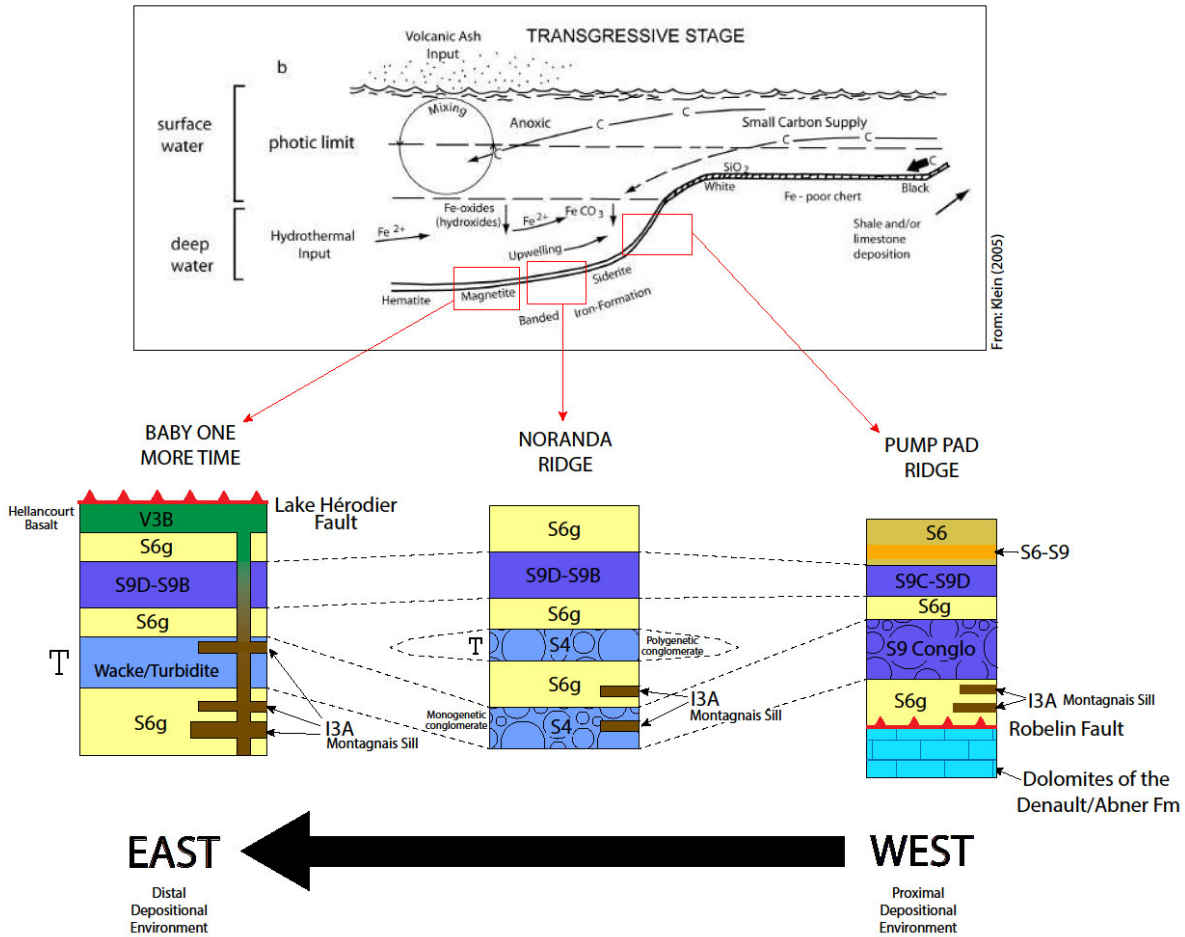


Figure 3: Figure modified from Klein (2005), showing the evolution of the stratigraphy from West to East

### 6.2.1 Property Structure

The deformation regime observed at the project scale can be related to two major compression events.

The first one is related to a dextral transpressive convergence oriented NE-SW and is referred to as “DI” in this report. This transpressive convergence regime is mentioned by many other authors during the last decades (Hoffman, 1989; Wardle et al., 1990; Corrigan et al., 2009) and explains the major fabric orientation in the Trough. Applied to a smaller scale, this deformation event explains the NNW-SSE overturned isoclinal folding in the Ferricrete Area as well as the overturned folding observed in the Pump Pad Ridge Area. In particular, the Pump Pad Ridge folding is characterized by an axial plan oriented N270/15 with a fold axis plunging to ESE. The axial plane appears to be deformed; it turns slightly to the south when moving eastward and turns to the north when moving westwards. This geometry can be explained by a transpressive convergence regime, which would have created a sigmoidal fold axis pattern with dextral movement along the thrust fault, as explained in the Woodcock and Schubert (1994) model. The geometry of the Pump Pad Ridge area must be catalyzed by the anisotropy between the big body of gabbro to the north and dipping under the E-W folding.



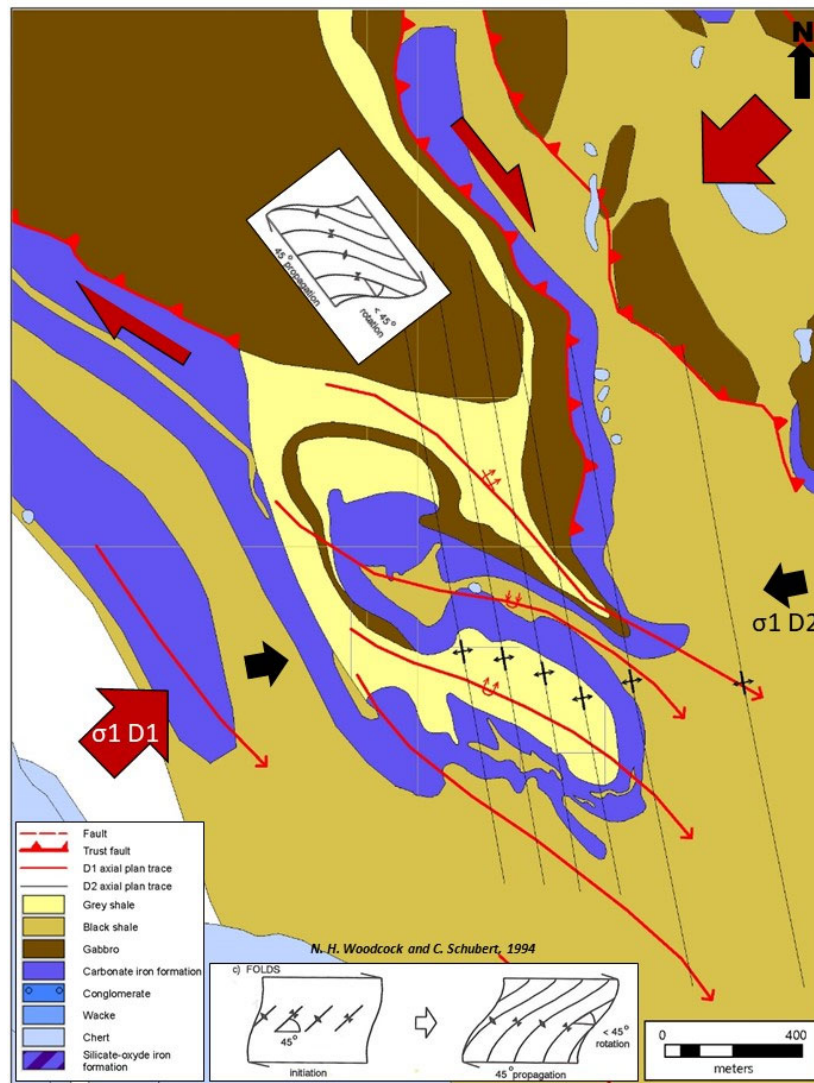


Figure 4. General structural setting in PPR area

The second deformation event is related to an E-W compression, and is referred to as “D2” in this report. This late event created open, penetrative folding oriented N350/80° with a fold axis that varies depending of the position relative to D1. The axial planes measured during the 2018 campaign were mostly attributed to D2 and are coplanar to the mineralized veins stock work. Figure 5 (below) shows the axial plan and the veins measured in 2018.

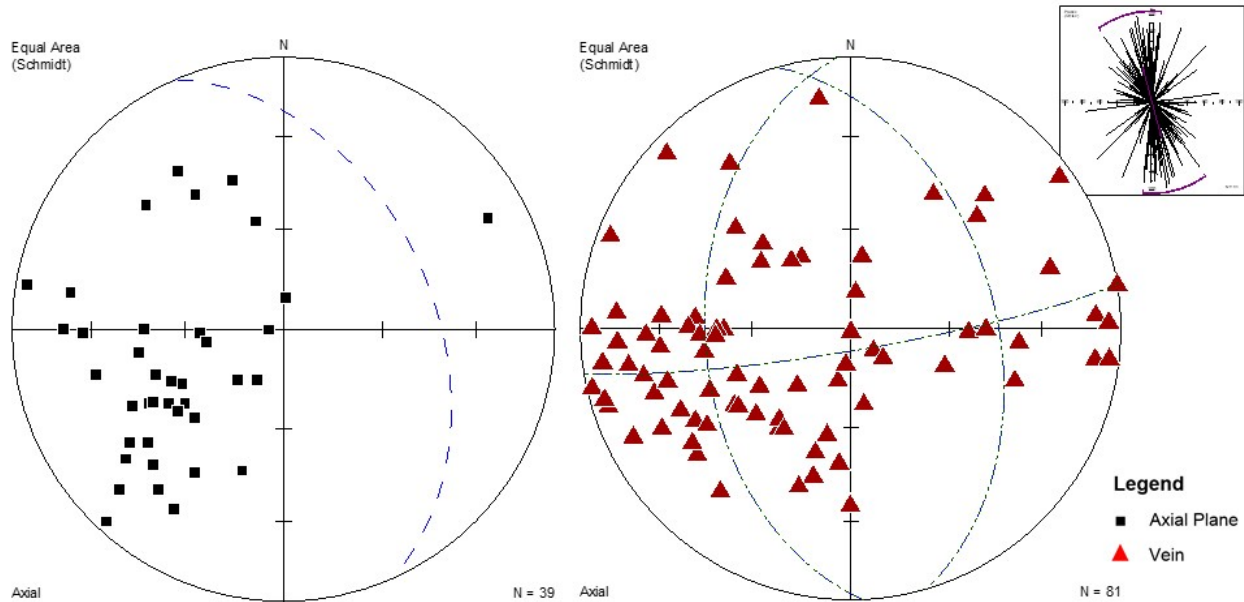


Figure 5. Axial plan and veins measured in the 23 drillholes of the 2018 drilling campaign.

Both deformation events can be observed in the stereographic projections of the 2018 drillhole. For example, the next figure shows that both D1 (east plunging folds) and D2 (NNW plunging folds) are present in hole OSK-KAN-18-007. The axial planes of the folding created by these two deformation events are represented by the two great circles. These observations were mostly made in the drillholes of the PPR area where the 2 deformations are perpendicular.

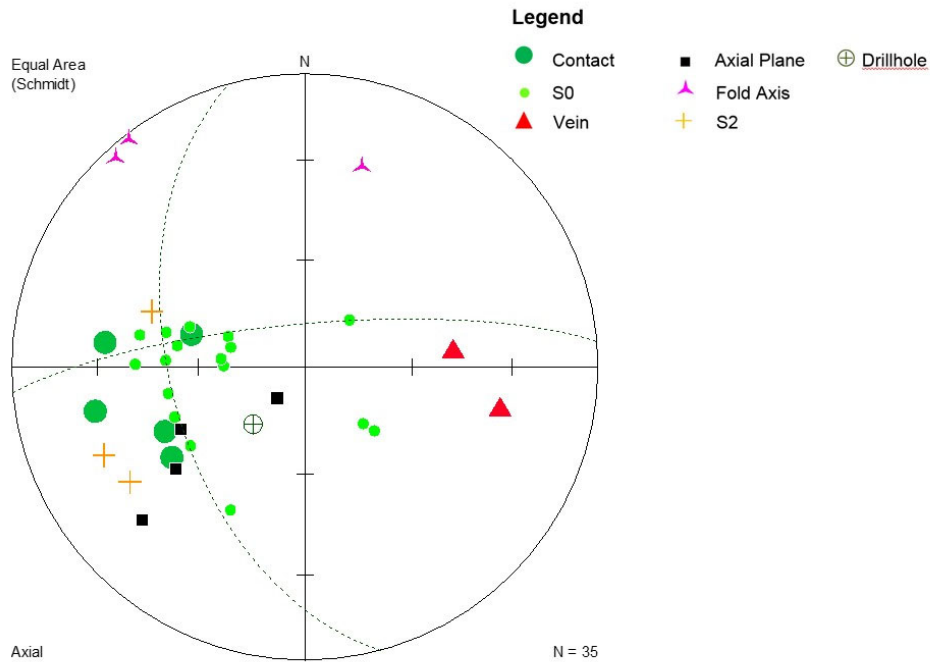


Figure 6. OSK-KAN-18-007 structural analysis, example of general structural features observed in 2018 drillholes.

### **6.3 Mineralization**

The Labrador Trough contains deposits typical of a Paleoproterozoic volcano-sedimentary belt developed on the margin of an eroded Archean continent following crustal rifting. In addition, several epigenetic deposits are related to the movement of hydrothermal fluids during tectono-metamorphic events associated with the formation of the orogeny. The type of deposits found in the orogeny is similar to types of economic deposits observed worldwide in rocks of similar age (Meyer, 1988).

Clark and Wares (2004) identified a total of 19 deposit types for the over 336 mineral deposits and showings located inside the Labrador Trough. Many of these deposits are classified as iron formation. The Koksoak Group which includes the Baby Formation is the host of base and precious metal in exhalative massive sulfides, magmatic Cu-Ni-EGP deposits, Mississippi valley type Pb-Zn, gold veins in Paleoproterozoic iron formation and Ag-Pb-Zn veins.

Historically, prospecting over the Kan area was mainly based on Zn-Cu-Pb massive sulphides mineralization. The Koke deposit located 26 kilometres north of the Kan area is a typical example of an exhalative massive sulphide mineralization. This polymetallic deposit is hosted in a graphitic to cherty mudstone unit from the Baby middle member in a fold hinge of a syncline. Massive sulphides found over the Kan area have a similar stratigraphic context. Mineralization is hosted in a strongly carbonatized and sericitized basalt and black shale. Massive sulphide present at surface was traced down in diamond drillholes to 400 metres at depth by Noranda in 2000 but appears to be thin (0.1 m to 1.2 m) although grades were very good. The polymetallic sulphide lens seems to have been stretched along the lineation suggesting an important structural control on the mineralization, just like the Koke deposit. Kan and Koke (1.06 Mt at 6.86 % Zn, 1.03 % Pb, 0.70 % Cu, 54.5 ppm Ag, 1.03 ppm Au.) are probably transitional between Besshi-type deposits and SEDEX-type deposits associated with local mafic volcanics within a sequence largely dominated by oceanic sedimentary rocks.

In the western part of the property, Pb-Zn veins were discovered in the dolomites of the Denault (Abner) Formation. These types of mineralization are associated with platform sedimentary rocks like dolomites and have similar characteristics with MVT deposits. The Abner and Riv. showings found on the property are characterized by centimetre to decimetre veins/veinlets of sphalerite and galena within dolomites. Impressive grab samples were collected by Noranda between 1990 and 2000 but drillholes on the best surface showings did not find any continuous economical grade zones of sulfide.

The discovery in 2011 by Rio Silver of a significant gold showing (Pump Pad Ridge) located 700 metres west of the original Kan deposit has changed the exploration focus of the property that was known for its VMS potential. The most obvious feature of the Pump Pad Ridge showing is the quartz-ankerite-chlorite-pyrrhotite vein stockwork with free gold. Work completed by Noranda over Pyrite Falls during the 1990s and at the beginning of 2000 has also proven the gold potential of the area. Several gold mineralization styles were observed in the area, indicating that the hydrothermal Au system can occur in different ways according to local rocks and conditions. Most of the gold found over the property is associated with the middle member of the Baby Formation and with most of the carbonate facies.

The Pyrite Falls showing is an example of the variation of the variety of gold mineralization style that is observed on the property. The replacement style mineralization observed on Pyrite Falls is probably the most interesting one in terms of tonnage. Some of the low-grade gold values are associated with clusters and disseminations of pyrrhotite inside the iron formation. Gold is also associated with more magnetic zones with less pyrrhotite suggesting that pyrrhotite is probably replacing magnetite. That zonation is evident over the outcrop where conductive (pyrrhotite) and magnetic zones are identified with the use of the BeepMat. It appears that these zones of sulphide + gold mineralization are related to sulfide-bearing veins, particularly in the northern part of the stripped zone.

Discovered in 2014 by a follow up on a B-Soils sample that return 5.6 ppm and channel sampled in 2015, the Winchester showing comprises an impressive quartz-ankerite-pyrrhotite-gold vein stockwork in a carbonate iron formation. It is similar to the Pump Pad Ridge showing, occurring at the same stratigraphic level of the iron formation 75m to the west. The iron formation on this showing is affected by stratabound early ankeritisation cut by quartz-ankerite-chlorite-pyrrhotite veins.

## **ITEM 7. DEPOSIT TYPES**

The focus of exploration is iron formation-hosted gold deposits associated with Paleoproterozoic iron formations similar to the Homestake gold deposit in the United States. In the Labrador Trough, this type of mineralization is preferentially hosted in the Baby Formation, which is composed of a turbidite sequence that includes two iron-rich horizons, an Algoma-type iron formation overlain by a sulfidic exhalite. Gold mineralization is mainly associated with quartz-ankerite-chlorite-pyrite/pyrrhotite veins and stockworks occurring in alteration zones composed of ankerite, chlorite and silice. Gabbro sills that are found commonly in the stratigraphic sequence adjacent to the iron formation are also locally mineralized.

## **ITEM 8. DRILLING**

The 2018 summer campaign consisted of an intensive drilling program. Overall, Osisko Mining drilled 23 NQ calibre holes, for a total of 5566.5 metres on the Kan property. The metres were drilled over Pump Pad Ridge (PPR) area, Ferricrete area, Pyrite Falls (PF) area and the corridor between Pump Pad Ridge and Pyrite Falls (PPR-PF corridor). Systematic sampling method was used, where 1-metre samples were taken in favorable lithologies and 2-metres samples in all other lithologies. A total of 3576 samples were taken and each drillhole was logged using systematic XRF and magnetic susceptibility measurements joined with a real time processing of structural measurement with stereographic projections and assessment of XRF data with striplogs.

Figure 7, presented below, shows the distribution of drillholes completed in 2018.

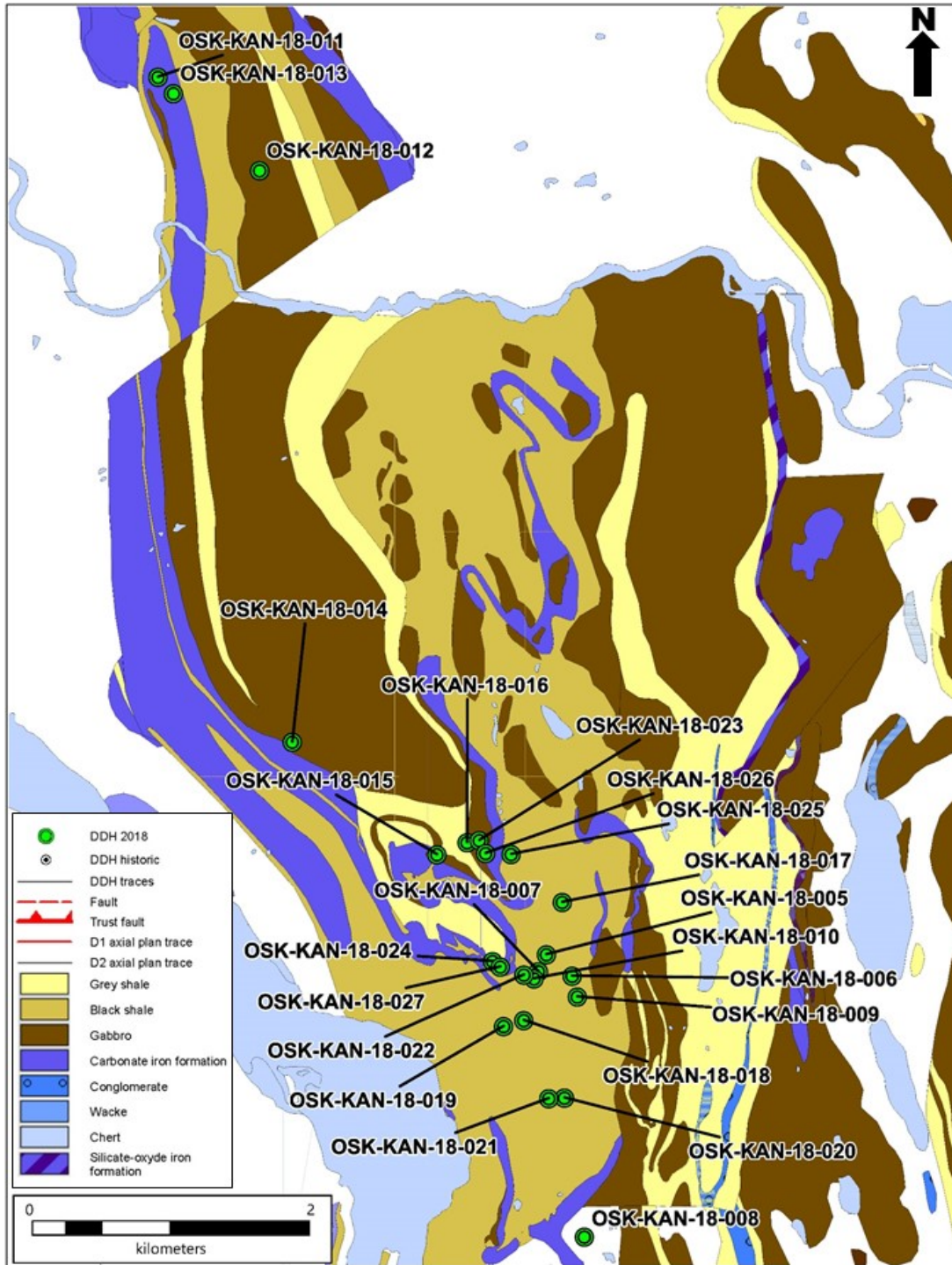


Figure 7: Overview of the drillholes locations, 2018 campaign

The results from this campaign are described below. The full drillhole logs are available in Appendix 3, with the analytical results and certificates of analysis of core samples in Appendix 4.

The specifications of the holes are shown below in Table 3.

Table 3: Summary of the 2018 drillhole specifications

Drillhole ID	Easting	Northing	Elevation	Azimuth	Dip	Final Depth
OSK-KAN-18-005	486863	6368393	112.7	210	-60	199
OSK-KAN-18-006	487048	6368241	136.7	220	-60	190
OSK-KAN-18-007	486805	6368273	101.0	220	-68	220
OSK-KAN-18-008	487136	6366396	95.1	270	-60	181
OSK-KAN-18-009	487085	6368094	136.0	250	-60	301
OSK-KAN-18-010	486774	6368222	105.2	230	-70	226
OSK-KAN-18-011	484069	6374599	173.5	270	-60	148
OSK-KAN-18-012	484800	6373938	101.8	270	-70	294
OSK-KAN-18-013	484180	6374483	171.4	350	-70	91
OSK-KAN-18-014	485035	6369896	131.1	225	-55	124
OSK-KAN-18-015	486075	6369100	167.2	250	-60	118
OSK-KAN-18-016	486292	6369185	163.0	250	-60	139
OSK-KAN-18-017	486977	6368763	139.0	250	-60	253
OSK-KAN-18-018	486700	6367927	95.7	250	-70	298
OSK-KAN-18-019	486555.0	6367885.0	92.5	250	-70	249
OSK-KAN-18-020	486993.0	6367379.0	96.9	250	-60	380
OSK-KAN-18-021	486880.0	6367375.0	95.0	250	-60	262
OSK-KAN-18-022	486701.0	6368249.0	105.0	100	-45	247
OSK-KAN-18-023	486380.0	6369200.0	167.0	262	-67	514.5
OSK-KAN-18-024	486490	6368370	127	305	-45	148
OSK-KAN-18-025	486536	6369099	168	270	-65	604
OSK-KAN-18-026	486434.0	6369108.0	168.0	270	-45	166
OSK-KAN-18-027	486531.0	6368308.0	122.0	305	-45	214

An overview of the drill holes locations and best intersections is shown in Figure 8 for the main PPR area, in Figure 9 for the PPR-PF Corridor and the Pyrite Falls area, and finally in Figure 10 for the Ferricrete area.

The cross-sections of the drillholes are presented in Maps 1 to 12.

A short overview of the different target areas is presented below:

#### **Pump Pad Ridge Area**

The holes OSK-KAN-18-005, 006, 007, 009, 010 and 022 were located in the Pump Pad Ridge Anticline area to test the hinge of the anticlinal fold at the south of the Pump Pad Ridge Synclinal fold. The best value returned in this area was obtained in hole OSK-KAN-18-007, with the highest intercept returned at 1.8 ppm Au over 7 metres including 5.20 ppm over 2m. This interval was returned in the ankerite facies of carbonated iron formation with stockwork

of quartz-ankerite-chlorite-pyrrhotite veins. This interval was not properly intercepted in the D1 fold hinge but probably near a D2 fold hinge. Two other drillholes in the same section (OSK-KAN-18-005 and 010) and targeted the anticlinal fold hinge, also returned few low grade values like 0.40 ppm Au over 4 m in OSK-KAN-18-005 and 1.00 ppm Au over 2m in OSK-KAN-18-010. These results were returned in the same stratigraphic level characterised by ankerite facies of carbonate iron formation. Holes OSK-KAN-18-006 and OSK-KAN-18-009 were also drilled to test whether the D1 anticlinal fold hinge turns towards the south. Another D2 fold hinge was intercepted but was overshot by hole OSK-KAN-18-009. These holes demonstrated that the antiform is thrust and dismembered.

Stereographic projection of the oriented structure measurements allowed the D2 deformation event to be related to the quartz veins stock work which are coplanar and/or in a conjugated veins system concentrated within fold hinges. In order to properly test the interpretation that the mineralization is controlled and concentrated in the D2 fold hinge, holes OSK-KAN-18-015 and -016 were drilled in the PPR Synform area. Their targets were, respectively, the D1 synclinal closure and the intersection of the synclinal closure with the D2-PPR mineralised trend. The best result was in hole OSK-KAN-18-016 which returned 3.05 ppm Au over 11.5 metres including 5.8 ppm Au over 3 metres. This hole confirms that the mineralized trend is oriented within the D2 deformation at N350 with a subvertical dip.

Holes OSK-KAN-18-023 and OSK-KAN-18-025 are located on the fold hinge of the PPR Synclinal and targeted the iron formation at depth, which hosts the Colt showing and is intersected in the PPR-PF corridor. Both of these holes were drilled in the continuation of the PPR-D2 hinge trend, in order to test the lower iron formation, which could have presented a deeper favourable lithology in which the gold-bearing fluids would have precipitated. The hole OSK-KAN-18-023 confirmed the continuity of the iron formation below the PPR syncline but over shot the D2 mineralized trend. The hole OSK-KAN-18-025 hit the D2 fold hinge trend in the iron formation-black shale package, but no values were returned. The quartz veins package related to the D2 antiform fold hinge was present in the lower stratigraphy, but were barren and without chlorite-ankerite-pyrrhotite.

Finally, holes OSK-KAN-18-024 and OSK-KAN-18-027 were drilled in the KTR Synform area, over the PPR-D2 trend and the Winchester-D2 trend respectively. The goal of these drillholes were to intercept the mineralized trends of the Pump Pad Ridge showing within the favourable iron formation lithology. The hole OSK-KAN-18-027 returned the best result in this area which is 4.22 ppm Au over 5 metres including 6.57 ppm Au over 3 metres.

Figure 8 below summarizes the best drillhole intercepts in the PPR area.

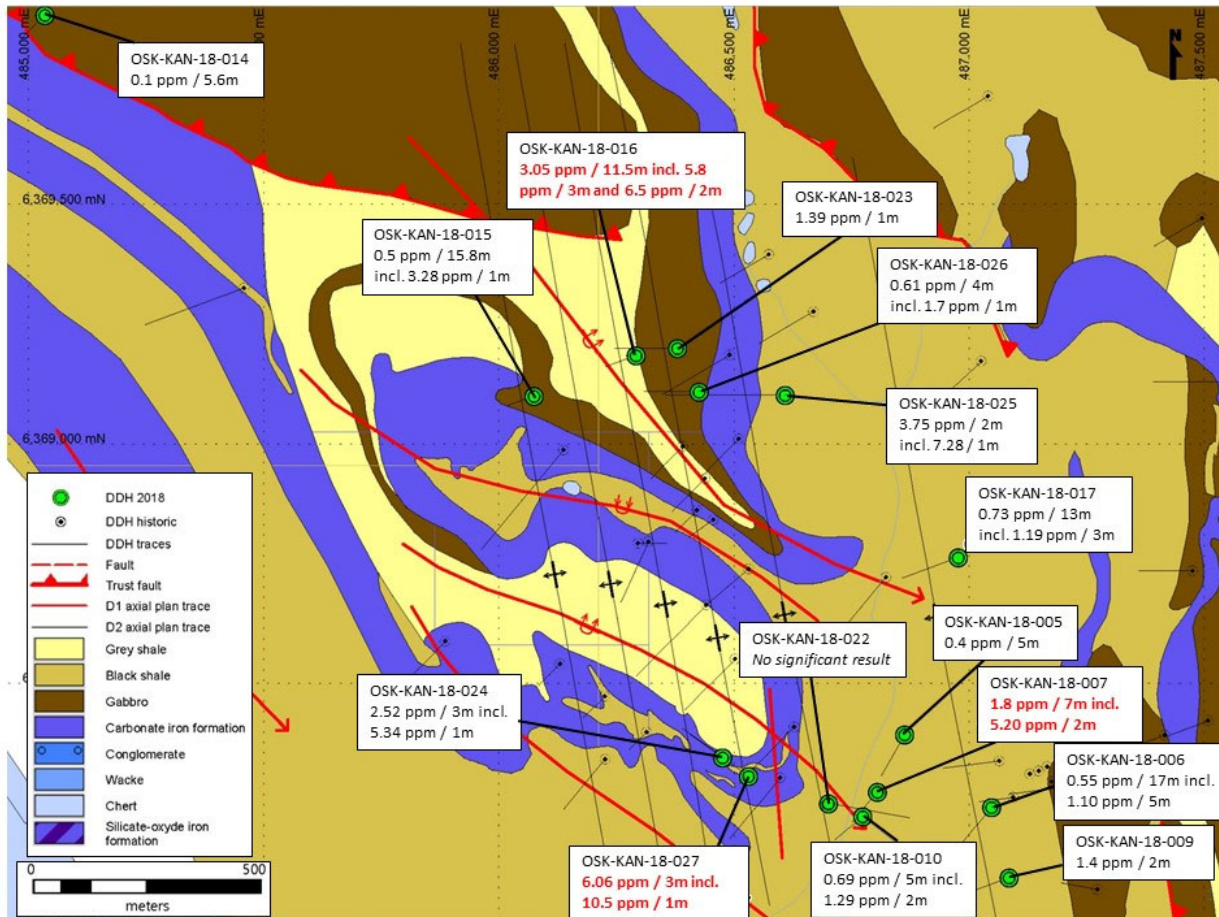


Figure 8: Overview of the highlights in the Pump Pad Ridge area

**PPR-PF corridor and PF area**

Two fences were drilled in the PPR-PF Corridor. The goal of these holes was to intersect the iron formation interpreted with the mag survey. The information from the drillholes will enable a better understanding of the D1 folding geometry in this area and allow for better placement of the drillholes at the intersection of iron formation within the D2 mineralised trend. As such, holes OSK-KAN-18-018 and -019 were drilled on the northern fence, which aimed to intersect a fold closure interpreted from the mag. OSK-KAN-18-020 and -021 were on the southern fence, and aimed to intersect a deeper fold closure, also interpreted from the mag. Those holes finally intercept the iron formation deeper than expected, in the same stratigraphic level of the outcropping iron formation located 400 metres west and which can be related to be the same outcropping on the Colt showing sector. This unit is also the same intercepted in the holes OSK-KAN-18-023 and OSK-KAN-18-026.

The hole OSK-KAN-18-008 was completed in the Pyrite Falls area. The hole intersected silicate facies iron formation, important in confirming the new geological interpretation of the area, in which the iron formation continues towards the south.

The Figure 9 below summarizes the best intercepts of this area.



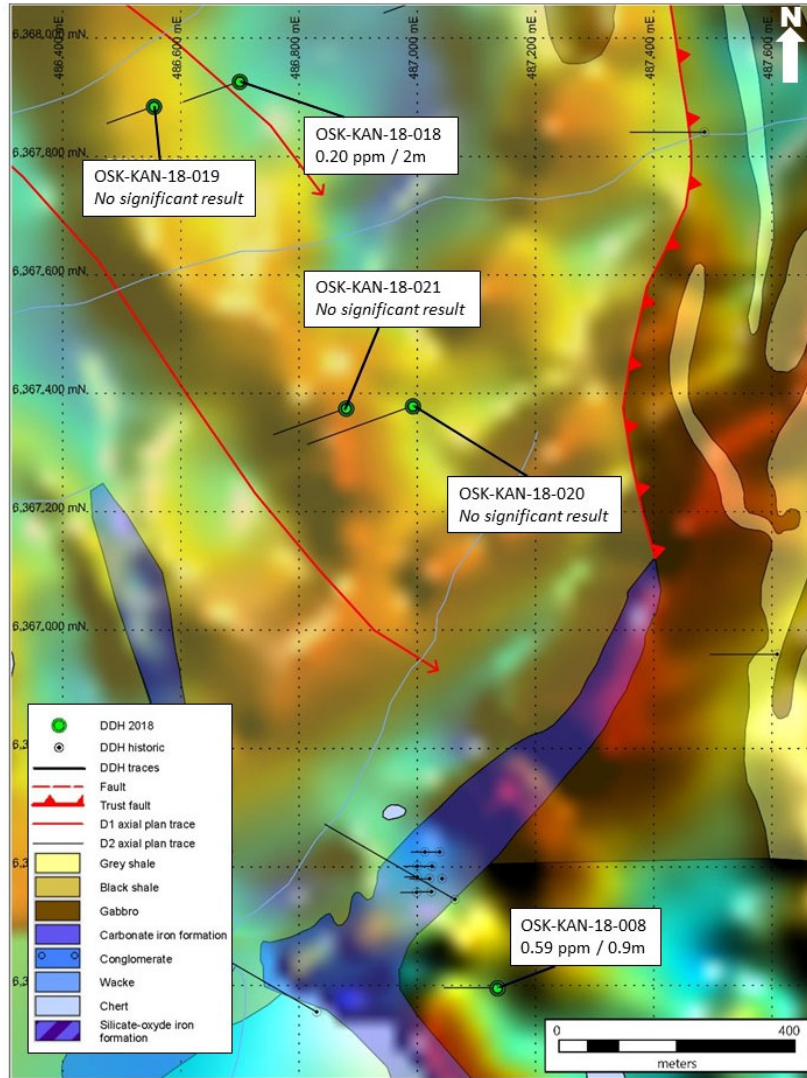


Figure 9: Overview of the highlights in the Pump Pad Ridge - Pyrite Falls corridor and Pyrite Falls area

**Ferricrete area**

Three holes were drilled in the Ferricrete sector, and Figure 10 (below) presents an overview of the best intercepts. Holes OSK-KAN-18-011 and -013 were drilled in Ferricrete north, close to the main showing. Hole OSK-KAN-18-011 intersects the D1 antiform fold hinge and confirmed the closure of the antiform without returning interesting values.

Hole **OSK-KAN-18-013** was drilled towards the north, directly against the measured D2 fold axis from the main Ferricrete showing. However, the veining stockwork under the saddle reef package of Ferricrete showing is oriented in the same bearing of the drillholes.

In the southern sector of Ferricrete, hole **OSK-KAN-18-012** was drilled to test the fold hinge of the synform that was deduced from the geophysics. The synform folding geometry was confirmed, the fold hinge localized and an intercept was obtained, which returned 1.45 ppm Au over 2 metres.

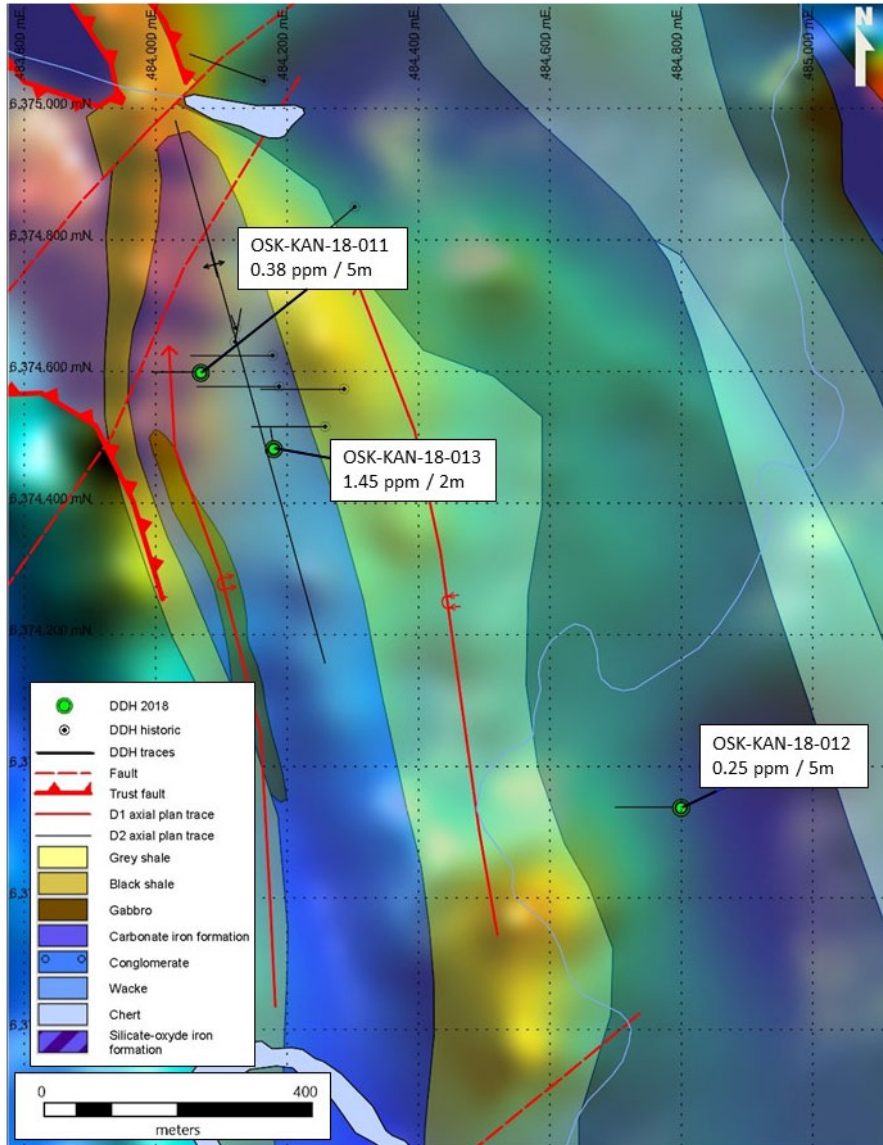


Figure 10: Overview of the highlights in the Ferricrete area

Summary of the best result obtained during the 2018 campaign are listed below in Table 4.

**Table 4: Best result, 2018 campaign**

Hole ID	From (m)	To (m)	Length (m)	Grade Au (ppm)
OSK-KAN-18-005	87	92	5	0.40
<i>including</i>	88	89	1	1.55
OSK-KAN-18-005	137	138	1	1.40
OSK-KAN-18-006	167	184	17	0.55
<i>including</i>	176	181	5	1.10
OSK-KAN-18-007	53	59.1	6.1	0.49
<i>including</i>	53	54	1	2.20
<b>OSK-KAN-18-007</b>	<b>71.0</b>	<b>78.0</b>	<b>7.0</b>	<b>1.80</b>
<i>including</i>	<b>74.0</b>	<b>76.0</b>	<b>2.0</b>	<b>5.20</b>
OSK-KAN-18-007	121.0	124.0	3.0	0.45
OSK-KAN-18-007	126.0	128.0	2.0	0.45
OSK-KAN-18-007	<b>152.0</b>	<b>154.0</b>	<b>2.0</b>	<b>3.90</b>
OSK-KAN-18-007	159.0	170.0	11.0	0.29
<i>including</i>	161.0	162.0	1.0	1.37
OSK-KAN-18-008	113.6	114.5	0.9	0.59
OSK-KAN-18-009	121.8	124.0	3.2	0.20
OSK-KAN-18-009	149.5	150.5	1.0	0.48
OSK-KAN-18-009	189.0	191.0	2.0	1.40
OSK-KAN-18-009	193.0	194.1	1.1	2.26
OSK-KAN-18-009	215.8	217.8	2.0	0.16
OSK-KAN-18-009	221.5	225.5	4.0	0.22
OSK-KAN-18-009	263.0	272.0	9.0	0.18
<i>including</i>	271.0	272.0	1.0	0.54
OSK-KAN-18-010	44.0	46.0	2.0	1.00
<i>including</i>	45.0	46.0	1.0	1.76
OSK-KAN-18-010	51.0	52.1	1.1	0.99
OSK-KAN-18-010	135.0	140.0	5.0	0.69
<i>including</i>	138.0	140.0	2.0	1.29
OSK-KAN-18-011	77.0	82.0	5.0	0.38
OSK-KAN-18-012	242.0	244.0	2.0	1.45
<i>including</i>	243.0	244.0	1.0	2.68
OSK-KAN-18-013	3.0	8.0	5.0	0.25
<i>including</i>	7.0	8.0	1.0	0.53
OSK-KAN-18-014	48.6	54.2	5.6	0.1
<i>including</i>	50.5	51.5	1.0	0.3
OSK-KAN-18-015	26.2	42.0	15.8	0.50
<i>including</i>	29.0	30.0	1.0	3.28
OSK-KAN-18-015	48.0	57.0	9.0	0.70

Hole ID	From (m)	To (m)	Length (m)	Grade Au (ppm)
<b>OSK-KAN-18-016</b>	<b>32.0</b>	<b>43.5</b>	<b>11.5</b>	<b>3.05</b>
<i>including</i>	<b>34.0</b>	<b>36.0</b>	<b>2.0</b>	<b>6.5</b>
<i>And</i>	<b>39.0</b>	<b>42.0</b>	<b>3.0</b>	<b>5.8</b>
OSK-KAN-18-016	46.0	48.0	2.0	1.4
<i>including</i>	47.0	48.0	1.0	2.47
OSK-KAN-18-016	65.0	76.0	11.0	0.9
OSK-KAN-18-017	157.0	158.0	1.0	1.45
OSK-KAN-18-017	164.0	177.0	13.0	0.726
<i>including</i>	168.0	169.0	1.0	1.55
<i>And</i>	171.0	174.0	3.0	1.19
OSK-KAN-18-018	19.0	21.0	2.0	0.20
OSK-KAN-18-023	381	382	1	1.385
OSK-KAN-18-024	17	20	3	2.52
<i>including</i>	18	19	1	5.34
OSK-KAN-18-024	70	73.25	3.25	0.146
OSK-KAN-18-024	92	97	5	0.331
OSK-KAN-18-024	126	129	3	0.669
<b>OSK-KAN-18-025</b>	<b>127</b>	<b>129</b>	<b>2</b>	<b>3.75</b>
<i>including</i>	<b>127</b>	<b>128</b>	<b>1</b>	<b>7.28</b>
OSK-KAN-18-025	143	145	2	1.64
OSK-KAN-18-025	149	154	5	0.547
<i>including</i>	149	150	1	1.48
OSK-KAN-18-025	157	159.5	2.5	0.46
OSK-KAN-18-025	162	166	4	0.43
<i>including</i>	162	163	1	1.135
OSK-KAN-18-025	174	177	3	0.11
OSK-KAN-18-026	90	94	4	0.61
<i>including</i>	90	91	1	1.7
OSK-KAN-18-026	106	110	4	0.33
OSK-KAN-18-026	113	117	4	0.16
OSK-KAN-18-026	136	137	1	0.78
OSK-KAN-18-026	143	144	1	0.195
OSK-KAN-18-026	146	151	5	0.16
<b>OSK-KAN-18-027</b>	<b>7</b>	<b>12</b>	<b>5</b>	<b>4.22</b>
<i>including</i>	<b>9</b>	<b>12</b>	<b>3</b>	<b>6.57</b>
OSK-KAN-18-027	23	26	3	0.82
OSK-KAN-18-027	119	122	3	0.23

The following section presents a description of each drillhole of the campaign.

### OSK-KAN-18-005

Holes OSK-KAN-18-005 and -007 are located on the same fence, 250m east of the surface expression of the Pump Pad Ridge Antiform hinge. Not far, historic drillholes returned 0.76 ppm Au over 5.87m, 1.5 ppm Au over 9m and 1.67 ppm Au over 3m. The goal of this fence was to define the geometry of the folding prior to targeting the fold hinge. The two holes intercepted the carbonate iron formation with up to 10% quartz-chlorite-ankerite-pyrrhotite veins. The holes also intercepted iron formation layers located internally in the black and grey mudstone. A third hole was drilled on the same fence, hole OSK-KAN-18-010, and is located 70m SSW of OSK-KAN-18-007 in order to circumscribe the fold hinge.

Oriented at 210N with a dip of 60°, hole OSK-KAN-18-005 began in black shale before intercepting two iron formation limbs, from 46.25 to 52 metres and from 74.4 to 93.85 metres, after which the hole continued in grey shale intercalated with internal iron formations and gabbro intervals. The hole was ended at 199 metres in gabbro, which means it terminated before going through the lower limb of the PPR iron formation antiform.

Several small intercepts were returned in this hole, notably **0.4 ppm Au over 5 metres** from 87 to 92 metres, including **1.55 ppm Au over 1 metre** from 88 to 89 metre, as well as **1.4 ppm Au over 1 metre** from 137 to 138 metres. Both cuts are hosted in carbonate iron formation.



Photo 4: OSK-KAN-18-005 from 80 to 92 metres, Overview of the carbonate iron formation which returned 0.4 ppm Au over 5 metres including 1.55 ppm Au from 88 to 89 metres.

### OSK-KAN-18-006

With an orientation of 220N and a dip of 60°, this hole targeted the fold hinge of the unit consisting of intercalated graphitic black mudstone with iron formation (informally called the “shaley iron formation” unit). This unit was identified in three hole during the 1994 campaign performed by Kennecott and returned several anomalous gold results, including 0.9 ppm Au over 6 metres including 1.77 ppm Au in hole K94-15, 1.9 ppm Au over 5 metres including 3.91 ppm Au over 2 metres in hole K94-09. A third hole, K94-14, was sampled during the first week

on the campaign and returned 0.11 ppm Au from 68.5 to 72 metres and 0.21 ppm Au from 98 to 104 metres.

The drill hole OSK-KAN-18-006 intercepted the “*shaley iron formation*” from 67 metres to 96 metres. The unit is strongly deformed with evidence of folding, faulting and boudinage. The unit contained 5% pyrite, 3% pyrrhotite and from 76 to 89m, 1% chalcopyrite and 1% sphalerite. The tension veining is concentrated in the iron formation beds and 5% pluri-decimeteric quartz-ankerite veins crosscut the unit. Afterwards, a unit of iron formation was intersected from 157.5 to 188.15 metres. The ankerite facies carbonate iron formation (Photo 6), which was intersected from 167 to 184 metres, returned **0.55 ppm Au over 17 metres** including **1.1 ppm Au over 5 metres**.



Photo 5: OSK-KAN-18-006 from 166 to 172 metres, Overview of carbonate iron formation, ankerite facies which returned a cut of 0.55 ppm Au over 17 metres.

### OSK-KAN-18-007

As mentioned previously, this hole is located on the same fence as hole OSK-KAN-18-005, 250m east of the surface expression of the Pump Pad Ridge Antiform hinge. Not far, historic drillholes returned 0.76 ppm Au over 5.87m, 1.5 ppm Au over 9m and 1.67 ppm Au over 3m. The goal of this fence was to define the geometry of the folding prior to targeting the fold hinge.

Hole OSK-KAN-18-007 is oriented at 220N and had a dip of 68°. It also began in black shale before intersecting a thickened iron formation from 50.65 to 80.2 metres which corresponds to the second iron formation limb from hole OSK-KAN-18-005. Afterwards, the drill hole continued into the grey shale, which is also intercalated with internal iron formations and gabbro intervals. This hole was able to go through the grey shale and reached the lower limb of

iron formation from 154 to 170.9 metres before continuing into black shale until the end of the hole at 220 metres. This hole was also notable as arsenopyrite was observed at several occasions within the carbonate iron formation, often associated with quartz veining. Because the hole was able to intersect both limbs of the fold, drillhole OSK-KAN-18-010 was planned along this fence and was drilled at 70 metres upsection of hole OSK-KAN-18-007 to target the thickened iron formation in the fold hinge.

Indeed, there were several intercepts were returned in this hole, moreso than in hole OSK-KAN-18-005, which supported the theory that the hinge is close. Notably, **0.49 ppm Au over 6.1 metres** from 53 to 59.1 metres, including **2.2 ppm Au over 1 metre** from 53 to 54 metres, as well as **1.8 ppm Au over 7 metres** from 71 to 78 metres, including **5.2 ppm Au over 2 metres** from 74 to 76 metres (Photo 7 and 8). Both cuts were returned in the same carbonate iron formation limb that returned 0.4 ppm Au over 5 metres in hole OSK-KAN-18-005. Further downhole, a cut was returned from 159 to 170 metres in the carbonate iron formation that forms the lower limb of the fold, **0.29 ppm Au over 11 metres** that includes **1.37 ppm Au over 1 metre** from 161 to 162 metres.

Finally, a cut of **3.9 ppm Au over 2 metres** was returned in an iron rich graphitic grey shale, from 152 to 154 metres. This grey shale was located at the contact with underlying lower limb iron formation.

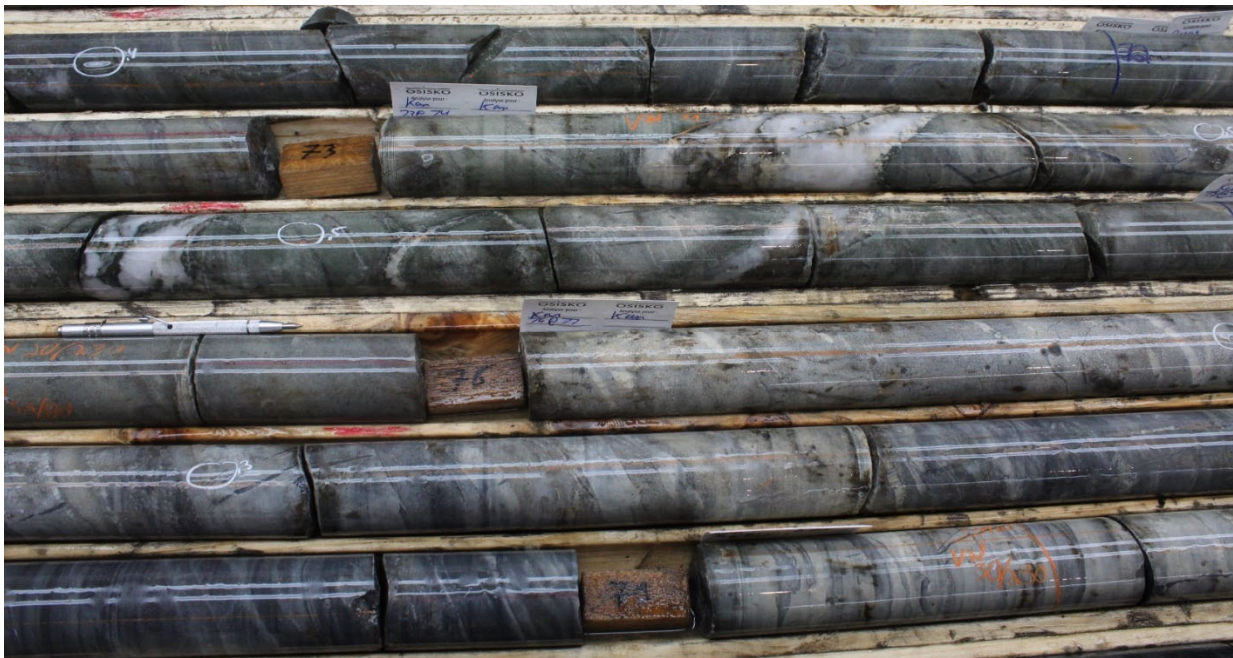


Photo 6: OSK-KAN-18-007 from 71 to 78 metres, Strongly altered iron formation with quartz-ankerite-chlorite veining which returned 1.8 ppm Au over 7 metres, including 5.2 ppm Au over 2 metres from 74 to 76 metres.

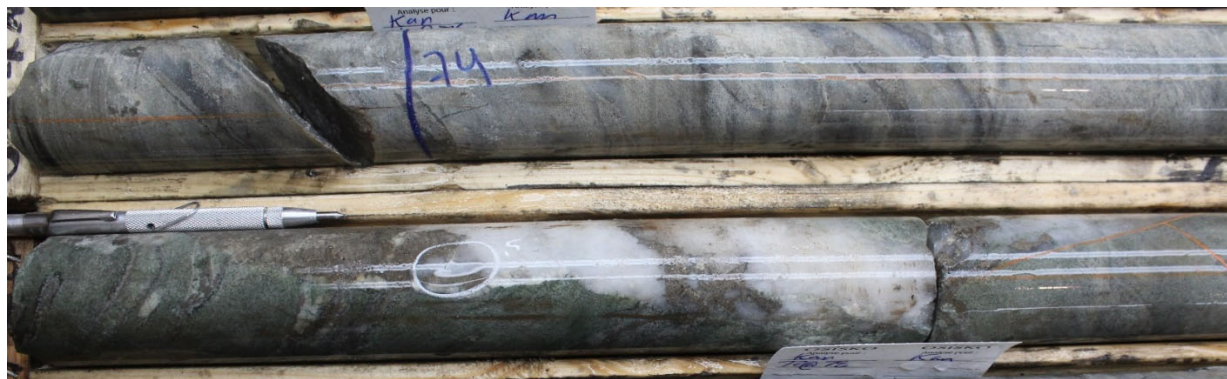


Photo 7: OSK-KAN-18-007 from 74 to 76 metres, Closeup of the alteration associated with quartz-ankerite-chlorite-pyrrhotite veining. Notice the pervasive alteration diffusing from the vein. Interval returned 5.2 ppm Au over 2 metres.

### OSK-KAN-18-008

Hole OSK-KAN-18-008 is located in the Pyrite Falls sector. Using the mag inversion and the data from the surface mapping, a re-interpretation of the geology in the area of Pyrite Falls was done during the workshop in April. The goal of the hole was to test whether the magnetic silicate-oxide iron formation continued south. This iron formation is a target because it likely hosts the Pyrite Falls showing and it returned 1.15 ppm Au over 6 metres including 4.39 ppm Au over 1 metre in last year's hole OSK-KAN-17-002. Furthermore, this hole targeted a section of the iron formation with a break in the mag, which can suggest demagnetization by alteration and conditions favorable for gold deposition. This hole was drilled at 270N with a dip of 60°.

The silicate-oxide iron formation was intersected in the hole from 81.7 to 85.7 metres (Photos 9), from 87.5 to 93.1 metres and from 102.7 to 115.3 metres. This demonstrates that the iron formation has some continuity in the sector. As well, the break in the mag can be explained by the thick gabbro that crosscut the iron formation from 115.3 metres downwards. Some sulfidation of magnetite was also observed locally, such as presented in Photo 10, taken at 85 metres, which can further explain the break in mag. For the moment, the presence of the gabbro is interpreted as a series of thrust folds.

From this hole, only one anomalous result of **0.59 ppm Au over 0.9 metre** was returned in the silicate-oxide iron formation at contact with gabbro from 113.6 to 114.5 metres.



Photo 8: OSK-KAN-18-008 from 81.7 to 85.6 metres, Close up of the silicate-oxide iron formation.



Photo 9: OSK-KAN-18-008 at 85 metres, Sulfidation of magnetite cluster in silicate-oxide iron formation.

### OSK-KAN-18-009

This drillhole is located southeast of the surface expression of the Pump Pad Ridge iron formation antiform. From the surface data, it was hypothesized that the plunge of the antiform turned towards Pyrite Falls to the south. With a dip of  $60^\circ$  and an orientation of 250N, this hole targeted the fold hinge of the antiform as it curved to the south, in order to better constrain its geometry. The hole began in a gabbro before falling into black shale at 65.7 metres. From 97.15 metres to 131.5 metres, the drill hole intersected an interval of “*shaley iron formation*” containing high levels of arsenic which includes a punctual pXRF value of over 5000 ppm As (Photo 10). From 147.3 metres until the end of hole at 301 metres, the drillhole intersects an alternance of black shale, iron formation and gabbro that are 20 to 30 metres in thickness. The black shale in this interval of alternance is highly folded with S-, Z- and M- parasitic folding.



As such, this interval is interpreted to be the fold hinge that was targeted, intercalated with small sills of gabbro between 196 and 199 metres as well as between 245.5 and 253.6 metres.

In terms of alteration and mineralization highlights, strong concentrations of arsenic was detected with the pXRF in the “shaley iron formation” between 121.8 to 131.5 metres, with trace amounts of arsenopyrite grains observed locally. Also, visible gold was observed in a quartz-ankerite-chlorite-pyrrhotite veinlet at 193.9 metres, in an interval of carbonate iron formation with strong chlorite alteration.

Several results were returned from this hole. From 189 to 191 metres, the carbonate iron formation returned **1.40 ppm Au over 2 metres** (Photo 11). This interval contained around 25% quartz-ankerite-chlorite veining. As well, the interval containing the visible gold returned **2.26 ppm Au over 1.1 metres** from 193 to 194.1 metres (Photo 12 and 13).



Photo 10: OSK-KAN-18-009 at 130.5 metres, “Shaley iron formation” with local values of arsenic up to 5000 ppm and observed arsenopyrite grain.



Photo 11: OSK-KAN-18-009 from 187 to 195 metres, Overview of the carbonate iron formation, siderite facies, which returned 1.40 ppm Au over 2 metres from 189 to 191 metres as well as 2.26 ppm Au over 1.1 metres from 193 to 194.1 metre.

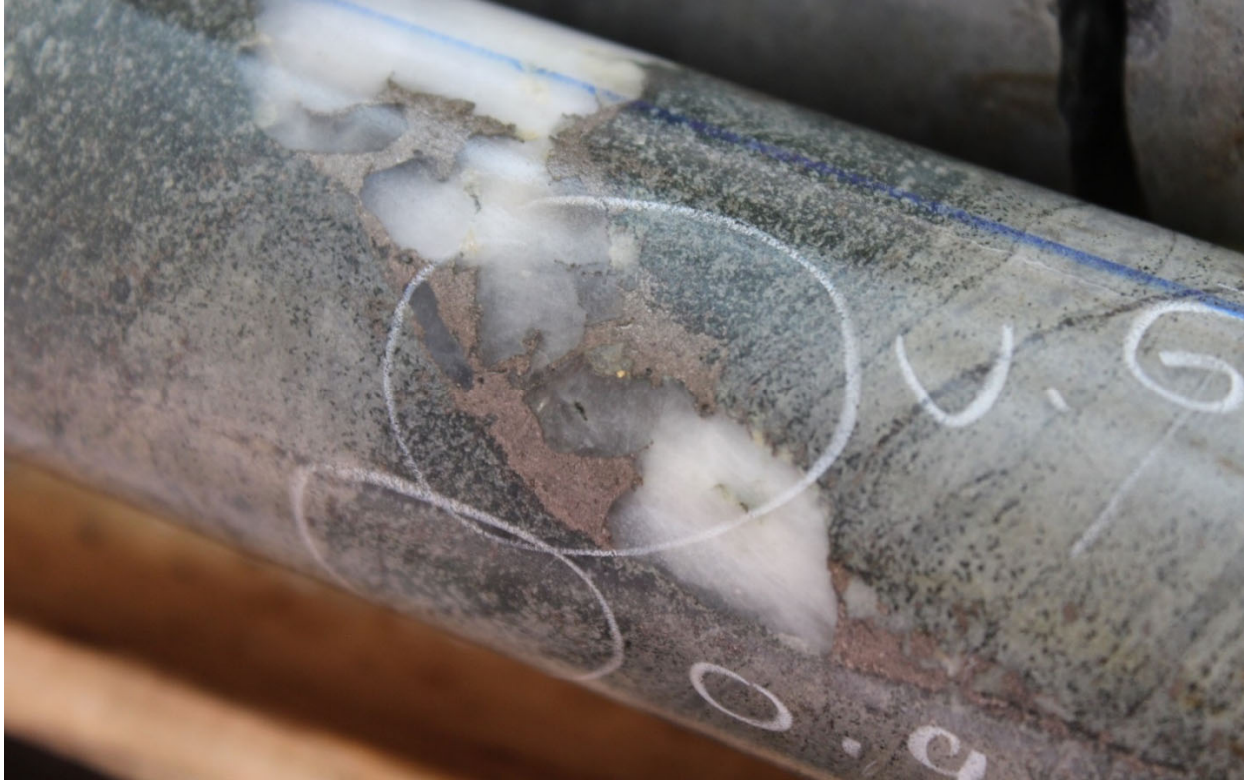


Photo 12: OSK-KAN-18-009 at 193.9 metres, Visible gold observed in a quartz-ankerite-chlorite-pyrrhotite veinlet in chloritized iron formation. Interval returned 2.26 ppm Au over 1.1 metres from 193 to 194.1 metre.

### OSK-KAN-18-010

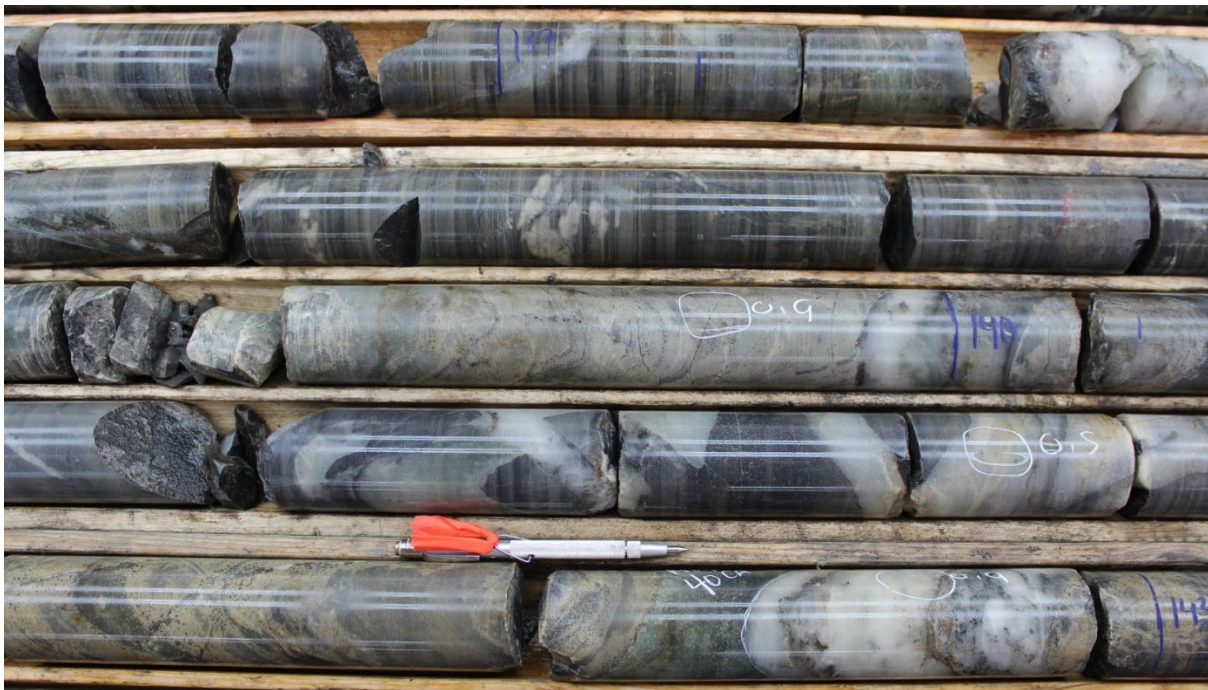
This drillhole is located on the same fence as OSK-KAN-18-005 and OSK-KAN-18-007 in the Pump Pad Ridge antiform area. As mentioned previously, this hole was located 70 metres up section of hole OSK-KAN-18-007 in order to hit the fold hinge in the iron formation. It was hypothesized that the iron formation would be thickened at the hinge, and a longer intersect could be returned. The hole was oriented at 230N and had a dip of 70°.

After a superficial 2 metres of gabbro, the drillhole intersects highly folded black shale from 15 to 30.8 metres where multiple Z- and S- as well as M- folding were observed. Afterwards, the drillhole goes through 26.5 metres of iron formation, in which an interval with moderate to strong ankerite, chlorite and quartz veining that contain a grain of visible gold at 51.8 metres. This iron formation returned a cut of **1.0 ppm Au over 2 metres** from 44 to 46 metres, as well as a cut of **0.99 ppm Au over 1.1 metres** from 51 to 52.1 metres where visible gold was observed (Photo 13). Afterwards, the drillhole goes through the grey shale as well as highly folded black shale package before hitting another interval of iron formation from 84 to 109.4 metres. This carbonate iron formation is mostly plain looking, with not many quartz veins or alteration. Following this, black shale and gabbro was intersected before returning into iron formation from 118.2 to 144.9 metres. This interval of siderite facies iron formation is more altered, with up to 8-10% quartz-ankerite veins and diffuse bleaching and chloritisation (Photo 14). Finally, after another package of grey shale and black shale, another interval of iron formation is intersected from 150.9 to 159.7 metres before going back into black shale. The hole was ended in black shale at 226 metres.

Overall, although there were a few internal black shale and gabbro intervals, the thickness of the interpreted hinge in the iron formation was good, from 84 to 144.90 metres. The cut returned in this zone was **0.69 ppm Au over 5 metres** from 135 to 140 metres, including **1.29 ppm Au over 2 metres** from 138 to 140 metres.



**Photo 13: OSK-KAN-18-010 at 51.8 metres, Visible gold observed in a quartz-ankerite-chlorite-pyrrhotite veinlet in chloritized iron formation.**



**Photo 14: OSK-KAN-18-010 from 137 to 143 metres, Overview of the pervasive bleaching as well as quartz-ankerite-chlorite veining associated with the carbonate iron formation that returned 0.69 ppm Au over 5 metres from 135 to 140 metres, including 1.29 ppm Au over 2 metres from 138 to 140 metres.**

### **OSK-KAN-18-011**

The original proposal of this hole was modified, so that the drillhole was drilled to the west at 270N with a dip of 60°, about 120 metres up section of historic hole K95-22. At the location of this historic fence (which includes holes K95-22 and FAU-16-007), the gabbro which is hypothesized to have destroyed the mineralization, does not outcrop. As such, the intended target was the preserved fold hinge of the main Ferricrete antiform, which produced the

showing. This hole was able to intercept the target, as a thickened carbonate iron formation was intercepted from 0.4 to 88.2 metres, with small internal gabbro dikes from 7.3 to 14.2 metres and again from 38.4 to 40.15 metres. Strong to moderate ankerite, sericite and chlorite alteration as well as bleaching was observed from 44 to 88.2 metres (Photo 15). A small intercept of **0.38 ppm Au over 5 metres** was returned in this altered interval, from 77 to 82 metres (Photo 16).

Though the structural measurements for this hole shows possible core rotation, the data is consistent with observations, such as the fact that the possible location for the hinge zone, at 84 metres, is consistent with the observed alteration. The main Ferricrete antiform would thus be shallowly plunging towards the SSW, and the hinge zone is shown to be preserved in the zone where gabbro does not outcrop.



Photo 15: OSK-KAN-18-011 from 55 to 69 metres, Overview of the bleaching, as well as ankerite-chlorite-sericite penetrative alteration in carbonate iron formation found in the hinge zone of the Ferricrete antiform.



Photo 16: OSK-KAN-18-011 from 73 to 83 metres, Overview of the interval that returned 0.38 ppm Au over 5 metres from 77 to 82 metres.

### OSK-KAN-18-012

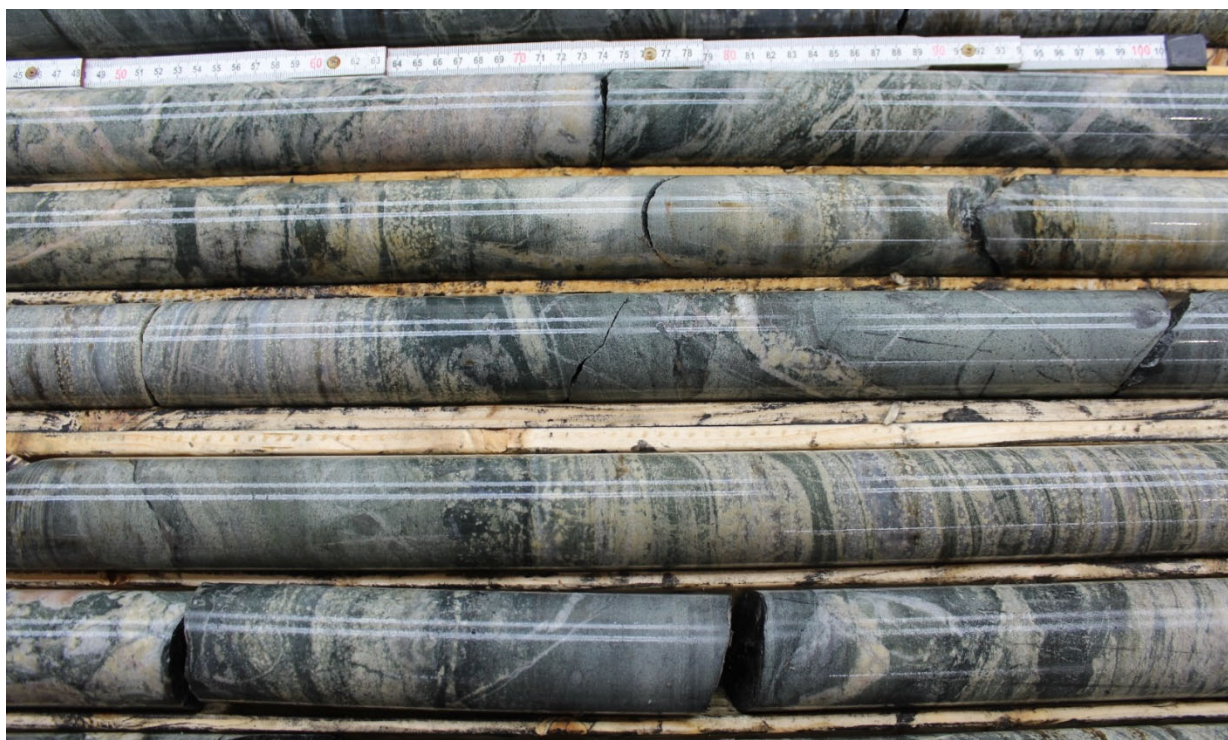
This hole is located in the southern part of Ferricrete. It was placed using geophysics (both the mag and VTEM) and surface structural data at the interpreted location of the Ferricrete synform fold hinge, under thick overburden cover. In the geophysics, the hole intersects the edge of a high mag and high conductive anomaly. The orientation of the hole was 270N and the dip was 70°.

Within the drilled hole, a thick interval of alternating gabbro and grey shale was intersected from 33 to 152.9 metres, before going into a chert and iron formation package from 152.9 to 155.7 metres and 155.7 to 172.5 metres respectively. An almost semi-massive interval of pyrrhotite-silicified chert was intersected from 172.5 to 176 metres, which could explain the conductive and magnetic unit that was targeted. Underlying this chert is another interval of iron formation from 176 to 247 metres.

Overall, from 152.9 to 247 metres, the thickened iron formation and chert package represents the fold hinge of the Ferricrete synform. Structural data from the oriented core as well as flat stratigraphy observed in the core both support this interpretation, as the hinge of a NNE plunging fold is likely located between 184 and 229 metres within the iron formation. This is consistent with the alteration that was observed in the hole, as moderate-strong epidote alteration, hematisation in chert and veins as well as chloritisation were observed in that interval (Photo 17 and 18). Assay results returned significant results in alteration associated with fold hinge. The interval from 242 to 244 metres returned **1.45 ppm Au over 2 metres**, including **2.68 ppm Au over 1 metre** from 243 to 244 metre.



**Photo 17: OSK-KAN-18-012 from 186.5 to 189.5 metres, Overview of the epidote alteration within the carbonate iron formation found in the hinge zone of the Ferricrete synform.**



**Photo 18: OSK-KAN-18-012 from 226 to 246 metres, Overview of the bleaching, as well as ankerite-chlorite-sericitic penetrative alteration in silicate iron formation found in the hinge zone of the Ferricrete synform and associated with the returned cut of 1.45 ppm Au over 2 metres.**

### **OSK-KAN-18-013**

This hole is located 150 metres south of the Ferricrete showing, drilling directly against the fold axis at 350N with a dip of 70°. This hole targets the mineralization of the showing in the plunge of the fold axis. This hole tests the hypothesis that the Ferricrete showing might not be located

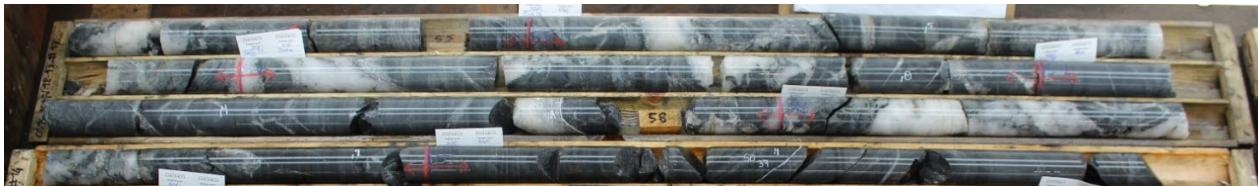
in the major fold hinge but in a related parasitic fold. The best drillhole results for the Ferricrete showing is 5.9 ppm Au over 6 metres in historic hole K95- 21.

Hole OSK-KAN-18-013 intersected the ankerite iron formation from 2 to 72 metres (Photo 19) and from 78 to 84 metres. This unit contained up to 25% of quartz-ankerite-chlororite-pyrrhotite veins on 5 metres from 54 to 59 metres (Photo 20), which can be correlated with the showing's veining.

Significant results were returned at the beginning of the hole, in the first intersected iron formation. A cut of **0.25 ppm Au over 5 metres** from 3 to 8 metre, including **0.53 ppm Au over 1 metre** from 7 to 8 metre.



**Photo 19: OSK-KAN-18-013 from 3 to 10 metres, Overview of the ankerite facies, carbonate iron formation which returned 0.25 ppm Au over 5 metres.**



**Photo 20: OSK-KAN-18-013 from 54 to 59 metres, Overview of the ankerite iron formation with high density of quartz veins.**

### **OSK-KAN-18-014**

This hole is located 35 metres northeast of the Colt showing, which returned 57 ppm, 14 ppm and 7 ppm Au in grab samples. The purpose of the hole was to test the continuity of both the mineralization and the grade at depth. Drilled at 225N with a dip of 55°, the hole began in a gabbro and rapidly fell into the iron formation at 48.6 metres. In the first interval of iron formation from 48.6 to 54.2 metres, a strong penetrative sericite-chlorite alteration affected the unit. The iron formation contained 2% magnetite showing partial replacement by pyrrhotite. This interval presents a saccharoidal texture and could possibly be oxide chert beds (Photo 21). The results from this interval returned **0.1 ppm Au over 5.6 metres**, including 0.3 over 1 metre from 50.5 to 51.5 metre.

From 54 to 124 metres, the hole intersects an alternance of black shale and iron formation with no alteration. This same package was intersected in hole K95-20, located 500 metres southeast, which did not return any interesting results. As such, the hole was ended.



Photo 21: OSK-KAN-18-014 at 52.5 metres, Closeup of saccaroidal iron formation (possibly oxide chert?) with magnetite and pervasive pyrrhotite.

### OSK-KAN-18-015

This hole is located 50m to the east of the surface expression of the PPR synform (formally named the Wolf Lake synform), with an orientation of 250N and a dip of 60°. The hole targets the shallow fold hinge and attempts to test the 2016 trench values, which returned 1.4 ppm Au over 25 metres including 5.87 ppm Au over 3 metres. Starting in the mudstone and the gabbro, the hole intersects a 12-metre quartz-chlorite vein with traces of pyrrhotite at the contact between gabbro and underlying iron formation. From 22.2 to 64 metres, the ankerite facies, carbonate iron formation contained 5% of quartz-ankerite±chlorite±pyrrhotite veins with the vein density increasing locally up to 15% in the 10-metre interval from 26 to 36 metres. Several visible gold grains were observed at 29.8 metres in this kind of quartz-ankerite-chlorite-pyrrhotite veins (Photo 22).

The interval from 26.2 to 42 metres returned **0.5 ppm over 15.8 metres**, including **3.28 ppm Au over 1 metre** where visible gold was observed. Another cut returned from this hole is located from 48 to 57 metres, at **0.7 ppm Au over 9 metres**.





Photo 22: OSK-KAN-18-015 at 29.8 metres, Ankerite iron formation with 15% of quartz-ankerite-chlorite-pyrrhotite veins with several visible gold grains.

### OSK-KAN-18-016

This proposition is located on the PPR Synform, in line with the D2 trend, to the north of PPR. Its orientation was 250N, and the dip was 60°. The hole began in grey shale from 13 to 22.1 metres before intersecting a short interval of gabbro from 22.1 to 30 metres. It then intersected iron formation from 30 to 59.35 metres. This iron formation shows moderate penetrative chlorite alteration, as well as strong ankerite and chlorite alteration in veins from 32 to 43.5 metres (Photo 23). This is also the interval which returned the cut of **3.05 ppm Au over 11.5 metres** (Photo 24). Afterwards, the hole went through a small interval of black shale before going back into a second limb of iron formation from 60.1 to 110.25 metres. Though visible gold and moderate chlorite alteration and quartz-ankerite veining was observed in this iron formation from 65 to 76 metres, the gold values returned was **0.94 ppm Au over 11 metres**. The hole was ended in grey shale at 139 metres, which was cross cut by a gabbro from 119.15 to 132.4 metres. The hole was important in demonstrating the continuity of the D2 mineralised trend 300 metres NNW of Pump Pad Ridge.

Other significant results that were returned from this hole include **1.39 ppm Au over 2 metres** from 46 to 48 metres and **0.36 ppm Au over 2 metres** from 81 to 82 metres. These two intervals seems to be associated with the same alteration packages as the cuts of 3.05 ppm Au over 11.5 metres and 0.94 ppm Au over 11 metres respectively. However, they are hosted within the siderite facies of the carbonate iron formation, which seems to be a less favorable host.

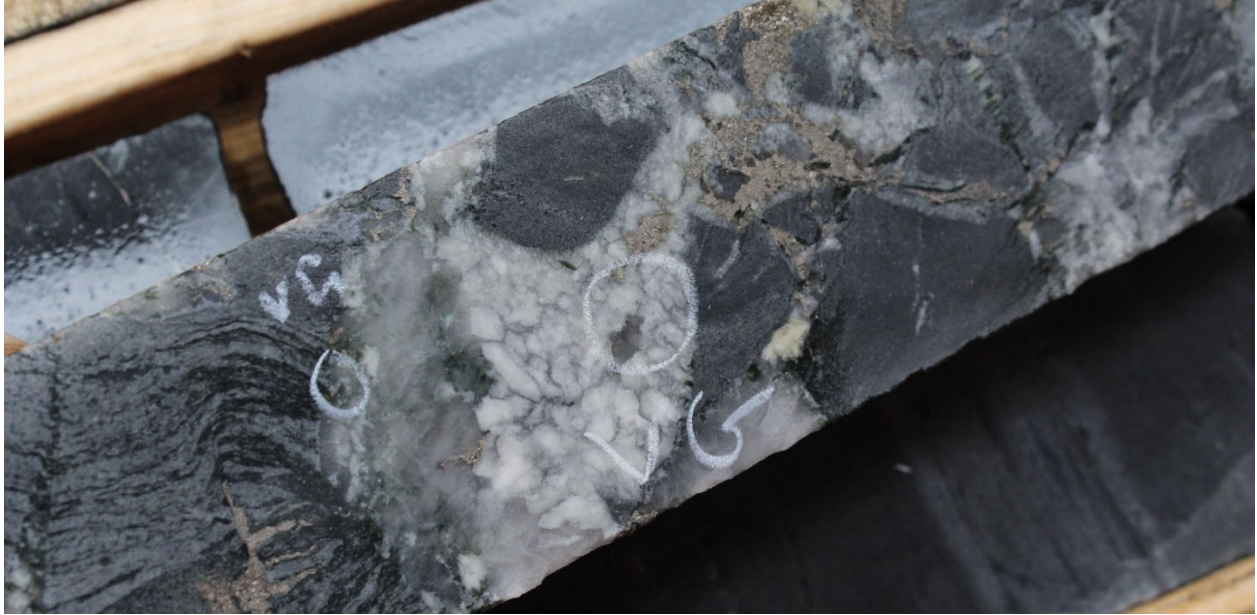


Photo 23: OSK-KAN-18-016 at 41.8 metres, Closeup of gold-bearing quartz-ankerite-chlorite-pyrrhotite veins.

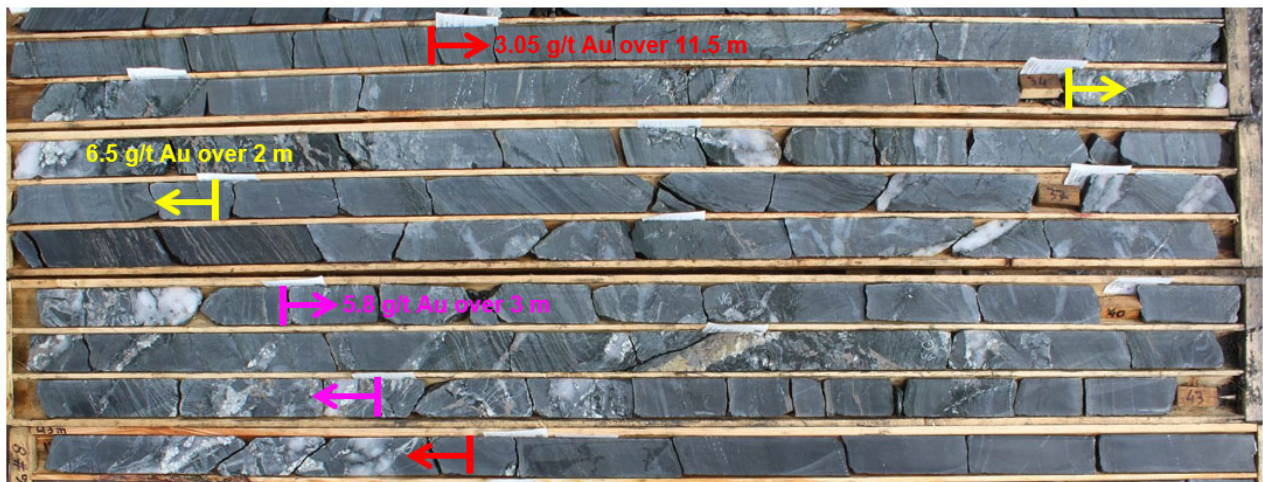


Photo 24: OSK-KAN-18-016 at 32 to 45 metres, Closeup of interval which returned gold values.

### OSK-KAN-18-017

This hole is located to the northeast of PPR antiform and, with an orientation of 250N and a dip of 60°, targets the Chainlake antiform. This hole began in black shale and intersects a weak to moderately veined carbonate iron formation from 29.5 to 57.4 metres before going back into black shale from 57.4 to 154.6 metres. Another carbonate iron formation is cross cut from 154.6 to 185.5 metres, and changes from ankerite to siderite facies at 177.3 metres. This ankerite facies carbonate iron formation contained 10% quartz-ankerite-chlorite-pyrrhotite veining from 164 to 169 metres, in which visible gold was observed at 168.6 metres. The interval from 164 to 173 metres returned results of **0.62 ppm Au over 9 metres**, including **1.54 ppm Au over 1 metre** from 168 to 169 metres where visible gold was observed (Photo 25), as well as **1.24 ppm Au over 2 metres** from 171 to 173 metres.

The hole was closed in grey shale at 253 metres, which was cross cut by gabbro from 196 to 207.6 metres.



Photo 25: OSK-KAN-18-017 at 167 to 169 metres, Closeup of gold-bearing quartz-ankerite-chlorite-pyrrhotite veins.

### OSK-KAN-18-018

This hole is located on a fence in the northern part of the PPR-PF Corridor, about 900m to the southeast of the main PPR showing. The goal of this hole was to test the stratigraphy and to better constrain the fold geometry in the favorable corridor between the Pump Pad Ridge and Pyrite Falls showings. This would allow for the targeting of potential thickened hinge targets within the mineralised D2 trends. This hole in particular was located over a potential fold hinge identified in the surface magnetics.

Hole OSK-KAN-18-018 began in shaley iron formation until 25.3 metres and continued in black shale until 164.4 metres. A cherty interval was intersected from 164.4 to 170.8 metres. This was interpreted to be a transitional unit between the Fe-poor chert and iron formation. Afterwards, the black shale continued until 210.5 metres. Only a small interval of iron formation was intersected between 210.5 and 218.5 metres, before going into grey shale until the end of hole at 298 metres. The thickness of the iron formation indicates the drillhole has only intercepted the limb of the iron formation. From the lack of alteration in the iron formation, the D2 trend was not intersected as well.

### OSK-KAN-18-019

This drillhole is located 125 metres down section of hole OSK-KAN-18-018. It aims to intersect the hinge of the iron formation using the structures measured from that hole. The first encountered lithology was black shale, until 152 metres, which is cross cut by a small sliver of chloritized and ankeritized gabbro from 69.2 to 72.2 metres. From 152 metres downwards, the drillhole intersects an alternance of iron formation and grey shale, with the iron formation intervals from 152 to 164 metres, from 170.1 to 175.3 metres and from 210.7 to 216.2 metres. The hole ended in grey shale at 247 metres. From the structural analysis as well as the presence of grey shale underlying the iron formation, only the limb of the D1 fold was intersected. The D2 trend was intersected, but not in the favourable unit, as quartz-ankerite veining in the D2 axial plane within the grey shale (Photo 26). No significant result was returned in this drillhole.



Photo 26: OSK-KAN-18-019 from 187 to 187.5 metres, Quartz-ankerite vein injected into grey shale following D2 axial plane.

### OSK-KAN-18-020

Hole OSK-KAN-18-020 is located on the southern fence in the PPR-PF Corridor. This fence targets a second, deeper fold interpreted from the airborne magnetics. It is located just at the edge of a high magnetic anomaly in the mag inversion. This hole began with several intervals of gabbro, which explains the low mag next to the anomaly. From 19 to 70.8 metres and 79.2 to 115.4 metres, the drill hole intersected gabbro which was hosted in black shale until 224.8 metres. An interval of shaley iron formation was then intersected from 224.8 to 235 metres, followed by more black shale from 235 to 271.2 metres. Finally, the iron formation was intersected from 271.2 to 311.5 metres and from 320 to 329.3 metres, with grey shale between from 311.5 to 320 metres. Afterwards, black shale is intersected from 329.3 to 332.3, before once again going into iron formation from 332.3 to 348.5 metres. An interval of grey shale is then intersected before going into iron formation again, from 363.4 until the end of the hole. Though the iron formation is thick, it does not present much alteration or veining.

We were unable to go through the iron formation at the end of the hole, due to lost tubing that kept breaking the drill bits. After the second drill bit broke back to back, the hole was closed at 380 metres, and assay results did not return any significant values.

### OSK-KAN-18-021

This drill hole was located 100 metres upsection of hole OSK-KAN-18-020. This hole aimed to intersect the iron formation at a lesser depth. Furthermore, the planned drillhole went through a high magnetic and conductive anomaly. Once again, the hole began in an alternance of black shale and gabbro from 15 to 159.5 metres, at which point a shaley iron formation is intersected from 159.5 to 172 metres. Another short interval of black shale is intersected before going into iron formation from 189 to 223.3 metres, before intersecting another interval of black shale until 227.5 metres. From there, another intersection of iron formation was drilled, from 227.5 to 248.4 metres, before intersecting another grey shale from 248.4 to 260.2 metres. The end of the hole is characterised by iron formation from 260.2 to 262 metres. The iron formation that was intersected in this drill hole is unaltered, though thick. Furthermore, it presents a conglomeratic facies (Photo 27). This particular facies of iron formation helped us to determine that it is the westernmost iron formation that folds back east to be intersected in these drillholes, and not the iron formation from PPR/KTR.



Photo 27: OSK-KAN-18-021 at 228.6 metres, conglomeratic facies of the iron formation intersected in the southern fence of PPR-PF Corridor.

### OSK-KAN-18-022

This drill hole is oriented 100N and is drilled at 45°. It is located close to drillhole OSK-KAN-18-010, in order to maximise the intercept from holes OSK-KAN-18-010 and -007, and to resolve continuity issues. The drillhole began in black shale before quickly going into the iron formation at from 39.6 to 58.7 metres. As such, the iron formation is not much thicker than the one intercepted in hole OSK-KAN-18-007, even though the drilling angle is much different. After this first iron formation intercept, an alternance of grey shale and gabbro is intersected between 58.7 and 153.85 metres, before intersecting another iron formation from 153.85 to 161.4 metres, followed by an alternance of black shale and shaley iron formation, the latter of which goes from 180.3 to 182.3 metres. The black shale is underlain by gabbro from 185.5 to 201.8 metres. From 201.8 to 208.9 metres, we intersect decimetric alternances of grey shale, iron formation and gabbro, injected with 20% quartz-ankerite-chlorite-sericite-pyrrhotite veins, which probably represents a antiformal fold hinge that was dismembered by gabbro sill intrusion (Photo 28). Finally, the hole was ended in carbonate iron formation, siderite facies, unaltered at 247 metres. Unfortunately, no significant results was returned from this drillhole.

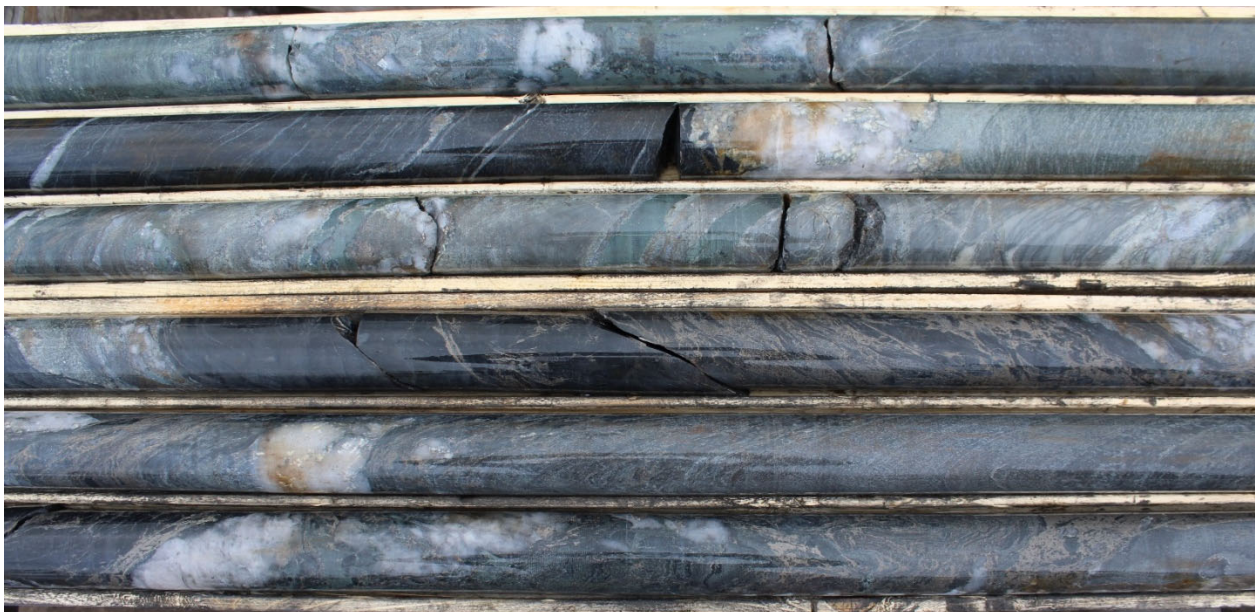


Photo 28: OSK-KAN-18-022 at 201.8 to 208.9 metres, mineralized zone consisting of decametric intervals from gabbro, iron formation, black shale, grey shale. Probably dismembered F1 antiformal fold hinge.

**OSK-KAN-18-023**

This proposition is located on the PPR Synform, to test the lower stratigraphy in line with the D2 trend north of PPR. The hole intersected an alternating grey shale and gabbro from 12 metres to 199.3 metres. A massive body of gabbro was intersected from 199.3 to 355 metres. This gabbro is heterogeneous with variation in facies ranging from blue quartz diorite, massive medium grained to coarse grained and phenocrystic facies. The distribution of the facies in the interval suggests that the gabbro could be folded into an antiform, with the blue quartz eyes diorite facies at the top of the stratigraphic sequence. From 355 to 515 metres, the hole intersected a package consisting in alternating black shale, grey shale and carbonate iron formation. The iron formation is mostly homogeneous and bedded with 10-15% of cherts bands. The iron formation contains 5-8% of quartz-ankerite±chlorite±pyrrhotite and locally up to 30% from 380 to 383 metres (Photo 29). From 478 to 484 metres, a conglomeratic texture with quartz and cherts clasts is observed. This unit can be correlated to the one observed in outcrop located about 1 kilometre west of the drillhole's collar.

The hole intersected many late D2 fold hinges. These fold hinges are oriented at roughly N350 and dipping steeply between 80 to 90 degrees and were intersected near 30m, 110m, 193m, 230m and 380m. This last fold hinge returned a cut of **1.385 ppm Au over 1 metre from 381 to 382 metres**. These fold hinges were interpreted with the presence of parasitic folding and local high density of veining (Photo 30), correlated with subparallel fractures concentrated in the fold hinge and coaxial with D2 axial plane.



Photo 29: QZ-ANK-CHL-PO veins hosted in carbonate iron formation, at an interpreted fold hinge returning 1.385 ppm Au over 1 metre from 381 to 382 metres.

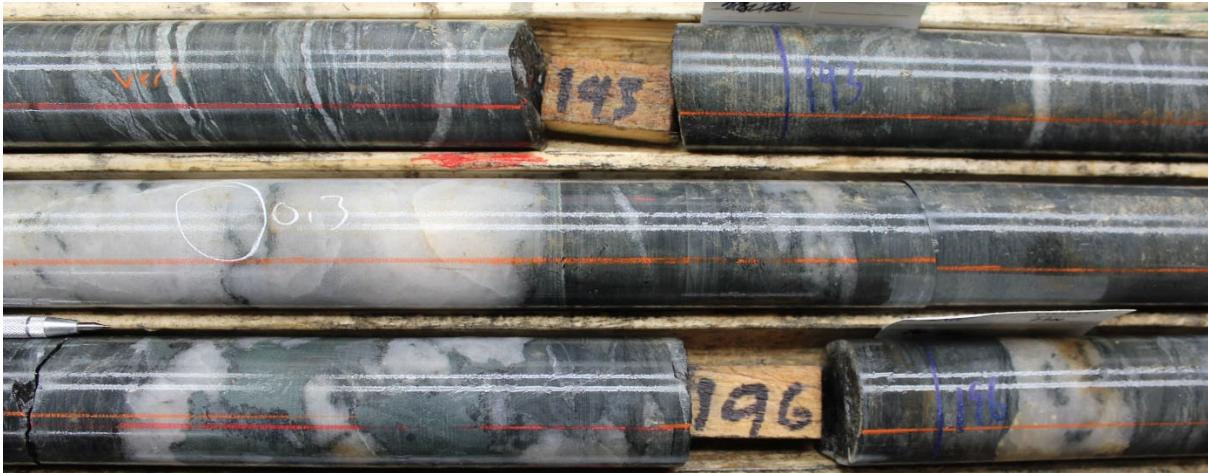


Photo 30: QZ-CL veins hosted in grey shale

### OSK-KAN-18-024

This hole is located in the KTR area and targeted the antiform D2 mineralized trend of Pump Pad Ridge/OSK-KAN-18-016. The hole also passes under the trench FAU2016TR016 where the best values returned in the channel sampling were 0.83 ppm Au over 10 metres and a grab sample of 16.3 ppm Au. Both results were obtained in quartz-ankerite veins stock work hosted in carbonate iron formation. The drillhole intercepted 3 sequences of iron formation intercalated with thin black shale, grey shale and chlorite-ankerite shistes (gabbro/basalt). The first iron formation was intercepted from 3.1 to 32 metres. The first 5 metres of this interval is characterized by 35% of sulfidic chert. From **17 to 20 metres** the iron formation also contained 15 % of sulfidic chert and 20% of quartz-ankerite-chlorite-pyrrhotite-traces of arsenopyrite veins with visible gold grains at 17.7 metres (Photo 31). This interval returned **2.52 ppm Au over 3 metres**, including **5.34 ppm Au over 1 metre from 18 to 19 metres**.

From 64.5 to 73.5 metres, the second interval of iron formation was observed with 20% of sulfidic chert and 2% of quartz-ankerite-pyrrhotite veins. A cut of **0.146 ppm Au over 3.25 metres** was intersected from 70 to 73.25 metres, within the sulfidic chert unit.

The third interval, from 87.2 to 134 metres, contained up to 9% from 92 to 98 and from 111 to 118 metres, of quartz-ankerite-chlorite-pyrrhotite veins with few visual gold grains and traces of arsenopyrite from 92.3 to 95.6 metres. Within this third unit of iron formation, an intersect returning **0.331 ppm Au over 5 metres** was returned in the interval associated with visible gold, from 92 to 97 metres.

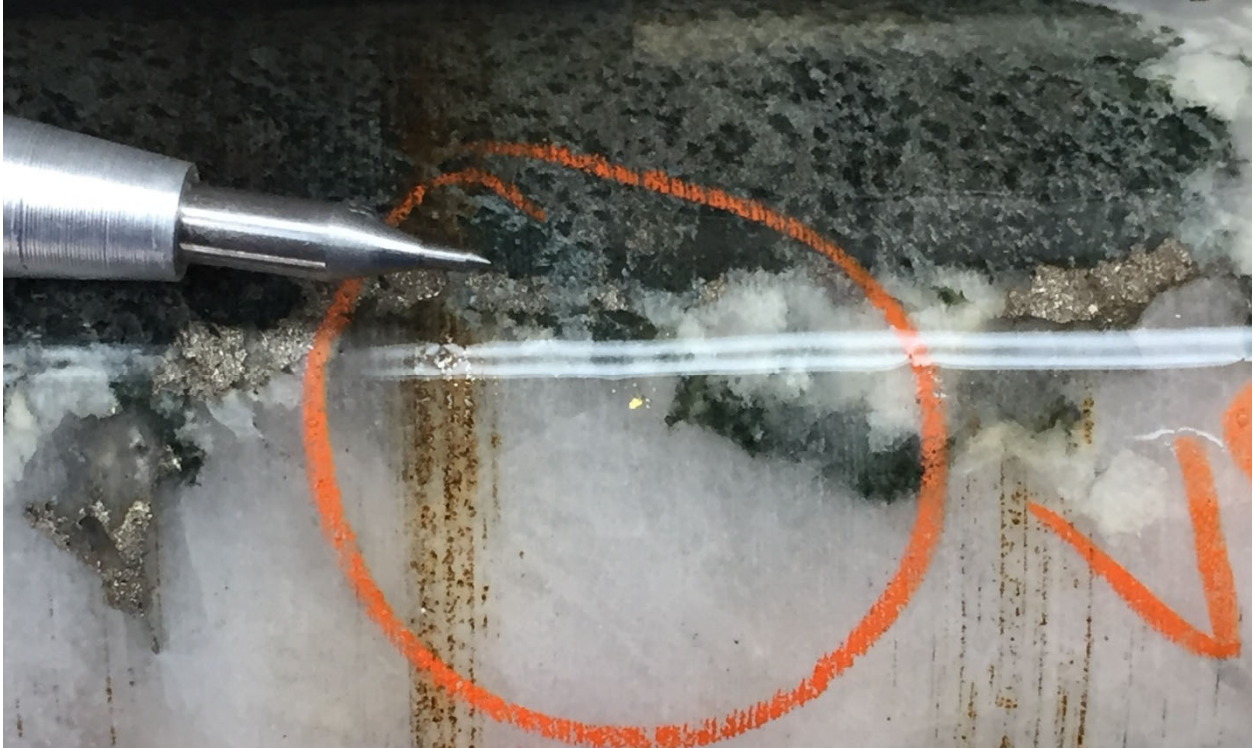


Photo 31: VG in QZ-AK-CL-PO veins hosted in carbonate iron formation

### OSK-KAN-18-025

This hole OSK-KAN-18-025 is a followup of the hole OSK-KAN-18-023 and targeted the mineralized trend of PPR (350N/80) in the iron formation intersected in the hole OSK-KAN-18-023 at 479 metres deep. The hole intersected the first carbonate iron formation from 24.9 to 58.8 metres. The unit are ankerite and siderite facies with 2% of quartz-ankerite-chlorite veins and traces of pyrrhotite. From 40 to 42m, 35% quartz-ankerite-chlorite-pyrrhotite veins.

The hole reaches a second carbonate iron formation in the hinge of the D1 PPR Synclinal, from 120 to 193.3 metres. From 120 to 127.8 and from 189 to 192.5 metres, the unit contained up to 8% of quartz-ankerite-chlorite-pyrrhotite veins (Photo 32). This second iron formation returned several interesting results. From 127 to 129 metres, an intersect of **3.75 ppm Au over 2 metres including 7.28 ppm Au over 1 metre** was returned. Another intersect returned **1.64 ppm Au over 2 metres** from 143 to 145 metres, and **0.547 ppm Au over 5 metres** including 1.48 ppm Au over 1 metre from 149 to 150 metres.

Many layers of iron formation were intersected in lower stratigraphy from 439.8 to 597 metres (Photo 33). These layers were intercalated with black shale and gabbro. Although, these units do not generally contain an important density of veining and ankerite-chlorite alteration, the iron formation contained 10% of quartz-ankerite-chlorite-pyrrhotite and traces of chalcopyrite from 464.3 to 469.5 metres.



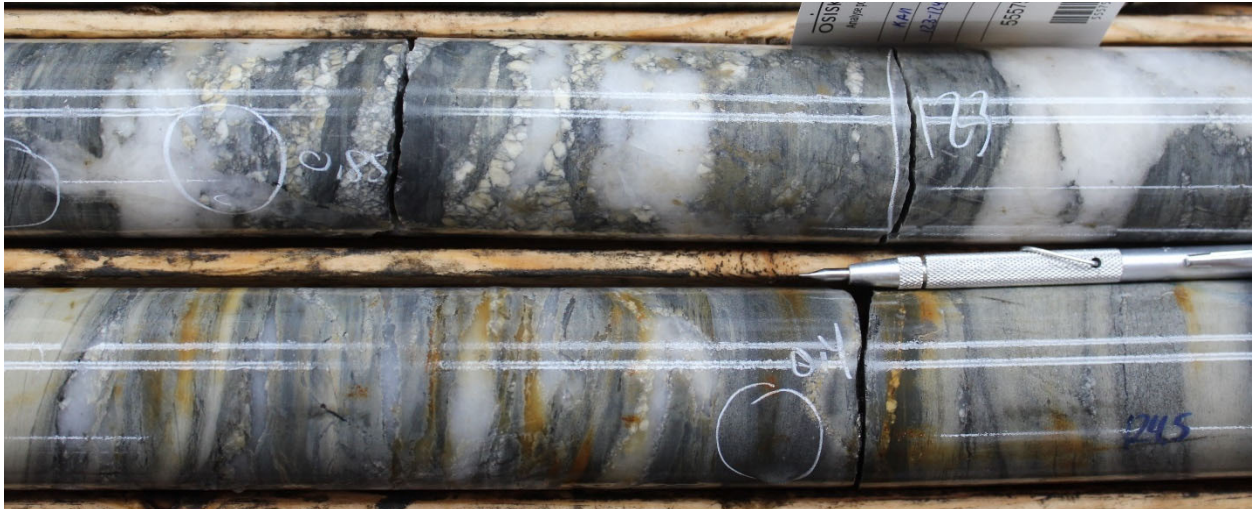


Photo 32: Quartz-ankerite veins in carbonate iron formation

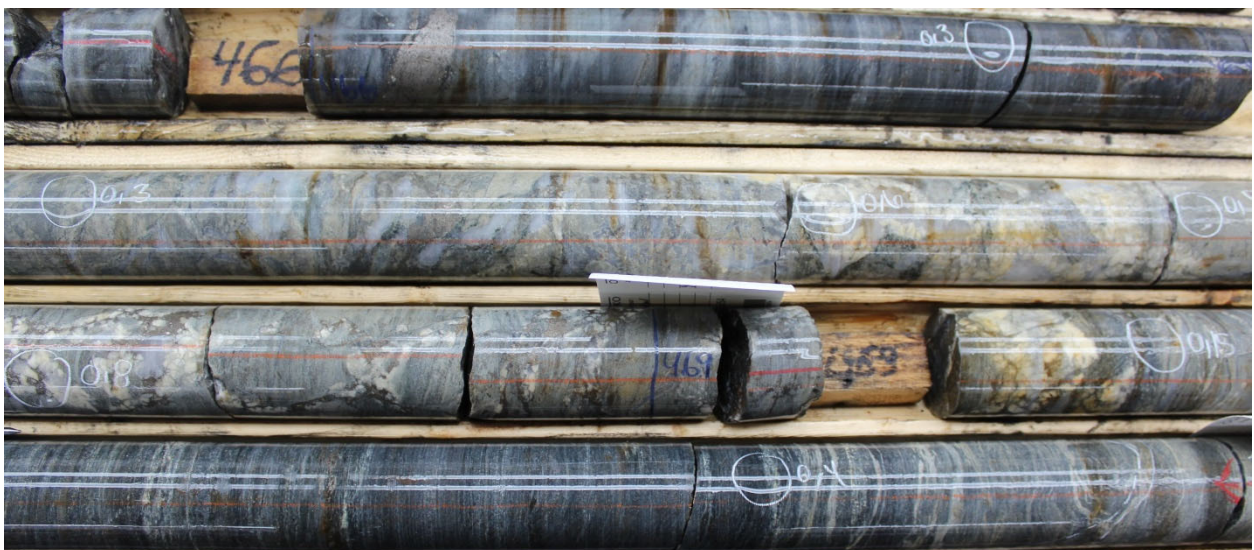


Photo 33: Quartz-ankerite-chlorite-pyrrhotite-pyrite-chalcopyrite veins in carbonate iron formation

### OSK-KAN-18-026

This drillhole is located between the holes OSK-KAN-18-016 and OSK-KAN-18-025. The purpose of this hole was to target the D2 fold hinge of Winchester in the D1 PPR synclinal fold hinge. From 67 to 129.5 metres, the hole intersects the carbonate iron formation in the D1 fold hinge. The unit contained weak ankerite-chlorite alteration with 20% of quartz-ankerite±chlorite±pyrrhotite veins from 93.3 to 98 metres (Photo 34). Another iron formation interval was intercepted from 131 to 159.6 metres with low core angle quartz-ankerite-chlorite-pyrrhotite veins from 151 to 157.1 metres. The hole terminated at 166 metres in grey shale. From 90 to 94 metres, an intersect of **0.61 ppm Au over 4 metres including 1.7 ppm Au over 1 metre** was returned



Photo 34: General view of veining in carbonate iron formation

### OSK-KAN-18-027

The purpose of this hole is to complete a follow up to the hole OSK-KAN-18-024 and to target 40 metres under and intersect D2 hinge in thicker iron formation than hole 024. The hole begins in an iron formation with 3% of quartz-ankerite-traces pyrrhotite veins from 1.7 to 13 metres. This first interval returned, **from 7 to 12 metres, 4.22 ppm Au over 5 metres including 6.57 ppm Au over 3 metres** (Photo 35). The hole then enters in alternating grey shale and gabbro from 35.8 to 57.8 metres. The hole intersects, from 57.8 to 123.8 metres, a homogeneous siderite facies of iron formation. The hole terminated at 214 in graphitic black shale with 6% pyrrhotite and 2% pyrite.



Photo 35: General view of the interval returning 4.22 ppm Au over 5 metres with minnesotaite occurrences and penetrative alteration

## ITEM 9. SAMPLE PREPARATION, ANALYSES AND SECURITY

### 9.1 Drill core sample security, storage and shipment

Samples were collected and processed by the Osisko Mining personnel. They were immediately placed in appropriate sample bags, tagged and recorded with unique sample numbers. These were placed in shipping bags, which in turn were sealed with tie wraps. Bags remained sealed until opened at the laboratory by ALS Minerals personnel.

All samples were initially stored at the campsite then shipped to Tivi personnel's care at Kuujjuaq airport, either by helicopter or by floatplane. At the airport, Tivi personnel loaded the samples into boxes labelled with batch numbers. Samples remained in the secured and restricted access airport compound until they are loaded onto a First Air cargo plane for transport to the

Montreal-Dorval airport. There, samples are picked up by FLS Transport and delivered to the ALS Minerals sample preparation facilities in Val d'Or.

Chain of custody forms as well as waybill numbers from First Air and FLS were used to track each sample shipments.

## **9.2 Drill core sample preparation assay procedures**

After logging in, the samples were crushed in their entirety at the ALS Minerals preparation laboratory in Val-d'Or to >70% passing 2 mm (ALS Minerals Procedure CRU-31). A 200- to 250-g sub-sample was obtained after splitting the finer material (<2 mm). The split portion derived from the crushing process was pulverized using a ring mill to >85% passing 75 µm (200 mesh - ALS Minerals Procedure PUL-31). From each such pulp, a 100-g sub-sample was obtained from another splitting and shipped to the ALS Minerals laboratory for assay. The remainder of the pulp (nominally 100 to 150 g) and the rejects are held at the processing lab for future reference.

The KAN analytical packages was used for all samples. This package includes analysis for Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hg, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th Ti, Tl, U, V, W, Y, Zn and Zr. All elements, except Au and Hg, were determined by the ME-MS61 procedure. Au was determined by the AU-ICP21 Procedure and Hg by Hg-CV41 which used aqua regia decomposition and AES analytical method. For samples with higher than 10 ppm Au values, the analysis was repeated with the ME-GRA21 Procedure.

## **ITEM 10. DATA VERIFICATION**

The authors of the present report were directly involved in collecting, recording, interpreting and presenting the data in this report and in the accompanying maps and sections. Data was reviewed and checked by the authors and is believed to be accurate.

In addition to the internal quality checks used by the ALS Minerals laboratory, the exploration work conducted by Osisko Mining was undertaken using a quality assurance and quality control program according to industry standards for early-stage exploration projects. These procedures are essential to monitor and control accuracy, precision and possible contamination of the samples. For this campaign, gold standards and blanks were employed to monitor the assay results of the samples.

### **10.1. Reference Material Validation**

Quality-control procedure was executed on data from the drill core sampling and logging. The authors were involved in collecting, recording, interpretation and presentation of data in this report and the accompanying maps. The data was reviewed and checked by the authors and is believed to be accurate. During the collection of core samples, blanks and standards were systematically inserted for each batch of 20 samples as part of Osisko Mining's quality control. ALS Chemex, as part of their standard quality control, also ran duplicate check samples and

standards. No samples was assayed at other laboratories. All assay results were received from the laboratory at the time of this report's writing in November 2018.

All the results, tables and graphs produced from the quality control data, are presented in Appendix 6

## **10.2. Drill core sample QAQC**

During the campaign, the quality control consisted of five (5) "certified reference material" (CRM) standards and one (1) uncertified blank material made of calcite. The standards used were Oreas 252, 254 and 256. The standards SH-69 and SN-75 were also used for hole OSK-KAN-18-027 at the end of the campaign as Oreas 252, 254 and 256 were no longer available. These standard samples, as well as the blank samples, were inserted into the sample series between core samples at a frequency of 1 CRM sample and 1 blank sample in every batch of 20 samples. All batches were also verified for the presence of QAQC samples.

The standards Oreas 252, 254 and 256 as well as SH-69 and SN-75 provided certified values against which the analytical results were compared. The success of the QA-QC was based on whether standard samples fell within three standard deviations of the certified value.

When a standard failed the quality control procedure, the entire batch is re-assayed if anomalous gold values were returned in the batch. Batches were also re-assayed when they did not contain at least one QAQC sample and contained anomalous gold results. The anomalous gold value threshold was fixed at 0.10 ppm Au for the Kan project.

### **10.2.1 Standard Oreas 252**

Standard Oreas 252 was used 67 time (n=67) and over 95.5% of the standard results were within three (3) times the standard deviation limit. Two samples were slightly below the acceptable limit, at 0.503 ppm Au and 0.532 ppm Au in batches VO18239175 and VO18236845 respectively. These batches were not re-assayed due to the lack of anomalous gold in the batches.

A sample from batch VO18233864 also failed at 7.6 ppm Au. This failure is probably due to a mislabeled CRM sample, as the returned value is within the certified value of Oreas 256.

### **10.2.3 Standard Oreas 254**

Standard Oreas 254 was used 67 times (n=67) and all standards are within the three (3) times the standard deviation limit.

### **10.2.4 Standard Oreas 256**

Standard Oreas 256 was used 67 times (n=67) and only one sample failed the QAQC. The CRM sample returned a value of 0.672 ppm, which is within the range of Oreas 252's certified value. This failure is probably due to a mislabeling of sample, and thus the overall results from this CRM material can be considered accurate

### **11.2.5 Standard Oreas SN-75**

Standard SN-75 was used 3 times (n=3) and all standards are within the three (3) times the standard deviation limit.

### **11.2.6 Standard Oreas SH-69**

Standard SH-69 was used 3 times (n=3) and all standards are within the three (3) times the standard deviation limit.

### **11.2.7 Blank Validation**

Blanks samples were used 199 times (n=199) and over 98.5% of the blanks results were inferior to the acceptable limit of five (5) times the detection limit of the Au-ICP21. The detection limit of this method is very low, at 0.01 ppm Au. Consequently, the blank material results obtained are considered accurate. Only three (3) blank samples, representing 1.5% of the population, returned a value greater than the acceptable limit. The highest value is returned was 0.017 ppm Au.

## **ITEM 12 INTERPRETATION AND CONCLUSIONS**

The 2018 drilling campaign tested the continuity of known showings, new targets, and increased the comprehension of the mineralized system. The late deformation (D2) seems to have concentrated mineralization in D2 antiform fold hinges by creating tension veins and fractures, possibly filled by fluid during the extensional loosening process at the end of the orogeny. The D2 deformation can be observed in all lithologies, although expressed differently and at various intensities depending on the rheology of the unit. This deformation event created a fragile-ductile regime whereby repetitive open folding is formed within soft lithology like the black shale and grey shale, and fracturing in more competent lithology like iron formation. The folding is associated with crenulation cleavage and fractures, locally filled by quartz, oriented along fold planes, in the shale and are observed in more competent iron formation as a network of quartz veins, parallel and in conjugated system, within the axial plane of D2.

The D1 deformation also contributed to the mineralization process by creating thickening and angularity between the host rock's S0 and the D2 trend folding. However, this D1 folding does not seem to control or concentrate the mineralization and, furthermore, seems to have complexified the geometry with thrusting at D1 anticlinal fold hinge (PPR fold hinge).

The Ankerite > Siderite carbonate facies iron formation, identified by Thompson (2018) in his petrographic report, seems to be the best host rock for dropping gold. This facies also permit a high density of fractures and veining in D2 fold hinges by its rheology, as it is more competent than the other facies of iron formation. A high density of veining is important for the good interaction of gold precipitation between mineralized fluid and host rock and to create a thicker and consistent mineralized zone. Other lithologies can present anomalous gold values as well but they are generally low grades and/or the mineralization is not extensive (for example, in grey shale and in the shaley iron formation)

Mercury is locally and punctually observed with gold values, but no large scale, extensive footprint related to gold mineralization was observed. However, in the case of gold mineralization hosted in iron formation, large extensional foot print are not always observed, even in known deposits. Furthermore, the black shale on the property contains a high background of arsenic and mercury which can mask the mineralization footprint.

The mineralization observed in 2018 is consistent with what was previously observed. As was described in prior years, mineralization is associated with quart-ankerite-chlorite-pyrrhotite±pyrite veins where free gold is observed. No gold was observed in the 2018 thin sections so the relation between gangue, sulfide and gold remains uncertain.

The drilling of the Pump Pad Ridge area (3664m) does not permit to find continuous and extensive high-grade gold value. The geometry of the D1 does not permit a deep extension of the low-grade PPR showing and OSK-KAN-18-016 drillhole. In that way, this area was well tested and the potential for economic mineralization is weak. However, the KTR area remains less tested and the geometry of the folding is not well understood.

The Ferricrete area has also been tested but there is still room to the south to test the mineralization through the syncline, in a D2 trend. Moreover, if the mineralization is related to D2, it's possible to chase another trend further south on the same ridge.

### **ITEM 13 RECOMMENDATIONS**

The previous interpretation and conclusion suggest the following recommendations for further work:

- The deformation event called D2 must be defined and constrained in space by mapping and relogging. The antiform fold hinge D2 could be projected without posterior deformation events. These fold hinges are differently recognized in units due to variation of rheology. High density of quartz veins and fractures, oriented N350 (or in a conjugated system), in competent units (carbonate iron formation, gabbro, etc) could be interpreted as a D2 fold hinge.
- The folding created by D1 events are also important and act as ground preparation by creating angularity between the transposed bedding and D2 fold planes. Areas with greater angles between D1 and D2 are more prospective, as opposed to areas where D1 and D2 were parallel. The interpretation of the magnetic signal and the mapping in the vicinity of the Cabbage fold area seems to suggest angularity between D1 and D2. Thus, the region between KTR and Cabbage should be better studied in order to better understand the geometry of the folding. Other sectors suggesting discordant orientation of D1 with D2 should also be considered as favorable structural settings.
- The rheology is an important factor in the mineralization found on Kan project. Competent rock permits cracking in fold hinges, allowing for the migration of fluids. Although the chemistry of the rock is a key characteristic, it is the mineralogical

composition which seems to be the overriding factor controlling gold precipitation, more so than the redox environment or the iron content of the host rock. Indeed, the Ankerite versus the siderite facies of iron formation seems to allow more gold to precipitate. The parameters of the relation between the mineralized fluids and the ankerite must be better understood to improve the mapping of this unit as well as the targeting.

- Pyrite Falls showing, and now, the Ferricrete Synform, show evidence of demagnetization of the oxide iron formation by a sulfidation process. This could reinforce the use of the magnetic survey to target this kind of mineralization.

All in all, the property remains prospective, but no high grade, continuous mineralization requiring follow-up was discovered during the 2018 campaign.

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**ITEM 15 SIGNATURES**

Dated in Québec, QC, on this 11<sup>th</sup> day of January.

**"Simon Hébert"**



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*Simon Tremblay Hébert, Geo. (O.G.Q. #1777)*

**"Cynthia Lee"**

A handwritten signature in blue ink, appearing to be "Cynthia Lee".

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*Cynthia Lee, Jr. Eng. (O.I.Q. #5082751)*

# Appendix 1

Claim List, Kan Project

2018



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*Simon Tremblay Hébert, Geo. (O.G.Q. #1777)*

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2088325	24F11	1	29	46.33	20070601	20190531
2088326	24F11	1	30	46.33	20070601	20190531
2099187	24F06	25	32	46.39	20070704	20190703
2099189	24F06	25	37	46.39	20070704	20190703
2099191	24F06	25	38	46.39	20070704	20190703
2099193	24F06	26	31	46.38	20070704	20190703
2099195	24F06	26	32	46.38	20070704	20190703
2099196	24F06	26	33	46.38	20070704	20190703
2099198	24F06	26	34	46.38	20070704	20190703
2099200	24F06	26	35	46.38	20070704	20190703
2099202	24F06	26	36	46.38	20070704	20190703
2099204	24F06	26	37	46.38	20070704	20190703
2099206	24F06	26	38	46.38	20070704	20190703
2099208	24F06	27	30	46.37	20070704	20190703
2099210	24F06	27	31	46.37	20070704	20190703
2099212	24F06	27	32	46.37	20070704	20190703
2099214	24F06	27	33	46.37	20070704	20190703
2099216	24F06	27	34	46.37	20070704	20190703
2099218	24F06	25	33	46.39	20070704	20190703
2099220	24F06	25	34	46.39	20070704	20190703
2099222	24F06	25	35	39.44	20070704	20190703
2099224	24F06	25	36	46.39	20070704	20190703
2161523	24F11	1	27	46.33	20080617	20200616
2161524	24F11	1	28	46.33	20080617	20200616
2161525	24F11	1	31	46.33	20080617	20200616
2161526	24F11	1	32	46.33	20080617	20200616
2161527	24F11	1	33	46.33	20080617	20200616
2161528	24F11	1	34	46.33	20080617	20200616
2161530	24F11	2	27	46.32	20080617	20200616
2161531	24F11	2	30	46.32	20080617	20200616
2161532	24F11	2	31	46.32	20080617	20200616
2161533	24F11	2	32	46.32	20080617	20200616
2161534	24F11	2	33	46.32	20080617	20200616
2161535	24F11	2	34	46.32	20080617	20200616
2161537	24F11	3	27	46.31	20080617	20200616
2161538	24F11	3	30	46.31	20080617	20200616
2161539	24F11	3	31	46.31	20080617	20200616
2161540	24F11	3	32	46.31	20080617	20200616
2161541	24F11	3	33	46.31	20080617	20200616
2161542	24F11	3	34	46.31	20080617	20200616
2161544	24F11	4	27	46.3	20080617	20200616
2161545	24F11	4	28	46.3	20080617	20200616
2161546	24F11	4	29	46.3	20080617	20200616
2161547	24F11	4	30	46.3	20080617	20200616
2161548	24F11	4	31	46.3	20080617	20200616

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2162660	24F06	28	30	46.36	20080625	20200624
2162661	24F06	28	33	46.36	20080625	20200624
2162662	24F06	28	34	46.36	20080625	20200624
2162663	24F06	29	29	46.35	20080625	20200624
2162664	24F06	29	32	46.35	20080625	20200624
2162665	24F06	29	33	46.35	20080625	20200624
2162666	24F06	29	34	46.35	20080625	20200624
2162667	24F06	30	28	46.34	20080625	20200624
2162668	24F06	30	29	46.34	20080625	20200624
2162669	24F06	30	31	46.34	20080625	20200624
2162670	24F06	30	32	46.34	20080625	20200624
2162671	24F06	30	33	46.34	20080625	20200624
2162672	24F06	30	34	46.34	20080625	20200624
2162673	24F06	30	35	46.34	20080625	20200624
2194269	24F06	28	31	46.36	20091111	20191110
2194270	24F06	28	32	46.36	20091111	20191110
2194271	24F06	29	30	46.35	20091111	20191110
2194272	24F06	29	31	46.35	20091111	20191110
2194273	24F06	30	30	46.34	20091111	20191110
2274148	24F06	24	30	46.4	20110217	20190216
2274149	24F06	24	31	46.4	20110217	20190216
2274150	24F06	24	32	46.4	20110217	20190216
2274151	24F06	24	37	46.4	20110217	20190216
2274152	24F06	24	38	46.4	20110217	20190216
2274153	24F06	24	39	46.4	20110217	20190216
2274154	24F06	25	29	46.39	20110217	20190216
2274155	24F06	25	30	46.39	20110217	20190216
2274156	24F06	25	31	46.39	20110217	20190216
2274157	24F06	25	39	46.39	20110217	20190216
2274158	24F06	26	29	46.38	20110217	20190216
2274159	24F06	26	30	46.38	20110217	20190216
2274160	24F06	26	39	46.38	20110217	20190216
2274161	24F06	27	28	46.37	20110217	20190216
2274162	24F06	27	29	46.37	20110217	20190216
2274163	24F06	27	35	46.37	20110217	20190216
2274164	24F06	27	36	46.37	20110217	20190216
2274165	24F06	27	37	46.37	20110217	20190216
2274166	24F06	27	38	46.37	20110217	20190216
2274167	24F06	27	39	46.37	20110217	20190216
2274168	24F06	28	28	46.36	20110217	20190216
2274169	24F06	28	29	46.36	20110217	20190216
2274170	24F06	28	35	46.36	20110217	20190216
2274171	24F06	28	36	46.36	20110217	20190216
2274172	24F06	28	37	46.36	20110217	20190216
2274173	24F06	28	38	46.36	20110217	20190216

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2274174	24F06	28	39	46.36	20110217	20190216
2274175	24F06	29	27	46.35	20110217	20190216
2274176	24F06	29	28	46.35	20110217	20190216
2274177	24F06	29	35	46.35	20110217	20190216
2274178	24F06	29	36	46.35	20110217	20190216
2274179	24F06	29	37	46.35	20110217	20190216
2274180	24F06	29	38	46.35	20110217	20190216
2274181	24F06	30	27	46.34	20110217	20190216
2274182	24F11	3	26	46.31	20110217	20190216
2274183	24F11	4	25	46.3	20110217	20190216
2274184	24F11	4	26	46.3	20110217	20190216
2274185	24F11	4	32	46.3	20110217	20190216
2274186	24F11	4	33	46.3	20110217	20190216
2274187	24F11	5	24	46.28	20110217	20190216
2274188	24F11	5	25	46.28	20110217	20190216
2274189	24F11	5	26	46.28	20110217	20190216
2274190	24F11	5	27	46.28	20110217	20190216
2274191	24F11	5	28	46.28	20110217	20190216
2274192	24F11	5	29	46.28	20110217	20190216
2274193	24F11	5	30	46.28	20110217	20190216
2274194	24F11	5	31	46.28	20110217	20190216
2274195	24F11	5	32	46.28	20110217	20190216
2274196	24F11	5	33	46.28	20110217	20190216
2274197	24F11	6	24	46.27	20110217	20190216
2274198	24F11	6	25	46.27	20110217	20190216
2274199	24F11	6	26	46.27	20110217	20190216
2274200	24F11	6	27	46.27	20110217	20190216
2274201	24F11	6	28	46.27	20110217	20190216
2274202	24F11	6	29	46.27	20110217	20190216
2274203	24F11	6	30	46.27	20110217	20190216
2274204	24F11	6	31	46.27	20110217	20190216
2274205	24F11	6	32	46.27	20110217	20190216
2274206	24F11	6	33	46.27	20110217	20190216
2274207	24F11	7	23	46.26	20110217	20190216
2274208	24F11	7	24	46.26	20110217	20190216
2274209	24F11	7	25	46.26	20110217	20190216
2274210	24F11	7	26	46.26	20110217	20190216
2274211	24F11	7	27	46.26	20110217	20190216
2274212	24F11	7	28	46.26	20110217	20190216
2274213	24F11	7	29	46.26	20110217	20190216
2274214	24F11	7	30	46.26	20110217	20190216
2274215	24F11	7	31	46.26	20110217	20190216
2274216	24F11	7	32	46.26	20110217	20190216
2274261	24F11	8	23	46.25	20110217	20190216
2274262	24F11	8	24	46.25	20110217	20190216

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2274263	24F11	8	25	46.25	20110217	20190216
2274264	24F11	8	26	46.25	20110217	20190216
2274265	24F11	8	27	46.25	20110217	20190216
2274266	24F11	8	28	46.25	20110217	20190216
2274267	24F11	8	29	46.25	20110217	20190216
2274268	24F11	8	30	46.25	20110217	20190216
2274269	24F11	9	23	46.24	20110217	20190216
2274270	24F11	9	24	46.24	20110217	20190216
2274271	24F11	9	25	46.24	20110217	20190216
2274272	24F11	9	26	46.24	20110217	20190216
2274273	24F11	9	27	46.24	20110217	20190216
2274274	24F11	9	28	46.24	20110217	20190216
2274275	24F11	9	29	46.24	20110217	20190216
2276261	24F06	24	33	46.4	20110310	20190309
2276262	24F06	24	36	46.4	20110310	20190309
2311103	24F11	9	22	46.24	20110830	20190829
2311104	24F11	10	20	46.23	20110830	20200513
2311105	24F11	10	21	46.23	20110830	20200513
2311106	24F11	10	22	46.23	20110830	20200513
2311107	24F11	10	23	46.23	20110830	20190829
2311108	24F11	10	24	46.23	20110830	20190829
2311109	24F11	10	25	46.23	20110830	20190829
2311110	24F11	10	26	46.23	20110830	20190829
2311111	24F11	11	19	46.22	20110830	20200513
2311112	24F11	11	20	46.22	20110830	20200513
2311113	24F11	11	21	46.22	20110830	20200513
2311114	24F11	11	22	46.22	20110830	20200513
2311115	24F11	11	23	46.22	20110830	20200513
2311116	24F11	11	24	46.22	20110830	20200513
2311117	24F11	11	25	46.22	20110830	20200513
2311118	24F11	12	17	46.21	20110830	20200513
2311119	24F11	12	18	46.21	20110830	20200513
2311120	24F11	12	19	46.21	20110830	20200513
2311121	24F11	12	20	46.21	20110830	20200513
2311122	24F11	12	21	46.21	20110830	20200513
2311123	24F11	12	22	46.21	20110830	20200513
2311124	24F11	12	23	46.21	20110830	20200513
2311125	24F11	13	15	46.2	20110830	20200513
2311126	24F11	13	16	46.2	20110830	20200513
2311127	24F11	13	17	46.2	20110830	20200513
2311128	24F11	13	18	46.2	20110830	20200513
2311129	24F11	13	19	46.2	20110830	20200513
2311130	24F11	13	20	46.2	20110830	20200513
2311131	24F11	13	21	46.2	20110830	20200513
2311132	24F11	14	14	46.19	20110830	20200513

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2311133	24F11	14	15	46.19	20110830	20200513
2311134	24F11	14	16	46.19	20110830	20200513
2311135	24F11	14	17	46.19	20110830	20200513
2311136	24F11	14	18	46.19	20110830	20200513
2311137	24F11	14	19	46.19	20110830	20200513
2311895	24F11	5	22	46.28	20110912	20190911
2311896	24F11	5	23	46.28	20110912	20190911
2311897	24F11	6	22	46.27	20110912	20190911
2311898	24F11	6	23	46.27	20110912	20190911
2311899	24F11	7	21	46.26	20110912	20190911
2311900	24F11	7	22	46.26	20110912	20190911
2311901	24F11	8	20	46.25	20110912	20190911
2311902	24F11	8	21	46.25	20110912	20190911
2311903	24F11	8	22	46.25	20110912	20190911
2311904	24F11	9	20	46.24	20110912	20190911
2311905	24F11	9	21	46.24	20110912	20190911
2313520	24F11	6	20	46.27	20110926	20190925
2313521	24F11	6	21	46.27	20110926	20190925
2313522	24F11	7	19	46.26	20110926	20190925
2313523	24F11	7	20	46.26	20110926	20190925
2313524	24F11	8	18	46.25	20110926	20190925
2313525	24F11	8	19	46.25	20110926	20190925
2313526	24F11	9	18	46.24	20110926	20190925
2313527	24F11	9	19	46.24	20110926	20190925
2313528	24F11	10	18	46.23	20110926	20190925
2313529	24F11	10	19	46.23	20110926	20190925
2313530	24F11	11	18	46.22	20110926	20190925
2313645	24F06	17	34	46.47	20110927	20190926
2313646	24F06	17	35	46.47	20110927	20190926
2313647	24F06	17	36	46.47	20110927	20190926
2313648	24F06	17	37	46.47	20110927	20190926
2313649	24F06	17	38	46.47	20110927	20190926
2313650	24F06	17	39	46.47	20110927	20190926
2313651	24F06	18	34	46.46	20110927	20190926
2313652	24F06	18	35	46.46	20110927	20190926
2313653	24F06	18	36	46.46	20110927	20190926
2313654	24F06	18	37	46.46	20110927	20190926
2313655	24F06	18	38	46.46	20110927	20190926
2313656	24F06	18	39	46.46	20110927	20190926
2313657	24F06	19	34	46.45	20110927	20190926
2313658	24F06	19	35	46.45	20110927	20190926
2313659	24F06	19	36	46.45	20110927	20190926
2313660	24F06	19	37	46.45	20110927	20190926
2313661	24F06	19	38	46.45	20110927	20190926
2313662	24F06	19	39	46.45	20110927	20190926



APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2313663	24F06	20	34	46.44	20110927	20190926
2313664	24F06	20	35	46.44	20110927	20190926
2313665	24F06	20	36	46.44	20110927	20190926
2313666	24F06	20	37	46.44	20110927	20190926
2313667	24F06	20	38	46.44	20110927	20190926
2313668	24F06	20	39	46.44	20110927	20190926
2313669	24F06	21	34	46.43	20110927	20190926
2313670	24F06	21	35	46.43	20110927	20190926
2313671	24F06	21	36	46.43	20110927	20190926
2313672	24F06	21	37	46.43	20110927	20190926
2313673	24F06	21	38	46.43	20110927	20190926
2313674	24F06	21	39	46.43	20110927	20190926
2313675	24F06	22	34	46.42	20110927	20190926
2313676	24F06	22	35	46.42	20110927	20190926
2313677	24F06	22	36	46.42	20110927	20190926
2313678	24F06	22	37	46.42	20110927	20190926
2313679	24F06	22	38	46.42	20110927	20190926
2313680	24F06	22	39	46.42	20110927	20190926
2313681	24F06	23	37	46.41	20110927	20190926
2313682	24F06	23	38	46.41	20110927	20190926
2313683	24F06	23	39	46.41	20110927	20190926
2313873	24F06	17	33	46.47	20110928	20190927
2313874	24F06	18	33	46.46	20110928	20190927
2313875	24F06	19	33	46.45	20110928	20190927
2313876	24F06	20	33	46.44	20110928	20190927
2313877	24F06	21	33	46.43	20110928	20190927
2315138	24F11	14	12	46.19	20111003	20191002
2315139	24F11	14	13	46.19	20111003	20191002
2315140	24F11	15	9	46.18	20111003	20191002
2315141	24F11	15	10	46.18	20111003	20191002
2315142	24F11	15	11	46.18	20111003	20191002
2315143	24F11	15	12	46.18	20111003	20191002
2315144	24F11	15	13	46.18	20111003	20191002
2315145	24F11	15	14	46.18	20111003	20191002
2315146	24F11	15	15	46.18	20111003	20191002
2315147	24F11	16	8	46.17	20111003	20191002
2315148	24F11	16	9	46.17	20111003	20191002
2315149	24F11	16	10	46.17	20111003	20191002
2315150	24F11	16	11	46.17	20111003	20191002
2315151	24F11	16	12	46.17	20111003	20191002
2315152	24F11	16	13	46.17	20111003	20191002
2315153	24F11	16	14	46.17	20111003	20191002
2315154	24F11	17	7	46.16	20111003	20191002
2315155	24F11	17	8	46.16	20111003	20191002
2315156	24F11	17	9	46.16	20111003	20191002

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2315157	24F11	17	10	46.16	20111003	20191002
2315158	24F11	17	11	46.16	20111003	20191002
2315159	24F11	17	12	46.16	20111003	20191002
2315160	24F11	17	13	46.16	20111003	20191002
2315161	24F11	18	6	46.15	20111003	20191002
2315162	24F11	18	7	46.15	20111003	20191002
2315163	24F11	18	8	46.15	20111003	20191002
2315164	24F11	18	9	46.15	20111003	20191002
2315165	24F11	18	10	46.15	20111003	20191002
2315166	24F11	18	11	46.15	20111003	20191002
2315167	24F11	18	12	46.15	20111003	20191002
2315168	24F11	19	6	46.14	20111003	20191002
2315169	24F11	19	7	46.14	20111003	20191002
2315170	24F11	19	8	46.14	20111003	20191002
2315171	24F11	19	9	46.14	20111003	20191002
2315172	24F11	19	10	46.14	20111003	20191002
2315173	24F11	19	11	46.14	20111003	20191002
2315174	24F11	20	10	46.13	20111003	20191002
2315175	24F11	21	10	46.12	20111003	20191002
2318423	24F06	23	36	46.41	20111018	20191017
2318454	24F06	23	34	46.41	20111018	20191017
2318455	24F06	23	35	46.41	20111018	20191017
2330783	24F11	12	15	46.21	20120127	20200513
2330784	24F11	12	16	46.21	20120127	20200513
2330792	24F11	12	14	46.21	20120127	20200513
2330857	24F11	12	12	46.21	20120127	20200513
2330858	24F11	12	13	46.21	20120127	20200513
2330862	24F11	13	8	46.2	20120127	20200513
2330865	24F11	13	11	46.2	20120127	20200513
2330866	24F11	13	12	46.2	20120127	20200513
2330867	24F11	13	13	46.2	20120127	20200513
2330868	24F11	13	14	46.2	20120127	20200513
2330871	24F11	14	7	46.19	20120127	20200513
2330872	24F11	14	8	46.19	20120127	20200513
2330873	24F11	14	9	46.19	20120127	20200513
2330874	24F11	14	10	46.19	20120127	20200513
2330875	24F11	14	11	46.19	20120127	20200513
2330879	24F11	15	5	46.18	20120127	20200513
2330880	24F11	15	6	46.18	20120127	20200513
2330881	24F11	15	7	46.18	20120127	20200513
2330882	24F11	15	8	46.18	20120127	20200513
2330884	24F11	16	3	46.17	20120127	20200513
2330885	24F11	16	4	46.17	20120127	20200513
2330886	24F11	16	5	46.17	20120127	20200513
2330887	24F11	16	6	46.17	20120127	20200513

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2330888	24F11	16	7	46.17	20120127	20200513
2330890	24F11	17	3	46.16	20120127	20200513
2330891	24F11	17	4	46.16	20120127	20200513
2330892	24F11	17	5	46.16	20120127	20200513
2330893	24F11	17	6	46.16	20120127	20200513
2330894	24F11	18	2	46.15	20120127	20200513
2330895	24F11	18	3	46.15	20120127	20200513
2330896	24F11	18	4	46.15	20120127	20200513
2330897	24F11	18	5	46.15	20120127	20200513
2330898	24F11	19	2	46.14	20120127	20200513
2330899	24F11	19	3	46.14	20120127	20200513
2330900	24F11	19	4	46.14	20120127	20200513
2330901	24F11	19	5	46.14	20120127	20200513
2330902	24F11	20	3	46.13	20120127	20200513
2330903	24F11	20	4	46.13	20120127	20200513
2330904	24F11	20	5	46.13	20120127	20200513
2330905	24F11	21	4	46.12	20120127	20200513
2330906	24F11	21	5	46.12	20120127	20200513
2334060	24F06	21	32	46.43	20120305	20200513
2334061	24F06	22	32	46.42	20120305	20200513
2334062	24F06	22	33	46.42	20120305	20200513
2334063	24F06	23	32	46.41	20120305	20200513
2336529	24F06	29	39	46.35	20120319	20200318
2336534	24F06	30	36	46.34	20120319	20200318
2336535	24F06	30	37	46.34	20120319	20200318
2336536	24F06	30	38	46.34	20120319	20200318
2336537	24F06	30	39	46.34	20120319	20200318
2336542	24F11	1	35	46.33	20120319	20200318
2336543	24F11	1	36	46.33	20120319	20200318
2336544	24F11	1	37	46.33	20120319	20200318
2336545	24F11	1	38	46.33	20120319	20200318
2336546	24F11	1	39	46.33	20120319	20200318
2336547	24F11	2	35	46.32	20120319	20200318
2336548	24F11	2	36	46.32	20120319	20200318
2336549	24F11	2	37	46.32	20120319	20200318
2336550	24F11	2	38	46.32	20120319	20200318
2336551	24F11	2	39	46.32	20120319	20200318
2336552	24F11	3	35	46.31	20120319	20200318
2336553	24F11	3	36	46.31	20120319	20200318
2336554	24F11	3	37	46.31	20120319	20200318
2336555	24F11	3	38	46.31	20120319	20200318
2336556	24F11	3	39	46.31	20120319	20200318
2340181	24F06	30	17	46.34	20120403	20200402
2340182	24F06	30	18	46.34	20120403	20200402
2340183	24F06	30	19	46.34	20120403	20200402

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2340191	24F11	1	16	46.33	20120403	20200402
2340192	24F11	1	17	46.33	20120403	20200402
2340193	24F11	1	18	46.33	20120403	20200402
2340204	24F11	2	15	46.32	20120403	20200402
2340205	24F11	2	16	46.32	20120403	20200402
2340206	24F11	2	17	46.32	20120403	20200402
2340217	24F11	3	15	46.31	20120403	20200402
2340218	24F11	3	16	46.31	20120403	20200402
2341525	24F11	15	16	46.18	20120419	20200513
2341526	24F11	15	17	46.18	20120419	20200513
2341527	24F11	15	18	46.18	20120419	20200513
2341528	24F11	15	19	46.18	20120419	20200513
2348063	24F11	22	4	46.11	20120531	20200513
2348064	24F11	22	5	46.11	20120531	20200513
2348065	24F11	22	6	46.11	20120531	20200513
2348066	24F11	22	7	46.11	20120531	20200513
2348067	24F11	22	8	46.11	20120531	20200513
2348068	24F11	22	9	46.11	20120531	20200513
2348069	24F11	22	10	46.11	20120531	20200513
2348070	24F11	23	7	46.1	20120531	20200513
2348071	24F11	23	8	46.1	20120531	20200513
2348072	24F11	23	9	46.1	20120531	20200513
2348073	24F11	23	10	46.1	20120531	20200513
2374419	24F11	26	1	46.06	20130110	20190109
2374420	24F11	26	2	46.06	20130110	20190109
2374421	24F11	26	3	46.06	20130110	20190109
2374422	24F11	26	4	46.06	20130110	20190109
2374423	24F11	26	5	46.06	20130110	20190109
2374424	24F11	27	1	46.05	20130110	20190109
2374425	24F11	27	2	46.05	20130110	20190109
2374426	24F11	27	3	46.05	20130110	20190109
2374427	24F11	27	4	46.05	20130110	20190109
2374428	24F11	28	1	46.04	20130110	20190109
2374429	24F11	28	2	46.04	20130110	20190109
2374430	24F11	28	3	46.04	20130110	20190109
2374431	24F11	28	4	46.04	20130110	20190109
2374432	24F11	29	1	46.03	20130110	20190109
2374433	24F11	29	2	46.03	20130110	20190109
2374434	24F11	29	3	46.03	20130110	20190109
2374435	24F11	29	4	46.03	20130110	20190109
2374436	24F11	30	1	46.02	20130110	20190109
2374437	24F11	30	2	46.02	20130110	20190109
2374438	24F11	30	3	46.02	20130110	20190109
2374439	24F11	30	4	46.02	20130110	20190109
2374440	24F12	23	56	46.1	20130110	20190109

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2374441	24F12	23	57	46.1	20130110	20190109
2374442	24F12	24	52	46.09	20130110	20190109
2374443	24F12	24	53	46.09	20130110	20190109
2374444	24F12	24	54	46.09	20130110	20190109
2374445	24F12	24	55	46.09	20130110	20190109
2374446	24F12	24	56	46.09	20130110	20190109
2374447	24F12	24	57	46.09	20130110	20190109
2374456	24F12	25	52	46.08	20130110	20190109
2374457	24F12	25	53	46.08	20130110	20190109
2374458	24F12	25	54	46.08	20130110	20190109
2374459	24F12	25	55	46.08	20130110	20190109
2374460	24F12	25	56	46.08	20130110	20190109
2374461	24F12	25	57	46.08	20130110	20190109
2374472	24F12	26	51	46.07	20130110	20190109
2374473	24F12	26	52	46.06	20130110	20190109
2374474	24F12	26	53	46.06	20130110	20190109
2374475	24F12	26	54	46.06	20130110	20190109
2374476	24F12	26	55	46.06	20130110	20190109
2374477	24F12	26	56	46.06	20130110	20190109
2374478	24F12	26	60	46.06	20130110	20190109
2374488	24F12	27	48	46.05	20130110	20190109
2374489	24F12	27	49	46.05	20130110	20190109
2374490	24F12	27	50	46.05	20130110	20190109
2374491	24F12	27	51	46.05	20130110	20190109
2374492	24F12	27	52	46.05	20130110	20190109
2374493	24F12	27	53	46.05	20130110	20190109
2374494	24F12	27	54	46.05	20130110	20190109
2374495	24F12	27	59	46.05	20130110	20190109
2374496	24F12	27	60	46.05	20130110	20190109
2374506	24F12	28	48	46.04	20130110	20190109
2374507	24F12	28	49	46.04	20130110	20190109
2374508	24F12	28	50	46.04	20130110	20190109
2374509	24F12	28	51	46.04	20130110	20190109
2374510	24F12	28	52	46.04	20130110	20190109
2374511	24F12	28	58	46.04	20130110	20190109
2374512	24F12	28	59	46.04	20130110	20190109
2374513	24F12	28	60	46.04	20130110	20190109
2374521	24F12	29	48	46.03	20130110	20190109
2374522	24F12	29	49	46.03	20130110	20190109
2374523	24F12	29	50	46.03	20130110	20190109
2374524	24F12	29	51	46.03	20130110	20190109
2374525	24F12	29	58	46.03	20130110	20190109
2374526	24F12	29	59	46.03	20130110	20190109
2374527	24F12	29	60	46.03	20130110	20190109
2374530	24F12	30	49	46.02	20130110	20190109

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2374531	24F12	30	50	46.02	20130110	20190109
2374532	24F12	30	51	46.02	20130110	20190109
2374533	24F12	30	58	46.02	20130110	20190109
2374534	24F12	30	59	46.02	20130110	20190109
2374535	24F12	30	60	46.02	20130110	20190109
2374536	24F13	1	58	46.01	20130110	20190109
2374537	24F13	1	59	46.01	20130110	20190109
2374538	24F13	1	60	46.01	20130110	20190109
2374539	24F14	1	1	46.01	20130110	20190109
2374540	24F14	1	2	46.01	20130110	20190109
2374541	24F14	1	3	46.01	20130110	20190109
2374542	24F14	1	4	46.01	20130110	20190109
2374543	24F06	23	48	46.41	20130110	20190109
2374544	24F06	23	49	46.41	20130110	20190109
2374545	24F06	23	50	46.41	20130110	20190109
2374550	24F06	24	47	46.4	20130110	20190109
2374551	24F06	24	48	46.4	20130110	20190109
2374552	24F06	24	49	46.4	20130110	20190109
2374553	24F06	24	50	46.4	20130110	20190109
2374558	24F06	25	45	46.39	20130110	20190109
2374559	24F06	25	46	46.39	20130110	20190109
2374560	24F06	25	47	46.39	20130110	20190109
2374561	24F06	25	48	46.39	20130110	20190109
2374562	24F06	25	49	46.39	20130110	20190109
2374563	24F06	25	50	46.39	20130110	20190109
2374568	24F06	26	44	46.38	20130110	20190109
2374569	24F06	26	45	46.38	20130110	20190109
2374570	24F06	26	46	46.38	20130110	20190109
2374571	24F06	26	47	46.38	20130110	20190109
2374572	24F06	26	48	46.38	20130110	20190109
2374573	24F06	26	49	46.38	20130110	20190109
2374574	24F06	26	50	46.38	20130110	20190109
2374579	24F06	27	40	46.37	20130110	20190109
2374580	24F06	27	41	46.37	20130110	20190109
2374581	24F06	27	42	46.37	20130110	20190109
2374582	24F06	27	43	46.37	20130110	20190109
2374583	24F06	27	44	46.37	20130110	20190109
2374584	24F06	27	45	46.37	20130110	20190109
2374585	24F06	27	46	46.37	20130110	20190109
2374586	24F06	27	47	46.37	20130110	20190109
2374587	24F06	27	48	46.37	20130110	20190109
2374592	24F06	27	53	46.37	20130110	20190109
2374593	24F06	27	54	46.37	20130110	20190109
2374594	24F06	28	40	46.36	20130110	20190109
2374595	24F06	28	41	46.36	20130110	20190109

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2374596	24F06	28	42	46.36	20130110	20190109
2374597	24F06	28	43	46.36	20130110	20190109
2374598	24F06	28	44	46.36	20130110	20190109
2374599	24F06	28	45	46.36	20130110	20190109
2374600	24F06	28	46	46.36	20130110	20190109
2374601	24F06	28	47	46.36	20130110	20190109
2374607	24F06	28	53	46.36	20130110	20190109
2374608	24F06	28	54	46.36	20130110	20190109
2374609	24F06	29	40	46.35	20130110	20190109
2374610	24F06	29	41	46.35	20130110	20190109
2374611	24F06	29	42	46.35	20130110	20190109
2374612	24F06	29	43	46.35	20130110	20190109
2374613	24F06	29	44	46.35	20130110	20190109
2374614	24F06	29	45	46.35	20130110	20190109
2374615	24F06	29	46	46.35	20130110	20190109
2374622	24F06	29	53	46.35	20130110	20190109
2374623	24F06	29	54	46.35	20130110	20190109
2374624	24F06	30	41	46.34	20130110	20190109
2374625	24F06	30	42	46.34	20130110	20190109
2374626	24F06	30	43	46.34	20130110	20190109
2374627	24F06	30	44	46.34	20130110	20190109
2374628	24F06	30	45	46.34	20130110	20190109
2374629	24F06	30	46	46.34	20130110	20190109
2374630	24F06	30	47	46.34	20130110	20190109
2374631	24F06	30	48	46.34	20130110	20190109
2374632	24F06	30	49	46.34	20130110	20190109
2374633	24F06	30	50	46.34	20130110	20190109
2374634	24F06	30	51	46.34	20130110	20190109
2374635	24F06	30	52	46.34	20130110	20190109
2374636	24F06	30	53	46.34	20130110	20190109
2374637	24F06	30	54	46.34	20130110	20190109
2374638	24F06	30	55	46.34	20130110	20190109
2374639	24F11	1	44	46.33	20130110	20190109
2374640	24F11	1	45	46.33	20130110	20190109
2374641	24F11	1	46	46.33	20130110	20190109
2374642	24F11	1	47	46.33	20130110	20190109
2374643	24F11	1	48	46.33	20130110	20190109
2374644	24F11	1	49	46.33	20130110	20190109
2374645	24F11	1	50	46.33	20130110	20190109
2374646	24F11	1	51	46.33	20130110	20190109
2374647	24F11	1	52	46.33	20130110	20190109
2374648	24F11	1	53	46.33	20130110	20190109
2374649	24F11	1	54	46.33	20130110	20190109
2374650	24F11	1	55	46.33	20130110	20190109
2374651	24F11	2	45	46.32	20130110	20190109

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2374652	24F11	2	46	46.32	20130110	20190109
2374653	24F11	2	47	46.32	20130110	20190109
2374654	24F11	2	48	46.32	20130110	20190109
2374655	24F11	2	49	46.32	20130110	20190109
2374656	24F11	2	50	46.32	20130110	20190109
2374657	24F11	2	51	46.32	20130110	20190109
2374658	24F11	2	52	46.32	20130110	20190109
2374659	24F11	2	53	46.32	20130110	20190109
2374660	24F11	2	54	46.32	20130110	20190109
2374661	24F11	2	55	46.32	20130110	20190109
2374662	24F11	2	56	46.32	20130110	20190109
2374663	24F11	3	47	46.31	20130110	20190109
2374664	24F11	3	48	46.31	20130110	20190109
2374665	24F11	3	49	46.31	20130110	20190109
2374666	24F11	3	50	46.31	20130110	20190109
2374667	24F11	3	51	46.31	20130110	20190109
2374668	24F11	3	52	46.31	20130110	20190109
2374669	24F11	3	53	46.31	20130110	20190109
2374670	24F11	3	54	46.31	20130110	20190109
2374671	24F11	3	55	46.31	20130110	20190109
2374672	24F11	3	56	46.31	20130110	20190109
2374673	24F11	4	48	46.29	20130110	20190109
2374674	24F11	4	49	46.29	20130110	20190109
2374675	24F11	4	50	46.29	20130110	20190109
2374676	24F11	4	51	46.29	20130110	20190109
2374677	24F11	4	52	46.29	20130110	20190109
2374678	24F11	4	53	46.29	20130110	20190109
2374679	24F11	4	54	46.29	20130110	20190109
2374680	24F11	5	49	46.28	20130110	20190109
2374681	24F11	5	50	46.28	20130110	20190109
2374690	24F06	10	38	46.55	20130110	20190109
2374691	24F06	10	39	46.55	20130110	20190109
2374692	24F06	10	40	46.55	20130110	20190109
2374693	24F06	11	34	46.54	20130110	20190109
2374694	24F06	11	35	46.54	20130110	20190109
2374695	24F06	11	36	46.54	20130110	20190109
2374696	24F06	11	37	46.54	20130110	20190109
2374697	24F06	11	38	46.54	20130110	20190109
2374698	24F06	11	39	46.54	20130110	20190109
2374707	24F06	12	34	46.53	20130110	20190109
2374708	24F06	12	35	46.53	20130110	20190109
2374709	24F06	12	36	46.53	20130110	20190109
2374710	24F06	12	37	46.53	20130110	20190109
2374711	24F06	12	38	46.53	20130110	20190109
2374721	24F06	13	34	46.52	20130110	20190109



APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2374722	24F06	13	35	46.52	20130110	20190109
2374723	24F06	13	36	46.52	20130110	20190109
2374724	24F06	13	37	46.52	20130110	20190109
2374735	24F06	14	34	46.5	20130110	20190109
2374736	24F06	14	35	46.5	20130110	20190109
2374737	24F06	14	36	46.5	20130110	20190109
2374750	24F06	15	34	46.49	20130110	20190109
2374751	24F06	15	35	46.49	20130110	20190109
2374752	24F06	15	36	46.49	20130110	20190109
2374765	24F06	16	34	46.48	20130110	20190109
2374766	24F06	16	35	46.48	20130110	20190109
2374767	24F06	16	36	46.48	20130110	20190109
2391194	24F06	23	33	46.41	20130926	20190925
2391195	24F06	24	34	46.4	20130926	20190925
2391196	24F06	24	35	46.4	20130926	20190925
2411611	24F06	29	55	46.35	20140908	20200907
2411612	24F06	29	56	46.35	20140908	20200907
2411613	24F06	30	56	46.34	20140908	20200907
2411614	24F11	1	56	46.33	20140908	20200907
2411615	24F11	1	57	46.33	20140908	20200907
2426699	24F11	20	14	46.13	20150417	20190416
2426700	24F11	20	15	46.13	20150417	20190416
2426701	24F11	20	16	46.13	20150417	20190416
2426702	24F11	20	17	46.13	20150417	20190416
2426703	24F11	21	14	46.12	20150417	20190416
2426704	24F11	21	15	46.12	20150417	20190416
2426705	24F11	21	16	46.12	20150417	20190416
2426706	24F11	22	14	46.11	20150417	20190416
2426707	24F11	22	15	46.11	20150417	20190416
2426708	24F11	22	16	46.11	20150417	20190416
2474049	24F11	1	19	46.33	20170130	20190129
2474050	24F11	1	20	46.33	20170130	20190129
2474051	24F11	1	21	46.33	20170130	20190129
2474052	24F11	1	22	46.33	20170130	20190129
2474053	24F11	1	23	46.33	20170130	20190129
2474054	24F11	1	24	46.33	20170130	20190129
2474055	24F11	1	25	46.33	20170130	20190129
2474056	24F11	1	26	46.33	20170130	20190129
2474057	24F11	1	40	46.33	20170130	20190129
2474058	24F11	1	41	46.33	20170130	20190129
2474059	24F11	1	42	46.33	20170130	20190129
2474060	24F11	1	43	46.33	20170130	20190129
2474061	24F11	2	18	46.32	20170130	20190129
2474062	24F11	2	19	46.32	20170130	20190129
2474063	24F11	2	20	46.32	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474064	24F11	2	21	46.32	20170130	20190129
2474065	24F11	2	22	46.32	20170130	20190129
2474066	24F11	2	23	46.32	20170130	20190129
2474067	24F11	2	24	46.32	20170130	20190129
2474068	24F11	2	25	46.32	20170130	20190129
2474069	24F11	2	26	46.32	20170130	20190129
2474070	24F11	2	40	46.32	20170130	20190129
2474071	24F11	2	41	46.32	20170130	20190129
2474072	24F11	2	42	46.32	20170130	20190129
2474073	24F11	2	43	46.32	20170130	20190129
2474074	24F11	2	44	46.32	20170130	20190129
2474075	24F11	3	17	46.31	20170130	20190129
2474076	24F11	3	18	46.31	20170130	20190129
2474077	24F11	3	19	46.31	20170130	20190129
2474078	24F11	3	20	46.31	20170130	20190129
2474079	24F11	3	21	46.31	20170130	20190129
2474080	24F11	3	22	46.31	20170130	20190129
2474081	24F11	3	23	46.31	20170130	20190129
2474082	24F11	3	24	46.31	20170130	20190129
2474083	24F11	3	25	46.31	20170130	20190129
2474084	24F11	3	40	46.31	20170130	20190129
2474085	24F11	3	41	46.31	20170130	20190129
2474086	24F11	3	42	46.31	20170130	20190129
2474087	24F11	3	43	46.31	20170130	20190129
2474088	24F11	3	44	46.31	20170130	20190129
2474089	24F11	3	45	46.31	20170130	20190129
2474090	24F11	3	46	46.31	20170130	20190129
2474091	24F11	4	16	46.3	20170130	20190129
2474092	24F11	4	19	46.3	20170130	20190129
2474093	24F11	4	20	46.3	20170130	20190129
2474094	24F11	4	21	46.3	20170130	20190129
2474095	24F11	4	22	46.3	20170130	20190129
2474096	24F11	4	23	46.3	20170130	20190129
2474097	24F11	4	24	46.3	20170130	20190129
2474098	24F11	4	34	46.3	20170130	20190129
2474099	24F11	4	35	46.3	20170130	20190129
2474100	24F11	4	36	46.3	20170130	20190129
2474101	24F11	4	37	46.3	20170130	20190129
2474102	24F11	4	38	46.3	20170130	20190129
2474103	24F11	4	39	46.3	20170130	20190129
2474104	24F11	4	40	46.3	20170130	20190129
2474105	24F11	4	41	46.3	20170130	20190129
2474106	24F11	4	42	46.29	20170130	20190129
2474107	24F11	4	43	46.3	20170130	20190129
2474108	24F11	4	44	46.3	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474109	24F11	4	45	46.29	20170130	20190129
2474110	24F11	4	46	46.29	20170130	20190129
2474111	24F11	4	47	46.29	20170130	20190129
2474112	24F11	4	55	46.29	20170130	20190129
2474113	24F11	4	56	46.29	20170130	20190129
2474114	24F11	5	34	46.28	20170130	20190129
2474115	24F11	5	35	46.28	20170130	20190129
2474116	24F11	5	36	46.28	20170130	20190129
2474117	24F11	5	37	46.28	20170130	20190129
2474118	24F11	5	38	46.28	20170130	20190129
2474119	24F11	5	39	46.28	20170130	20190129
2474120	24F11	5	40	46.28	20170130	20190129
2474121	24F11	5	41	46.28	20170130	20190129
2474122	24F11	5	42	46.28	20170130	20190129
2474123	24F11	5	43	46.28	20170130	20190129
2474124	24F11	5	44	46.28	20170130	20190129
2474125	24F11	5	45	46.28	20170130	20190129
2474126	24F11	5	46	46.28	20170130	20190129
2474127	24F11	5	47	46.28	20170130	20190129
2474128	24F11	5	48	46.28	20170130	20190129
2474129	24F11	5	51	46.28	20170130	20190129
2474130	24F11	5	52	46.28	20170130	20190129
2474131	24F11	5	53	46.28	20170130	20190129
2474132	24F11	5	54	46.28	20170130	20190129
2474133	24F11	5	55	46.28	20170130	20190129
2474134	24F11	5	56	46.28	20170130	20190129
2474135	24F11	6	34	46.27	20170130	20190129
2474136	24F11	6	35	46.27	20170130	20190129
2474137	24F11	6	36	46.27	20170130	20190129
2474138	24F11	6	37	46.27	20170130	20190129
2474139	24F11	6	38	46.27	20170130	20190129
2474140	24F11	6	39	46.27	20170130	20190129
2474141	24F11	6	40	46.27	20170130	20190129
2474142	24F11	6	41	46.27	20170130	20190129
2474143	24F11	6	42	46.27	20170130	20190129
2474144	24F11	6	43	46.27	20170130	20190129
2474145	24F11	6	44	46.27	20170130	20190129
2474146	24F11	6	45	46.27	20170130	20190129
2474147	24F11	6	46	46.27	20170130	20190129
2474148	24F11	6	47	46.27	20170130	20190129
2474149	24F11	6	48	46.27	20170130	20190129
2474150	24F11	6	49	46.27	20170130	20190129
2474151	24F11	6	50	46.27	20170130	20190129
2474152	24F11	6	51	46.27	20170130	20190129
2474153	24F11	6	52	46.27	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474154	24F11	6	53	46.27	20170130	20190129
2474155	24F11	6	54	46.27	20170130	20190129
2474156	24F11	6	55	46.27	20170130	20190129
2474157	24F11	6	56	46.27	20170130	20190129
2474158	24F11	7	33	46.26	20170130	20190129
2474159	24F11	7	34	46.26	20170130	20190129
2474160	24F11	7	35	46.26	20170130	20190129
2474161	24F11	7	36	46.26	20170130	20190129
2474162	24F11	7	37	46.26	20170130	20190129
2474163	24F11	7	38	46.26	20170130	20190129
2474164	24F11	7	39	46.26	20170130	20190129
2474165	24F11	7	40	46.26	20170130	20190129
2474166	24F11	8	31	46.25	20170130	20190129
2474167	24F11	8	32	46.25	20170130	20190129
2474168	24F11	8	33	46.25	20170130	20190129
2474169	24F11	8	34	46.25	20170130	20190129
2474170	24F11	8	35	46.25	20170130	20190129
2474171	24F11	8	36	46.25	20170130	20190129
2474172	24F11	8	37	46.25	20170130	20190129
2474173	24F11	8	38	46.25	20170130	20190129
2474174	24F11	9	30	46.24	20170130	20190129
2474175	24F11	9	31	46.24	20170130	20190129
2474176	24F11	9	32	46.24	20170130	20190129
2474177	24F11	9	33	46.24	20170130	20190129
2474178	24F11	9	34	46.24	20170130	20190129
2474179	24F11	9	35	46.24	20170130	20190129
2474180	24F11	9	36	46.24	20170130	20190129
2474181	24F11	9	37	46.24	20170130	20190129
2474182	24F11	10	27	46.23	20170130	20190129
2474183	24F11	10	28	46.23	20170130	20190129
2474184	24F11	10	29	46.23	20170130	20190129
2474185	24F11	10	30	46.23	20170130	20190129
2474186	24F11	10	31	46.23	20170130	20190129
2474187	24F11	10	32	46.23	20170130	20190129
2474188	24F11	10	33	46.23	20170130	20190129
2474189	24F11	10	34	46.23	20170130	20190129
2474190	24F11	10	35	46.23	20170130	20190129
2474191	24F11	11	26	46.22	20170130	20190129
2474192	24F11	11	27	46.22	20170130	20190129
2474193	24F11	11	28	46.22	20170130	20190129
2474194	24F11	11	29	46.22	20170130	20190129
2474195	24F11	11	30	46.22	20170130	20190129
2474196	24F11	11	31	46.22	20170130	20190129
2474197	24F11	11	32	46.22	20170130	20190129
2474198	24F11	11	33	46.22	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474199	24F06	23	26	46.41	20170130	20190129
2474200	24F06	23	27	46.41	20170130	20190129
2474201	24F06	23	28	46.41	20170130	20190129
2474202	24F06	23	29	46.41	20170130	20190129
2474203	24F06	23	30	46.41	20170130	20190129
2474204	24F06	23	31	46.41	20170130	20190129
2474205	24F06	23	40	46.41	20170130	20190129
2474206	24F06	23	41	46.41	20170130	20190129
2474207	24F06	23	42	46.41	20170130	20190129
2474208	24F06	23	43	46.41	20170130	20190129
2474209	24F06	23	44	46.41	20170130	20190129
2474210	24F06	23	45	46.41	20170130	20190129
2474211	24F06	23	46	46.41	20170130	20190129
2474212	24F06	23	47	46.41	20170130	20190129
2474213	24F06	23	51	46.41	20170130	20190129
2474214	24F06	23	52	46.41	20170130	20190129
2474215	24F06	23	53	46.41	20170130	20190129
2474216	24F06	23	54	46.41	20170130	20190129
2474217	24F06	23	55	46.41	20170130	20190129
2474218	24F06	23	56	46.41	20170130	20190129
2474219	24F06	24	17	46.4	20170130	20190129
2474220	24F06	24	18	46.4	20170130	20190129
2474221	24F06	24	19	46.4	20170130	20190129
2474222	24F06	24	20	46.4	20170130	20190129
2474223	24F06	24	21	46.4	20170130	20190129
2474224	24F06	24	22	46.4	20170130	20190129
2474225	24F06	24	23	46.4	20170130	20190129
2474226	24F06	24	24	46.4	20170130	20190129
2474227	24F06	24	25	46.4	20170130	20190129
2474228	24F06	24	26	46.4	20170130	20190129
2474229	24F06	24	27	46.4	20170130	20190129
2474230	24F06	24	28	46.4	20170130	20190129
2474231	24F06	24	29	46.4	20170130	20190129
2474232	24F06	24	40	46.4	20170130	20190129
2474233	24F06	24	41	46.4	20170130	20190129
2474234	24F06	24	42	46.4	20170130	20190129
2474235	24F06	24	43	46.4	20170130	20190129
2474236	24F06	24	44	46.4	20170130	20190129
2474237	24F06	24	45	46.4	20170130	20190129
2474238	24F06	24	46	46.4	20170130	20190129
2474239	24F06	24	51	46.4	20170130	20190129
2474240	24F06	24	52	46.4	20170130	20190129
2474241	24F06	24	53	46.4	20170130	20190129
2474242	24F06	24	54	46.4	20170130	20190129
2474243	24F06	24	55	46.4	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474244	24F06	24	56	46.4	20170130	20190129
2474245	24F06	25	17	46.39	20170130	20190129
2474246	24F06	25	18	46.39	20170130	20190129
2474247	24F06	25	19	46.39	20170130	20190129
2474248	24F06	25	20	46.39	20170130	20190129
2474249	24F06	25	21	46.39	20170130	20190129
2474250	24F06	25	22	46.39	20170130	20190129
2474251	24F06	25	23	46.39	20170130	20190129
2474252	24F06	25	24	46.39	20170130	20190129
2474253	24F06	25	25	46.39	20170130	20190129
2474254	24F06	25	26	46.39	20170130	20190129
2474255	24F06	25	27	46.39	20170130	20190129
2474256	24F06	25	28	46.39	20170130	20190129
2474257	24F06	25	40	46.39	20170130	20190129
2474258	24F06	25	41	46.39	20170130	20190129
2474259	24F06	25	42	46.39	20170130	20190129
2474260	24F06	25	43	46.39	20170130	20190129
2474261	24F06	25	44	46.39	20170130	20190129
2474262	24F06	25	51	46.39	20170130	20190129
2474263	24F06	25	52	46.39	20170130	20190129
2474264	24F06	25	53	46.39	20170130	20190129
2474265	24F06	25	54	46.39	20170130	20190129
2474266	24F06	25	55	46.39	20170130	20190129
2474267	24F06	25	56	46.39	20170130	20190129
2474268	24F06	26	17	46.38	20170130	20190129
2474269	24F06	26	18	46.38	20170130	20190129
2474270	24F06	26	19	46.38	20170130	20190129
2474271	24F06	26	20	46.38	20170130	20190129
2474272	24F06	26	21	46.38	20170130	20190129
2474273	24F06	26	22	46.38	20170130	20190129
2474274	24F06	26	23	46.38	20170130	20190129
2474275	24F06	26	24	46.38	20170130	20190129
2474276	24F06	26	25	46.38	20170130	20190129
2474277	24F06	26	26	46.38	20170130	20190129
2474278	24F06	26	27	46.38	20170130	20190129
2474279	24F06	26	28	46.38	20170130	20190129
2474280	24F06	26	40	46.38	20170130	20190129
2474281	24F06	26	41	46.38	20170130	20190129
2474282	24F06	26	42	46.38	20170130	20190129
2474283	24F06	26	43	46.38	20170130	20190129
2474284	24F06	26	51	46.38	20170130	20190129
2474285	24F06	26	52	46.38	20170130	20190129
2474286	24F06	26	53	46.38	20170130	20190129
2474287	24F06	26	54	46.38	20170130	20190129
2474288	24F06	26	55	46.38	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474289	24F06	26	56	46.38	20170130	20190129
2474290	24F06	27	17	46.37	20170130	20190129
2474291	24F06	27	18	46.37	20170130	20190129
2474292	24F06	27	19	46.37	20170130	20190129
2474293	24F06	27	20	46.37	20170130	20190129
2474294	24F06	27	21	46.37	20170130	20190129
2474295	24F06	27	22	46.37	20170130	20190129
2474296	24F06	27	23	46.37	20170130	20190129
2474297	24F06	27	24	46.37	20170130	20190129
2474298	24F06	27	25	46.37	20170130	20190129
2474299	24F06	27	26	46.37	20170130	20190129
2474300	24F06	27	27	46.37	20170130	20190129
2474301	24F06	27	49	46.37	20170130	20190129
2474302	24F06	27	50	46.37	20170130	20190129
2474303	24F06	27	51	46.37	20170130	20190129
2474304	24F06	27	52	46.37	20170130	20190129
2474305	24F06	27	55	46.37	20170130	20190129
2474306	24F06	27	56	46.37	20170130	20190129
2474307	24F06	28	17	46.36	20170130	20190129
2474308	24F06	28	18	46.36	20170130	20190129
2474309	24F06	28	19	46.36	20170130	20190129
2474310	24F06	28	20	46.36	20170130	20190129
2474311	24F06	28	21	46.36	20170130	20190129
2474312	24F06	28	22	46.36	20170130	20190129
2474313	24F06	28	23	46.36	20170130	20190129
2474314	24F06	28	24	46.36	20170130	20190129
2474315	24F06	28	25	46.36	20170130	20190129
2474316	24F06	28	26	46.36	20170130	20190129
2474317	24F06	28	27	46.36	20170130	20190129
2474318	24F06	28	48	46.36	20170130	20190129
2474319	24F06	28	49	46.36	20170130	20190129
2474320	24F06	28	50	46.36	20170130	20190129
2474321	24F06	28	51	46.36	20170130	20190129
2474322	24F06	28	52	46.36	20170130	20190129
2474323	24F06	28	55	46.36	20170130	20190129
2474324	24F06	28	56	46.36	20170130	20190129
2474325	24F06	29	17	46.35	20170130	20190129
2474326	24F06	29	18	46.35	20170130	20190129
2474327	24F06	29	19	46.35	20170130	20190129
2474328	24F06	29	20	46.35	20170130	20190129
2474329	24F06	29	21	46.35	20170130	20190129
2474330	24F06	29	22	46.35	20170130	20190129
2474331	24F06	29	23	46.35	20170130	20190129
2474332	24F06	29	24	46.35	20170130	20190129
2474333	24F06	29	25	46.35	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474334	24F06	29	26	46.35	20170130	20190129
2474335	24F06	29	47	46.35	20170130	20190129
2474336	24F06	29	48	46.35	20170130	20190129
2474337	24F06	29	49	46.35	20170130	20190129
2474338	24F06	29	50	46.35	20170130	20190129
2474339	24F06	29	51	46.35	20170130	20190129
2474340	24F06	29	52	46.35	20170130	20190129
2474341	24F06	30	20	46.34	20170130	20190129
2474342	24F06	30	21	46.34	20170130	20190129
2474343	24F06	30	22	46.34	20170130	20190129
2474344	24F06	30	23	46.34	20170130	20190129
2474345	24F06	30	24	46.34	20170130	20190129
2474346	24F06	30	25	46.34	20170130	20190129
2474347	24F06	30	26	46.34	20170130	20190129
2474348	24F06	30	40	46.34	20170130	20190129
2474349	24F06	18	26	46.46	20170130	20190129
2474350	24F06	18	27	46.46	20170130	20190129
2474351	24F06	18	28	46.46	20170130	20190129
2474352	24F06	18	29	46.46	20170130	20190129
2474353	24F06	18	30	46.46	20170130	20190129
2474354	24F06	18	31	46.46	20170130	20190129
2474355	24F06	18	32	46.46	20170130	20190129
2474356	24F06	18	40	46.46	20170130	20190129
2474357	24F06	18	41	46.46	20170130	20190129
2474358	24F06	18	42	46.46	20170130	20190129
2474359	24F06	18	43	46.46	20170130	20190129
2474360	24F06	19	17	46.45	20170130	20190129
2474361	24F06	19	18	46.45	20170130	20190129
2474362	24F06	19	19	46.45	20170130	20190129
2474363	24F06	19	20	46.45	20170130	20190129
2474364	24F06	19	21	46.45	20170130	20190129
2474365	24F06	19	22	46.45	20170130	20190129
2474366	24F06	19	23	46.45	20170130	20190129
2474367	24F06	19	24	46.45	20170130	20190129
2474368	24F06	19	25	46.45	20170130	20190129
2474369	24F06	19	26	46.45	20170130	20190129
2474370	24F06	19	27	46.45	20170130	20190129
2474371	24F06	19	28	46.45	20170130	20190129
2474372	24F06	19	29	46.45	20170130	20190129
2474373	24F06	19	30	46.45	20170130	20190129
2474374	24F06	19	31	46.45	20170130	20190129
2474375	24F06	19	32	46.45	20170130	20190129
2474376	24F06	19	40	46.45	20170130	20190129
2474377	24F06	19	41	46.45	20170130	20190129
2474378	24F06	19	42	46.45	20170130	20190129



APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474379	24F06	19	43	46.45	20170130	20190129
2474380	24F06	19	44	46.45	20170130	20190129
2474381	24F06	19	45	46.45	20170130	20190129
2474382	24F06	19	46	46.45	20170130	20190129
2474383	24F06	19	47	46.45	20170130	20190129
2474384	24F06	19	48	46.45	20170130	20190129
2474385	24F06	19	49	46.45	20170130	20190129
2474386	24F06	19	50	46.45	20170130	20190129
2474387	24F06	19	51	46.45	20170130	20190129
2474388	24F06	19	52	46.45	20170130	20190129
2474389	24F06	19	53	46.45	20170130	20190129
2474390	24F06	19	54	46.45	20170130	20190129
2474391	24F06	19	55	46.45	20170130	20190129
2474392	24F06	19	56	46.45	20170130	20190129
2474393	24F06	20	17	46.44	20170130	20190129
2474394	24F06	20	18	46.44	20170130	20190129
2474395	24F06	20	19	46.44	20170130	20190129
2474396	24F06	20	20	46.44	20170130	20190129
2474397	24F06	20	21	46.44	20170130	20190129
2474398	24F06	20	22	46.44	20170130	20190129
2474399	24F06	20	23	46.44	20170130	20190129
2474400	24F06	20	24	46.44	20170130	20190129
2474401	24F06	20	25	46.44	20170130	20190129
2474402	24F06	20	26	46.44	20170130	20190129
2474403	24F06	20	27	46.44	20170130	20190129
2474404	24F06	20	28	46.44	20170130	20190129
2474405	24F06	20	29	46.44	20170130	20190129
2474406	24F06	20	30	46.44	20170130	20190129
2474407	24F06	20	31	46.44	20170130	20190129
2474408	24F06	20	32	46.44	20170130	20190129
2474409	24F06	20	40	46.44	20170130	20190129
2474410	24F06	20	41	46.44	20170130	20190129
2474411	24F06	20	42	46.44	20170130	20190129
2474412	24F06	20	43	46.44	20170130	20190129
2474413	24F06	20	44	46.44	20170130	20190129
2474414	24F06	20	45	46.44	20170130	20190129
2474415	24F06	20	46	46.44	20170130	20190129
2474416	24F06	20	47	46.44	20170130	20190129
2474417	24F06	20	48	46.44	20170130	20190129
2474418	24F06	20	49	46.44	20170130	20190129
2474419	24F06	20	50	46.44	20170130	20190129
2474420	24F06	20	51	46.44	20170130	20190129
2474421	24F06	20	52	46.44	20170130	20190129
2474422	24F06	20	53	46.44	20170130	20190129
2474423	24F06	20	54	46.44	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474424	24F06	20	55	46.44	20170130	20190129
2474425	24F06	20	56	46.44	20170130	20190129
2474426	24F06	21	17	46.43	20170130	20190129
2474427	24F06	21	18	46.43	20170130	20190129
2474428	24F06	21	19	46.43	20170130	20190129
2474429	24F06	21	20	46.43	20170130	20190129
2474430	24F06	21	21	46.43	20170130	20190129
2474431	24F06	21	22	46.43	20170130	20190129
2474432	24F06	21	23	46.43	20170130	20190129
2474433	24F06	21	24	46.43	20170130	20190129
2474434	24F06	21	25	46.43	20170130	20190129
2474435	24F06	21	26	46.43	20170130	20190129
2474436	24F06	21	27	46.43	20170130	20190129
2474437	24F06	21	28	46.43	20170130	20190129
2474438	24F06	21	29	46.43	20170130	20190129
2474439	24F06	21	30	46.43	20170130	20190129
2474440	24F06	21	31	46.43	20170130	20190129
2474441	24F06	21	40	46.43	20170130	20190129
2474442	24F06	21	41	46.43	20170130	20190129
2474443	24F06	21	42	46.43	20170130	20190129
2474444	24F06	21	43	46.43	20170130	20190129
2474445	24F06	21	44	46.43	20170130	20190129
2474446	24F06	21	45	46.43	20170130	20190129
2474447	24F06	21	46	46.43	20170130	20190129
2474448	24F06	21	47	46.43	20170130	20190129
2474449	24F06	21	48	46.43	20170130	20190129
2474450	24F06	21	49	46.43	20170130	20190129
2474451	24F06	21	50	46.43	20170130	20190129
2474452	24F06	21	51	46.43	20170130	20190129
2474453	24F06	21	52	46.43	20170130	20190129
2474454	24F06	21	53	46.43	20170130	20190129
2474455	24F06	21	54	46.43	20170130	20190129
2474456	24F06	21	55	46.43	20170130	20190129
2474457	24F06	21	56	46.43	20170130	20190129
2474458	24F06	22	17	46.42	20170130	20190129
2474459	24F06	22	18	46.42	20170130	20190129
2474460	24F06	22	19	46.42	20170130	20190129
2474461	24F06	22	20	46.42	20170130	20190129
2474462	24F06	22	21	46.42	20170130	20190129
2474463	24F06	22	22	46.42	20170130	20190129
2474464	24F06	22	23	46.42	20170130	20190129
2474465	24F06	22	24	46.42	20170130	20190129
2474466	24F06	22	25	46.42	20170130	20190129
2474467	24F06	22	26	46.42	20170130	20190129
2474468	24F06	22	27	46.42	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474469	24F06	22	28	46.42	20170130	20190129
2474470	24F06	22	29	46.42	20170130	20190129
2474471	24F06	22	30	46.42	20170130	20190129
2474472	24F06	22	31	46.42	20170130	20190129
2474473	24F06	22	40	46.42	20170130	20190129
2474474	24F06	22	41	46.42	20170130	20190129
2474475	24F06	22	42	46.42	20170130	20190129
2474476	24F06	22	43	46.42	20170130	20190129
2474477	24F06	22	44	46.42	20170130	20190129
2474478	24F06	22	45	46.42	20170130	20190129
2474479	24F06	22	46	46.42	20170130	20190129
2474480	24F06	22	47	46.42	20170130	20190129
2474481	24F06	22	48	46.42	20170130	20190129
2474482	24F06	22	49	46.42	20170130	20190129
2474483	24F06	22	50	46.42	20170130	20190129
2474484	24F06	22	51	46.42	20170130	20190129
2474485	24F06	22	52	46.42	20170130	20190129
2474486	24F06	22	53	46.42	20170130	20190129
2474487	24F06	22	54	46.42	20170130	20190129
2474488	24F06	22	55	46.42	20170130	20190129
2474489	24F06	22	56	46.42	20170130	20190129
2474490	24F06	23	17	46.41	20170130	20190129
2474491	24F06	23	18	46.41	20170130	20190129
2474492	24F06	23	19	46.41	20170130	20190129
2474493	24F06	23	20	46.41	20170130	20190129
2474494	24F06	23	21	46.41	20170130	20190129
2474495	24F06	23	22	46.41	20170130	20190129
2474496	24F06	23	23	46.41	20170130	20190129
2474497	24F06	23	24	46.41	20170130	20190129
2474498	24F06	23	25	46.41	20170130	20190129
2474499	24F06	16	14	46.48	20170130	20190129
2474500	24F06	16	15	46.48	20170130	20190129
2474501	24F06	16	16	46.48	20170130	20190129
2474502	24F06	16	17	46.48	20170130	20190129
2474503	24F06	16	18	46.48	20170130	20190129
2474504	24F06	16	19	46.48	20170130	20190129
2474505	24F06	16	20	46.48	20170130	20190129
2474506	24F06	16	21	46.48	20170130	20190129
2474507	24F06	16	22	46.48	20170130	20190129
2474508	24F06	16	23	46.48	20170130	20190129
2474509	24F06	16	24	46.48	20170130	20190129
2474510	24F06	16	25	46.48	20170130	20190129
2474511	24F06	16	26	46.48	20170130	20190129
2474512	24F06	16	27	46.48	20170130	20190129
2474513	24F06	16	28	46.48	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474514	24F06	16	29	46.48	20170130	20190129
2474515	24F06	16	30	46.48	20170130	20190129
2474516	24F06	16	31	46.48	20170130	20190129
2474517	24F06	16	32	46.48	20170130	20190129
2474518	24F06	16	33	46.48	20170130	20190129
2474519	24F06	16	37	46.48	20170130	20190129
2474520	24F06	16	38	46.48	20170130	20190129
2474521	24F06	16	39	46.48	20170130	20190129
2474522	24F06	16	40	46.48	20170130	20190129
2474523	24F06	16	41	46.48	20170130	20190129
2474524	24F06	16	42	46.48	20170130	20190129
2474525	24F06	16	43	46.48	20170130	20190129
2474526	24F06	16	44	46.48	20170130	20190129
2474527	24F06	16	46	46.48	20170130	20190129
2474528	24F06	16	47	46.48	20170130	20190129
2474529	24F06	16	48	46.48	20170130	20190129
2474530	24F06	16	49	46.48	20170130	20190129
2474531	24F06	16	50	46.48	20170130	20190129
2474532	24F06	16	51	46.48	20170130	20190129
2474533	24F06	16	52	46.48	20170130	20190129
2474534	24F06	16	53	46.48	20170130	20190129
2474535	24F06	16	54	46.48	20170130	20190129
2474536	24F06	16	55	46.48	20170130	20190129
2474537	24F06	16	56	46.48	20170130	20190129
2474538	24F06	17	13	46.47	20170130	20190129
2474539	24F06	17	14	46.47	20170130	20190129
2474540	24F06	17	15	46.47	20170130	20190129
2474541	24F06	17	16	46.47	20170130	20190129
2474542	24F06	17	17	46.47	20170130	20190129
2474543	24F06	17	18	46.47	20170130	20190129
2474544	24F06	17	19	46.47	20170130	20190129
2474545	24F06	17	20	46.47	20170130	20190129
2474546	24F06	17	21	46.47	20170130	20190129
2474547	24F06	17	22	46.47	20170130	20190129
2474548	24F06	17	23	46.47	20170130	20190129
2474549	24F06	17	24	46.47	20170130	20190129
2474550	24F06	17	25	46.47	20170130	20190129
2474551	24F06	17	26	46.47	20170130	20190129
2474552	24F06	17	27	46.47	20170130	20190129
2474553	24F06	17	28	46.47	20170130	20190129
2474554	24F06	17	29	46.47	20170130	20190129
2474555	24F06	17	30	46.47	20170130	20190129
2474556	24F06	17	31	46.47	20170130	20190129
2474557	24F06	17	32	46.47	20170130	20190129
2474558	24F06	17	40	46.47	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474559	24F06	17	41	46.47	20170130	20190129
2474560	24F06	17	42	46.47	20170130	20190129
2474561	24F06	17	43	46.47	20170130	20190129
2474562	24F06	17	44	46.47	20170130	20190129
2474563	24F06	17	45	46.47	20170130	20190129
2474564	24F06	17	46	46.47	20170130	20190129
2474565	24F06	17	47	46.47	20170130	20190129
2474566	24F06	17	48	46.47	20170130	20190129
2474567	24F06	17	49	46.47	20170130	20190129
2474568	24F06	17	50	46.47	20170130	20190129
2474569	24F06	17	51	46.47	20170130	20190129
2474570	24F06	17	52	46.47	20170130	20190129
2474571	24F06	17	53	46.47	20170130	20190129
2474572	24F06	17	54	46.47	20170130	20190129
2474573	24F06	17	55	46.47	20170130	20190129
2474574	24F06	17	56	46.47	20170130	20190129
2474575	24F06	18	13	46.46	20170130	20190129
2474576	24F06	18	14	46.46	20170130	20190129
2474577	24F06	18	15	46.46	20170130	20190129
2474578	24F06	18	16	46.46	20170130	20190129
2474579	24F06	18	17	46.46	20170130	20190129
2474580	24F06	18	18	46.46	20170130	20190129
2474581	24F06	18	19	46.46	20170130	20190129
2474582	24F06	18	20	46.46	20170130	20190129
2474583	24F06	18	21	46.46	20170130	20190129
2474584	24F06	18	22	46.46	20170130	20190129
2474585	24F06	18	23	46.46	20170130	20190129
2474586	24F06	18	24	46.46	20170130	20190129
2474587	24F06	18	25	46.46	20170130	20190129
2474588	24F06	18	44	46.46	20170130	20190129
2474589	24F06	18	45	46.46	20170130	20190129
2474590	24F06	18	46	46.46	20170130	20190129
2474591	24F06	18	47	46.46	20170130	20190129
2474592	24F06	18	48	46.46	20170130	20190129
2474593	24F06	18	49	46.46	20170130	20190129
2474594	24F06	18	50	46.46	20170130	20190129
2474595	24F06	18	51	46.46	20170130	20190129
2474596	24F06	18	52	46.46	20170130	20190129
2474597	24F06	18	53	46.46	20170130	20190129
2474598	24F06	18	54	46.46	20170130	20190129
2474599	24F06	18	55	46.46	20170130	20190129
2474600	24F06	18	56	46.46	20170130	20190129
2474601	24F06	19	13	46.45	20170130	20190129
2474602	24F06	19	14	46.45	20170130	20190129
2474603	24F06	19	15	46.45	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474604	24F06	19	16	46.45	20170130	20190129
2474605	24F06	20	13	46.44	20170130	20190129
2474606	24F06	20	14	46.44	20170130	20190129
2474607	24F06	20	15	46.44	20170130	20190129
2474608	24F06	20	16	46.44	20170130	20190129
2474609	24F06	21	13	46.43	20170130	20190129
2474610	24F06	21	14	46.43	20170130	20190129
2474611	24F06	21	15	46.43	20170130	20190129
2474612	24F06	21	16	46.43	20170130	20190129
2474613	24F06	22	13	46.42	20170130	20190129
2474614	24F06	22	14	46.42	20170130	20190129
2474615	24F06	22	15	46.42	20170130	20190129
2474616	24F06	22	16	46.42	20170130	20190129
2474617	24F06	23	13	46.41	20170130	20190129
2474618	24F06	23	14	46.41	20170130	20190129
2474619	24F06	23	15	46.41	20170130	20190129
2474620	24F06	23	16	46.41	20170130	20190129
2474621	24F06	24	13	46.4	20170130	20190129
2474622	24F06	24	14	46.4	20170130	20190129
2474623	24F06	24	15	46.4	20170130	20190129
2474624	24F06	24	16	46.4	20170130	20190129
2474625	24F06	25	13	46.39	20170130	20190129
2474626	24F06	25	14	46.39	20170130	20190129
2474627	24F06	25	15	46.39	20170130	20190129
2474628	24F06	25	16	46.39	20170130	20190129
2474629	24F06	26	13	46.38	20170130	20190129
2474630	24F06	26	14	46.38	20170130	20190129
2474631	24F06	26	15	46.38	20170130	20190129
2474632	24F06	26	16	46.38	20170130	20190129
2474633	24F06	27	13	46.37	20170130	20190129
2474634	24F06	27	14	46.37	20170130	20190129
2474635	24F06	27	15	46.37	20170130	20190129
2474636	24F06	27	16	46.37	20170130	20190129
2474637	24F06	28	13	46.36	20170130	20190129
2474638	24F06	28	14	46.36	20170130	20190129
2474639	24F06	28	15	46.36	20170130	20190129
2474640	24F06	28	16	46.36	20170130	20190129
2474641	24F06	29	13	46.35	20170130	20190129
2474642	24F06	29	14	46.35	20170130	20190129
2474643	24F06	29	15	46.35	20170130	20190129
2474644	24F06	29	16	46.35	20170130	20190129
2474645	24F06	30	13	46.34	20170130	20190129
2474646	24F06	30	14	46.34	20170130	20190129
2474647	24F06	30	15	46.34	20170130	20190129
2474648	24F06	30	16	46.34	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474649	24F05	19	60	46.45	20170130	20190129
2474650	24F05	20	60	46.44	20170130	20190129
2474651	24F05	21	60	46.43	20170130	20190129
2474652	24F05	22	60	46.42	20170130	20190129
2474653	24F05	23	60	46.41	20170130	20190129
2474654	24F05	24	60	46.4	20170130	20190129
2474655	24F05	25	60	46.39	20170130	20190129
2474656	24F05	26	60	46.38	20170130	20190129
2474657	24F05	27	60	46.37	20170130	20190129
2474658	24F05	28	60	46.36	20170130	20190129
2474659	24F05	29	60	46.35	20170130	20190129
2474660	24F05	30	60	46.34	20170130	20190129
2474661	24F06	18	7	46.46	20170130	20190129
2474662	24F06	18	8	46.46	20170130	20190129
2474663	24F06	18	9	46.46	20170130	20190129
2474664	24F06	18	10	46.46	20170130	20190129
2474665	24F06	18	11	46.46	20170130	20190129
2474666	24F06	18	12	46.46	20170130	20190129
2474667	24F06	19	1	46.45	20170130	20190129
2474668	24F06	19	2	46.45	20170130	20190129
2474669	24F06	19	3	46.45	20170130	20190129
2474670	24F06	19	4	46.45	20170130	20190129
2474671	24F06	19	5	46.45	20170130	20190129
2474672	24F06	19	6	46.45	20170130	20190129
2474673	24F06	19	7	46.45	20170130	20190129
2474674	24F06	19	8	46.45	20170130	20190129
2474675	24F06	19	9	46.45	20170130	20190129
2474676	24F06	19	10	46.45	20170130	20190129
2474677	24F06	19	11	46.45	20170130	20190129
2474678	24F06	19	12	46.45	20170130	20190129
2474679	24F06	20	1	46.44	20170130	20190129
2474680	24F06	20	2	46.44	20170130	20190129
2474681	24F06	20	3	46.44	20170130	20190129
2474682	24F06	20	4	46.44	20170130	20190129
2474683	24F06	20	5	46.44	20170130	20190129
2474684	24F06	20	6	46.44	20170130	20190129
2474685	24F06	20	7	46.44	20170130	20190129
2474686	24F06	20	8	46.44	20170130	20190129
2474687	24F06	20	9	46.44	20170130	20190129
2474688	24F06	20	10	46.44	20170130	20190129
2474689	24F06	20	11	46.44	20170130	20190129
2474690	24F06	20	12	46.44	20170130	20190129
2474691	24F06	21	1	46.43	20170130	20190129
2474692	24F06	21	2	46.43	20170130	20190129
2474693	24F06	21	3	46.43	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474694	24F06	21	4	46.43	20170130	20190129
2474695	24F06	21	5	46.43	20170130	20190129
2474696	24F06	21	6	46.43	20170130	20190129
2474697	24F06	21	7	46.43	20170130	20190129
2474698	24F06	21	8	46.43	20170130	20190129
2474699	24F06	21	9	46.43	20170130	20190129
2474700	24F06	21	10	46.43	20170130	20190129
2474701	24F06	21	11	46.43	20170130	20190129
2474702	24F06	21	12	46.43	20170130	20190129
2474703	24F06	22	1	46.42	20170130	20190129
2474704	24F06	22	2	46.42	20170130	20190129
2474705	24F06	22	3	46.42	20170130	20190129
2474706	24F06	22	4	46.42	20170130	20190129
2474707	24F06	22	5	46.42	20170130	20190129
2474708	24F06	22	6	46.42	20170130	20190129
2474709	24F06	22	7	46.42	20170130	20190129
2474710	24F06	22	8	46.42	20170130	20190129
2474711	24F06	22	9	46.42	20170130	20190129
2474712	24F06	22	10	46.42	20170130	20190129
2474713	24F06	22	11	46.42	20170130	20190129
2474714	24F06	22	12	46.42	20170130	20190129
2474715	24F06	23	1	46.41	20170130	20190129
2474716	24F06	23	2	46.41	20170130	20190129
2474717	24F06	23	3	46.41	20170130	20190129
2474718	24F06	23	4	46.41	20170130	20190129
2474719	24F06	23	5	46.41	20170130	20190129
2474720	24F06	23	6	46.41	20170130	20190129
2474721	24F06	23	7	46.41	20170130	20190129
2474722	24F06	23	8	46.41	20170130	20190129
2474723	24F06	23	9	46.41	20170130	20190129
2474724	24F06	23	10	46.41	20170130	20190129
2474725	24F06	23	11	46.41	20170130	20190129
2474726	24F06	23	12	46.41	20170130	20190129
2474727	24F06	24	1	46.4	20170130	20190129
2474728	24F06	24	2	46.4	20170130	20190129
2474729	24F06	24	3	46.4	20170130	20190129
2474730	24F06	24	4	46.4	20170130	20190129
2474731	24F06	24	5	46.4	20170130	20190129
2474732	24F06	24	6	46.4	20170130	20190129
2474733	24F06	24	7	46.4	20170130	20190129
2474734	24F06	24	8	46.4	20170130	20190129
2474735	24F06	24	9	46.4	20170130	20190129
2474736	24F06	24	10	46.4	20170130	20190129
2474737	24F06	24	11	46.4	20170130	20190129
2474738	24F06	24	12	46.4	20170130	20190129



APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474739	24F06	25	1	46.39	20170130	20190129
2474740	24F06	25	2	46.39	20170130	20190129
2474741	24F06	25	3	46.39	20170130	20190129
2474742	24F06	25	4	46.39	20170130	20190129
2474743	24F06	25	5	46.39	20170130	20190129
2474744	24F06	25	6	46.39	20170130	20190129
2474745	24F06	25	7	46.39	20170130	20190129
2474746	24F06	25	8	46.39	20170130	20190129
2474747	24F06	25	9	46.39	20170130	20190129
2474748	24F06	25	10	46.39	20170130	20190129
2474749	24F06	25	11	46.39	20170130	20190129
2474750	24F06	25	12	46.39	20170130	20190129
2474751	24F06	26	1	46.38	20170130	20190129
2474752	24F06	26	2	46.38	20170130	20190129
2474753	24F06	26	3	46.38	20170130	20190129
2474754	24F06	26	4	46.38	20170130	20190129
2474755	24F06	26	5	46.38	20170130	20190129
2474756	24F06	26	6	46.38	20170130	20190129
2474757	24F06	26	7	46.38	20170130	20190129
2474758	24F06	26	8	46.38	20170130	20190129
2474759	24F06	26	9	46.38	20170130	20190129
2474760	24F06	26	10	46.38	20170130	20190129
2474761	24F06	26	11	46.38	20170130	20190129
2474762	24F06	26	12	46.38	20170130	20190129
2474763	24F06	27	1	46.37	20170130	20190129
2474764	24F06	27	2	46.37	20170130	20190129
2474765	24F06	27	3	46.37	20170130	20190129
2474766	24F06	27	4	46.37	20170130	20190129
2474767	24F06	27	5	46.37	20170130	20190129
2474768	24F06	27	6	46.37	20170130	20190129
2474769	24F06	27	7	46.37	20170130	20190129
2474770	24F06	27	8	46.37	20170130	20190129
2474771	24F06	27	9	46.37	20170130	20190129
2474772	24F06	27	10	46.37	20170130	20190129
2474773	24F06	27	11	46.37	20170130	20190129
2474774	24F06	27	12	46.37	20170130	20190129
2474775	24F06	28	1	46.36	20170130	20190129
2474776	24F06	28	2	46.36	20170130	20190129
2474777	24F06	28	3	46.36	20170130	20190129
2474778	24F06	28	4	46.36	20170130	20190129
2474779	24F06	28	5	46.36	20170130	20190129
2474780	24F06	28	6	46.36	20170130	20190129
2474781	24F06	28	7	46.36	20170130	20190129
2474782	24F06	28	8	46.36	20170130	20190129
2474783	24F06	28	9	46.36	20170130	20190129

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474784	24F06	28	10	46.36	20170130	20190129
2474785	24F06	28	11	46.36	20170130	20190129
2474786	24F06	28	12	46.36	20170130	20190129
2474787	24F06	29	1	46.35	20170130	20190129
2474788	24F06	29	2	46.35	20170130	20190129
2474789	24F06	29	3	46.35	20170130	20190129
2474790	24F06	29	4	46.35	20170130	20190129
2474791	24F06	29	5	46.35	20170130	20190129
2474792	24F06	29	6	46.35	20170130	20190129
2474793	24F06	29	7	46.35	20170130	20190129
2474794	24F06	29	8	46.35	20170130	20190129
2474795	24F06	29	9	46.35	20170130	20190129
2474796	24F06	29	10	46.35	20170130	20190129
2474797	24F06	29	11	46.35	20170130	20190129
2474798	24F06	29	12	46.35	20170130	20190129
2474799	24F06	30	1	46.34	20170130	20190129
2474800	24F06	30	2	46.34	20170130	20190129
2474801	24F06	30	3	46.34	20170130	20190129
2474802	24F06	30	4	46.34	20170130	20190129
2474803	24F06	30	5	46.34	20170130	20190129
2474804	24F06	30	6	46.34	20170130	20190129
2474805	24F06	30	7	46.34	20170130	20190129
2474806	24F06	30	8	46.34	20170130	20190129
2474807	24F06	30	9	46.34	20170130	20190129
2474808	24F06	30	10	46.34	20170130	20190129
2474809	24F06	30	11	46.34	20170130	20190129
2474810	24F06	30	12	46.34	20170130	20190129
2474811	24F05	8	60	46.57	20170131	20190130
2474812	24F05	9	60	46.56	20170131	20190130
2474813	24F05	15	60	46.5	20170131	20190130
2474814	24F05	16	60	46.48	20170131	20190130
2474815	24F05	17	60	46.47	20170131	20190130
2474816	24F05	18	60	46.46	20170131	20190130
2474817	24F06	8	1	46.57	20170131	20190130
2474818	24F06	8	2	46.57	20170131	20190130
2474819	24F06	8	3	46.57	20170131	20190130
2474820	24F06	8	4	46.57	20170131	20190130
2474821	24F06	8	5	46.57	20170131	20190130
2474822	24F06	8	6	46.57	20170131	20190130
2474823	24F06	8	7	46.57	20170131	20190130
2474824	24F06	8	8	46.57	20170131	20190130
2474825	24F06	8	9	46.57	20170131	20190130
2474826	24F06	8	10	46.57	20170131	20190130
2474827	24F06	8	11	46.57	20170131	20190130
2474828	24F06	8	12	46.57	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474829	24F06	8	13	46.57	20170131	20190130
2474830	24F06	8	14	46.57	20170131	20190130
2474831	24F06	9	1	46.56	20170131	20190130
2474832	24F06	9	2	46.56	20170131	20190130
2474833	24F06	9	3	46.56	20170131	20190130
2474834	24F06	9	4	46.56	20170131	20190130
2474835	24F06	9	5	46.56	20170131	20190130
2474836	24F06	9	6	46.56	20170131	20190130
2474837	24F06	9	7	46.56	20170131	20190130
2474838	24F06	9	8	46.56	20170131	20190130
2474839	24F06	9	9	46.56	20170131	20190130
2474840	24F06	9	10	46.56	20170131	20190130
2474841	24F06	9	11	46.56	20170131	20190130
2474842	24F06	9	12	46.56	20170131	20190130
2474843	24F06	9	13	46.56	20170131	20190130
2474844	24F06	9	14	46.56	20170131	20190130
2474845	24F06	10	4	46.55	20170131	20190130
2474846	24F06	10	5	46.55	20170131	20190130
2474847	24F06	10	6	46.55	20170131	20190130
2474848	24F06	10	7	46.55	20170131	20190130
2474849	24F06	10	8	46.55	20170131	20190130
2474850	24F06	10	9	46.55	20170131	20190130
2474851	24F06	10	10	46.55	20170131	20190130
2474852	24F06	10	11	46.55	20170131	20190130
2474853	24F06	10	12	46.55	20170131	20190130
2474854	24F06	10	13	46.55	20170131	20190130
2474855	24F06	10	14	46.55	20170131	20190130
2474856	24F06	11	4	46.54	20170131	20190130
2474857	24F06	11	5	46.54	20170131	20190130
2474858	24F06	11	6	46.54	20170131	20190130
2474859	24F06	11	7	46.54	20170131	20190130
2474860	24F06	11	8	46.54	20170131	20190130
2474861	24F06	11	9	46.54	20170131	20190130
2474862	24F06	11	10	46.54	20170131	20190130
2474863	24F06	11	11	46.54	20170131	20190130
2474864	24F06	11	12	46.54	20170131	20190130
2474865	24F06	11	13	46.54	20170131	20190130
2474866	24F06	11	14	46.54	20170131	20190130
2474867	24F06	12	4	46.53	20170131	20190130
2474868	24F06	12	5	46.53	20170131	20190130
2474869	24F06	12	6	46.53	20170131	20190130
2474870	24F06	12	7	46.53	20170131	20190130
2474871	24F06	12	8	46.53	20170131	20190130
2474872	24F06	12	9	46.53	20170131	20190130
2474873	24F06	12	10	46.53	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474874	24F06	12	11	46.53	20170131	20190130
2474875	24F06	12	12	46.53	20170131	20190130
2474876	24F06	12	13	46.53	20170131	20190130
2474877	24F06	12	14	46.53	20170131	20190130
2474878	24F06	13	4	46.52	20170131	20190130
2474879	24F06	13	5	46.52	20170131	20190130
2474880	24F06	13	6	46.52	20170131	20190130
2474881	24F06	13	7	46.52	20170131	20190130
2474882	24F06	13	8	46.52	20170131	20190130
2474883	24F06	13	9	46.52	20170131	20190130
2474884	24F06	13	10	46.52	20170131	20190130
2474885	24F06	13	11	46.52	20170131	20190130
2474886	24F06	13	12	46.52	20170131	20190130
2474887	24F06	13	13	46.52	20170131	20190130
2474888	24F06	13	14	46.52	20170131	20190130
2474889	24F06	14	4	46.51	20170131	20190130
2474890	24F06	14	5	46.51	20170131	20190130
2474891	24F06	14	6	46.51	20170131	20190130
2474892	24F06	14	7	46.51	20170131	20190130
2474893	24F06	14	8	46.51	20170131	20190130
2474894	24F06	14	9	46.51	20170131	20190130
2474895	24F06	14	10	46.51	20170131	20190130
2474896	24F06	14	11	46.51	20170131	20190130
2474897	24F06	14	12	46.51	20170131	20190130
2474898	24F06	14	13	46.51	20170131	20190130
2474899	24F06	14	14	46.51	20170131	20190130
2474900	24F06	15	1	46.5	20170131	20190130
2474901	24F06	15	2	46.5	20170131	20190130
2474902	24F06	15	3	46.5	20170131	20190130
2474903	24F06	15	4	46.5	20170131	20190130
2474904	24F06	15	5	46.5	20170131	20190130
2474905	24F06	15	6	46.5	20170131	20190130
2474906	24F06	15	7	46.5	20170131	20190130
2474907	24F06	15	8	46.49	20170131	20190130
2474908	24F06	15	9	46.49	20170131	20190130
2474909	24F06	15	10	46.49	20170131	20190130
2474910	24F06	15	11	46.49	20170131	20190130
2474911	24F06	15	12	46.49	20170131	20190130
2474912	24F06	15	13	46.49	20170131	20190130
2474913	24F06	15	14	46.49	20170131	20190130
2474914	24F06	16	1	46.48	20170131	20190130
2474915	24F06	16	2	46.48	20170131	20190130
2474916	24F06	16	3	46.48	20170131	20190130
2474917	24F06	16	4	46.48	20170131	20190130
2474918	24F06	16	5	46.48	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474919	24F06	16	6	46.48	20170131	20190130
2474920	24F06	16	7	46.48	20170131	20190130
2474921	24F06	16	8	46.48	20170131	20190130
2474922	24F06	16	9	46.48	20170131	20190130
2474923	24F06	16	10	46.48	20170131	20190130
2474924	24F06	16	11	46.48	20170131	20190130
2474925	24F06	16	12	46.48	20170131	20190130
2474926	24F06	16	13	46.48	20170131	20190130
2474927	24F06	17	1	46.47	20170131	20190130
2474928	24F06	17	2	46.47	20170131	20190130
2474929	24F06	17	3	46.47	20170131	20190130
2474930	24F06	17	4	46.47	20170131	20190130
2474931	24F06	17	5	46.47	20170131	20190130
2474932	24F06	17	6	46.47	20170131	20190130
2474933	24F06	17	7	46.47	20170131	20190130
2474934	24F06	17	8	46.47	20170131	20190130
2474935	24F06	17	9	46.47	20170131	20190130
2474936	24F06	17	10	46.47	20170131	20190130
2474937	24F06	17	11	46.47	20170131	20190130
2474938	24F06	17	12	46.47	20170131	20190130
2474939	24F06	18	1	46.46	20170131	20190130
2474940	24F06	18	2	46.46	20170131	20190130
2474941	24F06	18	3	46.46	20170131	20190130
2474942	24F06	18	4	46.46	20170131	20190130
2474943	24F06	18	5	46.46	20170131	20190130
2474944	24F06	18	6	46.46	20170131	20190130
2474945	24F06	1	47	46.64	20170131	20190130
2474946	24F06	1	48	46.64	20170131	20190130
2474947	24F06	1	49	46.64	20170131	20190130
2474948	24F06	1	50	46.64	20170131	20190130
2474949	24F06	1	51	46.64	20170131	20190130
2474950	24F06	1	52	46.64	20170131	20190130
2474951	24F06	1	53	46.64	20170131	20190130
2474952	24F06	1	54	46.64	20170131	20190130
2474953	24F06	1	55	46.64	20170131	20190130
2474954	24F06	1	56	46.64	20170131	20190130
2474955	24F06	1	57	46.64	20170131	20190130
2474956	24F06	1	58	46.64	20170131	20190130
2474957	24F06	1	59	46.64	20170131	20190130
2474958	24F06	1	60	46.64	20170131	20190130
2474959	24F06	2	46	46.63	20170131	20190130
2474960	24F06	2	47	46.63	20170131	20190130
2474961	24F06	2	48	46.63	20170131	20190130
2474962	24F06	2	49	46.63	20170131	20190130
2474963	24F06	2	50	46.63	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2474964	24F06	2	51	46.63	20170131	20190130
2474965	24F06	2	52	46.63	20170131	20190130
2474966	24F06	2	53	46.63	20170131	20190130
2474967	24F06	2	54	46.63	20170131	20190130
2474968	24F06	2	55	46.63	20170131	20190130
2474969	24F06	2	56	46.63	20170131	20190130
2474970	24F06	2	57	46.63	20170131	20190130
2474971	24F06	2	58	46.63	20170131	20190130
2474972	24F06	2	59	46.63	20170131	20190130
2474973	24F06	2	60	46.63	20170131	20190130
2474974	24F06	3	44	46.62	20170131	20190130
2474975	24F06	3	45	46.62	20170131	20190130
2474976	24F06	3	46	46.62	20170131	20190130
2474977	24F06	3	47	46.62	20170131	20190130
2474978	24F06	3	48	46.62	20170131	20190130
2474979	24F06	3	49	46.62	20170131	20190130
2474980	24F06	3	50	46.62	20170131	20190130
2474981	24F06	3	51	46.62	20170131	20190130
2474982	24F06	3	52	46.62	20170131	20190130
2474983	24F06	3	53	46.62	20170131	20190130
2474984	24F06	3	54	46.62	20170131	20190130
2474985	24F06	3	55	46.62	20170131	20190130
2474986	24F06	3	56	46.62	20170131	20190130
2474987	24F06	3	58	46.62	20170131	20190130
2474988	24F06	3	59	46.62	20170131	20190130
2474989	24F06	3	60	46.62	20170131	20190130
2474990	24F06	4	42	46.61	20170131	20190130
2474991	24F06	4	43	46.61	20170131	20190130
2474992	24F06	4	44	46.61	20170131	20190130
2474993	24F06	4	45	46.61	20170131	20190130
2474994	24F06	4	46	46.61	20170131	20190130
2474995	24F06	4	47	46.61	20170131	20190130
2474996	24F06	4	48	46.61	20170131	20190130
2474997	24F06	4	49	46.61	20170131	20190130
2474998	24F06	4	50	46.61	20170131	20190130
2474999	24F06	4	51	46.61	20170131	20190130
2475000	24F06	4	52	46.61	20170131	20190130
2475001	24F06	4	53	46.61	20170131	20190130
2475002	24F06	4	54	46.61	20170131	20190130
2475003	24F06	4	59	46.61	20170131	20190130
2475004	24F06	4	60	46.61	20170131	20190130
2475005	24F06	5	42	46.6	20170131	20190130
2475006	24F06	5	43	46.6	20170131	20190130
2475007	24F06	5	44	46.6	20170131	20190130
2475008	24F06	5	45	46.6	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475009	24F06	5	46	46.6	20170131	20190130
2475010	24F06	5	47	46.6	20170131	20190130
2475011	24F06	5	48	46.6	20170131	20190130
2475012	24F06	5	49	46.6	20170131	20190130
2475013	24F06	5	50	46.6	20170131	20190130
2475014	24F06	5	51	46.6	20170131	20190130
2475015	24F06	5	52	46.6	20170131	20190130
2475016	24F06	5	53	46.6	20170131	20190130
2475017	24F06	6	41	46.59	20170131	20190130
2475018	24F06	6	42	46.59	20170131	20190130
2475019	24F06	6	43	46.59	20170131	20190130
2475020	24F06	6	44	46.59	20170131	20190130
2475021	24F06	6	45	46.59	20170131	20190130
2475022	24F06	6	46	46.59	20170131	20190130
2475023	24F06	6	47	46.59	20170131	20190130
2475024	24F06	6	48	46.59	20170131	20190130
2475025	24F06	6	49	46.59	20170131	20190130
2475026	24F06	6	50	46.59	20170131	20190130
2475027	24F06	6	51	46.59	20170131	20190130
2475028	24F06	6	52	46.59	20170131	20190130
2475029	24F06	6	53	46.59	20170131	20190130
2475030	24F06	7	41	46.58	20170131	20190130
2475031	24F06	7	42	46.58	20170131	20190130
2475032	24F06	7	43	46.58	20170131	20190130
2475033	24F06	7	44	46.58	20170131	20190130
2475034	24F06	7	45	46.58	20170131	20190130
2475035	24F06	7	46	46.58	20170131	20190130
2475036	24F06	7	47	46.58	20170131	20190130
2475037	24F06	7	48	46.58	20170131	20190130
2475038	24F06	7	49	46.58	20170131	20190130
2475039	24F06	7	50	46.58	20170131	20190130
2475040	24F06	7	51	46.58	20170131	20190130
2475041	24F06	7	52	46.58	20170131	20190130
2475042	24F06	7	53	46.58	20170131	20190130
2475043	24F06	8	39	46.57	20170131	20190130
2475044	24F06	8	40	46.57	20170131	20190130
2475045	24F06	9	38	46.56	20170131	20190130
2475046	24F06	9	39	46.56	20170131	20190130
2475047	24F06	9	40	46.56	20170131	20190130
2475048	24F06	17	57	46.47	20170131	20190130
2475049	24F06	17	58	46.47	20170131	20190130
2475050	24F06	17	59	46.47	20170131	20190130
2475051	24F06	17	60	46.47	20170131	20190130
2475052	24F06	18	57	46.46	20170131	20190130
2475053	24F06	18	58	46.46	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475054	24F06	18	59	46.46	20170131	20190130
2475055	24F06	18	60	46.46	20170131	20190130
2475056	24F06	19	57	46.45	20170131	20190130
2475057	24F06	19	58	46.45	20170131	20190130
2475058	24F06	19	59	46.45	20170131	20190130
2475059	24F06	19	60	46.45	20170131	20190130
2475060	24F06	20	57	46.44	20170131	20190130
2475061	24F06	20	59	46.44	20170131	20190130
2475062	24F06	20	60	46.44	20170131	20190130
2475063	24F06	21	57	46.43	20170131	20190130
2475064	24F06	21	58	46.43	20170131	20190130
2475065	24F06	21	59	46.43	20170131	20190130
2475066	24F06	21	60	46.43	20170131	20190130
2475067	24F06	22	57	46.42	20170131	20190130
2475068	24F06	22	58	46.42	20170131	20190130
2475069	24F06	22	59	46.42	20170131	20190130
2475070	24F06	22	60	46.42	20170131	20190130
2475071	24F06	25	60	46.39	20170131	20190130
2475072	24F06	26	59	46.38	20170131	20190130
2475073	24F06	26	60	46.38	20170131	20190130
2475074	24F06	27	58	46.37	20170131	20190130
2475075	24F06	27	59	46.37	20170131	20190130
2475076	24F06	27	60	46.37	20170131	20190130
2475077	24F06	28	58	46.36	20170131	20190130
2475078	24F06	28	59	46.36	20170131	20190130
2475079	24F06	28	60	46.36	20170131	20190130
2475080	24F06	29	58	46.35	20170131	20190130
2475081	24F06	29	59	46.35	20170131	20190130
2475082	24F06	29	60	46.35	20170131	20190130
2475083	24F06	30	58	46.34	20170131	20190130
2475084	24F06	30	59	46.34	20170131	20190130
2475085	24F06	30	60	46.34	20170131	20190130
2475086	24F02	26	1	46.69	20170131	20190130
2475087	24F02	26	2	46.69	20170131	20190130
2475088	24F02	26	3	46.69	20170131	20190130
2475089	24F02	26	4	46.69	20170131	20190130
2475090	24F02	26	5	46.69	20170131	20190130
2475091	24F02	26	6	46.69	20170131	20190130
2475092	24F02	26	7	46.69	20170131	20190130
2475093	24F02	26	8	46.69	20170131	20190130
2475094	24F02	26	9	46.69	20170131	20190130
2475095	24F02	26	10	46.69	20170131	20190130
2475096	24F02	26	11	46.69	20170131	20190130
2475097	24F02	26	12	46.69	20170131	20190130
2475098	24F02	26	13	46.69	20170131	20190130



APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475099	24F02	26	14	46.69	20170131	20190130
2475100	24F02	26	15	46.69	20170131	20190130
2475101	24F02	26	16	46.69	20170131	20190130
2475102	24F02	26	17	46.69	20170131	20190130
2475103	24F02	26	18	46.69	20170131	20190130
2475104	24F02	26	19	46.69	20170131	20190130
2475105	24F02	26	20	46.69	20170131	20190130
2475106	24F02	27	1	46.68	20170131	20190130
2475107	24F02	27	2	46.68	20170131	20190130
2475108	24F02	27	3	46.68	20170131	20190130
2475109	24F02	27	4	46.68	20170131	20190130
2475110	24F02	27	5	46.68	20170131	20190130
2475111	24F02	27	6	46.68	20170131	20190130
2475112	24F02	27	7	46.68	20170131	20190130
2475113	24F02	27	8	46.68	20170131	20190130
2475114	24F02	27	9	46.68	20170131	20190130
2475115	24F02	27	10	46.68	20170131	20190130
2475116	24F02	27	11	46.68	20170131	20190130
2475117	24F02	27	12	46.68	20170131	20190130
2475118	24F02	27	13	46.68	20170131	20190130
2475119	24F02	27	14	46.68	20170131	20190130
2475120	24F02	27	15	46.68	20170131	20190130
2475121	24F02	27	16	46.68	20170131	20190130
2475122	24F02	27	17	46.68	20170131	20190130
2475123	24F02	27	18	46.68	20170131	20190130
2475124	24F02	27	19	46.68	20170131	20190130
2475125	24F02	27	20	46.68	20170131	20190130
2475126	24F02	28	1	46.67	20170131	20190130
2475127	24F02	28	2	46.67	20170131	20190130
2475128	24F02	28	3	46.67	20170131	20190130
2475129	24F02	28	4	46.67	20170131	20190130
2475130	24F02	28	5	46.67	20170131	20190130
2475131	24F02	28	6	46.67	20170131	20190130
2475132	24F02	28	7	46.67	20170131	20190130
2475133	24F02	28	8	46.67	20170131	20190130
2475134	24F02	28	9	46.67	20170131	20190130
2475135	24F02	28	10	46.67	20170131	20190130
2475136	24F02	28	11	46.67	20170131	20190130
2475137	24F02	28	12	46.67	20170131	20190130
2475138	24F02	28	13	46.67	20170131	20190130
2475139	24F02	28	14	46.67	20170131	20190130
2475140	24F02	28	15	46.67	20170131	20190130
2475141	24F02	28	16	46.67	20170131	20190130
2475142	24F02	28	17	46.67	20170131	20190130
2475143	24F02	28	18	46.67	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475144	24F02	28	19	46.67	20170131	20190130
2475145	24F02	28	20	46.67	20170131	20190130
2475146	24F02	29	1	46.66	20170131	20190130
2475147	24F02	29	2	46.66	20170131	20190130
2475148	24F02	29	3	46.66	20170131	20190130
2475149	24F02	29	4	46.66	20170131	20190130
2475150	24F02	29	5	46.66	20170131	20190130
2475151	24F02	29	6	46.66	20170131	20190130
2475152	24F02	29	7	46.66	20170131	20190130
2475153	24F02	29	8	46.66	20170131	20190130
2475154	24F02	29	9	46.66	20170131	20190130
2475155	24F02	29	10	46.66	20170131	20190130
2475156	24F02	29	11	46.66	20170131	20190130
2475157	24F02	29	12	46.66	20170131	20190130
2475158	24F02	29	13	46.66	20170131	20190130
2475159	24F02	29	14	46.66	20170131	20190130
2475160	24F02	29	15	46.66	20170131	20190130
2475161	24F02	29	16	46.66	20170131	20190130
2475162	24F02	29	17	46.66	20170131	20190130
2475163	24F02	29	18	46.66	20170131	20190130
2475164	24F02	29	19	46.66	20170131	20190130
2475165	24F02	29	20	46.66	20170131	20190130
2475166	24F02	30	1	46.65	20170131	20190130
2475167	24F02	30	2	46.65	20170131	20190130
2475168	24F02	30	3	46.65	20170131	20190130
2475169	24F02	30	4	46.65	20170131	20190130
2475170	24F02	30	5	46.65	20170131	20190130
2475171	24F02	30	6	46.65	20170131	20190130
2475172	24F02	30	7	46.65	20170131	20190130
2475173	24F02	30	8	46.65	20170131	20190130
2475174	24F02	30	9	46.65	20170131	20190130
2475175	24F02	30	10	46.65	20170131	20190130
2475176	24F02	30	11	46.65	20170131	20190130
2475177	24F02	30	12	46.65	20170131	20190130
2475178	24F02	30	13	46.65	20170131	20190130
2475179	24F02	30	14	46.65	20170131	20190130
2475180	24F02	30	15	46.65	20170131	20190130
2475181	24F02	30	16	46.65	20170131	20190130
2475182	24F02	30	17	46.65	20170131	20190130
2475183	24F02	30	18	46.65	20170131	20190130
2475184	24F03	26	54	46.69	20170131	20190130
2475185	24F03	26	55	46.69	20170131	20190130
2475186	24F03	26	56	46.69	20170131	20190130
2475187	24F03	26	57	46.69	20170131	20190130
2475188	24F03	26	58	46.69	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475189	24F03	26	59	46.69	20170131	20190130
2475190	24F03	26	60	46.69	20170131	20190130
2475191	24F03	27	52	46.68	20170131	20190130
2475192	24F03	27	53	46.68	20170131	20190130
2475193	24F03	27	54	46.68	20170131	20190130
2475194	24F03	27	55	46.68	20170131	20190130
2475195	24F03	27	56	46.68	20170131	20190130
2475196	24F03	27	57	46.68	20170131	20190130
2475197	24F03	27	58	46.68	20170131	20190130
2475198	24F03	27	59	46.68	20170131	20190130
2475199	24F03	27	60	46.68	20170131	20190130
2475200	24F03	28	50	46.67	20170131	20190130
2475201	24F03	28	51	46.67	20170131	20190130
2475202	24F03	28	52	46.67	20170131	20190130
2475203	24F03	28	53	46.67	20170131	20190130
2475204	24F03	28	54	46.67	20170131	20190130
2475205	24F03	28	55	46.67	20170131	20190130
2475206	24F03	28	56	46.67	20170131	20190130
2475207	24F03	28	57	46.67	20170131	20190130
2475208	24F03	28	58	46.67	20170131	20190130
2475209	24F03	28	59	46.67	20170131	20190130
2475210	24F03	28	60	46.67	20170131	20190130
2475211	24F03	29	49	46.66	20170131	20190130
2475212	24F03	29	50	46.66	20170131	20190130
2475213	24F03	29	51	46.66	20170131	20190130
2475214	24F03	29	52	46.66	20170131	20190130
2475215	24F03	29	53	46.66	20170131	20190130
2475216	24F03	29	54	46.66	20170131	20190130
2475217	24F03	29	55	46.66	20170131	20190130
2475218	24F03	29	56	46.66	20170131	20190130
2475219	24F03	29	57	46.66	20170131	20190130
2475220	24F03	29	58	46.66	20170131	20190130
2475221	24F03	29	59	46.66	20170131	20190130
2475222	24F03	29	60	46.66	20170131	20190130
2475223	24F03	30	48	46.65	20170131	20190130
2475224	24F03	30	49	46.65	20170131	20190130
2475225	24F03	30	50	46.65	20170131	20190130
2475226	24F03	30	51	46.65	20170131	20190130
2475227	24F03	30	52	46.65	20170131	20190130
2475228	24F03	30	53	46.65	20170131	20190130
2475229	24F03	30	54	46.65	20170131	20190130
2475230	24F03	30	55	46.65	20170131	20190130
2475231	24F03	30	56	46.65	20170131	20190130
2475232	24F03	30	57	46.65	20170131	20190130
2475233	24F03	30	58	46.65	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475234	24F03	30	59	46.65	20170131	20190130
2475235	24F03	30	60	46.65	20170131	20190130
2475236	24F07	1	1	46.64	20170131	20190130
2475237	24F07	1	2	46.64	20170131	20190130
2475238	24F07	1	3	46.64	20170131	20190130
2475239	24F07	1	4	46.64	20170131	20190130
2475240	24F07	1	5	46.64	20170131	20190130
2475241	24F07	1	6	46.64	20170131	20190130
2475242	24F07	1	7	46.64	20170131	20190130
2475243	24F07	1	8	46.64	20170131	20190130
2475244	24F07	1	9	46.64	20170131	20190130
2475245	24F07	1	10	46.64	20170131	20190130
2475246	24F07	1	11	46.64	20170131	20190130
2475247	24F07	1	12	46.64	20170131	20190130
2475248	24F07	1	13	46.64	20170131	20190130
2475249	24F07	1	14	46.64	20170131	20190130
2475250	24F07	1	15	46.64	20170131	20190130
2475251	24F07	1	16	46.64	20170131	20190130
2475252	24F07	1	17	46.64	20170131	20190130
2475253	24F07	1	18	46.64	20170131	20190130
2475254	24F07	2	1	46.63	20170131	20190130
2475255	24F07	2	2	46.63	20170131	20190130
2475256	24F07	2	3	46.63	20170131	20190130
2475257	24F07	2	4	46.63	20170131	20190130
2475258	24F07	2	5	46.63	20170131	20190130
2475259	24F07	2	6	46.63	20170131	20190130
2475260	24F07	2	7	46.63	20170131	20190130
2475261	24F07	2	8	46.63	20170131	20190130
2475262	24F07	2	9	46.63	20170131	20190130
2475263	24F07	2	10	46.63	20170131	20190130
2475264	24F07	2	11	46.63	20170131	20190130
2475265	24F07	2	12	46.63	20170131	20190130
2475266	24F07	2	13	46.63	20170131	20190130
2475267	24F07	2	14	46.63	20170131	20190130
2475268	24F07	2	15	46.63	20170131	20190130
2475269	24F07	2	16	46.63	20170131	20190130
2475270	24F07	3	1	46.62	20170131	20190130
2475271	24F07	3	2	46.62	20170131	20190130
2475272	24F07	3	3	46.62	20170131	20190130
2475273	24F07	3	4	46.62	20170131	20190130
2475274	24F07	4	1	46.61	20170131	20190130
2475275	24F07	4	2	46.61	20170131	20190130
2475276	24F07	4	3	46.61	20170131	20190130
2475277	24F07	4	4	46.61	20170131	20190130
2475278	24F07	5	1	46.6	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475279	24F07	5	2	46.6	20170131	20190130
2475280	24F07	5	3	46.6	20170131	20190130
2475281	24F07	5	4	46.6	20170131	20190130
2475282	24F07	17	1	46.47	20170131	20190130
2475283	24F07	17	2	46.47	20170131	20190130
2475284	24F07	17	3	46.47	20170131	20190130
2475285	24F07	17	4	46.47	20170131	20190130
2475286	24F07	17	5	46.47	20170131	20190130
2475287	24F07	17	6	46.47	20170131	20190130
2475288	24F07	17	7	46.47	20170131	20190130
2475289	24F07	18	1	46.46	20170131	20190130
2475290	24F07	18	2	46.46	20170131	20190130
2475291	24F07	18	3	46.46	20170131	20190130
2475292	24F07	18	4	46.46	20170131	20190130
2475293	24F07	18	5	46.46	20170131	20190130
2475294	24F07	18	6	46.46	20170131	20190130
2475295	24F07	18	7	46.46	20170131	20190130
2475296	24F07	19	1	46.45	20170131	20190130
2475297	24F07	19	2	46.45	20170131	20190130
2475298	24F07	19	3	46.45	20170131	20190130
2475299	24F07	19	4	46.45	20170131	20190130
2475300	24F07	19	5	46.45	20170131	20190130
2475301	24F07	19	6	46.45	20170131	20190130
2475302	24F07	19	7	46.45	20170131	20190130
2475303	24F07	20	1	46.44	20170131	20190130
2475304	24F07	20	2	46.44	20170131	20190130
2475305	24F07	20	3	46.44	20170131	20190130
2475306	24F07	20	4	46.44	20170131	20190130
2475307	24F07	20	5	46.44	20170131	20190130
2475308	24F07	20	6	46.44	20170131	20190130
2475309	24F07	20	7	46.44	20170131	20190130
2475310	24F07	21	1	46.43	20170131	20190130
2475311	24F07	21	2	46.43	20170131	20190130
2475312	24F07	21	3	46.43	20170131	20190130
2475313	24F07	21	4	46.43	20170131	20190130
2475314	24F07	21	5	46.43	20170131	20190130
2475315	24F07	21	6	46.43	20170131	20190130
2475316	24F07	21	7	46.43	20170131	20190130
2475317	24F07	22	1	46.42	20170131	20190130
2475318	24F07	22	2	46.42	20170131	20190130
2475319	24F07	22	3	46.42	20170131	20190130
2475320	24F07	22	4	46.42	20170131	20190130
2475321	24F07	22	5	46.42	20170131	20190130
2475322	24F07	22	6	46.42	20170131	20190130
2475323	24F07	22	7	46.42	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475324	24F07	23	1	46.41	20170131	20190130
2475325	24F07	23	2	46.41	20170131	20190130
2475326	24F07	23	3	46.41	20170131	20190130
2475327	24F07	23	4	46.41	20170131	20190130
2475328	24F07	23	5	46.41	20170131	20190130
2475329	24F07	23	6	46.41	20170131	20190130
2475330	24F07	23	7	46.41	20170131	20190130
2475331	24F07	24	1	46.4	20170131	20190130
2475332	24F07	24	2	46.4	20170131	20190130
2475333	24F07	24	3	46.4	20170131	20190130
2475334	24F07	24	4	46.4	20170131	20190130
2475335	24F07	24	5	46.4	20170131	20190130
2475336	24F07	24	6	46.4	20170131	20190130
2475337	24F07	24	7	46.4	20170131	20190130
2475338	24F07	25	1	46.39	20170131	20190130
2475339	24F07	25	2	46.39	20170131	20190130
2475340	24F07	25	3	46.39	20170131	20190130
2475341	24F07	25	4	46.39	20170131	20190130
2475342	24F07	25	5	46.39	20170131	20190130
2475343	24F07	25	6	46.39	20170131	20190130
2475344	24F07	25	7	46.39	20170131	20190130
2475345	24F07	25	8	46.39	20170131	20190130
2475346	24F07	26	1	46.38	20170131	20190130
2475347	24F07	26	2	46.38	20170131	20190130
2475348	24F07	26	3	46.38	20170131	20190130
2475349	24F07	26	4	46.38	20170131	20190130
2475350	24F07	26	5	46.38	20170131	20190130
2475351	24F07	26	6	46.38	20170131	20190130
2475352	24F07	26	7	46.38	20170131	20190130
2475353	24F07	26	8	46.38	20170131	20190130
2475354	24F07	27	1	46.37	20170131	20190130
2475355	24F07	27	2	46.37	20170131	20190130
2475356	24F07	27	3	46.37	20170131	20190130
2475357	24F07	27	4	46.37	20170131	20190130
2475358	24F07	27	5	46.37	20170131	20190130
2475359	24F07	27	6	46.37	20170131	20190130
2475360	24F07	27	7	46.37	20170131	20190130
2475361	24F07	27	8	46.37	20170131	20190130
2475362	24F07	28	1	46.36	20170131	20190130
2475363	24F07	28	2	46.36	20170131	20190130
2475364	24F07	28	3	46.36	20170131	20190130
2475365	24F07	28	4	46.36	20170131	20190130
2475366	24F07	28	5	46.36	20170131	20190130
2475367	24F07	28	6	46.36	20170131	20190130
2475368	24F07	28	7	46.36	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475369	24F07	28	8	46.36	20170131	20190130
2475370	24F07	29	1	46.35	20170131	20190130
2475371	24F07	29	2	46.35	20170131	20190130
2475372	24F07	29	3	46.35	20170131	20190130
2475373	24F07	29	4	46.35	20170131	20190130
2475374	24F07	29	5	46.35	20170131	20190130
2475375	24F07	29	6	46.35	20170131	20190130
2475376	24F07	29	7	46.35	20170131	20190130
2475377	24F07	29	8	46.35	20170131	20190130
2475378	24F07	30	1	46.34	20170131	20190130
2475379	24F07	30	2	46.34	20170131	20190130
2475380	24F07	30	3	46.34	20170131	20190130
2475381	24F07	30	4	46.34	20170131	20190130
2475382	24F07	30	5	46.34	20170131	20190130
2475383	24F07	30	6	46.34	20170131	20190130
2475384	24F07	30	7	46.34	20170131	20190130
2475385	24F07	30	8	46.34	20170131	20190130
2475386	24F10	1	1	46.33	20170131	20190130
2475387	24F10	1	2	46.33	20170131	20190130
2475388	24F10	1	3	46.33	20170131	20190130
2475389	24F10	1	4	46.33	20170131	20190130
2475390	24F10	1	5	46.33	20170131	20190130
2475391	24F10	1	6	46.33	20170131	20190130
2475392	24F10	1	7	46.33	20170131	20190130
2475393	24F10	2	1	46.32	20170131	20190130
2475394	24F10	2	2	46.32	20170131	20190130
2475395	24F10	2	3	46.32	20170131	20190130
2475396	24F10	2	4	46.32	20170131	20190130
2475397	24F10	2	5	46.32	20170131	20190130
2475398	24F10	3	1	46.31	20170131	20190130
2475399	24F10	3	2	46.31	20170131	20190130
2475400	24F10	3	3	46.31	20170131	20190130
2475401	24F10	4	1	46.29	20170131	20190130
2475402	24F10	4	2	46.29	20170131	20190130
2475403	24F11	1	58	46.33	20170131	20190130
2475404	24F11	1	59	46.33	20170131	20190130
2475405	24F11	1	60	46.33	20170131	20190130
2475406	24F11	2	57	46.32	20170131	20190130
2475407	24F11	2	58	46.32	20170131	20190130
2475408	24F11	2	59	46.32	20170131	20190130
2475409	24F11	2	60	46.32	20170131	20190130
2475410	24F11	3	57	46.31	20170131	20190130
2475411	24F11	3	58	46.31	20170131	20190130
2475412	24F11	3	59	46.31	20170131	20190130
2475413	24F11	3	60	46.31	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475414	24F11	4	57	46.29	20170131	20190130
2475415	24F11	4	58	46.29	20170131	20190130
2475416	24F11	4	59	46.29	20170131	20190130
2475417	24F11	4	60	46.29	20170131	20190130
2475418	24F11	5	57	46.28	20170131	20190130
2475419	24F11	5	58	46.28	20170131	20190130
2475420	24F11	5	59	46.28	20170131	20190130
2475421	24F11	5	60	46.28	20170131	20190130
2475422	24F11	6	57	46.27	20170131	20190130
2475423	24F11	6	58	46.27	20170131	20190130
2475424	24F11	6	59	46.27	20170131	20190130
2475592	24F11	1	1	46.33	20170131	20190130
2475593	24F11	1	2	46.33	20170131	20190130
2475594	24F11	1	3	46.33	20170131	20190130
2475595	24F11	1	4	46.33	20170131	20190130
2475596	24F11	1	5	46.33	20170131	20190130
2475597	24F11	1	6	46.33	20170131	20190130
2475598	24F11	1	7	46.33	20170131	20190130
2475599	24F11	2	1	46.32	20170131	20190130
2475600	24F11	2	2	46.32	20170131	20190130
2475601	24F11	2	3	46.32	20170131	20190130
2475602	24F11	2	4	46.32	20170131	20190130
2475603	24F11	2	5	46.32	20170131	20190130
2475604	24F11	2	6	46.32	20170131	20190130
2475605	24F11	2	7	46.32	20170131	20190130
2475606	24F11	3	1	46.31	20170131	20190130
2475607	24F11	3	2	46.31	20170131	20190130
2475608	24F11	3	3	46.31	20170131	20190130
2475609	24F11	3	4	46.31	20170131	20190130
2475610	24F11	3	5	46.31	20170131	20190130
2475611	24F11	3	6	46.31	20170131	20190130
2475612	24F11	3	7	46.31	20170131	20190130
2475613	24F11	4	1	46.3	20170131	20190130
2475614	24F11	4	2	46.3	20170131	20190130
2475615	24F11	4	3	46.3	20170131	20190130
2475616	24F11	4	4	46.3	20170131	20190130
2475617	24F11	4	5	46.3	20170131	20190130
2475618	24F11	4	6	46.3	20170131	20190130
2475619	24F11	4	7	46.3	20170131	20190130
2475620	24F11	5	1	46.29	20170131	20190130
2475621	24F11	5	2	46.29	20170131	20190130
2475622	24F11	5	3	46.29	20170131	20190130
2475623	24F11	5	4	46.29	20170131	20190130
2475624	24F11	5	5	46.29	20170131	20190130
2475625	24F11	5	6	46.29	20170131	20190130



APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475626	24F11	5	7	46.29	20170131	20190130
2475627	24F11	6	1	46.27	20170131	20190130
2475628	24F11	6	2	46.27	20170131	20190130
2475629	24F11	6	3	46.27	20170131	20190130
2475630	24F11	6	4	46.27	20170131	20190130
2475631	24F11	6	5	46.27	20170131	20190130
2475632	24F11	6	6	46.27	20170131	20190130
2475633	24F11	6	7	46.27	20170131	20190130
2475634	24F11	7	1	46.26	20170131	20190130
2475635	24F11	7	2	46.26	20170131	20190130
2475636	24F11	7	3	46.26	20170131	20190130
2475637	24F12	1	60	46.33	20170131	20190130
2475638	24F12	2	60	46.32	20170131	20190130
2475639	24F12	3	60	46.31	20170131	20190130
2475640	24F12	4	60	46.3	20170131	20190130
2475641	24F12	5	60	46.29	20170131	20190130
2475642	24F12	6	60	46.27	20170131	20190130
2475643	24F12	7	60	46.26	20170131	20190130
2475644	24F07	16	1	46.48	20170131	20190130
2475645	24F07	16	2	46.48	20170131	20190130
2475646	24F07	16	3	46.48	20170131	20190130
2475647	24F07	16	4	46.48	20170131	20190130
2475648	24F07	16	5	46.48	20170131	20190130
2475649	24F07	16	6	46.48	20170131	20190130
2475650	24F07	16	7	46.48	20170131	20190130
2475651	24F07	16	8	46.48	20170131	20190130
2475652	24F07	16	9	46.48	20170131	20190130
2475653	24F07	16	10	46.48	20170131	20190130
2475654	24F07	16	11	46.48	20170131	20190130
2475655	24F07	16	12	46.48	20170131	20190130
2475656	24F07	16	13	46.48	20170131	20190130
2475657	24F07	16	14	46.48	20170131	20190130
2475658	24F07	16	15	46.48	20170131	20190130
2475659	24F07	16	16	46.48	20170131	20190130
2475660	24F07	16	17	46.48	20170131	20190130
2475661	24F07	16	18	46.48	20170131	20190130
2475662	24F07	17	8	46.47	20170131	20190130
2475663	24F07	17	9	46.47	20170131	20190130
2475664	24F07	17	10	46.47	20170131	20190130
2475665	24F07	17	11	46.47	20170131	20190130
2475666	24F07	17	12	46.47	20170131	20190130
2475667	24F07	17	13	46.47	20170131	20190130
2475668	24F07	17	14	46.47	20170131	20190130
2475669	24F07	17	15	46.47	20170131	20190130
2475670	24F07	17	16	46.47	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475671	24F07	17	17	46.47	20170131	20190130
2475672	24F07	17	18	46.47	20170131	20190130
2475673	24F07	18	8	46.46	20170131	20190130
2475674	24F07	18	9	46.46	20170131	20190130
2475675	24F07	18	10	46.46	20170131	20190130
2475676	24F07	18	11	46.46	20170131	20190130
2475677	24F07	18	12	46.46	20170131	20190130
2475678	24F07	18	13	46.46	20170131	20190130
2475679	24F07	18	14	46.46	20170131	20190130
2475680	24F07	18	15	46.46	20170131	20190130
2475681	24F07	18	16	46.46	20170131	20190130
2475682	24F07	18	17	46.46	20170131	20190130
2475683	24F07	18	18	46.46	20170131	20190130
2475684	24F07	19	8	46.45	20170131	20190130
2475685	24F07	19	9	46.45	20170131	20190130
2475686	24F07	19	10	46.45	20170131	20190130
2475687	24F07	19	11	46.45	20170131	20190130
2475688	24F07	19	12	46.45	20170131	20190130
2475689	24F07	19	13	46.45	20170131	20190130
2475690	24F07	19	14	46.45	20170131	20190130
2475691	24F07	19	15	46.45	20170131	20190130
2475692	24F07	19	16	46.45	20170131	20190130
2475693	24F07	20	8	46.44	20170131	20190130
2475694	24F07	20	9	46.44	20170131	20190130
2475695	24F07	20	10	46.44	20170131	20190130
2475696	24F07	20	11	46.44	20170131	20190130
2475697	24F07	20	12	46.44	20170131	20190130
2475698	24F07	20	13	46.44	20170131	20190130
2475699	24F07	20	14	46.44	20170131	20190130
2475700	24F07	21	8	46.43	20170131	20190130
2475701	24F07	21	9	46.43	20170131	20190130
2475702	24F07	21	10	46.43	20170131	20190130
2475703	24F07	21	11	46.43	20170131	20190130
2475704	24F07	21	12	46.43	20170131	20190130
2475705	24F07	21	13	46.43	20170131	20190130
2475706	24F07	22	8	46.42	20170131	20190130
2475707	24F07	22	9	46.42	20170131	20190130
2475708	24F07	22	10	46.42	20170131	20190130
2475709	24F07	22	11	46.42	20170131	20190130
2475710	24F07	23	8	46.41	20170131	20190130
2475711	24F07	23	9	46.41	20170131	20190130
2475712	24F07	23	10	46.41	20170131	20190130
2475713	24F07	24	8	46.4	20170131	20190130
2475714	24F07	24	9	46.4	20170131	20190130
2475715	24F07	24	10	46.4	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475716	24F07	25	9	46.39	20170131	20190130
2475717	24F07	25	10	46.39	20170131	20190130
2475718	24F07	26	9	46.38	20170131	20190130
2475719	24F07	26	10	46.38	20170131	20190130
2475720	24F07	27	9	46.37	20170131	20190130
2475721	24F07	27	10	46.37	20170131	20190130
2475722	24F07	28	9	46.36	20170131	20190130
2475723	24F07	28	10	46.36	20170131	20190130
2475724	24F07	29	9	46.35	20170131	20190130
2475725	24F07	29	10	46.35	20170131	20190130
2475726	24F05	3	56	46.62	20170131	20190130
2475727	24F05	3	57	46.62	20170131	20190130
2475728	24F05	3	58	46.62	20170131	20190130
2475729	24F05	3	59	46.62	20170131	20190130
2475730	24F05	3	60	46.62	20170131	20190130
2475731	24F05	4	55	46.61	20170131	20190130
2475732	24F05	4	56	46.61	20170131	20190130
2475733	24F05	4	57	46.61	20170131	20190130
2475734	24F05	4	58	46.61	20170131	20190130
2475735	24F05	4	59	46.61	20170131	20190130
2475736	24F05	4	60	46.61	20170131	20190130
2475737	24F05	5	56	46.6	20170131	20190130
2475738	24F05	5	57	46.6	20170131	20190130
2475739	24F05	5	58	46.6	20170131	20190130
2475740	24F05	5	59	46.6	20170131	20190130
2475741	24F05	5	60	46.6	20170131	20190130
2475742	24F05	6	56	46.59	20170131	20190130
2475743	24F05	6	57	46.59	20170131	20190130
2475744	24F05	6	58	46.59	20170131	20190130
2475745	24F05	6	59	46.59	20170131	20190130
2475746	24F05	6	60	46.59	20170131	20190130
2475747	24F05	7	58	46.58	20170131	20190130
2475748	24F05	7	59	46.58	20170131	20190130
2475749	24F05	7	60	46.58	20170131	20190130
2475750	24F05	8	59	46.57	20170131	20190130
2475751	24F05	9	59	46.56	20170131	20190130
2475752	24F06	3	1	46.62	20170131	20190130
2475753	24F06	3	2	46.62	20170131	20190130
2475754	24F06	3	3	46.62	20170131	20190130
2475755	24F06	3	4	46.62	20170131	20190130
2475756	24F06	3	5	46.62	20170131	20190130
2475757	24F06	3	6	46.62	20170131	20190130
2475758	24F06	3	7	46.62	20170131	20190130
2475759	24F06	3	8	46.62	20170131	20190130
2475760	24F06	3	9	46.62	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475761	24F06	3	10	46.62	20170131	20190130
2475762	24F06	3	11	46.62	20170131	20190130
2475763	24F06	3	12	46.62	20170131	20190130
2475764	24F06	3	13	46.62	20170131	20190130
2475765	24F06	3	14	46.62	20170131	20190130
2475766	24F06	3	15	46.62	20170131	20190130
2475767	24F06	3	16	46.62	20170131	20190130
2475768	24F06	4	1	46.61	20170131	20190130
2475769	24F06	4	2	46.61	20170131	20190130
2475770	24F06	4	3	46.61	20170131	20190130
2475771	24F06	4	4	46.61	20170131	20190130
2475772	24F06	4	5	46.61	20170131	20190130
2475773	24F06	4	6	46.61	20170131	20190130
2475774	24F06	4	7	46.61	20170131	20190130
2475775	24F06	4	8	46.61	20170131	20190130
2475776	24F06	4	9	46.61	20170131	20190130
2475777	24F06	4	10	46.61	20170131	20190130
2475778	24F06	4	11	46.61	20170131	20190130
2475779	24F06	4	12	46.61	20170131	20190130
2475780	24F06	4	13	46.61	20170131	20190130
2475781	24F06	4	14	46.61	20170131	20190130
2475782	24F06	4	15	46.61	20170131	20190130
2475783	24F06	4	16	46.61	20170131	20190130
2475784	24F06	5	1	46.6	20170131	20190130
2475785	24F06	5	2	46.6	20170131	20190130
2475786	24F06	5	3	46.6	20170131	20190130
2475787	24F06	5	4	46.6	20170131	20190130
2475788	24F06	5	5	46.6	20170131	20190130
2475789	24F06	5	6	46.6	20170131	20190130
2475790	24F06	5	7	46.6	20170131	20190130
2475791	24F06	5	8	46.6	20170131	20190130
2475792	24F06	5	9	46.6	20170131	20190130
2475793	24F06	5	10	46.6	20170131	20190130
2475794	24F06	5	11	46.6	20170131	20190130
2475795	24F06	5	12	46.6	20170131	20190130
2475796	24F06	5	13	46.6	20170131	20190130
2475797	24F06	5	14	46.6	20170131	20190130
2475798	24F06	5	15	46.6	20170131	20190130
2475799	24F06	5	16	46.6	20170131	20190130
2475800	24F06	5	17	46.6	20170131	20190130
2475801	24F06	6	1	46.59	20170131	20190130
2475802	24F06	6	2	46.59	20170131	20190130
2475803	24F06	6	3	46.59	20170131	20190130
2475804	24F06	6	4	46.59	20170131	20190130
2475805	24F06	6	5	46.59	20170131	20190130

APPENDIX 1 - CLAIMS LIST, KAN PROJECT, SUMMER 2018

Claim #	SNRC	Row	Column	Surface Area (ha)	Registration Date	Expiry Date
2475806	24F06	6	6	46.59	20170131	20190130
2475807	24F06	6	7	46.59	20170131	20190130
2475808	24F06	6	8	46.59	20170131	20190130
2475809	24F06	6	9	46.59	20170131	20190130
2475810	24F06	6	10	46.59	20170131	20190130
2475811	24F06	6	11	46.59	20170131	20190130
2475812	24F06	6	12	46.59	20170131	20190130
2475813	24F06	6	13	46.59	20170131	20190130
2475814	24F06	6	14	46.59	20170131	20190130
2475815	24F06	6	15	46.59	20170131	20190130
2475816	24F06	6	16	46.59	20170131	20190130
2475817	24F06	6	17	46.59	20170131	20190130
2475818	24F06	7	1	46.58	20170131	20190130
2475819	24F06	7	2	46.58	20170131	20190130
2475820	24F06	7	3	46.58	20170131	20190130
2475821	24F06	7	4	46.58	20170131	20190130
2475822	24F06	7	5	46.58	20170131	20190130
2475823	24F06	7	6	46.58	20170131	20190130
2475824	24F06	7	7	46.58	20170131	20190130
2475825	24F06	7	8	46.58	20170131	20190130
2475826	24F06	7	9	46.58	20170131	20190130
2475827	24F06	7	10	46.58	20170131	20190130
2475828	24F06	7	11	46.58	20170131	20190130
2475829	24F06	7	12	46.58	20170131	20190130
2475830	24F06	7	13	46.58	20170131	20190130
2475831	24F06	7	14	46.58	20170131	20190130
2475832	24F06	7	15	46.58	20170131	20190130
2475833	24F06	7	16	46.58	20170131	20190130
2475834	24F06	7	17	46.58	20170131	20190130
2475835	24F06	8	15	46.57	20170131	20190130
2475836	24F06	8	16	46.57	20170131	20190130
2475837	24F06	8	17	46.57	20170131	20190130
2475838	24F06	9	15	46.56	20170131	20190130
2475839	24F06	9	16	46.56	20170131	20190130
88975	24F11	2	29	46.32	20050812	20190811
88976	24F11	3	29	46.31	20050812	20190811
93257	24F11	2	28	46.32	20050908	20190907
93258	24F11	3	28	46.31	20050908	20190907

**Appendix 2**  
Abbreviation List for Drill Logs  
2018





**LITHOLOGY ABBREVIATIONS**

<b>Texture</b>	
<b>CODE</b>	<b>DESCRIPTION</b>
Axial Plan	Axial Plane
BA	Banding
BC	Broken Core
BD	Bedding
BED	Bedding
BO	Boudinage
BOU	Boudinage
BR	Breccia
BRE	Brecciation
BRE-	Brec
BRT	Tectonic Breccia
BT	Tectonic Breccia
BX	Breccia
CNT	Lithology Contact
CON	Contact
CRN	Crenulation cleavage
F-Axis	F-Axis
FLD	Folded
FLT	Fault
FO	Foliation
FOL	Foliation
FR	Fractures
FRA	Fracture
FRC	Fracture
FTG	Fault Gouge
G	Gouge
JNT	Joint
LA	Lamination
LAM	Lamination
LE	Stretching lineation
LI	Bedding
LM	Mineral lineation
LN	Lineation
NA	Non-Applicable
PSF	Pervasive Silica Flooding
rms	Massive
SHR	Shear Zone
SLK	Slickenside
SP	Schistosity
ST	Stratification
STF	Stratification
STR	Stratification
SZ	Shear Zone
TBX	Tectonic Breccia
VN	Veins



## LITHOLOGY ABBREVIATIONS

### ROCK TYPES

CODE	Description
AB	Albite Altered Dyke
BH	Hydrothermal Breccia
BHT	Tourmaline Breccia
BM	Magmatic breccia
BP	Pyroclastic Breccia
BRT	Tectonic Breccia
BX	Breccia
CMS	Mariposite Schist
CONG	Conglomerate
DIA	Diabese
F1	Massive sulphide
F2	Semi-massive sulphide
FI	Undifferentiated Felsic Intrusive
FLT	Fault
FP	Feldspar Porphyry
I1	Felsic intrusive
I1 FP	I1 FP
I1 Frg	Felsic intrusive with fragments of porphyry
I1 QFP	I1 QFP
I1 QP	I1 QP
I13	Late felsic intrusive with sugary texture
I1A	Granite with alkali feldspar
I1B	Granite
I1C	Granodiorite
I1C FP	Granodiorite with feldspar phenocrysts
I1C FRG	Fragmental Granodiorite
I1C QFP	Granodiorite with quartz and feldspar phenocrysts
I1C QP	Granodiorite with quartz phenocrysts
I1D	Tonalitic intrusion
I1D FP	Tonalite with feldspar phenocrysts
I1D QFP	Tonalite with quartz and feldspar phenocrysts
I1D QP	Tonalite with small quartz eyes
I1F	Aplitic dyke
I1G	Pegmatitic felsic intrusive
I1L	Syeno-granite
I1M	Monzogranite
I1M Frg	
I1N	Quartz vein
I1P	Felsic intrusive
I1P TrY	Large felsic quartz eyes porphyry with trace quartz eyes
I1P YB	Felsic porphyry contains many large quartz eyes (crowded)
I1P YL	Large felsic quartz eyes porphyry
I2	Intermediate dyke undifferentiated
I2 BIZ	Felsic-Intermediate atypic dyke with chlorite spots
I2 FP	I2 FP

## LITHOLOGY ABBREVIATIONS

### ROCK TYPES

CODE	Description
I2 POR	Intermediate feldspar porphyry
I2 QFP	I2 QFP
I2 QP	I2 QP
I2A	Quartz syenite with alkali feldspar
I2B	Syenite with alkali feldspar
I2C	Quartz Syenite
I2D	Syenite
I2E	Quartz monzonite
I2E FFP	Quartz monzonite with feldspar phenocrysts
I2F	Monzonite
I2F FFP	Monzonite with feldspar phenocrysts
I2F QFP	Monzonite with feldspar and quartz phenocrysts
I2F QP	Monzonite with quartz phenocrysts
I2G	Quartz monzodiorite
I2G FFP	Quartz monzodiorite with feldspar phenocrysts
I2G QFP	Quartz monzodiorite with quartz and feldspar phenocrysts
I2G QP	Quartz monzodiorite with quartz phenocrysts
I2H	Monzodiorite
I2I	Quartz Diorite
I2I FFP	Quartz Diorite with feldspar phenocrysts
I2I QFP	Quartz diorite with quartz and feldspar phenocrysts
I2I QP	Quartz diorite with quartz phenocrysts
I2J	Diorite
I2J FFP	Diorite with feldspar phenocrysts
I2J QFP	Diorite with feldspar and quartz phenocrysts
I2P	
I2P Frg	TEMPORARY CODE
I2P YS	TEMPORARY CODE
I2P YS Frg	quartz eyes porphyry with fragments
I3	Undifferentiated mafic intrusive
I3A	Gabbro
I3B	Diabase
I3E	Quartz Gabbro
I3O	Lamprophyre
I3Q	Gabbronorite
I4	Ultramafic intrusive
I4B	Pyroxenite
I4C	Clinopyroxenite
I4E	Orthopyroxenite
I4I	Peridotite
I4M	Dunite
I4P	Kimberlite
IF	Iron Formation
LAMP	Lamprophyre
LAMPX	Lamprophyre With Xenoliths

## LITHOLOGY ABBREVIATIONS

### ROCK TYPES

CODE	Description
LC	Lost Core
M1	Gneiss
M11	Phyllite
M12	Quartzite
M13	Marble
M15	Metasomatic rock
M16	Amphibolite
M20	Metatexite
M21	Diatexite
M22	Migmatite
M25	Mylonite
M3	Orthogneiss
M30	Tourmalinite
M4	Paragneiss
M8	Schist
MH	Mother Hole
MI	Undifferentiated Mafic Intrusive
MSLAM	Interlaminated Mudstone/Sandstone
MUD	Mudstone
MV	Mafic Volcanics
NR	Core not recovered
OB	Overburden
OVB	Overburden
P	Peridotite
QFP	Quartz Feldspar Porphyry
QP	Quartz porphyry
ROCK TYPES	Rock
S	Undifferentiated Sediments
S1	Sandstone
S10	Chert
S10A	Oxyde Chert
S10B	Carbonated Chert
S10C	Silicated Chert
S10D	Sulphide Chert
S11	Exhalite
S2	Arenite
S3	Wacke
S4	Conglomerate
S4A	Monogenic conglomerate
S4B	Clast-supported monogenic conglomerate
S4C	Matrix-supported monogenic conglomerate
S4D	Polygenic conglomerate
S4E	Clast-supported polygenic conglomerate
S4F	Matrix-supported polygenic conglomerate
S5	Breccia

## LITHOLOGY ABBREVIATIONS

### ROCK TYPES

CODE	Description
S6	Mudrock
S6-S9	Mudrock-Iron formation
S6A	Siltstone
S6b	Black Shale
S6D	Mudstone
S6g	Grey Shale
S7	Limestone
S8	Dolomite
S9	Iron formation
S9B	Oxyde Iron Formation
S9C	Carbonated iron formation
S9D	Silicated iron formation
S9E	Sulphide iron formation
SCH	Schist
SHR	Shear zone
SHR VN	Shear vein
SS	Sandstone
SY	Syenite
SZ	Shear Zone
T1A	Fault Breccia
T1C	Fault Gouge
T4	Tectonic Breccia
TB1	Intermediate block tuff
TB3	Mafic block tuff
TH	Hyaloclastite
TL1	Felsic lapilli tuff
TL2	Intermediate lapilli tuff
TL3	Mafic lapilli tuff
TU1	Felsic tuff
TU2	Intermediate tuff
TU3	Mafic tuff
TX1	Felsic crystal tuff
TX2	Intermediate crystal tuff
TX3	Mafic crystal tuff
UK	Unknown
UV	Ultramafic Volcanics
V1	Felsic Volcanic
V1 FP	Felsic volcanic unit with feldspar phenocrysts
V1 Frg	Fragmental felsic volcanic
V1 QFP	Felsic volcanic unit with quartz and feldspar phenocrysts
V1 QP	Felsic volcanic unit with quartz phenocrysts
V1 Zeb	Zebra Rhyolite
V1B	Rhyolite
V1B FP	Rhyolite with feldspar phenocrysts
V1B FRG	Fragmental Rhyolite

## **LITHOLOGY ABBREVIATIONS**

### **ROCK TYPES**

---

<b>CODE</b>	<b>Description</b>
V1B QP	Rhyolite with quartz eyes phenocrysts
V1C	Rhyodacite
V1C FP	Rhyodacite with feldspar phenocrysts
V1C QFP	Rhyodacite with quartz and feldspar phenocrysts
V1C QP	Rhyodacite with quartz phenocrysts
V1D	Dacite
V2	Intermediate volcanic
V2 Frg	Intermediate fragmental volcanic
V2D	Trachyte
V2J	Andesite
V2J BLE	Bleached Andesite
V2J FP	Andesite with feldspar phenocrysts
V2J FRG	Fragmental Andesite
V2J QFP	Andesite with quartz and feldspar phenocrysts
V3	Mafic volcanic
V3 Frg	Basalt fragmental
V3A	Andesitic basalt
V3B	Basalt
V3B BLE	Bleached Basalt
V3B FP	Basalt with feldspar phenocrysts
V3B FRG	Fragmental Basalt
V4	Ultramafic flow
V4A	Komatiite
VN	Vein
VNCR	Crustiform Vein
VS	Volcano-sedimentary

### MINERALISATION ABBREVIATIONS

<b>Mineralisation Control</b>		<b>Mineralisation Type</b>	
<b>CODE</b>	<b>DESCRIPTION</b>	<b>CODE</b>	<b>DESCRIPTION</b>
AMF	Amygdule filling	Ag	Silver
ANZ	Anastomosed zones	Agt	Argentite
AXP	Associated within axial plane	As	Arsenopyrite
BD	Bedded	Ath	Anthophyllite
CPV	Carbonate-chlorite-pyrite vein	Au	Gold
CTC	Contact controlled	Ba	Barium
FRC	Fracture controlled	Bi	Bismuth
FRG	Pyritized Fragments	Bo	Bornite
FRM	Fragment margins	Co	Cobalt
GTE	Grid texture	Cp	Chalcopyrite
MET	Leucosome	Cu	Copper
MOT	Mottled	Cup	Cuprite
PER	Pervasive	Cv	Coveline
PLM	Pillow margins	El	Electrum
SCH	Schistosity controlled	Gn	Galena
SHR	Shear zone	Goe	Goethite
VN	Veinlets and veins	Gp	Graphite
WK	Stockwork	Hm	Hematite
		Hs	Specularite
		Ma	Marcasite
		Mc	Malachite
		Mn	Manganese
		Mo	Molybdenite
		Mt	Magnetite
		NO DATA	No data
		NO MIN	No Mineralization
		Other	Other
		Pd	Pentlandite
		Po	Pyrrhotite
		Py	Pyrite
		Sn	Tin
		Sp	Sphalerite
		Te	Tellure
		Vg	Visible Gold

## **MINERALISATION ABBREVIATIONS**

### **Mineralisation Habitus**

<b>CODE</b>	<b>DESCRIPTION</b>	<b>CODE</b>	<b>DESCRIPTION</b>
AL	Clusters	NO	Nodular
AN	Anastomosed	OL	Colloform
ANH	Anhedral	PAT	Patchy
BHT	Hydrothermal breccia with Tourmaline	PERV	Pervasive
CC	Nodular Concretion	PHEN	Phenocrysts
CEM	Cement	PSF	Pervasive Silica Flooding
CLT	Clasts	PYSTR	Pyrite Vein-veinlet
CLU	Clusters	PYTSTR	Pyrite-Tourmaline Vein-veinlet
CU	Cumulate	QC	Quartz-Carbonate Vein
DI	Disseminated	QTV	Quartz-Tourmaline Vein
DIS	Disseminated	QV	Quartz Vein
DISS	Disseminate	RB	Framboidal
DT	Dendritic	SJ	Stratabound
EUH	Euhedral	SM	Semi-massive Sulfides
FRA	Fractures	SS	Stringer
FRCAu	Fracture With Gold	SSM	Semi-massive Sulfides
FRCCp	Fracture With Chalcopyrite	STW	Stockwork
FRG	Pyritized Fragment	SUB	Subhedral
IG	Interstitial	SV	Smoked Quartz Vein
INT	Interstitielle	TA	Tabular
IRR	Irregular	TPV	Tourmaline Ptygmatic Vein
LA	Laminated	VN	Quartz Vein
LE	Lenticular	VN	Vein
MA	Massive	VNCR	Crustiform Vein
MAS	Massive Sulfides	VNSEL	Vein salvage
MTX	Matrix	WK	Stockwork

**ALTERATION ABBREVIATIONS**

<b>ALTERATION TYPE</b>		<b>ALTERTION STYLE</b>	
<b>CODE</b>	<b>DESCRIPTION</b>	<b>CODE</b>	<b>DESCRIPTION</b>
AB	Albite	AMF	Amygdule filling
Actl	Actinolite	AN	Anastomosed
Alb	Albitization	ANZ	Anastomosed
AMP	Amphibole	AXP	Axial plane controlled
Ank	Ankerite	BAN	Banded
Ap	Apatite	CEM	Cement
Bio	Biotite	CLT	Fragments/Clasts
BL	Bleaching	CTC	Contact controlled
CAL	Calcite	CTL	Bedding controlled
Car	Car	DI	Disseminated
Carb	Carbonate	DIS	Disseminated
CC	Calcite	DISS	Disseminated
CCS	Calc-silicate	FF	Fracture Filling
Chl	Chlorite	FRA	Fractures
Ep	Epidote	FRC	Fracture Controlled
FESUP	FeOx Supergene	FRM	Fragment margins
FL	Fluorine	FRP	Fracture controlled
Fu	Fuchsite	IG	Interstitial
FW	Fuchsite	INT	Interstitial
Gar	Garnet	IRR	Irregular
Grph	Graphitic	MET	Migmatic controlled
Hb	Hornblende	MOT	Mottled
He	Hematite	MTX	Matrix
K	K-Feldspar	NO_ENTRY	No Entry
Mag	Magnetite	P	Pervasive
MO	Mottling	PAT	Patchy
MT	Magnetite	PCH	Patchy
Mus	Muscovite	PD	Pods
NO ALT	No Alteration	PEN	Penetrative
Oxid	Oxidized	PER	Pervasive
PRO	Propylitization	PHEN	Phenocrysts
PY	Pyrite	PLM	Pillow margins
Qtz	Quartz	RU	Banded
SA	Saussurization	SCH	Schistosity controlled
SE	Sericite	SHR	Shear controlled
Ser	Sericite	SP	Spotted
Serp	Serpentinized	STKW	Stockwork
SI	Silicification	STW	Stockwork
Sid	Siderite	VAR	Mottled
Sil	Silica	VN	Vein controlled
SP	Specularite	VNSEL	Vein Selvage
SR	Serpentine	WK	Stockwork
SRP	Serpentinization		
ST	Staining		
SUL	Sulphidization		
TC	Talc		
Tit	Tit		
Tlc	Talc		
TM	Tourmaline		
UR	Uralitization		
W	Weathering		



**STRUCTURE ABBREVIATIONS**

<b>STRUCTURE TYPE</b>		<b>ORIENTED STRUCTURE TYPE</b>	
<b>CODE</b>	<b>DESCRIPTION</b>	<b>CODE</b>	<b>DESCRIPTION</b>
Axial Plan	Axial Plane	AxialPlane	Axial Plane
BA	Banding	BC	Broken Core
BC	Broken Core	BD	Bedding
BD	Bedding	BED	Bedding
BED	Bedding	BH	Hydrothermal Breccia
BO	Boudinage	BOU	Boudinage
BOU	Boudinage	BRE	Brecciation
BR	Breccia	BRT	Tectonic Breccia
BRE	Brecciation	BT	Tectonic Breccia
BRT	Tectonic Breccia	BX	Breccia
BT	Tectonic Breccia	CLV	Chlorite Vein
BX	Breccia	CNT	Lithology Contact
CNT	Lithology Contact	CT	Lithology Contact
CON	Contact	CTC	Chlorite/Calcite
CRN	Crenulation cleavage	EPTH	Epithermal Vein
F-Axis	F-Axis	F-Axis	F-Axis
FLD	Folded	FA	Fault
FLT	Fault	FLD	Folded
FO	Foliation	FLT	Fault
FOL	Foliation	FO	Foliation
FR	Fractures	FOL	Foliation
FRA	Fracture	FRC	Fracture
FRC	Fracture	FTB	Fault Breccia
FTG	Fault Gouge	FTG	Fault Gouge
G	Gouge	JNT	Joint
JNT	Joint	LN	Lineation
LA	Lamination	M-Axis	Magmatic Mineral Axis
LAM	Lamination	PSF	Pervasive Silica Flooding
LE	Stretching lineation	PYSTR	Pyrite Vein
LI	Bedding	PYTSTR	Pyrite-Tourmaline Vein
LM	Mineral lineation	QC	Quartz-Carbonate Vein
LN	Lineation	QTV	Quartz-Tourmaline Vein
NA	Non-Applicable	QV	Quartz Vein
PSF	Pervasive Silica Flooding	rms	Massive rock
rms	Massive	RU	Banded
SHR	Shear Zone	S0	Bedding
SLK	Slickenside	S1	Primary Schistosity
SP	Schistosity	S2	Secondary Schistosity
ST	Stratification	S3	Tertiary Schistosity
STF	Stratification	SHR	Shear Zone
STR	Stratification	SHR VN	Shear Vein
SZ	Shear Zone	SP	Principal Schistosity
TBX	Tectonic Breccia	SS	Stringer
VN	Veins	STF	Stratification
		STR	Stratification
		SV	Smoked Quartz Vein
		TPV	Tourmaline Ptygmatic Vein
		VC	Carbonate Vein
		VN	Vein
		VNCR	Crustiform Vein
		VNT	Tourmaline Vein

## VEIN ABBREVIATION

### Vein Gangue

CODE	DESCRIPTION
AB	Albite
AK	Ankerite
BO	Biotite
CB	Carbonate
CC	Calcite
CL	Chlorite
DM	Dolomite
EP	Epidote
FC	Fuschite
FK	K-Feldspar
FL	Fluorine
FP	Feldspath
FU	Fuchsite
GP	Graphite
GR	Garnet
HM	Hematite
IM	Ilmenite
JP	Jasper
MG	Magnetite
NA	No Information
PG	Plagioclase
PY	Pyrite
QB	Quartz (Blue)
QZ	Quartz
SF	Sulphides
Silica	Silica
SQ	Smokey Quartz
SR	Sericite
ST	Serpentine
TC	Talc
TM	Tourmaline

### Vein Texture

CODE	DESCRIPTION
BAN	Banded
BOU	Boudinage
BRE	Breccia
BX	Brecciated
CKSL	Crack/Seal
CMB	Comb
COC	Cockade
COL	Colloform
CRT	Crustiform
CRU	Crusiform
DR	Drusy
DSM	Dismembered
FI	Fibrous
FLD	Folded
LA	Laminated
LAM	Laminated
MA	Massive
MAS	Massive
MASS	Massive
MOS	Mosaic
OL	Colloform
PTY	Ptygmatic
RU	Banded
SCD	Saccharoidal
STW	Stockwork
STY	Stylolites
SY	Stylolitic
VUG	Vuggy
WK	Stockwork

**Appendix 3**  
Drill Hole Logs  
2018



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*Simon Tremblay Hébert, Geo. (O.G.Q. #1777)*



## Detailed Log Report

### Hole Number OSK-KAN-18-005

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-60.00 <b>Collar Az:</b> 210.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 368 393.00	<b>Length:</b>	199.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	June 18, 2018	<b>East:</b>	486 863.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	June 20, 2018	<b>Elev:</b>	112.70	<b>Casing Length:</b>	19.00 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	Y <b>Making Water:</b> N
<b>Logger 1:</b>	Simon Hébert			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	150			<b>Claims Title:</b>	2099220 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	19.00	<b>OVB, Overburden</b>					
<b>Comments:</b>							
19.00	46.25	<b>S6, Mudrock</b>	458242	19.00	21.00	2.00	S6; 5% Py EUH BD 1% Py AL VN 2% Po SS FRC; 1% I1N CB 0.8 cm
			458243	21.00	23.00	2.00	S6; 5% Py EUH BD 1% Py AL VN 2% Po SS FRC; 1% I1N CB 0.8 cm
<b>Comments:</b>							
			458244	23.00	25.00	2.00	S6; 5% Py EUH BD 1% Py AL VN 2% Po SS FRC; 1% I1N CB 0.8 cm
			458245	25.00	27.00	2.00	S6; 5% Py EUH BD 1% Py AL VN 2% Po SS FRC; 1% I1N CB 0.8 cm
			458246	27.00	29.00	2.00	S6; 5% Py EUH BD 1% Py AL VN 2% Po SS FRC; 1% I1N CB 0.8 cm
			458247	29.00	31.00	2.00	S6; 5% Py EUH BD 1% Py AL VN 2% Po SS FRC; 1% I1N CB 0.8 cm
			458248	31.00	33.00	2.00	S6; 5% Py EUH BD 1% Py AL VN 2% Po SS FRC; 1% I1N CB 0.8 cm
			458250	33.00	35.00	2.00	S6; 5% Py EUH BD 1% Py AL VN 2% Po SS FRC; 1% I1N CB 0.8 cm
			458251	35.00	37.00	2.00	S6; 5% Py EUH BD 1% Py AL VN 2% Po SS FRC; 1% I1N CB 0.8 cm
			458252	37.00	39.00	2.00	S6; 5% Py EUH BD 1% Py AL VN 2% Po SS FRC; 1% I1N CB 0.8 cm
			458253	39.00	41.50	2.50	S6; 5% Py EUH BD 1% Py AL VN 2% Po SS FRC; 1% I1N CB 0.8 cm
			458254	41.50	43.45	1.95	S6; 5% Py EUH BD 1% Py AL VN 2% Po SS FRC; 1% I1N CB 0.8 cm
			458255	43.45	44.45	1.00	S6; 18% Po SJ BD 5% Py SUB BD 1% Py IG FRM; 1% I1N CB 0.8 cm
			458257	44.45	45.45	1.00	S6; 1% I1N CB 0.8 cm; BT 4
			458258	45.45	46.25	0.80	S6; 15% Po SSM BD 5% Po SJ BD 4% Py ANH BD; 1% I1N CB 0.8 cm

From	To	Lithology	Sample	From	To	Length	Comments
46.25	52.00	S9, Iron formation	458260	46.25	47.00	0.75	S9C; 0.5% Po AL VN; 6% I1N AK CL 4 cm
			458261	47.00	48.00	1.00	S9C; 0.5% Po AL VN; 6% I1N AK CL 4 cm
			458262	48.00	49.00	1.00	S9C; 0.5% Po AL VN; 6% I1N AK CL 4 cm
			458263	49.00	50.00	1.00	S9C; 0.5% Po AL VN; 6% I1N AK CL 4 cm
			458264	50.00	51.00	1.00	S9C; 0.5% Po AL VN; 6% I1N AK CL 4 cm
			458265	51.00	52.00	1.00	; 5% Po DI PER
52.00	74.40	S6, Mudrock	458267	52.00	54.00	2.00	S6; 4% Po SJ BD 3% Py SUB BD 1% Py AL AXP; 1% I1N QZ 0.8 cm
			458268	54.00	56.00	2.00	S6; 4% Po SJ BD 3% Py SUB BD 1% Py AL AXP; 1% I1N QZ 0.8 cm
			458270	56.00	58.00	2.00	S6; 4% Po SJ BD 3% Py SUB BD 1% Py AL AXP; 1% I1N QZ 0.8 cm
			458271	58.00	60.00	2.00	S6; 4% Po SJ BD 3% Py SUB BD 1% Py AL AXP; 1% I1N QZ 0.8 cm
			458272	60.00	62.00	2.00	S6; 4% Po SJ BD 3% Py SUB BD 1% Py AL AXP; 1% I1N QZ 0.8 cm
			458273	62.00	64.00	2.00	S6; 4% Po SJ BD 3% Py SUB BD 1% Py AL AXP; 1% I1N QZ 0.8 cm
			458274	64.00	66.00	2.00	S6; 4% Po SJ BD 3% Py SUB BD 1% Py AL AXP; 1% I1N QZ 0.8 cm
			458275	66.00	68.00	2.00	S6; 4% Po SJ BD 3% Py SUB BD 1% Py AL AXP; 1% I1N QZ 0.8 cm
			458277	68.00	70.00	2.00	S6; 4% Po SJ BD 3% Py SUB BD 1% Py AL AXP; 1% I1N QZ 0.8 cm
			458278	70.00	72.00	2.00	S6; 4% Po SJ BD 3% Py SUB BD 1% Py AL AXP; 1% I1N QZ 0.8 cm
			458280	72.00	73.35	1.35	S6; 4% Po SJ BD 3% Py SUB BD 1% Py AL AXP; 1% I1N QZ 0.8 cm
			458281	73.35	74.40	1.05	S6; 4% Po SJ BD 3% Py SUB BD 1% Py AL AXP; 1% I1N QZ 0.8 cm
			74.40	93.85	S9, Iron formation	458282	74.40
458283	75.00	76.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458284	76.00	77.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458285	77.00	78.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458286	78.00	79.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458287	79.00	80.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458288	80.00	81.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458290	81.00	82.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458291	82.00	83.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458292	83.00	84.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458293	84.00	85.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458294	85.00	86.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458295	86.00	87.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458297	87.00	88.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458298	88.00	89.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458300	89.00	90.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458301	90.00	91.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458302	91.00	92.00				1.00	S9C; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm; BT 1
458303	92.00	93.00	1.00	; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm			
458304	93.00	93.85	0.85	S9; Ank-2; 0.1% Po AL VN; 6% I1N AK 3 cm			

From	To	Lithology	Sample	From	To	Length	Comments
93.85	112.20	S6g, Grey Shale	458305	93.85	96.00	2.15	S6g; 1% Po SS BD; 1% I1N AK 0.5 cm
			458306	96.00	98.00	2.00	S6g; 1% Po SS BD; 1% I1N AK 0.5 cm
			458307	98.00	100.00	2.00	S6g; 1% Po SS BD; 1% I1N AK 0.5 cm
			458308	100.00	102.00	2.00	S6g; 1% Po SS BD; 1% I1N AK 0.5 cm
			458310	102.00	104.00	2.00	S6g; 1% Po SS BD; 1% I1N AK 0.5 cm
			458311	104.00	106.00	2.00	S6g; 1% Po SS BD; 1% I1N AK 0.5 cm
			458312	106.00	108.00	2.00	S6g; 1% Po SS BD; 1% I1N AK 0.5 cm
			458313	108.00	110.00	2.00	S6g; 1% Po SS BD; 1% I1N AK 0.5 cm
112.20	113.60	S9, Iron formation	458314	110.00	112.20	2.20	S6g; 1% Po SS BD
			458315	112.20	113.60	1.40	S9C; Ank-1
			458317	113.60	115.00	1.40	S6g; 0.1% Po SS BD; 1% I1N AK 0.04 cm
			458318	115.00	116.10	1.10	S6g; 0.1% Po SS BD; 1% I1N AK 0.04 cm
			458320	116.10	117.00	0.90	S6g; 0.1% Po SS BD; 1% I1N AK 0.04 cm
			458321	117.00	119.00	2.00	S6g; 0.1% Po SS BD; 1% I1N AK 0.04 cm
			458322	119.00	121.00	2.00	S6g; 0.1% Po SS BD; 1% I1N AK 0.04 cm
			458323	121.00	123.00	2.00	S6g; 0.1% Po SS BD; 1% I1N AK 0.04 cm; FLD 3
126.70	138.80	S9, Iron formation	458324	123.00	125.00	2.00	S6g; 0.1% Po SS BD; 1% I1N AK 0.04 cm
			458325	125.00	126.70	1.70	S6g; 0.1% Po SS BD; 1% I1N AK 0.04 cm
			458326	126.70	128.00	1.30	S9C; Ank-3; 0.1% Po TA CTC; 15% I1N AK 3 cm
			458327	128.00	129.00	1.00	S9C; Ank-3; 0.1% Po TA CTC; 15% I1N AK 3 cm; BT 1
			458328	129.00	130.00	1.00	S9C; Ank-3; 0.1% Po TA CTC; 15% I1N AK 3 cm
			458330	130.00	131.00	1.00	S9C; Ank-3; 0.1% Po TA CTC; 15% I1N AK 3 cm
			458331	131.00	132.00	1.00	S9C; Ank-3; 0.1% Po TA CTC; 15% I1N AK 3 cm
			458332	132.00	133.00	1.00	S9C; Ank-3; 0.1% Po TA CTC; 15% I1N AK 3 cm
			458333	133.00	134.00	1.00	S9C; Ank-3; 0.1% Po TA CTC; 15% I1N AK 3 cm
			458334	134.00	135.00	1.00	S9C; Ank-3; 0.1% Po TA CTC; 15% I1N AK 3 cm
			458335	135.00	136.00	1.00	S9C; Ank-3; 0.1% Po TA CTC; 15% I1N AK 3 cm
138.80	144.80	S6g, Grey Shale	458337	136.00	137.00	1.00	S9C; Ank-3; 0.1% Po TA CTC; 15% I1N AK 3 cm
			458338	137.00	138.00	1.00	S9C; Ank-3; 0.1% Po TA CTC; 15% I1N AK 3 cm
			458340	138.00	138.80	0.80	S9C; Ank-3; 0.1% Po TA CTC; 15% I1N AK 3 cm
			458341	138.80	141.00	2.20	S6g; 1.5% Po SS BD; 2% I1N CC 3 cm
			458342	141.00	143.00	2.00	S6g; 1.5% Po SS BD; 2% I1N CC 3 cm
			458343	143.00	144.80	1.80	S6g; 1.5% Po SS BD; 2% I1N CC 3 cm
			458344	144.80	146.00	1.20	I3A; Ank-5 CC-4; 10% I1N CC 1 cm
144.80	150.15	I3A, Gabbro	458345	146.00	148.00	2.00	I3A; Ank-5 CC-4; 10% I1N CC 1 cm
			458346	148.00	150.15	2.15	I3A; Ank-5 CC-4; 10% I1N CC 1 cm

From	To	Lithology	Sample	From	To	Length	Comments
150.15	154.50	S6g, Grey Shale	458347	150.15	152.00	1.85	S6g; 1% I1N QZ 0.5 cm
			458348	152.00	153.50	1.50	S6g; 1% I1N QZ 0.5 cm
			458350	153.50	154.50	1.00	S6g; 1% I1N QZ 0.5 cm
<b>Comments:</b>							
154.50	155.55	I3A, Gabbro	458351	154.50	155.55	1.05	I3A; Ank-4 CC-1; 10% I1N CC 2 cm
<b>Comments:</b>							
155.55	171.90	S6g, Grey Shale	458352	155.55	157.50	1.95	S6g; Ank-2 CC-2
			458353	157.50	159.25	1.75	S6g; Ank-2 CC-2
			458354	159.25	161.00	1.75	S6g; Ank-2 CC-2
			458355	161.00	163.00	2.00	S6g; Ank-2 CC-2
			458357	163.00	165.00	2.00	S6g; Ank-2 CC-2
			458358	165.00	167.00	2.00	S6g; Ank-2 CC-2
			458360	167.00	168.50	1.50	S6g; Ank-2 CC-2
			458361	168.50	170.00	1.50	S6g; Ank-2 CC-2
458362	170.00	171.90	1.90	S6g; Ank-2 CC-2			
171.90	179.90	S6, Mudrock	458363	171.90	173.30	1.40	S10B; Ank-4; 10% Po IG FRM; BT 5
			458364	173.30	175.00	1.70	S6; Ank-4; 7% Po SS BD 3% Py SS BD
			458365	175.00	177.00	2.00	S6; Ank-4; 7% Po SS BD 3% Py SS BD
			458366	177.00	178.50	1.50	S6; Ank-4; 7% Po SS BD 3% Py SS BD
			458367	178.50	179.90	1.40	S6; 7% Po SS BD 3% Py SS BD
179.90	187.00	S9, Iron formation	458368	179.90	181.00	1.10	S9C; 6% I1N AK 1.5 cm
			458370	181.00	182.00	1.00	S9C; 6% I1N AK 1.5 cm
			458371	182.00	183.00	1.00	S9C; 6% I1N AK 1.5 cm
			458372	183.00	184.00	1.00	S9C; 6% I1N AK 1.5 cm
			458373	184.00	185.00	1.00	S9C; 6% I1N AK 1.5 cm
			458374	185.00	186.00	1.00	S9C; 6% I1N AK 1.5 cm
			458375	186.00	187.00	1.00	S9C; 6% I1N AK 1.5 cm
187.00	198.35	S6g, Grey Shale	458377	187.00	189.00	2.00	S6g
			458378	189.00	191.00	2.00	S6g
			458379	191.00	193.00	2.00	S6g
			458380	193.00	195.00	2.00	S6g
			458381	195.00	197.00	2.00	S6g
			458382	197.00	198.35	1.35	S6g
198.35	199.00	I3A, Gabbro	458383	198.35	199.00	0.65	I3A Chl-Ank; Ank-5; 3% I1N CC 1 cm
<b>Comments:</b>							

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
1.00	8.20	-58.70	FM	Test NON-OK	
4.00	9.30	-59.40	FM	Test NON-OK	
7.00	329.10	-59.20	FM	Test NON-OK	
10.00	19.00	-58.80	FM	Test NON-OK	
13.00	36.80	-59.40	FM	Test NON-OK	
16.00	306.70	-59.40	FM	Test NON-OK	
19.00	217.20	-59.40	FM	Test NON-OK	
22.00	204.60	-59.40	FM	Test NON-OK	
25.00	204.30	-59.10	FM	Test NON-OK	
28.00	206.40	-59.20	FM	Test OK-Accept	
31.00	205.20	-59.10	FM	Test OK-Accept	
34.00	205.30	-59.20	FM	Test OK-Accept	
37.00	205.60	-59.10	FM	Test OK-Accept	
40.00	206.60	-59.10	FM	Test OK-Accept	
43.00	206.00	-59.20	FM	Test OK-Accept	
46.00	206.30	-59.10	FM	Test OK-Accept	
49.00	206.60	-59.00	FM	Test OK-Accept	
52.00	205.90	-59.10	FM	Test OK-Accept	
55.00	207.00	-58.90	FM	Test OK-Accept	
58.00	206.30	-58.90	FM	Test OK-Accept	
61.00	207.10	-58.70	FM	Test OK-Accept	
64.00	205.50	-58.80	FM	Test OK-Accept	
67.00	205.70	-58.60	FM	Test OK-Accept	
70.00	203.20	-58.50	FM	Test NON-OK	
73.00	204.00	-58.60	FM	Test NON-OK	
76.00	206.10	-58.60	FM	Test OK-Accept	
79.00	206.50	-58.60	FM	Test OK-Accept	
82.00	205.80	-58.40	FM	Test OK-Accept	
85.00	206.30	-58.40	FM	Test OK-Accept	
88.00	206.60	-58.40	FM	Test OK-Accept	
91.00	206.10	-58.30	FM	Test OK-Accept	
94.00	206.30	-58.30	FM	Test OK-Accept	
97.00	206.70	-58.30	FM	Test OK-Accept	
100.00	206.80	-58.20	FM	Test OK-Accept	
103.00	206.30	-58.20	FM	Test OK-Accept	
106.00	206.30	-58.10	FM	Test OK-Accept	
109.00	207.50	-58.00	FM	Test OK-Accept	



Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
112.00	206.70	-58.00	FM	Test OK-Accept	
115.00	207.80	-57.90	FM	Test OK-Accept	
118.00	207.30	-57.80	FM	Test OK-Accept	
121.00	207.60	-57.70	FM	Test OK-Accept	
124.00	207.70	-57.70	FM	Test OK-Accept	
127.00	207.50	-57.80	FM	Test OK-Accept	
130.00	208.10	-57.60	FM	Test OK-Accept	
133.00	207.20	-57.60	FM	Test OK-Accept	
136.00	208.20	-57.60	FM	Test OK-Accept	
139.00	207.20	-57.70	FM	Test OK-Accept	
142.00	208.20	-57.70	FM	Test OK-Accept	
145.00	208.60	-57.70	FM	Test OK-Accept	
148.00	208.50	-57.70	FM	Test OK-Accept	
151.00	208.60	-57.70	FM	Test OK-Accept	
154.00	208.50	-57.70	FM	Test OK-Accept	
157.00	208.40	-57.80	FM	Test OK-Accept	
160.00	208.80	-57.60	FM	Test OK-Accept	
163.00	208.70	-57.90	FM	Test OK-Accept	
166.00	208.80	-57.80	FM	Test OK-Accept	
169.00	208.90	-57.80	FM	Test OK-Accept	
172.00	208.70	-57.70	FM	Test OK-Accept	
175.00	208.80	-57.60	FM	Test OK-Accept	
178.00	209.00	-57.70	FM	Test OK-Accept	
181.00	210.40	-57.70	FM	Test OK-Accept	
184.00	209.30	-57.70	FM	Test OK-Accept	
187.00	209.80	-57.70	FM	Test OK-Accept	
190.00	210.20	-57.60	FM	Test OK-Accept	
193.00	209.90	-57.70	FM	Test OK-Accept	
196.00	205.80	-59.40	FM	Test NON-OK	
199.00	209.80	-57.70	FM	Test OK-Accept	

Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
19.00	43.45	S6	APH	LA			S6			BK		1	Aph	1			BRE Laminated black shale with millimeter scale quartz vein
43.45	46.25	S6	BX	BT			S6	20.00	Silica	BK	GM	2	Aph	0			SHP Heterogeneous unit with breachiated texture with centimeter scale.
46.25	51.10	S9	HK	RU			S9C	7.00	Silica	GM		3	FG				Heterogeneous carbonate iron formation.
51.10	52.00	S9	MA	RU			S10D	95.00	Silica	GL		3	FG	1			SHP Heterogeneous silica to sulfidized chert.
52.00	74.40	S6	APH	BD			S6			BK		1	Aph	1			SHP BBlack shale generally straight with very local light foliation created by late deformation D2
74.40	92.90	S9	HK	RU			S9C	10.00	Silica	GM	VL	3	FG	0			SHP Carbonate iron formation witch quartz veins and chert bed
92.90	93.85	S9	HK				S9			GM			FG				
93.85	112.20	S6g	BD	HJ			S6g			GM		1	Aph	0	54.00		SHP Homogeneous grey mudstone with 2% ofcentimeter scale leucocratic bands.
112.20	113.60	S9	RU	HJ			S9C	3.00	Silica	GL	VL	3	FG	0			Carbonate iron formation with siderite facies. Few millimeter scale of ankerite veinlets.
113.60	126.70	S6g	APH	BD	HJ		S6g			GM	VM	1	Aph	0			Homogeneous grey mudstone with millimeter scale quartz veinlets
126.70	138.80	S9	RU	BX	HK	IU	S9C	25.00	Carbonate	GL	VL	3	FG	0			Carbonate iron formation with siderite facies (silicate??). The unit is heterogeneous and banded with 25% of low angle carbonate chert bed
138.80	144.80	S6g	APH	BD	HJ		S6g			GM	VM	1	Aph	0			DIF Homogeneous grey mudstone.
144.80	150.15	I3A	HG	HJ	PI		I3A			VL		1	FG	0			SHP Homogeneous chlorite-ankerite shistous unit. The ankerite phenocryst overprint the main shistosity
150.15	154.50	S6g	APH	BD			S6g			GM		1	Aph		70.00		SHP Heterogenous grey mudstone with centimeter scale quartz veins oriented in the main foliation and deformed in D2.
154.50	155.55	I3A	HJ	RU			I3A			VL		1	Aph	0			SHP Homogeneous chlorite-calcite shistous gabbro
155.55	171.90	S6g	HG	HK	RU		S6g			GM	VM	1	FG	0			Heterogeneous intercalated unit between grey mudstone and shistous gabbro (chlorite-ankerite).
171.90	173.30	S6	BT	HG			S10B	50.00	Carbonate	WH	VL	3	MG	0			Breachiated chert with ankerite-chlorite and quartz. Can be related to a shear zone.
173.30	179.90	S6	APH	LA	GP		S6			BK		1	Aph		70.00		SHP

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
179.90	187.00	S9	HK	RU			S9C	10.00	Oxyde	GL	VL	3	FG				Carbonated iron formation with cherbes locally brechiated and 5 % of quartz-ankerite veins.
187.00	198.35	S6g	APH	LA			S6g			GD		1	Aph				Homegeneous grey mudstone
198.35	199.00	I3A	HJ	PI	FO		I3A Chl-Ank			VM		2	MG				

**Mineralization Data**

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
19.00	43.45		Py	5.00	EUH	BD		Py	1.00	AL	VN		Po	2.00	SS	FRC	
43.45	45.20		Po	18.00	SJ	BD		Py	5.00	SUB	BD		Py	1.00	IG	FRM	Around the chert fragment
45.20	46.25		Po	15.00	SSM	BD		Po	5.00	SJ	BD		Py	4.00	ANH	BD	
46.25	51.25		Po	0.50	AL	VN	Irregular cluster associated with quartz carbonated veins.										
51.25	52.00		Po	5.00	DI	PER											
52.00	74.40		Po	4.00	SJ	BD		Py	3.00	SUB	BD		Py	1.00	AL	AXP	
74.40	93.85		Po	0.10	AL	VN											
93.85	112.20		Po	1.00	SS	BD											
112.20	113.60																
113.60	126.70		Po	0.10	SS	BD											
126.70	138.80		Po	0.10	TA	CTC											
138.80	144.80		Po	1.50	SS	BD											
144.80	150.15																
150.15	154.50																
154.50	155.50																
171.90	173.30		Po	10.00	IG	FRM											
173.30	179.90		Po	7.00	SS	BD		Py	3.00	SS	BD						

Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
74.40	93.85	Ank	2	VN							
93.85	112.20										
112.20	113.60	Ank	1	VN							
113.60	126.70										
126.70	138.80	Ank	3	RU							Associated with chert beds
138.80	144.80										
144.80	150.15	Ank	5	DI	CC	4	VN				Phenocritic overprint of ankerite
150.15	154.50										
154.50	155.55	Ank	4	DI	CC	1	VN				
155.55	171.90	Ank	2	CTL	CC	2	VN				Mainly associated with gabbro.
171.90	179.50	Ank	4	DI							
179.50	198.35										
198.35	199.00	Ank	5	DI							

Vein Data																					
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments	
19.00	46.25	1.00	0.80	I1N	UNK	Veinlet <5cm	CB														
46.25	51.25	6.00	4.00	I1N	EXT VN	Veinlet <5cm	AK	10.00	CL	0.50						Po	0.50				
52.00	74.40	1.00	0.80	I1N	UNK	Veinlet <5cm	QZ														
74.40	93.85	6.00	3.00	I1N	EXT VN	Veinlet <5cm	AK	20.00								Po	0.10				
93.85	112.00	1.00	0.50	I1N	UNK	Veinlet <5cm	AK	25.00													
113.60	126.70	1.00	0.04	I1N	UNK	Veinlet <5cm	AK	5.00													
126.70	138.80	15.00	3.00	I1N	EXT VN	Vein >5cm	AK	5.00													
138.80	144.80	2.00	3.00	I1N	UNK	Veinlet <5cm	CC	4.00													Qz-chl veins oriented in S0 and deformed by D2
144.80	150.15	10.00	1.00	I1N	UNK	Vein >5cm	CC	80.00													
150.15	154.50	1.00	0.50	I1N	UNK	Veinlet <5cm	QZ														
154.50	155.55	10.00	2.00	I1N	UNK	Veinlet <5cm	CC	80.00													
179.90	187.00	6.00	1.50	I1N	UNK	Veinlet <5cm	AK	5.00													
198.35	199.00	3.00	1.00	I1N	UNK	Veinlet <5cm	CC	100.00													

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
44.30	45.60	BT	4	55.00	Rounded and elongate centimeter scale chert clast locally folded and locally surrounded by pyrrhotite.
74.50	92.00	BT	1		Rounded chert clast.
121.00	124.00	FLD	3		
128.00	129.00	BT	1		
159.00	160.00	FLD	1		
171.90	173.30	BT	5		

Oriented Structure Data													
Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
21.30	S0	Manual	40.00										
25.35	S0	Manual	45.00										
27.70	S0	Manual	59.00										
32.20	S0	Manual	70.00										
34.60	S2	Manual	40.00										
35.10	S0	Manual	60.00										
37.25	S2	Manual	40.00										
37.70	S0	Manual	70.00										
41.60	S2	Manual	65.00										
44.00	S0	Manual	60.00										
46.25	S0	Manual	50.00										
49.70	S1	Manual	72.00	20.00	206.70	-58.80	-48.47	304.82	0.00	34.82			
52.55	S2	Manual	55.00	60.00	206.03	-58.77	-56.51	332.59	0.00	62.59			
53.95	S0	Manual	56.00	310.00	205.53	-58.77	-58.50	265.37	0.00	355.37			
54.00	S2	Manual	17.00	20.00	205.53	-58.77	-77.53	135.10	0.00	225.10			
59.00	S0	Manual	75.00	0.00	203.33	-58.52	-46.48	293.33	0.00	23.33			
61.85	S0	Manual	75.00	20.00	204.70	-58.60	-45.75	301.80	0.00	31.80			
62.00	AxialPlane	Manual	75.00	330.00	204.70	-58.60	-44.95	284.15	0.00	14.15			
62.15		Manual	75.00	330.00	205.05	-58.60	-44.95	284.50	0.00	14.50	63.00	FAXIS	
62.30	S0	Manual	52.00										
74.35	S0	Manual	72.00										
78.00	AxialPlane	Manual	80.00										
80.30	VN	Manual	55.00										
81.25	S0	Manual	75.00										
87.00	S0	Manual	15.00										Bucky quartz veins
91.50	VN	Manual	45.00	225.00	207.37	-58.00	-30.16	201.73	0.00	291.73			
91.70	S1	Manual	66.00	60.00	207.23	-58.00	-48.17	325.45	0.00	55.45			
93.85	CNT	Manual	65.00	60.00	206.88	-57.98	-48.97	325.91	0.00	55.91			
94.15	S0	Manual	70.00	310.00	207.07	-57.97	-47.16	276.13	0.00	6.13			
101.15	S0	Manual	75.00	110.00	207.62	-57.70	-30.26	326.48	0.00	56.48			
106.25	S0	Manual	52.00	330.00	207.60	-57.77	-67.53	278.14	0.00	8.14			
112.40	CNT	Manual	54.00	140.00	207.70	-57.60	-22.43	19.67	0.00	109.67			
113.60	CNT	Manual	58.00	340.00	208.03	-57.62	-63.29	286.33	0.00	16.33			
114.80	S2	Manual	75.00	140.00	207.70	-57.65	-22.76	323.16	0.00	53.16			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
122.10	AxialPlane	Manual	70.00	10.00	208.55	-57.70	-52.10	302.87	0.00	32.87			
123.20	S0	Manual	40.00	150.00	208.52	-57.70	-26.13	58.08	0.00	148.08			
125.20	S0	Manual	52.00	120.00	208.57	-57.70	-33.84	11.78	0.00	101.78			
126.70	CNT	Manual	74.00										
131.80	VN	Manual	20.00	230.00	208.53	-57.73	-52.29	184.03	0.00	274.03			
143.70	S0	Manual	63.00	160.00	208.72	-57.68	-11.17	352.00	0.00	82.00			
143.80	S2	Manual	40.00	60.00	208.72	-57.68	-70.22	343.55	0.00	73.55			
156.50	S0	Manual	35.00	55.00	209.87	-57.68	-76.49	343.50	0.00	73.50			
157.00	S2	Manual	60.00	150.00	209.93	-57.67	-15.56	8.66	0.00	98.66			
159.50	AxialPlane	Manual	75.00	80.00	210.10	-57.63	-37.65	324.77	0.00	54.77			
159.50		Manual	75.00	80.00	210.10	-57.63	-37.65	324.77	0.00	54.77	170.00	FAXIS	
169.00	S0	Manual	59.00	60.00	209.80	-57.70	-54.06	333.23	0.00	63.23			
171.50	AxialPlane	Manual	47.00	70.00	209.80	-57.70	-60.43	347.27	0.00	77.27			
171.55		Manual	47.00	70.00	209.80	-57.70	-60.43	347.27	0.00	77.27	145.00	FAXIS	
171.90	CNT	Manual	42.00	63.00	209.80	-57.70	-67.34	345.65	0.00	75.65			
173.30	CNT	Manual	32.00	110.00	209.80	-57.70	-52.92	27.07	0.00	117.07			
174.00	S0	Manual	69.00	120.00	209.80	-57.70	-27.76	341.58	0.00	71.58			
179.90	CNT	Manual	70.00										
181.00	S0	Manual	65.00	120.00	209.80	-57.70	-28.48	349.93	0.00	79.93			
191.00	S0	Manual	75.00	140.00	209.80	-57.70	-22.72	325.32	0.00	55.32			
197.50	S2	Manual	70.00	350.00	209.80	-57.70	-52.10	295.48	0.00	25.48			

**Sample Data - ASSAY**

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
458242	19.00	21.00	2.00	2	VO18159190 - Finalized	20/07/2018	0.012	0.540	43.40	304.00	10.95	358.0	0.293	184.00	12.85	178.00	683.00
458243	21.00	23.00	2.00	2	VO18159190 - Finalized	20/07/2018	0.028	1.090	103.00	251.00	10.30	261.0	0.445	277.00	21.10	157.00	763.00
458244	23.00	25.00	2.00	2	VO18159190 - Finalized	20/07/2018	0.034	1.420	125.50	190.50	11.80	425.0	0.461	262.00	21.00	142.00	907.00
458245	25.00	27.00	2.00	2	VO18159190 - Finalized	20/07/2018	0.021	1.060	53.00	213.00	10.55	232.0	0.238	186.00	11.75	126.00	518.00
458246	27.00	29.00	2.00	2	VO18159190 - Finalized	20/07/2018	0.011	0.800	36.00	134.50	9.02	194.0	0.189	181.00	11.20	104.00	656.00
458247	29.00	31.00	2.00	2	VO18159190 - Finalized	20/07/2018	0.012	0.610	37.70	116.00	9.11	123.0	0.170	156.00	10.45	109.50	586.00
458248	31.00	33.00	2.00	2	VO18159190 - Finalized	20/07/2018	0.035	1.080	76.80	152.50	12.95	192.0	0.307	189.00	13.65	171.50	835.00
458250	33.00	35.00	2.00	2	VO18159190 - Finalized	20/07/2018	0.037	1.020	92.70	174.50	14.55	230.0	0.303	187.00	15.05	174.00	823.00
458251	35.00	37.00	2.00	2	VO18159190 - Finalized	20/07/2018	0.023	0.420	53.80	97.00	7.97	259.0	0.252	172.00	11.85	120.50	846.00
458252	37.00	39.00	2.00	2	VO18159190 - Finalized	20/07/2018	0.083	1.090	131.50	150.00	15.50	156.0	0.407	196.00	16.70	160.00	821.00
458253	39.00	41.50	2.50	2	VO18159190 - Finalized	20/07/2018	0.069	0.860	88.70	177.50	15.00	265.0	0.370	192.00	14.15	163.00	938.00







Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
458343	143.00	144.80	1.80	2	VO18154565 - Finalized	22/07/2018	0.005	0.290	3.80	50.70	7.11	320.0	0.009	271.00	5.65	53.70	239.00
458344	144.80	146.00	1.20	2	VO18154565 - Finalized	22/07/2018	0.001	0.160	39.90	105.00	9.59	1,080.0	0.011	346.00	0.35	82.20	118.00
458345	146.00	148.00	2.00	2	VO18154565 - Finalized	22/07/2018	0.001	0.230	34.60	149.00	8.22	867.0	0.003	274.00	0.20	97.40	86.00
458346	148.00	150.15	2.15	2	VO18154565 - Finalized	22/07/2018	0.001	0.320	47.40	158.50	8.23	1,060.0	0.007	290.00	0.53	110.50	99.00
458347	150.15	152.00	1.85	2	VO18154565 - Finalized	22/07/2018	0.010	0.350	9.20	77.80	5.96	207.0	0.025	287.00	5.89	56.80	303.00
458348	152.00	153.50	1.50	2	VO18154565 - Finalized	22/07/2018	0.006	0.260	1.30	56.30	5.99	191.0	0.018	262.00	4.40	45.50	281.00
458350	153.50	154.50	1.00	2	VO18154565 - Finalized	22/07/2018	0.007	0.210	1.60	73.50	6.04	253.0	0.015	234.00	4.28	41.80	225.00
458351	154.50	155.55	1.05	2	VO18154565 - Finalized	22/07/2018	0.002	0.440	72.10	135.50	8.73	1,190.0	0.003	317.00	0.45	124.00	154.00
458352	155.55	157.50	1.95	2	VO18154565 - Finalized	22/07/2018	0.005	0.250	9.70	61.60	7.27	411.0	0.013	233.00	3.52	43.10	229.00
458353	157.50	159.25	1.75	2	VO18154565 - Finalized	22/07/2018	0.006	0.200	33.90	61.20	6.23	262.0	0.016	244.00	3.48	45.40	359.00
458354	159.25	161.00	1.75	2	VO18154565 - Finalized	22/07/2018	0.001	0.060	6.80	30.00	5.77	161.0	0.006	81.00	0.42	32.30	109.00
458355	161.00	163.00	2.00	2	VO18154565 - Finalized	22/07/2018	0.001	0.050	3.80	45.10	7.48	278.0	0.003	58.00	0.26	27.60	79.00
458357	163.00	165.00	2.00	2	VO18154565 - Finalized	22/07/2018	0.001	0.020	11.00	15.50	5.37	245.0	0.003	68.00	0.18	30.30	77.00
458358	165.00	167.00	2.00	2	VO18154565 - Finalized	22/07/2018	0.001	0.030	10.80	18.90	5.23	382.0	0.003	67.00	0.46	28.60	73.00
458360	167.00	168.50	1.50	2	VO18154565 - Finalized	22/07/2018	0.002	0.020	11.90	26.50	5.13	287.0	0.005	68.00	0.33	30.80	80.00
458361	168.50	170.00	1.50	2	VO18154566 - Finalized	18/07/2018	0.007	0.080	10.90	49.40	5.23	292.0	0.013	131.00	2.33	44.50	165.00
458362	170.00	171.90	1.90	2	VO18154566 - Finalized	18/07/2018	0.007	0.150	0.20	65.30	5.58	438.0	0.023	145.00	1.78	37.30	167.00
458363	171.90	173.30	1.40	2	VO18154566 - Finalized	18/07/2018	0.002	0.230	1.20	57.60	10.75	4,760.0	0.021	75.00	2.67	37.20	111.00
458364	173.30	175.00	1.70	2	VO18154566 - Finalized	18/07/2018	0.019	0.940	13.60	177.00	20.30	712.0	0.119	147.00	12.70	122.00	498.00
458365	175.00	177.00	2.00	2	VO18154566 - Finalized	18/07/2018	0.013	0.580	1.40	106.50	12.55	150.0	0.087	207.00	12.85	74.10	732.00
458366	177.00	178.50	1.50	2	VO18154566 - Finalized	18/07/2018	0.019	0.720	4.20	112.00	13.55	260.0	0.124	359.00	36.00	74.10	860.00
458367	178.50	179.90	1.40	2	VO18154566 - Finalized	18/07/2018	0.021	1.340	0.70	262.00	26.70	469.0	0.126	146.00	14.25	161.00	598.00
458368	179.90	181.00	1.10	2	VO18154566 - Finalized	18/07/2018	0.036	0.080	5.30	21.90	18.75	5,570.0	0.005	13.00	0.51	9.00	29.00
458370	181.00	182.00	1.00	2	VO18154566 - Finalized	18/07/2018	0.021	0.040	4.90	7.70	21.30	6,840.0	0.009	24.00	1.09	5.70	31.00
458371	182.00	183.00	1.00	2	VO18154566 - Finalized	18/07/2018	0.003	0.010	7.80	1.80	24.70	6,320.0	0.003	6.00	0.11	1.40	11.00
458372	183.00	184.00	1.00	2	VO18154566 - Finalized	18/07/2018	0.001	0.060	0.70	10.00	26.10	5,620.0	0.003	18.00	1.02	6.70	39.00
458373	184.00	185.00	1.00	2	VO18154566 - Finalized	18/07/2018	0.009	0.010	1.60	8.40	29.00	6,360.0	0.003	9.00	0.05	2.00	34.00
458374	185.00	186.00	1.00	2	VO18154566 - Finalized	18/07/2018	0.084	0.010	1.50	6.90	30.60	6,410.0	0.003	10.00	0.06	2.40	29.00
458375	186.00	187.00	1.00	2	VO18154566 - Finalized	18/07/2018	0.001	0.010	8.70	3.70	21.70	10,400.0	0.003	34.00	0.23	5.50	24.00
458377	187.00	189.00	2.00	2	VO18154566 - Finalized	18/07/2018	0.015	0.130	32.30	69.50	8.99	1,300.0	0.008	264.00	3.08	52.00	164.00
458378	189.00	191.00	2.00	2	VO18154566 - Finalized	18/07/2018	0.017	0.050	4.30	27.10	5.66	275.0	0.003	74.00	0.31	27.00	99.00
458379	191.00	193.00	2.00	2	VO18154566 - Finalized	18/07/2018	0.002	0.050	4.80	22.50	4.31	262.0	0.003	70.00	0.51	31.60	72.00
458380	193.00	195.00	2.00	2	VO18154566 - Finalized	18/07/2018	0.001	0.040	2.90	22.70	4.39	204.0	0.003	75.00	0.54	32.10	79.00
458381	195.00	197.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.002	0.060	2.40	28.80	4.83	258.0	0.007	110.00	1.56	33.00	108.00
458382	197.00	198.35	1.35	2	VO18154567 - Finalized	21/07/2018	0.008	0.120	1.10	67.20	6.65	295.0	0.019	232.00	4.27	44.50	233.00
458383	198.35	199.00	0.65	2	VO18154567 - Finalized	21/07/2018	0.001	0.050	34.80	79.60	7.88	664.0	0.011	300.00	2.49	73.10	167.00



## Detailed Log Report

### Hole Number OSK-KAN-18-006

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-60.00 <b>Collar Az:</b> 220.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 368 241.00	<b>Length:</b>	190.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	June 21, 2018	<b>East:</b>	487 048.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	June 23, 2018	<b>Elev:</b>	137.40	<b>Casing Length:</b>	9.00 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	Y <b>Making Water:</b> N
<b>Logger 1:</b>	Simon Hebert			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	200			<b>Claims Title:</b>	2099222 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	9.00	OVB, Overburden					
<b>Comments:</b>							

From	To	Lithology	Sample	From	To	Length	Comments
9.00	67.30	S6, Mudrock	458384	9.00	11.00	2.00	S6; 3% Py DI BD 1% Po SJ BD; 4% I1N QZ AK
			458385	11.00	13.00	2.00	S6; 3% Py DI BD 1% Po SJ BD; 4% I1N QZ AK
<b>Comments:</b>			458386	13.00	15.00	2.00	S6; 4% I1N QZ AK
			458387	15.00	17.00	2.00	S6; 3% Py DI BD 2% Po SJ BD; 4% I1N QZ AK
			458388	17.00	19.00	2.00	S6; 3% Py DI BD 2% Po SJ BD; 4% I1N QZ AK
			458390	19.00	21.00	2.00	S6; 3% Py DI BD 2% Po SJ BD; 4% I1N QZ AK
			458391	21.00	23.00	2.00	S6; 3% Py DI BD 2% Po SJ BD; 4% I1N QZ AK
			458392	23.00	25.00	2.00	S6; 3% Py DI BD 2% Po SJ BD; 4% I1N QZ AK
			458393	25.00	27.00	2.00	S6; 1% Py SJ BD 3% Po SJ BD; 4% I1N QZ AK
			458394	27.00	29.00	2.00	S6; 1% Py SJ BD 3% Po SJ BD; 4% I1N QZ AK
			458395	29.00	31.00	2.00	S6; 1% Py SJ BD 3% Po SJ BD; 4% I1N QZ AK; FLD 5
			458397	31.00	33.00	2.00	S6; 3% Py SJ BD 3% Po SJ BD; 4% I1N QZ AK; FLD 5
			458398	33.00	35.00	2.00	S6; 3% Py SJ BD 3% Po SJ BD; FLD 5
			458399	35.00	37.00	2.00	S6; 3% Py SJ BD 3% Po SJ BD; 8% I1N QZ AK; FLD 5
			458400	37.00	39.00	2.00	S6; 3% Py SJ BD 3% Po SJ BD; 8% I1N QZ AK; FLD 5
			407701	39.00	41.00	2.00	S6
			407702	41.00	43.00	2.00	S6; 3% Py SJ BD 2% Po SJ BD; 5% I1N QZ AK
			407703	43.00	44.00	1.00	S6; 3% Py SJ BD 2% Po SJ BD; 5% I1N QZ AK
			407704	44.00	46.00	2.00	S6; 3% Py SJ BD 2% Po SJ BD; 5% I1N QZ AK
			407705	46.00	48.00	2.00	S6; 4% Py SJ BD 3% Po SJ BD; 5% I1N QZ AK
			407706	48.00	50.00	2.00	S6; 4% Py SJ BD 3% Po SJ BD
			407707	50.00	52.00	2.00	S6; 4% Py SJ BD 3% Po SJ BD; 8% I1N QZ
			407708	52.00	54.00	2.00	S6; 4% Py SJ BD 3% Po SJ BD; 8% I1N QZ
			407710	54.00	56.00	2.00	S6; 4% Py SJ BD 3% Po SJ BD
			407711	56.00	58.00	2.00	S6; 4% Py SJ BD 3% Po SJ BD; 3% I1N QZ AK
			407712	58.00	60.00	2.00	S6; 4% Py SJ BD 3% Po SJ BD; 3% I1N QZ AK
			407713	60.00	62.00	2.00	S6; 4% Py SJ BD 3% Po SJ BD; 3% I1N QZ AK
			407714	62.00	64.00	2.00	S6; 4% Py SJ BD 3% Po SJ BD; 3% I1N QZ AK
			407715	64.00	66.00	2.00	S6; 4% Py SJ BD 3% Po SJ BD; 3% I1N QZ AK
			407717	66.00	67.30	1.30	S6; 4% Py SJ BD 3% Po SJ BD; 3% I1N QZ AK

From	To	Lithology	Sample	From	To	Length	Comments
67.30	96.00	S6-S9, Mudrock-Iron formati	407718	67.30	68.00	0.70	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 6% Po SJ BD; 6% I1N QZ AK
			407719	68.00	69.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 6% Po SJ BD; 6% I1N QZ AK
<b>Comments:</b>			407720	69.00	70.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 6% Po SJ BD; 6% I1N QZ AK
			407721	70.00	71.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 6% Po SJ BD; 6% I1N QZ AK
			407722	71.00	72.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 6% Po SJ BD; 6% I1N QZ AK
			407723	72.00	73.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 6% Po SJ BD; 6% I1N QZ AK
			407724	73.00	74.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 6% Po SJ BD; 6% I1N QZ AK; BX 5
			407725	74.00	75.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 6% Po SJ BD; 6% I1N QZ AK; BX 5
			407726	75.00	76.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 6% Po SJ BD; 6% I1N QZ AK; BX 5
			407727	76.00	77.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 7% Po SJ BD 1% Cp AL VN 1% Sp DI BD; 6% I1N QZ AK
			407728	77.00	78.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 7% Po SJ BD 1% Cp AL VN 1% Sp DI BD; 1% I1N QZ AK
			407730	78.00	79.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 7% Po SJ BD 1% Cp AL VN 1% Sp DI BD; 1% I1N QZ AK
			407731	79.00	80.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 7% Po SJ BD 1% Cp AL VN 1% Sp DI BD; 1% I1N QZ AK; FLD 5
			407732	80.00	81.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 7% Po SJ BD 1% Cp AL VN 1% Sp DI BD; 1% I1N QZ AK; FLD 5
			407733	81.00	82.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 7% Po SJ BD 1% Cp AL VN 1% Sp DI BD; 1% I1N QZ AK; FLD 5
			407734	82.00	83.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 7% Po SJ BD 1% Cp AL VN 1% Sp DI BD; 1% I1N QZ AK; FLD 5
			407735	83.00	84.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 7% Po SJ BD 1% Cp AL VN 1% Sp DI BD; 1% I1N QZ AK; FLD 5
			407737	84.00	85.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 7% Po SJ BD 1% Cp AL VN 1% Sp DI BD; 1% I1N QZ AK; FLD 5
			407738	85.00	86.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 7% Po SJ BD 1% Cp AL VN 1% Sp DI BD; 1% I1N QZ AK; FLD 5
			407739	86.00	87.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 7% Po SJ BD 1% Cp AL VN 1% Sp DI BD; 35% I1N QZ AK
			407740	87.00	88.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 7% Po SJ BD 1% Cp AL VN 1% Sp DI BD; 35% I1N QZ AK
			407741	88.00	89.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% Py SJ BD 7% Po SJ BD 1% Cp AL VN 1% Sp DI BD; 3% I1N QZ AK
			407742	89.00	90.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 3% I1N QZ AK
			407743	90.00	91.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 2.5% Py SJ BD 4% Po DI BD; 3% I1N QZ AK
			407744	91.00	92.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 2.5% Py SJ BD 4% Po DI BD; 3% I1N QZ AK
			407745	92.00	93.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 2.5% Py SJ BD 4% Po DI BD; 3% I1N QZ AK
			407746	93.00	94.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 2.5% Py SJ BD 4% Po DI BD; 3% I1N QZ AK
			407747	94.00	95.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 2.5% Py SJ BD 4% Po DI BD; 3% I1N QZ AK
			407748	95.00	96.00	1.00	S6-S9; Chl-1 Ser-1 Ank-3; 2.5% Py SJ BD 4% Po DI BD; 3% I1N QZ AK

From	To	Lithology	Sample	From	To	Length	Comments		
96.00	115.00	S6, Mudrock	407750	96.00	98.00	2.00	S6 GP; 3% Py SS BD 2% Po DI BD; 1% I1N QZ AK		
<b>Comments:</b>	407751		98.00	100.00	2.00	S6 GP; 3% Py SS BD 2% Po DI BD; 1% I1N QZ AK			
	407752		100.00	102.00	2.00	S6 GP; 3% Py SS BD 2% Po DI BD; 1% I1N QZ AK			
	407753		102.00	104.00	2.00	S6 GP; 3% Py SS BD 2% Po DI BD; 1% I1N QZ AK			
	407754		104.00	106.00	2.00	S6 GP; 3% Py SS BD 2% Po DI BD; 1% I1N QZ AK			
	407755		106.00	108.00	2.00	S6 GP; 3% Py SS BD 2% Po DI BD; 1% I1N QZ AK			
	407757		108.00	110.00	2.00	S6 GP; 3% Py SS BD 2% Po DI BD; 1% I1N QZ AK			
	407758		110.00	112.00	2.00	S6 GP; 3% Py SS BD 2% Po DI BD; 1% I1N QZ AK			
	407759		112.00	114.00	2.00	S6 GP; 3% Py SS BD 2% Po DI BD; 1% I1N QZ AK			
	407760		114.00	115.00	1.00	S6 GP; 3% Py SS BD 2% Po DI BD; 1% I1N QZ AK			
	115.00	123.30	F1, Massive sulphide	407761	115.00	117.00	2.00	F1; 20% Py DI BD 4% Po AL BD; 4% I1N QZ	
<b>Comments:</b>	407762	117.00		119.00	2.00	F1; 20% Py DI BD 4% Po AL BD; 4% I1N QZ			
	407763	119.00		121.00	2.00	F1; 20% Py DI BD 4% Po AL BD; 4% I1N QZ			
	407764	121.00		122.30	1.30	F1; 20% Py DI BD 4% Po AL BD; 4% I1N QZ; FLD 3			
	407765	122.30		123.30	1.00	F1; 20% Py DI BD 4% Po AL BD; 4% I1N QZ			
	407766	123.30	124.50	1.20	S6; 3% Py AL BD; 10% I1N QZ AK				
123.30	154.75	S6, Mudrock	407767	124.50	126.00	1.50	S6; 3% Py AL BD; 10% I1N QZ AK		
<b>Comments:</b>	407768		126.00	128.00	2.00	S6; 3% Py AL BD; 10% I1N QZ AK			
	407770		128.00	130.00	2.00	S6; 3% Py AL BD; 10% I1N QZ AK			
	407771		130.00	132.00	2.00	S6; 3% Py AL BD; 10% I1N QZ AK			
	407772		132.00	134.00	2.00	S6; 3% Py AL BD; 10% I1N QZ AK			
	407773		134.00	136.00	2.00	S6; 3% Py AL BD			
	407774		136.00	138.00	2.00	S6; 3% Py AL BD; 2% I1N QZ AK			
	407775		138.00	140.00	2.00	S6; 2% I1N QZ AK			
	407777		140.00	142.00	2.00	S6; 4% Py DI PER 2% Po AL BD; 2% I1N QZ AK			
	407778		142.00	144.00	2.00	S6; 4% Py DI PER 2% Po AL BD; 2% I1N QZ AK			
	407779		144.00	146.00	2.00	S6; 4% Py DI PER 2% Po AL BD; 2% I1N QZ AK			
	407780		146.00	148.00	2.00	S6; 3% Py SUB BD; 2% I1N QZ AK			
	407781		148.00	150.00	2.00	S6; 3% Py SUB BD; 2% I1N QZ AK			
	407782		150.00	152.00	2.00	S6; 3% Py SUB BD; 2% I1N QZ AK			
	407783		152.00	153.50	1.50	S6; 3% Py SUB BD; 2% I1N QZ AK			
	407784		153.50	154.75	1.25	S6; 3% Py SUB BD; 2% I1N QZ AK			
	154.75		157.50	F1, Massive sulphide	407785	154.75	156.00	1.25	F1; 20% Py DI PER 1% Po SS BD
	<b>Comments:</b>		407786		156.00	157.50	1.50	F1; 20% Py DI PER 1% Po SS BD	

From	To	Lithology	Sample	From	To	Length	Comments	
157.50	188.15	<b>S9, Iron formation</b>	407787	157.50	159.00	1.50	S9D; Chl-2 Ank-2; 1% Po AL BD; 1% I1N QZ AK	
			407788	159.00	160.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL BD; 1% I1N QZ AK	
<b>Comments:</b>			407790	160.00	161.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL BD; 1% I1N QZ AK	
			407791	161.00	162.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL BD; 1% I1N QZ AK	
			407792	162.00	163.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL BD; 1% I1N QZ AK	
			407793	163.00	164.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL BD; 1% I1N QZ AK	
			407794	164.00	165.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL BD; 1% I1N QZ AK	
			407795	165.00	166.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL BD; 1% I1N QZ AK	
			407797	166.00	167.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL BD; 1% I1N QZ AK	
			407798	167.00	167.70	0.70	S9D; Chl-2 Ank-2; 1% Po AL BD	
			407799	167.70	169.00	1.30	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB	
			407800	169.00	170.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB	
			407801	170.00	171.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB	
			407802	171.00	172.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB	
			407803	172.00	173.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB	
			407804	173.00	174.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB	
			407805	174.00	175.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB	
			407806	175.00	176.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB	
			407807	176.00	177.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB	
			407808	177.00	178.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB	
		407810	178.00	179.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB		
		407811	179.00	180.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB		
		407812	180.00	181.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB		
		407813	181.00	182.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB		
		407814	182.00	183.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB		
		407815	183.00	184.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB		
		407817	184.00	185.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB		
		407818	185.00	186.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB		
		407819	186.00	187.00	1.00	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB		
		407820	187.00	188.15	1.15	S9C Ank; Chl-4 Ank-4; 3% Po AL VN; 6% I1N QZ AB		
188.15	190.00	<b>S6g, Grey Shale</b>	407821	188.15	189.00	0.85	S6g	
			407822	189.00	190.00	1.00	S6g	
<b>Comments:</b>								

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
19.00	60.70	-59.40	FM	Test Non-OK, DIP OK	
22.00	238.20	-59.70	FM	Test Non-OK, DIP OK	
25.00	223.90	-59.40	FM	Test OK-Accept	
28.00	223.30	-59.50	FM	Test OK-Accept	
31.00	223.80	-59.30	FM	Test OK-Accept	
34.00	222.30	-59.50	FM	Test NON-OK	
37.00	222.60	-59.40	FM	Test NON-OK	
40.00	223.20	-59.30	FM	Test OK-Accept	
43.00	222.80	-59.50	FM	Test OK-Accept	
46.00	222.30	-59.30	FM	Test NON-OK	
49.00	224.10	-59.30	FM	Test OK-Accept	
52.00	223.40	-59.50	FM	Test OK-Accept	
55.00	223.60	-59.30	FM	Test OK-Accept	
58.00	223.50	-59.50	FM	Test OK-Accept	
61.00	219.00	-59.50	FM	Test NON-OK	
64.00	224.80	-59.40	FM	Test NON-OK	
67.00	222.30	-59.60	FM	Test NON-OK	
70.00	223.10	-59.50	FM	Test NON-OK	
73.00	224.00	-59.50	FM	Test OK-Accept	
76.00	223.40	-59.50	FM	Test NON-OK	
79.00	224.10	-59.60	FM	Test OK-Accept	
82.00	225.40	-59.50	FM	Test OK-Accept	
85.00	225.50	-59.50	FM	Test OK-Accept	
88.00	225.40	-59.50	FM	Test OK-Accept	
91.00	224.80	-59.50	FM	Test OK-Accept	
94.00	224.70	-59.70	FM	Test OK-Accept	
97.00	224.40	-59.50	FM	Test OK-Accept	
100.00	224.50	-59.60	FM	Test OK-Accept	
103.00	224.80	-59.60	FM	Test OK-Accept	
106.00	226.10	-59.30	FM	Test NON-OK	
109.00	225.50	-59.70	FM	Test OK-Accept	
112.00	226.50	-59.60	FM	Test NON-OK	
115.00	226.10	-59.60	FM	Test OK-Accept	
118.00	226.00	-59.70	FM	Test OK-Accept	
121.00	225.30	-59.70	FM	Test OK-Accept	
124.00	225.20	-59.80	FM	Test OK-Accept	
127.00	225.40	-59.70	FM	Test OK-Accept	



Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
130.00	226.40	-59.70	FM	Test NON-OK	
133.00	225.60	-59.60	FM	Test OK-Accept	
136.00	226.00	-59.70	FM	Test OK-Accept	
139.00	225.50	-59.50	FM	Test OK-Accept	
142.00	225.60	-59.60	FM	Test NON-OK	
145.00	225.80	-59.40	FM	Test OK-Accept	
148.00	223.40	-59.50	FM	Test NON-OK	
151.00	223.20	-59.50	FM	Test NON-OK	
154.00	225.60	-59.40	FM	Test OK-Accept	
157.00	227.10	-59.40	FM	Test OK-Accept	
160.00	227.30	-59.30	FM	Test OK-Accept	
163.00	226.70	-59.30	FM	Test OK-Accept	
166.00	227.50	-59.20	FM	Test OK-Accept	
169.00	226.80	-59.30	FM	Test OK-Accept	
172.00	227.00	-59.30	FM	Test OK-Accept	
175.00	227.40	-59.20	FM	Test OK-Accept	
178.00	227.50	-59.10	FM	Test OK-Accept	
181.00	226.70	-59.10	FM	Test OK-Accept	
184.00	227.10	-59.20	FM	Test OK-Accept	
187.00	227.90	-59.00	FM	Test OK-Accept	
190.00	227.10	-59.10	FM	Test OK-Accept	

Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
9.00	67.30	S6	APH	TA	GP		S6			BK		1	Aph			DIF	Well folded black mudstone. Many fold hinge can be observed and the S2 are locally stronger dans S0.
67.30	96.00	S6-S9	HG	BX	GP	RU	S6-S9			GD	GL	2	FG	1		DIF	Alternance between graphitic black mudstone and iron formation with local centimeter and brecciated chert bed (clasts).The unit is injected by quartz veins montrly oriented in S0, and loccally in the iron formation beds, in S2.
96.00	115.00	S6	APH	GP	LA	HK	S6 GP			BK		1	Aph	0			Black mudstone with local quartz ankerite veinlets. S2 well developed.
115.00	123.30	F1	APH	LA			F1			BN		2	FG				Black mudstone with up to 20% sulfide.
123.30	154.75	S6	APH	GP	LA		S6			BK		1	Aph				
154.75	157.50	F1	RU	HJ			F1			BN		2	FG				
157.50	167.70	S9	HK	RU			S9D	20.00	Oxyde	VL		2	FG				Silicate iron formation localy brecciated.
167.70	188.15	S9	HK	RU			S9C Ank	5.00	Silica	GM	VM	3	FG				Carbonate iron formation folded.
188.15	190.00	S6g	AC	HJ			S6g			GD	BK	1	Aph				Grey mudstone

Mineralization Data																	
From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
9.00	14.00		Py	3.00	DI	BD		Po	1.00	SJ	BD						
14.00	25.00		Py	3.00	DI	BD		Po	2.00	SJ	BD	Pyrrhotite also concentrated in S2					
25.00	31.00		Py	1.00	SJ	BD		Po	3.00	SJ	BD	Pyrrhotite also concentrated in fold hinge					
31.00	40.00		Py	3.00	SJ	BD		Po	3.00	SJ	BD						
40.00	46.00		Py	3.00	SJ	BD		Po	2.00	SJ	BD						
46.00	67.30		Py	4.00	SJ	BD		Po	3.00	SJ	BD						
67.30	76.00		Py	3.00	SJ	BD		Po	6.00	SJ	BD						
76.00	89.50		Py	3.00	SJ	BD		Po	7.00	SJ	BD	Pyrrhotite locally interstitial in a brecciated zone	Cp	1.00	AL	VN	
89.50	96.00		Py	2.50	SJ	BD		Po	4.00	DI	BD						
96.00	115.00		Py	3.00	SS	BD		Po	2.00	DI	BD						
115.00	123.30		Py	20.00	DI	BD	The pyrite are also semi-massive in the interval	Po	4.00	AL	BD	The pyrite are also semi-massive in the interval					
123.30	138.50		Py	3.00	AL	BD											
138.50	146.00		Py	4.00	DI	PER		Po	2.00	AL	BD						
146.00	154.75		Py	3.00	SUB	BD											
154.75	157.50		Py	20.00	DI	PER	The pyrite is also semi massive in the interval	Po	1.00	SS	BD	The pyrite is also semi massive in the interval					
157.50	167.70		Po	1.00	AL	BD	Pyrrhotite are also observed disseminated in chert					Pyrrhotite are also observed disseminated in chert					
167.70	188.15		Po	3.00	AL	VN											

Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
67.30	96.00	Chl	1	VN	Ser	1	VN	Ank		VN	The sericite and chlorite alteration is located in the salvage of quartz veins and veinlets.
96.00	157.50										
157.50	167.70	Chl	2	VN	Ank	2	VN				Associated with quartz veins.
167.70	188.15	Chl	4	VN	Ank	4	VN				Associated with quartz veins and penetrative in the host rock.

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
9.00	34.00	4.00		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	5.00										Mainly oriented in S0
34.00	39.40	8.00		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	5.00										
39.40	49.50	5.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00										
49.50	54.50	8.00		I1N	UNK	Veinlet <5cm	QZ													
54.50	67.30	3.00		I1N	UNK	Vein >5cm	QZ	95.00	AK	5.00										Oreinted in S2
67.30	77.00	6.00		I1N	UNK	Veinlet <5cm	QZ	94.00	AK	4.00										
77.00	86.00	1.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00										
86.00	88.00	35.00		I1N	UNK	Vein >5cm	QZ	96.00	AK	4.00										
88.00	96.00	3.00		I1N	UNK	Veinlet <5cm	QZ	94.00	AK	6.00										
96.00	115.00	1.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00										
115.00	123.30	4.00		I1N	UNK	Veinlet <5cm	QZ	100.00												
123.30	135.00	10.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00										
135.00	154.75	2.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00										
157.50	167.60	1.00		I1N	UNK	Veinlet <5cm	QZ	92.00	AK	5.00	CL	3.00								
167.60	188.15	6.00		I1N	EXT VN	Vein >5cm	QZ	85.00	AB	10.00	CL	5.00				Po	3.00			

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
29.00	39.00	FLD	5	70.00	Well folded interval with few fold hinge.
73.00	76.60	BX	5		Brecched black shale with interstitial pyrrhotite.
79.00	86.00	FLD	5		Well folded interval with few fold hinge.
120.00	123.00	FLD	3		Asymetric fold hinge
142.00	143.00	FLD	3		Asymetric fold hinge

Oriented Structure Data													
Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
12.50	S0	Manual	50.00										
19.00	S2	Manual	35.00	70.00	90.28	-59.45	-69.42	235.59	0.00	325.59			
19.00	S0	Manual	45.00	200.00	90.28	-59.45	-18.79	48.94	0.00	138.94			
21.00	S0	Manual	68.00										
21.00	S2	Manual	63.00										
28.50	AxialPlane	Manual	70.00										
37.80	AxialPlane	Manual	70.00										
42.50	AxialPlane	Manual	65.00	40.00	222.90	-59.30	-52.12	333.03	0.00	63.03			
42.50		Manual	65.00	40.00	222.90	-59.30	-52.12	333.03	0.00	63.03	80.00	FAXIS	
44.50	AxialPlane	Manual	35.00	360.00	223.98	-59.33	-85.67	313.98	0.00	43.98			
44.80	S2	Manual	60.00	40.00	223.87	-59.37	-56.63	336.50	0.00	66.50			
44.80		Manual	64.00	40.00	223.87	-59.37	-52.97	334.54	0.00	64.54	60.00	ILINE	
54.50	S0	Manual	60.00	70.00	219.97	-59.48	-48.76	348.64	0.00	78.64			
57.70	S2	Manual	60.00	80.00	223.55	-59.50	-45.40	357.30	0.00	87.30			
63.20	S0	Manual	68.00	120.00	223.70	-59.50	-26.63	0.08	0.00	90.08			
64.00	S0	Manual	65.00	150.00	223.85	-59.50	-14.84	9.46	0.00	99.46			
64.00		Manual	65.00	150.00	223.85	-59.50	-14.84	9.46	0.00	99.46	125.00	ILINE	
67.50	S0	Manual	60.00	90.00	223.63	-59.53	-41.72	2.34	0.00	92.34			
77.30	S0	Manual	58.00	130.00	225.20	-59.50	-25.37	26.56	0.00	116.56			
81.10	S0	Manual	47.00	60.00	224.72	-59.67	-62.68	356.38	0.00	86.38			
81.10		Manual	47.00	60.00	224.72	-59.67	-62.68	356.38	0.00	86.38	128.00	ILINE	
81.10		Manual	62.00	360.00	224.72	-59.67	-58.33	314.72	0.00	44.72	30.00	FAXIS	
81.20	AxialPlane	Manual	62.00	360.00	224.72	-59.67	-58.33	314.72	0.00	44.72			
87.50	VN	Manual	60.00										
88.00	S0	Manual	60.00	40.00	224.65	-59.60	-56.42	337.34	0.00	67.34			
100.50	S0	Manual	55.00	140.00	226.05	-59.65	-21.74	40.67	0.00	130.67			
100.60	S2	Manual	35.00	180.00	226.03	-59.67	-24.67	136.03	0.00	226.03			
104.00	S0	Manual	60.00	170.00	225.42	-59.70	-5.03	37.68	0.00	127.68			
104.00		Manual	60.00	170.00	225.42	-59.70	-5.03	37.68	0.00	127.68	120.00	CLINE	
110.70	S0	Manual	70.00										
115.60	S0	Manual	55.00										
121.60	AxialPlane	Manual	80.00	70.00	225.63	-59.57	-35.01	332.16	0.00	62.16			
121.60		Manual	80.00	70.00	225.63	-59.57	-35.01	332.16	0.00	62.16	0.00	FAXIS	
132.80	S0	Manual	60.00	66.00	226.35	-59.40	-50.07	352.91	0.00	82.91			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
138.70	AxialPlane	Manual	75.00	200.00	226.80	-59.30	-17.31	299.49	0.00	29.49			
138.70		Manual	75.00	200.00	226.80	-59.30	-17.31	299.49	0.00	29.49	70.00	FAXIS	
143.80	S0	Manual	70.00	80.00	223.80	-59.30	-38.95	346.20	0.00	76.20			
147.30	S0	Manual	70.00	120.00	227.13	-59.27	-26.48	358.77	0.00	88.77			
157.50	CNT	Manual	70.00	120.00	227.37	-59.13	-26.58	358.82	0.00	88.82			
157.80	S0	Manual	70.00	130.00	227.50	-59.10	-23.19	359.21	0.00	89.21			

**Sample Data - ASSAY**

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
458384	9.00	11.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.038	1.190	122.50	130.00	17.00	106.0	0.298	216.00	19.85	189.00	710.00
458385	11.00	13.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.005	0.540	20.90	178.00	11.20	84.0	0.126	205.00	12.40	179.00	828.00
458386	13.00	15.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.004	0.610	21.90	186.00	12.00	87.0	0.140	192.00	10.25	168.50	904.00
458387	15.00	17.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.002	0.470	14.50	219.00	12.20	363.0	0.178	168.00	9.41	188.50	1 020.00
458388	17.00	19.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.002	0.400	25.40	127.00	9.84	137.0	0.158	184.00	9.14	131.00	856.00
458390	19.00	21.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.005	0.540	19.30	173.50	10.95	127.0	0.123	180.00	11.95	164.00	703.00
458391	21.00	23.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.004	0.490	18.50	166.00	9.60	115.0	0.145	199.00	10.10	148.50	746.00
458392	23.00	25.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.006	0.590	37.30	120.00	9.96	233.0	0.180	185.00	9.24	134.00	943.00
458393	25.00	27.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.005	0.560	11.20	125.00	8.57	109.0	0.132	197.00	9.79	127.50	805.00
458394	27.00	29.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.008	0.740	26.40	120.50	9.90	72.0	0.211	185.00	11.45	145.50	1 280.00
458395	29.00	31.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.006	0.770	12.10	133.00	10.15	121.0	0.190	206.00	10.20	136.00	1 340.00
458397	31.00	33.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.003	0.780	39.50	160.50	13.10	146.0	0.180	184.00	9.92	164.00	1 040.00
458398	33.00	35.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.003	0.640	31.60	141.00	12.15	424.0	0.107	156.00	8.74	123.50	748.00
458399	35.00	37.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.004	0.690	19.30	112.50	9.55	407.0	0.072	127.00	7.39	106.00	401.00
458400	37.00	39.00	2.00	2	VO18154567 - Finalized	21/07/2018	0.004	0.800	29.70	136.50	13.00	195.0	0.089	150.00	8.06	144.00	555.00
407701	39.00	41.00	2.00	2	VO18154568 - Finalized	16/08/2018	0.006	0.690	19.70	122.50	10.20	306.0	0.110	174.00	10.40	129.50	723.00
407702	41.00	43.00	2.00	2	VO18154568 - Finalized	16/08/2018	0.012	0.930	10.00	132.00	10.15	191.0	0.097	176.00	11.60	130.00	685.00
407703	43.00	44.00	1.00	2	VO18154568 - Finalized	16/08/2018	0.009	0.840	7.20	150.50	9.93	179.0	0.106	183.00	13.25	135.00	802.00
407704	44.00	46.00	2.00	2	VO18154568 - Finalized	16/08/2018	0.004	0.630	7.00	97.40	6.91	66.0	0.115	176.00	9.82	98.20	822.00
407705	46.00	48.00	2.00	2	VO18154568 - Finalized	16/08/2018	0.009	1.380	73.60	121.50	12.60	621.0	0.107	148.00	9.41	128.50	791.00
407706	48.00	50.00	2.00	2	VO18154568 - Finalized	16/08/2018	0.007	0.840	16.30	146.00	11.65	116.0	0.080	179.00	15.45	150.00	610.00
407707	50.00	52.00	2.00	2	VO18154568 - Finalized	16/08/2018	0.008	0.890	16.80	120.00	9.86	230.0	0.078	173.00	11.00	121.50	596.00
407708	52.00	54.00	2.00	2	VO18154568 - Finalized	16/08/2018	0.009	0.940	37.30	129.50	11.50	332.0	0.116	172.00	10.10	132.00	1 040.00
407710	54.00	56.00	2.00	2	VO18154568 - Finalized	16/08/2018	0.009	0.970	10.90	162.00	11.20	240.0	0.081	199.00	10.45	156.00	641.00
407711	56.00	58.00	2.00	2	VO18154568 - Finalized	16/08/2018	0.012	0.890	26.40	109.00	10.35	341.0	0.067	159.00	8.79	111.00	649.00
407712	58.00	60.00	2.00	2	VO18154568 - Finalized	16/08/2018	0.008	0.760	12.20	126.00	9.60	493.0	0.066	143.00	9.64	108.50	596.00
407713	60.00	62.00	2.00	2	VO18154568 - Finalized	16/08/2018	0.013	1.000	22.90	149.50	11.60	492.0	0.055	150.00	8.68	143.00	496.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
407714	62.00	64.00	2.00	2	VO18154568 - Finalized	16/08/2018	0.013	1.120	24.50	165.00	11.65	456.0	0.059	165.00	12.90	150.00	549.00
407715	64.00	66.00	2.00	2	VO18154568 - Finalized	16/08/2018	0.023	1.210	15.00	246.00	12.65	454.0	0.119	189.00	9.98	172.00	1 160.00
407717	66.00	67.30	1.30	2	VO18154568 - Finalized	16/08/2018	0.048	2.200	32.70	327.00	16.85	1,480.0	0.252	732.00	68.90	214.00	2 120.00
407718	67.30	68.00	0.70	2	VO18154568 - Finalized	16/08/2018	0.067	2.830	34.20	435.00	21.30	4,560.0	0.154	894.00	128.50	252.00	1 400.00
407719	68.00	69.00	1.00	2	VO18154568 - Finalized	16/08/2018	0.077	2.740	16.70	397.00	20.60	6,960.0	0.189	885.00	105.00	246.00	1 580.00
407720	69.00	70.00	1.00	2	VO18154568 - Finalized	16/08/2018	0.086	2.370	40.80	362.00	17.70	3,040.0	0.357	1 160.00	121.00	205.00	2 760.00
407721	70.00	71.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.107	2.300	214.00	524.00	19.95	9,280.0	0.239	910.00	98.10	211.00	1 930.00
407722	71.00	72.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.075	1.950	130.50	401.00	19.50	13,550.0	0.162	784.00	80.70	177.00	1 560.00
407723	72.00	73.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.082	2.090	330.00	355.00	19.90	9,980.0	0.215	915.00	102.00	187.50	1 930.00
407724	73.00	74.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.075	1.580	250.00	368.00	18.45	8,220.0	0.131	693.00	88.00	146.50	1 170.00
407725	74.00	75.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.081	1.520	137.50	528.00	19.65	9,480.0	0.131	710.00	89.70	154.00	1 230.00
407726	75.00	76.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.078	1.750	264.00	332.00	18.60	8,540.0	0.142	782.00	94.60	147.50	1 190.00
407727	76.00	77.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.119	1.960	282.00	444.00	19.45	5,180.0	0.318	881.00	116.50	203.00	3 410.00
407728	77.00	78.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.091	1.620	269.00	355.00	18.95	11,950.0	0.323	895.00	85.00	133.50	3 060.00
407730	78.00	79.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.092	1.310	446.00	344.00	20.20	11,850.0	0.255	721.00	73.10	113.50	2 450.00
407731	79.00	80.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.094	1.260	271.00	470.00	20.70	8,910.0	0.269	745.00	77.40	125.50	2 390.00
407732	80.00	81.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.058	0.700	98.20	207.00	21.90	11,300.0	0.080	363.00	31.40	59.50	986.00
407733	81.00	82.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.043	0.560	95.50	227.00	21.70	10,700.0	0.088	363.00	31.50	56.90	1 040.00
407734	82.00	83.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.064	0.530	69.40	244.00	21.50	9,480.0	0.046	342.00	31.70	62.70	756.00
407735	83.00	84.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.048	0.640	70.30	320.00	22.00	10,850.0	0.074	390.00	37.60	80.10	964.00
407737	84.00	85.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.065	0.660	115.50	231.00	20.20	10,650.0	0.091	372.00	35.20	67.10	996.00
407738	85.00	86.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.083	0.880	160.00	348.00	20.10	10,050.0	0.144	627.00	73.10	80.30	1 810.00
407739	86.00	87.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.032	0.390	41.80	279.00	24.00	16,050.0	0.057	243.00	19.90	62.00	854.00
407740	87.00	88.00	1.00	2	VO18154569 - Finalized	18/07/2018	0.032	0.470	42.10	258.00	19.55	8,370.0	0.048	250.00	20.30	74.10	573.00
407741	88.00	89.00	1.00	2	VO18154577 - Finalized	16/07/2018	0.112	1.180	158.50	290.00	21.90	7,950.0	0.260	616.00	70.40	141.00	4 000.00
407742	89.00	90.00	1.00	2	VO18154577 - Finalized	16/07/2018	0.104	0.930	201.00	193.50	20.00	11,900.0	0.125	551.00	63.20	87.90	1 520.00
407743	90.00	91.00	1.00	2	VO18154577 - Finalized	16/07/2018	0.049	0.470	88.60	159.50	21.90	12,350.0	0.049	243.00	22.70	43.30	647.00
407744	91.00	92.00	1.00	2	VO18154577 - Finalized	16/07/2018	0.070	0.690	84.10	237.00	19.85	12,600.0	0.129	351.00	38.10	69.00	1 660.00
407745	92.00	93.00	1.00	2	VO18154577 - Finalized	16/07/2018	0.066	0.700	84.60	185.50	19.60	12,700.0	0.095	301.00	32.40	52.70	1 200.00
407746	93.00	94.00	1.00	2	VO18154577 - Finalized	16/07/2018	0.072	0.970	55.10	159.00	19.70	14,300.0	0.137	325.00	30.90	58.50	1 480.00
407747	94.00	95.00	1.00	2	VO18154577 - Finalized	16/07/2018	0.041	1.120	77.00	322.00	18.00	5,020.0	0.099	327.00	21.60	145.00	934.00
407748	95.00	96.00	1.00	2	VO18154577 - Finalized	16/07/2018	0.143	2.300	30.30	462.00	20.90	5,490.0	0.266	717.00	78.70	202.00	2 140.00
407750	96.00	98.00	2.00	2	VO18154577 - Finalized	16/07/2018	0.078	1.380	4.10	221.00	10.95	1,450.0	0.205	607.00	52.40	116.50	1 560.00
407751	98.00	100.00	2.00	2	VO18154577 - Finalized	16/07/2018	0.009	0.640	3.40	179.00	8.80	295.0	0.078	186.00	11.25	103.00	778.00
407752	100.00	102.00	2.00	2	VO18154577 - Finalized	16/07/2018	0.013	0.610	3.70	201.00	10.45	507.0	0.094	158.00	9.49	128.00	838.00
407753	102.00	104.00	2.00	2	VO18154577 - Finalized	16/07/2018	0.016	0.630	4.00	193.00	8.54	307.0	0.121	187.00	9.13	125.50	919.00
407754	104.00	106.00	2.00	2	VO18154577 - Finalized	16/07/2018	0.016	0.780	8.20	213.00	10.65	268.0	0.116	179.00	9.72	169.50	1 060.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
407755	106.00	108.00	2.00	2	VO18154577 - Finalized	16/07/2018	0.018	0.960	7.40	193.00	11.90	470.0	0.118	170.00	8.47	180.00	894.00
407757	108.00	110.00	2.00	2	VO18154577 - Finalized	16/07/2018	0.006	0.590	6.30	165.50	9.73	257.0	0.109	188.00	9.79	165.50	1 070.00
407758	110.00	112.00	2.00	2	VO18154577 - Finalized	16/07/2018	0.010	0.620	9.80	149.00	9.39	156.0	0.087	199.00	9.65	150.00	610.00
407759	112.00	114.00	2.00	2	VO18154577 - Finalized	16/07/2018	0.011	0.550	11.10	154.50	10.00	113.0	0.082	211.00	10.80	154.00	793.00
407760	114.00	115.00	1.00	2	VO18154577 - Finalized	16/07/2018	0.048	1.110	67.20	139.50	14.20	116.0	0.160	212.00	14.95	174.50	709.00
407761	115.00	117.00	2.00	2	VO18159195 - Finalized	20/07/2018	0.083	1.600	137.50	85.40	18.40	64.0	0.258	269.00	24.60	137.00	568.00
407762	117.00	119.00	2.00	2	VO18159195 - Finalized	20/07/2018	0.154	1.980	180.00	106.00	21.20	66.0	0.258	215.00	22.90	166.00	546.00
407763	119.00	121.00	2.00	2	VO18159195 - Finalized	20/07/2018	0.065	1.440	130.00	192.50	20.50	92.0	0.220	226.00	21.50	200.00	924.00
407764	121.00	122.30	1.30	2	VO18159195 - Finalized	20/07/2018	0.114	2.120	152.00	150.50	22.10	61.0	0.266	221.00	27.50	198.50	784.00
407765	122.30	123.30	1.00	2	VO18159195 - Finalized	20/07/2018	0.047	1.410	97.80	236.00	20.90	66.0	0.188	226.00	23.00	242.00	686.00
407766	123.30	124.50	1.20	2	VO18159195 - Finalized	20/07/2018	0.012	0.400	9.50	189.50	10.70	86.0	0.079	187.00	12.85	159.50	716.00
407767	124.50	126.00	1.50	2	VO18159195 - Finalized	20/07/2018	0.001	0.440	5.80	203.00	11.10	310.0	0.053	182.00	12.00	159.50	528.00
407768	126.00	128.00	2.00	2	VO18159195 - Finalized	20/07/2018	0.002	0.520	11.10	167.00	9.73	186.0	0.106	186.00	10.10	140.00	1 020.00
407770	128.00	130.00	2.00	2	VO18159195 - Finalized	20/07/2018	0.034	0.400	18.00	131.00	8.73	72.0	0.094	193.00	12.45	128.00	798.00
407771	130.00	132.00	2.00	2	VO18159195 - Finalized	20/07/2018	0.003	0.540	15.50	251.00	12.80	135.0	0.075	192.00	12.05	197.00	776.00
407772	132.00	134.00	2.00	2	VO18159195 - Finalized	20/07/2018	0.009	0.390	20.40	172.00	11.80	407.0	0.082	169.00	10.65	169.50	583.00
407773	134.00	136.00	2.00	2	VO18159195 - Finalized	20/07/2018	0.015	0.540	35.70	142.50	9.75	353.0	0.096	192.00	12.30	133.50	607.00
407774	136.00	138.00	2.00	2	VO18159195 - Finalized	20/07/2018	0.018	0.640	55.80	221.00	14.45	155.0	0.126	197.00	12.00	213.00	966.00
407775	138.00	140.00	2.00	2	VO18159195 - Finalized	20/07/2018	0.018	0.520	119.00	122.50	13.20	228.0	0.219	287.00	23.70	150.50	983.00
407777	140.00	142.00	2.00	2	VO18159195 - Finalized	20/07/2018	0.032	0.620	172.00	96.70	12.90	347.0	0.306	511.00	46.80	152.00	1 540.00
407778	142.00	144.00	2.00	2	VO18159195 - Finalized	20/07/2018	0.015	0.420	76.30	167.50	10.70	199.0	0.193	229.00	18.55	151.50	895.00
407779	144.00	146.00	2.00	2	VO18159195 - Finalized	20/07/2018	0.025	0.620	149.00	115.00	12.10	279.0	0.243	446.00	38.30	154.00	885.00
407780	146.00	148.00	2.00	2	VO18159195 - Finalized	20/07/2018	0.017	0.470	65.20	162.00	12.25	212.0	0.124	158.00	10.95	155.00	696.00
407781	148.00	150.00	2.00	2	VO18159173 - Finalized	27/07/2018	0.011	0.380	25.40	108.00	7.30	245.0	0.057	166.00	10.30	97.90	427.00
407782	150.00	152.00	2.00	2	VO18159173 - Finalized	27/07/2018	0.018	0.400	42.70	81.90	7.71	253.0	0.115	180.00	10.50	123.00	715.00
407783	152.00	153.50	1.50	2	VO18159173 - Finalized	27/07/2018	0.024	0.390	45.50	130.50	10.65	153.0	0.089	166.00	9.19	105.00	390.00
407784	153.50	154.75	1.25	2	VO18159173 - Finalized	27/07/2018	0.034	0.540	51.00	111.00	10.75	218.0	0.147	170.00	10.50	91.30	291.00
407785	154.75	156.00	1.25	2	VO18159173 - Finalized	27/07/2018	0.169	1.550	196.00	104.50	22.10	405.0	0.705	104.00	18.55	101.50	1 740.00
407786	156.00	157.50	1.50	2	VO18159173 - Finalized	27/07/2018	0.125	1.230	158.00	157.00	24.00	486.0	0.336	108.00	13.10	92.70	908.00
407787	157.50	159.00	1.50	2	VO18159173 - Finalized	27/07/2018	0.002	0.170	1.50	108.50	14.20	4,130.0	0.010	24.00	2.78	25.40	57.00
407788	159.00	160.00	1.00	2	VO18159173 - Finalized	27/07/2018	0.001	0.030	22.50	6.60	10.15	2,970.0	0.009	7.00	0.27	3.40	12.00
407790	160.00	161.00	1.00	2	VO18159173 - Finalized	27/07/2018	0.002	0.190	204.00	80.70	13.65	4,530.0	0.007	26.00	0.49	19.90	24.00
407791	161.00	162.00	1.00	2	VO18159173 - Finalized	27/07/2018	0.001	0.080	210.00	18.10	18.40	4,860.0	0.007	12.00	0.14	4.20	18.00
407792	162.00	163.00	1.00	2	VO18159173 - Finalized	27/07/2018	0.004	0.120	20.80	62.10	21.70	4,720.0	0.003	20.00	0.70	19.30	9.00
407793	163.00	164.00	1.00	2	VO18159173 - Finalized	27/07/2018	0.002	0.050	10.30	14.20	23.30	6,280.0	0.003	15.00	1.41	13.40	20.00
407794	164.00	165.00	1.00	2	VO18159173 - Finalized	27/07/2018	0.003	0.020	8.30	6.50	23.90	6,850.0	0.003	16.00	0.58	4.20	9.00
407795	165.00	166.00	1.00	2	VO18159173 - Finalized	27/07/2018	0.007	0.010	7.20	2.20	22.80	8,270.0	0.003	24.00	0.43	2.80	7.00



Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
407797	166.00	167.00	1.00	2	VO18159173 - Finalized	27/07/2018	0.011	0.010	8.60	2.40	22.40	8,100.0	0.003	21.00	0.36	3.10	8.00
407798	167.00	167.70	0.70	2	VO18159173 - Finalized	27/07/2018	0.239	0.020	11.30	2.90	23.20	9,220.0	0.005	13.00	0.27	3.80	14.00
407799	167.70	169.00	1.30	2	VO18159173 - Finalized	27/07/2018	0.078	0.010	1.60	5.10	21.50	6,090.0	0.003	5.00	0.08	1.00	16.00
407800	169.00	170.00	1.00	2	VO18159173 - Finalized	27/07/2018	0.033	0.005	0.70	2.00	23.70	7,360.0	0.006	5.00	0.09	1.20	15.00
407801	170.00	171.00	1.00	2	VO18159171 - Finalized	21/07/2018	0.001	0.005	1.50	1.20	24.30	8,570.0	0.003	11.00	0.14	2.40	10.00
407802	171.00	172.00	1.00	2	VO18159171 - Finalized	21/07/2018	0.516	0.040	0.40	3.00	24.10	5,780.0	0.041	8.00	0.28	1.70	10.00
407803	172.00	173.00	1.00	2	VO18159171 - Finalized	21/07/2018	1.070	0.030	0.90	6.30	25.70	6,410.0	0.003	8.00	0.09	1.70	23.00
407804	173.00	174.00	1.00	2	VO18159171 - Finalized	21/07/2018	0.022	0.020	3.20	2.20	29.60	7,870.0	0.003	11.00	0.15	3.00	24.00
407805	174.00	175.00	1.00	2	VO18159171 - Finalized	21/07/2018	0.464	0.030	1.60	4.00	28.30	7,570.0	0.003	11.00	0.07	1.30	24.00
407806	175.00	176.00	1.00	2	VO18159171 - Finalized	21/07/2018	0.008	0.020	1.50	0.90	30.10	7,330.0	0.003	10.00	0.09	1.20	9.00
407807	176.00	177.00	1.00	2	VO18159171 - Finalized	21/07/2018	1.535	0.100	6.20	8.90	26.10	7,360.0	0.032	12.00	0.10	3.50	21.00
407808	177.00	178.00	1.00	2	VO18159171 - Finalized	21/07/2018	0.116	0.010	7.90	2.00	25.10	8,370.0	0.007	9.00	0.12	3.00	11.00
407810	178.00	179.00	1.00	2	VO18159171 - Finalized	21/07/2018	1.520	0.050	1.20	6.00	30.90	8,570.0	0.006	8.00	0.07	1.60	13.00
407811	179.00	180.00	1.00	2	VO18159171 - Finalized	21/07/2018	0.018	0.010	0.30	1.50	25.70	6,690.0	0.003	7.00	0.09	1.20	12.00
407812	180.00	181.00	1.00	2	VO18159171 - Finalized	21/07/2018	2.320	4.210	0.60	15.30	29.00	7,620.0	0.035	7.00	0.06	2.10	29.00
407813	181.00	182.00	1.00	2	VO18159171 - Finalized	21/07/2018	0.498	0.030	0.40	3.80	32.20	7,290.0	0.011	6.00	0.05	0.90	28.00
407814	182.00	183.00	1.00	2	VO18159171 - Finalized	21/07/2018	0.327	0.010	0.30	5.80	27.60	6,300.0	0.005	8.00	0.06	0.90	28.00
407815	183.00	184.00	1.00	2	VO18159171 - Finalized	21/07/2018	0.781	0.020	26.30	5.30	23.60	7,070.0	0.007	9.00	0.12	2.50	15.00
407817	184.00	185.00	1.00	2	VO18159171 - Finalized	21/07/2018	0.001	0.010	2.80	7.50	20.80	12,650.0	0.003	46.00	0.33	10.00	12.00
407818	185.00	186.00	1.00	2	VO18159171 - Finalized	21/07/2018	0.001	0.030	29.30	8.50	25.70	16,850.0	0.003	61.00	1.01	11.20	23.00
407819	186.00	187.00	1.00	2	VO18159171 - Finalized	21/07/2018	0.002	0.090	19.30	15.70	17.70	7,850.0	0.003	101.00	1.34	22.90	68.00
407820	187.00	188.15	1.15	2	VO18159171 - Finalized	21/07/2018	0.024	0.150	18.50	9.80	24.20	14,250.0	0.003	63.00	0.72	11.90	45.00
407821	188.15	189.00	0.85	2	VO18159198 - Finalized	21/07/2018	0.012	0.170	18.20	32.50	10.95	543.0	0.003	221.00	1.51	58.30	118.00
407822	189.00	190.00	1.00	2	VO18159198 - Finalized	21/07/2018	0.010	0.180	23.10	42.50	10.15	538.0	0.003	248.00	1.97	62.70	161.00



## Detailed Log Report

### Hole Number OSK-KAN-18-007

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-68.00 <b>Collar Az:</b> 220.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 368 273.00	<b>Length:</b>	220.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	June 24, 2018	<b>East:</b>	486 805.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	June 25, 2018	<b>Elev:</b>	101.00	<b>Casing Length:</b>	16.00 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	Y <b>Making Water:</b> N
<b>Logger 1:</b>	Simon Hebert			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	150			<b>Claims Title:</b>	2099222 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	16.00	OVB, Overburden					
<b>Comments:</b>							

From	To	Lithology	Sample	From	To	Length	Comments	
16.00	50.65	<b>S6, Mudrock</b>	407823	16.00	18.00	2.00	S6b; 5% Po SUB BD 1% Py SUB BD; 2% I1N QZ 5 cm	
			407824	18.00	20.10	2.10	S6b; 5% Po SUB BD 1% Py SUB BD; 2% I1N QZ 5 cm	
<b>Comments:</b>			407825	20.10	21.10	1.00	I1N; 4% Po CC VN; 100% I1N QZ 90 cm	
			407826	21.10	23.00	1.90	S6b; 3% Po SJ BD 1% Py SJ BD	
			407827	23.00	25.00	2.00	S6b; 3% Po SJ BD 1% Py SJ BD; FLD 5	
			407828	25.00	27.00	2.00	S6b; 3% Po SJ BD 1% Py SJ BD; FLD 5	
			407830	27.00	29.00	2.00	S6b; 3% Po SJ BD 1% Py SJ BD; FLD 5	
			407831	29.00	31.00	2.00	S6b; 3% Po SJ BD 1% Py SJ BD	
			407832	31.00	33.00	2.00	S6b; 3% Po SJ BD 1% Py SJ BD	
			407833	33.00	35.00	2.00	S6b; 3% Po SJ BD 1% Py SJ BD	
			407834	35.00	37.00	2.00	S6b; 3% Po SJ BD 1% Py SJ BD	
			407835	37.00	38.00	1.00	S6b; 3% Po SJ BD 1% Py SJ BD	
			407837	38.00	39.20	1.20	S6b; 3% Po SJ BD 1% Py SJ BD	
			407838	39.20	40.20	1.00	I1N; 2% Po CC VN; 100% I1N QZ 85 cm	
			407839	40.20	42.00	1.80	S6b; 3% Po LA BD; 1% I1N QZ	
			407840	42.00	44.00	2.00	S6b; 3% Po LA BD; 1% I1N QZ	
			407841	44.00	46.00	2.00	S6b; 3% Po LA BD; 1% I1N QZ	
			407842	46.00	48.00	2.00	S6b; 3% Po LA BD; 1% I1N QZ	
			407843	48.00	50.00	2.00	S6b; 1% I1N QZ	
			407844	50.00	50.65	0.65	S6b; 1% I1N QZ	

From	To	Lithology	Sample	From	To	Length	Comments
50.65	80.20	<b>S9, Iron formation</b>	407845	50.65	52.00	1.35	S9D; Ser-3; 2% Po CC VN; 10% I1N QZ AK 2 cm
			407846	52.00	53.00	1.00	S9D; Ser-3; 2% Po CC VN; 10% I1N QZ AK 2 cm
<b>Comments:</b>			407847	53.00	54.00	1.00	S9D; Ser-3; 2% Po CC VN; 10% I1N QZ AK 2 cm
			407848	54.00	55.00	1.00	S9D; Ser-3; 2% Po CC VN; 10% I1N QZ AK 2 cm
			407850	55.00	56.00	1.00	S9D; Ser-3; 2% Po CC VN; 10% I1N QZ AK 2 cm
			442251	56.00	57.00	1.00	S9D; Ser-3; 2% Po CC VN; 10% I1N QZ AK 2 cm
			442252	57.00	58.00	1.00	S9D; Ser-3; 2% Po CC VN; 10% I1N QZ AK 2 cm
			442253	58.00	59.10	1.10	S9D; Ser-3; 2% Po CC VN; 10% I1N QZ AK 2 cm
			442254	59.10	60.00	0.90	S9C; Sil-2; 3% I1N QZ AK
			442255	60.00	61.00	1.00	S9C; Sil-2; 3% I1N QZ AK
			442257	61.00	62.00	1.00	S9C; Sil-2; 3% I1N QZ AK
			442258	62.00	63.00	1.00	S9C; Sil-2; 3% I1N QZ AK
			442259	63.00	64.00	1.00	S9C; Sil-2; 3% I1N QZ AK
			442260	64.00	65.00	1.00	S9C; Sil-2; 3% I1N QZ AK
			442261	65.00	66.00	1.00	S9C; Sil-2; 3% I1N QZ AK
			442262	66.00	67.00	1.00	S9C; Sil-2; 3% I1N QZ AK
			442263	67.00	68.00	1.00	S9C; Sil-2; 3% I1N QZ AK
			442264	68.00	69.00	1.00	S9C; Sil-2; 3% I1N QZ AK
			442265	69.00	70.00	1.00	S9C; Sil-2; 3% I1N QZ AK
			442266	70.00	71.00	1.00	S9C; Sil-2; 3% I1N QZ AK
			442267	71.00	72.00	1.00	S9C; Chl-1 Sil-3; 5% Po CC VN 0.5% Po DI BD; 9% I1N QZ AB 5 cm
			442268	72.00	73.00	1.00	S9C; Chl-1 Sil-3; 5% Po CC VN 0.5% Po DI BD; 9% I1N QZ AB 5 cm
			442270	73.00	74.00	1.00	S9C; Chl-1 Sil-3; 5% Po CC VN 0.5% Po DI BD; 9% I1N QZ AB 5 cm
			442271	74.00	75.00	1.00	S9C; 0.1% Vg DI VN 5% Po CC VN 0.5% Po DI BD; 9% I1N QZ AB 5 cm
			442272	75.00	76.00	1.00	S9C; Chl-5 Chl-5; 5% Po CC VN 0.5% Po DI BD; 9% I1N QZ AB 5 cm
			442273	76.00	77.00	1.00	S9C; Chl-5 Chl-5; 0.2% Py LA BD; 9% I1N QZ AB 5 cm
			442274	77.00	78.00	1.00	S9C; 0.2% Py LA BD; 9% I1N QZ AB 5 cm
		442275	78.00	79.00	1.00	S9C; 0.2% Py LA BD; 9% I1N QZ AB 5 cm	
		442277	79.00	80.20	1.20	S9C; 0.2% Py LA BD; 9% I1N QZ AB 5 cm	
80.20	89.60	<b>S6g, Grey Shale</b>	442278	80.20	82.00	1.80	S6g
			442279	82.00	84.00	2.00	S6g
<b>Comments:</b>			442280	84.00	86.00	2.00	S6g
			442281	86.00	88.00	2.00	S6g
			442282	88.00	89.60	1.60	S6g; 60% I1N QZ 6 cm
89.60	93.50	<b>I3A, Gabbro</b>	442283	89.60	91.00	1.40	I3A Chl-Ank; Ank-5 CC-5; 22% I1N CC 1 cm
			442284	91.00	93.00	2.00	I3A Chl-Ank; Ank-5 CC-5; 22% I1N CC 1 cm
<b>Comments:</b>			442285	93.00	94.00	1.00	

From	To	Lithology	Sample	From	To	Length	Comments
93.50	95.70	S6g, Grey Shale	442286	94.00	95.70	1.70	S6g; CC-4; 0.2% Py LA BD; 6% I1N QZ CC 0.5 cm
<b>Comments:</b>							
95.70	97.85	I3A, Gabbro	442287	95.70	97.85	2.15	I3A Chl-Ank; Ank-4 CC-3NO MIN ; 3% I1N CC 0.5 cm
<b>Comments:</b>							
97.85	119.25	S6, Mudrock	442288	97.85	99.00	1.15	S6b; NO ALT; 1% Po LA BD; FLD 3
<b>Comments:</b>							
			442290	99.00	101.00	2.00	S6b; NO ALT; 1% Po LA BD; FLD 3
			442291	101.00	103.00	2.00	S6b; NO ALT; 1% Po IG VN 1% Po LA BD 0.5% Py SUB BD; 5% I1N QZ 0.5 cm; FLD 3
			442292	103.00	105.00	2.00	S6b; NO ALT; 1% Po IG VN 1% Po LA BD 0.5% Py SUB BD; 5% I1N QZ 0.5 cm; FLD 3
			442293	105.00	107.00	2.00	S6b; NO ALT; FLD 3
			442294	107.00	109.00	2.00	S6b; NO ALT; 3% Po LA BD 2% Py IG BD; FLD 3
			442295	109.00	111.00	2.00	S6b; NO ALT; 3% Po LA BD 2% Py IG BD; FLD 3
			442297	111.00	113.00	2.00	S6b; NO ALT; 3% Po LA BD 2% Py IG BD; 3% I1N QZ GP 5 cm
			442298	113.00	115.00	2.00	S6b; NO ALT; 3% Po LA BD 2% Py IG BD; BD 4
			442299	115.00	117.00	2.00	S6b; NO ALT; 3% Po LA BD 2% Py IG BD; BD 4
			442300	117.00	118.50	1.50	S6b; Sil-2; 3% Po LA BD 2% Py IG BD; BD 4
			456401	118.50	119.25	0.75	S6b; Sil-2; 3% Po LA BD 2% Py IG BD; BD 4
119.25	129.20	S9, Iron formation	456402	119.25	120.00	0.75	S9C Sid; Sil-1 Chl-2 Sil-3 Ank-3; 5% Po IG VN; 15% I1N QZ AK 4 cm
<b>Comments:</b>							
			456403	120.00	121.00	1.00	S9C Sid; Sil-1 Chl-2 Sil-3 Ank-3; 5% Po IG VN; 15% I1N QZ AK 4 cm
			456404	121.00	122.00	1.00	S9C Sid; Sil-1 Chl-2 Sil-3 Ank-3; 5% Po IG VN; 15% I1N QZ AK 4 cm
			456405	122.00	123.00	1.00	S9C Sid; Sil-1 Chl-2 Sil-3 Ank-3; 5% Po IG VN; 15% I1N QZ AK 4 cm
			456406	123.00	124.00	1.00	S9C Sid; Sil-1 Chl-2 Sil-3 Ank-3; 5% Po IG VN; 15% I1N QZ AK 4 cm
			456407	124.00	125.00	1.00	S9C Sid; Sil-1 Chl-2 Sil-3 Ank-3; 5% Po IG VN; 15% I1N QZ AK 4 cm
			456408	125.00	126.00	1.00	S9C Sid; Sil-1 Chl-2 Sil-3 Ank-3; 5% Po IG VN; 15% I1N QZ AK 4 cm
			456410	126.00	127.00	1.00	S9C Sid; Sil-1 Chl-2 Sil-3 Ank-3; 5% Po IG VN; 15% I1N QZ AK 4 cm
			456411	127.00	128.00	1.00	S9C Sid; Ser-2 Sil-1 Ank-2; 5% Po IG VN; 15% I1N QZ AK 4 cm
			456412	128.00	129.20	1.20	S9C Sid; Ser-2 Sil-1 Ank-2; 5% Po IG VN; 15% I1N QZ AK 4 cm
129.20	136.00	S6g, Grey Shale	456413	129.20	131.00	1.80	S6g; Sil-1 Ank-1; 0.5% Po DI BD; FO 3
<b>Comments:</b>							
			456414	131.00	133.00	2.00	S6g; Sil-1 Ank-1; 0.5% Po DI BD; FO 3
			456415	133.00	135.00	2.00	S6g; Sil-1 Ank-1; 0.5% Po DI BD; FO 3
			456417	135.00	136.00	1.00	S6g; Sil-1 Ank-1; 0.5% Po DI BD; FO 3
136.00	139.60	I3A, Gabbro	456418	136.00	138.00	2.00	I3A GH; Ank-3NO MIN
<b>Comments:</b>							
			456419	138.00	139.60	1.60	I3A GH; Ank-3NO MIN

From	To	Lithology	Sample	From	To	Length	Comments	
139.60	154.00	S6g, Grey Shale	456420	139.60	141.00	1.40	S6g GP; Sil-3 Ank-2; 0.5% Po DI BD; 5% I1N QZ AK 5 cm	
			456421	141.00	143.00	2.00	S6g GP; Sil-3 Ank-2; 0.5% Po DI BD; 5% I1N QZ AK 5 cm	
			<b>Comments:</b>	456422	143.00	144.30	1.30	S6g GP; Sil-3 Ank-2; 0.5% Po DI BD; 5% I1N QZ AK 5 cm
				456423	144.30	146.00	1.70	S6g; Ank-2NO MIN
				456424	146.00	148.00	2.00	
				456425	148.00	150.00	2.00	S6g GP; Sil-3 Ank-2; 1% Po IG VN; 7% I1N QZ AK 8 cm
				456426	150.00	152.00	2.00	S6g GP; Sil-3 Ank-2; 1% Po IG VN; 7% I1N QZ AK 8 cm
				456427	152.00	154.00	2.00	S6g GP; Sil-3 Ank-2; 1% Po IG VN; 7% I1N QZ AK 8 cm
154.00	170.90	S9, Iron formation	456428	154.00	155.00	1.00	S9D; Chl-4 Ank-4 Sil-4 Ser-2; 5% Po IG VN; 30% I1N QZ CL 10 cm	
				456430	155.00	156.00	1.00	S9D; Chl-4 Ank-4 Sil-4 Ser-2; 5% Po IG VN; 30% I1N QZ CL 10 cm
			<b>Comments:</b>	456431	156.00	157.00	1.00	S9D; Chl-4 Ank-4 Sil-4 Ser-2; 5% Po IG VN; 30% I1N QZ CL 10 cm
				456432	157.00	158.00	1.00	S9E; Ank-3 Sil-3; 7% Po IG VN 2% Py SUB VN; 30% I1N QZ CL 10 cm
				456433	158.00	159.00	1.00	S9E; Ank-3 Sil-3; 7% Po IG VN 2% Py SUB VN; 30% I1N QZ CL 10 cm
				456434	159.00	160.00	1.00	S9E; Ank-3 Sil-3; 0.5% As EUH VN 1% Po IG VN
				456435	160.00	161.00	1.00	S10C; BL-2 Ser-3 Ank-3; 5% Po IG VN 2% Po DI PER 0.1% As DI PER
				456437	161.00	162.00	1.00	S10C; Ank-2 Sil-1 Ser-1; 5% Po IG VN 2% Po DI PER 0.1% As DI PER
				456438	162.00	163.00	1.00	S10C; Ank-2 Sil-1 Ser-1; 5% Po IG VN 2% Po DI PER 0.1% As DI PER
				456439	163.00	164.00	1.00	; 5% Po IG VN 2% Po DI PER 0.1% As DI PER; 25% I1N QZ AK 10 cm
				456440	164.00	165.00	1.00	S9C; Ank-2 Carb-1 Sil-2; 5% Po IG VN 2% Po DI PER 0.1% As DI PER; 25% I1N QZ AK 10 cm
				456441	165.00	166.00	1.00	S9C; Ank-2 Carb-1 Sil-2; 5% Po IG VN 2% Po DI PER 0.1% As DI PER; 25% I1N QZ AK 10 cm
				456442	166.00	167.00	1.00	S9C; Ank-2 Carb-1 Sil-2; 5% Po IG VN 2% Po DI PER 0.1% As DI PER; 25% I1N QZ AK 10 cm
				456443	167.00	168.00	1.00	S9C; Ank-2 Carb-1 Sil-2; 5% Po IG VN 2% Po DI PER 0.1% As DI PER; 25% I1N QZ AK 10 cm
				456444	168.00	169.00	1.00	S9C; Ank-2 Carb-1 Sil-2; 5% Po IG VN 2% Po DI PER 0.1% As DI PER; 25% I1N QZ AK 10 cm
				456445	169.00	170.00	1.00	S9C; Ank-2 Carb-1 Sil-2; 5% Po IG VN 2% Po DI PER 0.1% As DI PER; 25% I1N QZ AK 10 cm
				456446	170.00	170.90	0.90	S9C; Ank-2 Carb-1 Sil-2; 5% Po IG VN 2% Po DI PER 0.1% As DI PER; 25% I1N QZ AK 10 cm
170.90	174.00		S6, Mudrock	456447	170.90	172.00	1.10	S6b; Sil-2; 12% Po IG BD 3% Py SUB VN; 10% I1N QZ 10 cm
				456448	172.00	174.00	2.00	S6b; Sil-2; 12% Po IG BD 3% Py SUB VN; 10% I1N QZ 10 cm
		<b>Comments:</b>						
174.00	175.70	S10, Chert	456450	174.00	175.00	1.00	S10D; Chl-2 Ank-3; 10% Po DI BD; 25% I1N QZ CL 5 cm	
				456451	175.00	175.70	0.70	S10D; Chl-2 Ank-3; 10% Po DI BD; 25% I1N QZ CL 5 cm
		<b>Comments:</b>						

From	To	Lithology	Sample	From	To	Length	Comments
175.70	181.20	S6, Mudrock	456452	175.70	177.00	1.30	S6 GP; Carb-2 Sil-1; FLD 4
			456453	177.00	179.00	2.00	S6 GP; Carb-2 Sil-1; 12% Po IG BD; FLD 4
			456454	179.00	180.00	1.00	S6 GP; Carb-2 Sil-1; 12% Po IG BD; FLD 4
			456455	180.00	181.20	1.20	S6 GP; Carb-2 Sil-1; 12% Po IG BD; FLD 4
181.20	184.00	S10, Chert	456457	181.20	182.00	0.80	S10D; Ank-3; 8% Po DI BD; 10% I1N QZ 5 cm
			456458	182.00	183.00	1.00	S10D; Ank-3; 8% Po DI BD; 10% I1N QZ 5 cm
			456459	183.00	184.00	1.00	S10D; Ank-3; 8% Po DI BD; 10% I1N QZ 5 cm
184.00	185.90	S6, Mudrock	456460	184.00	185.90	1.90	S6 GP; NO ALT; 5% Po IG BD 5% Py CC VN
185.90	187.90	S10, Chert	456461	185.90	187.00	1.10	S10D; Sil-1 Ank-3 Sil-3 Ser-2; 8% Po DI PER 2% Po VN ; 40% I1N QZ AK 3 cm
			456462	187.00	187.90	0.90	S10D; Sil-1 Ank-3 Sil-3 Ser-2; 8% Po DI PER 2% Po VN ; 40% I1N QZ AK 3 cm
187.90	194.30	S6, Mudrock	456463	187.90	189.00	1.10	S6 GP; NO ALT; 10% Po LA BD 2% Py CC VN
			456464	189.00	191.00	2.00	S6 GP; NO ALT; 10% Po LA BD 2% Py CC VN
			456465	191.00	193.00	2.00	S6 GP; NO ALT; 10% Po LA BD 2% Py CC VN
			456466	193.00	194.30	1.30	S6 GP; NO ALT; 10% Po LA BD 2% Py CC VN
194.30	198.90	S10, Chert	456467	194.30	195.00	0.70	S10D; Sil-1 Ank-3 Ank-1 Sil-3; 3% Po DI FRM; 5% I1N QZ AK 1 cm
			456468	195.00	196.00	1.00	S10D; Sil-1 Ank-3 Ank-1 Sil-3; 3% Po DI FRM; 5% I1N QZ AK 1 cm
			456470	196.00	197.00	1.00	S10D; Sil-1 Ank-3 Ank-1 Sil-3; 3% Po DI FRM; 5% I1N QZ AK 1 cm
			456471	197.00	198.00	1.00	S10D; Sil-1 Ank-3 Ank-1 Sil-3; 3% Po DI FRM; 5% I1N QZ AK 1 cm
			456472	198.00	198.90	0.90	S10D; Sil-1 Ank-3 Ank-1 Sil-3; 3% Po DI FRM; 5% I1N QZ AK 1 cm
198.90	220.00	S6, Mudrock	456473	198.90	200.00	1.10	S6 GP; NO ALT; 8% Po LA BD 5% Py CC VN
			456474	200.00	202.00	2.00	S6 GP; NO ALT; 8% Po LA BD 5% Py CC VN
			456475	202.00	204.00	2.00	S6 GP; NO ALT; 8% Po LA BD 5% Py CC VN
			456477	204.00	206.00	2.00	S6 GP; NO ALT; 8% Po LA BD 5% Py CC VN
			456478	206.00	208.00	2.00	S6 GP; NO ALT; 8% Po LA BD 5% Py CC VN
			456479	208.00	210.00	2.00	S6 GP; NO ALT; 8% Po LA BD 5% Py CC VN
			456480	210.00	212.00	2.00	S6 GP; NO ALT; 8% Po LA BD 5% Py CC VN
			456481	212.00	214.00	2.00	S6 GP; NO ALT; 8% Po LA BD 5% Py CC VN
			456482	214.00	216.00	2.00	S6 GP; NO ALT; 8% Po LA BD 5% Py CC VN
			456483	216.00	218.00	2.00	S6 GP; NO ALT; 8% Po LA BD 5% Py CC VN
456484	218.00	220.00	2.00	S6 GP; NO ALT; 8% Po LA BD 5% Py CC VN			

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
16.00	38.80	-68.60	FM	Test Non-OK	
19.00	349.00	-68.60	FM	Test Non-OK	
22.00	230.90	-68.50	FM	Test Non-OK	
25.00	221.80	-68.60	FM	Test OK-Accept	
28.00	221.60	-68.50	FM	Test OK-Accept	
31.00	221.60	-68.50	FM	Test OK-Accept	
34.00	221.10	-68.50	FM	Test OK-Reject	
37.00	221.50	-68.60	FM	Test OK-Accept	
40.00	221.80	-68.50	FM	Test OK-Accept	
43.00	222.20	-68.60	FM	Test OK-Accept	
46.00	221.70	-68.60	FM	Test OK-Accept	
49.00	223.10	-68.50	FM	Test OK-Reject	
52.00	222.10	-68.40	FM	Test OK-Accept	
55.00	221.40	-68.60	FM	Test Non-OK	
58.00	222.90	-68.40	FM	Test OK-Reject	
61.00	221.90	-68.30	FM	Test OK-Accept	
64.00	221.80	-68.40	FM	Test OK-Accept	
67.00	221.50	-68.50	FM	Test OK-Reject	
70.00	222.40	-68.40	FM	Test OK-Accept	
73.00	222.50	-68.30	FM	Test OK-Accept	
76.00	222.00	-68.30	FM	Test OK-Accept	
79.00	220.20	-68.60	FM	Test OK-Reject	
82.00	222.30	-68.30	FM	Test OK-Accept	
85.00	221.90	-68.50	FM	Test OK-Accept	
88.00	222.20	-68.40	FM	Test OK-Accept	
91.00	223.10	-68.30	FM	Test OK-Reject	
94.00	221.50	-68.50	FM	Test OK-Reject	
97.00	221.60	-68.30	FM	Test OK-Reject	
100.00	221.50	-68.30	FM	Test OK-Reject	
103.00	221.70	-68.30	FM	Test OK-Reject	
106.00	221.20	-68.20	FM	Test OK-Reject	
109.00	221.50	-68.20	FM	Test OK-Reject	
112.00	223.90	-68.00	FM	Test OK-Reject	
115.00	221.60	-68.00	FM	Test OK-Reject	
118.00	221.20	-68.00	FM	Test OK-Reject	
121.00	219.40	-68.10	FM	Test OK-Reject	
124.00	222.80	-68.10	FM	Test OK-Accept	



Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
127.00	223.80	-67.90	FM	Test OK-Reject	
130.00	224.00	-67.90	FM	Test OK-Reject	
133.00	222.40	-68.00	FM	Test OK-Accept	
136.00	223.40	-67.80	FM	Test OK-Reject	
139.00	223.50	-67.90	FM	Test OK-Reject	
142.00	223.10	-68.00	FM	Test OK-Accept	
145.00	224.20	-67.70	FM	Test OK-Reject	
148.00	224.10	-67.80	FM	Test OK-Reject	
151.00	224.00	-67.80	FM	Test OK-Reject	
154.00	222.40	-68.00	FM	Test OK-Reject	
157.00	223.50	-67.90	FM	Test OK-Reject	
160.00	222.80	-68.00	FM	Test OK-Accept	
163.00	223.40	-67.80	FM	Test OK-Reject	
166.00	223.70	-68.00	FM	Test OK-Reject	
169.00	222.00	-68.20	FM	Test OK-Reject	
172.00	222.90	-68.00	FM	Test OK-Accept	
175.00	223.30	-68.10	FM	Test OK-Accept	
178.00	221.00	-68.10	FM	Test OK-Reject	
181.00	222.90	-68.00	FM	Test OK-Accept	
184.00	224.50	-68.00	FM	Test OK-Reject	
187.00	223.70	-68.00	FM	Test OK-Reject	
190.00	222.00	-68.10	FM	Test OK-Reject	
193.00	222.40	-68.20	FM	Test OK-Reject	
196.00	221.80	-68.20	FM	Test OK-Reject	
199.00	223.30	-67.90	FM	Test OK-Accept	
202.00	224.10	-67.90	FM	Test OK-Reject	
205.00	223.30	-67.90	FM	Test OK-Accept	
208.00	223.00	-67.90	FM	Test OK-Accept	
211.00	223.80	-67.90	FM	Test Non-OK	
214.00	223.80	-67.80	FM	Test OK-Reject	
217.00	222.00	-67.80	FM	Test OK-Reject	
220.00	222.90	-67.90	FM	Test OK-Accept	

Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
16.00	20.10	S6	APH	LA			S6b			BK		1	Aph				Homogeneous black mudstone well folded
20.10	21.10	S6	MA				I1N			WH	VD	3	CG				Quartz- PO-PY with traces of chlorite
21.10	39.20	S6	APH	LA			S6b			BK		1	Aph				Homogeneous black mudstone
39.20	40.20	S6	MA				I1N			WH	GD	3	CG				Quartz- PO-PY with traces of chlorite
40.20	50.65	S6	APH	LA			S6b			BG		1	Aph				Homogeneous black mudstone well folded
50.65	59.10	S9	HK	RU			S9D	35.00	Oxyde	VL		3	FG				DIF Silicated iron formation with penetrative silice alteration
59.10	80.20	S9	HK	RU			S9C	8.00	Oxyde	GL	VM	2	FG		60.00		SHP Carbonate iron formation (ankerite facies) with local penetrative chlorite alteration.
80.20	89.60	S6g	APH	LA			S6g			GM		1	Aph		65.00		SHP Homogeneous grey mudstone
89.60	93.50	I3A	PI	HJ			I3A Chl-Ank			VL		1	MG				DIF Chlorite-ankerite shistous unit with mm scale ankerite phenocryst
93.50	95.70	S6g	HJ	LA			S6g			GL	VL	2	FG				Sheared gabbro or grey shale?
95.70	97.85	I3A	PI	FO			I3A Chl-Ank			VL		2	MG		70.00		SHP Chlorite-ankerite shistous unit.
97.85	119.25	S6	RU				S6b			BK		2	Aph		72.00		VN Graphitic black shale. Locally well folded. Lower contact with iron formation is silicified, from 117m.
119.25	129.20	S9	HK	BD			S9C Sid	10.00	Carbonate	GM		2	FG		75.00		SHP Unit contains around 10-12% decimetric carbonated chert bands that do not seem to be associated with mineralisation. Chert bands are brecciated by quartz veins.
129.20	136.00	S6g	CS	HJ			S6g			GM		2	FG		85.00		DIF
136.00	139.60	I3A	GH	MA	HJ		I3A GH			VL	GL	3	MG		80.00		SHP Gabbro with millimetric phenocrysts of ankerite.
139.60	144.30	S6g	CS	HJ			S6g GP			GM			Aph				BC Grey shale with 3-5% graphite. Contains around 5% centimetric quartz-ankerite veins with 1-2% pyrrhotite.
144.30	146.50	S6g	CS	PI	HJ		S6g			VM	GL		FG		63.00		DIF
146.50	154.00	S6g	CS	BD	HK		S6g GP			GM	GL		FG		84.00		VN Locally, decimetric intervals with less graphite. Contains 5-7% 5-10cm quartz-ankerite-chlorite veins with 3-5% pyrrhotite.

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
154.00	157.00	S9	BX	HK			S9D			GM	GN		FG			VN	strongly chloritized and ankeritized interval, also with sericite alteration. 25% quartz-ankerite-chlorite veins with 5-7% pyrrhotite.
157.00	160.00	S9	BD	IU			S9E			BK			Aph			VN	graphitic unit, maybe black shale? at times, mineralisation seems to be almost semi-massif, very fine grained. injected with 25-30% decimetric quartz-chlorite-ankerite veins with 3-4% interstitial pyrrhotite.
160.00	163.50	S9	BD	BX			S10C			GL		3	FG			VN	siliceous chert, with stretched centimetric ankeritized fragments. overall stretched and fragmented texture. contains 3-5% mm to cm quartz-ank-chl veins. upper contact seems bleached from 160-161m.
163.50	170.90	S9	BX	HK			S9C	20.00	Carbonate	GL			FG		65.00	SHP	presence of local decimetric interval with brecciated carbonate chert bands.
170.90	174.00	S6	BD				S6b			BK		1	Aph			DIF	black shale with well developed folding, and 10-15% regular pyrrhotite millimetric bands.
174.00	175.70	S10	BD	BX			S10D			GL		2	FG			VN	Brecciated chert band injected with 8-10% centimetric quartz-ankerite veinlets, occasionally quartz-ankerite-chlorite veinlets. Contains 7-8% pyrrhotite stringers/interstitial.
175.70	181.20	S6	RU	HK			S6 GP			BK		1	Aph		78.00	SHP	graphitic black shale with regular millimetric pyrrhotite (8-12%), occasionally containing sub to euhedral pyrite (2-3%)
181.20	184.00	S10	BX				S10D	5.00	Carbonate	GL			FG		48.00	SHP	sulfidic chert with 5% carbonate chert, injected with 8-10% cm quartz-ankerite-pyrrhotite veinlets. Carbonate chert seem stretched and boundinaged.
184.00	185.90	S6	BD				S6 GP			BK		1	Aph		45.00	SHP	
185.90	187.90	S10	HK	IU			S10D	100.00	Carbonate	GM		2	FG		56.00	SHP	sulfidized carbonate chert with 20% cm to dm quartz-ankerite veinlets.
187.90	194.30	S6	BD	HK			S6 GP			BK		1	Aph			DIF	Black shale with 8% pyrrhotite and 5% pyrite, well deformed.
194.30	198.90	S10	HK	IU			S10D			GL		2	FG		42.00	DIF	Sulfidized chert with brecciated cm to mm fragments of ankeritized chert(carbonate chert). Injected with 10-15% quartz ankerite veins.
198.90	220.00	S6	BD				S6 GP			BK		1	Aph			NA	Graphitic black shale with more pyrite than pyrrhotite. 8% pyrite and 5% pyrrhotite.

**Mineralization Data**

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
16.00	20.10		Po	5.00	SUB	BD		Py	1.00	SUB	BD						
20.10	21.10		Po	4.00	CC	VN											
21.10	39.20		Po	3.00	SJ	BD		Py	1.00	SJ	BD						
39.20	40.20		Po	2.00	CC	VN											
40.20	49.65		Po	3.00	LA	BD											
50.65	59.10		Po	2.00	CC	VN											
71.00	74.00		Po	5.00	CC	VN		Po	0.50	DI	BD	very fine <1mm disseminated pyrrhotite along bedding					
74.00	75.00		Vg	0.10	DI	VN	visible gold observed in half core after being cut	Po	5.00	CC	VN		Po	0.50	DI	BD	very fine pyrrhotite disseminated along bedding
75.00	76.00		Po	5.00	CC	VN		Po	0.50	DI	BD						
76.00	80.20		Py	0.20	LA	BD											
93.50	95.70		Py	0.20	LA	BD											
95.70	97.85		NO MIN														
97.85	101.00		Po	1.00	LA	BD											
101.00	106.00		Po	1.00	IG	VN		Po	1.00	LA	BD	mm subhedral pyrite grains associated with pyrrhotite in bedded controlled lamines.	Py	0.50	SUB	BD	
106.00	119.25		Po	3.00	LA	BD		Py	2.00	IG	BD	subhedral and interstitial pyrite, associated with lamina of pyrrhotite. bedding controlled.					
119.25	129.20		Po	5.00	IG	VN						Interstitial pyrrhotite in mm to 0.5cm clusters within quartz-ankerite-chlorite veins.					
129.20	136.00		Po	0.50	DI	BD						Very fine <1mm pyrrhotite disseminated, foliated, seems to follow bedding					
136.00	139.60		NO MIN														
139.60	144.30		Po	0.50	DI	BD						Very fine <1mm pyrrhotite disseminated, foliated, seems to follow bedding. Presence of quartz vein, millimetric, with millimetric interstitial cluster of pyrrhotite at upper contact with I3A.					
144.30	146.30		NO MIN														
146.30	154.00		Po	1.00	IG	VN						Millimetric-centimetric clusters of interstitial pyrrhotite associated with quartz-ankerite vein/veinlets.					

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
154.00	157.00		Po	5.00	IG	VN						Millimetric-centimetric clusters of interstitial pyrrhotite associated with quartz-ankerite vein/veinlets.					
157.00	159.50		Po	7.00	IG	VN		Py	2.00	SUB	VN						
159.50	160.00		As	0.50	EUH	VN		Po	1.00	IG	VN	Sub-mm grains of arsenopyrite associated with chlorite alteration in vein wallrock. Also presence of pyrrhotite interstitial in vein wallrock.					
160.00	170.90		Po	5.00	IG	VN		Po	2.00	DI	PER	Very fine <1mm disseminated pyrrhotite throughout host rock; Millimetric-centimetric clusters of interstitial pyrrhotite associated with quartz-ankerite vein/veinlets.	As	0.10	DI	PER	Very fine <1mm disseminated grains of arsenopyrite, seems to be in cherty unit, associated to SIL penetrative?
170.90	174.00		Po	12.00	IG	BD		Py	3.00	SUB	VN	sub to euhedral pyrite grains, millimetric, within the pyrrhotite stringers/veinlets; 10-15% interstitial pyrrhotite in millimetric bands parallel to bedding					
174.00	175.90		Po	10.00	DI	BD						8-12% pyrrhotite, in disseminated fine <1mm and seems to be concentrated in the matrix around the carbonate chert fragments					
175.90	181.20		Po	12.00	IG	BD						10-15% interstitial pyrrhotite in millimetric bands parallel to bedding					
181.20	184.00		Po	8.00	DI	BD						8-12% pyrrhotite, in disseminated fine <1mm and seems to be concentrated in the matrix around the carbonate chert fragments					
184.00	185.90		Po	5.00	IG	BD		Py	5.00	CC	VN	pyrite is associated to pyrrhotite veinlets/stringers					
185.90	187.90		Po	8.00	DI	PER		Po	2.00	VN		also 2% pyrrhotite associated to quartz-ankerite veining, as millimetric interstitial blebs. penetrative pyrrhotite, disseminated throughout cherty fragments.					
187.90	194.30		Po	10.00	LA	BD		Py	2.00	CC	VN	pyrite is associated to pyrrhotite veinlets/stringers, pyrrhotite is mainly present as millimetric bands or veinlets, subconcordant to bedding / main schistosity.					
194.30	198.90		Po	3.00	DI	FRM						penetrative pyrrhotite, in millimetric blebs associated with the margins of the cherty carbonated fragments.					
198.90	220.00		Po	8.00	LA	BD		Py	5.00	CC	VN						pyrite is associated to pyrrhotite veinlets/stringers

Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
50.65	59.10	Ser	3	PEN							The interval appera to be bleached.
59.10	71.00	Sil	2	PEN							
71.00	74.30	Chl	1	PEN	Sil	3	PEN				
74.30	77.00	Chl	5	PEN	Chl	5	PEN				
77.00	89.60										
89.60	93.50	Ank	5	DI	CC	5	VN				
93.50	95.70	CC	4	VN							
95.70	97.85	Ank	4	DI	CC	3	VN				
97.85	117.00	NO ALT									Few quartz veins, millimetric to centimetric, 3-5%.
117.00	119.25	Sil	2	PEN							pervasive silicification at contact with underlying iron formation.
119.25	127.00	Sil	1	PEN	Chl	2	VN	Sil	3	VN	10-15% centimetric to decimetric quartz-ankerite-chlorite veins.
127.00	129.20	Ser	2	RU	Sil	1	RU	Ank	2	RU	Banded sericite-carbonate (ankerite)-silica alteration at lower contact with underlying grey shale
129.20	136.00	Sil	1	VN	Ank	1	DI				Disseminated millimetric ankerite crystals, 1-2% millimetric quartz-carbonate veinlets
136.00	139.60	Ank	3	DI							Disseminated millimetric ankerite phenocrystals, seems to be distributed in clusters following bedding
139.60	144.30	Sil	3	VN	Ank	2	VN				<1mm to millimetric quartz-carbonate veinlets. millimetric cluster of ankerite in quartz-ankerite centimetric veinlets.
144.30	146.30	Ank	2	DI							Disseminated millimetric ankerite phenocrystals, seems to be distributed in clusters following bedding
146.30	154.00	Sil	3	FF	Ank	2	VN				
154.00	157.00	Chl	4	VN	Ank	4	VN	Sil	4	VN	Altered interval with moderate to strong chloritisation, ankeritisation and sericitisation associated to decimetric quartz-ankerite-chlorite veining. Alteration is in the quartz veins as well as in the wallrock.
157.00	160.00	Ank	3	VN	Sil	3	VN				Altered interval with graphitic decimetric intervals (possibly black shale/sulfidic iron formation?). Moderate to strong chlorite, ankerite and silica alteration
160.00	161.00	BL	2	PEN	Ser	3	PEN	Ank	3	VN	Altered interval of sulfidic chert, seems bleached, at contact of chert with overlying sulfidic iron formation/black shale
161.00	163.50	Ank	2	PEN	Sil	1	PEN	Ser	1	PEN	Cherty interval with weak penetrative silification, fragments with very fine ankerite and weak pervasive sericitisation.
163.50	170.90	Ank	2	PEN	Carb	1	PEN	Sil	2	VN	weak penetrative carbonatation, quartz-ankerite veins, millimetri to centimetric associated with interstitial pyrrhotite.
170.90	174.00	Sil	2	VN							Injected with 20% decimetric quartz veins
174.00	175.70	Chl	2	VN	Ank	3	PEN				
175.70	181.20	Carb	2	VN	Sil	1	PEN				
181.20	184.00	Ank	3	PEN							very fine <1mm ankerite disseminated penetratively
184.00	185.90	NO ALT									
185.90	187.90	Sil	1	PEN	Ank	3	VN	Sil	3	VN	
187.90	194.30	NO ALT									
194.30	198.90	Sil	1	PEN	Ank	3	VN	Ank	1	PEN	ankerite in quartz-ankerite veins, but also a slight penetrative ankeritisation in carbonate chert fragments
198.90	220.00	NO ALT									

## Vein Data

From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments	
16.00	20.10	2.00	5.00	I1N	UNK	Vein >5cm	QZ	100.00													
20.10	21.10	100.00	90.00	I1N	UNK	Vein >5cm	QZ	100.00								Po	4.00				
39.20	40.20	100.00	85.00	I1N	UNK	Vein >5cm	QZ	100.00								Po	2.00				
40.20	50.65	1.00		I1N	UNK	Veinlet <5cm	QZ	100.00													
50.65	59.10	10.00	2.00	I1N	UNK	Veinlet <5cm	QZ	100.00	AK							Po	2.00			1% of local ankerite veins	
59.10	71.00	3.00		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	5.00											
71.00	80.20	9.00	5.00	I1N	UNK	Vein >5cm	QZ	85.00	AB	8.00	CL	7.00				Po	5.00				
87.00	89.60	60.00	6.00	I1N	UNK	Vein >5cm	QZ	100.00													
89.60	93.50	22.00	1.00	I1N	UNK	Veinlet <5cm	CC	100.00													
93.50	95.70	6.00	0.50	I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00											
95.70	97.85	3.00	0.50	I1N	UNK	Veinlet <5cm	CC	100.00													
101.00	106.00	5.00	0.50	I1N	UNK	Veinlet <5cm	QZ	99.00								Po	1.00				
112.00	113.00	3.00	5.00	I1N	UNK	Vein >5cm	QZ	90.00	GP	10.00											
119.25	129.20	15.00	4.00	I1N	UNK	Veinlet <5cm	QZ	88.00	AK	8.00	CL	5.00				Po	5.00				
139.60	144.30	5.00	5.00	I1N	UNK	Vein >5cm	QZ	95.00	AK	5.00											
146.50	154.00	7.00	8.00	I1N	UNK	Vein >5cm	QZ	82.00	AK	3.00	CL	15.00				Po	1.00				
154.00	159.00	30.00	10.00	I1N	UNK	Vein >5cm	QZ	79.00	CL	8.00	AK	5.00				Po	3.00			also 3% sericite and 5% graphite	
163.00	170.90	25.00	10.00	I1N	UNK	Vein >5cm	QZ	95.00	AK	5.00						Po	5.00				
170.90	174.00	10.00	10.00	I1N	UNK	Vein >5cm	QZ	100.00								Po	2.00				
174.00	175.70	25.00	5.00	I1N	UNK	Veinlet <5cm	QZ	90.00	CL	5.00	AK	5.00				Po	2.00				
181.20	184.00	10.00	5.00	I1N	UNK	Vein >5cm	QZ	100.00								Po	3.00				
185.90	187.90	40.00	3.00	I1N	UNK	Veinlet <5cm	QZ	89.00	AK	8.00	SR	3.00				Po	5.00				
194.30	198.90	5.00	1.00	I1N	UNK	Veinlet <5cm	QZ	94.00	AK	5.00	CL	1.00				Po	1.00				

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
22.00	29.00	FLD	5		Asymetric well folded unit.
41.20	41.25	FLT	3	90.00	Fault with fault gauge
47.00	49.00	FLD	5		Asymetric well folded unit.
97.85	112.00	FLD	3		Well folded black shale
112.00	119.25	BD	4	68.00	S0/S1 in black shale
129.20	136.00	FO	3	35.00	S2in grey shale
175.70	181.20	FLD	4		Well folded black shale



## Oriented Structure Data

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
20.20	S0		50.00										
21.50	VN		20.00										
38.30	S0		80.00										
46.60	S2		45.00	32.00	221.87	-68.47	-64.05	336.50	0.00	66.50			
46.65	S0		60.00	230.00	221.87	-68.47	-22.55	224.69	0.00	314.69			
58.20	S0		60.00	90.00	221.55	-68.48	-36.32	9.12	0.00	99.12			
64.30	S0		55.00	90.00	222.33	-68.30	-40.44	14.50	0.00	104.50			
68.70	S0		60.00	80.00	220.55	-68.55	-39.26	1.64	0.00	91.64			
73.20	VN		30.00	210.00	221.97	-68.47	-42.24	172.07	0.00	262.07			
75.80	S0		50.00	80.00	222.15	-68.42	-47.83	10.80	0.00	100.80			
75.80	S0		50.00	80.00	222.15	-68.42	-47.83	10.80	0.00	100.80			
75.80	VN		20.00	230.00	222.15	-68.42	-57.30	190.96	0.00	280.96			
79.20	S0		72.00	110.00	222.57	-68.37	-22.63	1.57	0.00	91.57			
80.20	CNT		60.00	100.00	222.03	-68.43	-33.14	16.28	0.00	106.28			
86.00	S0		58.00	101.00	221.52	-68.30	-34.38	18.63	0.00	108.63			
88.20	S2		50.00	20.00	221.67	-68.30	-60.76	326.26	0.00	56.26			
89.60	CNT		65.00	40.00	221.45	-68.25	-43.79	334.56	0.00	64.56			
92.15	S0		68.00	50.00	221.35	-68.20	-39.52	338.16	0.00	68.16			
94.10	S0		65.00	120.00	222.30	-68.13	-23.10	21.17	0.00	111.17			
96.80	S0		70.00	110.00	223.13	-68.00	-23.78	5.98	0.00	95.98			
97.85	CNT		70.00										
99.80	AxialPlane		80.00	180.00	221.40	-68.00	-12.00	311.40	0.00	41.40			
100.20	S2		48.00	90.00	221.33	-68.00	-46.45	18.74	0.00	108.74			
100.60	S0		68.00	120.00	221.27	-68.00	-21.59	13.11	0.00	103.11			
106.80	S0		65.00	64.00	223.13	-68.03	-39.54	349.77	0.00	79.77			
119.25	CNT		72.00										
129.20	CNT		75.00										
131.00	S0		74.00										
134.50	S2		35.00										
135.80	S0		73.00										
140.90	S2		44.00										
145.20	S0		65.00										
148.60	AxialPlane		75.00										
149.60	S0		50.00	180.00	222.15	-68.10	-18.10	132.15	0.00	222.15			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
170.90	CNT		65.00	24.00	223.97	-67.90	-46.02	327.79	0.00	57.79			
180.50	AxialPlane		51.00										
183.60	S0		75.00										
184.00	CNT		70.00										
185.90	CNT		45.00	44.00	222.75	-67.88	-62.38	346.42	0.00	76.42			
187.70	S0		56.00	232.00	222.90	-67.90	-26.15	221.98	0.00	311.98			
190.30	S0		65.00	335.00	222.90	-67.90	-45.92	298.50	0.00	28.50			
190.80	AxialPlane		70.00	42.00	222.90	-67.90	-39.19	334.13	0.00	64.13			
190.90	AxialPlane		70.00	42.00	222.90	-67.90	-39.19	334.13	0.00	64.13	116.00	FAXIS	
198.90	CNT		42.00	70.00	222.90	-67.90	-58.38	8.00	0.00	98.00			
199.70	S0		53.00	70.00	222.90	-67.90	-48.51	1.92	0.00	91.92			
211.20	S0		72.00	24.00	222.90	-67.90	-39.20	324.37	0.00	54.37			
214.10	AxialPlane		47.00	4.00	222.90	-67.90	-65.06	315.91	0.00	45.91	92.00	FAXIS	
214.20	AxialPlane		47.00	4.00	222.90	-67.90	-65.06	315.91	0.00	45.91			
214.80	AxialPlane		65.00	14.00	222.90	-67.90	-46.73	320.97	0.00	50.97	84.00	FAXIS	
214.90	AxialPlane		65.00	14.00	222.90	-67.90	-46.73	320.97	0.00	50.97			

**Sample Data - ASSAY**

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
407823	16.00	18.00	2.00	2	VO18159198 - Finalized	21/07/2018	0.133	2.250	180.00	143.00	16.45	659.0	0.714	824.00	89.10	161.50	2 050.00
407824	18.00	20.10	2.10	2	VO18159198 - Finalized	21/07/2018	0.075	1.470	137.50	195.50	16.70	871.0	0.736	879.00	99.70	148.50	3 120.00
407825	20.10	21.10	1.00	2	VO18159198 - Finalized	21/07/2018	0.007	0.210	7.70	177.50	9.60	182.0	0.370	123.00	8.13	81.40	2 360.00
407826	21.10	23.00	1.90	2	VO18159198 - Finalized	21/07/2018	0.025	0.890	24.40	323.00	17.60	563.0	0.155	394.00	43.60	135.00	1 230.00
407827	23.00	25.00	2.00	2	VO18159198 - Finalized	21/07/2018	0.012	1.160	12.50	368.00	21.40	786.0	0.140	142.00	21.50	153.50	734.00
407828	25.00	27.00	2.00	2	VO18159198 - Finalized	21/07/2018	0.040	1.060	81.50	250.00	20.10	601.0	0.457	121.00	19.30	106.00	1 280.00
407830	27.00	29.00	2.00	2	VO18159198 - Finalized	21/07/2018	0.071	1.550	132.50	167.00	20.70	180.0	0.528	130.00	16.50	89.50	1 260.00
407831	29.00	31.00	2.00	2	VO18159198 - Finalized	21/07/2018	0.057	1.410	127.50	197.00	21.10	811.0	0.693	126.00	16.55	107.50	1 360.00
407832	31.00	33.00	2.00	2	VO18159198 - Finalized	21/07/2018	0.047	1.200	144.00	122.50	17.55	749.0	0.341	159.00	18.60	129.00	595.00
407833	33.00	35.00	2.00	2	VO18159198 - Finalized	21/07/2018	0.037	1.050	113.50	163.50	16.40	397.0	0.304	191.00	17.25	164.00	635.00
407834	35.00	37.00	2.00	2	VO18159198 - Finalized	21/07/2018	0.009	0.380	53.00	87.40	7.74	196.0	0.183	196.00	11.55	138.50	935.00
407835	37.00	38.00	1.00	2	VO18159198 - Finalized	21/07/2018	0.016	0.350	47.00	72.40	7.35	73.0	0.186	179.00	11.80	104.50	655.00
407837	38.00	39.20	1.20	2	VO18159198 - Finalized	21/07/2018	0.008	0.450	48.10	132.00	10.25	279.0	0.131	164.00	14.45	136.50	462.00
407838	39.20	40.20	1.00	2	VO18159198 - Finalized	21/07/2018	0.001	0.150	14.70	111.50	8.37	1,520.0	0.143	97.00	5.17	108.50	763.00
407839	40.20	42.00	1.80	2	VO18159198 - Finalized	21/07/2018	0.010	0.310	58.00	52.70	6.57	61.0	0.227	208.00	13.50	122.00	927.00
407840	42.00	44.00	2.00	2	VO18159198 - Finalized	21/07/2018	0.018	0.550	80.20	94.60	10.85	60.0	0.223	224.00	16.00	189.50	807.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
407841	44.00	46.00	2.00	2	VO18158276 - Finalized	20/07/2018	0.025	0.590	83.40	147.50	13.35	72.0	0.258	242.00	15.30	185.00	1 080.00
407842	46.00	48.00	2.00	2	VO18158276 - Finalized	20/07/2018	0.074	0.880	91.70	151.50	16.15	408.0	0.267	203.00	16.90	152.50	669.00
407843	48.00	50.00	2.00	2	VO18158276 - Finalized	20/07/2018	0.040	1.190	57.60	293.00	21.80	178.0	0.203	223.00	23.10	130.00	685.00
407844	50.00	50.65	0.65	2	VO18158276 - Finalized	20/07/2018	0.010	1.090	2.80	429.00	26.10	324.0	0.197	222.00	22.50	162.00	977.00
407845	50.65	52.00	1.35	2	VO18158276 - Finalized	20/07/2018	0.005	0.060	12.70	18.50	24.40	9,120.0	0.003	11.00	0.64	7.20	21.00
407846	52.00	53.00	1.00	2	VO18158276 - Finalized	20/07/2018	0.036	0.020	0.80	5.90	23.00	8,460.0	0.003	8.00	0.29	2.50	19.00
407847	53.00	54.00	1.00	2	VO18158276 - Finalized	20/07/2018	2.200	0.550	2.00	15.10	24.50	8,670.0	0.046	9.00	1.11	7.90	26.00
407848	54.00	55.00	1.00	2	VO18158276 - Finalized	20/07/2018	0.176	0.010	3.70	14.20	27.30	8,710.0	0.003	11.00	0.41	3.30	26.00
407850	55.00	56.00	1.00	2	VO18158276 - Finalized	20/07/2018	0.006	0.010	4.70	2.30	26.70	8,990.0	0.003	7.00	0.40	1.50	15.00
442251	56.00	57.00	1.00	2	VO18158276 - Finalized	20/07/2018	0.038	0.010	1.20	5.40	27.60	9,290.0	0.003	8.00	0.20	2.10	13.00
442252	57.00	58.00	1.00	2	VO18158276 - Finalized	20/07/2018	0.415	0.030	1.10	12.50	28.50	9,450.0	0.015	10.00	0.36	3.20	41.00
442253	58.00	59.10	1.10	2	VO18158276 - Finalized	20/07/2018	0.138	0.010	0.60	3.10	26.60	11,450.0	0.003	8.00	0.30	1.60	18.00
442254	59.10	60.00	0.90	2	VO18158276 - Finalized	20/07/2018	0.003	0.010	2.90	1.50	25.40	14,600.0	0.003	7.00	0.45	1.40	6.00
442255	60.00	61.00	1.00	2	VO18158276 - Finalized	20/07/2018	0.001	0.010	0.80	1.80	28.80	16,400.0	0.003	9.00	0.25	2.00	4.00
442257	61.00	62.00	1.00	2	VO18158276 - Finalized	20/07/2018	0.002	0.005	0.60	1.80	28.90	13,300.0	0.003	17.00	0.17	2.20	5.00
442258	62.00	63.00	1.00	2	VO18158276 - Finalized	20/07/2018	0.001	0.010	1.00	1.70	26.10	8,720.0	0.003	6.00	0.15	1.20	4.00
442259	63.00	64.00	1.00	2	VO18158276 - Finalized	20/07/2018	0.001	0.005	0.10	1.80	27.00	10,400.0	0.003	8.00	0.20	1.40	4.00
442260	64.00	65.00	1.00	2	VO18158276 - Finalized	20/07/2018	0.001	0.005	1.20	1.40	25.50	8,050.0	0.003	7.00	0.41	1.20	3.00
442261	65.00	66.00	1.00	2	VO18158278 - Finalized	19/07/2018	0.001	0.020	13.10	1.40	28.80	7,750.0	0.006	8.00	0.36	1.50	2.00
442262	66.00	67.00	1.00	2	VO18158278 - Finalized	19/07/2018	0.001	0.010	2.80	0.60	27.30	8,170.0	0.003	7.00	0.33	0.80	2.00
442263	67.00	68.00	1.00	2	VO18158278 - Finalized	19/07/2018	0.001	0.010	8.40	0.70	27.10	7,300.0	0.005	9.00	0.37	0.90	3.00
442264	68.00	69.00	1.00	2	VO18158278 - Finalized	19/07/2018	0.001	0.010	1.20	0.80	28.00	7,770.0	0.003	9.00	0.50	0.90	3.00
442265	69.00	70.00	1.00	2	VO18158278 - Finalized	19/07/2018	0.001	0.010	3.10	0.70	24.10	8,880.0	0.003	8.00	0.40	0.90	3.00
442266	70.00	71.00	1.00	2	VO18158278 - Finalized	19/07/2018	0.074	0.020	1.50	1.60	26.70	9,580.0	0.003	9.00	0.23	0.90	5.00
442267	71.00	72.00	1.00	2	VO18158278 - Finalized	19/07/2018	0.315	0.020	45.40	4.20	29.30	4,040.0	0.005	11.00	0.34	0.80	22.00
442268	72.00	73.00	1.00	2	VO18158278 - Finalized	19/07/2018	0.140	0.005	9.10	2.80	27.50	2,250.0	0.005	8.00	0.43	1.10	15.00
442270	73.00	74.00	1.00	2	VO18158278 - Finalized	19/07/2018	0.508	0.005	124.00	4.70	25.40	2,730.0	0.009	12.00	0.39	0.90	18.00
442271	74.00	75.00	1.00	2	VO18158278 - Finalized	19/07/2018	5.350	2.120	15.40	16.80	28.80	3,110.0	0.048	16.00	0.38	1.20	25.00
442272	75.00	76.00	1.00	2	VO18158278 - Finalized	19/07/2018	5.140	0.100	9.00	34.20	26.50	4,170.0	0.017	13.00	0.29	1.50	25.00
442273	76.00	77.00	1.00	2	VO18158278 - Finalized	19/07/2018	0.213	0.005	5.70	1.90	25.90	4,630.0	0.003	9.00	0.34	0.80	15.00
442274	77.00	78.00	1.00	2	VO18158278 - Finalized	19/07/2018	0.894	0.005	3.30	2.00	26.50	7,650.0	0.003	8.00	0.40	1.20	6.00
442275	78.00	79.00	1.00	2	VO18158278 - Finalized	19/07/2018	0.147	0.005	4.70	2.00	27.40	7,400.0	0.003	8.00	0.38	0.90	10.00
442277	79.00	80.20	1.20	2	VO18158278 - Finalized	19/07/2018	0.053	0.005	1.10	2.00	25.30	10,750.0	0.003	5.00	0.42	1.00	9.00
442278	80.20	82.00	1.80	2	VO18158278 - Finalized	19/07/2018	0.005	0.170	1.40	22.60	14.55	989.0	0.003	176.00	1.00	44.70	105.00
442279	82.00	84.00	2.00	2	VO18158278 - Finalized	19/07/2018	0.007	0.330	5.80	41.40	10.35	488.0	0.014	247.00	1.53	59.50	140.00
442280	84.00	86.00	2.00	2	VO18158278 - Finalized	19/07/2018	0.007	0.150	0.60	54.80	8.33	1,410.0	0.007	132.00	2.14	37.10	174.00
442281	86.00	88.00	2.00	2	VO18158271 - Finalized	01/08/2018	0.002	0.330	10.20	98.60	9.15	497.0	0.020	231.00	4.76	56.30	284.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
442282	88.00	89.60	1.60	2	VO18158271 - Finalized	01/08/2018	0.001	0.250	7.60	62.50	7.58	460.0	0.018	264.00	4.65	51.00	235.00
442283	89.60	91.00	1.40	2	VO18158271 - Finalized	01/08/2018	0.001	0.180	64.40	107.50	9.38	1,040.0	0.006	294.00	0.28	98.00	125.00
442284	91.00	93.00	2.00	2	VO18158271 - Finalized	01/08/2018	0.001	0.160	62.60	108.50	9.33	862.0	0.003	303.00	0.28	101.00	104.00
442285	93.00	94.00	1.00	2	VO18158271 - Finalized	01/08/2018	0.001	0.050	24.60	74.70	8.68	818.0	0.014	284.00	2.37	60.10	217.00
442286	94.00	95.70	1.70	2	VO18158271 - Finalized	01/08/2018	0.001	0.040	47.70	45.50	9.20	1,480.0	0.019	277.00	0.45	71.30	222.00
442287	95.70	97.85	2.15	2	VO18158271 - Finalized	01/08/2018	0.001	0.110	36.10	109.50	9.64	925.0	0.011	286.00	1.93	71.80	219.00
442288	97.85	99.00	1.15	2	VO18158271 - Finalized	01/08/2018	0.001	0.290	80.40	63.90	8.60	356.0	0.021	249.00	5.49	55.60	170.00
442290	99.00	101.00	2.00	2	VO18158271 - Finalized	01/08/2018	0.001	0.350	6.40	93.10	8.87	739.0	0.035	127.00	3.56	57.00	307.00
442291	101.00	103.00	2.00	2	VO18158271 - Finalized	01/08/2018	0.017	0.710	30.60	155.00	12.15	312.0	0.095	169.00	12.25	96.40	533.00
442292	103.00	105.00	2.00	2	VO18158271 - Finalized	01/08/2018	0.094	1.600	143.50	156.50	19.45	320.0	0.366	186.00	20.20	146.00	800.00
442293	105.00	107.00	2.00	2	VO18158271 - Finalized	01/08/2018	0.082	1.430	154.50	133.50	17.75	403.0	0.427	257.00	24.90	153.00	921.00
442294	107.00	109.00	2.00	2	VO18158271 - Finalized	01/08/2018	0.043	1.490	148.00	327.00	17.50	2,810.0	0.231	709.00	89.80	249.00	1 310.00
442295	109.00	111.00	2.00	2	VO18158271 - Finalized	01/08/2018	0.057	1.880	45.20	333.00	17.85	3,100.0	0.255	1 040.00	142.50	277.00	1 940.00
442297	111.00	113.00	2.00	2	VO18158271 - Finalized	01/08/2018	0.033	0.740	78.60	101.00	10.70	635.0	0.232	228.00	18.85	124.50	629.00
442298	113.00	115.00	2.00	2	VO18158271 - Finalized	01/08/2018	0.055	1.420	190.50	146.00	15.55	770.0	0.546	958.00	110.00	187.00	2 960.00
442299	115.00	117.00	2.00	2	VO18158271 - Finalized	01/08/2018	0.081	1.300	115.00	136.00	16.35	418.0	0.326	199.00	16.25	164.00	929.00
442300	117.00	118.50	1.50	2	VO18158271 - Finalized	01/08/2018	0.120	1.960	129.50	170.00	20.30	415.0	0.416	164.00	17.40	125.00	1 100.00
456401	118.50	119.25	0.75	2	VO18158274 - Finalized	20/07/2018	0.021	1.300	26.80	362.00	23.60	1,550.0	0.090	136.00	18.95	134.50	601.00
456402	119.25	120.00	0.75	2	VO18158274 - Finalized	20/07/2018	0.007	0.200	48.80	52.50	8.87	2,050.0	0.010	19.00	3.12	14.70	34.00
456403	120.00	121.00	1.00	2	VO18158274 - Finalized	20/07/2018	0.004	0.030	1.90	3.90	17.05	4,610.0	0.003	18.00	0.63	5.40	20.00
456404	121.00	122.00	1.00	2	VO18158274 - Finalized	20/07/2018	0.700	0.050	10.60	5.10	17.95	4,670.0	0.008	19.00	0.73	4.90	18.00
456405	122.00	123.00	1.00	2	VO18158274 - Finalized	20/07/2018	0.317	0.130	8.30	64.90	15.30	4,530.0	0.013	15.00	0.78	5.80	28.00
456406	123.00	124.00	1.00	2	VO18158274 - Finalized	20/07/2018	0.336	0.070	10.60	29.30	24.60	7,730.0	0.008	17.00	0.37	4.10	35.00
456407	124.00	125.00	1.00	2	VO18158274 - Finalized	20/07/2018	0.035	0.030	5.10	9.30	23.10	7,860.0	0.003	22.00	0.68	3.50	27.00
456408	125.00	126.00	1.00	2	VO18158274 - Finalized	20/07/2018	0.041	0.020	0.60	10.70	24.70	6,790.0	0.003	7.00	0.33	2.20	23.00
456410	126.00	127.00	1.00	2	VO18158274 - Finalized	20/07/2018	0.633	0.290	1.80	81.90	26.20	6,650.0	0.014	19.00	0.38	18.80	50.00
456411	127.00	128.00	1.00	2	VO18158274 - Finalized	20/07/2018	0.260	0.090	1.00	16.00	26.50	11,100.0	0.003	43.00	0.73	8.60	40.00
456412	128.00	129.20	1.20	2	VO18158274 - Finalized	20/07/2018	0.004	0.040	3.70	6.50	24.40	11,750.0	0.003	43.00	0.75	10.90	20.00
456413	129.20	131.00	1.80	2	VO18158274 - Finalized	20/07/2018	0.016	0.370	44.70	49.20	11.40	796.0	0.013	227.00	4.60	55.30	149.00
456414	131.00	133.00	2.00	2	VO18158274 - Finalized	20/07/2018	0.016	0.290	1.80	65.60	7.61	436.0	0.020	246.00	4.37	52.10	222.00
456415	133.00	135.00	2.00	2	VO18158274 - Finalized	20/07/2018	0.015	0.310	1.40	70.20	8.82	469.0	0.028	252.00	3.84	58.30	319.00
456417	135.00	136.00	1.00	2	VO18158274 - Finalized	20/07/2018	0.011	0.170	0.90	61.40	6.50	331.0	0.018	248.00	4.43	45.40	161.00
456418	136.00	138.00	2.00	2	VO18158274 - Finalized	20/07/2018	0.002	0.150	59.00	102.50	8.11	1,020.0	0.005	280.00	1.12	91.90	142.00
456419	138.00	139.60	1.60	2	VO18158274 - Finalized	20/07/2018	0.005	0.230	71.40	140.00	7.93	1,110.0	0.003	294.00	0.79	106.00	139.00
456420	139.60	141.00	1.40	2	VO18158274 - Finalized	20/07/2018	0.005	0.080	0.70	82.10	6.76	423.0	0.003	234.00	3.91	48.40	184.00
456421	141.00	143.00	2.00	2	VO18163676 - Finalized	26/07/2018	0.008	0.120	1.30	85.60	6.08	410.0	0.005	155.00	2.09	38.80	151.00
456422	143.00	144.30	1.30	2	VO18163676 - Finalized	26/07/2018	0.011	0.140	1.20	68.40	5.65	611.0	0.003	242.00	4.46	53.80	92.00

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456423	144.30	146.00	1.70	2	VO18163676 - Finalized	26/07/2018	0.003	0.110	67.60	74.20	8.08	1,380.0	0.003	312.00	0.78	81.20	161.00
456424	146.00	148.00	2.00	2	VO18163676 - Finalized	26/07/2018	0.010	0.180	16.30	75.50	9.35	989.0	0.003	239.00	3.40	54.70	137.00
456425	148.00	150.00	2.00	2	VO18163676 - Finalized	26/07/2018	0.012	0.220	39.80	49.10	10.65	879.0	0.005	190.00	0.89	44.20	127.00
456426	150.00	152.00	2.00	2	VO18163676 - Finalized	26/07/2018	0.027	0.360	56.60	64.50	17.75	1,420.0	0.010	234.00	17.80	49.30	320.00
456427	152.00	154.00	2.00	2	VO18163676 - Finalized	26/07/2018	3.900	0.120	32.90	22.70	9.57	971.0	0.006	271.00	4.64	57.20	171.00
456428	154.00	155.00	1.00	2	VO18163676 - Finalized	26/07/2018	0.078	0.240	275.00	52.10	17.80	5,310.0	0.006	105.00	0.77	29.00	243.00
456430	155.00	156.00	1.00	2	VO18163676 - Finalized	26/07/2018	0.041	0.230	2 300.00	89.30	20.30	887.0	0.023	210.00	14.90	41.00	463.00
456431	156.00	157.00	1.00	2	VO18163676 - Finalized	26/07/2018	0.056	0.100	804.00	16.60	9.22	781.0	0.018	103.00	7.97	14.10	249.00
456432	157.00	158.00	1.00	2	VO18163676 - Finalized	26/07/2018	0.024	0.630	7.70	143.50	18.95	1,050.0	0.017	105.00	16.20	57.80	264.00
456433	158.00	159.00	1.00	2	VO18163676 - Finalized	26/07/2018	0.086	0.690	11.40	152.00	20.50	3,410.0	0.014	92.00	11.65	56.70	252.00
456434	159.00	160.00	1.00	2	VO18163676 - Finalized	26/07/2018	0.158	0.560	405.00	103.00	25.40	6,140.0	0.018	86.00	11.90	47.30	134.00
456435	160.00	161.00	1.00	2	VO18163676 - Finalized	26/07/2018	0.108	0.050	180.50	24.50	25.20	5,730.0	0.040	15.00	0.14	6.70	70.00
456437	161.00	162.00	1.00	2	VO18163676 - Finalized	26/07/2018	1.365	0.250	766.00	16.30	27.40	8,350.0	0.005	12.00	0.14	4.90	40.00
456438	162.00	163.00	1.00	2	VO18163676 - Finalized	26/07/2018	0.365	0.080	1 245.00	28.10	24.90	9,030.0	0.009	34.00	5.08	9.70	63.00
456439	163.00	164.00	1.00	2	VO18163676 - Finalized	26/07/2018	0.190	0.360	712.00	61.10	19.00	4,880.0	0.011	10.00	0.21	29.30	41.00
456440	164.00	165.00	1.00	2	VO18163676 - Finalized	26/07/2018	0.066	0.250	109.50	37.90	22.30	6,990.0	0.008	20.00	0.35	15.20	73.00
456441	165.00	166.00	1.00	2	VO18163677 - Finalized	28/07/2018	0.079	0.060	94.70	16.20	21.60	6,650.0	0.006	14.00	0.24	4.40	39.00
456442	166.00	167.00	1.00	2	VO18163677 - Finalized	28/07/2018	0.131	0.100	155.00	33.10	25.90	6,370.0	0.011	7.00	0.15	15.60	44.00
456443	167.00	168.00	1.00	2	VO18163677 - Finalized	28/07/2018	0.305	0.050	352.00	17.00	20.00	5,720.0	0.019	7.00	0.39	5.00	39.00
456444	168.00	169.00	1.00	2	VO18163677 - Finalized	28/07/2018	0.020	0.030	50.50	7.20	20.90	5,880.0	0.017	6.00	1.42	4.20	29.00
456445	169.00	170.00	1.00	2	VO18163677 - Finalized	28/07/2018	0.391	0.100	391.00	30.90	27.20	5,910.0	0.006	12.00	1.75	9.70	43.00
456446	170.00	170.90	0.90	2	VO18163677 - Finalized	28/07/2018	0.068	0.210	33.70	60.70	23.40	7,210.0	0.051	18.00	1.37	20.80	76.00
456447	170.90	172.00	1.10	2	VO18163677 - Finalized	28/07/2018	0.060	1.660	1.70	279.00	27.30	584.0	0.065	230.00	28.10	109.00	131.00
456448	172.00	174.00	2.00	2	VO18163677 - Finalized	28/07/2018	0.083	1.820	17.30	256.00	25.90	712.0	0.105	109.00	20.50	104.50	1 210.00
456450	174.00	175.00	1.00	2	VO18163677 - Finalized	28/07/2018	0.014	0.520	6.20	107.50	16.25	5,710.0	0.014	20.00	1.17	39.30	85.00
456451	175.00	175.70	0.70	2	VO18163677 - Finalized	28/07/2018	0.018	0.970	0.80	196.00	21.00	6,520.0	0.006	45.00	5.01	74.20	115.00
456452	175.70	177.00	1.30	2	VO18163677 - Finalized	28/07/2018	0.048	1.590	1.00	260.00	25.10	1,510.0	0.111	142.00	15.90	118.00	707.00
456453	177.00	179.00	2.00	2	VO18163677 - Finalized	28/07/2018	0.054	1.710	2.30	241.00	21.00	668.0	0.122	210.00	21.90	102.00	1 000.00
456454	179.00	180.00	1.00	2	VO18163677 - Finalized	28/07/2018	0.068	1.880	3.40	231.00	21.00	432.0	0.143	192.00	22.60	106.00	1 190.00
456455	180.00	181.20	1.20	2	VO18163677 - Finalized	28/07/2018	0.069	2.500	0.80	290.00	30.20	914.0	0.105	136.00	17.30	159.00	733.00
456457	181.20	182.00	0.80	2	VO18163677 - Finalized	28/07/2018	0.006	0.700	1.10	159.00	15.75	5,500.0	0.014	43.00	4.12	58.90	122.00
456458	182.00	183.00	1.00	2	VO18163677 - Finalized	28/07/2018	0.028	0.690	58.20	134.50	14.95	5,250.0	0.007	17.00	0.48	43.90	48.00
456459	183.00	184.00	1.00	2	VO18163677 - Finalized	28/07/2018	0.020	1.170	88.20	263.00	21.90	7,240.0	0.017	35.00	0.89	88.70	89.00
456460	184.00	185.90	1.90	2	VO18163677 - Finalized	28/07/2018	0.079	2.580	10.10	309.00	24.10	624.0	0.183	148.00	17.80	115.50	1 300.00
456461	185.90	187.00	1.10	2	VO18163678 - Finalized	27/07/2018	0.009	0.950	91.70	233.00	17.20	4,630.0	0.031	25.00	0.76	86.40	206.00
456462	187.00	187.90	0.90	2	VO18163678 - Finalized	27/07/2018	0.003	0.630	2.40	139.50	11.80	3,920.0	0.013	30.00	2.96	50.50	69.00
456463	187.90	189.00	1.10	2	VO18163678 - Finalized	27/07/2018	0.058	2.970	11.40	439.00	28.90	496.0	0.159	144.00	18.40	158.00	585.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456464	189.00	191.00	2.00	2	VO18163678 - Finalized	27/07/2018	0.062	3.020	11.30	381.00	25.00	414.0	0.257	147.00	15.95	155.00	1 620.00
456465	191.00	193.00	2.00	2	VO18163678 - Finalized	27/07/2018	0.048	3.330	6.20	417.00	27.00	478.0	0.214	141.00	16.25	200.00	1 280.00
456466	193.00	194.30	1.30	2	VO18163678 - Finalized	27/07/2018	0.016	1.950	12.50	352.00	25.00	417.0	0.049	177.00	21.20	170.00	144.00
456467	194.30	195.00	0.70	2	VO18163678 - Finalized	27/07/2018	0.002	0.890	115.50	304.00	18.45	6,680.0	0.007	19.00	0.47	143.00	50.00
456468	195.00	196.00	1.00	2	VO18163678 - Finalized	27/07/2018	0.001	1.030	0.60	281.00	19.15	5,180.0	0.019	52.00	0.87	133.50	73.00
456470	196.00	197.00	1.00	2	VO18163678 - Finalized	27/07/2018	0.003	0.640	0.90	112.00	9.38	2,180.0	0.007	27.00	0.57	46.00	33.00
456471	197.00	198.00	1.00	2	VO18163678 - Finalized	27/07/2018	0.003	0.470	18.50	131.50	12.00	3,470.0	0.012	50.00	3.17	74.60	75.00
456472	198.00	198.90	0.90	2	VO18163678 - Finalized	27/07/2018	0.005	0.930	4.60	325.00	17.65	5,550.0	0.017	33.00	1.79	161.00	120.00
456473	198.90	200.00	1.10	2	VO18163678 - Finalized	27/07/2018	0.007	1.560	35.40	330.00	22.40	277.0	0.117	256.00	25.00	184.00	863.00
456474	200.00	202.00	2.00	2	VO18163678 - Finalized	27/07/2018	0.045	2.200	176.00	162.50	16.90	661.0	0.688	1 250.00	128.50	269.00	3 060.00
456475	202.00	204.00	2.00	2	VO18163678 - Finalized	27/07/2018	0.059	2.280	256.00	142.50	15.95	521.0	0.861	1 280.00	134.50	368.00	2 950.00
456477	204.00	206.00	2.00	2	VO18163678 - Finalized	27/07/2018	0.041	1.410	242.00	95.50	15.35	482.0	0.665	709.00	71.80	230.00	2 110.00
456478	206.00	208.00	2.00	2	VO18163678 - Finalized	27/07/2018	0.041	1.250	217.00	107.00	15.55	294.0	0.538	349.00	36.60	177.00	1 380.00
456479	208.00	210.00	2.00	2	VO18163678 - Finalized	27/07/2018	0.025	0.980	145.00	113.00	13.25	305.0	0.310	249.00	24.60	160.00	996.00
456480	210.00	212.00	2.00	2	VO18163678 - Finalized	27/07/2018	0.015	0.680	57.70	99.50	9.72	122.0	0.124	175.00	11.65	105.50	403.00
456481	212.00	214.00	2.00	2	VO18163679 - Finalized	27/07/2018	0.017	0.630	58.10	95.50	10.65	224.0	0.159	188.00	12.00	111.50	513.00
456482	214.00	216.00	2.00	2	VO18163679 - Finalized	27/07/2018	0.021	0.870	71.80	87.90	10.75	310.0	0.211	188.00	14.30	118.00	756.00
456483	216.00	218.00	2.00	2	VO18163679 - Finalized	27/07/2018	0.010	0.630	42.60	112.50	10.20	273.0	0.125	151.00	12.45	111.00	396.00
456484	218.00	220.00	2.00	2	VO18163679 - Finalized	27/07/2018	0.017	0.740	56.40	90.40	10.15	168.0	0.164	179.00	13.05	102.50	484.00



## Detailed Log Report

### Hole Number OSK-KAN-18-008

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-60.00 <b>Collar Az:</b> 270.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 366 396.00	<b>Length:</b>	181.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	June 26, 2018	<b>East:</b>	487 136.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	June 27, 2018	<b>Elev:</b>	95.10	<b>Casing Length:</b>	36.00 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	Y <b>Making Water:</b> N
<b>Logger 1:</b>	Cynthia Lee			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	Pyrite Falls Mag Destruction in hinge.			<b>Claims Title:</b>	2318455 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	36.00	<b>OVB, Overburden</b>					
<b>Comments:</b>							
36.00	44.50	<b>S6, Mudrock</b>	456485	36.00	37.00	1.00	S6 GP; NO ALT; 3% Py DI BD 8% Po IG SCH
			456486	37.00	38.20	1.20	S6 GP; NO ALT; 3% Py DI BD 8% Po IG SCH
<b>Comments:</b>							
			456487	38.20	40.60	2.40	S9; NO ALT; 70% Po LA BD 2% Py LA BD
			456488	40.60	42.50	1.90	S6 GP; NO ALT; 5% Po LA BD 2% Py LA BD
			456490	42.50	44.50	2.00	S6 GP; NO ALT; 5% Po LA BD 2% Py LA BD

Cynthia Lee, Ing. Jr. OIQ : 5082751

From	To	Lithology	Sample	From	To	Length	Comments
44.50	74.60	I3A, Gabbro	456491	44.50	46.50	2.00	I3A; Ser-1 CC-3; 0.5% Po DI PER
			456492	46.50	48.50	2.00	I3A; Ser-1 CC-3; 0.5% Po DI PER
			456493	48.50	50.50	2.00	; 0.5% Po DI PER
			456494	50.50	52.50	2.00	I3A GH; CC-4; 0.5% Po DI PER
			456495	52.50	54.50	2.00	I3A GH; CC-4; 0.5% Po DI PER
			456497	54.50	56.50	2.00	I3A GH; CC-4; 0.5% Po DI PER
			456498	56.50	58.50	2.00	I3A GH; CC-4; 0.5% Po DI PER
			456499	58.50	60.50	2.00	; 0.5% Po DI PER
			456500	60.50	62.50	2.00	I3A; Ser-1 CC-3; 0.5% Po DI PER
			456501	62.50	64.50	2.00	I3A; Ser-1 CC-3; 0.5% Po DI PER
			456502	64.50	66.50	2.00	I3A; Ser-1 CC-3; 0.5% Po DI PER
			456503	66.50	68.50	2.00	I3A; Ser-1 CC-3; 0.5% Po DI PER
			456504	68.50	70.50	2.00	I3A; Ser-1 CC-3; 0.5% Po DI PER
			456505	70.50	72.50	2.00	I3A; Ser-1 CC-3
			456506	72.50	74.60	2.10	I3A
			74.60	81.70	S6, Mudrock	456507	74.60
456508	76.00	78.00				2.00	S6 GP; NO ALT; 4% Po LA BD
456510	78.00	80.00				2.00	S6 GP; NO ALT; 4% Po LA BD
456511	80.00	81.70				1.70	S6 GP; Chl-3; 4% Po LA BD
81.70	85.70	S9, Iron formation	456512	81.70	82.70	1.00	S9D; Ser-3 Chl-3 Ank-2; 1% Po AL VN
			456513	82.70	83.70	1.00	S9D; Ser-3 Chl-3 Ank-2; 1% Po AL VN
			456514	83.70	84.70	1.00	S9D; Ser-3 Chl-3 Ank-2; 1% Po AL VN
			456515	84.70	85.70	1.00	S9D; Ser-3 Chl-3 Ank-2; 1% Po AL VN
85.70	87.50	S6, Mudrock	456517	85.70	86.50	0.80	S6b; 15% Po SS CTC
			456518	86.50	87.50	1.00	S6b; Sil-2 Chl-2; 8% Po LA BD
87.50	93.10	S9, Iron formation	456519	87.50	88.00	0.50	S9D; Chl-3 Sil-3; 5% Mt DI PER
			456520	88.00	89.00	1.00	S9D; Chl-3 Sil-3; 5% Mt DI PER
			456521	89.00	90.00	1.00	S9D; Chl-3 Sil-3; 5% Mt DI PER
			456523	90.00	91.00	1.00	S9D; Chl-3 Sil-3; 5% Mt DI PER
			456524	91.00	92.00	1.00	S9D; Chl-3 Sil-3; 5% Mt DI PER
			456525	92.00	93.10	1.10	S9D; Chl-3 Sil-3; 5% Mt DI PER
93.10	102.70	I3A, Gabbro	456526	93.10	95.00	1.90	I3A; Carb-1NO MIN
			456527	95.00	97.00	2.00	I3A; Carb-1NO MIN
			456528	97.00	99.00	2.00	I3A; Carb-1NO MIN
			456530	99.00	101.00	2.00	; Carb-1NO MIN
			456531	101.00	102.70	1.70	I3A; Carb-1NO MIN



From	To	Lithology	Sample	From	To	Length	Comments
102.70	115.30	S9, Iron formation	456532	102.70	103.50	0.80	S9D; Chl-3; 0.5% Po AL VN
			456533	103.50	104.50	1.00	S9D; Chl-3; 0.5% Po AL VN
			456534	104.50	105.50	1.00	S9D; Chl-3; 0.5% Po AL VN
			456535	105.50	106.50	1.00	S9D; Chl-3; 0.5% Po AL VN
			456537	106.50	107.50	1.00	S9D; Chl-3; 0.5% Po AL VN
			456538	107.50	108.50	1.00	; 35% I1N AK CL 20 cm
			456539	108.50	109.50	1.00	S10C; Sil-2 Ank-3 Chl-2
			456540	109.50	110.50	1.00	S10C; Sil-2 Ank-3 Chl-2; 1% Po AL BD
			456541	110.50	111.50	1.00	S10C; Sil-2 Ank-3 Chl-2; 1% Po AL BD
			456542	111.50	112.60	1.10	S9D; Ank-2 Chl-2; 1% Po AL BD
			456544	112.60	113.60	1.00	S9D; Ank-2 Chl-2; 1% Po SS VN
			456545	113.60	114.50	0.90	S9D; Ank-2 Chl-2; 5% Mt EUH CTC
			456546	114.50	115.30	0.80	S9D; Ank-2 Chl-2; 5% Mt EUH CTC

Comments:

From	To	Lithology	Sample	From	To	Length	Comments
115.30	181.00	I3A, Gabbro	456547	115.30	117.00	1.70	I3A; Carb-1NO MIN
			456548	117.00	119.00	2.00	I3A; Carb-1NO MIN
<b>Comments:</b>			456550	119.00	121.00	2.00	I3A; Carb-1NO MIN
			456551	121.00	123.00	2.00	I3A; Carb-1NO MIN
			456552	123.00	125.00	2.00	I3A; Carb-1NO MIN
			456553	125.00	127.00	2.00	; Carb-1
			456554	127.00	129.00	2.00	S6g; Carb-1; 0.5% Po SS SCH 0.5% Py SS SCH
			456555	129.00	131.00	2.00	I3A; Carb-1NO MIN
			456557	131.00	133.00	2.00	I3A; Carb-1NO MIN
			456558	133.00	135.00	2.00	I3A; Carb-1NO MIN
			456559	135.00	137.00	2.00	I3A; Carb-1NO MIN
			456560	137.00	139.00	2.00	I3A; Carb-1NO MIN
			456561	139.00	141.00	2.00	I3A; Carb-1NO MIN
			456562	141.00	143.00	2.00	I3A; Carb-1NO MIN
			456563	143.00	145.00	2.00	I3A; Carb-1NO MIN
			456564	145.00	147.00	2.00	I3A; Carb-1NO MIN
			456565	147.00	149.00	2.00	I3A; Carb-1NO MIN
			456566	149.00	151.00	2.00	I3A; Carb-1NO MIN
			456567	151.00	153.00	2.00	I3A; Carb-1NO MIN
			456568	153.00	155.00	2.00	I3A; Carb-1NO MIN
			456570	155.00	157.00	2.00	I3A; Carb-1NO MIN
			456571	157.00	159.00	2.00	I3A; Carb-1NO MIN
			456572	159.00	161.00	2.00	I3A; Carb-1NO MIN
			456573	161.00	163.00	2.00	I3A; Carb-1NO MIN
			456574	163.00	165.00	2.00	I3A; Carb-1NO MIN
			456575	165.00	167.00	2.00	I3A; Carb-1NO MIN
			456577	167.00	169.00	2.00	; Carb-1
			456578	169.00	171.00	2.00	; Carb-1
			456579	171.00	173.00	2.00	I3A; Carb-1NO MIN
			456580	173.00	175.00	2.00	I3A; Carb-1NO MIN
			456581	175.00	177.00	2.00	I3A; Carb-1NO MIN
			456582	177.00	179.00	2.00	I3A; Carb-1NO MIN
			456583	179.00	181.00	2.00	I3A; Carb-1NO MIN

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
10.00	352.70	-60.70	FM	Test Non-OK	
13.00	303.00	-60.10	FM	Test Non-OK	
16.00	327.40	-59.70	FM	Test Non-OK	
19.00	327.80	-59.70	FM	Test Non-OK	
22.00	307.50	-59.00	FM	Test Non-OK	
25.00	326.60	-58.80	FM	Test Non-OK	
28.00	349.10	-58.50	FM	Test Non-OK	
31.00	6.80	-59.00	FM	Test Non-OK	
34.00	6.10	-59.00	FM	Test Non-OK	
37.00	322.90	-59.40	FM	Test Non-OK	
40.00	322.70	-59.40	FM	Test Non-OK	
43.00	334.40	-59.30	FM	Test Non-OK	
46.00	277.70	-59.20	FM	Test Non-OK	
49.00	268.30	-59.30	FM	Test OK-Accept	
52.00	266.60	-59.20	FM	Test OK-Accept	
55.00	265.30	-59.20	FM	Test OK-Accept	
58.00	265.50	-59.10	FM	Test OK-Accept	
61.00	265.00	-59.20	FM	Test OK-Accept	
64.00	265.60	-59.10	FM	Test OK-Accept	
67.00	266.30	-59.20	FM	Test OK-Accept	
70.00	267.10	-59.20	FM	Test OK-Accept	
73.00	266.70	-59.20	FM	Test OK-Accept	
76.00	267.90	-59.30	FM	Test OK-Accept	
79.00	269.00	-59.30	FM	Test Non-OK	
82.00	270.10	-59.30	FM	Test Non-OK	
85.00	271.70	-59.30	FM	Test Non-OK	
88.00	273.90	-59.30	FM	Test Non-OK	
91.00	278.50	-59.30	FM	Test Non-OK	
94.00	278.90	-59.40	FM	Test Non-OK	
97.00	280.00	-59.30	FM	Test Non-OK	
100.00	265.40	-59.40	FM	Test Non-OK	
103.00	271.60	-59.30	FM	Test Non-OK	
106.00	271.20	-59.40	FM	Test Non-OK	
109.00	273.00	-59.30	FM	Test Non-OK	
112.00	199.10	-59.30	FM	Test Non-OK	
115.00	262.70	-59.30	FM	Test Non-OK	
118.00	274.90	-59.10	FM	Test Non-OK	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
121.00	266.10	-59.00	FM	Test Non-OK	
124.00	277.90	-58.90	FM	Test Non-OK	
127.00	273.10	-59.00	FM	Test Non-OK	
130.00	271.60	-59.00	FM	Test Non-OK	
133.00	264.70	-58.90	FM	Test Non-OK	
136.00	270.40	-58.90	FM	Test Non-OK	
139.00	269.50	-59.00	FM	Test Non-OK	
142.00	269.00	-59.10	FM	Test Non-OK	
145.00	274.10	-57.10	FM	Test Non-OK	
148.00	268.80	-59.10	FM	Test Non-OK	
151.00	268.80	-59.10	FM	Test Non-OK	
154.00	268.80	-59.10	FM	Test Non-OK	
157.00	268.10	-59.10	FM	Test Non-OK	
160.00	268.80	-59.10	FM	Test Non-OK	
163.00	268.10	-59.10	FM	Test Non-OK	
166.00	257.20	-61.90	FM	Test Non-OK	
169.00	269.10	-59.20	FM	Test Non-OK	
172.00	269.50	-59.20	FM	Test Non-OK	
175.00	269.30	-59.30	FM	Test OK-Accept	
178.00	268.90	-59.30	FM	Test OK-Accept	
181.00	268.10	-59.40	FM	Test OK-Accept	

Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
36.00	38.20	S6	BD	HJ			S6 GP			BK		1	Aph		82.00	DIF	
38.20	40.60	S6	BD	PQ			S9			BN		1	Aph		82.00	DIF	Massive sulfide, 90% pyrrhotite with 2% mm martite porphyroblast and 4% <1mm pyrite laminae
40.60	44.50	S6	BD	HJ			S6 GP			BG		1	Aph		48.00	DIF	
44.50	49.00	I3A	CS	HJ			I3A			GM	GN	2	FG			BC	sheared gabbro at contact with overlying black shale unit.
49.00	59.40	I3A	GH	MA			I3A GH			GM	GN	2	MG			VN	glomerophyric gabbro with 10% mm calcite and ankerite phenocrystals, stretched along mineral lineation
59.40	74.60	I3A	CS	HK			I3A			GM	GN	2	FG			DIF	schistous gabbro, sheared at contact with underlying grey shale unit
74.60	81.70	S6	BD	HJ			S6 GP			GD		1	Aph		85.00	SHP	black shale with 3% centimetric (3-5cm) quartz chlorite pyrrhotite veins. graphitous. (maybe it is a grey shale)
81.70	85.70	S9	PQ	HK			S9D			VM		2	MG	3	56.00	SHP	silicate-oxide iron formation with radiating grunerite, as well as 8% millimetric disseminated magnetite idiomorphe grains, distributed preferentially along certain beds. injected with 5% quartz-ankerite-chlorite veinlets.
85.70	87.50	S6	BD	HK			S6b			BK	GM	2	FG		55.00	DIF	possibly a transitional unit between iron formation, a sulfidized iron formation. we find millimetric chloritised bands within the unit, as well as 10-15% fine millimetric bands of pyrrhotite.
87.50	93.10	S9	HK	PQ			S9D			VM	BG	2	MG		54.00	VN	
93.10	100.00	I3A	MA	HJ			I3A			VM	GL	2	MG			DIF	
100.00	102.70	I3A	CS				I3A			VM	GL	2	FG		36.00	SHP	
102.70	107.90	S9	BD	BX			S9D	5.00	Silica	VM		2	MG			VN	
107.90	111.50	S9	BD	IU			S10C			GM		3	FG			VN	seems to be a silicified cherty interval, injected with 20% quartz-ankerite-chlorite.
111.50	115.30	S9	BD				S9D			GN		2	MG				
115.30	126.00	I3A	FO	HJ			I3A			VM		2	MG			DIF	presence of disseminated biotite at contact with overlying iron formation.

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
126.00	129.00	I3A	CS	HJ			S6g			VM		2	FG			DIF	slightly mineralised with 1-2% pyrite and pyrrhotite in stringers following schistosity.
129.00	167.50	I3A	MA	HJ			I3A			VM		2	MG			DIF	massive gabbro, with slight ankerite disseminated throughout in trace amounts (<1mm)
167.50	170.60	I3A	CS	RU			S6g			VM		2	FG			DIF	mineralised with 2% of massive pyrrhotite veinlets of 5-8mm thickness
170.60	181.00	I3A	MA	FO			I3A			VM		2	MG			NA	

**Mineralization Data**

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
36.00	38.20		Py	3.00	DI	BD		Po	8.00	IG	SCH						
38.20	40.60		Po	70.00	LA	BD		Py	2.00	LA	BD						
40.60	44.50		Po	5.00	LA	BD		Py	2.00	LA	BD						
44.50	71.50		Po	0.50	DI	PER											
74.60	81.70		Po	4.00	LA	BD											
81.70	85.70		Po	1.00	AL	VN											
85.70	86.00		Po	15.00	SS	CTC											
86.00	87.50		Po	8.00	LA	BD											
87.50	93.10		Mt	5.00	DI	PER											
93.10	102.70		NO MIN														
102.70	108.00		Po	0.50	AL	VN											
108.00	109.00		Po	2.00	AL	VN											
109.00	112.60		Po	1.00	AL	BD						stretched clusters along S0					
112.60	113.60		Po	1.00	SS	VN						stringers in wall rock of vein that finishes at 112.6m					
113.60	115.30		Mt	5.00	EUH	CTC						millimetric idiomorph grains of magnetite disseminated along S0 at contact with underlying I3A					
115.30	126.00		NO MIN														
126.00	129.00		Po	0.50	SS	SCH		Py	0.50	SS	SCH						
129.00	167.50		NO MIN														
167.50	170.60		Po	1.00	MA	FRC						massive 5 to 10mm pyrrhotite veinlets following S1					
170.60	181.00		NO MIN														

Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
36.00	44.50	NO ALT									
44.50	49.00	Ser	1	PEN	CC	3	PEN				penetrative carbonatation as disseminated mm grains as well as <1mm fine veinlets.
49.00	59.40	CC	4	DI							15% calcite and ankerite phenocrystals, 1-2mm in size. disseminated throughout
59.40	73.00	Ser	1	PEN	CC	3	PEN				
73.00	74.60	Chl	2	CTL	Carb	2	CTL				
74.60	80.00	NO ALT									
80.00	81.70	Chl	3	CTC							
81.70	86.00	Ser	3	RU	Chl	3	VN	Ank	2	VN	
86.00	87.50	Sil	2	SCH	Chl	2	SCH				
87.50	93.10	Chl	3	VN	Sil	3	FF				decimetric chlorite bands, likely that some chlorite is primary and some from alteration.
93.10	102.70	Carb	1	DI							
102.70	107.90	Chl	3	VN							
107.90	111.50	Sil	2	PEN	Ank	3	VN	Chl	2	VN	silicified cherty interval with penetrative silicification
111.50	115.30	Ank	2	VN	Chl	2	VN				
115.30	181.00	Carb	1	DI							

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
107.00	109.00	35.00	20.00	I1N	UNK	Vein >5cm	AK	12.00	CL	5.00	QZ	83.00				Po	2.00			

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments

## Oriented Structure Data

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
39.30	S0		72.00										
43.30	S0		60.00										
44.50	CNT		48.00										
45.20	S0		75.00										
59.80	S0		70.00										
63.80			86.00	308.00	267.30	-59.25	-33.35	351.56	0.00	81.56	116.00	ELINE	
63.90	S0		80.00	242.00	267.30	-59.25	-27.37	337.82	0.00	67.82			
66.90	S0		52.00	222.00	268.63	-59.30	-24.33	269.87	0.00	359.87			
74.10	S0		64.00										
74.60	CNT		70.00										
79.20	S0		74.00										
85.70	CNT		56.00	64.00	267.47	-59.37	-53.95	35.90	0.00	125.90			
85.90	S0		49.00										
87.50	CNT		55.00										
87.80	S0		76.00										
93.10	CNT		54.00										
98.50	VN		56.00	2.00	266.77	-59.23	-64.76	358.00	0.00	88.00			
99.10			72.00	202.00	270.83	-59.17	-15.53	335.22	0.00	65.22	144.00	ELINE	
101.10	S0		72.00										
102.70	CNT		36.00	226.00	268.07	-58.98	-37.50	250.99	0.00	340.99			
103.10	S0		65.00	202.00	270.03	-58.97	-11.88	309.74	0.00	39.74			
105.90	S0		66.00	124.00	276.30	-58.93	-25.86	56.94	0.00	146.94			
109.50	AxialPlane		42.00	80.00	272.10	-59.00	-59.53	60.22	0.00	150.22			
109.60			42.00	80.00	271.85	-59.00	-59.53	59.97	0.00	149.97	80.00	FAXIS	
110.60	S0		56.00	66.00	269.30	-58.97	-53.62	38.68	0.00	128.68			
115.30	CNT		72.00	230.00	270.25	-58.92	-23.50	323.83	0.00	53.83			
117.90	S0		60.00										
120.90	S0		64.00	140.00	270.70	-58.43	-19.68	57.50	0.00	147.50			
127.00	S2		62.00	356.00	268.80	-59.10	-58.86	356.61	0.00	86.61			plan de crénulation
128.60	S0		64.00										
129.80	S0		39.00										
132.90	S0		60.00	144.00	268.22	-59.10	-18.04	69.84	0.00	159.84			
134.60	S0		78.00										
142.90	S0		54.00	170.00	349.10	-58.50	-7.14	203.86	0.00	293.86			



Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
145.50	S0		50.00	112.00	269.47	-59.22	-38.62	72.21	0.00	162.21			
149.30	S0		45.00	44.00	269.03	-59.30	-69.62	30.64	0.00	120.64			
156.30	S2		45.00	358.00	268.10	-59.40	-75.59	356.64	0.00	86.64			
159.90	S0		58.00	146.00	268.10	-59.40	-17.53	77.86	0.00	167.86			
167.80	S0		70.00										
177.80	S0		68.00	240.00	268.10	-59.40	-26.69	311.87	0.00	41.87			

**Sample Data - ASSAY**

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456485	36.00	37.00	1.00	2	VO18163679 - Finalized	27/07/2018	0.007	0.200	28.20	281.00	19.85	273.0	0.223	125.00	13.45	105.50	134.00
456486	37.00	38.20	1.20	2	VO18163679 - Finalized	27/07/2018	0.026	0.330	128.00	209.00	23.30	228.0	0.763	122.00	12.70	116.00	350.00
456487	38.20	40.60	2.40	2	VO18163679 - Finalized	27/07/2018	0.073	0.850	240.00	151.50	30.70	123.0	1.430	90.00	12.75	99.20	435.00
456488	40.60	42.50	1.90	2	VO18163679 - Finalized	27/07/2018	0.005	0.200	21.50	192.50	16.50	197.0	0.809	136.00	13.40	113.00	594.00
456490	42.50	44.50	2.00	2	VO18163679 - Finalized	27/07/2018	0.001	0.160	2.10	151.50	15.80	190.0	0.383	193.00	13.90	107.50	326.00
456491	44.50	46.50	2.00	2	VO18163679 - Finalized	27/07/2018	0.001	0.030	9.30	30.80	8.31	1,220.0	0.034	224.00	1.80	35.40	94.00
456492	46.50	48.50	2.00	2	VO18163679 - Finalized	27/07/2018	0.001	0.010	2.50	22.10	4.34	350.0	0.016	102.00	1.31	32.40	74.00
456493	48.50	50.50	2.00	2	VO18163679 - Finalized	27/07/2018	0.001	0.070	39.40	114.50	6.77	953.0	0.036	211.00	0.61	205.00	100.00
456494	50.50	52.50	2.00	2	VO18163679 - Finalized	27/07/2018	0.001	0.110	68.20	160.00	8.24	1,310.0	0.016	243.00	0.22	299.00	84.00
456495	52.50	54.50	2.00	2	VO18163679 - Finalized	27/07/2018	0.001	0.090	52.70	158.50	8.80	1,300.0	0.026	271.00	0.22	270.00	88.00
456497	54.50	56.50	2.00	2	VO18163679 - Finalized	27/07/2018	0.001	0.070	46.00	166.00	8.23	1,370.0	0.020	275.00	0.20	201.00	84.00
456498	56.50	58.50	2.00	2	VO18163679 - Finalized	27/07/2018	0.001	0.010	40.70	32.40	7.10	1,410.0	0.005	283.00	0.16	178.50	63.00
456499	58.50	60.50	2.00	2	VO18163679 - Finalized	27/07/2018	0.001	0.010	45.20	34.90	7.82	1,760.0	0.003	292.00	0.25	140.50	80.00
456500	60.50	62.50	2.00	2	VO18163679 - Finalized	27/07/2018	0.001	0.040	24.90	103.00	8.89	1,640.0	0.016	341.00	0.33	89.90	89.00
456501	62.50	64.50	2.00	2	VO18163680 - Finalized	26/07/2018	0.001	0.030	10.70	113.00	8.99	1,320.0	0.027	365.00	0.25	90.10	66.00
456502	64.50	66.50	2.00	2	VO18163680 - Finalized	26/07/2018	0.001	0.050	12.90	134.00	9.80	1,390.0	0.027	382.00	0.29	86.40	82.00
456503	66.50	68.50	2.00	2	VO18163680 - Finalized	26/07/2018	0.001	0.040	10.70	103.50	8.98	1,410.0	0.025	359.00	0.20	74.50	76.00
456504	68.50	70.50	2.00	2	VO18163680 - Finalized	26/07/2018	0.001	0.060	47.20	76.20	8.05	1,540.0	0.015	280.00	0.31	136.00	78.00
456505	70.50	72.50	2.00	2	VO18163680 - Finalized	26/07/2018	0.001	0.210	16.20	159.00	13.95	1,710.0	0.023	287.00	5.62	127.00	77.00
456506	72.50	74.60	2.10	2	VO18163680 - Finalized	26/07/2018	0.001	0.150	16.50	83.90	11.10	4,480.0	0.010	222.00	3.07	59.00	135.00
456507	74.60	76.00	1.40	2	VO18163680 - Finalized	26/07/2018	0.002	0.220	56.30	76.70	10.75	2,330.0	0.029	240.00	4.88	71.30	174.00
456508	76.00	78.00	2.00	2	VO18163680 - Finalized	26/07/2018	0.006	0.220	24.10	47.80	10.20	896.0	0.051	255.00	3.81	68.20	214.00
456510	78.00	80.00	2.00	2	VO18163680 - Finalized	26/07/2018	0.006	0.240	17.70	51.60	12.20	948.0	0.041	299.00	4.99	75.70	151.00
456511	80.00	81.70	1.70	2	VO18163680 - Finalized	26/07/2018	0.003	0.110	2.90	88.50	15.25	1,960.0	0.017	287.00	6.47	75.40	98.00
456512	81.70	82.70	1.00	2	VO18163680 - Finalized	26/07/2018	0.002	0.030	1.00	11.70	20.30	17,300.0	0.013	36.00	0.36	10.90	47.00
456513	82.70	83.70	1.00	2	VO18163680 - Finalized	26/07/2018	0.062	0.010	0.80	2.70	24.50	19,250.0	0.014	39.00	0.28	8.00	45.00
456514	83.70	84.70	1.00	2	VO18163680 - Finalized	26/07/2018	0.001	0.005	0.20	2.20	26.60	18,400.0	0.029	38.00	0.25	7.40	62.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456515	84.70	85.70	1.00	2	VO18163680 - Finalized	26/07/2018	0.008	0.140	0.30	49.80	25.80	12,350.0	0.013	30.00	0.17	29.20	92.00
456517	85.70	86.50	0.80	2	VO18163680 - Finalized	26/07/2018	0.010	0.410	1.60	179.50	26.00	3,090.0	0.044	203.00	15.70	106.00	96.00
456518	86.50	87.50	1.00	2	VO18163680 - Finalized	26/07/2018	0.001	0.360	0.10	125.50	22.10	658.0	0.040	311.00	21.90	107.50	64.00
456519	87.50	88.00	0.50	2	VO18163680 - Finalized	26/07/2018	0.002	0.470	0.80	168.50	21.80	430.0	0.115	303.00	21.60	102.50	27.00
456520	88.00	89.00	1.00	2	VO18163680 - Finalized	26/07/2018	0.003	0.020	4.30	26.80	12.80	5,330.0	0.019	12.00	1.17	4.40	12.00
456521	89.00	90.00	1.00	2	VO18163682 - Finalized	27/07/2018	0.001	0.050	3.70	177.50	23.30	11,500.0	0.067	21.00	1.11	6.70	33.00
456523	90.00	91.00	1.00	2	VO18163682 - Finalized	27/07/2018	0.001	0.060	46.90	195.00	18.90	12,600.0	0.050	15.00	0.12	2.50	31.00
456524	91.00	92.00	1.00	2	VO18163682 - Finalized	27/07/2018	0.001	0.040	4.10	3.20	24.80	6,460.0	0.035	334.00	0.45	77.60	78.00
456525	92.00	93.10	1.10	2	VO18163682 - Finalized	27/07/2018	0.001	0.160	1.10	35.90	24.50	7,640.0	0.031	77.00	0.28	13.00	55.00
456526	93.10	95.00	1.90	2	VO18163682 - Finalized	27/07/2018	0.001	0.110	4.40	101.00	10.05	2,030.0	0.019	379.00	0.26	81.40	100.00
456527	95.00	97.00	2.00	2	VO18163682 - Finalized	27/07/2018	0.001	0.060	4.60	125.50	8.82	1,480.0	0.042	328.00	0.24	108.00	97.00
456528	97.00	99.00	2.00	2	VO18163682 - Finalized	27/07/2018	0.001	0.060	12.50	129.50	8.83	1,500.0	0.032	326.00	0.26	123.00	97.00
456530	99.00	101.00	2.00	2	VO18163682 - Finalized	27/07/2018	0.001	0.090	42.20	126.00	9.11	1,630.0	0.035	343.00	0.24	128.00	98.00
456531	101.00	102.70	1.70	2	VO18163682 - Finalized	27/07/2018	0.001	0.070	12.50	75.20	11.40	2,010.0	0.018	358.00	0.48	98.10	98.00
456532	102.70	103.50	0.80	2	VO18163682 - Finalized	27/07/2018	0.001	0.005	2.70	7.50	22.20	6,430.0	0.005	123.00	2.45	32.40	46.00
456533	103.50	104.50	1.00	2	VO18163682 - Finalized	27/07/2018	0.001	0.005	2.10	1.40	26.80	11,350.0	0.006	37.00	0.26	5.30	31.00
456534	104.50	105.50	1.00	2	VO18163682 - Finalized	27/07/2018	0.001	0.010	1.20	1.00	32.80	8,440.0	0.003	16.00	0.35	4.30	41.00
456535	105.50	106.50	1.00	2	VO18163682 - Finalized	27/07/2018	0.001	0.020	3.20	19.40	32.30	9,310.0	0.010	22.00	0.12	3.80	43.00
456537	106.50	107.50	1.00	2	VO18163682 - Finalized	27/07/2018	0.003	0.050	2.20	58.00	30.00	7,940.0	0.024	24.00	0.31	4.10	50.00
456538	107.50	108.50	1.00	2	VO18163682 - Finalized	27/07/2018	0.004	0.040	3.60	44.10	19.65	11,550.0	0.026	27.00	0.35	5.90	36.00
456539	108.50	109.50	1.00	2	VO18163682 - Finalized	27/07/2018	0.033	0.050	1.60	51.20	20.30	13,150.0	0.036	31.00	0.31	8.50	32.00
456540	109.50	110.50	1.00	2	VO18163682 - Finalized	27/07/2018	0.001	0.040	3.20	40.50	21.90	10,800.0	0.034	81.00	2.01	26.30	58.00
456541	110.50	111.50	1.00	2	VO18163685 - Finalized	26/07/2018	0.001	0.040	6.60	51.30	20.30	15,400.0	0.028	66.00	1.21	15.10	44.00
456542	111.50	112.60	1.10	2	VO18163685 - Finalized	26/07/2018	0.001	0.020	3.60	49.90	20.10	9,280.0	0.027	43.00	0.81	14.40	88.00
456544	112.60	113.60	1.00	2	VO18163685 - Finalized	26/07/2018	0.002	0.030	1.00	77.20	30.90	10,600.0	0.013	23.00	0.21	3.50	84.00
456545	113.60	114.50	0.90	2	VO18163685 - Finalized	26/07/2018	0.586	0.040	0.90	62.10	24.40	8,490.0	0.035	26.00	0.32	3.00	55.00
456546	114.50	115.30	0.80	2	VO18163685 - Finalized	26/07/2018	0.065	0.020	1.00	69.80	19.70	4,890.0	0.007	33.00	0.37	9.90	43.00
456547	115.30	117.00	1.70	2	VO18163685 - Finalized	26/07/2018	0.002	0.050	26.50	96.80	9.25	1,500.0	0.020	356.00	0.28	85.00	81.00
456548	117.00	119.00	2.00	2	VO18163685 - Finalized	26/07/2018	0.001	0.050	10.80	124.50	8.96	1,500.0	0.023	333.00	0.28	124.00	91.00
456550	119.00	121.00	2.00	2	VO18163685 - Finalized	26/07/2018	0.001	0.050	12.20	135.00	9.47	1,440.0	0.044	336.00	0.32	155.00	95.00
456551	121.00	123.00	2.00	2	VO18163685 - Finalized	26/07/2018	0.001	0.030	22.30	66.90	8.10	1,460.0	0.016	267.00	0.28	162.50	84.00
456552	123.00	125.00	2.00	2	VO18163685 - Finalized	26/07/2018	0.001	0.050	24.90	82.70	7.08	1,330.0	0.029	244.00	0.27	133.00	73.00
456553	125.00	127.00	2.00	2	VO18163685 - Finalized	26/07/2018	0.001	0.080	14.70	273.00	9.81	1,880.0	0.133	302.00	1.88	110.00	108.00
456554	127.00	129.00	2.00	2	VO18163685 - Finalized	26/07/2018	0.001	0.050	1.50	207.00	9.30	3,580.0	0.121	220.00	2.60	55.60	79.00
456555	129.00	131.00	2.00	2	VO18163685 - Finalized	26/07/2018	0.001	0.060	5.60	124.50	10.40	1,860.0	0.031	430.00	0.45	58.30	83.00
456557	131.00	133.00	2.00	2	VO18163685 - Finalized	26/07/2018	0.001	0.050	5.50	111.00	9.44	2,150.0	0.023	384.00	0.33	53.90	46.00
456558	133.00	135.00	2.00	2	VO18163685 - Finalized	26/07/2018	0.001	0.020	4.80	40.90	8.76	1,420.0	0.009	307.00	3.11	56.20	29.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456559	135.00	137.00	2.00	2	VO18163685 - Finalized	26/07/2018	0.001	0.040	8.00	123.00	10.65	1,720.0	0.015	415.00	0.45	58.50	48.00
456560	137.00	139.00	2.00	2	VO18163685 - Finalized	26/07/2018	0.001	0.040	7.40	111.50	10.60	1,720.0	0.022	428.00	0.37	56.20	60.00
456561	139.00	141.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.004	0.060	3.60	178.50	10.00	1,560.0	0.025	411.00	0.49	47.80	62.00
456562	141.00	143.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.070	3.90	111.00	9.69	1,540.0	0.024	413.00	0.24	60.60	65.00
456563	143.00	145.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.060	16.40	120.00	8.81	1,400.0	0.028	332.00	0.21	131.50	89.00
456564	145.00	147.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.050	24.90	124.50	9.24	1,430.0	0.040	317.00	0.22	203.00	97.00
456565	147.00	149.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.060	21.20	144.00	9.09	1,390.0	0.037	314.00	0.21	201.00	96.00
456566	149.00	151.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.060	22.10	136.00	8.84	1,360.0	0.033	303.00	0.23	191.50	92.00
456567	151.00	153.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.060	37.70	141.50	8.67	1,340.0	0.041	293.00	0.16	202.00	90.00
456568	153.00	155.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.070	35.20	143.00	8.87	1,310.0	0.034	307.00	0.22	205.00	90.00
456570	155.00	157.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.050	30.70	124.00	8.69	1,340.0	0.020	300.00	0.20	205.00	91.00
456571	157.00	159.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.030	23.50	100.00	9.15	1,420.0	0.032	333.00	0.21	154.00	94.00
456572	159.00	161.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.090	15.40	53.60	9.07	1,410.0	0.023	344.00	0.13	126.00	76.00
456573	161.00	163.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.060	16.40	122.00	9.48	1,360.0	0.013	360.00	0.28	116.50	85.00
456574	163.00	165.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.040	7.70	133.00	9.51	2,290.0	0.011	395.00	0.29	86.40	80.00
456575	165.00	167.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.080	6.30	147.00	9.92	2,420.0	0.011	411.00	0.30	96.90	79.00
456577	167.00	169.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.003	0.200	29.50	637.00	8.56	2,560.0	0.031	299.00	0.67	86.90	65.00
456578	169.00	171.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.050	15.20	55.10	8.95	3,410.0	0.008	415.00	0.21	79.50	74.00
456579	171.00	173.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.090	11.60	91.70	9.38	1,810.0	0.025	371.00	0.23	94.60	77.00
456580	173.00	175.00	2.00	2	VO18163688 - Finalized	23/07/2018	0.001	0.120	15.80	104.00	9.56	1,600.0	0.018	370.00	0.21	96.90	80.00
456581	175.00	177.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.001	0.100	14.40	100.50	10.00	1,580.0	0.013	369.00	0.22	127.50	81.00
456582	177.00	179.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.001	0.090	14.40	81.40	9.81	1,540.0	0.010	366.00	0.21	111.50	81.00
456583	179.00	181.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.001	0.080	14.50	74.00	9.09	1,580.0	0.020	363.00	0.22	77.60	69.00



## Detailed Log Report

### Hole Number OSK-KAN-18-009

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-60.00 <b>Collar Az:</b> 250.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 368 094.00	<b>Length:</b>	301.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	June 28, 2018	<b>East:</b>	487 085.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	July 2, 2018	<b>Elev:</b>	136.00	<b>Casing Length:</b>	16.00 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	Y <b>Making Water:</b> N
<b>Logger 1:</b>	Cynthia Lee			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	PPR Anticline			<b>Claims Title:</b>	2099222 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	16.00	OVB, Overburden					
<b>Comments:</b>							

From	To	Lithology	Sample	From	To	Length	Comments
16.00	65.70	I3A, Gabbro	456584	16.00	18.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456585	18.00	20.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
<b>Comments:</b>			456586	20.00	22.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456587	22.00	24.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN; FLD 4
			456588	24.00	26.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN; FLD 4
			456590	26.00	28.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456591	28.00	30.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456592	30.00	32.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456593	32.00	34.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN; FLD 4
			456594	34.00	36.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN; FLD 4
			456595	36.00	38.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN; 90% I1N QZ AK 20 cm 25°
			456597	38.00	40.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456598	40.00	42.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456599	42.00	44.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456600	44.00	46.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456601	46.00	48.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456602	48.00	50.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456603	50.00	52.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456604	52.00	54.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456605	54.00	56.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456606	56.00	58.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456607	58.00	60.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456608	60.00	62.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456610	62.00	64.00	2.00	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN
			456611	64.00	65.70	1.70	I3A Chl-Ank; Ank-1; 3% Po DI PER 2% Po AL VN 0.5% Py AL VN

From	To	Lithology	Sample	From	To	Length	Comments	
65.70	97.15	S6, Mudrock	456612	65.70	67.00	1.30	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
			456613	67.00	69.00	2.00	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
<b>Comments:</b>			456614	69.00	71.00	2.00	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
			456615	71.00	73.00	2.00	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
			456617	73.00	75.00	2.00	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
			456618	75.00	77.00	2.00	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
			456619	77.00	79.00	2.00	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
			456620	79.00	81.00	2.00	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
			456621	81.00	83.00	2.00	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
			456622	83.00	85.00	2.00	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
			456623	85.00	87.00	2.00	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; 20% I1N QZ SR 5 cm; FLD 4	
			456624	87.00	89.00	2.00	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
			456625	89.00	91.00	2.00	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; 20% I1N QZ SR 10 cm; FLD 4	
			456626	91.00	93.00	2.00	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
			456627	93.00	94.50	1.50	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
			456628	94.50	96.00	1.50	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
			456630	96.00	97.15	1.15	S6 GP; Carb-1; 7% Po IG BD 7% Py SUB BD; FLD 4	
97.15	120.10		S6-S9, Mudrock-Iron formati	456631	97.15	98.00	0.85	S6-S9; Sil-1; 5% Py IG BD 5% Po IG BD
				456632	98.00	99.00	1.00	S6-S9; Sil-1; 5% Py IG BD 5% Po IG BD
<b>Comments:</b>				456633	99.00	100.00	1.00	S6-S9; Sil-1; 5% Py IG BD 5% Po IG BD
		456634		100.00	101.00	1.00	; Sil-1; 5% Py IG BD 5% Po IG BD	
		456635		101.00	102.00	1.00	S6-S9; Sil-1; 5% Py IG BD 5% Po IG BD	
		456637		102.00	103.00	1.00	S6-S9; Sil-1; 5% Py IG BD 5% Po IG BD	
		456638		103.00	104.00	1.00	S6-S9; Sil-1; 5% Py IG BD 5% Po IG BD	
		456639		104.00	105.00	1.00	S6-S9; Sil-1; 5% Py IG BD 5% Po IG BD	
		456640		105.00	106.00	1.00	S6-S9; Sil-1; 5% Py IG BD 5% Po IG BD	
		456641		106.00	107.00	1.00	; Sil-1; 5% Py IG BD 5% Po IG BD	
		456642		107.00	108.00	1.00	S6-S9	
		456643		108.00	109.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 3% Po AL VN 2% Py SUB VN	
		456644		109.00	110.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 3% Po AL VN 2% Py SUB VN	
		456645		110.00	111.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 3% Po AL VN 2% Py SUB VN	
		456646		111.00	112.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 3% Po AL VN 2% Py SUB VN	
		456647		112.00	113.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 3% Po AL VN 2% Py SUB VN	
		456648		113.00	114.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 3% Po AL VN 2% Py SUB VN	
		456650		114.00	115.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 3% Po AL VN 2% Py SUB VN	
		456651		115.00	116.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 3% Po AL VN 2% Py SUB VN	
		456652		116.00	117.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 3% Po AL VN 2% Py SUB VN	
		456653		117.00	118.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 10% Po IG BD	
		456654		118.00	119.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 10% Po IG BD	
		456655		119.00	120.10	1.10	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 10% Po IG BD	

From	To	Lithology	Sample	From	To	Length	Comments
120.10	121.80	S6, Mudrock	456657	120.10	121.80	1.70	S6b; Sil-2 Ser-3 Ank-2 BL-1; 1% Po IG BD
<b>Comments:</b>							
121.80	131.50	S6-S9, Mudrock-Iron formati	456658	121.80	123.00	1.20	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 4% Po IG BD 2% Py SUB VN 2% Po IG VN
<b>Comments:</b>							
			456659	123.00	124.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 4% Po IG BD 2% Py SUB VN 2% Po IG VN
			456660	124.00	125.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 4% Po IG BD 2% Py SUB VN 2% Po IG VN
			456661	125.00	126.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 4% Po IG BD 2% Py SUB VN 2% Po IG VN
			456662	126.00	127.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 4% Po IG BD 2% Py SUB VN 2% Po IG VN
			456663	127.00	128.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 8% Po IG BD 5% Py AL BD 2% Po AL VN 0.1% Sp AL VN
			456664	128.00	129.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 8% Po IG BD 5% Py AL BD 2% Po AL VN 0.1% Sp AL VN
			456665	129.00	130.00	1.00	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 8% Po IG BD 5% Py AL BD 2% Po AL VN 0.1% Sp AL VN
			456666	130.00	130.70	0.70	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 8% Po IG BD 5% Py AL BD 2% Po AL VN 0.1% Sp AL VN; 40% I1N QZ SR 15 cm
			456667	130.70	131.50	0.80	S6-S9; Sil-2 Ser-3 Ank-2 BL-1; 8% Po IG BD 5% Py AL BD 2% Po AL VN 0.1% Sp AL VN; 40% I1N QZ SR 15 cm
131.50	146.10	S6, Mudrock	456668	131.50	133.00	1.50	S6b; Carb-1; 4% Po IG BD 4% Py SUB BD
<b>Comments:</b>							
			456670	133.00	135.00	2.00	S6b; Carb-1; 4% Po IG BD 4% Py SUB BD
			456671	135.00	137.00	2.00	S6b; Carb-1; 4% Po IG BD 4% Py SUB BD
			456672	137.00	139.00	2.00	S6b; Carb-1; 4% Po IG BD 4% Py SUB BD
			456673	139.00	141.00	2.00	S6b; Carb-1; 4% Po IG BD 4% Py SUB BD
			456674	141.00	143.00	2.00	S6b
			456675	143.00	145.00	2.00	S6b; Sil-4; 20% Po SSM BD 1% Cp AL VN
			456677	145.00	146.10	1.10	S6b; Sil-4; 20% Po SSM BD 1% Cp AL VN
146.10	147.30	S10, Chert	456678	146.10	147.30	1.20	S10D; Sil-2; 5% Po DI PER
<b>Comments:</b>							

From	To	Lithology	Sample	From	To	Length	Comments	
147.30	159.55	S9, Iron formation	456679	147.30	148.50	1.20	S9C Sid; Sil-2; 1% Po DI PER	
			456680	148.50	149.50	1.00	S9C Sid; Sil-2; 1% Po DI PER	
			<b>Comments:</b>	456681	149.50	150.50	1.00	S9C Sid; Sil-2; 1% Po DI PER
			456682	150.50	151.50	1.00	S9C Sid; Sil-2; 1% Po DI PER	
			456683	151.50	152.50	1.00	S9C Sid; Sil-2; 1% Po DI PER	
			456684	152.50	153.50	1.00	S9C Sid; Sil-2; 1% Po DI PER	
			456685	153.50	154.50	1.00	S9C Sid; Sil-2; 1% Po DI PER	
			456686	154.50	155.50	1.00	S9C Sid; Sil-2; 1% Po DI PER	
			456687	155.50	156.50	1.00	S9C Sid; Sil-2; 1% Po DI PER	
			456688	156.50	157.50	1.00	S9C Sid; Sil-2; 1% Po DI PER	
			456690	157.50	158.50	1.00	S9C Sid; Sil-2; 1% Po DI PER	
456691	158.50	159.55	1.05	S9C Sid; Sil-2; 1% Po DI PER				
159.55	176.85	S6, Mudrock	456692	159.55	161.50	1.95	S6 GP; Sil-1; 3% Py EUH PER	
			456693	161.50	163.00	1.50	S6 GP; Carb-1 Sil-1; 3% Po IG BD	
			<b>Comments:</b>	456694	163.00	165.00	2.00	S6 GP; Carb-1 Sil-1; 3% Po IG BD
			456695	165.00	167.00	2.00	S6 GP; Carb-1 Sil-1; 3% Po IG BD	
			456697	167.00	169.00	2.00	S6 GP; Carb-1 Sil-1; 3% Po IG BD	
			456698	169.00	171.00	2.00	S9E; Carb-1 Sil-1; 25% Py DI BDPo AL VN	
			456699	171.00	173.00	2.00	S6 GP; Carb-1 Sil-1; 3% Po IG BD	
			456700	173.00	175.00	2.00	S6 GP; Carb-1 Sil-1; 3% Po IG BD	
			456701	175.00	176.85	1.85	S6 GP; Carb-1 Sil-1; 3% Po IG BD	
176.85	196.00	S9, Iron formation	456702	176.85	178.90	2.05	S10D; Sil-1 Ank-2; 5% Po DI PER	
			456703	178.90	180.00	1.10	S9C Sid; Sil-1 Ank-2; 0.5% Po IG VN	
			<b>Comments:</b>	456704	180.00	181.00	1.00	S9C Sid; Sil-1 Ank-2; 0.5% Po IG VN
			456705	181.00	182.00	1.00	S9C Sid; Sil-1 Ank-2; 0.5% Po IG VN	
			456706	182.00	183.00	1.00	S9C Sid; Sil-1 Ank-2; 0.5% Po IG VN	
			456707	183.00	184.00	1.00	S9C Sid; Sil-1 Ank-2; 0.5% Po IG VN	
			456708	184.00	185.00	1.00	S9C Sid; Ank-4 Chl-4 Sil-4; 3% Po DI PER; 25% I1N QZ CL 20 cm 15°	
			456710	185.00	186.00	1.00	S9C Sid; Ank-4 Chl-4 Sil-4; 3% Po DI PER; 25% I1N QZ CL 20 cm 15°	
			456711	186.00	187.00	1.00	S9C Sid; Ank-4 Chl-4 Sil-4; 3% Po DI PER; 25% I1N QZ CL 20 cm 15°	
			456712	187.00	188.00	1.00	S9C Sid; Ank-4 Chl-4 Sil-4; 3% Po DI PER; 25% I1N QZ CL 20 cm 15°	
			456713	188.00	189.00	1.00	S9C Sid; Ank-4 Chl-4 Sil-4; 3% Po DI PER; 25% I1N QZ CL 20 cm 15°	
			456714	189.00	190.00	1.00	S9C Sid; Ank-4 Chl-4 Sil-4; 3% Po DI PER; 25% I1N QZ CL 20 cm 15°	
			456715	190.00	191.00	1.00	S9C Sid; Ank-4 Chl-4 Sil-4; 3% Po DI PER; 25% I1N QZ CL 20 cm 15°	
			456717	191.00	192.00	1.00	S9C Sid; Ank-4 Chl-4 Sil-4; 3% Po DI PER; 25% I1N QZ CL 20 cm 15°	
456718	192.00	193.00	1.00	S9C Sid; Ank-4 Chl-4 Sil-4; 3% Po DI PER; 25% I1N QZ CL 20 cm 15°				
456719	193.00	194.10	1.10	S9C Sid; Ank-4 Chl-4 Sil-4; 0.01% Vg DI VN 3% Po DI PER; 25% I1N QZ CL 20 cm 15°				
456720	194.10	195.00	0.90	S9C Sid; 0.5% Po DI PER				
456721	195.00	196.00	1.00	S9C Sid; Sil-1; 0.5% Po DI PER				



From	To	Lithology	Sample	From	To	Length	Comments
196.00	199.80	I3A, Gabbro	456722	196.00	198.00	2.00	I3A Chl-Ank; Ank-2; 0.1% Po DI CTC
			456723	198.00	199.80	1.80	I3A Chl-Ank
<b>Comments:</b>							
199.80	227.60	S6, Mudrock	456724	199.80	201.80	2.00	S6b; Carb-1 Sil-1; 10% Po IG BD 5% Py SUB VN
			456725	201.80	203.80	2.00	S6 GP; Carb-1 Sil-1; 10% Po IG BD 5% Py SUB VN
			456726	203.80	205.80	2.00	S6 GP; Carb-1 Sil-1; 10% Po IG BD 5% Py SUB VN
			456727	205.80	207.80	2.00	S6 GP; Carb-1 Sil-1; 10% Po IG BD 5% Py SUB VN
			456728	207.80	209.80	2.00	S6 GP; Carb-1 Sil-1; 10% Po IG BD 5% Py SUB VN
			456730	209.80	211.80	2.00	S6 GP; Carb-1 Sil-1; 10% Po IG BD 5% Py SUB VN
			456731	211.80	213.80	2.00	S6 GP; Carb-1 Sil-1; 10% Po IG BD 5% Py SUB VN
			456732	213.80	215.80	2.00	S6 GP; Carb-1 Sil-1; 10% Po IG BD 5% Py SUB VN
			456733	215.80	217.80	2.00	S6 GP; Carb-1 Sil-1; 10% Po IG BD 5% Py SUB VN
			456734	217.80	219.50	1.70	; 5% Po DI PER 3% Py SUB PER
			456735	219.50	221.50	2.00	S9E; Carb-1 Sil-1; 10% Po IG BD 5% Py SUB VN
			456737	221.50	223.50	2.00	S9E; Carb-1 Sil-1; 10% Po IG BD 5% Py SUB VN
456738	223.50	225.50	2.00	S9E; Carb-1 Sil-1; 10% Po IG BD 5% Py SUB VN			
456739	225.50	227.60	2.10	; Carb-1 Sil-1; 10% Po IG BD 5% Py SUB VN			
227.60	235.00	S9, Iron formation	456740	227.60	228.50	0.90	S9C Ank; Ank-2 Sil-2; 5% Po DI SCH
			456741	228.50	229.50	1.00	S9C Ank; Ank-2 Sil-2; 5% Po DI SCH
			456742	229.50	230.40	0.90	S9C Ank; Ank-2 Sil-2; 5% Po DI SCH
			456743	230.40	231.40	1.00	S9C Ank; Ank-2 Sil-2; 5% Po DI SCH
			456744	231.40	232.40	1.00	S9C Ank; Ank-2 Sil-2; 5% Po DI SCH
			456745	232.40	233.40	1.00	S9C Ank; Ank-2 Sil-2; 5% Po DI SCH
			456746	233.40	234.40	1.00	S9C Ank; Ank-2 Sil-2; 5% Po DI SCH
			456747	234.40	235.00	0.60	S9C Ank; Ank-2 Sil-2; 5% Po DI SCH
235.00	241.90	S6, Mudrock	456748	235.00	237.00	2.00	S6 GP; Sil-1 Carb-1; 8% Po IG VN 3% Py SUB VN
			456750	237.00	239.00	2.00	S6 GP; Sil-1 Carb-1; 8% Po IG VN 3% Py SUB VN
			456751	239.00	241.00	2.00	S6 GP; Sil-1 Carb-1; 8% Po IG VN 3% Py SUB VN
			456752	241.00	241.90	0.90	S6 GP; Sil-1 Carb-1; 8% Po IG VN 3% Py SUB VN
241.90	245.50	S9, Iron formation	456753	241.90	243.00	1.10	S9C; Ser-3 Sil-2 Chl-2; 2% Po IG VN 4% Po DI PER
			456754	243.00	244.00	1.00	S9C; Ser-3 Sil-2 Chl-2; 2% Po IG VN 4% Po DI PER
			456755	244.00	245.50	1.50	; 2% Py SUB VN 3% Po IG VN
245.50	253.60	I3A, Gabbro	456757	245.50	247.00	1.50	I3A Chl-Ank; Chl-4 Ank-3; 3% Po DI PER 3% Po IG VN
			456758	247.00	249.00	2.00	I3A Chl-Ank; Chl-4 Ank-3; 3% Po DI PER 3% Po IG VN
			456759	249.00	251.00	2.00	I3A Chl-Ank; 3% Po DI PER 3% Po IG VN
			456760	251.00	252.50	1.50	I3A Chl-Ank; Ank-2 Chl-2; 3% Po DI PER 3% Po IG VN
			456761	252.50	253.60	1.10	I3A Chl-Ank; Ank-2 Chl-2; 3% Po DI PER 3% Po IG VN

From	To	Lithology	Sample	From	To	Length	Comments		
253.60	258.30	S6, Mudrock	456762	253.60	255.00	1.40	S6 GP; Carb-1; 5% Po IG VN 3% Py SUB VN		
			456763	255.00	257.40	2.40	S6 GP; Carb-1; 5% Po IG VN 3% Py SUB VN		
			<b>Comments:</b>		456764	257.40	258.30	0.90	S6 GP; Carb-1; 5% Po IG VN 3% Py SUB VN
			456765	258.30	259.00	0.70	S9C; Ser-5 BL-2 Ank-3; 90% I1N QZ SR 100 cm		
258.30	261.70	S9, Iron formation	456766	259.00	260.00	1.00	S9C; Ser-5 BL-2 Ank-3; 4% Po DI VN; 90% I1N QZ SR 100 cm		
			<b>Comments:</b>		456767	260.00	261.00	1.00	S9C; Ser-5 BL-2 Ank-3
			456768	261.00	261.70	0.70	S9C; Ser-5 BL-2 Ank-3; 5% Po DI PER 3% Py SUB VN		
			456770	261.70	263.00	1.30	S6 GP; Carb-1; 5% Po VN CTC 5% Py SUB BD		
261.70	267.90	S6, Mudrock	456771	263.00	265.00	2.00	S6 GP; Carb-1; 5% Po VN CTC 5% Py SUB BD		
			<b>Comments:</b>		456772	265.00	267.00	2.00	S6 GP; Carb-1; 5% Po VN CTC 5% Py SUB BD
			456773	267.00	267.90	0.90	S6 GP; Carb-1; 5% Po VN CTC 5% Py SUB BD		
			456774	267.90	269.00	1.10	S9C; BL-2 Ank-3 Sil-4; 3% Po IG VN		
267.90	274.10	S9, Iron formation	456775	269.00	270.00	1.00	S9C; BL-2 Ank-3 Sil-4; 3% Po IG VN		
			<b>Comments:</b>		456777	270.00	271.00	1.00	S9C; BL-2 Ank-3 Sil-4; 3% Po IG VN
			456778	271.00	272.00	1.00	S10B; BL-2 Ank-3 Sil-4		
			456779	272.00	273.00	1.00	S10B; BL-2 Ank-3 Sil-4; 2% Po DI BD 7% Po DI PER 0.5% Cp DI VN 3% Py SUB VN		
			456780	273.00	274.10	1.10	S10B; BL-2 Ank-3 Sil-4; 2% Po DI BD 7% Po DI PER 0.5% Cp DI VN 3% Py SUB VN; 25% I1N QZ SR 10 cm		
			456781	274.10	276.00	1.90	S6 GP; Carb-1; 8% Po IG BD 5% Py SUB BD		
274.10	301.00	S6, Mudrock	456782	276.00	278.00	2.00	S6 GP; Carb-1; 8% Po IG BD 5% Py SUB BD		
			<b>Comments:</b>		456783	278.00	280.00	2.00	S6 GP; Carb-1; 8% Po IG BD 5% Py SUB BD
			456784	280.00	282.00	2.00	S6 GP; Carb-1; 8% Po IG BD 5% Py SUB BD		
			456785	282.00	284.00	2.00	S6 GP; Carb-1; 8% Po IG BD 5% Py SUB BD		
			456786	284.00	286.00	2.00	S6 GP; Carb-1; 8% Po IG BD 5% Py SUB BD		
			456787	286.00	288.00	2.00	S6 GP; Carb-1; 8% Po IG BD 5% Py SUB BD		
			456788	288.00	290.00	2.00	S6 GP; Carb-1; 8% Po IG BD 5% Py SUB BD		
			456790	290.00	292.00	2.00	S6 GP; Carb-1; 8% Po IG BD 5% Py SUB BD		
			456791	292.00	294.00	2.00	S6 GP; Carb-1; 8% Po IG BD 5% Py SUB BD		
			456792	294.00	296.00	2.00	S6 GP; Carb-1; 8% Po IG BD 5% Py SUB BD		
			456793	296.00	298.00	2.00	S6 GP; Carb-1; 8% Po IG BD 5% Py SUB BD		
			456794	298.00	299.50	1.50	S6 GP; Carb-1; 8% Po IG BD 5% Py SUB BD		
			456795	299.50	301.00	1.50	S6 GP; Carb-1; 8% Po IG BD 5% Py SUB BD		

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
19.00	257.60	-59.50	FM	Test NON-OK	
21.00	261.20	-59.40	FS	Test OK-REJECT	
22.00	260.40	-59.30	FM	Test NON-OK	
25.00	257.30	-59.40	FM	Test NON-OK	
28.00	259.00	-59.20	FM	Test NON-OK	
31.00	257.60	-59.30	FM	Test NON-OK	
34.00	261.50	-59.40	FM	Test OK-Accept	
37.00	272.00	-59.40	FM	Test NON-OK	
40.00	260.50	-59.10	FM	Test OK-Accept	
43.00	260.60	-59.20	FM	Test OK-Accept	
46.00	257.50	-59.30	FM	Test NON-OK	
49.00	259.10	-59.20	FM	Test NON-OK	
52.00	250.00	-59.30	FM	Test NON-OK	
55.00	259.90	-59.40	FM	Test NON-OK	
58.00	250.30	-59.20	FM	Test NON-OK	
61.00	242.30	-59.30	FM	Test NON-OK	
64.00	255.40	-59.40	FM	Test NON-OK	
67.00	263.40	-59.40	FM	Test NON-OK	
70.00	255.00	-59.30	FM	Test NON-OK	
73.00	262.50	-59.10	FM	Test NON-OK	
73.00	260.50	-59.90	FS	Test OK-REJECT	
76.00	260.60	-59.30	FM	Test OK-Accept	
79.00	262.00	-59.00	FM	Test OK-Accept	
82.00	261.80	-59.20	FM	Test OK-Accept	
85.00	261.90	-59.10	FM	Test OK-Accept	
88.00	261.10	-59.20	FM	Test OK-Accept	
91.00	262.30	-59.00	FM	Test OK-Accept	
94.00	261.90	-59.10	FM	Test OK-Accept	
97.00	250.60	-59.10	FM	Test NON-OK	
100.00	259.80	-59.10	FM	Test NON-OK	
103.00	260.90	-59.10	FM	Test OK-Accept	
106.00	260.90	-59.10	FM	Test OK-Accept	
109.00	261.40	-59.30	FM	Test OK-Accept	
112.00	261.60	-59.20	FM	Test OK-Accept	
115.00	264.00	-59.00	FM	Test NON-OK	
118.00	262.20	-58.90	FM	Test OK-Accept	
121.00	261.80	-59.00	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
124.00	262.10	-58.90	FM	Test OK-Accept	
124.00	263.00	-58.80	FS	Test OK-REJECT	
127.00	261.80	-58.90	FM	Test OK-Accept	
130.00	261.80	-58.90	FM	Test OK-Accept	
133.00	262.90	-58.80	FM	Test OK-Accept	
136.00	262.40	-58.60	FM	Test OK-Accept	
139.00	261.10	-58.90	FM	Test OK-Accept	
142.00	261.10	-58.80	FM	Test OK-Accept	
145.00	262.00	-58.90	FM	Test OK-Accept	
148.00	261.50	-58.80	FM	Test OK-Accept	
151.00	262.80	-58.80	FM	Test OK-Accept	
154.00	262.10	-58.90	FM	Test OK-Accept	
157.00	261.90	-58.90	FM	Test OK-Accept	
160.00	261.60	-58.70	FM	Test OK-Accept	
163.00	262.50	-58.70	FM	Test OK-Accept	
166.00	264.10	-58.70	FM	Test NON-OK	
169.00	262.60	-58.70	FM	Test OK-Accept	
172.00	261.40	-58.80	FM	Test OK-Accept	
175.00	261.50	-58.80	FM	Test OK-Accept	
175.00	263.40	-58.70	FS	Test OK-REJECT	
178.00	262.50	-58.70	FM	Test OK-Accept	
181.00	262.50	-58.70	FM	Test OK-Accept	
184.00	262.10	-58.80	FM	Test OK-Accept	
187.00	261.20	-58.80	FM	Test OK-Accept	
190.00	262.50	-58.80	FM	Test OK-Accept	
193.00	262.00	-58.80	FM	Test OK-Accept	
196.00	261.10	-58.80	FM	Test OK-Accept	
199.00	262.40	-58.60	FM	Test OK-Accept	
202.00	261.60	-58.80	FM	Test OK-Accept	
205.00	262.70	-58.60	FM	Test OK-Accept	
208.00	261.50	-58.80	FM	Test OK-Accept	
211.00	262.10	-58.80	FM	Test OK-Accept	
214.00	262.40	-58.70	FM	Test OK-Accept	
217.00	262.00	-58.70	FM	Test OK-Accept	
220.00	262.40	-58.60	FM	Test OK-Accept	
223.00	262.10	-58.70	FM	Test OK-Accept	
226.00	261.90	-58.80	FM	Test OK-Accept	
229.00	262.50	-58.70	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
232.00	261.80	-58.80	FM	Test OK-Accept	
235.00	261.80	-58.80	FM	Test OK-Accept	
238.00	262.10	-58.70	FM	Test OK-Accept	
241.00	261.50	-58.70	FM	Test OK-Accept	
244.00	261.90	-58.60	FM	Test OK-Accept	
247.00	262.60	-58.50	FM	Test OK-Accept	
250.00	261.90	-58.60	FM	Test OK-Accept	
253.00	262.00	-58.60	FM	Test OK-Accept	
256.00	260.60	-58.70	FM	Test OK-Accept	
259.00	261.70	-58.70	FM	Test OK-Accept	
262.00	261.80	-58.60	FM	Test OK-Accept	
265.00	261.50	-58.70	FM	Test OK-Accept	
268.00	261.60	-58.60	FM	Test OK-Accept	
271.00	262.30	-58.50	FM	Test OK-Accept	
274.00	260.70	-58.60	FM	Test OK-Accept	
277.00	261.60	-58.40	FM	Test OK-Accept	
280.00	260.30	-58.60	FM	Test OK-Accept	
283.00	260.90	-58.50	FM	Test OK-Accept	
286.00	261.70	-58.40	FM	Test OK-Accept	
289.00	262.00	-58.30	FM	Test OK-Accept	
292.00	261.60	-58.30	FM	Test OK-Accept	
295.00	261.90	-58.20	FM	Test OK-Accept	
298.00	258.30	-58.30	FM	Test NON-OK	
301.00	260.30	-58.20	FM	Test OK-Accept	

Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
16.00	65.70	I3A	CS	HK			I3A Chl-Ank			GM			FG				Schistous with almost bedding like appearance. 5% mm ankerite phenocrystals. Contains 2-3% decimetric graphitic silicified black shale intervals.
65.70	97.15	S6	BD	IU			S6 GP			BK			Aph		58.00	DIF	Lower contact with underlying shaley iron formation is transitional, with intervals of black shale occurring within the underlying unit. Seems to be folded, so black shale coming in and out of the shaley iron formation from 97.15 to 106.3 meters.
97.15	100.50	S6-S9	BD	HK			S6-S9			BK			Aph				Interlayered black shale and iron formation, seems to be a transitional zone, folded. Seems to have more % of black shale than from 106.7 metres and lower.
100.50	106.70	S6-S9	BX	HK			S6-S9			BK			Aph				Interlayered black shale and iron formation, seems to be a transitional zone, folded and brecciated. Seems to have more % of black shale than from 106.7 metres and lower.
106.70	120.10	S6-S9	BD	RU			S6-S9			BK			Aph				Strong banded texture with alternating centimetric layers of black shale and iron formation. The black shale layers contains tension veinlets (1-2mm) perpendicular to banding/bedding. Presence of elongated fragments of iron formation/quartz veins. Presence of 2-3% decimetric intervals with weak bleaching.
120.10	121.80	S6	BD	HJ			S6b			BK			Aph				Strong banded texture with 3-5% mm to cm elongated and stretched fragments of iron formation. Maybe an internal black shale.
121.80	131.50	S6-S9	BD	RU			S6-S9			BK			Aph				Strong banded texture with alternating centimetric layers of black shale and iron formation. The black shale layers contains tension veinlets (1-2mm) perpendicular to banding/bedding. Presence of elongated fragments of iron formation/quartz veins. Presence of 2-3% decimetric intervals with weak bleaching.
131.50	146.10	S6	BD	HJ			S6b			BK			Aph		40.00	DIF	
146.10	147.30	S10	BX	MA			S10D			GL			FG				BC mineralogy: quartz-carbonate-pyrrhotite. contains centimetric rounded and stretched fragments of (iron formation??)

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments	
147.30	159.55	S9	RU	MA			S9C Sid	5.00	Silica	GL	BG	3	FG		50.00	DIF	high Fe values with the XRF (35%!); seems to be silicified, very hard. contains 5-8% centimetric fragments of quartz veins or chert bands.	
159.55	161.50	S6	BD	HJ			S6 GP			GD		3	Aph			VN		
161.50	169.00	S6	BD	HK			S6 GP			BK		2	Aph				DIF	
169.00	171.00	S6	BD				S9E			BN	BK	2	FG				massive sulfide interval???	
171.00	176.85	S6	BD	IU			S6 GP			BK		2	Aph		35.00		SHP	
176.85	178.90	S9	BD	MA			S10D			GL		3	FG					
178.90	196.00	S9	BD				S9C Sid			GM		3	FG		66.00		SHP	
196.00	199.80	I3A	CS	PI			I3A Chl-Ank			GM	VM	2	FG		65.00		DIF	Small interval of gabbro/basalt, with contacts that are subconcordant to S0/S1.
199.80	201.80	S6	CS	RU			S6b			GM	GL	2	Aph		80.00		DIF	transitional from gabbro/basalt to black shale. banding texture from alternance between I3/V3 to S6
201.80	218.70	S6	BD	HK	IU		S6 GP			BK		1	Aph		70.00		SHP	
218.70	219.50	S6	BD	HK			S10D			GL	GM	2	FG				SHP	
219.50	226.20	S6	BD				S9E			BK		1	Aph					
226.20	226.55	S6	BD				S10D			GL		2	FG					
226.55	227.60	S6	BD				S6 GP			BK		1	Aph		75.00		SHP	
227.60	235.00	S9	BD	BX			S9C Ank	7.00	Carbonate	GM		2	FG		62.00		SHP	dm intervals with breccification
235.00	241.90	S6	BD				S6 GP			BK		1	Aph					
241.90	244.60	S9	BD	BX			S9C			GM		2	FG		61.00		DIF	
244.60	245.50	S9	HK	BD	PQ		S6b	20.00	Carbonate	GD	BK	2	Aph		65.00		DIF	5% porphyroblastic rounded mineral, maybe cordierite? or andalousite?
245.50	253.60	I3A	CS	HK			I3A Chl-Ank			GM	GN	2	FG		74.00		DIF	

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
253.60	258.30	S6	BD				S6 GP			BK		1	Aph		68.00	SHP	
258.30	261.70	S9	HK	IU			S9C	30.00	Carbonate	GL	GN	2	FG		75.00	DIF	30% sulfidized chert bands, injected with 40% quartz-sericite-chlorite-pyrrhotite veins.
261.70	267.90	S6	HJ	BD			S6 GP			BK		1	Aph		86.00	SHP	
267.90	271.00	S9	HK	BX			S9C			GM		3	FG		68.00	SHP	
271.00	274.10	S9	BD	BX			S10B			BG	GM	3	FG			BRE	regular bedded texture. brecciated with pervasive silicification at lower contact with underlying black shale.
274.10	301.00	S6	BD	IU	HK		S6 GP			BK		1	Aph			NA	



**Mineralization Data**

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
16.00	65.70		Po	3.00	DI	PER		Po	2.00	AL	VN	very fine <1mm to mm disseminated pyrrhotite throughout, pyrrhotite and pyrite blebs in quartz-ankerite veins.	Py	0.50	AL	VN	
65.70	97.15		Po	7.00	IG	BD		Py	7.00	SUB	BD	subhedral mm pyrite distributed along S0 and also stringer like pyrite controlled by S0					
97.15	107.70		Py	5.00	IG	BD		Po	5.00	IG	BD						
107.70	117.00		Po	3.00	AL	VN		Py	2.00	SUB	VN						
117.00	120.10		Po	10.00	IG	BD											
120.10	121.80		Po	1.00	IG	BD											
121.80	127.00		Po	4.00	IG	BD		Py	2.00	SUB	VN		Po	2.00	IG	VN	
127.00	131.50		Po	8.00	IG	BD		Py	5.00	AL	BD		Po	2.00	AL	VN	
131.50	142.00		Po	4.00	IG	BD		Py	4.00	SUB	BD						
142.00	146.10		Po	20.00	SSM	BD		Cp	1.00	AL	VN	semi massive interval with (non magnetic??) pyrrhotite (maybe arsenian pyrite??), 1% chalcopyrite in blebs associated to veining. interval is silicified with presence of rounded silica fragments.					
146.10	147.30		Po	5.00	DI	PER						fine <1mm pyrrhotite disseminated throughout interval. also some blebs of pyrrhotite looks like pyrrhotized(?) fragments					
147.30	159.55		Po	1.00	DI	PER						very very fine <1mm pyrrhotite, disseminated throughout.					
159.55	161.50		Py	3.00	EUH	PER						disseminated mm euhedral grains of pyrite, throughout host rock, seems to be associated with contact, or with vein at 161 to 161.5 meters.					
161.50	169.00		Po	3.00	IG	BD											
169.00	171.00		Py	25.00	DI	BD		Po		AL	VN						
171.00	176.85		Po	3.00	IG	BD											
176.85	178.90		Po	5.00	DI	PER						fine disseminated pyrrhotite throughout interval, <1mm. also presence of mm to cm fragments/breccia fragments that look pyrrhotized(??)					
178.90	184.00		Po	0.50	IG	VN						trace to 1% pyrrhotite in small mm clusters/interstitial blebs inside mm to <1mm veinlets. almost stringer-like.					

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3	
184.00	193.00		Po	3.00	DI	PER	3% disseminated mm to <1mm fine pyrrhotite associated with pervasive chl at vn selvage; also mm to cm clusters of pyrrhotite in qz-ak-cl veins.											
193.00	194.10		Vg	0.01	DI	VN		Po	3.00	DI	PER	3% disseminated mm to <1mm fine pyrrhotite associated with pervasive chl at vn selvage; also mm to cm clusters of pyrrhotite in qz-ak-cl veins.						
194.10	196.00		Po	0.50	DI	PER						trace to 1% disseminated pyrrhotite, especially at lower contact with underlying gabbro/basalt						
196.00	199.75		Po	0.10	DI	CTC						trace disseminated pyrrhotite at contact with underlying black shale						
199.75	218.70		Po	10.00	IG	BD		Py	5.00	SUB	VN							
218.70	219.50		Po	5.00	DI	PER		Py	3.00	SUB	PER	disseminated pyrrhotite throughout sulfidized chert						
219.50	227.60		Po	10.00	IG	BD		Py	5.00	SUB	VN							
227.60	235.00		Po	5.00	DI	SCH												
235.00	241.90		Po	8.00	IG	VN		Py	3.00	SUB	VN	interstitial pyrrhotite around subeuhedral pyrite, pyrrhotite in mm veinlet subconcordant to bedding/main schisto						
241.90	244.50		Po	2.00	IG	VN		Po	4.00	DI	PER							
244.50	245.50		Py	2.00	SUB	VN		Po	3.00	IG	VN	pyrite-pyrrhotite veinlets are not concordant to schistosity (S2)						
245.50	253.60		Po	3.00	DI	PER		Po	3.00	IG	VN							
253.60	258.60		Po	5.00	IG	VN		Py	3.00	SUB	VN							
258.60	260.50		Po	4.00	DI	VN												
260.50	261.70		Po	5.00	DI	PER		Py	3.00	SUB	VN	disseminated pyrrhotite in <1mm grains in sulfidized chert unit; interstitial pyrrhotite in mm veinlets, with subeuhedral pyrite grains.						
261.70	267.90		Po	5.00	VN	CTC		Py	5.00	SUB	BD	interstitial pyrrhotite in veinlets, following bedding? mostly found at upper and lower contacts; subhedral pyrite occurring as veinlets/lamine following schistosity/bedding.						
267.90	271.50		Po	3.00	IG	VN												
271.50	274.10		Po	2.00	DI	BD		Po	7.00	DI	PER		Cp	0.50	DI	VN		
274.10	301.00		Po	8.00	IG	BD		Py	5.00	SUB	BD							

## Alteration Data

From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
16.00	65.70	Ank	1	DI							
65.70	97.15	Carb	1	VN							
97.15	107.70	Sil	1	VN							
107.70	131.50	Sil	2	PEN	Ser	3	VN	Ank	2	VN	2-3% of decimetric intervals with weak bleaching (ankeritization, silicification and sericitization)
131.50	142.00	Carb	1	VN							
142.00	146.10	Sil	4	VN							moderate to strong silicification, seems to be vein controlled, associated with massive sulfide interval, presence of 5-7% sub rounded silica fragments in a pyrrhotite/pyrite matrix
146.10	147.30	Sil	2	PEN							
147.30	159.55	Sil	2	RU							weak to moderate silicification in bands and diffusing from the bands penetratively into iron formation.
159.55	161.50	Sil	1	CTC							penetrative silicification diffusing from contact with overlying iron formation
161.50	176.85	Carb	1	VN	Sil	1	VN				
176.85	184.00	Sil	1	PEN	Ank	2	DI				
184.00	194.50	Ank	4	VN	Chl	4	VN	Sil	4	VN	alteration in quartz-ankerite-chlorite veining associated to the visible gold.
194.50	196.00	Sil	1	PEN							
196.00	199.75	Ank	2	DI							
199.75	218.70	Carb	1	VN	Sil	1	VN				
218.70	219.50	Sil	2	VN							
219.50	227.60	Carb	1	VN	Sil	1	VN				
227.60	235.00	Ank	2	VN	Sil	2	VN				
235.00	241.90	Sil	1	CTC	Carb	1	VN				
241.90	244.60	Ser	3	VN	Sil	2	VN	Chl	2	VN	
244.60	245.50	Carb	1	CTC							
245.50	250.00	Chl	4	CTC	Ank	3	CTC				
250.00	253.60	Ank	2	DI	Chl	2	VN				
253.60	258.30	Carb	1	VN							
258.30	261.70	Ser	5	VN	BL	2	PEN	Ank	3	DI	
261.70	267.90	Carb	1	VN							
267.90	274.10	BL	2	PEN	Ank	3	VN	Sil	4	VN	
274.10	301.00	Carb	1	VN							

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
36.40	37.00	90.00	20.00	I1N	UNK	Vein >5cm	QZ	95.00	AK	5.00					25.00	Po	3.00	Py	1.00	Trace chalcopyrite
85.30	86.30	20.00	5.00	I1N	UNK	Vein >5cm	QZ	95.00	SR	2.00	AK	3.00				Po	4.00	Py	2.00	
88.70	91.00	20.00	10.00	I1N	UNK	Vein >5cm	QZ	95.00	SR	2.00	AK	3.00				Po	4.00	Pd	2.00	
130.00	131.50	40.00	15.00	I1N	UNK	Vein >5cm	QZ	85.00	SR	10.00	AK	5.00								
184.00	194.50	25.00	20.00	I1N	UNK	Vein >5cm	QZ	85.00	CL	5.00	AK	10.00			15.00	Po	5.00	Au	0.01	Trace to 1% sericite as well. Visible gold at 139.9metres
258.30	260.50	90.00	100.00	I1N	UNK	Vein >5cm	QZ	70.00	SR	12.00	CL	7.00				Po	4.00	Py	1.00	
273.00	274.10	25.00	10.00	I1N	UNK	Vein >5cm	QZ	85.00	SR	5.00	CL	5.00				Po	5.00	Cp	0.10	

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
20.10	27.00	FLD	4		tight, parasitic folding
31.00	37.00	FLD	4	10.00	very low core angle folding, bedding/schistosity almost parallel to drillhole
65.70	97.15	FLD	4		well deformed
166.30	167.70	FLD	5		M-folding in pyritous black shale
217.50	218.10	FLD	3		Tight isoclinal folding in pyritous black shale

## Oriented Structure Data

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
18.40	S0		47.00	324.00	258.07	-59.47	-69.54	322.73	0.00	52.73			
26.80	S0		23.00										
33.40	S0		19.00	90.00	268.50	-59.40	-73.73	78.56	0.00	168.56			
33.60	VN		32.00	65.00	270.25	-59.40	-74.12	53.29	0.00	143.29			
37.90	S0		36.00										
39.00	S0		45.00										
40.90	S0		70.00										
43.80			60.00	344.00	258.83	-59.22	-60.13	339.69	0.00	69.69	83.00	FAXIS	
43.85	AxialPlane		60.00	344.00	258.83	-59.22	-60.13	339.69	0.00	69.69			
44.30	AxialPlane		66.00	328.00	257.58	-59.22	-52.53	331.83	0.00	61.83			
44.35			66.00	328.00	257.58	-59.22	-52.53	331.83	0.00	61.83	100.00	FAXIS	
47.10	S0		42.00										
49.60	VN		75.00	298.00	256.70	-59.33	-39.75	325.76	0.00	55.76			
50.20	S0		54.00	330.00	255.10	-59.30	-64.17	326.04	0.00	56.04			
50.80	S0		55.00	90.00	253.50	-59.27	-45.24	37.38	0.00	127.38			
56.40	S0		46.00	250.00	253.22	-59.38	-42.26	267.15	0.00	357.15			
63.20	S0		59.00	150.00	260.00	-59.17	-15.28	67.66	0.00	157.66			
65.70	CNT		65.00										
70.00	S0		68.00	156.00	261.93	-59.07	-13.78	31.70	0.00	121.70			
75.90	S0		66.00	352.00	261.37	-59.17	-54.69	347.39	0.00	77.39			
76.00			70.00	352.00	261.37	-59.17	-50.71	347.84	0.00	77.84	110.00	FAXIS	
76.05	AxialPlane		70.00	352.00	261.23	-59.18	-50.69	347.71	0.00	77.71			
88.10	S2		66.00	306.00	260.53	-59.10	-48.62	324.52	0.00	54.52			
88.80	VN		45.00	184.00	260.72	-59.10	-14.31	182.23	0.00	272.23			
92.10	S0		62.00										
99.50	S0		75.00	136.00	263.70	-58.98	-22.52	21.70	0.00	111.70			
100.20	VN		70.00	95.00	263.10	-58.95	-34.87	29.68	0.00	119.68			
104.00	S0		55.00										
107.70	CNT		62.00	200.00	261.95	-58.90	-10.29	287.95	0.00	17.95			
107.90	S0		60.00	278.00	261.95	-58.90	-45.12	307.62	0.00	37.62			
108.20	S0		76.00	272.00	261.90	-58.90	-34.26	326.47	0.00	56.47			
113.00	S0		74.00										
114.90	S0		68.00	0.00	262.73	-58.73	-53.27	352.73	0.00	82.73			
120.50	S0		68.00	84.00	261.10	-58.85	-39.35	27.08	0.00	117.08			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
127.50	S0		67.00	88.00	261.93	-58.80	-38.71	30.57	0.00	120.57			
130.70	CNT		53.00										
136.00	S0		54.00	190.00	261.70	-58.77	-7.29	225.22	0.00	315.22			
142.50	S0		80.00	224.00	263.60	-58.70	-24.99	337.01	0.00	67.01			
145.00	S0		60.00	206.00	262.20	-58.73	-13.22	278.80	0.00	8.80			
146.10	CNT		40.00	184.00	261.60	-58.78	-18.95	181.07	0.00	271.07			
149.10	S0		50.00	306.00	261.67	-58.78	-62.66	315.83	0.00	45.83			
151.10	S0		60.00	82.00	262.33	-58.72	-45.25	36.53	0.00	126.53			
152.10	S0		66.00	90.00	262.50	-58.70	-38.69	33.10	0.00	123.10			
156.20	S0		52.00										
161.50	S0		65.00										
162.40	S0		70.00	235.00	262.33	-58.80	-25.12	311.04	0.00	41.04			
168.80	AxialPlane												
170.95	AxialPlane		61.00	285.00	261.87	-58.73	-46.96	312.02	0.00	42.02			
170.96			61.00	285.00	261.87	-58.73	-46.96	312.02	0.00	42.02	92.00	FAXIS	
171.65	VN		40.00	252.00	261.78	-58.77	-47.75	271.97	0.00	1.97			
176.10	S0		50.00										
176.85	CNT		30.00										
180.45	S0		70.00	272.00	262.25	-58.75	-37.14	317.77	0.00	47.77			
189.30	VN		12.00	56.00	262.07	-58.72	-83.90	226.71	0.00	316.71			
193.95	VN		35.00	39.00	262.40	-58.72	-80.82	23.88	0.00	113.88			QZ-AK-CL vein carrying visible gold
194.00	S0		74.00	218.00	262.40	-58.72	-20.89	323.98	0.00	53.98			
194.50	S0		65.00	194.00	262.38	-58.72	-9.08	311.99	0.00	41.99			
196.00	CNT		66.00	250.00	262.03	-58.77	-31.43	304.90	0.00	34.90			
199.75	CNT		63.00	205.00	261.90	-58.77	-12.78	291.77	0.00	21.77			
200.45	S2		50.00	344.00	261.95	-58.75	-70.47	341.11	0.00	71.11			
202.00	AxialPlane		84.00	344.00	262.00	-58.70	-37.10	349.26	0.00	79.26			
202.01			84.00	344.00	261.90	-58.70	-37.10	349.16	0.00	79.16	92.00	FAXIS	axial planes seem to vary a little bit in respect to their core angle (see measure at 202metres vs the one at 202.6metres. se
202.60	AxialPlane		63.00	7.00	261.80	-58.70	-58.18	355.53	0.00	85.53			
202.61			63.00	7.00	261.80	-58.70	-58.18	355.53	0.00	85.53	104.00	FAXIS	
204.15	AxialPlane		68.00	283.00	261.57	-58.68	-41.56	318.18	0.00	48.18			
204.16			68.00	283.00	261.57	-58.68	-41.56	318.18	0.00	48.18	7.00	FAXIS	
211.40	S0		68.00	280.00	262.02	-58.58	-40.77	317.62	0.00	47.62			
215.40	S0		66.00	260.00	261.30	-58.65	-35.22	307.31	0.00	37.31			
216.10	AxialPlane		63.00	276.00	260.83	-58.68	-42.56	308.96	0.00	38.96			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
216.11			63.00	276.00	260.83	-58.68	-42.56	308.96	0.00	38.96	46.00	FAXIS	
217.50	S0		61.00	272.00	260.97	-58.70	-42.39	305.02	0.00	35.02			
218.35	AxialPlane		75.00	0.00	261.33	-58.70	-46.30	351.33	0.00	81.33			
218.36			75.00	0.00	261.33	-58.70	-46.30	351.33	0.00	81.33	0.00	FAXIS	
218.70	S0		72.00	284.00	261.52	-58.70	-39.30	323.26	0.00	53.26			
219.50	S0		47.00										
223.70	VN		87.00	212.00	261.55	-58.68	-28.81	348.25	0.00	78.25			PO veinlet
227.55	CNT		75.00										
229.50	CNT		62.00	280.00	262.03	-58.52	-44.73	310.97	0.00	40.97			
231.70	S0		60.00	286.00	260.85	-58.57	-48.16	310.67	0.00	40.67			
235.00	CNT		60.00	78.00	261.17	-58.47	-46.86	33.25	0.00	123.25			
238.90	AxialPlane		73.00										
241.90	CNT		85.00										
245.60	S0		61.00										
250.80	S0		52.00										
253.65	CNT		74.00										
254.10	S0		65.00										
258.35	CNT		68.00										
261.70	CNT		75.00										
265.90	S2		66.00	353.00	260.30	-58.20	-55.69	346.86	0.00	76.86			
265.95			78.00	310.00	260.30	-58.20	-40.46	336.09	0.00	66.09	34.00	ELINE	
267.10	CNT		86.00	316.00	260.30	-58.20	-34.78	345.43	0.00	75.43			
269.25	S0		72.00	236.00	260.30	-58.20	-25.93	314.43	0.00	44.43			
270.40	VN		73.00	323.00	260.30	-58.20	-46.39	336.24	0.00	66.24			
270.70	S0		70.00	232.00	260.30	-58.20	-24.55	309.86	0.00	39.86			
277.70	S0		64.00	296.00	260.30	-58.20	-48.50	318.56	0.00	48.56			
280.00	VN		40.00	170.00	260.30	-58.20	-19.29	146.56	0.00	236.56			
282.80	AxialPlane		60.00	352.00	260.30	-58.20	-61.63	345.76	0.00	75.76			
282.81			60.00	352.00	260.30	-58.20	-61.63	345.76	0.00	75.76	171.00	FAXIS	
288.90	S0		55.00	332.00	260.30	-58.20	-64.58	332.95	0.00	62.95			
293.80	S0		63.00										
295.40	S0		61.00										
300.15	S0		74.00										

## Sample Data - ASSAY

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456584	16.00	18.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.002	0.170	47.10	147.00	9.23	1,300.0	0.024	320.00	0.24	98.00	188.00
456585	18.00	20.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.003	0.230	38.60	147.00	9.45	1,520.0	0.018	299.00	2.38	87.10	134.00
456586	20.00	22.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.001	0.170	23.70	166.00	9.42	1,960.0	0.003	279.00	1.15	83.90	133.00
456587	22.00	24.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.008	0.520	95.40	187.50	9.57	1,720.0	0.151	315.00	0.51	93.40	522.00
456588	24.00	26.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.001	0.350	17.20	219.00	9.41	1,620.0	0.066	313.00	0.28	71.40	263.00
456590	26.00	28.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.004	0.590	108.00	180.00	9.40	1,450.0	0.202	314.00	0.66	77.90	725.00
456591	28.00	30.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.001	0.150	27.40	104.50	9.39	1,700.0	0.008	311.00	0.87	87.00	177.00
456592	30.00	32.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.001	0.060	136.00	110.50	8.93	1,550.0	0.006	314.00	0.77	90.20	127.00
456593	32.00	34.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.001	0.180	78.80	171.50	9.31	1,560.0	0.014	277.00	1.66	69.80	133.00
456594	34.00	36.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.001	0.270	45.90	220.00	8.39	1,250.0	0.080	265.00	0.19	79.20	303.00
456595	36.00	38.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.001	0.310	14.50	258.00	9.27	1,310.0	0.035	249.00	1.59	86.00	180.00
456597	38.00	40.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.001	0.160	53.90	148.00	8.64	1,430.0	0.023	294.00	1.47	82.40	194.00
456598	40.00	42.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.001	0.360	69.30	196.50	9.88	1,480.0	0.065	292.00	0.79	84.80	512.00
456599	42.00	44.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.010	1.000	399.00	357.00	11.85	1,440.0	0.115	223.00	3.58	88.00	694.00
456600	44.00	46.00	2.00	2	VO18163689 - Finalized	25/07/2018	0.004	0.460	468.00	260.00	9.13	1,470.0	0.035	306.00	0.25	88.80	508.00
456601	46.00	48.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.001	0.220	23.60	166.50	9.30	1,110.0	0.006	310.00	0.82	94.00	138.00
456602	48.00	50.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.001	0.060	32.20	126.00	7.66	1,260.0	0.003	301.00	0.28	86.10	106.00
456603	50.00	52.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.001	0.180	10.90	141.50	8.26	1,220.0	0.003	290.00	0.32	122.00	99.00
456604	52.00	54.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.003	0.230	398.00	176.00	10.45	1,440.0	0.062	334.00	0.28	91.80	584.00
456605	54.00	56.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.006	0.310	449.00	185.50	11.05	1,850.0	0.145	295.00	0.43	84.00	1 520.00
456606	56.00	58.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.001	0.360	25.40	188.50	9.38	1,910.0	0.013	318.00	0.51	95.20	318.00
456607	58.00	60.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.001	0.180	18.60	188.50	9.05	1,400.0	0.009	283.00	1.07	100.50	132.00
456608	60.00	62.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.001	0.060	47.30	113.50	7.70	1,740.0	0.007	297.00	0.28	113.50	154.00
456610	62.00	64.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.024	0.060	57.70	133.50	8.12	1,360.0	0.003	265.00	0.22	136.00	89.00
456611	64.00	65.70	1.70	2	VO18163690 - Finalized	26/07/2018	0.001	0.160	40.00	142.00	8.86	1,420.0	0.003	320.00	0.39	93.00	98.00
456612	65.70	67.00	1.30	2	VO18163690 - Finalized	26/07/2018	0.041	1.410	104.50	218.00	19.05	401.0	0.153	277.00	25.50	168.50	1 020.00
456613	67.00	69.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.090	2.080	102.50	198.50	19.00	338.0	0.168	260.00	25.70	173.00	1 240.00
456614	69.00	71.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.048	1.770	126.50	142.50	18.35	301.0	0.211	270.00	26.80	139.00	1 220.00
456615	71.00	73.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.073	1.830	139.50	112.00	18.25	212.0	0.193	291.00	26.80	124.50	877.00
456617	73.00	75.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.039	1.710	110.50	207.00	21.50	305.0	0.194	291.00	26.30	201.00	1 200.00
456618	75.00	77.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.040	1.450	136.50	147.00	19.90	366.0	0.237	293.00	27.10	142.50	1 390.00
456619	77.00	79.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.030	0.980	111.00	175.50	19.20	544.0	0.152	281.00	26.70	151.00	1 510.00
456620	79.00	81.00	2.00	2	VO18163690 - Finalized	26/07/2018	0.023	1.340	67.90	239.00	17.00	453.0	0.121	330.00	30.90	167.50	854.00
456621	81.00	83.00	2.00	2	VO18163691 - Finalized	28/07/2018	0.031	1.730	109.50	110.50	16.00	294.0	0.184	264.00	27.30	118.00	978.00
456622	83.00	85.00	2.00	2	VO18163691 - Finalized	28/07/2018	0.033	1.320	98.90	108.50	14.20	440.0	0.236	340.00	27.20	116.00	1 050.00
456623	85.00	87.00	2.00	2	VO18163691 - Finalized	28/07/2018	0.029	1.200	26.20	293.00	17.50	744.0	0.096	537.00	33.30	218.00	1 200.00
456624	87.00	89.00	2.00	2	VO18163691 - Finalized	28/07/2018	0.017	1.440	7.10	255.00	15.05	312.0	0.078	494.00	39.30	187.50	1 020.00



Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456625	89.00	91.00	2.00	2	VO18163691 - Finalized	28/07/2018	0.013	0.960	6.70	282.00	13.35	388.0	0.092	337.00	28.30	174.50	1 140.00
456626	91.00	93.00	2.00	2	VO18163691 - Finalized	28/07/2018	0.035	2.550	10.40	426.00	22.80	357.0	0.133	610.00	59.80	321.00	1 660.00
456627	93.00	94.50	1.50	2	VO18163691 - Finalized	28/07/2018	0.009	0.790	22.10	179.00	13.00	334.0	0.039	182.00	13.60	156.50	551.00
456628	94.50	96.00	1.50	2	VO18163691 - Finalized	28/07/2018	0.004	0.310	13.20	106.00	6.14	521.0	0.075	225.00	14.05	68.70	837.00
456630	96.00	97.15	1.15	2	VO18163691 - Finalized	28/07/2018	0.092	2.150	27.70	327.00	18.65	727.0	0.425	1 790.00	149.00	230.00	4 670.00
456631	97.15	98.00	0.85	2	VO18163691 - Finalized	28/07/2018	0.075	1.740	60.90	385.00	19.65	5,990.0	0.134	758.00	107.00	201.00	1 260.00
456632	98.00	99.00	1.00	2	VO18163691 - Finalized	28/07/2018	0.074	1.850	392.00	350.00	20.80	6,790.0	0.123	784.00	90.60	218.00	1 220.00
456633	99.00	100.00	1.00	2	VO18163691 - Finalized	28/07/2018	0.056	1.630	197.00	257.00	18.25	5,600.0	0.127	895.00	119.00	170.50	1 360.00
456634	100.00	101.00	1.00	2	VO18163691 - Finalized	28/07/2018	0.053	1.610	84.90	309.00	19.35	4,360.0	0.128	858.00	111.00	197.50	1 220.00
456635	101.00	102.00	1.00	2	VO18163691 - Finalized	28/07/2018	0.073	1.960	63.90	342.00	20.80	4,770.0	0.172	954.00	138.00	216.00	1 750.00
456637	102.00	103.00	1.00	2	VO18163691 - Finalized	28/07/2018	0.063	1.490	63.70	277.00	18.30	5,090.0	0.145	837.00	112.00	173.50	1 650.00
456638	103.00	104.00	1.00	2	VO18163691 - Finalized	28/07/2018	0.057	1.170	71.20	189.00	16.40	8,440.0	0.156	693.00	93.60	122.50	1 360.00
456639	104.00	105.00	1.00	2	VO18163691 - Finalized	28/07/2018	0.070	1.510	77.00	240.00	15.85	5,070.0	0.159	916.00	127.00	141.00	1 480.00
456640	105.00	106.00	1.00	2	VO18163691 - Finalized	28/07/2018	0.074	1.670	58.70	259.00	15.45	3,170.0	0.178	1 040.00	153.00	154.50	1 820.00
456641	106.00	107.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.080	1.800	271.00	296.00	19.25	5,280.0	0.181	962.00	134.50	170.50	2 050.00
456642	107.00	108.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.059	1.230	137.50	228.00	18.60	8,290.0	0.117	609.00	66.80	123.50	1 560.00
456643	108.00	109.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.037	0.710	221.00	165.50	23.60	12,350.0	0.067	299.00	32.70	66.90	750.00
456644	109.00	110.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.023	0.490	110.00	144.00	20.60	9,840.0	0.046	286.00	29.80	43.30	721.00
456645	110.00	111.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.067	0.610	338.00	157.50	18.30	10,200.0	0.124	411.00	49.70	55.60	2 380.00
456646	111.00	112.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.067	0.620	207.00	155.50	22.40	16,900.0	0.127	428.00	52.80	50.00	1 940.00
456647	112.00	113.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.049	0.410	30.20	161.50	22.70	14,350.0	0.082	247.00	33.10	46.60	1 320.00
456648	113.00	114.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.064	0.480	249.00	190.00	21.40	12,100.0	0.081	268.00	25.00	53.10	1 120.00
456650	114.00	115.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.058	0.510	37.10	171.00	21.40	13,400.0	0.078	254.00	29.10	47.40	1 200.00
456651	115.00	116.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.032	0.610	78.10	220.00	20.40	12,500.0	0.035	187.00	16.75	46.40	551.00
456652	116.00	117.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.023	0.580	111.50	159.00	14.35	6,260.0	0.053	270.00	22.00	63.40	520.00
456653	117.00	118.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.045	1.020	2.00	319.00	14.90	887.0	0.083	371.00	5.32	106.00	1 160.00
456654	118.00	119.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.048	1.260	3.00	511.00	20.50	2,030.0	0.069	274.00	8.60	142.50	968.00
456655	119.00	120.10	1.10	2	VO18163695 - Finalized	27/07/2018	0.036	0.820	5.70	251.00	13.85	889.0	0.075	316.00	7.20	98.50	918.00
456657	120.10	121.80	1.70	2	VO18163695 - Finalized	27/07/2018	0.020	0.440	195.50	97.50	20.40	4,990.0	0.026	279.00	28.30	64.50	408.00
456658	121.80	123.00	1.20	2	VO18163695 - Finalized	27/07/2018	0.325	0.270	36.90	54.60	19.30	9,610.0	0.022	167.00	14.30	23.20	386.00
456659	123.00	124.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.048	0.250	36.70	42.50	22.90	14,050.0	0.010	135.00	11.55	19.00	272.00
456660	124.00	125.00	1.00	2	VO18163695 - Finalized	27/07/2018	0.209	0.380	106.00	94.50	22.90	14,550.0	0.029	171.00	17.35	41.40	582.00
456661	125.00	126.00	1.00	2	VO18163698 - Finalized	27/07/2018	0.019	0.550	317.00	128.00	20.70	13,950.0	0.023	194.00	19.10	59.90	286.00
456662	126.00	127.00	1.00	2	VO18163698 - Finalized	27/07/2018	0.012	0.720	230.00	162.50	22.10	14,950.0	0.024	181.00	17.60	78.70	272.00
456663	127.00	128.00	1.00	2	VO18163698 - Finalized	27/07/2018	0.019	0.780	486.00	186.00	18.90	12,700.0	0.101	316.00	35.60	104.50	1 370.00
456664	128.00	129.00	1.00	2	VO18163698 - Finalized	27/07/2018	0.030	1.030	1 030.00	246.00	20.90	11,850.0	0.074	333.00	36.70	141.50	946.00
456665	129.00	130.00	1.00	2	VO18163698 - Finalized	27/07/2018	0.033	1.120	929.00	219.00	19.75	14,050.0	0.092	301.00	35.30	134.00	974.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456666	130.00	130.70	0.70	2	VO18163698 - Finalized	27/07/2018	0.005	0.590	450.00	199.00	14.80	10,700.0	0.103	486.00	22.30	116.00	896.00
456667	130.70	131.50	0.80	2	VO18163698 - Finalized	27/07/2018	0.040	1.900	63.90	363.00	23.50	3,580.0	0.194	545.00	98.70	234.00	2 800.00
456668	131.50	133.00	1.50	2	VO18163698 - Finalized	27/07/2018	0.022	1.170	3.90	272.00	16.95	678.0	0.104	579.00	49.90	211.00	1 480.00
456670	133.00	135.00	2.00	2	VO18163698 - Finalized	27/07/2018	0.046	1.860	32.30	382.00	20.30	792.0	0.209	1 060.00	92.60	272.00	2 900.00
456671	135.00	137.00	2.00	2	VO18163698 - Finalized	27/07/2018	0.128	1.800	303.00	82.70	17.05	949.0	0.520	938.00	91.10	208.00	2 150.00
456672	137.00	139.00	2.00	2	VO18163698 - Finalized	27/07/2018	0.072	1.040	229.00	66.30	13.60	1,100.0	0.354	748.00	71.20	171.50	1 550.00
456673	139.00	141.00	2.00	2	VO18163698 - Finalized	27/07/2018	0.092	1.290	189.50	59.40	13.35	275.0	0.401	1 020.00	91.80	169.00	1 160.00
456674	141.00	143.00	2.00	2	VO18163698 - Finalized	27/07/2018	0.022	1.240	77.10	245.00	24.30	710.0	0.097	139.00	15.20	169.50	1 010.00
456675	143.00	145.00	2.00	2	VO18163698 - Finalized	27/07/2018	0.019	1.870	0.90	371.00	22.80	694.0	0.077	158.00	16.95	195.00	796.00
456677	145.00	146.10	1.10	2	VO18163698 - Finalized	27/07/2018	0.016	1.680	1.10	261.00	20.20	69.0	0.079	196.00	16.90	161.50	595.00
456678	146.10	147.30	1.20	2	VO18163698 - Finalized	27/07/2018	0.001	0.240	37.10	49.60	25.70	7,190.0	0.003	14.00	0.75	19.10	47.00
456679	147.30	148.50	1.20	2	VO18163698 - Finalized	27/07/2018	0.001	0.005	1.00	3.90	24.20	8,990.0	0.003	8.00	0.14	2.10	18.00
456680	148.50	149.50	1.00	2	VO18163698 - Finalized	27/07/2018	0.043	0.030	1.20	6.40	23.30	7,370.0	0.003	10.00	0.28	1.60	22.00
456681	149.50	150.50	1.00	2	VO18163708 - Finalized	26/07/2018	0.482	0.010	1.10	11.50	28.00	8,850.0	0.007	27.00	0.11	7.40	78.00
456682	150.50	151.50	1.00	2	VO18163708 - Finalized	26/07/2018	0.035	0.005	6.90	1.60	28.00	8,700.0	0.003	6.00	0.18	1.40	14.00
456683	151.50	152.50	1.00	2	VO18163708 - Finalized	26/07/2018	0.004	0.005	1.40	1.00	28.90	8,820.0	0.003	6.00	0.07	1.40	10.00
456684	152.50	153.50	1.00	2	VO18163708 - Finalized	26/07/2018	0.001	0.005	0.70	1.00	25.70	7,600.0	0.003	8.00	0.17	1.30	6.00
456685	153.50	154.50	1.00	2	VO18163708 - Finalized	26/07/2018	0.002	0.005	9.40	1.40	23.10	7,610.0	0.003	8.00	0.10	1.80	6.00
456686	154.50	155.50	1.00	2	VO18163708 - Finalized	26/07/2018	0.001	0.005	4.40	6.20	25.00	13,050.0	0.003	43.00	0.46	8.90	14.00
456687	155.50	156.50	1.00	2	VO18163708 - Finalized	26/07/2018	0.001	0.020	3.40	9.90	21.10	11,500.0	0.003	56.00	0.61	12.60	17.00
456688	156.50	157.50	1.00	2	VO18163708 - Finalized	26/07/2018	0.001	0.005	5.20	11.80	19.80	12,100.0	0.003	44.00	0.41	12.30	12.00
456690	157.50	158.50	1.00	2	VO18163708 - Finalized	26/07/2018	0.001	0.005	1.40	5.50	20.90	12,250.0	0.003	30.00	0.21	7.30	9.00
456691	158.50	159.55	1.05	2	VO18163708 - Finalized	26/07/2018	0.001	0.040	10.80	8.40	20.10	11,700.0	0.003	47.00	0.54	10.20	45.00
456692	159.55	161.50	1.95	2	VO18163708 - Finalized	26/07/2018	0.004	0.430	4.60	107.50	12.90	456.0	0.012	274.00	9.13	78.20	203.00
456693	161.50	163.00	1.50	2	VO18163708 - Finalized	26/07/2018	0.036	1.100	61.50	128.50	16.30	305.0	0.133	221.00	19.75	124.50	736.00
456694	163.00	165.00	2.00	2	VO18163708 - Finalized	26/07/2018	0.052	0.680	76.40	81.70	10.75	451.0	0.174	231.00	18.85	111.00	628.00
456695	165.00	167.00	2.00	2	VO18163708 - Finalized	26/07/2018	0.054	0.770	87.70	147.50	14.40	344.0	0.122	175.00	15.40	134.00	626.00
456697	167.00	169.00	2.00	2	VO18163708 - Finalized	26/07/2018	0.102	1.260	207.00	125.00	19.25	84.0	0.199	205.00	18.60	152.50	732.00
456698	169.00	171.00	2.00	2	VO18163708 - Finalized	26/07/2018	0.038	0.550	55.40	98.40	11.10	171.0	0.105	197.00	16.30	110.00	824.00
456699	171.00	173.00	2.00	2	VO18163708 - Finalized	26/07/2018	0.088	1.230	117.00	192.00	23.50	442.0	0.173	184.00	19.40	181.50	766.00
456700	173.00	175.00	2.00	2	VO18163708 - Finalized	26/07/2018	0.113	1.250	216.00	124.00	21.20	67.0	0.200	237.00	21.20	185.50	1 100.00
456701	175.00	176.85	1.85	2	VO18168880 - Finalized	27/07/2018	0.028	0.820	9.70	173.50	18.80	415.0	0.084	182.00	15.90	151.00	916.00
456702	176.85	178.90	2.05	2	VO18168880 - Finalized	27/07/2018	0.011	0.340	9.00	105.50	15.50	6,140.0	0.026	40.00	2.54	52.20	49.00
456703	178.90	180.00	1.10	2	VO18168880 - Finalized	27/07/2018	0.070	0.020	14.00	4.60	25.90	8,920.0	0.003	26.00	0.57	5.90	19.00
456704	180.00	181.00	1.00	2	VO18168880 - Finalized	27/07/2018	0.004	0.020	3.10	2.10	23.80	8,260.0	0.003	23.00	0.51	5.80	10.00
456705	181.00	182.00	1.00	2	VO18168880 - Finalized	27/07/2018	0.004	0.010	9.00	3.00	23.80	7,350.0	0.003	22.00	0.28	5.20	7.00
456706	182.00	183.00	1.00	2	VO18168880 - Finalized	27/07/2018	0.002	0.005	2.00	0.90	20.50	5,890.0	0.003	11.00	0.19	2.20	12.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456707	183.00	184.00	1.00	2	VO18168880 - Finalized	27/07/2018	0.002	0.010	3.60	1.60	32.70	10,150.0	0.003	28.00	0.29	5.30	17.00
456708	184.00	185.00	1.00	2	VO18168880 - Finalized	27/07/2018	0.002	0.005	1.50	0.60	23.10	6,840.0	0.003	6.00	0.07	1.20	7.00
456710	185.00	186.00	1.00	2	VO18168880 - Finalized	27/07/2018	0.121	0.010	2.80	4.00	27.80	8,190.0	0.003	18.00	0.09	1.70	35.00
456711	186.00	187.00	1.00	2	VO18168880 - Finalized	27/07/2018	0.577	0.330	6.50	17.20	20.80	5,090.0	0.003	24.00	0.09	2.40	37.00
456712	187.00	188.00	1.00	2	VO18168880 - Finalized	27/07/2018	0.016	0.010	0.40	1.40	25.90	4,860.0	0.003	5.00	0.06	0.80	5.00
456713	188.00	189.00	1.00	2	VO18168880 - Finalized	27/07/2018	0.001	0.010	0.80	3.70	26.30	7,040.0	0.003	5.00	0.06	1.10	8.00
456714	189.00	190.00	1.00	2	VO18168880 - Finalized	27/07/2018	1.125	0.020	0.50	10.80	20.70	6,120.0	0.003	6.00	0.11	1.30	20.00
456715	190.00	191.00	1.00	2	VO18168880 - Finalized	27/07/2018	1.680	0.005	1.40	10.90	23.80	6,350.0	0.003	7.00	0.05	1.50	17.00
456717	191.00	192.00	1.00	2	VO18168880 - Finalized	27/07/2018	0.101	0.010	1.90	9.50	28.60	7,480.0	0.003	13.00	0.05	1.10	31.00
456718	192.00	193.00	1.00	2	VO18168880 - Finalized	27/07/2018	0.015	0.005	0.30	2.00	27.70	5,670.0	0.003	11.00	0.06	1.00	12.00
456719	193.00	194.10	1.10	2	VO18168880 - Finalized	27/07/2018	2.260	0.020	14.60	15.90	27.00	5,910.0	0.003	12.00	0.03	1.50	31.00
456720	194.10	195.00	0.90	2	VO18168880 - Finalized	27/07/2018	0.003	0.005	8.30	2.00	24.40	7,640.0	0.003	9.00	0.12	2.00	8.00
456721	195.00	196.00	1.00	2	VO18168880 - Finalized	27/07/2018	0.001	0.030	1.40	7.50	23.40	12,950.0	0.003	60.00	0.42	8.40	16.00
456722	196.00	198.00	2.00	2	VO18168882 - Finalized	28/07/2018	0.002	0.080	61.70	115.00	8.67	1,240.0	0.003	321.00	0.23	82.60	81.00
456723	198.00	199.80	1.80	2	VO18168882 - Finalized	28/07/2018	0.002	0.070	55.50	126.00	9.15	1,040.0	0.003	320.00	1.14	86.50	97.00
456724	199.80	201.80	2.00	2	VO18168882 - Finalized	28/07/2018	0.006	0.210	14.60	66.10	10.45	993.0	0.003	226.00	3.12	52.40	120.00
456725	201.80	203.80	2.00	2	VO18168882 - Finalized	28/07/2018	0.034	0.690	13.70	191.00	18.60	305.0	0.076	249.00	21.50	128.00	913.00
456726	203.80	205.80	2.00	2	VO18168882 - Finalized	28/07/2018	0.041	0.690	12.90	207.00	19.45	220.0	0.114	234.00	20.90	140.00	1 240.00
456727	205.80	207.80	2.00	2	VO18168882 - Finalized	28/07/2018	0.096	0.890	76.00	161.00	19.00	469.0	0.174	224.00	20.70	134.00	898.00
456728	207.80	209.80	2.00	2	VO18168882 - Finalized	28/07/2018	0.014	0.440	4.50	170.50	15.45	206.0	0.062	229.00	16.10	116.00	689.00
456730	209.80	211.80	2.00	2	VO18168882 - Finalized	28/07/2018	0.023	0.730	7.10	320.00	22.90	369.0	0.091	152.00	14.10	174.50	824.00
456731	211.80	213.80	2.00	2	VO18168882 - Finalized	28/07/2018	0.017	0.330	2.80	121.50	11.10	209.0	0.036	170.00	10.20	81.10	530.00
456732	213.80	215.80	2.00	2	VO18168882 - Finalized	28/07/2018	0.054	0.730	21.80	216.00	17.45	226.0	0.092	205.00	15.45	114.00	936.00
456733	215.80	217.80	2.00	2	VO18168882 - Finalized	28/07/2018	0.157	1.130	86.00	154.50	17.05	231.0	0.192	250.00	22.70	106.50	916.00
456734	217.80	219.50	1.70	2	VO18168882 - Finalized	28/07/2018	0.029	0.760	7.60	253.00	17.95	831.0	0.057	161.00	15.55	96.30	619.00
456735	219.50	221.50	2.00	2	VO18168882 - Finalized	28/07/2018	0.022	0.870	10.30	337.00	25.20	665.0	0.100	146.00	15.35	136.50	896.00
456737	221.50	223.50	2.00	2	VO18168882 - Finalized	28/07/2018	0.257	1.990	121.50	274.00	27.30	623.0	0.371	139.00	18.25	131.50	1 870.00
456738	223.50	225.50	2.00	2	VO18168882 - Finalized	28/07/2018	0.192	1.720	86.90	275.00	26.20	460.0	0.273	131.00	14.60	130.00	1 540.00
456739	225.50	227.60	2.10	2	VO18168882 - Finalized	28/07/2018	0.045	1.010	9.00	396.00	26.70	1,360.0	0.121	119.00	14.55	125.50	1 130.00
456740	227.60	228.50	0.90	2	VO18168884 - Finalized	28/07/2018	0.006	0.200	16.60	96.90	23.20	6,660.0	0.003	50.00	3.40	34.00	191.00
456741	228.50	229.50	1.00	2	VO18168884 - Finalized	28/07/2018	0.006	0.130	7.00	62.10	20.70	7,010.0	0.008	41.00	3.79	23.90	200.00
456742	229.50	230.40	0.90	2	VO18168884 - Finalized	28/07/2018	0.001	0.060	28.70	18.70	15.55	3,600.0	0.003	14.00	1.45	8.10	100.00
456743	230.40	231.40	1.00	2	VO18168884 - Finalized	28/07/2018	0.004	0.080	21.90	21.70	15.45	3,600.0	0.003	19.00	1.47	9.00	124.00
456744	231.40	232.40	1.00	2	VO18168884 - Finalized	28/07/2018	0.006	0.100	10.30	38.50	17.20	4,510.0	0.009	20.00	2.69	14.50	188.00
456745	232.40	233.40	1.00	2	VO18168884 - Finalized	28/07/2018	0.005	0.230	14.50	70.20	17.40	4,300.0	0.014	35.00	3.62	28.80	340.00
456746	233.40	234.40	1.00	2	VO18168884 - Finalized	28/07/2018	0.005	0.180	85.00	75.80	13.35	3,830.0	0.003	15.00	1.79	27.70	83.00
456747	234.40	235.00	0.60	2	VO18168884 - Finalized	28/07/2018	0.010	0.310	88.30	121.50	11.70	2,870.0	0.022	34.00	2.73	51.70	206.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456748	235.00	237.00	2.00	2	VO18168884 - Finalized	28/07/2018	0.034	0.880	3.00	240.00	20.50	698.0	0.094	207.00	21.60	130.00	1 020.00
456750	237.00	239.00	2.00	2	VO18168884 - Finalized	28/07/2018	0.046	1.100	45.80	193.00	20.50	297.0	0.162	200.00	21.30	130.00	1 140.00
456751	239.00	241.00	2.00	2	VO18168884 - Finalized	28/07/2018	0.022	0.830	8.50	229.00	20.80	578.0	0.071	161.00	17.05	144.50	874.00
456752	241.00	241.90	0.90	2	VO18168884 - Finalized	28/07/2018	0.019	0.830	4.80	267.00	25.50	399.0	0.050	226.00	21.60	168.50	378.00
456753	241.90	243.00	1.10	2	VO18168884 - Finalized	28/07/2018	0.021	0.120	10.60	44.30	10.75	7,860.0	0.003	50.00	0.37	26.80	59.00
456754	243.00	244.00	1.00	2	VO18168884 - Finalized	28/07/2018	0.026	0.130	93.20	38.50	25.20	25,100.0	0.003	114.00	0.80	20.90	91.00
456755	244.00	245.50	1.50	2	VO18168884 - Finalized	28/07/2018	0.016	0.120	212.00	43.30	14.65	9,490.0	0.008	167.00	4.29	38.20	109.00
456757	245.50	247.00	1.50	2	VO18168884 - Finalized	28/07/2018	0.001	0.040	42.00	56.10	12.75	1,460.0	0.003	295.00	1.04	81.00	149.00
456758	247.00	249.00	2.00	2	VO18168884 - Finalized	28/07/2018	0.001	0.050	57.90	52.40	13.55	1,770.0	0.003	337.00	0.25	91.30	168.00
456759	249.00	251.00	2.00	2	VO18168884 - Finalized	28/07/2018	0.001	0.050	59.60	92.10	10.10	1,640.0	0.003	313.00	0.22	94.80	161.00
456760	251.00	252.50	1.50	2	VO18168884 - Finalized	28/07/2018	0.001	0.120	86.30	168.00	9.57	1,480.0	0.003	300.00	0.21	125.00	125.00
456761	252.50	253.60	1.10	2	VO18168886 - Finalized	28/07/2018	0.004	0.100	31.20	92.30	9.59	1,630.0	0.006	304.00	1.02	123.00	140.00
456762	253.60	255.00	1.40	2	VO18168886 - Finalized	28/07/2018	0.013	0.440	2.60	98.10	9.11	207.0	0.022	194.00	13.45	96.70	59.00
456763	255.00	257.40	2.40	2	VO18168886 - Finalized	28/07/2018	0.021	0.460	4.20	101.00	9.77	373.0	0.055	172.00	12.10	93.20	513.00
456764	257.40	258.30	0.90	2	VO18168886 - Finalized	28/07/2018	0.016	0.550	14.20	113.00	11.60	339.0	0.062	207.00	13.10	91.20	445.00
456765	258.30	259.00	0.70	2	VO18168886 - Finalized	28/07/2018	0.004	0.300	10.50	102.50	9.99	373.0	0.016	90.00	3.43	74.10	96.00
456766	259.00	260.00	1.00	2	VO18168886 - Finalized	28/07/2018	0.001	0.110	3.50	37.80	3.83	619.0	0.007	49.00	0.24	22.20	48.00
456767	260.00	261.00	1.00	2	VO18168886 - Finalized	28/07/2018	0.004	0.350	15.60	95.50	13.65	5,620.0	0.006	157.00	2.07	74.70	166.00
456768	261.00	261.70	0.70	2	VO18168886 - Finalized	28/07/2018											
456770	261.70	263.00	1.30	2	VO18168886 - Finalized	28/07/2018	0.029	1.260	16.40	227.00	21.20	3,730.0	0.046	145.00	14.80	173.50	344.00
456771	263.00	265.00	2.00	2	VO18168886 - Finalized	28/07/2018	0.204	1.860	151.00	80.90	17.25	115.0	0.313	238.00	23.60	144.00	1 080.00
456772	265.00	267.00	2.00	2	VO18168886 - Finalized	28/07/2018	0.161	1.750	136.50	81.40	16.25	110.0	0.309	222.00	20.50	138.00	749.00
456773	267.00	267.90	0.90	2	VO18168886 - Finalized	28/07/2018	0.090	1.910	71.20	250.00	20.90	82.0	0.195	230.00	23.40	184.00	1 160.00
456774	267.90	269.00	1.10	2	VO18168886 - Finalized	28/07/2018	0.005	0.140	106.50	35.50	13.95	3,300.0	0.005	30.00	2.12	18.40	63.00
456775	269.00	270.00	1.00	2	VO18168886 - Finalized	28/07/2018	0.082	0.150	335.00	37.50	12.80	3,650.0	0.005	17.00	0.44	25.20	34.00
456777	270.00	271.00	1.00	2	VO18168886 - Finalized	28/07/2018	0.135	0.170	88.40	60.30	18.55	6,750.0	0.003	22.00	0.29	35.30	51.00
456778	271.00	272.00	1.00	2	VO18168886 - Finalized	28/07/2018	0.543	0.240	132.50	68.10	23.30	9,480.0	0.037	30.00	0.85	50.60	66.00
456779	272.00	273.00	1.00	2	VO18168886 - Finalized	28/07/2018	0.007	0.430	654.00	228.00	16.45	7,890.0	0.006	33.00	0.52	98.40	63.00
456780	273.00	274.10	1.10	2	VO18168886 - Finalized	28/07/2018	0.006	0.400	37.40	205.00	14.25	8,680.0	0.005	23.00	0.26	103.50	50.00
456781	274.10	276.00	1.90	2	VO18168887 - Finalized	30/07/2018	0.013	0.770	24.60	274.00	15.15	781.0	0.112	506.00	45.00	196.50	1 180.00
456782	276.00	278.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.026	1.880	44.10	473.00	18.60	2,500.0	0.298	1 280.00	140.50	308.00	3 070.00
456783	278.00	280.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.039	1.870	76.20	398.00	15.55	1,870.0	0.377	1 600.00	143.00	303.00	2 840.00
456784	280.00	282.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.070	1.780	349.00	50.50	15.65	470.0	0.903	1 040.00	98.20	259.00	1 940.00
456785	282.00	284.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.056	1.780	380.00	59.20	18.00	219.0	0.939	873.00	85.90	253.00	1 440.00
456786	284.00	286.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.051	1.800	365.00	202.00	18.50	243.0	0.979	870.00	99.30	294.00	2 030.00
456787	286.00	288.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.037	1.440	274.00	219.00	14.40	625.0	0.658	875.00	96.50	256.00	1 760.00
456788	288.00	290.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.034	1.240	219.00	66.30	13.60	626.0	0.507	353.00	38.20	134.50	1 020.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456790	290.00	292.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.032	1.170	195.50	102.00	14.20	293.0	0.510	320.00	30.00	165.00	1 370.00
456791	292.00	294.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.021	0.820	132.50	111.00	11.45	451.0	0.288	219.00	19.50	145.00	765.00
456792	294.00	296.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.026	1.060	99.60	128.00	10.95	208.0	0.201	217.00	17.20	134.50	668.00
456793	296.00	298.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.037	1.330	134.00	76.90	12.65	362.0	0.357	277.00	27.50	128.50	848.00
456794	298.00	299.50	1.50	2	VO18168887 - Finalized	30/07/2018	0.033	1.100	128.50	82.30	12.85	60.0	0.294	264.00	22.60	132.50	1 060.00
456795	299.50	301.00	1.50	2	VO18168887 - Finalized	30/07/2018	0.023	0.830	85.60	72.80	10.25	329.0	0.225	191.00	15.70	117.00	832.00




## Detailed Log Report

### Hole Number OSK-KAN-18-010

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-70.00 <b>Collar Az:</b> 230.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 368 222.00	<b>Length:</b>	226.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	July 3, 2018	<b>East:</b>	486 774.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	July 6, 2018	<b>Elev:</b>	100.00	<b>Casing Length:</b>	13.00 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	Y <b>Making Water:</b> N
<b>Logger 1:</b>	Cynthia Lee			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	PPR fold hinge			<b>Claims Title:</b>	2099220 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	13.00	<b>OVB, Overburden</b>					
<b>Comments:</b>							
13.00	15.00	<b>I3A, Gabbro</b>					
<b>Comments:</b>							
15.00	30.80	<b>S6, Mudrock</b>	456797	15.00	17.00	2.00	
<b>Comments:</b>							
			456798	17.00	19.00	2.00	S6 GP; Carb-1 Sil-1; 7% Po IG BD 5% Py SUB BD
			456799	19.00	21.00	2.00	S6 GP; Carb-1 Sil-1; 7% Po IG BD 5% Py SUB BD
			456800	21.00	23.00	2.00	S6 GP; Carb-1 Sil-1; 7% Po IG BD 5% Py SUB BD
			456801	23.00	25.00	2.00	S6 GP; Carb-1 Sil-1; 7% Po IG BD 5% Py SUB BD
			456802	25.00	27.00	2.00	; Carb-1 Sil-1; 7% Po IG BD 5% Py SUB BD
			456803	27.00	29.00	2.00	S6 GP; Carb-1 Sil-1; 7% Po IG BD 5% Py SUB BD
			456804	29.00	30.80	1.80	S6 GP; Carb-1 Sil-1; 8% Po IG VN 7% Py IG VN; 30% I1N QZ GP 10 cm

  
 Cynthia Lee, Ing. Jr. OIQ : 5082751

From	To	Lithology	Sample	From	To	Length	Comments
30.80	56.50	<b>S9, Iron formation</b>	457651	30.80	32.00	1.20	S10; Carb-2 Ank-1; 3% Po DI BD
			457652	32.00	33.00	1.00	S10; Carb-2 Ank-1; 3% Po DI BD
<b>Comments:</b>			457653	33.00	34.00	1.00	S10; Carb-2 Ank-1; 3% Po DI BD
			457654	34.00	35.00	1.00	S10; Carb-2 Ank-1; 3% Po DI BD
			457655	35.00	36.00	1.00	S10; Carb-2 Ank-1; 3% Po DI BD
			457656	36.00	37.00	1.00	S10; Carb-2 Ank-1; 3% Po DI BD
			457657	37.00	38.00	1.00	S10; Carb-2 Ank-1; 3% Po DI BD
			457658	38.00	39.00	1.00	S10; Carb-2 Ank-1; 3% Po DI BD
			457660	39.00	40.00	1.00	S10; Carb-2 Ank-1; 3% Po DI BD
			457661	40.00	41.00	1.00	
			457662	41.00	42.00	1.00	S9C Sid; Sil-4 Sid-3; 2% Po DI PER
			457663	42.00	43.00	1.00	S9C Sid; Sil-4 Sid-3; 2% Po DI PER
			457664	43.00	44.00	1.00	S9C Sid; Sil-2; 2% Po DI PER
			457665	44.00	45.00	1.00	S9C Sid; Sil-2; 2% Po DI PER
			457667	45.00	46.00	1.00	S9C Sid; Sil-2 Chl-3 Ank-3 Ser-2; 3% Po AL VN; 2% 11N QZ CL 1 cm
			457668	46.00	47.00	1.00	S9C Sid; Sil-2 Chl-3 Ank-3 Ser-2; 3% Po AL VN; 2% 11N QZ CL 1 cm
			457669	47.00	48.00	1.00	S9C Sid; Sil-2 Chl-3 Ank-3 Ser-2; 3% Po AL VN
			457670	48.00	49.00	1.00	S9C Sid; Sil-2 Chl-3 Ank-3 Ser-2; 3% Po AL VN
			457671	49.00	50.00	1.00	S9C Sid; Sil-2 Chl-3 Ank-3 Ser-2; 3% Po AL VN
			457672	50.00	51.00	1.00	S9C Sid; Sil-2 Chl-3 Ank-3 Ser-2; 3% Po AL VN
		457673	51.00	52.10	1.10	S9C Sid; Sil-2 Chl-3 Ank-3 Ser-2; 0.01% Vg DI VN 3% Po IG VN	
		457674	53.10	54.00	0.90	S9C Sid; Sil-2 Chl-3 Ank-3 Ser-2; 3% Po IG VN	
		457675	54.00	55.00	1.00	S9C Sid; Sil-2 Chl-3 Ank-3 Ser-2; 1% Po IG VN	
		457676	55.00	56.50	1.50	S9C Sid; Sil-2 Chl-3 Ank-3 Ser-2; 1% Po IG VN	
56.50	65.10	<b>S6g, Grey Shale</b>	456805	56.50	58.00	1.50	S6g GP; Carb-1; 0.5% Po LA BD
			456806	58.00	60.00	2.00	S6g GP; Carb-1; 0.5% Po LA BD
<b>Comments:</b>			456807	60.00	62.00	2.00	S6g GP; Carb-1; 0.5% Po LA BD
			456808	62.00	64.00	2.00	S6g GP; Carb-1; 0.5% Po LA BD
			456810	64.00	65.10	1.10	S6g GP; Carb-1; 0.5% Po LA BD
65.10	84.00	<b>S6, Mudrock</b>	456811	65.10	67.00	1.90	S6 GP; Carb-1; 5% Po IG BD 1% Py SUB BD
			456812	67.00	69.00	2.00	S6 GP; Carb-1; 5% Po IG BD 1% Py SUB BD
<b>Comments:</b>			456813	69.00	71.00	2.00	S6 GP; Carb-1; 5% Po IG BD 1% Py SUB BD
			456814	71.00	73.00	2.00	S6 GP; Carb-1; 5% Po IG BD 1% Py SUB BD
			456815	73.00	75.00	2.00	S6 GP; Carb-1; 5% Po IG BD 1% Py SUB BD
			456817	75.00	77.00	2.00	S6 GP; Carb-1; 5% Po IG BD 1% Py SUB BD
			456818	77.00	79.00	2.00	S6 GP; Carb-1; 5% Po IG BD 1% Py SUB BD
			456819	79.00	81.00	2.00	S6 GP; Carb-1; 5% Po IG BD 1% Py SUB BD
			456820	81.00	83.00	2.00	S6 GP; Carb-1; 5% Po IG BD 1% Py SUB BD
			456821	83.00	84.00	1.00	S6 GP; 5% Po IG BD 1% Py SUB BD

From	To	Lithology	Sample	From	To	Length	Comments
84.00	109.40	<b>S9, Iron formation</b>	457677	84.00	85.00	1.00	S9C Ank; Sil-4; 10% Po DI CTC
			457678	85.00	86.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
<b>Comments:</b>			457680	86.00	87.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457681	87.00	88.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457682	88.00	89.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457683	89.00	90.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457684	90.00	91.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457685	91.00	92.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457687	92.00	93.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457688	93.00	94.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457689	94.00	95.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457690	95.00	96.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457691	96.00	97.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457692	97.00	98.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457693	98.00	99.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457694	99.00	100.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457695	100.00	101.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457696	101.00	102.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457697	102.00	103.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457698	103.00	104.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457700	104.00	105.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457701	105.00	106.00	1.00	S9C Ank; Sil-2 Ank-2; 2% Po DI PER 1% Py SUB PER
			457702	106.00	107.00	1.00	S9C Ank; 1% Po AL VN
			457703	107.00	108.00	1.00	S9C Ank; Sil-4 Ank-3 Chl-1; 1% Po AL VN
			457704	108.00	109.00	1.00	S9C Ank; Sil-4 Ank-3 Chl-1; 1% Po AL VN
		457705	109.00	110.00	1.00		
109.40	113.10	<b>S6, Mudrock</b>	457707	110.00	111.00	1.00	S6; Sil-1 Carb-1 Sil-1; 3% Po AL VN
			457708	111.00	112.00	1.00	S6; Sil-1 Carb-1 Sil-1; 3% Po AL VN
<b>Comments:</b>			457709	112.00	113.10	1.10	S6
113.10	118.20	<b>I3A, Gabbro</b>	456822	113.10	115.00	1.90	I3A Chl-Ank; Ank-3; 2% Po AL VN
			456823	115.00	117.00	2.00	I3A Chl-Ank; Ank-3; 2% Po AL VN
<b>Comments:</b>			456824	117.00	118.20	1.20	I3A Chl-Ank; Ank-3; 2% Po AL VN



From	To	Lithology	Sample	From	To	Length	Comments	
118.20	144.90	<b>S9, Iron formation</b>	457710	118.20	119.00	0.80	S9C Sid; Sil-3 Sil-2 Chl-2 Ank-2; 2% Po AL VN	
			457711	119.00	120.00	1.00	S9C Sid; Sil-3 Sil-2 Chl-2 Ank-2; 2% Po AL VN	
<b>Comments:</b>			457712	120.00	121.00	1.00	S9C Sid; Sil-3 Sil-2 Chl-2 Ank-2; 2% Po AL VN	
			457713	121.00	122.00	1.00	S9C Sid; Sil-3 Sil-2 Chl-2 Ank-2; 2% Po AL VN	
			457714	122.00	123.00	1.00	S9C Sid; Sil-3 Sil-2 Chl-2 Ank-2; 2% Po AL VN	
			457715	123.00	124.00	1.00	S9C Sid; Sil-3 Sil-2 Chl-2 Ank-2; 5% Po AL VN	
			457716	124.00	125.00	1.00	S9C Sid; Sil-3 Sil-2 Chl-2 Ank-2; 5% Po AL VN	
			457717	125.00	125.50	0.50	S9C Sid; Sil-3 Sil-2 Chl-2 Ank-2; 5% Po AL VN	
			457718	125.50	126.40	0.90	S6 GP; Sil-3 Carb-1; 5% Po IG SCH 5% Py IG SCH	
			457720	126.40	127.00	0.60	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 3% Po IG VN 1% Py SUB VN	
			457721	127.00	128.00	1.00	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 3% Po IG VN 1% Py SUB VN	
			457722	128.00	129.00	1.00	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 3% Po IG VN 1% Py SUB VN	
			457723	129.00	130.00	1.00	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 3% Po IG VN 1% Py SUB VN	
			457724	130.00	131.00	1.00	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 3% Po IG VN 1% Py SUB VN	
			457725	131.00	132.00	1.00	S6g GP; Chl-2 Sil-4 Ank-3 Ser-1; 3% Po IG VN 1% Py SUB VN	
			457727	132.00	133.60	1.60	S6g GP; Chl-2 Sil-4 Ank-3 Ser-1; 3% Po IG VN 1% Py SUB VN	
			457728	133.60	135.00	1.40	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 5% Po IG VN 2% Py SUB VN 0.1% As AL VN 0.1% Cp DI VN; 10% I1N SR AK 8 cm 40°	
			457729	135.00	136.00	1.00	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 5% Po IG VN 2% Py SUB VN 0.1% As AL VN 0.1% Cp DI VN; 10% I1N SR AK 8 cm 40°	
			457730	136.00	137.00	1.00	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 5% Po IG VN 2% Py SUB VN 0.1% As AL VN 0.1% Cp DI VN; 10% I1N SR AK 8 cm 40°	
			457731	137.00	138.00	1.00	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 5% Po IG VN 2% Py SUB VN 0.1% As AL VN 0.1% Cp DI VN; 10% I1N SR AK 8 cm 40°	
		457732	138.00	139.00	1.00	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 5% Po IG VN 2% Py SUB VN 0.1% As AL VN 0.1% Cp DI VN; 10% I1N SR AK 8 cm 40°		
		457733	139.00	140.00	1.00	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 5% Po IG VN 2% Py SUB VN 0.1% As AL VN 0.1% Cp DI VN; 10% I1N SR AK 8 cm 40°		
		457734	140.00	141.00	1.00	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 5% Po IG VN 2% Py SUB VN 0.1% As AL VN 0.1% Cp DI VN; 10% I1N SR AK 8 cm 40°		
		457735	141.00	142.00	1.00	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 5% Po IG VN 2% Py SUB VN 0.1% As AL VN 0.1% Cp DI VN; 10% I1N SR AK 8 cm 40°		
		457736	142.00	143.00	1.00	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 5% Po IG VN 2% Py SUB VN 0.1% As AL VN 0.1% Cp DI VN; 10% I1N SR AK 8 cm 40°		
		457737	143.00	144.00	1.00	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 5% Po IG VN 2% Py SUB VN 0.1% As AL VN 0.1% Cp DI VN; 10% I1N SR AK 8 cm 40°		
		457738	144.00	144.90	0.90	S9C Sid; Chl-2 Sil-4 Ank-3 Ser-1; 5% Po IG VN 2% Py SUB VN 0.1% As AL VN 0.1% Cp DI VN; 10% I1N SR AK 8 cm 40°		
144.90	147.10	<b>S6g, Grey Shale</b>	456825	144.90	146.00	1.10	S6g; Sil-3 Ank-2; 5% Po IG VN 2% Py SUB VN; 10% I1N QZ AK 10 cm	
			456826	146.00	147.10	1.10	S6g; Sil-3 Ank-2; 5% Po IG VN 2% Py SUB VN; 10% I1N QZ AK 10 cm	
<b>Comments:</b>								

From	To	Lithology	Sample	From	To	Length	Comments
147.10	150.90	S6, Mudrock	456827	147.10	149.00	1.90	S6 GP; Sil-2 Carb-2; 10% Po IG BD 5% Py SUB BD; FLD 3
			456828	149.00	150.90	1.90	S6 GP; Sil-2 Carb-2; 10% Po IG BD 5% Py SUB BD; FLD 3
<b>Comments:</b>							
150.90	159.70	S9, Iron formation	457740	150.90	152.00	1.10	S9C Sid; Sil-3 Ank-2; 5% Po AL VN 1% Py SUB VN
			457741	152.00	153.00	1.00	S9C Sid; Sil-3 Ank-2; 5% Po AL VN 1% Py SUB VN 0.1% As DI VN; 90% I1N QZ AK 30 cm
			457742	153.00	154.00	1.00	S9C Sid; Sil-3 Ank-2; 3% Po DI PER 1% Py AL VN
			457743	154.00	155.00	1.00	S9C Sid; Sil-3 Ank-2; 3% Po DI PER 1% Py AL VN
			457744	155.00	156.00	1.00	S9C Sid; Sil-3 Ank-2; 3% Po DI PER 1% Py AL VN
			457745	156.00	157.00	1.00	S9C Sid; Sil-3 Ank-2; 3% Po DI PER 1% Py AL VN
			457747	157.00	158.00	1.00	S9C Sid; Sil-3 Ank-2; 3% Po DI PER 1% Py AL VN
			457748	158.00	159.00	1.00	S9C Sid; Sil-3 Ank-2; 3% Po DI PER 1% Py AL VN
			457749	159.00	159.70	0.70	S9C Sid; Sil-3 Ank-2; 3% Po DI PER 1% Py AL VN

From	To	Lithology	Sample	From	To	Length	Comments
159.70	226.00	S6, Mudrock	456830	159.70	161.00	1.30	S6 GP; Carb-1 Sil-1; 5% Po IG BD 2% Py SUB BD
			456831	161.00	163.00	2.00	S6 GP; Carb-1 Sil-1; 5% Po IG BD 2% Py SUB BD; FLD 3
			456832	163.00	165.00	2.00	S6 GP; Carb-1 Sil-1; 5% Po IG BD 2% Py SUB BD; FLD 3
			456833	165.00	167.00	2.00	S6 GP; Carb-1 Sil-1; 5% Po IG BD 2% Py SUB BD
			456834	167.00	169.00	2.00	S6 GP; Carb-1 Sil-1; 5% Po IG BD 2% Py SUB BD
			456835	169.00	171.00	2.00	S6 GP; Carb-1 Sil-1; 5% Po IG BD 2% Py SUB BD; BX 1
			456837	171.00	173.00	2.00	S6 GP; Carb-1 Sil-1; 5% Po IG BD 2% Py SUB BD
			456838	173.00	175.00	2.00	S6 GP; Carb-1 Sil-1; 5% Po IG BD 2% Py SUB BD
			456839	175.00	177.00	2.00	S6 GP; Carb-1 Sil-1; 5% Po IG BD 2% Py SUB BD
			456840	177.00	179.00	2.00	S6 GP; Carb-1 Sil-1
			456841	179.00	181.00	2.00	S6 GP; Carb-1 Sil-1; 2% Po IG BD 8% Py SUB BD
			456842	181.00	183.00	2.00	S6 GP; Carb-1 Sil-1; 2% Po IG BD 8% Py SUB BD
			456843	183.00	185.00	2.00	S6 GP; Carb-1 Sil-1; 2% Po IG BD 8% Py SUB BD
			456844	185.00	187.00	2.00	S6 GP; Carb-1 Sil-1; 2% Po IG BD 8% Py SUB BD
			456845	187.00	189.00	2.00	S6 GP; Carb-1 Sil-1; 2% Po IG BD 8% Py SUB BD
			456846	189.00	191.00	2.00	S6 GP; Carb-1 Sil-1; 2% Po IG BD 8% Py SUB BD
			456847	191.00	193.00	2.00	S6 GP; Carb-1 Sil-1; 2% Po IG BD 8% Py SUB BD
			456848	193.00	195.00	2.00	S6 GP; Carb-1 Sil-1; 5% Po DI BD 8% Py SUB BD
			456850	195.00	197.00	2.00	S6 GP; Carb-1 Sil-1; 5% Po DI BD 8% Py SUB BD
			456851	197.00	199.00	2.00	S6 GP; Carb-1 Sil-1; 5% Po DI BD 8% Py SUB BD
			456852	199.00	201.00	2.00	S6 GP; Carb-1 Sil-1; 5% Po DI BD 8% Py SUB BD
			456853	201.00	203.00	2.00	S6 GP; Carb-1 Sil-1; 5% Po DI BD 8% Py SUB BD
			456854	203.00	205.00	2.00	S6 GP; 5% Po DI BD 8% Py SUB BD
			456855	205.00	207.00	2.00	S6 GP; Carb-2 Sil-2; 5% Po DI BD 8% Py SUB BD
			456857	207.00	209.00	2.00	S6 GP; Carb-2 Sil-2; 5% Po DI BD 8% Py SUB BD
			456858	209.00	211.00	2.00	S6 GP; Carb-2 Sil-2; 5% Po DI BD 8% Py SUB BD
			456859	211.00	213.00	2.00	S6 GP; Carb-2 Sil-2; 5% Po DI BD 8% Py SUB BD
			456860	213.00	215.00	2.00	S6 GP
			456861	215.00	217.00	2.00	S6 GP
			456862	217.00	219.00	2.00	S6 GP
			456863	219.00	220.50	1.50	S6 GP
			456864	220.50	221.30	0.80	S6 GP
			456865	221.30	222.50	1.20	S10C
			456866	222.50	224.00	1.50	S6 GP
			456867	224.00	226.00	2.00	S6 GP

Comments:

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
16.00	344.30	-69.20	FM	Test Non-OK	
19.00	156.40	-69.40	FM	Test Non-OK	
22.00	224.20	-69.30	FM	Test Non-OK	
25.00	228.10	-69.30	FM	Test OK-Accept	
28.00	226.40	-69.40	FM	Test OK-Accept	
31.00	226.00	-69.10	FM	Test OK-Accept	
34.00	226.20	-69.10	FM	Test OK-Accept	
37.00	226.30	-69.10	FM	Test OK-Accept	
40.00	227.20	-69.10	FM	Test OK-Accept	
43.00	225.10	-69.30	FM	Test OK-Accept	
46.00	227.70	-69.00	FM	Test OK-Accept	
49.00	225.70	-69.30	FM	Test OK-Accept	
52.00	227.30	-69.10	FM	Test OK-Accept	
55.00	226.10	-69.10	FM	Test OK-Accept	
58.00	227.50	-69.20	FM	Test OK-Accept	
61.00	227.10	-69.00	FM	Test OK-Accept	
64.00	226.20	-69.10	FM	Test OK-Accept	
67.00	226.10	-69.10	FM	Test OK-Accept	
70.00	226.50	-69.10	FM	Test OK-Accept	
73.00	220.70	-69.10	FM	Test OK-Accept	
76.00	225.00	-69.10	FM	Test OK-Accept	
79.00	227.80	-69.00	FM	Test OK-Accept	
82.00	223.40	-68.80	FM	Test Non-OK	
85.00	221.50	-68.80	FM	Test Non-OK	
88.00	227.30	-69.00	FM	Test OK-Accept	
91.00	227.80	-68.90	FM	Test OK-Accept	
94.00	226.90	-68.70	FM	Test OK-Accept	
97.00	227.30	-68.80	FM	Test OK-Accept	
100.00	227.40	-68.80	FM	Test OK-Accept	
103.00	227.60	-68.80	FM	Test OK-Accept	
106.00	227.40	-68.80	FM	Test OK-Accept	
109.00	228.20	-68.70	FM	Test OK-Accept	
112.00	227.20	-68.80	FM	Test OK-Accept	
115.00	227.90	-68.50	FM	Test OK-Accept	
118.00	228.90	-68.50	FM	Test OK-Accept	
121.00	228.80	-68.50	FM	Test OK-Accept	
124.00	229.10	-68.50	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
127.00	228.50	-68.60	FM	Test OK-Accept	
130.00	226.50	-68.30	FM	Test OK-Accept	
133.00	227.80	-68.50	FM	Test OK-Accept	
136.00	228.20	-68.40	FM	Test OK-Accept	
139.00	226.10	-68.50	FM	Test OK-Accept	
142.00	229.60	-68.30	FM	Test OK-Accept	
145.00	227.80	-68.30	FM	Test OK-Accept	
148.00	227.70	-68.20	FM	Test OK-Accept	
151.00	228.40	-68.30	FM	Test OK-Accept	
154.00	227.70	-68.40	FM	Test OK-Accept	
157.00	228.40	-68.10	FM	Test OK-Accept	
160.00	226.60	-68.20	FM	Test OK-Accept	
163.00	226.80	-68.30	FM	Test OK-Accept	
166.00	227.60	-68.20	FM	Test OK-Accept	
169.00	229.00	-68.20	FM	Test OK-Accept	
172.00	222.70	-68.10	FM	Test OK-Accept	
175.00	217.80	-68.30	FM	Test Non-OK	
178.00	227.20	-68.20	FM	Test OK-Accept	
181.00	226.10	-68.20	FM	Test OK-Accept	
184.00	225.20	-68.30	FM	Test Non-OK	
187.00	228.40	-68.20	FM	Test OK-Accept	
190.00	225.90	-68.10	FM	Test OK-Accept	
193.00	227.20	-68.00	FM	Test OK-Accept	
196.00	227.80	-68.20	FM	Test OK-Accept	
199.00	226.70	-68.10	FM	Test OK-Accept	
202.00	225.20	-68.10	FM	Test Non-OK	
205.00	225.40	-67.90	FM	Test Non-OK	
208.00	229.60	-68.00	FM	Test OK-Accept	
211.00	228.20	-67.80	FM	Test OK-Accept	
214.00	228.90	-67.70	FM	Test OK-Accept	
217.00	229.30	-67.70	FM	Test OK-Accept	
220.00	228.90	-67.70	FM	Test OK-Accept	
223.00	220.00	-67.70	FM	Test Non-OK	
226.00	228.20	-67.60	FM	Test OK-Accept	

Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
16.00	23.00	S6	BD	CS			S6 GP			BK		1	Aph		50.00	DIF	
23.00	25.50	S6	BD	RU			S6 GP			BK		2	Aph			DIF	S9 sulfuré? very strong bedded texture.
25.50	30.80	S6	BD				S6 GP			BK		1	Aph			VN	
30.80	40.10	S9	RU	MA			S10	25.00	Carbonate	BG		3	FG		55.00	SHP	
40.10	56.50	S9	BD				S9C Sid	10.00	Carbonate	BG	GM	3	FG				Core not recuperated from 52.2 to 53.1 meters. Visible gold observed at 51.8 metres.
56.50	65.10	S6g	CS	RU			S6g GP			GM	VM	3	FG		75.00	DIF	silicified grey shale with banded cm texture
65.10	84.00	S6	BD	CS			S6 GP			BK		1	Aph		73.00	DIF	
84.00	109.40	S9	BD	BX	HK		S9C Ank	5.00	Carbonate	BG	GM	3	FG		80.00	DIF	Contains 3-5% mm tension quartz veins; and presence of mm to cm qz-cb elongated fragments. Disseminated very fine <1mm pyrrhotite, throughout rock.
109.40	113.10	S6	BD	HJ			S6			BK		2	Aph				contains 5% mm quartz-carbonate nodules / pseudomorphs of porphyroblastic mineral? maybe cordierite or andalousite?
113.10	118.20	I3A	PI	MA			I3A Chl-Ank			VM		2	MG			VN	
118.20	125.50	S9	RU	BX			S9C Sid	5.00	Silica	GM		3	FG			DIF	
125.50	126.40	S9	BD				S6 GP			BK		3	Aph			DIF	
126.40	131.00	S9	BD	CS			S9C Sid			GM		3	FG			DIF	
131.00	133.60	S9	BD				S6g GP			BK		3	Aph			DIF	
133.60	144.90	S9	RU	IU			S9C Sid	8.00	Silica	GM		3	FG		58.00	DIF	Injected with 10% quartz-chlorite-sericite-ankerite veins 5-7cm wide (tru width). Arsenopyrite (6262ppm As) at 142.9 metres.
144.90	147.10	S6g	BD	CS			S6g			GL	GM	2	FG		80.00	SHP	
147.10	150.90	S6	BD	CS			S6 GP			BK		1	Aph		70.00	SHP	

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
150.90	159.70	S9	BD	BX			S9C Sid	3.00	Sulphide	GM	BG	3	FG		50.00	DIF	sulphide chert bands at lower contact with underlying black shale, siliceous chert bands (centimetric) throughout interval.
159.70	221.30	S6	BD	BX			S6 GP			BK		1	Aph		78.00	SHP	
221.30	222.50	S6	BD	RU			S10C	2.00	Sulphide	WH	BG	3	Aph		80.00	SHP	
222.50	226.00	S6	IU				S6 GP			BK		1	Aph			NA	

Mineralization Data																		
From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3	
16.00	29.60		Po	7.00	IG	BD		Py	5.00	SUB	BD							
29.60	30.80		Po	8.00	IG	VN		Py	7.00	IG	VN							
30.80	40.10		Po	3.00	DI	BD												
40.10	45.00		Po	2.00	DI	PER												
45.00	51.00		Po	3.00	AL	VN	interstitial clusters of pyrrhotite, mm to cm, in quartz-ankerite-chlorite veinlets (centimetric)											
51.00	52.10		Vg	0.01	DI	VN	visible gold at 51.8metres, in qz-ak-cl vein at 40CA	Po	3.00	IG	VN							
52.10	54.00		Po	3.00	IG	VN												
54.00	56.50		Po	1.00	IG	VN												
56.50	65.10		Po	0.50	LA	BD	trace to 1% <1mm fine lamines of pyrrhotite controlled within schisto/bedding											
65.10	84.00		Po	5.00	IG	BD		Py	1.00	SUB	BD							
84.00	85.00		Po	10.00	DI	CTC	Very fine <1mm pyrrhotite disseminated throughout host rock, pervasive, located at contact with overlying black shale.											
85.00	106.00		Po	2.00	DI	PER		Py	1.00	SUB	PER							
106.00	109.40		Po	1.00	AL	VN												
109.40	113.00		Po	3.00	AL	VN												
113.00	123.00		Po	2.00	AL	VN												
123.00	125.50		Po	5.00	AL	VN	pyrrhotite in qz-ak-chl veins											
125.50	126.40		Po	5.00	IG	SCH		Py	5.00	IG	SCH							
126.40	133.60		Po	3.00	IG	VN		Py	1.00	SUB	VN							
133.60	144.90		Po	5.00	IG	VN		Py	2.00	SUB	VN		As	0.10	AL	VN		
144.90	147.10		Po	5.00	IG	VN		Py	2.00	SUB	VN							
147.10	150.90		Po	10.00	IG	BD		Py	5.00	SUB	BD							
150.90	152.00		Po	5.00	AL	VN		Py	1.00	SUB	VN							
152.00	153.00		Po	5.00	AL	VN		Py	1.00	SUB	VN		As	0.10	DI	VN		
153.00	159.70		Po	3.00	DI	PER		Py	1.00	AL	VN							
159.70	178.00		Po	5.00	IG	BD		Py	2.00	SUB	BD							
178.00	193.00		Po	2.00	IG	BD		Py	8.00	SUB	BD							
193.00	214.00		Po	5.00	DI	BD	fine mm disseminated pyrrhotite located in centimetric chert beds	Py	8.00	SUB	BD							



Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
16.00	30.80	Carb	1	VN	Sil	1	VN				
30.80	40.10	Carb	2	CTL	Ank	1	VN				
40.10	43.00	Sil	4	PEN	Sid	3	VN				disseminated siderite grains, <1mm, in quartz veins
43.00	45.00	Sil	2	PEN							
45.00	56.50	Sil	2	VN	Chl	3	VN	Ank	3	VN	alteration is mainly associated with quartz veins, but diffuse into the host rock as well
56.50	83.70	Carb	1	VN							
83.70	84.00	Sil	3	PEN							
84.00	85.00	Sil	4	PEN							
85.00	106.50	Sil	2	VN	Ank	2	VN				
106.50	109.40	Sil	4	VN	Ank	3	VN	Chl	1	VN	
109.40	113.00	Sil	1	VN	Carb	1	VN	Sil	1	PEN	
113.00	118.20	Ank	3	DI							
118.20	125.50	Sil	3	VN	Sil	2	PEN	Chl	2	VN	
125.50	126.40	Sil	3	PEN	Carb	1	VN				
126.40	144.90	Chl	2	VN	Sil	4	VN	Ank	3	VN	
144.90	147.10	Sil	3	VN	Ank	2	DI				
147.10	150.90	Sil	2	VN	Carb	2	VN				
150.90	159.70	Sil	3	PEN	Ank	2	VN				
159.70	203.50	Carb	1	VN	Sil	1	VN				
203.50	214.00	Carb	2	VN	Sil	2	VN				

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
29.60	30.80	30.00	10.00	I1N		Vein >5cm	QZ	95.00	GP	5.00						Po	5.00	Py	5.00	
45.00	47.10	2.00	1.00	I1N		Veinlet <5cm	QZ	50.00	CL	3.00	AK	47.00								
110.90	111.10	100.00	15.00	I1N		Vein >5cm	QZ	80.00	AK	15.00						Po	5.00			
133.60	144.90	10.00	8.00	I1N		Vein >5cm	SR	2.00	AK	5.00	CL	3.00			40.00	Po	3.00	As	0.10	
144.90	147.10	10.00	10.00	I1N		Vein >5cm	QZ	88.00	AK	5.00	CL	3.00				Po	4.00			
152.00	152.50	90.00	30.00	I1N		Vein >5cm	QZ	88.00	AK	8.00						Po	5.00	Py	1.00	

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
28.55	28.65	FLD	4	58.00	Axial plane at 58 CA
52.20	53.10	BC	5		Core not recovered
147.10	150.90	FLD	3	80.00	
160.00	166.00	FLD	3	80.00	
169.00	172.90	BX	1		

## Oriented Structure Data

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
20.30	S2		49.00	160.00	201.60	-69.33	-22.52	75.74	0.00	165.74			
24.90	S0		83.00	51.00	227.25	-69.35	-25.61	329.91	0.00	59.91			
28.30	S0		65.00	325.00	226.07	-69.15	-43.64	295.50	0.00	25.50			
28.60	AxialPlane		58.00										
34.00	S0		63.00	54.00	226.45	-69.10	-42.51	349.38	0.00	79.38			
45.50	VN		31.00										
46.60	S0		50.00										
50.50	VN		41.00										
56.20	S0		54.00										
56.50	CNT		65.00										
59.60	S0		60.00										
64.00	S0		47.00										
65.10	CNT		75.00										
67.00	S0		62.00	283.00	225.93	-69.07	-38.10	268.09	0.00	358.09			
69.85	S0		70.00										
77.10	S0		65.00	166.00	227.55	-68.95	-6.73	76.76	0.00	166.76			
81.90	S0		85.00	94.00	227.03	-68.73	-21.48	330.77	0.00	60.77			
84.00	CNT		73.00										
84.45	VN		35.00	40.00	227.33	-68.80	-72.07	350.93	0.00	80.93			
85.80	VN		42.00										
88.50	S0		85.00	133.00	227.57	-68.80	-18.15	329.38	0.00	59.38			
92.50	S0		64.00	20.00	227.80	-68.75	-46.50	329.73	0.00	59.73			
97.30	S0		62.00	302.00	227.55	-68.65	-42.96	281.81	0.00	11.81			
103.20	S0		67.00	10.00	228.82	-68.50	-44.32	324.39	0.00	54.39			
109.00	S0		76.00	23.00	228.17	-68.55	-34.75	327.71	0.00	57.71			
118.50	S2		64.00	54.00	226.45	-68.48	-42.13	348.37	0.00	78.37			
127.70	S0		63.00	346.00	228.17	-68.27	-48.35	309.71	0.00	39.71			
128.80	VN		46.00	348.00	228.28	-68.32	-65.33	309.14	0.00	39.14			
128.80	VN		20.00	166.00	228.28	-68.32	-49.10	120.78	0.00	210.78			
129.30	S0		54.00										
132.90	S0		64.00										
142.90	VN		40.00										
144.60	VN		52.00	22.00	225.85	-68.15	-58.74	331.50	0.00	61.50			
145.00	S0		58.00	34.00	225.85	-68.15	-51.42	338.13	0.00	68.13			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
145.90	S0		65.00										
147.10	CNT		80.00										
150.90	CNT		78.00										
154.20	S0		65.00										
157.70	VN		48.00	158.00	227.33	-68.23	-23.04	97.51	0.00	187.51			
158.10	S0		65.00	325.00	227.87	-68.22	-44.51	297.64	0.00	27.64			
163.20	S2		56.00										
164.20	AxialPlane		80.00										
166.70	AxialPlane		72.00										
170.70	S0		61.00	176.00	225.45	-68.10	-7.30	120.02	0.00	210.02			
178.70	S0		64.00										
184.20	S0		64.00										
193.00	S0		53.00	44.00	228.20	-67.60	-55.01	348.88	0.00	78.88			
193.10	AxialPlane		65.00	24.00	228.20	-67.60	-46.31	331.95	0.00	61.95			
193.11			65.00	24.00	228.20	-67.60	-46.31	331.95	0.00	61.95	97.00	FAXIS	
198.20	S0		59.00										
199.00	S0		61.00	24.00	228.20	-67.60	-50.22	333.07	0.00	63.07			
202.00	S0		80.00	50.00	228.20	-67.60	-29.78	333.74	0.00	63.74			
203.70	S0		50.00										
208.00	S0		60.00	16.00	228.20	-67.60	-51.86	328.29	0.00	58.29			
210.80	S0		60.00										
211.00	AxialPlane		70.00	18.00	228.20	-67.60	-41.86	327.31	0.00	57.31			
211.01			70.00	18.00	228.20	-67.60	-41.86	327.31	0.00	57.31	78.00	FAXIS	
211.70	S2		52.00										
216.20	S0		60.00	210.00	228.20	-67.60	-15.05	212.49	0.00	302.49			
218.10	AxialPlane		62.00										
221.70	S0		67.00										
224.00	VN		74.00	0.00	228.20	-67.60	-38.40	318.20	0.00	48.20			
225.99			68.00	42.00	228.20	-67.60	-41.31	340.52	0.00	70.52	84.00	FAXIS	
226.00	AxialPlane		68.00	42.00	228.20	-67.60	-41.31	340.52	0.00	70.52			

**Sample Data - ASSAY**

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm	Ag ppm	As ppm	Cu ppm	Fe pct	Mn ppm	Hg ppm	V ppm	Mo ppm	Ni ppm	Zn ppm
456797	15.00	17.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.014	0.760	46.60	74.50	7.51	85.0	0.124	172.00	11.35	100.50	372.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456798	17.00	19.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.009	0.480	25.60	73.30	7.18	263.0	0.079	177.00	12.05	85.80	504.00
456799	19.00	21.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.016	0.500	40.60	99.20	9.69	237.0	0.120	160.00	9.33	105.00	427.00
456800	21.00	23.00	2.00	2	VO18168887 - Finalized	30/07/2018	0.008	0.450	32.60	90.00	8.58	322.0	0.115	161.00	9.84	96.90	424.00
456801	23.00	25.00	2.00	2	VO18168889 - Finalized	28/07/2018	0.064	1.240	98.90	95.10	14.25	152.0	0.432	195.00	15.75	139.50	823.00
456802	25.00	27.00	2.00	2	VO18168889 - Finalized	28/07/2018	0.024	1.070	12.50	297.00	24.70	1,270.0	0.169	101.00	11.70	170.00	1 080.00
456803	27.00	29.00	2.00	2	VO18168889 - Finalized	28/07/2018	0.024	1.460	10.70	333.00	26.20	256.0	0.232	142.00	17.80	176.50	1 080.00
456804	29.00	30.80	1.80	2	VO18168889 - Finalized	28/07/2018	0.006	0.620	22.40	190.00	22.70	263.0	0.055	149.00	15.75	111.50	153.00
457651	30.80	32.00	1.20	2	VO18168874 - Finalized	27/07/2018	0.001	0.070	1.90	15.00	23.60	9,130.0	0.003	9.00	0.16	4.20	35.00
457652	32.00	33.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.001	0.010	1.20	1.10	24.90	11,000.0	0.003	5.00	0.07	0.90	11.00
457653	33.00	34.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.001	0.010	3.00	1.00	24.20	16,250.0	0.003	5.00	0.06	1.00	11.00
457654	34.00	35.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.001	0.010	3.60	1.30	25.20	12,900.0	0.003	7.00	0.07	0.90	10.00
457655	35.00	36.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.001	0.030	1.60	5.40	25.30	9,430.0	0.003	8.00	0.05	2.50	12.00
457656	36.00	37.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.002	0.010	2.20	2.20	24.70	8,850.0	0.003	8.00	0.07	0.80	13.00
457657	37.00	38.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.004	0.030	17.00	2.20	26.20	7,220.0	0.009	8.00	0.06	0.70	16.00
457658	38.00	39.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.001	0.010	1.20	1.30	27.30	7,700.0	0.003	7.00	0.10	0.90	16.00
457660	39.00	40.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.001	0.010	4.90	0.70	27.50	8,120.0	0.006	9.00	0.07	0.80	12.00
457661	40.00	41.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.001	0.010	3.80	0.90	27.60	18,600.0	0.007	11.00	0.06	1.40	6.00
457662	41.00	42.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.001	0.010	10.70	1.00	25.80	11,550.0	0.008	7.00	0.06	1.40	2.00
457663	42.00	43.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.014	0.010	7.70	1.20	24.50	7,940.0	0.007	6.00	0.07	1.30	4.00
457664	43.00	44.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.028	0.005	11.80	0.60	28.00	7,540.0	0.007	5.00	0.03	0.80	5.00
457665	44.00	45.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.236	1.720	1.80	1.60	28.00	4,820.0	0.006	5.00	0.03	0.60	8.00
457667	45.00	46.00	1.00	2	VO18168874 - Finalized	27/07/2018	1.760	0.030	124.00	2.30	26.80	6,620.0	0.022	6.00	0.05	0.60	13.00
457668	46.00	47.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.001	0.010	0.90	0.60	27.40	4,440.0	0.003	6.00	0.03	0.60	1.00
457669	47.00	48.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.001	0.010	17.00	0.60	26.60	5,040.0	0.003	5.00	0.09	0.80	1.00
457670	48.00	49.00	1.00	2	VO18168874 - Finalized	27/07/2018	0.003	0.020	2.70	0.90	23.40	4,390.0	0.003	7.00	0.05	0.90	1.00
457671	49.00	50.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.001	0.010	1.10	0.80	29.20	9,140.0	0.003	6.00	0.06	1.10	1.00
457672	50.00	51.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.001	0.010	2.40	0.70	25.10	6,850.0	0.003	7.00	0.07	0.70	4.00
457673	51.00	52.10	1.10	2	VO18168877 - Finalized	27/07/2018	0.991	0.060	17.20	2.10	26.30	6,770.0	0.006	8.00	0.06	0.90	14.00
457674	53.10	54.00	0.90	2	VO18168877 - Finalized	27/07/2018	0.001	0.010	1.80	0.70	25.00	7,040.0	0.005	5.00	0.07	0.80	2.00
457675	54.00	55.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.001	0.010	0.50	0.60	25.30	6,500.0	0.003	5.00	0.10	0.90	3.00
457676	55.00	56.50	1.50	2	VO18168877 - Finalized	27/07/2018	0.001	0.040	12.40	5.50	24.80	13,050.0	0.007	33.00	0.26	6.30	12.00
456805	56.50	58.00	1.50	2	VO18168889 - Finalized	28/07/2018	0.003	0.140	2.20	22.40	13.60	1,080.0	0.003	181.00	0.98	43.40	89.00
456806	58.00	60.00	2.00	2	VO18168889 - Finalized	28/07/2018	0.002	0.130	14.90	25.40	11.30	524.0	0.003	195.00	0.78	52.00	106.00
456807	60.00	62.00	2.00	2	VO18168889 - Finalized	28/07/2018	0.005	0.200	17.20	38.80	9.63	499.0	0.011	215.00	1.69	55.40	158.00
456808	62.00	64.00	2.00	2	VO18168889 - Finalized	28/07/2018	0.001	0.120	34.20	41.20	6.95	1,020.0	0.010	117.00	3.69	40.80	143.00
456810	64.00	65.10	1.10	2	VO18168889 - Finalized	28/07/2018	0.002	0.340	22.30	77.70	9.17	825.0	0.024	211.00	2.79	71.90	153.00
456811	65.10	67.00	1.90	2	VO18168889 - Finalized	28/07/2018	0.071	1.290	140.00	86.50	15.45	349.0	0.414	309.00	25.30	153.00	1 320.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456812	67.00	69.00	2.00	2	VO18168889 - Finalized	28/07/2018	0.084	1.330	181.00	62.60	14.95	420.0	0.547	393.00	37.80	161.50	1 420.00
456813	69.00	71.00	2.00	2	VO18168889 - Finalized	28/07/2018	0.050	0.830	101.00	92.70	11.55	676.0	0.304	246.00	18.80	124.50	862.00
456814	71.00	73.00	2.00	2	VO18168889 - Finalized	28/07/2018	0.037	0.750	114.00	108.00	10.95	414.0	0.414	448.00	45.10	140.00	1 560.00
456815	73.00	75.00	2.00	2	VO18168889 - Finalized	28/07/2018	0.050	1.540	161.00	383.00	19.00	2,340.0	0.434	1 000.00	116.50	335.00	2 520.00
456817	75.00	77.00	2.00	2	VO18168889 - Finalized	28/07/2018	0.062	1.890	141.00	280.00	14.45	3,020.0	0.464	1 170.00	135.00	257.00	2 730.00
456818	77.00	79.00	2.00	2	VO18168889 - Finalized	28/07/2018	0.042	1.270	244.00	351.00	17.75	4,440.0	0.168	771.00	96.90	273.00	933.00
456819	79.00	81.00	2.00	2	VO18168889 - Finalized	28/07/2018	0.053	1.340	93.60	221.00	15.10	503.0	0.470	886.00	99.50	202.00	2 230.00
456820	81.00	83.00	2.00	2	VO18168889 - Finalized	28/07/2018	0.072	1.240	113.00	144.50	16.20	387.0	0.349	197.00	15.90	123.50	710.00
456821	83.00	84.00	1.00	2	VO18168891 - Finalized	26/07/2018	0.038	1.130	49.70	258.00	21.70	1,060.0	0.139	122.00	12.65	103.50	781.00
457677	84.00	85.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.005	0.650	62.20	228.00	16.65	4,880.0	0.021	34.00	1.65	55.10	28.00
457678	85.00	86.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.002	0.350	139.00	115.00	19.25	5,590.0	0.012	30.00	0.81	30.50	21.00
457680	86.00	87.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.001	0.020	8.50	3.30	18.55	4,800.0	0.003	20.00	0.99	5.50	7.00
457681	87.00	88.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.001	0.010	4.90	1.40	18.35	4,690.0	0.003	9.00	0.28	3.60	11.00
457682	88.00	89.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.001	0.010	4.70	1.80	19.80	5,420.0	0.003	18.00	0.25	4.00	5.00
457683	89.00	90.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.001	0.010	4.60	1.70	24.20	6,960.0	0.003	13.00	0.18	3.90	5.00
457684	90.00	91.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.040	0.020	5.10	2.30	21.90	6,100.0	0.003	17.00	0.22	4.30	4.00
457685	91.00	92.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.001	0.020	7.80	3.00	21.70	7,800.0	0.003	22.00	0.33	4.80	4.00
457687	92.00	93.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.002	0.020	2.30	1.50	21.40	7,310.0	0.011	10.00	0.17	3.20	4.00
457688	93.00	94.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.001	0.010	1.70	2.20	22.90	9,100.0	0.003	18.00	0.29	4.80	8.00
457689	94.00	95.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.001	0.010	3.00	1.20	21.80	7,930.0	0.003	16.00	0.27	5.10	8.00
457690	95.00	96.00	1.00	2	VO18168877 - Finalized	27/07/2018	0.002	0.010	0.50	2.00	26.20	6,690.0	0.003	5.00	0.05	1.30	12.00
457691	96.00	97.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.001	0.005	1.10	1.10	22.30	4,340.0	0.008	4.00	0.08	1.00	18.00
457692	97.00	98.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.001	0.010	7.40	1.20	25.50	8,780.0	0.005	14.00	0.24	4.20	6.00
457693	98.00	99.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.001	0.010	1.80	0.70	22.80	5,360.0	0.003	8.00	0.11	1.50	3.00
457694	99.00	100.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.001	0.010	1.10	0.90	26.00	4,580.0	0.003	8.00	0.08	1.10	3.00
457695	100.00	101.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.001	0.005	0.70	0.60	25.10	6,420.0	0.003	7.00	0.06	1.40	2.00
457696	101.00	102.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.001	0.005	0.10	0.60	24.50	6,850.0	0.003	5.00	0.07	0.80	2.00
457697	102.00	103.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.001	0.005	0.60	0.60	24.80	5,530.0	0.003	7.00	0.06	4.30	2.00
457698	103.00	104.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.001	0.005	0.60	0.90	25.20	6,110.0	0.003	6.00	0.06	1.10	6.00
457700	104.00	105.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.001	0.005	0.70	0.60	23.80	5,820.0	0.003	8.00	0.07	1.00	2.00
457701	105.00	106.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.001	0.010	0.70	0.80	24.80	5,670.0	0.003	7.00	0.06	1.00	3.00
457702	106.00	107.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.087	0.130	31.20	5.70	25.50	6,610.0	0.003	7.00	0.06	2.10	13.00
457703	107.00	108.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.001	0.010	4.90	4.30	20.10	8,240.0	0.003	34.00	0.56	6.40	14.00
457704	108.00	109.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.001	0.020	2.00	4.10	16.40	9,930.0	0.003	31.00	0.27	7.40	9.00
457705	109.00	110.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.006	0.160	7.00	26.70	19.50	9,290.0	0.003	82.00	2.74	28.30	59.00
457707	110.00	111.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.020	0.320	79.20	65.80	10.60	1,440.0	0.007	171.00	1.80	52.50	132.00
457708	111.00	112.00	1.00	2	VO18168878 - Finalized	29/07/2018	0.023	0.270	258.00	67.00	6.95	376.0	0.015	204.00	3.07	46.70	78.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457709	112.00	113.10	1.10	2	VO18168878 - Finalized	29/07/2018	0.026	0.280	275.00	76.00	6.71	287.0	0.014	238.00	7.08	50.80	151.00
456822	113.10	115.00	1.90	2	VO18168891 - Finalized	26/07/2018	0.001	0.080	69.40	43.80	8.70	1,210.0	0.006	303.00	0.64	67.60	194.00
456823	115.00	117.00	2.00	2	VO18168891 - Finalized	26/07/2018	0.003	0.100	101.00	63.90	8.60	1,720.0	0.005	301.00	0.27	91.70	208.00
456824	117.00	118.20	1.20	2	VO18168891 - Finalized	26/07/2018	0.001	0.020	107.50	13.40	8.58	2,000.0	0.005	313.00	0.49	93.70	245.00
457710	118.20	119.00	0.80	2	VO18168878 - Finalized	29/07/2018	0.014	0.210	3.20	61.90	8.46	412.0	0.011	245.00	4.75	50.30	184.00
457711	119.00	120.00	1.00	2	VO18168879 - Finalized	30/07/2018	0.009	0.210	38.20	62.20	15.00	3,880.0	0.012	220.00	5.39	32.30	270.00
457712	120.00	121.00	1.00	2	VO18168879 - Finalized	30/07/2018	0.084	0.070	7.60	14.70	20.70	12,700.0	0.003	45.00	0.28	10.00	62.00
457713	121.00	122.00	1.00	2	VO18168879 - Finalized	30/07/2018	0.001	0.030	4.00	3.10	17.95	10,300.0	0.003	35.00	0.32	8.30	36.00
457714	122.00	123.00	1.00	2	VO18168879 - Finalized	30/07/2018	0.001	0.040	6.50	7.10	25.20	7,460.0	0.003	21.00	0.14	3.70	42.00
457715	123.00	124.00	1.00	2	VO18168879 - Finalized	30/07/2018	0.011	0.090	0.50	18.00	27.20	6,830.0	0.003	12.00	0.07	5.10	49.00
457716	124.00	125.00	1.00	2	VO18168879 - Finalized	30/07/2018	0.004	0.120	0.60	30.50	31.40	8,430.0	0.003	11.00	0.05	8.20	63.00
457717	125.00	125.50	0.50	2	VO18168879 - Finalized	30/07/2018	0.006	0.450	0.70	109.50	32.10	12,500.0	0.003	24.00	1.18	38.90	134.00
457718	125.50	126.40	0.90	2	VO18168879 - Finalized	30/07/2018	0.081	1.040	12.40	183.00	21.30	1,260.0	0.052	124.00	17.05	76.60	143.00
457720	126.40	127.00	0.60	2	VO18168879 - Finalized	30/07/2018	0.017	0.060	4.20	11.30	11.35	3,290.0	0.003	13.00	0.65	3.90	28.00
457721	127.00	128.00	1.00	2	VO18168879 - Finalized	30/07/2018	0.029	0.060	1.70	8.20	17.00	4,510.0	0.003	18.00	0.23	5.60	38.00
457722	128.00	129.00	1.00	2	VO18168879 - Finalized	30/07/2018	0.139	0.090	0.90	17.10	23.40	6,680.0	0.003	21.00	0.24	8.40	30.00
457723	129.00	130.00	1.00	2	VO18168879 - Finalized	30/07/2018	0.026	0.020	1.00	3.80	22.50	8,530.0	0.003	33.00	0.37	7.60	26.00
457724	130.00	131.00	1.00	2	VO18168879 - Finalized	30/07/2018	0.007	0.030	3.80	9.30	19.00	8,300.0	0.005	31.00	0.38	8.90	12.00
457725	131.00	132.00	1.00	2	VO18168879 - Finalized	30/07/2018	0.021	0.240	19.80	29.80	13.45	1,940.0	0.003	185.00	1.82	50.30	102.00
457727	132.00	133.60	1.60	2	VO18168879 - Finalized	30/07/2018	0.019	0.220	12.30	31.70	11.55	1,000.0	0.011	198.00	3.54	49.80	155.00
457728	133.60	135.00	1.40	2	VO18168879 - Finalized	30/07/2018	0.017	0.010	0.40	3.40	27.40	6,700.0	0.003	8.00	0.05	1.10	12.00
457729	135.00	136.00	1.00	2	VO18168879 - Finalized	30/07/2018	0.450	0.020	0.50	3.50	26.30	6,030.0	0.039	7.00	0.05	1.10	17.00
457730	136.00	137.00	1.00	2	VO18168879 - Finalized	30/07/2018	0.157	0.020	0.70	4.80	26.10	6,350.0	0.003	7.00	0.06	1.20	17.00
457731	137.00	138.00	1.00	2	VO18173841 - Finalized	09/08/2018	0.273	0.040	0.40	19.20	21.30	6,020.0	0.003	8.00	0.03	1.50	26.00
457732	138.00	139.00	1.00	2	VO18173841 - Finalized	09/08/2018	1.530	0.070	2.10	12.00	26.20	6,580.0	0.062	8.00	0.03	1.10	25.00
457733	139.00	140.00	1.00	2	VO18173841 - Finalized	09/08/2018	1.055	0.170	0.70	11.80	24.80	6,700.0	0.011	8.00	0.03	1.10	26.00
457734	140.00	141.00	1.00	2	VO18173841 - Finalized	09/08/2018	0.021	0.010	0.10	5.50	27.40	7,580.0	0.003	6.00	0.03	1.20	17.00
457735	141.00	142.00	1.00	2	VO18173841 - Finalized	09/08/2018	0.042	0.010	0.10	4.80	28.10	7,410.0	0.003	6.00	0.03	1.20	21.00
457736	142.00	143.00	1.00	2	VO18173841 - Finalized	09/08/2018	0.335	0.030	153.50	12.40	20.10	5,220.0	0.005	8.00	0.03	2.70	27.00
457737	143.00	144.00	1.00	2	VO18173841 - Finalized	09/08/2018	0.027	0.040	0.30	10.50	31.00	7,930.0	0.003	7.00	0.03	1.50	35.00
457738	144.00	144.90	0.90	2	VO18173841 - Finalized	09/08/2018	0.010	0.080	1.80	18.10	24.10	7,230.0	0.003	19.00	0.89	5.30	43.00
456825	144.90	146.00	1.10	2	VO18168891 - Finalized	26/07/2018	0.003	0.010	42.20	3.10	9.62	1,080.0	0.003	213.00	0.71	76.50	172.00
456826	146.00	147.10	1.10	2	VO18168891 - Finalized	26/07/2018	0.007	0.290	6.70	80.50	12.10	2,590.0	0.013	57.00	7.25	31.90	91.00
456827	147.10	149.00	1.90	2	VO18168891 - Finalized	26/07/2018	0.043	1.110	18.80	218.00	23.20	399.0	0.078	159.00	18.50	124.00	446.00
456828	149.00	150.90	1.90	2	VO18168891 - Finalized	26/07/2018	0.054	1.160	5.60	219.00	23.10	324.0	0.124	187.00	17.65	118.50	924.00
457740	150.90	152.00	1.10	2	VO18173841 - Finalized	09/08/2018	0.028	0.930	18.60	185.50	20.90	1,680.0	0.077	113.00	11.15	111.00	637.00
457741	152.00	153.00	1.00	2	VO18173841 - Finalized	09/08/2018	0.019	0.690	12.70	182.50	20.80	4,940.0	0.030	84.00	8.31	80.20	206.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457742	153.00	154.00	1.00	2	VO18173841 - Finalized	09/08/2018	0.004	0.230	5.20	47.50	22.50	11,900.0	0.003	21.00	0.37	21.40	79.00
457743	154.00	155.00	1.00	2	VO18173841 - Finalized	09/08/2018	0.002	0.050	8.50	9.10	20.70	8,350.0	0.003	16.00	0.27	6.00	44.00
457744	155.00	156.00	1.00	2	VO18173841 - Finalized	09/08/2018	0.009	0.180	19.90	31.80	22.00	6,480.0	0.003	40.00	2.29	15.10	142.00
457745	156.00	157.00	1.00	2	VO18173841 - Finalized	09/08/2018	0.002	0.050	32.00	4.90	18.55	4,280.0	0.005	9.00	0.63	4.90	58.00
457747	157.00	158.00	1.00	2	VO18173841 - Finalized	09/08/2018	0.001	0.030	15.80	4.30	13.50	3,280.0	0.003	10.00	0.51	3.30	53.00
457748	158.00	159.00	1.00	2	VO18173841 - Finalized	09/08/2018	0.004	0.340	98.10	46.50	15.05	4,070.0	0.005	20.00	2.54	18.60	104.00
457749	159.00	159.70	0.70	2	VO18173841 - Finalized	09/08/2018	0.005	0.750	26.80	139.50	16.25	6,750.0	0.010	22.00	1.10	51.00	82.00
456830	159.70	161.00	1.30	2	VO18168891 - Finalized	26/07/2018	0.018	1.340	7.10	228.00	19.50	594.0	0.081	186.00	15.40	95.60	515.00
456831	161.00	163.00	2.00	2	VO18168891 - Finalized	26/07/2018	0.024	1.550	4.80	200.00	18.35	183.0	0.129	259.00	23.80	106.50	790.00
456832	163.00	165.00	2.00	2	VO18168891 - Finalized	26/07/2018	0.036	1.970	10.00	252.00	19.45	133.0	0.194	271.00	24.40	138.50	1 320.00
456833	165.00	167.00	2.00	2	VO18168891 - Finalized	26/07/2018	0.030	1.880	34.90	253.00	19.20	208.0	0.158	249.00	25.70	138.50	1 040.00
456834	167.00	169.00	2.00	2	VO18168891 - Finalized	26/07/2018	0.023	1.940	27.40	370.00	22.90	442.0	0.111	233.00	24.70	231.00	680.00
456835	169.00	171.00	2.00	2	VO18168891 - Finalized	26/07/2018	0.047	2.360	115.00	244.00	19.15	290.0	0.489	1 710.00	150.00	248.00	2 700.00
456837	171.00	173.00	2.00	2	VO18168891 - Finalized	26/07/2018	0.068	2.690	209.00	231.00	15.90	741.0	0.699	1 440.00	144.00	348.00	3 160.00
456838	173.00	175.00	2.00	2	VO18168891 - Finalized	26/07/2018	0.044	2.000	237.00	178.50	15.15	1,180.0	0.717	1 340.00	126.50	344.00	2 560.00
456839	175.00	177.00	2.00	2	VO18168891 - Finalized	26/07/2018	0.054	1.680	187.00	267.00	12.60	978.0	0.553	1 190.00	124.50	352.00	2 210.00
456840	177.00	179.00	2.00	2	VO18168891 - Finalized	26/07/2018	0.030	1.340	203.00	169.00	14.45	754.0	0.642	938.00	101.50	261.00	2 130.00
456841	179.00	181.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.040	0.910	137.50	82.60	11.95	873.0	0.357	244.00	19.35	128.50	880.00
456842	181.00	183.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.023	0.730	93.10	126.00	11.10	189.0	0.196	209.00	15.30	145.00	722.00
456843	183.00	185.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.025	0.870	104.50	110.50	11.00	294.0	0.248	222.00	16.40	122.00	822.00
456844	185.00	187.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.027	0.830	111.50	97.80	10.90	128.0	0.292	206.00	15.05	132.50	852.00
456845	187.00	189.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.094	0.760	75.10	119.50	10.60	233.0	0.209	182.00	13.30	118.00	616.00
456846	189.00	191.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.015	0.670	61.40	115.50	10.00	220.0	0.148	175.00	11.85	101.00	342.00
456847	191.00	193.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.028	0.750	84.60	126.00	11.45	288.0	0.236	174.00	13.65	135.50	798.00
456848	193.00	195.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.039	1.090	163.50	96.10	14.20	241.0	0.405	289.00	27.20	166.00	1 120.00
456850	195.00	197.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.044	1.170	168.50	69.50	14.00	259.0	0.475	280.00	30.10	159.50	1 060.00
456851	197.00	199.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.053	1.410	193.00	84.10	15.55	378.0	0.613	373.00	41.80	169.50	1 540.00
456852	199.00	201.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.054	1.460	184.50	93.30	15.25	132.0	0.628	408.00	43.10	166.50	1 640.00
456853	201.00	203.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.051	1.330	170.50	83.80	14.70	190.0	0.500	349.00	38.80	154.00	1 180.00
456854	203.00	205.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.024	0.800	76.60	122.50	12.25	264.0	0.307	187.00	16.85	124.50	653.00
456855	205.00	207.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.016	0.640	42.50	112.00	11.60	170.0	0.174	180.00	12.70	118.50	537.00
456857	207.00	209.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.008	0.550	23.60	90.90	9.19	341.0	0.103	141.00	11.35	92.40	323.00
456858	209.00	211.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.003	0.330	18.20	77.80	7.15	195.0	0.096	145.00	11.70	65.70	551.00
456859	211.00	213.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.002	0.370	17.80	110.50	8.18	227.0	0.076	154.00	11.45	84.80	368.00
456860	213.00	215.00	2.00	2	VO18168892 - Finalized	26/07/2018	0.005	0.680	15.00	211.00	12.15	307.0	0.122	209.00	16.85	160.00	664.00
456861	215.00	217.00	2.00	2	VO18174626 - Finalized	09/08/2018	0.020	0.980	18.40	270.00	13.55	2,060.0	0.274	436.00	41.10	141.00	1 310.00
456862	217.00	219.00	2.00	2	VO18174626 - Finalized	09/08/2018	0.027	1.120	12.40	295.00	11.00	1,730.0	0.466	682.00	59.00	114.50	2 030.00



Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456863	219.00	220.50	1.50	2	VO18174626 - Finalized	09/08/2018	0.034	1.250	18.80	392.00	7.77	534.0	0.596	862.00	84.50	124.50	2 700.00
456864	220.50	221.30	0.80	2	VO18174626 - Finalized	09/08/2018	0.014	0.970	17.00	467.00	17.45	754.0	0.276	410.00	23.50	242.00	1 320.00
456865	221.30	222.50	1.20	2	VO18174626 - Finalized	09/08/2018	0.004	0.600	22.10	276.00	11.10	2,240.0	0.040	137.00	7.35	110.00	80.00
456866	222.50	224.00	1.50	2	VO18174626 - Finalized	09/08/2018	0.007	0.510	14.90	145.00	6.70	586.0	0.233	398.00	30.70	71.10	1 020.00
456867	224.00	226.00	2.00	2	VO18174626 - Finalized	09/08/2018	0.002	0.590	8.90	168.00	9.51	401.0	0.059	193.00	15.65	106.50	283.00



## Detailed Log Report

### Hole Number OSK-KAN-18-011

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-60.00 <b>Collar Az:</b> 270.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 374 599.00	<b>Length:</b>	148.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	July 8, 2018	<b>East:</b>	484 069.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	July 12, 2018	<b>Elev:</b>	173.50	<b>Casing Length:</b>	3.00 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	Y <b>Making Water:</b> N
<b>Logger 1:</b>	Cynthia Lee			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	Ferricrete Antiform hinge			<b>Claims Title:</b>	88975 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F11 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	0.40	<b>OVB, Overburden</b>					
<b>Comments:</b>							
0.40	7.30	<b>S9, Iron formation</b>	457750	0.40	1.00	0.60	S9D; Chl-2 Ank-2; 0.5% Po AL VN
			457751	1.00	2.00	1.00	S9D; Chl-2 Ank-2; 0.5% Po AL VN
<b>Comments:</b>							
			457752	2.00	3.00	1.00	S9D; Chl-2 Ank-2; 0.5% Po AL VN
			457753	3.00	4.00	1.00	S9D; Chl-2 Ank-2; 0.5% Po AL VN
			457754	4.00	5.00	1.00	S9D; Chl-2 Ank-2; 0.5% Po AL VN
			457755	5.00	6.00	1.00	S9D; Chl-2 Ank-2; 0.5% Po AL VN
			457756	6.00	7.30	1.30	S9D; Chl-2 Ank-2; 0.5% Po AL VN
7.30	14.20	<b>I3A, Gabbro</b>	457757	7.30	8.00	0.70	I3A GH; Carb-1; 0.01% Cp AL VN 0.5% Po AL VN
			457758	8.00	10.00	2.00	I3A GH; Carb-1; 0.01% Cp AL VN 0.5% Po AL VN
<b>Comments:</b>							
			457760	10.00	12.00	2.00	I3A GH; Carb-1; 0.01% Cp AL VN 0.5% Po AL VN
			457761	12.00	13.50	1.50	I3A GH; Carb-1; 0.01% Cp AL VN 0.5% Po AL VN
			457762	13.50	14.20	0.70	I3A GH; Carb-1; 0.01% Cp AL VN 0.5% Po AL VN

From	To	Lithology	Sample	From	To	Length	Comments	
14.20	38.40	<b>S9, Iron formation</b>	457763	14.20	15.00	0.80	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457764	15.00	16.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
<b>Comments:</b>			457765	16.00	17.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457767	17.00	18.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457768	18.00	19.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457769	19.00	20.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457770	20.00	21.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457771	21.00	22.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457772	22.00	23.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457773	23.00	24.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457774	24.00	25.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457775	25.00	26.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457776	26.00	27.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457777	27.00	28.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457778	28.00	29.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457780	29.00	30.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457781	30.00	31.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457782	31.00	32.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457783	32.00	33.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
			457784	33.00	34.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN	
		457785	34.00	35.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN		
		457787	35.00	36.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN		
		457788	36.00	37.00	1.00	S9D; Chl-2 Ank-2; 1% Po AL VN		
		457789	37.00	38.40	1.40	S9D; Chl-2 Ank-2; 1% Po AL VN		
38.40	40.15	<b>I3A, Gabbro</b>	457790	38.40	40.15	1.75	I3A; Sil-3 Ank-1; 0.01% Po DI PER; FLT 2	
<b>Comments:</b>								

From	To	Lithology	Sample	From	To	Length	Comments
40.15	88.20	S9, Iron formation	457791	40.15	41.00	0.85	S9C Ank; Chl-2 Ank-2; 1% Po AL VN
			457792	41.00	42.00	1.00	S9C Ank; Chl-2 Ank-2; 1% Po AL VN
<b>Comments:</b>			457793	42.00	43.00	1.00	S9C Ank; Chl-2 Ank-2; 1% Po AL VN
			457794	43.00	44.00	1.00	S9C Ank; Chl-2 Ank-2; 1% Po AL VN
			457795	44.00	45.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457796	45.00	46.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457797	46.00	47.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457798	47.00	48.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457800	48.00	49.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457801	49.00	50.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457802	50.00	51.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457803	51.00	52.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457804	52.00	53.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457805	53.00	54.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457807	54.00	55.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457808	55.00	56.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457809	56.00	57.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457810	57.00	58.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457811	58.00	59.00	1.00	S9C Ank; Chl-3 Carb-2 Ank-3; 1% Po AL VN
			457812	59.00	60.00	1.00	S9C Ank
			457813	60.00	61.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 3% Po AL VN; 15% I1N CL AK 10 cm
			457814	61.00	62.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 3% Po AL VN; 15% I1N CL AK 10 cm
			457815	62.00	63.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 3% Po AL VN; 15% I1N CL AK 10 cm
			457816	63.00	64.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 3% Po AL VN; 15% I1N CL AK 10 cm
			457817	64.00	65.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 3% Po AL VN; 15% I1N CL AK 10 cm
			457818	65.00	66.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 3% Po AL VN; 15% I1N CL AK 10 cm
			457820	66.00	67.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 3% Po AL VN; 15% I1N CL AK 10 cm
			457821	67.00	68.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 3% Po AL VN; 15% I1N CL AK 10 cm
			457822	68.00	69.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 3% Po AL VN; 15% I1N CL AK 10 cm
			457823	69.00	70.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 3% Po AL VN; 15% I1N CL AK 10 cm
			457824	70.00	71.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN; 15% I1N CL AK 10 cm
			457825	71.00	72.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN; 15% I1N CL AK 10 cm
			457827	72.00	73.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN; 15% I1N CL AK 10 cm
			457828	73.00	74.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN; 15% I1N CL AK 10 cm
			457829	74.00	75.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN; 15% I1N CL AK 10 cm
			457830	75.00	76.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN; 15% I1N CL AK 10 cm

From	To	Lithology	Sample	From	To	Length	Comments
			457831	76.00	77.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN; 15% I1N CL AK 10 cm
			457832	77.00	78.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN; 15% I1N CL AK 10 cm
			457833	78.00	79.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN; 15% I1N CL AK 10 cm
			457834	79.00	80.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN; 15% I1N CL AK 10 cm
			457835	80.00	81.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN; 15% I1N CL AK 10 cm
			457836	81.00	82.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN
			457837	82.00	83.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN
			457838	83.00	84.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN
			457840	84.00	85.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN
			457841	85.00	86.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN
			457842	86.00	87.00	1.00	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN
			457843	87.00	88.20	1.20	S9C Ank; BL-3 Ank-4 Chl-2 Carb-2 Ser-1; 5% Po AL VN 1% Py SUB VN 0.01% Cp AL VN

From	To	Lithology	Sample	From	To	Length	Comments	
88.20	148.00	S6, Mudrock	456868	88.20	90.00	1.80	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456870	90.00	92.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
<b>Comments:</b>			456871	92.00	94.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456872	94.00	96.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456873	96.00	98.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456874	98.00	100.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456875	100.00	102.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456877	102.00	104.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456878	104.00	106.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456879	106.00	108.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456880	108.00	110.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456881	110.00	112.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456882	112.00	114.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456883	114.00	116.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456884	116.00	118.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456885	118.00	120.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456886	120.00	122.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456887	122.00	124.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456888	124.00	126.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456890	126.00	128.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456891	128.00	130.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456892	130.00	132.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456893	132.00	134.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
			456894	134.00	136.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD	
		456895	136.00	138.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD		
		456897	138.00	140.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD		
		456898	140.00	142.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD		
		456899	142.00	144.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD		
		456900	144.00	146.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD		
		456901	146.00	148.00	2.00	S6 GP; Carb-1 Sil-1; 8% Py SUB BD 2% Po AL BD		

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
30.00	274.70	57.40	FS	Test OK-REJECT	
31.00	265.00	-57.60	FM	Test NON-OK	
34.00	265.00	-57.60	FM	Test OK-Accept	
37.00	265.00	-57.60	FM	Test OK-Accept	
40.00	261.50	-57.60	FM	Test Non-OK	
43.00	262.10	-57.50	FM	Test Non-OK	
46.00	266.90	-57.60	FM	Test OK-Accept	
49.00	271.90	-57.70	FM	Test Non-OK	
52.00	273.40	-57.60	FM	Test Non-OK	
55.00	274.10	-57.60	FM	Test OK-Accept	
58.00	273.70	-57.50	FM	Test OK-Accept	
61.00	274.60	-57.50	FM	Test OK-Accept	
64.00	273.60	-57.40	FM	Test OK-Accept	
67.00	274.20	-57.40	FM	Test Non-OK	
70.00	274.00	-57.10	FM	Test Non-OK	
73.00	273.90	-57.20	FM	Test OK-Accept	
76.00	275.50	-57.10	FM	Test OK-Accept	
79.00	275.70	-57.10	FM	Test OK-Accept	
82.00	275.90	-57.20	FM	Test OK-Accept	
82.00	272.80	57.20	FS	Test OK-REJECT	
85.00	276.50	-56.90	FM	Test OK-Accept	
88.00	273.80	-57.10	FM	Test OK-Accept	
91.00	274.30	-57.00	FM	Test OK-Accept	
94.00	274.70	-57.10	FM	Test Non-OK	
97.00	273.50	-57.10	FM	Test OK-Accept	
100.00	270.30	-57.00	FM	Test Non-OK	
103.00	273.60	-57.00	FM	Test Non-OK	
106.00	270.70	-57.00	FM	Test Non-OK	
109.00	269.50	-57.00	FM	Test Non-OK	
112.00	266.30	-57.00	FM	Test OK-Accept	
115.00	270.10	-57.10	FM	Test Non-OK	
118.00	257.40	-57.10	FM	Test Non-OK	
121.00	275.40	-57.10	FM	Test Non-OK	
124.00	273.10	-57.00	FM	Test Non-OK	
127.00	267.10	-57.00	FM	Test Non-OK	
130.00	267.10	-57.00	FM	Test Non-OK	
133.00	267.30	-56.90	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
136.00	267.20	-56.90	FM	Test OK-Accept	
139.00	275.80	-56.90	FM	Test Non-OK	
139.00	281.10	56.80	FS	Test OK-REJECT	
142.00	279.70	-56.90	FM	Test Non-OK	
145.00	276.60	-56.90	FM	Test Non-OK	
148.00	279.50	-56.90	FM	Test Non-OK	

**Lithology Data**

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
0.40	7.30	S9	BD	RU			S9D			GM		3	FG				
7.30	14.20	I3A	MA				I3A GH			VM	GM	3	MG				
14.20	38.40	S9	BD	RU			S9D	3.00	Silica	GM		3	FG		70.00	SHP	
38.40	40.15	I3A	CS	HJ			I3A			GD	VD	3	Aph		74.00	SHP	
40.15	88.20	S9	HK	RU	IU		S9C Ank	8.00	Silica	GL	BG	2	FG		61.00	DIF	Altered iron formation from 44m downwards. bleached metric intervals from 59.1 meters downwards. Injected with 10-15% quartz-ankerite-chlorite-pyrrhotite veins.
88.20	148.00	S6	BD	RU			S6 GP	5.00	Carbonate	BK			Aph			NA	113.3 à 115.4 mètres = non récupéré; 147.7 à 148 mètres = non récupéré.

**Mineralization Data**

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
0.40	7.30		Po	0.50	AL	VN											
7.30	14.20		Cp	0.01	AL	VN	trace chalcopyrite in veins at upper and lower contact	Po	0.50	AL	VN						
14.20	38.40		Po	1.00	AL	VN											
38.40	40.15		Po	0.01	DI	PER											
40.15	59.10		Po	1.00	AL	VN											
59.10	70.00		Po	3.00	AL	VN											
70.00	88.20		Po	5.00	AL	VN		Py	1.00	SUB	VN		Cp	0.01	AL	VN	
88.20	148.00		Py	8.00	SUB	BD		Po	2.00	AL	BD						



Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
0.40	7.30	Chl	2	VN	Ank	2	VN				
7.30	14.20	Carb	1	DI							
14.20	38.40	Chl	2	VN	Ank	2	VN				
38.40	40.15	Sil	3	PEN	Ank	1	DI				
40.15	44.00	Chl	2	VN	Ank	2	VN				
44.00	59.10	Chl	3	VN	Carb	2	PEN	Ank	3	VN	
59.10	88.20	BL	3	RU	Ank	4	VN	Chl	2	VN	
88.20	149.00	Carb	1	VN	Sil	1	VN				

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
59.10	81.50	15.00	10.00	I1N	UNK	Vein >5cm	CL	5.00	AK	20.00	SR	2.00				Po	5.00	Py	2.00	

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
38.40	40.15	FLT	2	74.00	sheared gabbro
113.40	115.50	BC	5		core not retrieved

## Oriented Structure Data

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
4.40	S0		70.00										
5.60	S0		80.00										
9.20	S2		55.00										
10.20	S2		45.00										
13.60	S0		65.00										
14.60	VN		45.00										
15.50	VN		60.00										
21.30	S0		70.00										
22.20	S0		72.00										
28.90	S0		66.00										
30.10	S0		67.00										
33.80	S0		60.00										
38.40	CNT		70.00										
40.15	CNT		74.00										
46.70	VN		38.00	76.00	272.40	-57.67	-65.28	59.73	0.00	149.73			
49.60	S0		56.00	25.00	273.75	-57.60	-64.63	18.91	0.00	108.91			
51.00	VN		41.00	330.00	273.98	-57.60	-78.25	341.31	0.00	71.31			
52.20	S0		64.00	340.00	273.90	-57.55	-57.49	353.66	0.00	83.66			
55.70	VN		40.00										
57.10	S0		75.00										
63.60	VN		50.00	188.00	273.98	-57.12	-8.54	221.00	0.00	311.00			
64.60	S0		67.00										
67.20	S0		80.00										
71.40	VN		34.00										
76.60	S0		46.00	306.00	275.60	-56.97	-67.64	328.18	0.00	58.18			
79.20	S0		30.00	302.00	273.97	-57.07	-80.20	315.78	0.00	45.78			
84.90	S0		68.00	150.00	274.10	-57.10	-17.31	43.11	0.00	133.11			
85.50	VN		55.00	159.00	273.90	-57.10	-11.86	95.20	0.00	185.20			
85.70	S0		46.00	158.00	273.70	-57.10	-17.48	123.67	0.00	213.67			
87.30	S0		60.00	26.00	271.90	-57.05	-61.16	16.39	0.00	106.39			
88.20	CNT		64.00	6.00	270.83	-57.02	-58.90	3.90	0.00	93.90			
94.00	S0		46.00	284.00	270.50	-57.00	-59.22	308.82	0.00	38.82			
95.00	S0		60.00	244.00	270.10	-57.00	-32.25	302.74	0.00	32.74			
102.70	S0		70.00										

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
105.50	AxialPlane		70.00										
116.30	S0		65.00										
119.00	S0		65.00										
124.50	AxialPlane		42.00										
124.80	S0		50.00										
129.30	S0		68.00										
136.00	S0		53.00										
140.40	S0		53.00										
142.00	AxialPlane		60.00	3.00	279.50	-56.90	-63.08	11.18	0.00	101.18			
146.10	S0		40.00										

**Sample Data - ASSAY**

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457750	0.40	1.00	0.60	2	VO18173841 - Finalized	09/08/2018	0.002	0.010	1.60	4.30	16.05	10,550.0	0.005	24.00	0.19	5.50	9.00
457751	1.00	2.00	1.00	2	VO18173951 - Finalized	08/08/2018	0.004	0.010	6.70	9.80	20.10	12,850.0	0.003	59.00	1.27	12.90	12.00
457752	2.00	3.00	1.00	2	VO18173951 - Finalized	08/08/2018	0.001	0.010	1.80	5.60	15.15	10,900.0	0.003	31.00	0.30	7.00	10.00
457753	3.00	4.00	1.00	2	VO18173951 - Finalized	08/08/2018	0.001	0.010	2.40	6.30	18.30	12,700.0	0.003	33.00	0.27	7.70	8.00
457754	4.00	5.00	1.00	2	VO18173951 - Finalized	08/08/2018	0.001	0.010	5.70	6.50	18.40	14,050.0	0.006	35.00	0.44	8.60	9.00
457755	5.00	6.00	1.00	2	VO18173951 - Finalized	08/08/2018	0.001	0.010	4.40	8.70	17.10	13,950.0	0.005	41.00	0.64	9.00	9.00
457756	6.00	7.30	1.30	2	VO18173951 - Finalized	08/08/2018	0.001	0.005	0.80	13.20	21.10	14,400.0	0.003	85.00	0.29	14.00	18.00
457757	7.30	8.00	0.70	2	VO18173951 - Finalized	08/08/2018	0.001	0.010	0.50	44.20	13.55	4,500.0	0.008	74.00	0.55	10.80	18.00
457758	8.00	10.00	2.00	2	VO18173951 - Finalized	08/08/2018	0.001	0.030	69.20	68.70	13.70	2,550.0	0.003	414.00	0.67	106.50	89.00
457760	10.00	12.00	2.00	2	VO18173951 - Finalized	08/08/2018	0.001	0.040	24.60	103.00	9.13	1,450.0	0.007	326.00	0.24	84.40	89.00
457761	12.00	13.50	1.50	2	VO18173951 - Finalized	08/08/2018	0.001	0.060	9.70	109.50	8.66	1,320.0	0.013	333.00	0.18	82.80	84.00
457762	13.50	14.20	0.70	2	VO18173951 - Finalized	08/08/2018	0.001	0.010	20.00	36.10	11.75	1,420.0	0.006	368.00	0.23	95.10	87.00
457763	14.20	15.00	0.80	2	VO18173951 - Finalized	08/08/2018	0.001	0.010	1.30	95.10	13.20	6,980.0	0.006	81.00	0.27	14.70	17.00
457764	15.00	16.00	1.00	2	VO18173951 - Finalized	08/08/2018	0.001	0.005	0.40	32.90	15.35	9,350.0	0.008	53.00	0.14	9.80	14.00
457765	16.00	17.00	1.00	2	VO18173951 - Finalized	08/08/2018	0.001	0.010	1.70	15.60	16.55	13,250.0	0.005	65.00	0.42	9.70	12.00
457767	17.00	18.00	1.00	2	VO18173951 - Finalized	08/08/2018	0.001	0.005	1.80	8.20	17.05	12,150.0	0.003	63.00	0.27	9.00	11.00
457768	18.00	19.00	1.00	2	VO18173951 - Finalized	08/08/2018	0.001	0.010	7.30	9.80	23.80	16,950.0	0.003	84.00	0.32	13.20	20.00
457769	19.00	20.00	1.00	2	VO18173951 - Finalized	08/08/2018	0.001	0.010	1.00	9.00	20.10	14,350.0	0.003	61.00	0.26	10.80	11.00
457770	20.00	21.00	1.00	2	VO18173951 - Finalized	08/08/2018	0.001	0.020	1.80	16.30	20.20	14,150.0	0.003	53.00	0.36	10.00	11.00
457771	21.00	22.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.012	0.040	12.20	6.60	13.90	9,980.0	0.003	42.00	0.30	8.80	8.00
457772	22.00	23.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.002	0.010	3.10	9.90	18.95	13,050.0	0.003	59.00	0.27	10.60	10.00
457773	23.00	24.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.001	0.010	6.90	8.60	19.50	13,300.0	0.003	70.00	0.31	11.00	12.00
457774	24.00	25.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.001	0.010	3.50	12.70	20.00	14,300.0	0.003	78.00	0.38	12.50	13.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457775	25.00	26.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.001	0.005	3.30	8.30	18.85	11,950.0	0.007	98.00	0.33	13.80	16.00
457776	26.00	27.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.001	0.010	2.70	21.30	23.40	15,950.0	0.006	129.00	0.77	20.40	19.00
457777	27.00	28.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.001	0.010	2.60	15.30	16.60	12,600.0	0.003	89.00	0.57	12.70	14.00
457778	28.00	29.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.001	0.010	0.40	16.30	23.90	18,700.0	0.003	133.00	0.56	20.90	19.00
457780	29.00	30.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.001	0.010	4.50	13.80	18.05	14,850.0	0.003	65.00	0.34	15.80	13.00
457781	30.00	31.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.001	0.040	0.90	9.70	14.55	11,050.0	0.003	75.00	0.46	12.20	11.00
457782	31.00	32.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.001	0.030	1.30	25.00	24.60	16,100.0	0.006	167.00	1.20	26.50	22.00
457783	32.00	33.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.001	0.030	1.60	15.40	15.00	11,200.0	0.008	87.00	0.68	14.00	13.00
457784	33.00	34.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.001	0.090	6.60	12.00	17.60	14,350.0	0.003	78.00	0.72	16.40	17.00
457785	34.00	35.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.001	0.010	3.00	8.80	16.95	12,900.0	0.003	68.00	0.41	10.40	13.00
457787	35.00	36.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.001	0.020	13.10	4.40	8.84	6,570.0	0.003	54.00	0.26	11.50	10.00
457788	36.00	37.00	1.00	2	VO18173959 - Finalized	08/08/2018	0.001	0.020	1.40	7.40	12.70	8,640.0	0.003	47.00	0.29	5.40	9.00
457789	37.00	38.40	1.40	2	VO18173959 - Finalized	08/08/2018	0.001	0.005	19.90	19.30	8.28	5,470.0	0.005	105.00	0.26	20.10	17.00
457790	38.40	40.15	1.75	2	VO18173959 - Finalized	08/08/2018	0.001	0.070	25.60	168.00	9.76	1,480.0	0.020	433.00	0.21	108.50	129.00
457791	40.15	41.00	0.85	2	VO18173965 - Finalized	06/08/2018	0.001	0.070	63.60	167.00	6.68	1,740.0	0.021	307.00	0.32	91.20	85.00
457792	41.00	42.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.110	61.30	175.50	4.78	1,070.0	0.022	386.00	0.40	87.30	82.00
457793	42.00	43.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.130	69.90	205.00	4.56	707.0	0.024	491.00	0.50	113.50	80.00
457794	43.00	44.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.030	18.20	41.50	11.35	8,520.0	0.005	173.00	0.52	30.10	45.00
457795	44.00	45.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.010	25.70	27.20	9.04	7,570.0	0.005	135.00	0.45	19.50	29.00
457796	45.00	46.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.050	173.50	70.10	6.79	5,390.0	0.003	412.00	0.68	78.70	24.00
457797	46.00	47.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.020	3.30	85.60	14.15	6,040.0	0.003	112.00	0.52	13.90	45.00
457798	47.00	48.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.030	69.70	46.20	9.38	5,790.0	0.003	177.00	0.49	32.10	22.00
457800	48.00	49.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.070	3.00	61.60	15.30	4,790.0	0.003	43.00	1.57	34.50	15.00
457801	49.00	50.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.050	31.00	27.70	13.50	5,320.0	0.005	26.00	0.67	38.20	11.00
457802	50.00	51.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.040	1.90	23.80	13.20	5,630.0	0.005	36.00	0.32	11.60	13.00
457803	51.00	52.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.010	0.80	3.40	8.09	3,880.0	0.012	22.00	0.22	1.80	12.00
457804	52.00	53.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.040	0.80	10.70	14.65	6,850.0	0.003	33.00	0.30	5.30	12.00
457805	53.00	54.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.003	0.100	0.70	6.50	11.90	6,100.0	0.006	29.00	0.30	6.40	21.00
457807	54.00	55.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.060	2.50	7.70	12.05	6,540.0	0.003	22.00	0.44	6.10	15.00
457808	55.00	56.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.050	1.20	11.80	14.45	8,140.0	0.009	26.00	0.79	8.20	15.00
457809	56.00	57.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.090	2.90	24.10	14.30	8,970.0	0.009	20.00	0.85	6.70	12.00
457810	57.00	58.00	1.00	2	VO18173965 - Finalized	06/08/2018	0.001	0.190	3.80	11.10	17.10	8,900.0	0.008	42.00	1.36	15.70	24.00
457811	58.00	59.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.001	0.050	1.90	5.20	10.50	3,520.0	0.012	21.00	0.48	7.10	9.00
457812	59.00	60.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.001	0.030	5.80	4.90	11.45	2,850.0	0.005	19.00	0.28	3.30	7.00
457813	60.00	61.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.013	0.020	7.20	3.40	10.85	2,980.0	0.006	18.00	0.64	5.60	8.00
457814	61.00	62.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.001	0.040	2.50	16.30	15.30	6,520.0	0.008	9.00	0.32	2.00	6.00
457815	62.00	63.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.002	0.080	3.50	14.70	12.65	4,140.0	0.011	17.00	0.60	4.20	7.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457816	63.00	64.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.001	0.030	1.40	4.80	14.60	4,330.0	0.010	13.00	0.32	1.60	8.00
457817	64.00	65.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.001	0.020	1.60	3.90	13.35	4,940.0	0.008	13.00	0.36	1.20	8.00
457818	65.00	66.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.001	0.050	1.50	13.10	13.60	5,600.0	0.005	14.00	0.80	2.20	14.00
457820	66.00	67.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.003	0.070	1.20	5.40	13.55	6,950.0	0.014	25.00	0.58	3.20	12.00
457821	67.00	68.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.001	0.040	0.90	4.90	12.70	4,320.0	0.014	28.00	0.54	2.90	15.00
457822	68.00	69.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.001	0.100	0.40	8.90	14.95	5,180.0	0.008	12.00	0.53	2.40	16.00
457823	69.00	70.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.001	0.020	1.20	2.70	12.40	4,820.0	0.013	13.00	0.50	2.00	14.00
457824	70.00	71.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.001	0.030	5.40	1.10	11.05	5,160.0	0.009	11.00	0.66	4.10	17.00
457825	71.00	72.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.157	0.070	1.00	6.70	14.95	7,730.0	0.011	24.00	0.91	1.90	43.00
457827	72.00	73.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.044	0.120	1.30	11.40	17.75	9,620.0	0.003	13.00	0.60	2.10	34.00
457828	73.00	74.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.018	0.070	1.10	8.30	19.00	9,720.0	0.014	15.00	0.61	1.70	36.00
457829	74.00	75.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.007	0.040	0.70	7.20	16.70	9,490.0	0.009	21.00	0.67	1.70	52.00
457830	75.00	76.00	1.00	2	VO18173969 - Finalized	05/08/2018	0.005	0.110	1.30	18.20	18.70	8,830.0	0.009	25.00	1.41	4.80	69.00
457831	76.00	77.00	1.00	2	VO18173986 - Finalized	05/08/2018	0.062	0.240	0.90	32.90	20.90	8,280.0	0.008	35.00	1.97	5.10	78.00
457832	77.00	78.00	1.00	2	VO18173986 - Finalized	05/08/2018	0.899	0.170	0.90	31.50	19.60	8,930.0	0.007	27.00	1.71	3.70	67.00
457833	78.00	79.00	1.00	2	VO18173986 - Finalized	05/08/2018	0.096	0.100	3.40	19.20	18.30	7,590.0	0.010	19.00	1.74	4.50	43.00
457834	79.00	80.00	1.00	2	VO18173986 - Finalized	05/08/2018	0.405	0.160	0.90	31.70	17.90	5,740.0	0.003	16.00	1.08	4.10	32.00
457835	80.00	81.00	1.00	2	VO18173986 - Finalized	05/08/2018	0.261	0.070	1.20	13.70	18.20	6,750.0	0.007	12.00	0.83	3.50	29.00
457836	81.00	82.00	1.00	2	VO18173986 - Finalized	05/08/2018	0.247	1.500	1.30	6.50	19.30	8,830.0	0.006	15.00	1.25	4.90	33.00
457837	82.00	83.00	1.00	2	VO18173986 - Finalized	05/08/2018	0.010	0.080	0.40	5.50	19.60	9,490.0	0.003	12.00	0.97	2.60	22.00
457838	83.00	84.00	1.00	2	VO18173986 - Finalized	05/08/2018	0.001	0.030	4.60	5.30	23.70	12,650.0	0.005	13.00	0.71	2.50	25.00
457840	84.00	85.00	1.00	2	VO18173986 - Finalized	05/08/2018	0.001	0.040	4.10	2.40	18.75	9,760.0	0.005	14.00	0.94	3.20	24.00
457841	85.00	86.00	1.00	2	VO18173986 - Finalized	05/08/2018	0.004	0.100	14.60	7.30	14.35	5,590.0	0.006	16.00	1.16	5.60	19.00
457842	86.00	87.00	1.00	2	VO18173986 - Finalized	05/08/2018	0.001	0.100	1.70	27.10	14.65	4,410.0	0.007	11.00	1.18	8.80	28.00
457843	87.00	88.20	1.20	2	VO18173986 - Finalized	05/08/2018	0.001	0.100	0.60	8.80	12.60	3,830.0	0.003	11.00	0.41	2.90	49.00
456868	88.20	90.00	1.80	2	VO18174626 - Finalized	09/08/2018	0.027	1.970	12.80	559.00	22.50	878.0	0.181	302.00	32.60	214.00	2 110.00
456870	90.00	92.00	2.00	2	VO18174626 - Finalized	09/08/2018	0.056	2.450	29.90	332.00	14.85	1,300.0	0.341	1 200.00	144.00	190.50	3 160.00
456871	92.00	94.00	2.00	2	VO18174626 - Finalized	09/08/2018	0.022	1.400	62.70	221.00	13.25	643.0	0.218	508.00	52.30	157.50	1 540.00
456872	94.00	96.00	2.00	2	VO18174626 - Finalized	09/08/2018	0.021	1.180	85.40	326.00	19.05	722.0	0.187	344.00	30.10	181.50	1 290.00
456873	96.00	98.00	2.00	2	VO18174626 - Finalized	09/08/2018	0.028	1.600	56.90	325.00	14.30	1,120.0	0.118	690.00	77.10	267.00	1 470.00
456874	98.00	100.00	2.00	2	VO18174626 - Finalized	09/08/2018	0.035	1.620	99.80	374.00	18.30	726.0	0.198	734.00	70.90	225.00	1 590.00
456875	100.00	102.00	2.00	2	VO18174626 - Finalized	09/08/2018	0.030	1.370	237.00	96.20	18.00	305.0	0.370	565.00	58.40	184.00	1 290.00
456877	102.00	104.00	2.00	2	VO18174626 - Finalized	09/08/2018	0.032	1.300	231.00	116.50	17.15	334.0	0.399	588.00	64.40	219.00	1 420.00
456878	104.00	106.00	2.00	2	VO18174626 - Finalized	09/08/2018	0.036	1.050	150.00	99.50	14.55	316.0	0.271	343.00	35.90	155.00	1 220.00
456879	106.00	108.00	2.00	2	VO18174626 - Finalized	09/08/2018	0.023	0.820	85.40	178.50	11.80	135.0	0.180	211.00	16.55	150.00	984.00
456880	108.00	110.00	2.00	2	VO18174626 - Finalized	09/08/2018	0.025	0.790	57.40	218.00	11.05	144.0	0.117	201.00	13.55	124.50	440.00
456881	110.00	112.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.048	0.920	127.50	144.00	12.60	982.0	0.324	560.00	52.90	213.00	911.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456882	112.00	114.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.097	1.650	182.50	155.50	16.30	187.0	0.531	1 540.00	142.50	398.00	2 210.00
456883	114.00	116.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.053	1.740	49.00	256.00	15.45	491.0	0.248	579.00	61.60	280.00	2 530.00
456884	116.00	118.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.040	1.250	49.20	269.00	17.30	724.0	0.227	554.00	68.80	293.00	2 500.00
456885	118.00	120.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.062	1.940	274.00	97.80	19.10	322.0	0.673	887.00	92.60	260.00	1 130.00
456886	120.00	122.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.028	1.990	205.00	152.50	15.30	490.0	0.561	1 120.00	124.50	315.00	2 500.00
456887	122.00	124.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.027	1.530	43.60	595.00	15.90	2,410.0	0.292	1 280.00	147.00	334.00	3 130.00
456888	124.00	126.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.035	2.500	48.30	576.00	17.00	3,190.0	0.180	1 200.00	150.00	315.00	1 830.00
456890	126.00	128.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.030	2.290	52.40	398.00	15.10	2,790.0	0.246	1 260.00	140.50	303.00	2 040.00
456891	128.00	130.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.030	1.850	130.00	205.00	14.70	975.0	0.451	888.00	86.60	235.00	1 980.00
456892	130.00	132.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.054	2.180	78.40	334.00	13.55	1,100.0	0.516	1 280.00	140.50	275.00	3 530.00
456893	132.00	134.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.059	2.440	78.30	355.00	13.85	1,120.0	0.463	1 360.00	150.50	279.00	3 340.00
456894	134.00	136.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.035	2.550	25.90	460.00	14.85	1,840.0	0.271	977.00	111.00	283.00	2 820.00
456895	136.00	138.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.027	2.190	38.50	348.00	15.10	1,210.0	0.290	1 050.00	122.50	349.00	2 360.00
456897	138.00	140.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.006	0.880	21.90	217.00	10.30	598.0	0.082	333.00	25.20	211.00	622.00
456898	140.00	142.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.016	1.560	13.00	229.00	10.85	667.0	0.225	741.00	68.20	182.00	2 110.00
456899	142.00	144.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.021	1.470	20.90	226.00	12.25	1,750.0	0.157	563.00	56.10	175.00	1 550.00
456900	144.00	146.00	2.00	2	VO18174629 - Finalized	12/08/2018	0.044	1.810	184.50	84.90	15.85	463.0	0.627	970.00	107.00	240.00	1 640.00
456901	146.00	148.00	2.00	2	VO18174632 - Finalized	12/08/2018	0.020	1.800	58.20	169.50	13.80	257.0	0.129	371.00	44.20	160.00	503.00



## Detailed Log Report Hole Number OSK-KAN-18-012

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-70.00 <b>Collar Az:</b> 270.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 373 938.00	<b>Length:</b>	292.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	July 13, 2018	<b>East:</b>	484 800.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	July 16, 2018	<b>Elev:</b>	101.80	<b>Casing Length:</b>	33.00 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	Y <b>Making Water:</b> N
<b>Logger 1:</b>	Cynthia Lee			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	Buried Ferricrete Synform			<b>Claims Title:</b>	88975 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F11 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	33.00	<b>OVB, Overburden</b>					
<b>Comments:</b>							
33.00	39.50	<b>I3A, Gabbro</b>	456902	34.00	36.00	2.00	I3A GH; Carb-1NO MIN ; BC 5
			456903	36.00	38.00	2.00	I3A GH; Carb-1NO MIN ; BC 5
<b>Comments:</b>							
			456904	38.00	39.50	1.50	I3A GH; Carb-1NO MIN ; BC 5
39.50	65.50	<b>S6g, Grey Shale</b>	456905	39.50	41.00	1.50	S6g; Sil-1 Chl-1NO MIN ; BC 5
			456906	41.00	43.00	2.00	S6g; Sil-1 Chl-1NO MIN ; BC 5
<b>Comments:</b>							
			456907	43.00	45.00	2.00	S6g; Sil-1 Chl-1NO MIN
			456908	45.00	47.00	2.00	S6g; Sil-1 Chl-1
			456910	47.00	49.00	2.00	S6g; Sil-1 Chl-1; 0.5% Po AL VN
			456911	49.00	51.00	2.00	S6g; Sil-1 Chl-1; 0.5% Po AL VN
			456912	51.00	53.00	2.00	S6g; 0.5% Po AL VN
			456913	53.00	55.00	2.00	S6g; Sil-1 Ank-2; 0.5% Po AL VN
			456914	55.00	57.00	2.00	S6g; Sil-1 Ank-2; 0.1% Po DI SCH
			456915	57.00	59.00	2.00	S6g; Sil-1 Ank-2; 0.1% Po DI SCH
			456917	59.00	61.00	2.00	S6g; 0.1% Po DI SCH
			456918	61.00	63.00	2.00	S6g; Sil-1 Ank-1 Carb-2; 0.1% Po DI SCH
			456919	63.00	64.50	1.50	S6g; Sil-1 Ank-1 Carb-2; 0.1% Po DI SCH
			456920	64.50	65.50	1.00	S6g; Sil-1 Ank-1 Carb-2; 0.1% Po DI SCH

From	To	Lithology	Sample	From	To	Length	Comments
65.50	130.80	I3A, Gabbro	456921	65.50	67.00	1.50	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456922	67.00	69.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456923	69.00	71.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456924	71.00	73.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456925	73.00	75.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456926	75.00	77.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456927	77.00	79.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456928	79.00	81.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456930	81.00	83.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456931	83.00	85.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456932	85.00	87.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456933	87.00	89.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456934	89.00	91.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456935	91.00	93.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456937	93.00	95.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456938	95.00	97.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456939	97.00	99.00	2.00	I3A GH; Carb-1; 0.5% Po DI PER 0.5% Mt DI PER
			456940	99.00	101.00	2.00	I3A GH; 0.5% Po DI PER 0.5% Mt DI PER
			456941	101.00	103.00	2.00	I3A GH; Carb-2; 0.5% Po DI PER 0.5% Mt DI PER
			456942	103.00	105.00	2.00	I3A GH; Carb-2; 0.5% Po DI PER 0.5% Mt DI PER
			456943	105.00	107.00	2.00	I3A GH; Carb-2; 0.5% Po DI PER 0.5% Mt DI PER
			456944	107.00	109.00	2.00	I3A GH; Carb-2; 0.5% Po DI PER 0.5% Mt DI PER
			456945	109.00	111.00	2.00	I3A GH; Carb-2; 0.5% Po DI PER 0.5% Mt DI PER
			456946	111.00	113.00	2.00	I3A GH; Carb-2; 0.5% Po DI PER 0.5% Mt DI PER
			456947	113.00	115.00	2.00	I3A GH; Carb-2; 0.5% Po DI PER 0.5% Mt DI PER
			456948	115.00	117.00	2.00	I3A GH; Carb-2; 0.5% Po DI PER 0.5% Mt DI PER
			456950	117.00	119.00	2.00	I3A GH; Carb-2; 0.5% Po DI PER 0.5% Mt DI PER
			456951	119.00	121.00	2.00	I3A GH; NO ALT; 0.5% Po DI PER 0.5% Mt DI PER
			456952	121.00	123.00	2.00	I3A GH; NO ALT; 0.5% Po DI PER 0.5% Mt DI PER
			456953	123.00	125.00	2.00	I3A GH; NO ALT; 0.5% Po DI PER 0.5% Mt DI PER
			456954	125.00	127.00	2.00	I3A GH; NO ALT; 0.5% Po DI PER 0.5% Mt DI PER
			456955	127.00	129.00	2.00	I3A GH; NO ALT; 0.5% Po DI PER 0.5% Mt DI PER
			456957	129.00	130.80	1.80	I3A GH; Ank-1 Sil-2 Chl-2; 0.5% Po DI PER 0.5% Mt DI PER



From	To	Lithology	Sample	From	To	Length	Comments	
130.80	152.90	<b>S6g, Grey Shale</b>	456958	130.80	132.00	1.20	S6g; Ank-1 Sil-2 Chl-2; 0.5% Po DI PER 0.5% Mt DI PER	
			456959	132.00	134.00	2.00	S6g; Ank-1 Sil-2 Chl-2; 1% Po AL VN	
			<b>Comments:</b>	456960	134.00	136.00	2.00	
			456961	136.00	138.00	2.00	S6g; Chl-3 Ank-3 Sil-3; 2% Po AL VN; 15% I1N CL AK 20 cm 60°	
			456962	138.00	140.00	2.00		
			456963	140.00	142.00	2.00	S6g; Sil-1; 0.1% Po DI SCH; BD 5	
			456964	142.00	144.00	2.00	S6g; Sil-1; 0.1% Po DI SCH; BD 5	
			456965	144.00	146.00	2.00	S6g; Sil-1; 0.1% Po DI SCH; BD 5	
			456966	146.00	148.00	2.00	S6g; Sil-1; 0.1% Po DI SCH; BD 5	
			456967	148.00	150.00	2.00	S6g; Sil-1; 0.1% Po DI SCH; BD 5	
			456968	150.00	151.50	1.50	S6g; Sil-1; 0.1% Po DI SCH; BD 5	
456970	151.50	152.90	1.40	S6g; Sil-1; 0.1% Po DI SCH				
152.90	155.70	<b>S10, Chert</b>	456971	152.90	154.30	1.40	S10B; Sil-3 Ank-2 Chl-1; 0.1% Po DI PER	
			456972	154.30	155.70	1.40	S10B; Sil-3 Ank-2 Chl-1; 0.1% Po DI PER	
<b>Comments:</b>								
155.70	172.50	<b>S9, Iron formation</b>	457845	155.70	157.00	1.30	S9C Ank; Chl-2 Ser-2; 0.5% Po SS BD	
			457847	157.00	158.00	1.00	S9C Ank; Chl-2 Ser-2; 0.5% Po SS BD	
			<b>Comments:</b>	457848	158.00	159.00	1.00	S9C Ank; Chl-2 Ser-2; 0.5% Po SS BD
			457849	159.00	160.00	1.00	S9C Ank; Chl-2 Ser-2; 0.5% Po SS BD	
			457850	160.00	161.00	1.00	S9C Ank; Chl-2 Ser-2; 0.5% Po SS BD	
			457851	161.00	162.00	1.00	S9C Ank; Chl-2 Ser-2; 0.5% Po SS BD	
			457852	162.00	163.00	1.00	S9C Ank; Chl-2 Ser-2; 0.5% Po SS BD	
			457853	163.00	164.00	1.00	S9C Ank; Chl-2 Ser-2; 0.5% Po SS BD	
			457854	164.00	165.00	1.00	S9C Ank; Chl-4 Ser-2 Ank-2; 0.5% Po SS BD	
			457855	165.00	166.00	1.00	S9C Ank; Chl-4 Ser-2 Ank-2; 0.5% Po SS BD	
			457856	166.00	167.00	1.00	S9C Ank; Chl-4 Ser-2 Ank-2; 0.5% Po SS BD	
			457857	167.00	168.00	1.00	S9C Ank; Chl-4 Ser-2 Ank-2; 0.5% Po SS BD	
			457858	168.00	169.00	1.00	S9C Ank; Chl-4 Ser-2 Ank-2; 0.5% Po SS BD	
			457860	169.00	170.00	1.00	S9C Ank; Chl-4 Ser-2 Ank-2; 0.5% Po SS BD	
			457861	170.00	171.00	1.00	S9C Ank; Chl-4 Ser-2 Ank-2; 2% Po AL BD	
			457862	171.00	172.50	1.50	S9C Ank; Chl-4 Ser-2 Ank-2; 2% Po SS SCH	
172.50	176.00	<b>S10, Chert</b>	457863	172.50	174.00	1.50	S10D; Sil-4 Ank-2 Chl-2; 2% Po IG FRC 18% Po IG VN	
			457864	174.00	175.00	1.00	S10D; Sil-4 Ank-2 Chl-2; 2% Po IG FRC 18% Po IG VN	
			<b>Comments:</b>	457865	175.00	176.00	1.00	S10D; Sil-4 Ank-2 Chl-2; 2% Po IG FRC 18% Po IG VN

From	To	Lithology	Sample	From	To	Length	Comments
176.00	247.00	S9, Iron formation	457867	176.00	177.00	1.00	S9D; Chl-4 K-3; 5% Po IG BD
			457868	177.00	178.00	1.00	S9D; Chl-4 K-3; 5% Po IG BD
			457869	178.00	179.00	1.00	S9D; Chl-4 K-3; 5% Po IG BD
			457870	179.00	180.00	1.00	; 5% Po IG BD
			457871	180.00	181.00	1.00	S9D; Ep-4 Chl-4 Ank-3; 5% Po IG BD
			457872	181.00	182.00	1.00	S9D; Ep-4 Chl-4 Ank-3; 1% Po AL VN
			457873	182.00	183.00	1.00	S9D; Ep-4 Chl-4 Ank-3; 1% Po AL VN
			457874	183.00	184.00	1.00	S9D; Ep-4 Chl-4 Ank-3; 1% Po AL VN
			457875	184.00	185.00	1.00	S9D; Ep-4 Chl-4 Ank-3; 1% Po AL VN
			457876	185.00	186.00	1.00	S9D; Ep-4 Chl-4 Ank-3; 1% Po AL VN
			457877	186.00	187.00	1.00	S9D; Ep-4 Chl-4 Ank-3; 1% Po AL VN
			457878	187.00	188.00	1.00	S9D; Ep-4 Chl-4 Ank-3; 1% Po AL VN
			457880	188.00	189.00	1.00	S9D; Ep-4 Chl-4 Ank-3; 1% Po AL VN
			457881	189.00	190.00	1.00	S9D; Ep-4 Chl-4 Ank-3; 1% Po AL VN
			457882	190.00	191.00	1.00	S9D; Ep-4 Chl-4 Ank-3; 1% Po AL VN
			457883	191.00	192.00	1.00	S9D; NO ALT
			457884	192.00	193.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			457885	193.00	194.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			457887	194.00	195.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			457888	195.00	196.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			457889	196.00	197.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			457890	197.00	198.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			457891	198.00	199.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			457892	199.00	200.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			457893	200.00	201.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			457894	201.00	202.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			457895	202.00	203.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			457896	203.00	204.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			457897	204.00	205.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			457898	205.00	206.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			457900	206.00	207.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			403501	207.00	208.00	1.00	S9D; NO ALT; 0.5% Po AL VN
			403502	208.00	209.00	1.00	S9D; NO ALT; 0.5% Po AL VN
		403503	209.00	210.00	1.00	S9D; NO ALT; 0.5% Po AL VN	
		403504	210.00	211.00	1.00	S9D; NO ALT; 0.5% Po AL VN	
		403505	211.00	212.00	1.00	S9D; NO ALT; 0.5% Po AL VN	
		403507	212.00	213.00	1.00	S9D; NO ALT; 0.5% Po AL VN	
		403508	213.00	214.00	1.00	S9D; NO ALT; 0.5% Po AL VN	
		403509	214.00	215.00	1.00	S9D; NO ALT; 0.5% Po AL VN; FLD 4	
		403510	215.00	216.00	1.00	S9D; NO ALT; 0.5% Po AL VN; FLD 4	
		403511	216.00	217.00	1.00	S9D; NO ALT; 0.5% Po AL VN; FLD 4	

Comments:

From	To	Lithology	Sample	From	To	Length	Comments
			403512	217.00	218.00	1.00	S9D; NO ALT; 0.5% Po AL VN; FLD 4
			403513	218.00	219.00	1.00	S9D; Ank-1 Chl-1; 0.5% Po AL VN; FLD 4
			403514	219.00	220.00	1.00	S9D; Ank-1 Chl-1; 0.5% Po AL VN; FLD 4
			403515	220.00	221.00	1.00	S9D; Ank-1 Chl-1; 0.5% Po AL VN; FLD 4
			403516	221.00	222.00	1.00	S9D; Ank-1 Chl-1; 0.5% Po AL VN; FLD 4
			403517	222.00	223.00	1.00	S9D; Ank-1 Chl-1; 0.5% Po AL VN; FLD 4
			403518	223.00	224.00	1.00	S9D; Ank-1 Chl-1; 0.5% Po AL VN; FLD 4
			403520	224.00	225.00	1.00	S9D; Ank-1 Chl-1; 0.5% Po AL VN; FLD 4
			403521	225.00	226.00	1.00	S9D; Ank-1 Chl-1; 0.5% Po AL VN; FLD 4
			403522	226.00	227.00	1.00	S9D; Ank-2 Chl-2 Ep-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403523	227.00	228.00	1.00	S9D; Ank-2 Chl-2 Ep-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403524	228.00	229.00	1.00	S9D; Ank-2 Chl-2 Ep-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403525	229.00	230.00	1.00	S9D; Ank-2 Chl-2 Ep-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403527	230.00	231.00	1.00	S9D; Ank-2 Chl-2 Ep-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403528	231.00	232.00	1.00	S9D; Ank-2 Chl-2 Ep-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403529	232.00	233.00	1.00	S9D; Ank-2 Chl-2 Ep-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403530	233.00	234.00	1.00	S9D; Ank-2 Chl-2 Ep-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403531	234.00	235.00	1.00	S9D; Ank-2 Chl-2 Ep-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403532	235.00	236.00	1.00	S9D; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403533	236.00	237.00	1.00	S9D; Ank-4 Chl-4 Ep-2 Chl-2 Ser-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403534	237.00	238.00	1.00	S9D; Ank-4 Chl-4 Ep-2 Chl-2 Ser-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403535	238.00	239.00	1.00	S9D; Ank-4 Chl-4 Ep-2 Chl-2 Ser-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403536	239.00	240.00	1.00	S9D; Ank-4 Chl-4 Ep-2 Chl-2 Ser-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403537	240.00	241.00	1.00	S9D; Ank-4 Chl-4 Ep-2 Chl-2 Ser-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403538	241.00	242.00	1.00	S9D; Ank-4 Chl-4 Ep-2 Chl-2 Ser-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403540	242.00	243.00	1.00	S9D; Ank-4 Chl-4 Ep-2 Chl-2 Ser-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403541	243.00	244.00	1.00	S9D; Ank-4 Chl-4 Ep-2 Chl-2 Ser-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403542	244.00	245.00	1.00	S9D; Ank-4 Chl-4 Ep-2 Chl-2 Ser-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403543	245.00	246.00	1.00	S9D; Ank-4 Chl-4 Ep-2 Chl-2 Ser-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN
			403544	246.00	247.00	1.00	S9D; Ank-4 Chl-4 Ep-2 Chl-2 Ser-2; 3% Po AL VN 0.5% Py SS PER 0.1% Cp DI VN

From	To	Lithology	Sample	From	To	Length	Comments			
247.00	272.60	S6g, Grey Shale	456973	247.00	249.00	2.00	S6g; Chl-1 Ser-1; 0.1% Po DI PER			
<b>Comments:</b>			456974	249.00	251.00	2.00	S6g; Chl-1 Ser-1; 0.1% Po DI PER			
			456975	251.00	253.00	2.00	S6g; Chl-1 Ser-1; 0.1% Po DI PER; FLD 5			
			456977	253.00	255.00	2.00	S6g; Chl-1 Ser-1; 0.1% Po DI PER; FLD 5			
			456978	255.00	257.00	2.00	S6g; Chl-1 Ser-1; 0.1% Po DI PER; FLD 5			
			456979	257.00	259.00	2.00	S6g; Chl-1 Ser-1; 0.1% Po DI PER; FLD 5			
			456980	259.00	261.00	2.00	S6g; Chl-1 Ser-1; 0.1% Po DI PER; 95% I1N CL SR 1 cm			
			456981	261.00	263.00	2.00	S6g; Chl-1 Ser-1; 0.1% Po DI PER			
			456982	263.00	265.00	2.00	S6g; Chl-1 Ser-1; 0.1% Po DI PER; FLD 5			
			456983	265.00	267.00	2.00	S6g; Chl-1 Ser-1; 0.1% Po DI PER; FLD 5			
			456984	267.00	269.00	2.00	S6g; Chl-1 Ser-1; 0.1% Po DI PER; FLD 5			
			456985	269.00	271.00	2.00	S6g; Chl-1 Ser-1; 0.1% Po DI PER; FLD 5			
			456986	271.00	272.60	1.60	S6g; Chl-1 Ser-1; 0.1% Po DI PER; FLD 5			
			272.60	292.00	I3A, Gabbro	456987	272.60	274.00	1.40	I3A QZ; Carb-1 Chl-1; 0.1% Po DI PER
			<b>Comments:</b>			456988	274.00	276.00	2.00	I3A QZ; Carb-1 Chl-1; 0.1% Po DI PER
456990	276.00	278.00				2.00	; Carb-1 Chl-1; 0.1% Po DI PER; FO 5			
456991	278.00	280.00				2.00	I3A; Carb-1 Chl-1; 0.1% Po DI PER; FO 5			
456992	280.00	282.00				2.00	; 0.1% Po DI PER; FO 5			
456993	282.00	284.00				2.00	I3A; Carb-2 Carb-1			
456994	284.00	286.00				2.00	I3A; Carb-2 Carb-1; 2% Po DI PER			
456995	286.00	288.00				2.00	I3A; Carb-1; 2% Po DI PER			
456997	288.00	290.00				2.00	I3A; Carb-1; 2% Po DI PER			
456998	290.00	292.00				2.00	I3A; Carb-1; 2% Po DI PER			

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
28.00	350.40	-67.60	FM	Test Non-OK	
31.00	349.60	-67.70	FM	Test Non-OK	
34.00	355.10	-67.80	FM	Test Non-OK	
37.00	267.30	-68.00	FM	Test Non-OK	
40.00	260.40	-69.00	FM	Test OK-Accept	
43.00	232.70	-77.40	FM	Test Non-OK	
46.00	263.40	-67.90	FM	Test OK-Accept	
49.00	263.30	-67.90	FM	Test OK-Accept	
52.00	263.20	-67.90	FM	Test OK-Accept	
55.00	263.60	-67.90	FM	Test OK-Accept	
58.00	263.20	-67.90	FM	Test OK-Accept	
61.00	263.30	-67.90	FM	Test OK-Accept	
64.00	252.40	-70.40	FM	Test Non-OK	
67.00	263.70	-67.90	FM	Test OK-Accept	
70.00	263.90	-67.90	FM	Test OK-Accept	
73.00	263.50	-68.00	FM	Test OK-Accept	
76.00	256.30	-69.00	FM	Test Non-OK	
79.00	264.00	-68.00	FM	Test OK-Accept	
82.00	264.10	-68.00	FM	Test OK-Accept	
85.00	264.10	-68.00	FM	Test OK-Accept	
88.00	263.00	-68.10	FM	Test OK-Accept	
91.00	264.50	-67.90	FM	Test OK-Accept	
94.00	264.50	-67.90	FM	Test OK-Accept	
97.00	264.50	-67.80	FM	Test OK-Accept	
100.00	264.60	-67.80	FM	Test OK-Accept	
103.00	264.60	-67.80	FM	Test OK-Accept	
106.00	265.30	-67.60	FM	Test OK-Accept	
109.00	265.00	-67.70	FM	Test OK-Accept	
112.00	265.00	-67.70	FM	Test OK-Accept	
115.00	273.50	-65.60	FM	Test Non-OK	
118.00	265.20	-67.60	FM	Test OK-Accept	
121.00	265.50	-67.60	FM	Test OK-Accept	
124.00	264.60	-67.60	FM	Test OK-Accept	
127.00	265.60	-67.50	FM	Test OK-Accept	
130.00	302.90	-53.30	FM	Test Non-OK	
133.00	265.50	-67.50	FM	Test OK-Accept	
136.00	307.30	-60.90	FM	Test Non-OK	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
139.00	266.30	-67.30	FM	Test OK-Accept	
142.00	264.80	-67.30	FM	Test OK-Accept	
145.00	266.20	-67.40	FM	Test OK-Accept	
148.00	266.30	-67.20	FM	Test OK-Accept	
151.00	266.20	-67.20	FM	Test OK-Accept	
154.00	266.20	-67.10	FM	Test OK-Accept	
157.00	266.10	-67.00	FM	Test Non-OK	
160.00	265.90	-67.00	FM	Test Non-OK	
163.00	265.60	-67.00	FM	Test Non-OK	
166.00	265.00	-67.00	FM	Test Non-OK	
169.00	263.90	-67.00	FM	Test Non-OK	
172.00	262.50	-66.90	FM	Test Non-OK	
175.00	261.20	-66.90	FM	Test Non-OK	
178.00	258.30	-66.80	FM	Test Non-OK	
181.00	256.80	-66.70	FM	Test Non-OK	
184.00	254.90	-66.70	FM	Test Non-OK	
187.00	255.60	-66.70	FM	Test Non-OK	
190.00	258.00	-66.60	FM	Test Non-OK	
193.00	259.50	-66.60	FM	Test Non-OK	
196.00	261.00	-66.60	FM	Test Non-OK	
199.00	261.10	-66.60	FM	Test Non-OK	
202.00	300.70	-54.60	FM	Test Non-OK	
205.00	263.30	-66.50	FM	Test Non-OK	
208.00	264.50	-66.20	FM	Test Non-OK	
211.00	263.80	-66.50	FM	Test Non-OK	
214.00	263.50	-66.60	FM	Test Non-OK	
217.00	264.30	-66.40	FM	Test OK-Accept	
220.00	263.70	-66.40	FM	Test Non-OK	
223.00	264.00	-66.30	FM	Test OK-Accept	
226.00	264.00	-66.30	FM	Test OK-Accept	
229.00	241.30	-71.30	FM	Test Non-OK	
232.00	264.00	-66.20	FM	Test OK-Accept	
235.00	263.90	-66.20	FM	Test OK-Accept	
238.00	263.80	-66.20	FM	Test OK-Accept	
241.00	263.00	-66.20	FM	Test OK-Accept	
244.00	263.60	-66.10	FM	Test OK-Accept	
247.00	263.50	-66.10	FM	Test OK-Accept	
250.00	263.80	-66.10	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
253.00	263.70	-66.00	FM	Test OK-Accept	
256.00	263.50	-66.10	FM	Test OK-Accept	
259.00	263.50	-66.00	FM	Test OK-Accept	
262.00	263.40	-66.00	FM	Test OK-Accept	
265.00	263.40	-65.90	FM	Test OK-Accept	
268.00	263.40	-65.90	FM	Test OK-Accept	
271.00	263.50	-65.90	FM	Test OK-Accept	
274.00	263.30	-66.00	FM	Test OK-Accept	
277.00	263.50	-65.90	FM	Test OK-Accept	
280.00	263.70	-65.90	FM	Test OK-Accept	
283.00	264.30	-65.90	FM	Test OK-Accept	
286.00	212.50	-75.40	FM	Test Non-OK	
289.00	260.90	-65.90	FM	Test OK-Accept	
292.00	261.30	-65.90	FM	Test OK-Accept	

Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
33.00	39.50	I3A	GH	FO			I3A GH			VM		2	MG				
39.50	65.50	S6g	CS	BD			S6g			GM	VL	2	Aph				BC
65.50	130.80	I3A	GH	PI	MA	HJ	I3A GH			VM		2	MG		70.00		DIF
130.80	134.90	S6g	BD	PQ	HJ		S6g			GM	BN	2	FG				BC Transitional unit between gabbro and grey shale?? Does not seem to be geochemically different from underlying grey shale?? Contains <1mm disseminated euhedral ankerite grains (about 3%) as well as sub-millimetric chlorite grains. It might just be altered sheared gabbro? Only one fabric is present, schistosity/bedding oriented approx 60-65TCA.
134.90	139.00	S6g	IU	HK	CS		S6g			GM	GN	2	FG				DIF Textural contact with overlying unit is injected with 15-20% quartz-ankerite-chlorite-sericite-pyrrhotite veins.
139.00	152.90	S6g	CS	BD	HJ		S6g			GM	GN	2	Aph		73.00		SHP Regular bedding at approx 70TCA. Two fabrics are strongly present throughout the interval. A crenulation at approx 40TCA and a bedding at approx 70TCA. Visually, it looks like the classic grey shale unit.
152.90	155.70	S10	BX	BD			S10B			GL	WH	3	Aph		73.00		SHP Interpreted as a chert unit because of the subconcordant contacts with overlying grey shale and underlying iron formation Locally brecciated interval of 3-5 cm at 154.8m
155.70	172.50	S9	BD				S9C Ank	10.00	Carbonate	GM	GN	2	FG		76.00		DIF Interval is more or less homogeneous. Banding is regular, centimetric, alternating between carbonate chert and carbonate iron formation with ankerite.
172.50	176.00	S10	BX	HK	BD		S10D			GM		3	FG		54.00		DIF
176.00	179.90	S9	RU	HK			S9D	15.00	Carbonate	VM	VL	3	FG				DIF Interval containing 15-20% (feldspath-K veins??) hematized chert bands (or veins).
179.90	191.00	S9	BD				S9D	7.00	Silica	GN		3	FG				DIF Interval with epidote alteration, as well as 5-8% centimetric silicate chert beds.
191.00	226.00	S9	BD	HJ			S9D	15.00	Carbonate	GM		3	FG				DIF
226.00	247.00	S9	HK	BD			S9D	15.00	Silica	VM	GL	3	FG				
247.00	272.60	S6g	BD	RU			S6g			GM	VM	2	FG				DIF



From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
272.60	276.30	I3A	GH	MA	HJ		I3A QZ			VD		2	MG		71.00	DIF	Massive, homogeneous gabbro with 5-7% mm blue quartz in rounded "nodules" with calcite/carbonates.
276.30	280.20	I3A	CS	HJ			I3A			GL	VL	2	Aph			VN	
280.20	292.00	I3A	FO	GH	HJ		I3A			VD		2	MG			NA	Contains weak foliation. Amphiboles are weak-moderate aligned. Upper contact with schistous gabbro is veined, and there is 8-10% mm calcite crystals in "baguettes"

Mineralization Data																		
From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3	
33.00	46.00						NO MIN											
46.00	55.00		Po	0.50	AL	VN	Small mm clusters/blebs of pyrrhotite associated to veins and veinlets.											
55.00	65.50		Po	0.10	DI	SCH												
65.50	132.00		Po	0.50	DI	PER		Mt	0.50	DI	PER							
132.00	134.90		Po	1.00	AL	VN												
134.90	139.70		Po	2.00	AL	VN												
139.70	152.90		Po	0.10	DI	SCH												
152.90	155.70		Po	0.10	DI	PER	trace mm clusters of pyrrhotite disseminated											
155.70	170.30		Po	0.50	SS	BD	trace to 1% mm pyrrhotite disseminated in fine stringers parallel to bedding.											
170.30	170.60		Po	2.00	AL	BD	interstitial clusters of pyrrhotite mm to cm, contained in silicified zone from 170.3 to 170.6m.											
170.60	172.50		Po	2.00	SS	SCH	mm stringers/veinlets of pyrrhotite associated with chlorite. Mostly parallel to schistosity. Also found in clusters associated with silicification in veinlets.											
172.50	176.00		Po	2.00	IG	FRC	mm fractures in silicified interval filled with pyrrhotite.	Po	18.00	IG	VN	interstitial pyrrhotite associated with chlorite, seems to be matrix of silicified fragments. occurs with chlorite and ankerite.						
176.00	181.00		Po	5.00	IG	BD	interstitial pyrrhotite associated with siliceous/cherty beds											
181.00	191.20		Po	1.00	AL	VN	pyrrhotite clusters associated to quartz-ankerite-chlorite vein (centimetric)											
191.20	226.00		Po	0.50	AL	VN	Trace to 1% disseminated clusters of pyrrhotite, associated with veins.											
226.00	247.00		Po	3.00	AL	VN	fine millimetric clusters of pyrrhotite disseminated within quartz-ankerite-chlorite veins, as well as disseminated in wall rock associated with veins.	Py	0.50	SS	PER	very fine <1mm low core angle discontinuous pyrite stringers	Cp	0.10	DI	VN	trace disseminated chalcopyrite in veins	
247.00	282.20		Po	0.10	DI	PER												
282.20	292.00		Po	2.00	DI	PER												

Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
33.00	39.50	Carb	1	PEN							
39.50	51.20	Sil	1	VN	Chl	1	VN				
51.20	59.20	Sil	1	VN	Ank	2	DI				
59.20	65.50	Sil	1	VN	Ank	1	DI	Carb	2	PEN	
65.50	99.30	Carb	1	PEN							
99.30	99.70	BL	2	PEN							
99.70	119.00	Carb	2	PEN							
119.00	129.00	NO ALT									
129.00	134.90	Ank	1	DI	Sil	2	VN	Chl	2	VN	
134.90	139.70	Chl	3	VN	Ank	3	VN	Sil	3	VN	
139.70	152.90	Sil	1	VN							5-8% mm to 0.5cm quartz veins parallel to bedding.
152.90	155.70	Sil	3	PEN	Ank	2	DI	Chl	1	VN	
155.70	164.00	Chl	2	PEN	Ser	2	PEN				penetrative chloritization and sericitization in cm beds.
164.00	172.50	Chl	4	RU	Ser	2	RU	Ank	2	DI	
172.50	176.00	Sil	4	PEN	Ank	2	DI	Chl	2	PCH	
176.00	179.90	Chl	4	SCH	K	3	VN				
179.90	191.00	Ep	4	CTL	Chl	4	CTL	Ank	3	VN	
191.00	218.00	NO ALT									
218.00	226.00	Ank	1	CTL	Chl	1	CTL				
226.00	235.50	Ank	2	CTL	Chl	2	CTL	Ep	2	CTL	
235.50	247.00	Ank	4	VN	Chl	4	VN	Ep	2	CTL	
247.00	272.60	Chl	1	CTL	Ser	1	VN				
272.60	280.20	Carb	1	PEN	Chl	1	PEN				
280.20	286.00	Carb	2	DI	Carb	1	VN				
286.00	292.00	Carb	1	VN							

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
134.90	139.70	15.00	20.00	I1N	UNK	Vein >5cm	CL	5.00	AK	5.00	SR	1.00			60.00	Po	3.00			
260.00	261.00	95.00	1.00	I1N	UNK	Vein >5cm	CL	5.00	SR	2.00	AK	3.00								

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
34.00	43.00	BC	5		Core was grinded between 33 metres and 46 metres at several places, but the drillers did not keep track of the empty tubes. Rods were counted at 136 metres. 6 metres of core was recovered between
139.70	152.89	BD	5	70.00	Presence of two fabrics, very prominent. One crenulation at approx 40TCA and one bedding (S0+S1) at approx 70TCA.
171.30	172.50	FLD	4	15.00	Very flat fold, hinge of parasitic fold maybe?
214.00	226.00	FLD	4	10.00	Very flat stratification that changes direction, hinge of folding
250.40	260.00	FLD	5	60.00	Very tight, M-folding
262.00	272.60	FLD	5	55.00	Very tight, M-folding
276.00	282.20	FO	5		Sheared gabbro?

## Oriented Structure Data

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
47.80	S0		64.00										
49.40	S2		40.00										
53.80	S0		74.00										
60.70	S0		70.00	78.00	263.73	-67.90	-32.45	32.31	0.00	122.31			
65.20	S2		48.00										
72.50	VN		68.00	38.00	264.07	-68.00	-41.49	14.44	0.00	104.44			
73.20	S0		60.00	104.00	264.10	-68.00	-31.98	60.47	0.00	150.47			
73.50	VN		50.00	16.00	264.10	-68.00	-61.39	5.74	0.00	95.74			
77.20	S0		63.00	44.00	263.37	-68.07	-45.21	19.75	0.00	109.75			
88.70	S0		68.00	295.00	264.60	-67.80	-37.00	320.26	0.00	50.26			Orientation line is good, however, the foliation/bedding structure is very subtle, difficult to measure
94.20	S0		65.00	310.00	265.15	-67.65	-42.70	326.63	0.00	56.63			
94.70	S0		71.00	324.00	265.10	-67.67	-39.24	337.49	0.00	67.49			Orientation line is good, however, the foliation/bedding structure is very subtle, difficult to measure
102.80	S0		55.00										
112.90	S0		66.00	65.00	296.68	-55.67	-48.90	55.97	0.00	145.97			
118.80	S0		68.00	79.00	293.63	-63.03	-37.44	60.85	0.00	150.85			
122.10	S0		70.00	50.00	265.30	-67.30	-38.55	20.16	0.00	110.16			Orientation line is good, however, the foliation/bedding structure is very subtle, difficult to measure
124.30	VN		54.00	184.00	265.50	-67.35	-13.49	185.63	0.00	275.63			
124.60	S0		74.00	286.00	265.73	-67.37	-30.91	324.68	0.00	54.68			
127.60	S0		72.00	352.00	266.28	-67.23	-40.66	352.50	0.00	82.50			
128.10	VN		65.00	3.00	266.28	-67.20	-47.78	357.99	0.00	87.99			
130.80	CNT		70.00										
131.70	S0		63.00										
134.60	S0		68.00										
138.70	S2		46.00	326.00	265.80	-67.00	-64.08	330.21	0.00	60.21			
138.71	VN		68.00	120.00	265.80	-67.00	-22.08	55.46	0.00	145.46			
140.20	S2		37.00										
143.40	S0		70.00										
147.20	S0		60.00	50.00	262.97	-66.93	-47.87	24.06	0.00	114.06			
148.70	S2		54.00	302.00	262.07	-66.90	-51.54	312.53	0.00	42.53			
151.80	S0		73.00	46.00	259.75	-66.85	-36.92	10.24	0.00	100.24			
152.10	VN		64.00	332.00	259.27	-66.83	-47.62	333.09	0.00	63.09			
152.90	CNT		73.00										
154.30	S0		69.00	47.00	257.55	-66.75	-40.42	11.39	0.00	101.39			
155.70	CNT		73.00										

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
157.30	S0		66.00	24.00	255.53	-66.70	-46.21	358.78	0.00	88.78			
160.70	S0		72.00										
163.40	S0		64.00	0.00	258.25	-66.60	-49.40	348.25	0.00	78.25			
165.70	S0		66.00	0.00	259.75	-66.60	-47.40	349.75	0.00	79.75			
165.71	SS		44.00	100.00	259.75	-66.60	-46.60	66.93	0.00	156.93			2nd fabric found at 165.7 metres. Might correspond to S2? Tiny <1mm veinlets of carbonate and chlorite and sericite??
167.40	S0		58.00	15.00	260.50	-66.60	-54.90	0.15	0.00	90.15			
171.30	S0		18.00	4.00	274.30	-62.60	-80.66	188.16	0.00	278.16			Near a (parasitic?) fold hinge. Strati becomes very flat.
172.50	CNT		76.00	178.00	287.50	-58.60	-17.41	19.12	0.00	109.12			orientation line high confidence, because two tests fit together;
176.30	S0		48.00	338.00	263.70	-66.40	-64.37	337.56	0.00	67.56			
177.80	VN		40.00	308.00	264.30	-66.25	-66.52	313.14	0.00	43.14			
179.40	S0		68.00	175.00	264.15	-66.35	-2.55	41.48	0.00	131.48			
184.80	S0		53.00	233.00	264.03	-66.47	-28.74	262.46	0.00	352.46			
185.10	VN		15.00	330.00	264.17	-66.43	-84.42	145.14	0.00	235.14			
187.30	S0		33.00	207.00	263.90	-66.40	-37.04	213.11	0.00	303.11			
190.40	S0		44.00										
193.50	AxialPlane		76.00	328.00	260.22	-67.13	-35.48	337.46	0.00	67.46			
193.51			76.00	328.00	256.43	-67.97	-34.67	333.41	0.00	63.41	108.00	FAXIS	
198.60	S0		75.00	258.00	263.97	-66.20	-25.11	317.34	0.00	47.34			
205.40	S0		65.00	200.00	263.13	-66.20	-8.31	264.08	0.00	354.08			
214.50	S0		43.00	234.00	263.75	-66.05	-37.08	252.66	0.00	342.66			
218.20	S0		66.00	44.00	263.50	-66.08	-44.23	17.39	0.00	107.39			
221.10	AxialPlane		65.00	342.00	263.47	-66.00	-48.36	343.40	0.00	73.40			
221.11			65.00	342.00	263.47	-66.00	-48.36	343.40	0.00	73.40	133.00	FAXIS	
221.20	S0		50.00	225.00	263.47	-66.00	-27.79	250.62	0.00	340.62			
222.70	S0		58.00	0.00	263.42	-66.00	-56.00	353.42	0.00	83.42			
227.00	S0		50.00	180.00	263.40	-65.90	-15.90	173.40	0.00	263.40			
229.50	S0		52.00	200.00	263.45	-65.90	-17.15	219.03	0.00	309.03			
232.00	S0		57.00										
238.90	AxialPlane		88.00	123.00	263.90	-65.90	-23.07	358.18	0.00	88.18			
238.91			88.00	123.00	263.90	-65.90	-23.07	358.18	0.00	88.18	8.00	FAXIS	
245.00	S0		64.00										
250.60	AxialPlane		60.00	300.00	261.30	-65.90	-46.49	314.64	0.00	44.64			
250.61			60.00	300.00	261.30	-65.90	-46.49	314.64	0.00	44.64	132.00	FAXIS	
253.30	AxialPlane		59.00	300.00	261.30	-65.90	-47.37	313.98	0.00	43.98			
253.31			59.00	300.00	261.30	-65.90	-47.37	313.98	0.00	43.98	95.00	FAXIS	

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
254.10	S0		70.00	231.00	261.30	-65.90	-18.97	296.46	0.00	26.46			
254.70	VN		52.00	310.00	261.30	-65.90	-56.10	316.67	0.00	46.67			
258.20	S0		68.00	240.00	261.30	-65.90	-22.65	293.92	0.00	23.92			
265.20	S2		58.00	290.00	261.30	-65.90	-45.56	307.08	0.00	37.08			
269.30	S2		52.00	325.00	261.30	-65.90	-59.11	327.00	0.00	57.00			
269.31			52.00	325.00	261.30	-65.90	-59.11	327.00	0.00	57.00	77.00	CLINE	
270.90	S2		53.00	297.00	261.30	-65.90	-51.87	308.32	0.00	38.32			
276.80	S0		82.00	240.00	261.30	-65.90	-21.19	331.83	0.00	61.83			
278.40	S0		56.00	283.00	261.30	-65.90	-45.14	301.06	0.00	31.06			
282.20	VN		22.00	344.00	261.30	-65.90	-88.74	156.49	0.00	246.49			
285.60	VN		36.00	344.00	261.30	-65.90	-77.35	338.09	0.00	68.09			
288.80	S0		30.00	88.00	261.30	-65.90	-63.64	66.31	0.00	156.31			
290.80	VN		50.00	146.00	261.30	-65.90	-23.53	107.09	0.00	197.09			qz-cl-ak-po veinlet

Sample Data - ASSAY

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456902	34.00	36.00	2.00	2	VO18174632 - Finalized	12/08/2018	0.001	0.020	1.00	29.00	9.27	1,580.0	0.003	330.00	0.24	187.00	91.00
456903	36.00	38.00	2.00	2	VO18174632 - Finalized	12/08/2018	0.001	0.010	0.50	57.50	9.56	1,540.0	0.003	345.00	0.15	160.00	97.00
456904	38.00	39.50	1.50	2	VO18174632 - Finalized	12/08/2018	0.001	0.020	1.20	85.80	9.34	1,600.0	0.003	350.00	0.30	139.50	102.00
456905	39.50	41.00	1.50	2	VO18174632 - Finalized	12/08/2018	0.001	0.040	3.00	47.90	2.92	469.0	0.003	137.00	4.13	58.10	33.00
456906	41.00	43.00	2.00	2	VO18174632 - Finalized	12/08/2018	0.001	0.050	1.20	75.60	3.44	270.0	0.003	129.00	4.02	40.10	35.00
456907	43.00	45.00	2.00	2	VO18174632 - Finalized	12/08/2018	0.001	0.050	0.50	54.60	2.54	149.0	0.003	127.00	3.04	37.10	21.00
456908	45.00	47.00	2.00	2	VO18174632 - Finalized	12/08/2018	0.001	0.110	0.20	108.50	3.39	250.0	0.003	111.00	2.05	38.70	33.00
456910	47.00	49.00	2.00	2	VO18174632 - Finalized	12/08/2018	0.002	0.080	0.40	82.50	4.30	347.0	0.003	96.00	0.96	35.20	71.00
456911	49.00	51.00	2.00	2	VO18174632 - Finalized	12/08/2018	0.001	0.070	0.10	81.10	4.19	336.0	0.003	103.00	1.68	34.70	65.00
456912	51.00	53.00	2.00	2	VO18174632 - Finalized	12/08/2018	0.001	0.270	2.10	91.70	3.34	320.0	0.003	108.00	2.09	32.00	47.00
456913	53.00	55.00	2.00	2	VO18174632 - Finalized	12/08/2018	0.001	0.030	0.50	52.50	3.60	234.0	0.003	76.00	0.41	31.50	77.00
456914	55.00	57.00	2.00	2	VO18174632 - Finalized	12/08/2018	0.001	0.070	0.50	77.80	4.06	210.0	0.003	80.00	0.55	33.00	178.00
456915	57.00	59.00	2.00	2	VO18174632 - Finalized	12/08/2018	0.001	0.020	1.30	21.30	3.01	182.0	0.003	75.00	0.44	31.40	78.00
456917	59.00	61.00	2.00	2	VO18174632 - Finalized	12/08/2018	0.001	0.080	2.40	44.30	1.73	231.0	0.003	84.00	0.64	28.90	44.00
456918	61.00	63.00	2.00	2	VO18174632 - Finalized	12/08/2018	0.001	0.090	0.30	99.60	1.58	207.0	0.003	109.00	1.93	31.20	31.00
456919	63.00	64.50	1.50	2	VO18174632 - Finalized	12/08/2018	0.001	0.120	18.80	191.50	2.38	254.0	0.003	114.00	5.47	51.40	49.00
456920	64.50	65.50	1.00	2	VO18174632 - Finalized	12/08/2018	0.001	0.020	25.40	124.00	3.58	444.0	0.003	130.00	1.45	105.00	46.00
456921	65.50	67.00	1.50	2	VO18174634 - Finalized	12/08/2018	0.008	0.050	17.70	92.30	8.50	1,400.0	0.003	337.00	0.17	140.00	100.00
456922	67.00	69.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.002	0.010	21.30	16.40	8.24	1,380.0	0.003	280.00	0.09	170.50	90.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456923	69.00	71.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.002	0.005	26.30	1.70	7.99	1,360.0	0.003	254.00	0.09	193.00	88.00
456924	71.00	73.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.002	0.005	29.80	1.20	9.59	1,410.0	0.003	277.00	0.07	259.00	106.00
456925	73.00	75.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.005	0.050	34.80	81.90	9.32	1,480.0	0.006	231.00	0.16	336.00	109.00
456926	75.00	77.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.008	0.050	19.60	83.10	9.40	1,460.0	0.010	226.00	0.11	386.00	102.00
456927	77.00	79.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.003	0.070	36.90	109.50	8.77	1,440.0	0.012	206.00	0.15	386.00	102.00
456928	79.00	81.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.005	0.060	19.90	77.80	8.62	1,460.0	0.013	175.00	0.20	441.00	99.00
456930	81.00	83.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.004	0.080	18.30	128.00	8.18	1,240.0	0.019	198.00	0.19	384.00	80.00
456931	83.00	85.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.001	0.040	16.20	70.30	7.99	1,260.0	0.005	180.00	0.09	432.00	78.00
456932	85.00	87.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.004	0.040	31.40	63.10	8.79	1,320.0	0.006	163.00	0.08	558.00	86.00
456933	87.00	89.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.001	0.050	13.80	88.80	8.23	1,240.0	0.016	151.00	0.07	552.00	79.00
456934	89.00	91.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.001	0.040	14.80	83.10	8.59	1,280.0	0.015	147.00	0.09	598.00	84.00
456935	91.00	93.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.001	0.040	9.40	67.90	8.73	1,300.0	0.016	140.00	0.06	625.00	84.00
456937	93.00	95.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.001	0.060	10.00	109.50	8.21	1,260.0	0.012	147.00	0.10	572.00	83.00
456938	95.00	97.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.002	0.150	11.60	273.00	8.29	1,400.0	0.036	149.00	0.14	628.00	94.00
456939	97.00	99.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.001	0.050	13.50	115.00	7.79	1,220.0	0.010	154.00	0.08	480.00	81.00
456940	99.00	101.00	2.00	2	VO18174634 - Finalized	12/08/2018	0.001	0.010	27.00	38.10	7.83	1,160.0	0.005	162.00	0.13	556.00	80.00
456941	101.00	103.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.001	0.030	28.10	65.20	7.89	1,200.0	0.010	163.00	0.14	507.00	85.00
456942	103.00	105.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.001	0.050	16.60	120.50	6.66	1,080.0	0.018	188.00	0.16	300.00	71.00
456943	105.00	107.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.001	0.040	5.60	96.30	6.68	1,200.0	0.012	241.00	0.13	149.50	64.00
456944	107.00	109.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.001	0.040	2.80	113.50	6.19	1,170.0	0.008	209.00	0.18	94.40	62.00
456945	109.00	111.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.001	0.050	0.80	123.00	7.14	1,360.0	0.019	255.00	0.22	73.10	72.00
456946	111.00	113.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.001	0.030	0.50	137.50	7.22	1,380.0	0.018	252.00	0.18	72.70	75.00
456947	113.00	115.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.001	0.040	2.40	146.00	7.50	1,360.0	0.013	295.00	0.21	64.30	72.00
456948	115.00	117.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.001	0.050	2.80	152.50	7.31	1,410.0	0.011	275.00	0.15	64.70	73.00
456950	117.00	119.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.001	0.040	1.60	81.40	8.41	1,460.0	0.017	337.00	0.18	49.50	82.00
456951	119.00	121.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.002	0.200	0.60	406.00	12.95	1,610.0	0.022	1 080.00	0.17	47.60	108.00
456952	121.00	123.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.008	0.030	1.00	78.60	13.20	1,720.0	0.007	936.00	0.23	14.70	115.00
456953	123.00	125.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.001	0.040	0.60	66.40	12.50	1,900.0	0.008	454.00	0.37	19.50	139.00
456954	125.00	127.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.001	0.010	0.20	17.80	11.50	2,190.0	0.003	37.00	0.82	0.60	148.00
456955	127.00	129.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.001	0.005	0.10	13.80	6.85	1,040.0	0.003	54.00	1.25	15.80	104.00
456957	129.00	130.80	1.80	2	VO18174635 - Finalized	12/08/2018	0.001	0.030	0.10	33.40	3.37	402.0	0.003	112.00	2.04	28.60	68.00
456958	130.80	132.00	1.20	2	VO18174635 - Finalized	12/08/2018	0.001	0.010	0.10	22.10	3.32	247.0	0.003	112.00	2.11	32.00	77.00
456959	132.00	134.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.001	0.050	0.60	36.10	2.75	377.0	0.005	103.00	3.13	41.90	63.00
456960	134.00	136.00	2.00	2	VO18174635 - Finalized	12/08/2018	0.001	0.060	0.10	41.70	6.77	816.0	0.007	90.00	1.42	34.20	74.00
456961	136.00	138.00	2.00	2	VO18177129 - Finalized	10/08/2018	0.001	0.180	1.00	40.80	6.83	672.0	0.003	89.00	0.67	41.60	88.00
456962	138.00	140.00	2.00	2	VO18177129 - Finalized	10/08/2018	0.001	0.070	0.30	42.10	5.19	539.0	0.006	67.00	0.73	29.30	100.00
456963	140.00	142.00	2.00	2	VO18177129 - Finalized	10/08/2018	0.001	0.050	0.10	39.40	4.45	346.0	0.003	101.00	1.34	34.80	76.00



Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456964	142.00	144.00	2.00	2	VO18177129 - Finalized	10/08/2018	0.001	0.100	0.20	20.00	3.55	433.0	0.003	62.00	0.64	28.60	61.00
456965	144.00	146.00	2.00	2	VO18177129 - Finalized	10/08/2018	0.001	0.030	0.10	26.30	5.64	405.0	0.005	98.00	0.31	29.40	97.00
456966	146.00	148.00	2.00	2	VO18177129 - Finalized	10/08/2018	0.001	0.120	0.70	38.60	6.52	1,250.0	0.003	216.00	1.52	49.00	105.00
456967	148.00	150.00	2.00	2	VO18177129 - Finalized	10/08/2018	0.001	0.100	4.10	32.20	7.30	2,620.0	0.003	131.00	3.35	44.60	103.00
456968	150.00	151.50	1.50	2	VO18177129 - Finalized	10/08/2018	0.001	0.110	0.40	27.80	10.90	8,690.0	0.003	70.00	0.74	29.50	95.00
456970	151.50	152.90	1.40	2	VO18177129 - Finalized	10/08/2018	0.001	0.040	0.10	30.70	13.25	6,190.0	0.003	112.00	1.02	35.40	100.00
456971	152.90	154.30	1.40	2	VO18177129 - Finalized	10/08/2018	0.001	0.040	2.30	23.10	9.76	7,900.0	0.003	40.00	1.35	27.40	37.00
456972	154.30	155.70	1.40	2	VO18177129 - Finalized	10/08/2018	0.001	0.020	0.30	13.10	14.40	9,100.0	0.003	68.00	0.68	13.10	23.00
457845	155.70	157.00	1.30	2	VO18173970 - Finalized	09/08/2018	0.044	0.050	1.30	6.50	16.00	13,600.0	0.003	60.00	0.65	9.00	17.00
457847	157.00	158.00	1.00	2	VO18173970 - Finalized	09/08/2018	0.007	0.030	2.20	11.60	16.60	12,500.0	0.003	47.00	0.31	8.40	12.00
457848	158.00	159.00	1.00	2	VO18173970 - Finalized	09/08/2018	0.006	0.020	3.60	5.80	14.75	10,900.0	0.003	39.00	0.25	7.00	10.00
457849	159.00	160.00	1.00	2	VO18173970 - Finalized	09/08/2018	0.006	0.030	2.20	6.60	17.30	12,150.0	0.003	43.00	0.21	7.70	10.00
457850	160.00	161.00	1.00	2	VO18173970 - Finalized	09/08/2018	0.022	0.040	11.30	6.80	20.00	14,050.0	0.003	53.00	0.63	10.80	18.00
457851	161.00	162.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.005	0.040	8.50	13.80	23.30	20,900.0	0.005	122.00	0.56	20.00	21.00
457852	162.00	163.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.001	0.030	14.40	7.10	19.80	14,900.0	0.003	47.00	0.45	7.10	13.00
457853	163.00	164.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.005	0.040	13.80	10.30	20.30	18,000.0	0.003	69.00	0.65	10.60	24.00
457854	164.00	165.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.002	0.040	0.80	12.80	20.30	15,900.0	0.012	55.00	0.50	9.90	41.00
457855	165.00	166.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.002	0.020	1.30	9.90	24.20	15,300.0	0.037	45.00	0.44	7.80	30.00
457856	166.00	167.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.002	0.020	1.30	3.10	21.80	13,200.0	0.032	61.00	0.64	12.90	42.00
457857	167.00	168.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.001	0.050	2.20	11.10	22.20	11,350.0	0.038	41.00	0.73	9.20	40.00
457858	168.00	169.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.002	0.030	1.50	6.40	24.60	16,200.0	0.039	58.00	0.57	12.30	40.00
457860	169.00	170.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.002	0.110	0.90	39.00	19.25	17,150.0	0.019	27.00	0.30	5.50	28.00
457861	170.00	171.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.002	0.290	1.70	86.90	23.90	17,150.0	0.023	39.00	0.64	9.40	32.00
457862	171.00	172.50	1.50	2	VO18177053 - Finalized	05/08/2018	0.002	0.160	1.40	70.00	21.00	15,850.0	0.015	34.00	0.51	6.50	22.00
457863	172.50	174.00	1.50	2	VO18177053 - Finalized	05/08/2018	0.004	0.400	1.30	199.00	20.60	3,000.0	0.025	17.00	0.48	13.50	15.00
457864	174.00	175.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.005	0.440	1.90	160.50	21.70	2,770.0	0.028	24.00	0.64	14.50	16.00
457865	175.00	176.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.009	0.400	0.80	193.00	21.50	3,500.0	0.033	19.00	0.73	12.50	14.00
457867	176.00	177.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.002	0.090	19.00	34.90	25.50	4,990.0	0.006	30.00	0.61	7.10	41.00
457868	177.00	178.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.003	0.090	3.30	30.80	26.30	4,240.0	0.012	46.00	0.32	5.90	41.00
457869	178.00	179.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.003	0.210	1.90	70.90	27.20	4,690.0	0.013	37.00	0.43	8.30	34.00
457870	179.00	180.00	1.00	2	VO18177053 - Finalized	05/08/2018	0.003	0.100	1.70	27.20	23.20	3,620.0	0.016	41.00	0.37	7.40	37.00
457871	180.00	181.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.005	0.120	5.80	53.60	23.90	4,880.0	0.019	38.00	0.54	5.80	32.00
457872	181.00	182.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.001	0.060	1.20	21.80	20.70	7,470.0	0.014	38.00	0.65	11.30	27.00
457873	182.00	183.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.001	0.060	0.70	11.70	16.15	6,190.0	0.016	27.00	0.45	6.20	19.00
457874	183.00	184.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.009	0.020	1.40	3.80	16.05	3,100.0	0.022	24.00	0.46	5.20	24.00
457875	184.00	185.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.001	0.020	5.30	5.20	16.35	3,030.0	0.025	26.00	0.37	5.20	27.00
457876	185.00	186.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.001	0.030	52.80	8.10	22.50	7,470.0	0.033	50.00	0.53	13.00	39.00

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457877	186.00	187.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.001	0.040	22.60	8.30	16.85	3,390.0	0.031	32.00	0.50	8.10	24.00
457878	187.00	188.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.001	0.030	6.10	6.70	19.90	3,530.0	0.020	42.00	0.47	10.50	23.00
457880	188.00	189.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.002	0.120	47.80	5.00	14.40	3,210.0	0.075	36.00	0.36	8.80	17.00
457881	189.00	190.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.005	0.050	2.50	11.00	22.40	7,220.0	0.015	65.00	0.41	12.80	27.00
457882	190.00	191.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.048	0.020	5.50	5.60	17.70	3,910.0	0.048	27.00	0.35	4.70	23.00
457883	191.00	192.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.135	0.030	9.70	17.20	19.55	7,960.0	0.018	41.00	0.59	18.20	20.00
457884	192.00	193.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.001	0.020	31.60	9.70	21.40	11,600.0	0.006	47.00	0.29	8.60	23.00
457885	193.00	194.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.001	0.020	10.90	6.20	19.10	16,500.0	0.003	55.00	0.46	9.40	21.00
457887	194.00	195.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.001	0.010	2.00	4.00	15.80	14,300.0	0.003	32.00	0.32	5.60	14.00
457888	195.00	196.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.001	0.040	1.10	5.90	17.20	14,000.0	0.003	31.00	0.32	6.40	13.00
457889	196.00	197.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.001	0.020	1.30	7.10	19.65	16,350.0	0.003	50.00	0.35	8.70	18.00
457890	197.00	198.00	1.00	2	VO18177073 - Finalized	06/08/2018	0.062	0.800	2.30	6.10	16.35	13,650.0	0.003	34.00	0.22	5.70	16.00
457891	198.00	199.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.010	2.60	4.70	17.50	15,050.0	0.003	34.00	0.32	7.50	15.00
457892	199.00	200.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.010	21.20	7.80	17.75	14,700.0	0.003	43.00	0.36	11.60	13.00
457893	200.00	201.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.020	2.20	9.70	19.85	15,900.0	0.003	54.00	0.35	8.30	17.00
457894	201.00	202.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.030	9.30	14.30	23.20	18,300.0	0.003	79.00	0.33	13.50	22.00
457895	202.00	203.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.060	29.80	12.90	21.00	16,100.0	0.003	60.00	0.35	11.20	19.00
457896	203.00	204.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.020	7.60	5.40	18.25	15,050.0	0.003	34.00	0.34	6.30	10.00
457897	204.00	205.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.270	2.30	15.10	17.00	12,750.0	0.003	72.00	0.36	20.30	21.00
457898	205.00	206.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.010	8.10	4.90	17.30	13,800.0	0.003	30.00	0.33	5.60	9.00
457900	206.00	207.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.030	27.90	6.90	19.55	14,650.0	0.003	44.00	0.42	8.30	10.00
403501	207.00	208.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.020	4.00	7.90	17.50	13,100.0	0.003	50.00	0.33	7.20	17.00
403502	208.00	209.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.020	3.90	9.60	18.45	14,100.0	0.003	62.00	0.50	8.60	32.00
403503	209.00	210.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.020	6.10	6.30	16.05	12,250.0	0.003	34.00	0.54	8.60	55.00
403504	210.00	211.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.040	5.80	10.70	18.50	14,500.0	0.003	55.00	0.71	10.50	43.00
403505	211.00	212.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.060	4.60	6.40	15.90	12,850.0	0.003	54.00	0.43	8.80	28.00
403507	212.00	213.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.030	9.30	9.60	23.50	21,300.0	0.005	87.00	0.57	9.60	34.00
403508	213.00	214.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.020	10.00	11.80	17.65	16,000.0	0.003	53.00	0.34	7.70	32.00
403509	214.00	215.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.003	0.020	21.20	10.70	18.40	17,700.0	0.003	75.00	0.36	12.30	32.00
403510	215.00	216.00	1.00	2	VO18177105 - Finalized	06/08/2018	0.001	0.030	11.60	9.30	12.60	11,550.0	0.003	36.00	1.02	10.50	28.00
403511	216.00	217.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.001	0.030	7.90	10.40	16.60	14,550.0	0.003	55.00	0.57	9.10	40.00
403512	217.00	218.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.001	0.040	14.60	19.50	21.80	19,400.0	0.005	82.00	0.56	12.50	73.00
403513	218.00	219.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.001	0.040	3.80	11.60	18.80	16,000.0	0.003	29.00	0.79	5.50	51.00
403514	219.00	220.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.001	0.070	3.70	61.50	15.85	11,200.0	0.009	27.00	1.18	7.10	67.00
403515	220.00	221.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.001	0.020	1.30	33.70	13.45	9,620.0	0.003	19.00	0.51	5.60	40.00
403516	221.00	222.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.001	0.010	0.50	14.20	16.45	12,600.0	0.003	24.00	0.51	4.70	30.00
403517	222.00	223.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.001	0.010	0.80	5.90	16.20	11,300.0	0.003	23.00	0.63	4.90	21.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
403518	223.00	224.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.001	0.020	0.50	4.40	18.55	13,000.0	0.003	32.00	0.56	5.40	23.00
403520	224.00	225.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.001	0.020	5.50	5.70	16.50	12,000.0	0.006	25.00	0.39	5.70	17.00
403521	225.00	226.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.001	0.010	1.40	2.00	15.80	11,900.0	0.003	24.00	0.28	4.00	15.00
403522	226.00	227.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.001	0.010	8.60	6.80	19.35	14,450.0	0.019	61.00	0.58	10.50	34.00
403523	227.00	228.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.001	0.030	1.30	6.70	21.00	17,550.0	0.016	55.00	0.65	8.70	38.00
403524	228.00	229.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.008	0.020	0.80	11.20	19.15	15,950.0	0.017	59.00	1.02	8.90	37.00
403525	229.00	230.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.020	0.010	1.90	8.40	12.65	12,250.0	0.012	28.00	0.48	4.70	22.00
403527	230.00	231.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.001	0.010	0.20	9.80	20.40	18,650.0	0.018	70.00	0.52	7.50	41.00
403528	231.00	232.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.032	0.130	1.60	14.30	14.75	14,650.0	0.031	35.00	0.35	7.30	25.00
403529	232.00	233.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.028	0.030	0.50	14.60	13.50	12,700.0	0.012	45.00	0.41	6.80	21.00
403530	233.00	234.00	1.00	2	VO18177109 - Finalized	11/08/2018	0.001	0.010	2.00	10.10	16.80	15,350.0	0.018	66.00	0.77	10.90	31.00
403531	234.00	235.00	1.00	2	VO18177120 - Finalized	11/08/2018	0.001	0.020	2.50	13.00	16.55	11,650.0	0.019	73.00	0.75	10.10	36.00
403532	235.00	236.00	1.00	2	VO18177120 - Finalized	11/08/2018	0.004	0.050	2.20	90.50	18.15	8,840.0	0.031	67.00	0.61	12.20	44.00
403533	236.00	237.00	1.00	2	VO18177120 - Finalized	11/08/2018	0.001	0.020	0.20	24.60	19.50	9,340.0	0.034	39.00	0.20	5.40	82.00
403534	237.00	238.00	1.00	2	VO18177120 - Finalized	11/08/2018	0.001	0.030	0.70	81.50	21.50	10,250.0	0.067	60.00	0.28	11.80	85.00
403535	238.00	239.00	1.00	2	VO18177120 - Finalized	11/08/2018	0.006	0.850	1.00	18.00	16.35	9,900.0	0.020	38.00	0.37	7.60	54.00
403536	239.00	240.00	1.00	2	VO18177120 - Finalized	11/08/2018	0.043	0.020	1.10	31.20	16.25	10,200.0	0.032	44.00	0.40	10.00	52.00
403537	240.00	241.00	1.00	2	VO18177120 - Finalized	11/08/2018	0.050	0.030	1.10	39.50	17.90	12,750.0	0.051	73.00	0.35	11.30	58.00
403538	241.00	242.00	1.00	2	VO18177120 - Finalized	11/08/2018	0.003	0.010	0.80	31.10	18.10	10,200.0	0.029	56.00	0.40	11.30	64.00
403540	242.00	243.00	1.00	2	VO18177120 - Finalized	11/08/2018	0.224	0.040	0.20	50.80	18.85	11,200.0	0.034	79.00	0.31	11.90	64.00
403541	243.00	244.00	1.00	2	VO18177120 - Finalized	11/08/2018	2.680	0.640	0.90	76.80	21.00	19,900.0	0.191	113.00	0.42	16.00	63.00
403542	244.00	245.00	1.00	2	VO18177120 - Finalized	11/08/2018	0.027	0.010	0.50	38.40	16.65	18,200.0	0.026	69.00	0.31	12.10	51.00
403543	245.00	246.00	1.00	2	VO18177120 - Finalized	11/08/2018	0.005	0.010	0.40	11.20	10.55	12,600.0	0.011	39.00	0.42	10.70	28.00
403544	246.00	247.00	1.00	2	VO18177120 - Finalized	11/08/2018	0.001	0.030	0.30	43.50	13.90	8,300.0	0.016	92.00	1.26	45.90	84.00
456973	247.00	249.00	2.00	2	VO18177129 - Finalized	10/08/2018	0.009	0.450	6.80	201.00	14.60	4,430.0	0.016	295.00	0.62	62.40	247.00
456974	249.00	251.00	2.00	2	VO18177129 - Finalized	10/08/2018	0.001	0.030	0.10	60.50	11.35	5,170.0	0.007	73.00	0.70	30.90	125.00
456975	251.00	253.00	2.00	2	VO18177129 - Finalized	10/08/2018	0.001	0.040	0.10	37.80	8.97	4,460.0	0.005	75.00	0.61	29.50	81.00
456977	253.00	255.00	2.00	2	VO18177129 - Finalized	10/08/2018	0.001	0.040	0.20	67.90	8.89	4,720.0	0.006	80.00	0.65	28.70	92.00
456978	255.00	257.00	2.00	2	VO18177129 - Finalized	10/08/2018	0.001	0.060	0.10	23.80	8.78	6,210.0	0.003	85.00	0.78	31.30	99.00
456979	257.00	259.00	2.00	2	VO18177129 - Finalized	10/08/2018	0.001	0.040	4.90	35.90	5.14	1,020.0	0.005	96.00	0.62	35.10	82.00
456980	259.00	261.00	2.00	2	VO18177129 - Finalized	10/08/2018	0.001	0.030	0.40	31.90	2.97	458.0	0.003	53.00	0.61	25.00	55.00
456981	261.00	263.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.001	0.010	0.10	46.30	6.03	715.0	0.003	87.00	0.66	39.40	77.00
456982	263.00	265.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.001	0.005	4.40	7.10	4.71	679.0	0.003	75.00	0.87	36.60	58.00
456983	265.00	267.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.001	0.010	1.20	3.40	5.57	1,020.0	0.003	93.00	0.59	30.80	48.00
456984	267.00	269.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.001	0.020	1.10	13.00	3.20	565.0	0.003	108.00	1.74	36.50	53.00
456985	269.00	271.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.001	0.020	1.70	11.70	4.12	1,180.0	0.003	145.00	4.59	41.50	59.00
456986	271.00	272.60	1.60	2	VO18184034 - Finalized	16/08/2018	0.001	0.060	4.80	46.80	5.12	730.0	0.009	170.00	3.97	63.90	72.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
456987	272.60	274.00	1.40	2	VO18184034 - Finalized	16/08/2018	0.001	0.110	0.10	124.00	9.24	1,430.0	0.023	361.00	0.27	77.00	96.00
456988	274.00	276.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.001	0.060	0.10	99.90	9.02	1,620.0	0.014	341.00	0.23	76.10	94.00
456990	276.00	278.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.001	0.010	0.20	25.50	4.33	619.0	0.007	97.00	0.33	42.90	45.00
456991	278.00	280.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.001	0.010	1.70	14.20	4.03	448.0	0.003	70.00	0.37	31.90	48.00
456992	280.00	282.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.001	0.005	0.40	20.00	10.75	1,710.0	0.008	26.00	0.83	1.50	111.00
456993	282.00	284.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.001	0.005	0.10	12.70	12.50	1,940.0	0.003	78.00	0.53	0.50	136.00
456994	284.00	286.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.001	0.010	0.10	14.00	13.65	2,280.0	0.003	465.00	0.44	0.30	139.00
456995	286.00	288.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.001	0.010	0.30	15.50	13.00	2,010.0	0.003	637.00	0.51	0.20	135.00
456997	288.00	290.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.001	0.010	0.80	24.00	14.05	1,840.0	0.006	989.00	0.37	0.60	129.00
456998	290.00	292.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.001	0.030	0.30	115.00	14.50	1,760.0	0.035	1 200.00	0.23	6.00	120.00



## Detailed Log Report

### Hole Number OSK-KAN-18-013

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-70.00 <b>Collar Az:</b> 350.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 374 483.00	<b>Length:</b>	91.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	July 19, 2018	<b>East:</b>	484 180.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	July 19, 2018	<b>Elev:</b>	171.40	<b>Casing Length:</b>	2.30 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	N <b>Making Water:</b> N
<b>Logger 1:</b>	Simon Hébert			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	200			<b>Claims Title:</b>	88975 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F11 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
2.30	72.30	<b>S9, Iron formation</b>	403545	2.30	3.00	0.70	S9C Ank; Chl-1 Ank-3; 1% Po DI PER 0.1% Po DI VN; 12% I1N QZ AK
			403547	3.00	4.00	1.00	S9C Ank; Chl-1 Ank-3; 1% Po DI PER 0.1% Po DI VN; 12% I1N QZ AK
<b>Comments:</b>			403548	4.00	5.00	1.00	S9C Ank; Chl-1 Ank-3; 1% Po DI PER 0.1% Po DI VN; 12% I1N QZ AK
			403549	5.00	6.00	1.00	S9C Ank; Chl-1 Ank-3; 1% Po DI PER 0.1% Po DI VN; 12% I1N QZ AK
			403550	6.00	7.00	1.00	S9C Ank; Chl-1 Ank-3; 1% Po DI PER 0.1% Po DI VN; 12% I1N QZ AK
			403551	7.00	8.00	1.00	S9C Ank; Chl-1 Ank-3; 1% Po DI PER 0.1% Po DI VN; 12% I1N QZ AK
			403552	8.00	9.00	1.00	S9C Ank; Chl-1 Ank-3; 1% Po DI PER 0.1% Po DI VN; 12% I1N QZ AK
			403553	9.00	10.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403554	10.00	11.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403555	11.00	12.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403556	12.00	13.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403557	13.00	14.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403558	14.00	15.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403560	15.00	16.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403561	16.00	17.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403562	17.00	18.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403563	18.00	19.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403564	19.00	20.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403565	20.00	21.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403567	21.00	22.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
		403568	22.00	23.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK	
		403569	23.00	24.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK	

From	To	Lithology	Sample	From	To	Length	Comments
			403570	24.00	25.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403571	25.00	26.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403572	26.00	27.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403573	27.00	28.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403574	28.00	29.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403575	29.00	30.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403576	30.00	31.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403577	31.00	32.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403578	32.00	33.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403580	33.00	34.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403581	34.00	35.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403582	35.00	36.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403583	36.00	37.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403584	37.00	38.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403585	38.00	39.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403587	39.00	40.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403588	40.00	41.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403589	41.00	42.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403590	42.00	43.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403591	43.00	44.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403592	44.00	45.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403593	45.00	46.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403594	46.00	47.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403595	47.00	48.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403596	48.00	49.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403597	49.00	50.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403598	50.00	51.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403600	51.00	52.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403601	52.00	53.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403602	53.00	54.00	1.00	S9C Sid; NO ALT; 0.5% Po DI PER 0.2% Py DI PER; 2% I1N QZ AK
			403603	54.00	55.00	1.00	S9C Ank; Chl-2 Ank-4; 1% Po DI PER; 25% I1N QZ AK
			403604	55.00	56.00	1.00	S9C Ank; Chl-2 Ank-4; 1% Po DI PER; 25% I1N QZ AK
			403605	56.00	57.00	1.00	S9C Ank; Chl-2 Ank-4; 1% Po DI PER; 25% I1N QZ AK
			403607	57.00	58.00	1.00	S9C Ank; Chl-2 Ank-4; 1% Po DI PER; 25% I1N QZ AK
			403608	58.00	59.00	1.00	S9C Ank; Chl-2 Ank-4; 1% Po DI PER; 25% I1N QZ AK
			403609	59.00	60.00	1.00	S9C Sid; NO ALT; 0.5% Po AL VN 0.2% Py DI PER
			403610	60.00	61.00	1.00	S9C Sid; NO ALT; 0.5% Po AL VN 0.2% Py DI PER
			403611	61.00	62.00	1.00	S9C Sid; NO ALT; 0.5% Po AL VN 0.2% Py DI PER
			403612	62.00	63.00	1.00	S9C Sid; NO ALT; 0.5% Po AL VN 0.2% Py DI PER
			403613	63.00	64.00	1.00	S9C Sid; NO ALT; 0.5% Po AL VN 0.2% Py DI PER
			403614	64.00	65.00	1.00	S9C Sid; NO ALT; 0.5% Po AL VN 0.2% Py DI PER

From	To	Lithology	Sample	From	To	Length	Comments
			403615	65.00	66.00	1.00	S9C Sid; NO ALT; 0.5% Po AL VN 0.2% Py DI PER
			403616	66.00	67.00	1.00	S9C Sid; NO ALT; 0.5% Po AL VN 0.2% Py DI PER
			403617	67.00	68.00	1.00	S9C Sid; NO ALT; 0.5% Po AL VN 0.2% Py DI PER
			403618	68.00	69.00	1.00	S9C Sid; NO ALT; 0.5% Po AL VN 0.2% Py DI PER
			403620	69.00	70.00	1.00	S9C Sid; NO ALT; 0.5% Po AL VN 0.2% Py DI PER
			403621	70.00	71.00	1.00	S9C Sid; Chl-1 Ank-1; 0.5% Po AL VN 0.2% Py DI PER; 7% I1N QZ AK
			403622	71.00	72.30	1.30	S9C Sid; Chl-1 Ank-1; 0.5% Po AL VN 0.2% Py DI PER; 7% I1N QZ AK
72.30	78.20	I3A, Gabbro	456999	72.30	74.00	1.70	I3A Chl-Cal; CC-4; 0.1% Po DI PER; 1% I1N CC
			457000	74.00	76.00	2.00	I3A Chl-Cal; CC-4; 0.1% Po DI PER; 1% I1N CC
		<b>Comments:</b>	457001	76.00	78.20	2.20	I3A Chl-Cal; CC-4; 0.1% Po DI PER; 1% I1N CC
78.20	84.00	S9, Iron formation	403623	78.20	79.00	0.80	S9; Sil-3 CC-4; 1% Po DI PER; 1% I1N QZ CC; BT 4
			403624	79.00	80.00	1.00	S9; Sil-3 CC-4; 1% Po DI PER; 1% I1N QZ CC; BT 4
		<b>Comments:</b>	403625	80.00	81.00	1.00	S9; Sil-3 CC-4; 1% Po DI PER; 1% I1N QZ CC; BT 4
			403627	81.00	82.00	1.00	S9; Sil-3 CC-4; 1% Po DI PER; 1% I1N QZ CC; BT 4
			403628	82.00	83.00	1.00	S9; Sil-3 CC-4; 1% Po DI PER; 1% I1N QZ CC; BT 4
			403629	83.00	84.00	1.00	S9; Sil-3 CC-4; 1% Po DI PER; 1% I1N QZ CC; BT 4
84.00	91.00	I3A, Gabbro	457002	84.00	86.00	2.00	I3A Chl-Cal; 0.1% Po DI PER; 4% I1N CC
			457003	86.00	88.00	2.00	I3A Chl-Cal; 0.1% Po DI PER; 4% I1N CC
		<b>Comments:</b>	457004	88.00	90.00	2.00	I3A Chl-Cal; 0.1% Po DI PER; 4% I1N CC
			457005	90.00	91.00	1.00	I3A Chl-Cal; 0.1% Po DI PER; 4% I1N CC

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
1.00	350.30	-58.80	FM	Test Non-OK	
4.00	348.40	-58.80	FM	Test Non-OK	
7.00	350.10	-58.70	FM	Test Non-OK	
10.00	345.60	-58.90	FM	Test OK-Accept	
13.00	344.20	-58.80	FM	Test Non-OK	
16.00	343.90	-58.80	FM	Test OK-Accept	
19.00	344.10	-58.80	FM	Test OK-Accept	
22.00	346.60	-58.80	FM	Test OK-Accept	
25.00	350.80	-59.20	FM	Test Non-OK	
28.00	345.60	-58.90	FM	Test OK-Accept	
31.00	343.80	-59.00	FM	Test Non-OK	
34.00	345.70	-58.90	FM	Test OK-Accept	
37.00	344.50	-59.00	FM	Test OK-Accept	
40.00	345.80	-58.80	FM	Test OK-Accept	
43.00	345.20	-58.50	FM	Test OK-Accept	
46.00	345.00	-58.80	FM	Test OK-Accept	
49.00	345.30	-58.80	FM	Test OK-Accept	
52.00	345.10	-58.80	FM	Test OK-Accept	
55.00	344.00	-58.70	FM	Test Non-OK	
58.00	344.90	-58.70	FM	Test OK-Accept	
61.00	342.80	-58.80	FM	Test OK-Accept	
64.00	345.10	-58.70	FM	Test Non-OK	
67.00	345.80	-58.70	FM	Test Non-OK	
70.00	344.10	-58.70	FM	Test OK-Accept	
73.00	344.40	-58.70	FM	Test OK-Accept	
76.00	344.30	-58.70	FM	Test OK-Accept	
79.00	344.10	-58.70	FM	Test OK-Accept	
82.00	341.40	-58.70	FM	Test Non-OK	
85.00	344.00	-59.00	FM	Test OK-Accept	
88.00	344.00	-58.60	FM	Test OK-Accept	
91.00	343.90	-58.60	FM	Test OK-Accept	



Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
2.30	9.00	S9	BD	HJ			S9C Ank	5.00	Silica	GL	VL	3	FG			DIF	Homogeneous Ankerite carbonate formation
9.00	54.00	S9	BD	HK	CKS		S9C Sid	5.00	Silica	GM	VM	2	MG			DIF	Heterogeneous siderite iron formation interbedded from 25m to 32 with silicate iron formation. The silicate iron formation have a crack-n-seal texture with amphibole surrounded by chlorite. Locale boudinated quartz veins
54.00	59.00	S9	BD	HJ			S9C Ank	6.00	Silica	GL	VL	3	FG			DIF	Homogeneous ankerite iron formation with moderate ankerite-chlorite alteration.
59.00	72.30	S9	BD	HK			S9C Sid	4.00	Silica	GM	VM	2	FG			VN	Heterogeneous siderite iron formation with veined lower contact. 7% Qz-Chl-Ank veins
72.30	78.20	I3A	FO	HK			I3A Chl-Cal			VM		1	MG			DIF	Heterogeneous unit with decimeter scale bands of fine grained and medium grained chlorite-calcite gabbro
78.20	84.00	S9	BT	FO	GY		S9	7.00	Silica	GL	VL	1	MG			DIF	Heterogeneous unit (can be a sheared gabbro), with brecciated texture. The clasts are elongated in S0 and strongly carbonated with pervasive calcite. Local pinkish mineral (k-feldspar?) in dismember chert clasts
84.00	91.00	I3A	HJ	FI	PI		I3A Chl-Cal			VM		1	FG				Homogeneous chlorite-calcite gabbro.

Mineralization Data																	
From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
2.30	9.00		Po	1.00	DI	PER		Po	0.10	DI	VN						
9.00	54.00		Po	0.50	DI	PER		Py	0.20	DI	PER						
54.00	59.00		Po	1.00	DI	PER											
59.00	72.30		Po	0.50	AL	VN		Py	0.20	DI	PER						
72.30	78.20		Po	0.10	DI	PER											
78.20	84.00		Po	1.00	DI	PER											
84.00	91.00		Po	0.10	DI	PER											

Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
2.30	9.00	Chl	1	VN	Ank	3					Quartz-chlorite-ankerine veins
9.00	54.00	NO ALT									
54.00	59.00	Chl	2	VN	Ank	4					Quartz-chlorite-ankerine veins
59.00	70.00	NO ALT									
70.00	72.30	Chl	1	VN	Ank	1	VN				
72.30	78.20	CC	4	DI							
78.20	84.00	Sil	3	CLT	CC	4	DI				

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
2.30	9.00	12.00		I1N	UNK	Vein >5cm	QZ	95.00	AK	2.00	CL	1.00								
9.00	54.00	2.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00										
54.00	59.00	25.00		I1N	UNK	Vein >5cm	QZ	95.00	AK	4.00	CL	1.00				Po	0.40			
70.00	72.30	7.00		I1N	UNK	Veinlet <5cm	QZ	96.00	AK	2.00	CL	2.00								
72.30	78.20	1.00		I1N	UNK	Veinlet <5cm	CC	100.00												
78.20	84.00	1.00		I1N	UNK	Veinlet <5cm	QZ	92.00	CC	7.00	CL	1.00								
84.00	91.00	4.00		I1N	UNK	Veinlet <5cm	CC	100.00												

Structure Data						
From	To	Structure Type	Structure Intensity	Structure Angle	Comments	
78.20	84.00	BT	4		Elongated clast of carbonated chert. The unit is strongly foliated and show reaction rims of calcite around amphibole-chlorite-sericite popyres	

**Oriented Structure Data**

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
10.40	S0		35.00	230.00	344.67	-58.83	-40.24	330.90	0.00	60.90			
15.70	S0		50.00										
20.40	S0		40.00	260.00	349.40	-59.07	-51.70	5.40	0.00	95.40			
26.10	S0		45.00	240.00	344.12	-58.98	-37.98	349.84	0.00	79.84			
26.60	S0		55.00	250.00	344.43	-58.97	-36.58	9.68	0.00	99.68			
27.55	VN		42.00	80.00	345.07	-58.93	-59.56	133.15	0.00	223.15			
29.60	S0		55.00	250.00	345.10	-58.95	-36.59	10.37	0.00	100.37			
34.60	S0		43.00	200.00	345.50	-58.65	-19.95	302.64	0.00	32.64			
37.90	S0		45.00	210.00	345.07	-58.70	-22.73	321.27	0.00	51.27			
43.10	VN		45.00	90.00	345.13	-58.80	-52.78	137.75	0.00	227.75			
45.55	S0		27.00	260.00	344.18	-58.72	-62.07	350.91	0.00	80.91			
49.60	S0		30.00										
51.60	S0		35.00										
57.90	VN		50.00										
59.40	S0		37.00										
66.20	S0		35.00										
68.50	S0		40.00										
73.40	S0		45.00	260.00	344.00	-58.67	-48.10	4.68	0.00	94.68			
73.50	VN		45.00	260.00	344.00	-58.67	-48.10	4.68	0.00	94.68			
77.40	S0		42.00	270.00	343.90	-58.60	-55.17	9.03	0.00	99.03			
79.50	S0		45.00	270.00	343.90	-58.60	-52.88	11.42	0.00	101.42			
83.40	S0		55.00	270.00	343.90	-58.60	-45.64	20.55	0.00	110.55			
84.80	S0		50.00	250.00	343.90	-58.60	-39.79	3.19	0.00	93.19			
86.25	VN		42.00	260.00	343.90	-58.60	-50.33	1.95	0.00	91.95			

**Sample Data - ASSAY**

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
403545	2.30	3.00	0.70	2	VO18230512 - Finalized	26/09/2018	0.124	0.010	0.50	5.00	14.70	5,420.0	0.003	15.00	0.35	2.80	15.00
403547	3.00	4.00	1.00	2	VO18230512 - Finalized	26/09/2018	0.058	0.010	0.30	7.10	14.10	5,920.0	0.003	22.00	0.52	2.80	21.00
403548	4.00	5.00	1.00	2	VO18230512 - Finalized	26/09/2018	0.281	0.010	1.90	6.80	13.55	5,360.0	0.006	20.00	0.48	2.40	18.00
403549	5.00	6.00	1.00	2	VO18230512 - Finalized	26/09/2018	0.042	0.060	0.30	4.30	15.40	5,960.0	0.003	15.00	0.46	2.40	11.00
403550	6.00	7.00	1.00	2	VO18230512 - Finalized	26/09/2018	0.007	0.010	0.30	4.10	15.65	6,470.0	0.003	13.00	0.38	2.50	11.00
403551	7.00	8.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.531	0.030	0.80	4.50	14.45	5,900.0	0.011	8.00	0.21	2.00	10.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
403552	8.00	9.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.091	0.010	0.40	3.90	15.30	6,710.0	0.003	17.00	0.45	3.90	8.00
403553	9.00	10.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.004	0.030	0.40	4.40	16.45	7,060.0	0.003	22.00	1.23	5.80	18.00
403554	10.00	11.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.001	0.020	0.40	1.70	13.50	5,780.0	0.005	10.00	0.45	3.50	8.00
403555	11.00	12.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.001	0.010	0.30	2.50	13.85	5,990.0	0.003	11.00	0.42	28.80	6.00
403556	12.00	13.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.001	0.030	0.40	1.90	15.35	6,670.0	0.003	18.00	0.36	5.40	8.00
403557	13.00	14.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.001	0.020	0.40	1.40	12.75	6,060.0	0.003	14.00	0.35	2.60	5.00
403558	14.00	15.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.001	0.070	0.80	2.10	14.90	6,840.0	0.003	18.00	0.52	8.00	7.00
403560	15.00	16.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.001	0.020	0.60	3.10	13.90	6,880.0	0.003	14.00	0.42	3.90	5.00
403561	16.00	17.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.003	0.020	2.80	2.10	12.75	6,480.0	0.006	13.00	0.44	3.50	5.00
403562	17.00	18.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.001	0.010	0.10	2.20	14.60	7,220.0	0.003	17.00	0.45	4.70	6.00
403563	18.00	19.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.001	0.010	2.00	1.60	14.60	6,150.0	0.003	14.00	0.73	3.00	5.00
403564	19.00	20.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.001	0.020	46.90	3.30	13.50	6,850.0	0.005	20.00	0.78	5.70	11.00
403565	20.00	21.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.001	0.020	0.70	4.20	16.65	8,790.0	0.005	21.00	0.97	7.50	11.00
403567	21.00	22.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.046	0.030	1.20	9.00	14.00	6,620.0	0.003	17.00	0.61	5.00	13.00
403568	22.00	23.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.003	0.030	1.70	2.70	11.90	6,030.0	0.003	10.00	0.36	4.00	5.00
403569	23.00	24.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.002	0.010	3.00	5.10	13.25	7,540.0	0.003	16.00	0.31	5.20	7.00
403570	24.00	25.00	1.00	2	VO18184045 - Finalized	16/08/2018	0.001	0.030	0.80	4.20	14.90	9,840.0	0.003	28.00	0.46	8.00	13.00
403571	25.00	26.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.010	0.30	3.30	16.65	11,150.0	0.003	22.00	0.35	6.40	12.00
403572	26.00	27.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.005	1.30	2.30	13.05	8,310.0	0.003	15.00	0.44	4.70	10.00
403573	27.00	28.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.010	0.60	3.10	14.05	10,500.0	0.005	23.00	0.40	5.60	12.00
403574	28.00	29.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.010	0.10	2.60	14.00	8,790.0	0.003	19.00	0.35	3.70	12.00
403575	29.00	30.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.005	0.70	2.50	13.05	8,860.0	0.003	21.00	0.29	4.50	15.00
403576	30.00	31.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.010	0.10	2.50	12.40	9,170.0	0.003	23.00	0.35	4.90	20.00
403577	31.00	32.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.050	0.30	3.10	11.15	8,070.0	0.003	18.00	0.25	4.80	17.00
403578	32.00	33.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.010	1.10	2.50	12.35	8,030.0	0.003	13.00	0.27	4.80	13.00
403580	33.00	34.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.020	0.40	1.70	11.35	7,320.0	0.007	13.00	0.18	3.70	15.00
403581	34.00	35.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.010	0.10	0.60	11.80	7,640.0	0.005	19.00	0.18	3.20	14.00
403582	35.00	36.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.010	0.50	1.40	11.30	7,390.0	0.003	13.00	0.19	3.60	9.00
403583	36.00	37.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.005	0.50	1.60	10.40	8,670.0	0.006	22.00	0.26	6.00	14.00
403584	37.00	38.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.018	0.010	1.70	2.60	10.40	8,800.0	0.006	29.00	0.31	7.60	17.00
403585	38.00	39.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.005	0.40	2.00	9.62	7,890.0	0.003	30.00	0.25	6.00	14.00
403587	39.00	40.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.020	0.40	8.60	11.95	9,440.0	0.003	28.00	1.00	8.50	14.00
403588	40.00	41.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.010	0.50	5.00	12.15	9,710.0	0.008	20.00	0.51	5.60	8.00
403589	41.00	42.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.010	0.20	5.10	13.55	9,800.0	0.003	24.00	0.51	6.60	8.00
403590	42.00	43.00	1.00	2	VO18184041 - Finalized	16/08/2018	0.001	0.010	0.50	2.50	11.35	8,220.0	0.003	17.00	0.38	4.10	7.00
403591	43.00	44.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.020	0.30	5.70	11.35	7,730.0	0.003	25.00	1.12	6.30	13.00
403592	44.00	45.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.010	0.40	2.60	10.60	7,180.0	0.003	19.00	1.23	3.80	7.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
403593	45.00	46.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.010	0.20	3.60	12.40	8,340.0	0.003	22.00	0.80	4.40	10.00
403594	46.00	47.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.010	0.70	3.80	11.50	7,690.0	0.003	23.00	0.94	4.80	18.00
403595	47.00	48.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.010	0.40	3.30	12.15	9,390.0	0.003	29.00	0.67	4.10	20.00
403596	48.00	49.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.050	0.20	7.90	15.65	10,600.0	0.003	40.00	0.75	8.00	24.00
403597	49.00	50.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.170	0.040	0.50	19.90	24.10	14,100.0	0.011	119.00	1.70	17.40	44.00
403598	50.00	51.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.020	1.50	5.50	14.10	9,380.0	0.003	36.00	0.62	7.50	20.00
403600	51.00	52.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.020	1.20	9.00	17.75	13,700.0	0.003	53.00	0.71	9.00	26.00
403601	52.00	53.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.003	0.140	0.70	13.30	18.30	16,150.0	0.003	58.00	1.00	7.90	27.00
403602	53.00	54.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.030	1.80	16.40	13.80	12,900.0	0.006	45.00	1.85	6.80	19.00
403603	54.00	55.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.050	8.20	20.00	10.50	8,250.0	0.012	78.00	3.91	14.60	24.00
403604	55.00	56.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.020	3.30	7.30	11.55	6,040.0	0.010	51.00	1.42	8.40	20.00
403605	56.00	57.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.010	1.00	0.50	7.84	5,230.0	0.008	31.00	0.49	4.10	15.00
403607	57.00	58.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.010	1.60	1.50	10.00	7,590.0	0.003	26.00	0.45	3.70	11.00
403608	58.00	59.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.020	1.10	10.00	11.25	8,900.0	0.008	67.00	1.48	9.30	23.00
403609	59.00	60.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.040	0.40	7.90	18.20	16,350.0	0.003	61.00	0.80	9.50	21.00
403610	60.00	61.00	1.00	2	VO18184015 - Finalized	16/08/2018	0.001	0.010	2.30	4.90	20.40	16,400.0	0.003	38.00	0.34	6.20	16.00
403611	61.00	62.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.020	3.60	9.30	21.00	16,600.0	0.003	54.00	0.29	9.00	18.00
403612	62.00	63.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.010	1.30	4.20	16.35	13,600.0	0.003	35.00	0.22	5.10	12.00
403613	63.00	64.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.010	0.70	4.40	18.30	15,050.0	0.003	48.00	0.29	7.40	14.00
403614	64.00	65.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.050	1.20	28.80	19.00	16,250.0	0.003	44.00	0.97	13.50	14.00
403615	65.00	66.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.030	0.50	23.00	21.30	17,800.0	0.003	55.00	0.63	11.00	16.00
403616	66.00	67.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.010	1.00	5.60	18.65	16,600.0	0.003	48.00	0.35	7.50	12.00
403617	67.00	68.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.010	1.20	10.80	17.50	15,600.0	0.003	58.00	0.32	7.40	13.00
403618	68.00	69.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.030	0.60	11.90	18.85	17,200.0	0.003	68.00	0.30	12.00	15.00
403620	69.00	70.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.090	19.40	9.20	14.35	12,700.0	0.003	44.00	0.34	25.00	13.00
403621	70.00	71.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.010	1.10	9.50	12.60	7,290.0	0.003	40.00	0.14	3.30	14.00
403622	71.00	72.30	1.30	2	VO18184030 - Finalized	16/08/2018	0.001	0.010	1.90	62.70	15.85	10,500.0	0.003	54.00	0.19	7.40	26.00
456999	72.30	74.00	1.70	2	VO18184034 - Finalized	16/08/2018	0.001	0.060	90.10	75.60	10.20	1,630.0	0.008	455.00	0.31	111.00	95.00
457000	74.00	76.00	2.00	2	VO18184034 - Finalized	16/08/2018	0.002	0.100	39.20	129.50	8.84	1,480.0	0.006	340.00	0.20	82.20	85.00
457001	76.00	78.20	2.20	2	VO18184062 - Finalized	16/08/2018	0.003	0.090	29.90	150.00	8.90	2,240.0	0.009	316.00	0.20	76.00	77.00
403623	78.20	79.00	0.80	2	VO18184030 - Finalized	16/08/2018	0.001	0.020	2.80	23.60	11.40	8,190.0	0.003	80.00	1.25	17.20	16.00
403624	79.00	80.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.010	5.70	21.90	12.05	9,280.0	0.007	69.00	0.75	13.70	13.00
403625	80.00	81.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.010	29.10	12.30	8.37	5,210.0	0.007	55.00	0.83	15.10	9.00
403627	81.00	82.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.010	8.30	12.20	13.65	6,710.0	0.007	89.00	1.26	15.70	11.00
403628	82.00	83.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.005	1.30	21.40	7.77	5,920.0	0.003	9.00	0.84	5.10	11.00
403629	83.00	84.00	1.00	2	VO18184030 - Finalized	16/08/2018	0.001	0.005	1.70	8.40	7.87	2,980.0	0.006	18.00	0.50	8.60	11.00
457002	84.00	86.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.030	0.10	67.60	10.15	2,350.0	0.022	201.00	0.18	53.10	37.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457003	86.00	88.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.030	0.30	72.90	8.49	1,300.0	0.011	349.00	0.11	88.10	61.00
457004	88.00	90.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.020	0.40	80.90	8.49	1,380.0	0.020	334.00	0.09	73.90	69.00
457005	90.00	91.00	1.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.010	0.10	23.20	8.57	1,540.0	0.003	262.00	0.10	70.50	76.00



## Detailed Log Report Hole Number OSK-KAN-18-014

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-55.00 <b>Collar Az:</b> 225.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 369 896.00	<b>Length:</b>	124.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	July 22, 2018	<b>East:</b>	485 035.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	July 24, 2018	<b>Elev:</b>	131.10	<b>Casing Length:</b>	2.60 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	N <b>Making Water:</b> N
<b>Logger 1:</b>	Simon Hebert			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	150			<b>Claims Title:</b>	2099210 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
2.60	33.15	I3A, Gabbro	457006	2.60	4.00	1.40	I3A; 0.1% I1N QZ CC
			457007	4.00	6.00	2.00	I3A; CC-3; 0.1% I1N QZ CC
<b>Comments:</b>			457008	6.00	8.00	2.00	I3A; CC-3; 0.1% I1N QZ CC
			457010	8.00	10.00	2.00	I3A; CC-3; 0.1% I1N QZ CC
			457011	10.00	12.00	2.00	I3A; CC-3; 0.1% I1N QZ CC
			457012	12.00	14.00	2.00	I3A; CC-3; 0.1% I1N QZ CC
			457013	14.00	16.00	2.00	I3A; CC-3; 0.1% I1N QZ CC
			457014	16.00	18.00	2.00	I3A; CC-3; 0.1% I1N QZ CC
			457015	18.00	20.00	2.00	I3A; CC-3; 0.1% I1N QZ CC
			457017	20.00	22.00	2.00	I3A; CC-3; 0.1% I1N QZ CC
			457018	22.00	24.00	2.00	I3A; CC-3; 0.1% I1N QZ CC
			457019	24.00	26.00	2.00	I3A; CC-3; 0.1% I1N QZ CC
			457020	26.00	28.00	2.00	; CC-3
			457021	28.00	30.00	2.00	I3A QZ; CC-3; 0.1% I1N QZ CC
			457022	30.00	32.00	2.00	I3A QZ; CC-3; 0.1% I1N QZ CC
			457023	32.00	33.15	1.15	I3A QZ; CC-3; 0.1% I1N QZ CC

From	To	Lithology	Sample	From	To	Length	Comments
33.15	48.60	S6g, Grey Shale	457024	33.15	35.00	1.85	S6g; NO ALT; 0.5% I1N QZ AK
			457025	35.00	37.00	2.00	S6g; NO ALT; 0.5% I1N QZ AK
			457026	37.00	39.00	2.00	S6g; NO ALT; 0.5% I1N QZ AK
			457027	39.00	41.00	2.00	
			457028	41.00	43.00	2.00	
			457030	43.00	45.00	2.00	S6g GP; NO ALT; 2% I1N QZ AK
			457031	45.00	47.00	2.00	S6g GP; NO ALT; 2% I1N QZ AK
			457032	47.00	48.60	1.60	; 1% Po DI PER
48.60	54.20	S9, Iron formation	403630	48.60	49.50	0.90	S9C; Ank-1 Chl-5 Ser-3; 2% Po DI PER 1% Po AL VN; 40% I1N QZ CL
			403631	49.50	50.50	1.00	S9C; Ank-1 Chl-5 Ser-3; 2% Po DI PER 1% Po AL VN; 40% I1N QZ CL
			403632	50.50	51.50	1.00	S9C; 2% Po DI PER 1% Po AL VN
			403633	51.50	52.50	1.00	S9C; Ank-1 Chl-1 Ser-3; 2% Po DI PER 1% Po AL VN; 4% I1N QZ CL
			403634	52.50	53.50	1.00	S9C; Ank-1 Chl-1 Ser-3; 2% Po DI PER 1% Po AL VN; 4% I1N QZ CL
			403635	53.50	54.20	0.70	S9C; Ank-1 Chl-1 Ser-3; 2% Po DI PER 1% Po AL VN; 4% I1N QZ CL
54.20	60.45	S6, Mudrock	457033	54.20	56.00	1.80	S6 GP; 5% Po AL BD 8% Py SUB BD; 10% I1N QZ AK
			457034	56.00	57.50	1.50	S6 GP; 5% Po AL BD 8% Py SUB BD; 10% I1N QZ AK
			457035	57.50	59.00	1.50	S6 GP; 5% Po AL BD 8% Py SUB BD; 10% I1N QZ AK
			457037	59.00	60.45	1.45	S6 GP; 5% Po AL BD 8% Py SUB BD; 10% I1N QZ AK
60.45	81.30	S9, Iron formation	403636	60.50	61.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403637	61.50	62.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403638	62.50	63.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403640	63.50	64.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403641	64.50	65.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403642	65.50	66.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403643	66.50	67.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403644	67.50	68.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403645	68.50	69.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403647	69.50	70.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403648	70.50	71.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK; BX 4
			403649	71.50	72.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK; BX 4
			403650	72.50	73.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403651	73.50	74.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403652	74.50	75.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403653	75.50	76.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403654	76.50	77.60	1.10	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK
			403655	77.60	78.50	0.90	I1N; 0.1% Py DI VN; 80% I1N QZ AK
403656	78.50	79.50	1.00				
403657	79.50	80.50	1.00	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK			
403658	80.50	81.30	0.80	S9C Sid; 0.1% Po DI VN; 1% I1N QZ AK			



From	To	Lithology	Sample	From	To	Length	Comments	
81.30	95.70	<b>S6, Mudrock</b>	457038	81.30	83.00	1.70	S6; 10% Py AL BD 1% Po AL BD; 3% I1N QZ	
			457039	83.00	85.00	2.00	S6; 10% Py AL BD 1% Po AL BD; 3% I1N QZ	
			<b>Comments:</b>	457040	85.00	87.00	2.00	S6; 10% Py AL BD 1% Po AL BD; 3% I1N QZ
			457041	87.00	89.00	2.00	S6; 10% Py AL BD 1% Po AL BD; 3% I1N QZ	
			457042	89.00	91.00	2.00	S6; 10% Py AL BD 1% Po AL BD; 3% I1N QZ	
			457043	91.00	93.00	2.00	S6; 10% Py AL BD 1% Po AL BD; 3% I1N QZ	
			457044	93.00	94.50	1.50	S6; 10% Py AL BD 1% Po AL BD; 3% I1N QZ	
			457045	94.50	95.70	1.20	S6; 10% Py AL BD 1% Po AL BD; 3% I1N QZ	
95.70	106.20	<b>S9, Iron formation</b>	403660	95.70	97.00	1.30	S9C Sid; 0.1% Po DI VN; 4% I1N QZ AK	
			403661	97.00	98.00	1.00	S9C Sid; 0.1% Po DI VN; 4% I1N QZ AK	
			<b>Comments:</b>	403662	98.00	99.00	1.00	S9C Sid; 0.1% Po DI VN; 4% I1N QZ AK
			403663	99.00	100.00	1.00	S9C Sid; 0.1% Po DI VN; 4% I1N QZ AK	
			403664	100.00	101.00	1.00	S9C Sid; 0.1% Po DI VN; 4% I1N QZ AK	
			403665	101.00	102.00	1.00	S9C Sid; 0.1% Po DI VN; 4% I1N QZ AK	
			403667	102.00	103.00	1.00	S9C Sid; 0.1% Po DI VN; 4% I1N QZ AK	
			403668	103.00	104.00	1.00	S9C Sid; 0.1% Po DI VN; 4% I1N QZ AK	
			403669	104.00	105.00	1.00	S9C Sid; 0.1% Po DI VN; 4% I1N QZ AK	
			403670	105.00	106.20	1.20	S9C Sid; 0.1% Po DI VN; 4% I1N QZ AK	
106.20	107.90	<b>S6, Mudrock</b>	457046	106.20	107.90	1.70	S6 GP; 7% Py SUB BD 2% Po AL BD; 1% I1N QZ	
			<b>Comments:</b>					
107.90	124.00	<b>S9, Iron formation</b>	403671	107.90	109.00	1.10	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK	
			403672	109.00	110.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK	
			<b>Comments:</b>	403673	110.00	111.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK
			403674	111.00	112.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK	
			403675	112.00	113.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK	
			403676	113.00	114.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK	
			403677	114.00	115.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK	
			403678	115.00	116.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK	
			403680	116.00	117.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK	
			403681	117.00	118.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK	
			403682	118.00	119.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK	
			403683	119.00	120.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK	
			403684	120.00	121.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK	
			403685	121.00	122.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK	
			403687	122.00	123.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK	
403688	123.00	124.00	1.00	S9C Sid; 0.1% Po DI VN; 3% I1N QZ AK				

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
1.00	205.40	-52.50	FM	Test Non-OK	
4.00	205.30	-52.50	FM	Test Non-OK	
7.00	206.40	-52.40	FM	Test Non-OK	
10.00	212.20	-52.50	FM	Test Non-OK	
13.00	217.00	-52.50	FM	Test Non-OK	
16.00	222.00	-52.40	FM	Test OK-Accept	
19.00	222.90	-52.40	FM	Test OK-Accept	
22.00	221.50	-52.40	FM	Test Non-OK	
25.00	223.30	-52.40	FM	Test OK-Accept	
28.00	223.60	-52.30	FM	Test OK-Accept	
31.00	224.50	-52.20	FM	Test Non-OK	
34.00	222.70	-52.10	FM	Test OK-Accept	
37.00	223.70	-52.10	FM	Test OK-Accept	
40.00	223.40	-52.00	FM	Test OK-Accept	
43.00	221.40	-51.90	FM	Test Non-OK	
46.00	218.80	-51.90	FM	Test Non-OK	
49.00	222.40	-51.70	FM	Test Non-OK	
52.00	215.40	-51.70	FM	Test Non-OK	
55.00	205.90	-51.70	FM	Test Non-OK	
58.00	212.00	-51.60	FM	Test Non-OK	
61.00	222.40	-51.60	FM	Test Non-OK	
64.00	223.80	-51.60	FM	Test OK-Accept	
67.00	198.80	-56.50	FM	Test Non-OK	
70.00	222.60	-51.60	FM	Test OK-Accept	
73.00	223.40	-51.60	FM	Test OK-Accept	
76.00	223.80	-51.60	FM	Test OK-Accept	
79.00	224.60	-51.50	FM	Test OK-Accept	
82.00	216.80	-51.50	FM	Test Non-OK	
85.00	225.00	-51.50	FM	Test OK-Accept	
88.00	225.10	-51.50	FM	Test OK-Accept	
91.00	225.20	-51.40	FM	Test OK-Accept	
94.00	225.10	-51.40	FM	Test OK-Accept	
97.00	212.50	-51.40	FM	Test Non-OK	
100.00	223.30	-51.40	FM	Test Non-OK	
103.00	224.80	-51.30	FM	Test OK-Accept	
106.00	223.70	-51.30	FM	Test OK-Accept	
109.00	217.90	-51.30	FM	Test Non-OK	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
112.00	223.30	-51.30	FM	Test Non-OK	
115.00	223.80	-51.30	FM	Test OK-Accept	
118.00	222.60	-51.20	FM	Test Non-OK	
121.00	224.80	-51.00	FM	Test OK-Accept	
124.00	224.70	-50.80	FM	Test OK-Accept	

Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
2.60	26.75	I3A	HJ	FO			I3A			VM	GL	1	MG				DIF
26.75	33.15	I3A	HJ	FO			I3A QZ			VM	VM	2	MG				SHP The abundance of the blue quartz vary from 5 to 10% and the unit can be identified as a diorite. The occurrence of quartz in the unit could give use a polarity inverse for the sequence.
33.15	39.50	S6g	HJ	LA			S6g			GM		1	FG				SHP
39.50	42.60	S6g	HJ	LA	PQ		S6g			VM		1	MG				SHP Homoeogenous sheared gabbro with strong chlorite-ankerite and local centimeter scale cluster.
42.60	47.30	S6g	HJ	LA			S6g GP			GM		1	FG				SHP Heterogeneous interval with intercalated grey shale and graphitic grey shale.
47.30	48.60	S6g	HJ	LA	PQ		S6g			VM		1	MG				SHP Homoeogenous sheared gabbro with chlorite-ankerite porphyroblasts.
48.60	54.20	S9	HJ	MA	SD		S9C			GL	VL	3	FG				SHP The unit is bleached and with the saccaroidal texture it look like a chert or sandstone.
54.20	60.45	S6	LA	HK	BD		S6 GP			BK		1	Aph				DIF The lower and lower contact have 10-20 cm of mixed S9-S6
60.45	77.60	S9	HK	BD	BX		S9C Sid	6.00	Silica	GM	VL	2	FG				SHP The chert beds are localy breached
77.60	78.55	S9	BD	MA			I1N			WH	VM	3	MG				SHP Milky white quartz veins breached the iron formation.
78.55	81.30	S9	HJ	BD			S9C Sid			GM		2	FG				SHP
81.30	95.70	S6	LA	HJ			S6			BK		1	Aph				
95.70	106.20	S9	HJ	BD	BX		S9C Sid			GM		2	FG				
106.20	107.90	S6	HJ	LA			S6 GP			BK		1	Aph				
107.90	124.00	S9	BD	HK	BX		S9C Sid	3.00	Silica	GM		2	FG				SHP Local breached chert. From 121m to 124, fews centimeter scale of black mudstone.

Mineralization Data																	
From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
39.50	42.60		Po	1.00	DI	PER											
47.30	48.60		Po	1.00	DI	PER											
48.60	54.20		Po	2.00	DI	PER		Po	1.00	AL	VN						
54.20	60.45		Po	5.00	AL	BD		Py	8.00	SUB	BD						
60.45	77.60		Po	0.10	DI	VN											
77.60	78.55		Py	0.10	DI	VN											
78.55	81.30		Po	0.10	DI	VN											
81.30	95.70		Py	10.00	AL	BD		Po	1.00	AL	BD						
95.70	106.20		Po	0.10	DI	VN											
106.20	107.90		Py	7.00	SUB	BD		Po	2.00	AL	BD						
107.90	124.00		Po	0.10	DI	VN											

Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
2.63	33.15	CC	3	DI							
33.15	39.50	NO ALT									
39.50	42.60	CC	3	DI	Ank	4	SP	Ser	5	DI	
42.60	47.30	NO ALT									
47.30	48.60	Ank	3	SP	Ser	5	DI				
48.60	50.90	Ank	1	VN	Chl	5	VN	Ser	3	VN	
50.90	54.20	Ank	1	VN	Chl	1	VN	Ser	3	DI	

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
2.60	26.75	0.10		I1N	UNK	Veinlet <5cm	QZ	98.00	CC	2.00										
26.75	33.15	0.10		I1N	UNK	Veinlet <5cm	QZ	98.00	CC	2.00										
33.15	39.50	0.50		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	5.00						Po	1.00			
42.60	47.30	2.00		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	5.00						Po	1.00			
48.20	50.90	40.00		I1N	UNK	Vein >5cm	QZ	94.00	CL	3.00	SR	3.00				Po	1.00			
50.90	54.20	4.00		I1N	UNK	Vein >5cm	QZ	99.00	CL	0.10						Po	0.10			
54.20	60.45	10.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	0.10						Po	0.10			Fault zone?
60.45	77.60	1.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	0.10						Po	0.10			
77.60	78.55	80.00		I1N	UNK	Vein >5cm	QZ	97.00	AK	2.00	CL	1.00				Py	0.10			Breached interval
78.55	81.30	1.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00						Po	0.10			
81.30	95.70	3.00		I1N	UNK	Veinlet <5cm	QZ	100.00								Po	2.00			
95.70	106.20	4.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00						Po	0.10			
106.20	107.90	1.00		I1N	UNK	Veinlet <5cm	QZ	100.00												
107.90	124.00	3.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00						Po	0.10			

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
39.50	42.60	FO	5		Sheared.
47.30	48.60	FO			Sheared
70.30	72.50	BX	4		Sub angular chert clasts

Oriented Structure Data													
Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
22.50	S0		55.00										
28.10	VN		47.00	80.00	223.00	-52.12	-59.70	4.07	0.00	94.07			
31.10	S0		65.00	60.00	223.65	-52.08	-54.19	340.48	0.00	70.48			
33.90	VN		55.00	50.00	223.07	-51.98	-65.27	342.00	0.00	72.00			
36.85	S0		68.00	80.00	220.53	-51.90	-46.41	341.15	0.00	71.15			
42.65	S0		55.00										
44.70	S0		56.00										
48.80	S0		65.00	30.00	213.73	-51.60	-61.12	317.70	0.00	47.70			
62.10	S0		60.00	75.00	223.60	-51.60	-53.25	350.67	0.00	80.67			
66.85	S0		40.00	80.00	222.00	-51.50	-65.15	8.24	0.00	98.24			
73.00	S0		75.00	10.00	225.07	-51.50	-53.33	318.28	0.00	48.28			
78.50	VN		58.00										
82.00	S0		65.00	40.00	216.10	-51.40	-59.58	324.46	0.00	54.46			
85.90	AxialPlane		55.00										
85.95	S0		55.00										
91.50	S0		45.00	70.00	218.80	-51.30	-66.38	355.29	0.00	85.29			
91.70			80.00	70.00	219.70	-51.30	-42.99	323.54	0.00	53.54	70.00	FAXIS	
91.70	AxialPlane		85.00	70.00	219.70	-51.30	-40.64	316.92	0.00	46.92			
94.00	S0		65.00	0.00	223.38	-51.30	-63.70	313.38	0.00	43.38			
94.30			68.00	20.00	223.47	-51.30	-59.77	321.99	0.00	51.99	70.00	FAXIS	
94.30	AxialPlane		68.00	20.00	223.47	-51.30	-59.77	321.99	0.00	51.99			
101.10	S0		65.00	50.00	224.78	-50.97	-57.80	337.28	0.00	67.28			
104.90	S0		60.00	100.00	224.70	-50.80	-43.45	0.43	0.00	90.43			
106.70	S0		70.00	100.00	224.70	-50.80	-40.03	346.28	0.00	76.28			
110.70	S0		70.00	70.00	224.70	-50.80	-49.14	339.85	0.00	69.85			
112.65	S0		70.00	110.00	224.70	-50.80	-36.66	347.26	0.00	77.26			
114.10	S0		68.00	100.00	224.70	-50.80	-40.57	349.26	0.00	79.26			
120.60	S0		70.00										
124.00	S0		75.00										

Sample Data - ASSAY																	
Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm	Ag ppm	As ppm	Cu ppm	Fe pct	Mn ppm	Hg ppm	V ppm	Mo ppm	Ni ppm	Zn ppm
457006	2.60	4.00	1.40	2	VO18184062 - Finalized	16/08/2018	0.001	0.030	0.30	94.80	8.35	1,260.0	0.018	187.00	0.16	502.00	75.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457007	4.00	6.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.020	1.10	82.30	8.17	1,210.0	0.018	179.00	0.17	492.00	72.00
457008	6.00	8.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.040	1.10	113.00	8.49	1,280.0	0.016	176.00	0.13	523.00	77.00
457010	8.00	10.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.030	5.60	112.50	8.47	1,270.0	0.022	190.00	0.12	494.00	75.00
457011	10.00	12.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.040	11.40	126.50	9.27	1,400.0	0.020	186.00	0.17	517.00	85.00
457012	12.00	14.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.030	9.90	119.00	8.16	1,230.0	0.024	196.00	0.14	392.00	72.00
457013	14.00	16.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.050	0.90	215.00	7.96	1,220.0	0.030	296.00	0.14	238.00	70.00
457014	16.00	18.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.010	0.30	93.50	9.33	1,340.0	0.026	453.00	0.16	151.50	79.00
457015	18.00	20.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.020	0.90	96.40	7.99	1,300.0	0.015	321.00	0.21	109.50	76.00
457017	20.00	22.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.030	2.80	127.00	7.55	1,260.0	0.045	279.00	0.24	146.00	70.00
457018	22.00	24.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.040	0.40	98.20	8.70	1,340.0	0.037	404.00	0.24	74.90	73.00
457019	24.00	26.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.040	7.80	104.00	7.64	1,200.0	0.023	286.00	0.18	162.50	68.00
457020	26.00	28.00	2.00	2	VO18184062 - Finalized	16/08/2018	0.001	0.090	4.60	144.00	8.17	1,240.0	0.020	304.00	1.65	151.00	83.00
457021	28.00	30.00	2.00	2	VO18189333 - Finalized	29/08/2018	0.002	0.060	6.50	89.10	7.71	1,300.0	0.007	297.00	0.23	118.50	69.00
457022	30.00	32.00	2.00	2	VO18189333 - Finalized	29/08/2018	0.003	0.060	15.30	84.50	8.35	1,310.0	0.018	263.00	0.19	199.00	79.00
457023	32.00	33.15	1.15	2	VO18189333 - Finalized	29/08/2018	0.001	0.080	16.70	117.00	9.32	1,530.0	0.021	365.00	0.29	88.50	92.00
457024	33.15	35.00	1.85	2	VO18189333 - Finalized	29/08/2018	0.001	0.010	8.70	12.30	4.00	585.0	0.021	73.00	0.26	36.40	46.00
457025	35.00	37.00	2.00	2	VO18189333 - Finalized	29/08/2018	0.001	0.005	14.40	3.90	3.18	422.0	0.003	71.00	0.18	35.30	31.00
457026	37.00	39.00	2.00	2	VO18189333 - Finalized	29/08/2018	0.001	0.040	13.20	11.70	3.50	420.0	0.003	70.00	0.70	37.70	55.00
457027	39.00	41.00	2.00	2	VO18189333 - Finalized	29/08/2018	0.001	0.040	6.10	12.90	3.59	716.0	0.012	72.00	0.24	34.10	39.00
457028	41.00	43.00	2.00	2	VO18189333 - Finalized	29/08/2018	0.001	0.060	9.30	28.10	4.05	392.0	0.015	71.00	0.43	36.40	84.00
457030	43.00	45.00	2.00	2	VO18189333 - Finalized	29/08/2018	0.002	0.220	4.30	73.00	6.20	811.0	0.025	100.00	1.63	46.00	77.00
457031	45.00	47.00	2.00	2	VO18189333 - Finalized	29/08/2018	0.002	0.150	1.60	71.00	5.76	641.0	0.027	137.00	1.61	46.40	72.00
457032	47.00	48.60	1.60	2	VO18189333 - Finalized	29/08/2018	0.001	0.060	4.80	23.60	10.75	6,030.0	0.021	81.00	1.02	28.70	134.00
403630	48.60	49.50	0.90	2	VO18184030 - Finalized	16/08/2018	0.011	0.070	11.50	32.40	18.30	10,900.0	0.003	48.00	0.61	10.50	49.00
403631	49.50	50.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.157	0.320	3.80	27.80	14.40	5,390.0	0.019	40.00	0.77	13.00	49.00
403632	50.50	51.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.283	0.120	11.50	18.00	21.30	4,370.0	0.012	92.00	3.53	20.10	82.00
403633	51.50	52.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.098	0.120	8.00	28.60	27.40	4,120.0	0.003	18.00	0.58	6.10	34.00
403634	52.50	53.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.032	0.340	0.90	16.90	24.10	4,630.0	0.003	16.00	0.39	4.30	37.00
403635	53.50	54.20	0.70	2	VO18189323 - Finalized	22/08/2018	0.005	0.340	2.40	104.50	24.50	8,390.0	0.003	26.00	1.20	26.90	90.00
457033	54.20	56.00	1.80	2	VO18189333 - Finalized	29/08/2018	0.022	1.640	42.50	274.00	18.00	777.0	0.430	317.00	35.70	142.50	1 440.00
457034	56.00	57.50	1.50	2	VO18189333 - Finalized	29/08/2018	0.012	0.530	15.70	94.20	6.53	760.0	0.285	115.00	18.50	67.80	556.00
457035	57.50	59.00	1.50	2	VO18189333 - Finalized	29/08/2018	0.027	0.760	54.60	74.50	7.82	416.0	0.452	135.00	13.65	79.30	696.00
457037	59.00	60.45	1.45	2	VO18189333 - Finalized	29/08/2018	0.021	0.870	106.50	92.80	9.74	573.0	0.435	219.00	26.20	102.00	754.00
403636	60.50	61.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.002	0.120	4.00	34.70	20.00	11,000.0	0.007	41.00	1.24	19.30	43.00
403637	61.50	62.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.003	0.090	3.60	13.00	24.20	15,450.0	0.003	70.00	0.50	11.10	20.00
403638	62.50	63.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.001	0.080	3.50	11.00	20.60	12,750.0	0.003	52.00	0.41	8.30	111.00
403640	63.50	64.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.001	0.060	14.80	10.20	20.20	11,750.0	0.003	50.00	0.54	11.50	11.00



Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
403641	64.50	65.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.012	0.080	5.20	6.30	21.70	11,850.0	0.003	54.00	0.71	9.20	12.00
403642	65.50	66.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.001	0.040	4.80	4.40	20.50	11,150.0	0.003	31.00	0.74	7.10	10.00
403643	66.50	67.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.001	0.060	14.40	3.40	16.15	9,110.0	0.003	28.00	0.73	6.40	6.00
403644	67.50	68.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.001	0.070	7.30	4.50	16.80	8,550.0	0.003	30.00	0.91	7.70	10.00
403645	68.50	69.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.001	0.050	0.70	2.80	12.65	5,900.0	0.003	22.00	0.83	5.50	18.00
403647	69.50	70.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.001	0.030	1.10	2.90	7.05	2,020.0	0.003	6.00	0.51	3.30	95.00
403648	70.50	71.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.001	0.030	2.20	1.20	5.63	1,700.0	0.003	4.00	0.38	2.20	63.00
403649	71.50	72.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.001	0.040	1.90	1.40	5.42	1,650.0	0.003	6.00	0.42	2.40	8.00
403650	72.50	73.50	1.00	2	VO18189323 - Finalized	22/08/2018	0.001	0.030	7.20	1.40	8.82	2,640.0	0.003	9.00	0.33	3.00	17.00
403651	73.50	74.50	1.00	2	VO18189326 - Finalized	22/08/2018	0.001	0.070	3.90	4.70	13.55	6,210.0	0.003	27.00	1.13	9.20	30.00
403652	74.50	75.50	1.00	2	VO18189326 - Finalized	22/08/2018	0.001	0.190	12.00	8.60	14.80	7,970.0	0.005	34.00	1.33	15.20	32.00
403653	75.50	76.50	1.00	2	VO18189326 - Finalized	22/08/2018	0.002	0.250	8.60	9.20	11.90	7,130.0	0.037	38.00	1.68	14.70	1 010.00
403654	76.50	77.60	1.10	2	VO18189326 - Finalized	22/08/2018	0.001	0.080	7.50	7.00	19.20	10,300.0	0.003	30.00	0.76	7.90	24.00
403655	77.60	78.50	0.90	2	VO18189326 - Finalized	22/08/2018	0.001	0.040	3.80	5.40	17.80	10,550.0	0.003	41.00	0.61	8.30	11.00
403656	78.50	79.50	1.00	2	VO18189326 - Finalized	22/08/2018	0.001	0.100	30.00	8.70	19.75	17,600.0	0.015	69.00	0.68	12.70	261.00
403657	79.50	80.50	1.00	2	VO18189326 - Finalized	22/08/2018	0.001	0.070	16.50	6.60	18.30	12,500.0	0.009	59.00	0.76	11.00	244.00
403658	80.50	81.30	0.80	2	VO18189326 - Finalized	22/08/2018	0.001	0.230	4.60	20.90	14.35	10,050.0	0.029	63.00	4.54	17.40	517.00
457038	81.30	83.00	1.70	2	VO18189333 - Finalized	29/08/2018	0.012	0.820	162.00	190.50	11.15	346.0	0.579	384.00	23.30	149.00	898.00
457039	83.00	85.00	2.00	2	VO18189333 - Finalized	29/08/2018	0.047	2.560	324.00	511.00	11.35	543.0	1.710	1 820.00	130.00	379.00	2 150.00
457040	85.00	87.00	2.00	2	VO18189333 - Finalized	29/08/2018	0.055	2.270	322.00	243.00	15.95	128.0	1.750	1 360.00	88.80	309.00	1 350.00
457041	87.00	89.00	2.00	2	VO18189334 - Finalized	29/08/2018	0.020	0.990	193.00	197.00	13.00	330.0	0.689	254.00	25.40	153.00	941.00
457042	89.00	91.00	2.00	2	VO18189334 - Finalized	29/08/2018	0.025	1.040	176.00	212.00	11.70	349.0	0.781	595.00	48.00	181.00	1 070.00
457043	91.00	93.00	2.00	2	VO18189334 - Finalized	29/08/2018	0.047	1.700	230.00	272.00	11.65	432.0	1.385	1 580.00	148.50	349.00	2 100.00
457044	93.00	94.50	1.50	2	VO18189334 - Finalized	29/08/2018	0.023	0.990	194.50	159.00	13.05	555.0	0.667	432.00	40.20	151.50	659.00
457045	94.50	95.70	1.20	2	VO18189334 - Finalized	29/08/2018	0.001	0.340	24.90	44.10	6.01	1,160.0	0.094	120.00	14.65	37.80	451.00
403660	95.70	97.00	1.30	2	VO18189326 - Finalized	22/08/2018	0.001	0.200	9.20	16.40	10.10	1,780.0	0.008	17.00	3.38	18.50	27.00
403661	97.00	98.00	1.00	2	VO18189326 - Finalized	22/08/2018	0.001	0.040	5.50	2.50	13.15	2,100.0	0.003	6.00	0.60	4.30	10.00
403662	98.00	99.00	1.00	2	VO18189326 - Finalized	22/08/2018	0.001	0.310	4.90	2.30	10.90	2,050.0	0.003	12.00	0.38	4.30	8.00
403663	99.00	100.00	1.00	2	VO18189326 - Finalized	22/08/2018	0.001	0.030	13.40	1.70	11.90	2,690.0	0.003	17.00	0.67	9.80	8.00
403664	100.00	101.00	1.00	2	VO18189326 - Finalized	22/08/2018	0.001	0.010	4.20	1.80	10.15	3,080.0	0.003	12.00	0.39	4.70	4.00
403665	101.00	102.00	1.00	2	VO18189326 - Finalized	22/08/2018	0.001	0.020	4.40	3.60	16.20	7,080.0	0.003	28.00	0.52	6.00	7.00
403667	102.00	103.00	1.00	2	VO18189326 - Finalized	22/08/2018	0.001	0.020	2.90	2.90	13.15	5,700.0	0.003	24.00	0.46	5.30	6.00
403668	103.00	104.00	1.00	2	VO18189326 - Finalized	22/08/2018	0.001	0.010	0.50	2.30	13.15	6,330.0	0.003	17.00	0.40	3.40	6.00
403669	104.00	105.00	1.00	2	VO18189326 - Finalized	22/08/2018	0.001	0.010	4.20	3.60	14.40	6,190.0	0.003	26.00	0.79	7.40	7.00
403670	105.00	106.20	1.20	2	VO18189326 - Finalized	22/08/2018	0.005	0.030	14.20	5.10	12.20	5,250.0	0.009	26.00	1.13	6.40	17.00
457046	106.20	107.90	1.70	2	VO18189334 - Finalized	29/08/2018	0.009	0.240	20.50	50.50	6.21	1,240.0	0.173	80.00	12.30	30.70	273.00
403671	107.90	109.00	1.10	2	VO18189327 - Finalized	22/08/2018	0.001	0.020	5.60	5.60	10.45	2,000.0	0.011	12.00	0.74	10.10	10.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
403672	109.00	110.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.001	0.020	1.60	1.40	13.80	1,980.0	0.009	4.00	0.17	2.90	5.00
403673	110.00	111.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.001	0.010	3.90	2.40	14.20	2,290.0	0.009	17.00	0.51	4.60	4.00
403674	111.00	112.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.001	0.010	5.20	1.70	9.21	2,380.0	0.012	12.00	0.45	4.00	3.00
403675	112.00	113.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.001	0.040	6.10	3.80	13.85	5,740.0	0.009	19.00	0.50	5.50	5.00
403676	113.00	114.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.001	0.030	2.80	4.00	21.00	9,670.0	0.003	30.00	0.56	6.00	7.00
403677	114.00	115.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.001	0.020	4.50	6.10	20.80	13,450.0	0.005	34.00	0.58	8.30	9.00
403678	115.00	116.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.001	0.040	8.30	3.00	10.65	3,700.0	0.015	13.00	0.60	7.10	7.00
403680	116.00	117.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.001	0.020	2.20	3.80	15.35	7,020.0	0.003	26.00	0.56	6.80	7.00
403681	117.00	118.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.001	0.040	2.30	4.40	20.10	10,100.0	0.003	33.00	0.53	7.50	8.00
403682	118.00	119.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.005	0.080	4.30	6.30	20.50	12,300.0	0.013	37.00	0.35	7.80	10.00
403683	119.00	120.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.001	0.080	2.30	11.00	20.40	12,350.0	0.096	52.00	0.40	10.60	18.00
403684	120.00	121.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.001	0.040	2.20	10.90	22.40	13,200.0	0.090	45.00	0.31	8.00	9.00
403685	121.00	122.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.001	0.140	2.50	5.60	21.10	15,100.0	0.058	70.00	0.51	12.50	13.00
403687	122.00	123.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.001	0.040	39.50	9.50	21.90	15,600.0	0.097	87.00	0.69	14.90	15.00
403688	123.00	124.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.001	0.030	2.40	13.70	20.70	14,850.0	0.110	76.00	1.54	19.90	21.00



## Detailed Log Report

### Hole Number OSK-KAN-18-015

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-60.00 <b>Collar Az:</b> 250.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 369 100.00	<b>Length:</b>	118.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	July 25, 2018	<b>East:</b>	486 075.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	July 27, 2018	<b>Elev:</b>	167.00	<b>Casing Length:</b>	8.00 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	N <b>Making Water:</b> N
<b>Logger 1:</b>	Simon Hebert			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	150			<b>Claims Title:</b>	2099196 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	8.00	OVB, Overburden					
<b>Comments:</b>							
8.00	9.00	S6, Mudrock	403689	8.00	9.00	1.00	S6; 6% Py DI PER 1% Po DI PER
<b>Comments:</b>							
9.00	10.80	I3A, Gabbro	403690	9.00	10.00	1.00	I3A; 0.1% Po DI VN; 0.1% I1N QZ
			403691	10.00	10.80	0.80	I3A; 0.1% Po DI VN; 0.1% I1N QZ
<b>Comments:</b>							

From	To	Lithology	Sample	From	To	Length	Comments
10.80	22.20	I3A, Gabbro	403692	10.80	12.00	1.20	I1N; 0.1% Po DI VN; 100% I1N QZ CL
			403693	12.00	13.00	1.00	I1N; 0.1% Po DI VN; 100% I1N QZ CL
			403694	13.00	14.00	1.00	I1N; 0.1% Po DI VN; 100% I1N QZ CL
			403695	14.00	15.00	1.00	I1N; 0.1% Po DI VN; 100% I1N QZ CL
			403696	15.00	16.00	1.00	I1N; 0.1% Po DI VN; 100% I1N QZ CL
			403697	16.00	17.00	1.00	I1N; 0.1% Po DI VN; 100% I1N QZ CL
			403698	17.00	18.00	1.00	I1N; 0.1% Po DI VN; 100% I1N QZ CL
			403700	18.00	19.00	1.00	I1N; 0.1% Po DI VN; 100% I1N QZ CL
			403701	19.00	20.00	1.00	I1N; 0.1% Po DI VN; 100% I1N QZ CL
			403702	20.00	21.00	1.00	I1N; 0.1% Po DI VN; 100% I1N QZ CL
			403703	21.00	22.20	1.20	I1N; 0.1% Po DI VN; 100% I1N QZ CL
22.20	25.00	S9, Iron formation	403704	22.20	23.00	0.80	S9C Ank; Ank-5 Chl-3 Chl-2; 2% Po DI VN 0.1% Po DI PER; 5% I1N QZ AK 50°
			403705	23.00	24.00	1.00	S9C Ank; Ank-5 Chl-3 Chl-2; 2% Po DI VN 0.1% Po DI PER; 5% I1N QZ AK 50°
			403707	24.00	25.00	1.00	S9C Ank; Ank-5 Chl-3 Chl-2; 2% Po DI VN 0.1% Po DI PER; 5% I1N QZ AK 50°
25.00	26.20	S6, Mudrock	403708	25.00	26.20	1.20	S6; NO ALT; 2% Po DI VN 0.1% Po DI PER; 1% I1N QZ

Comments:

Comments:

Comments:

From	To	Lithology	Sample	From	To	Length	Comments
26.20	63.90	S9, Iron formation	403709	26.20	27.00	0.80	S9C Ank; Ank-5 Chl-3 Chl-1; 2% Po DI VN 0.1% Po DI PER; 15% I1N QZ AK 55°
			403710	27.00	28.00	1.00	S9C Ank; Ank-5 Chl-3 Chl-1; 2% Po DI VN 0.1% Po DI PER; 15% I1N QZ AK 55°
<b>Comments:</b>			403711	28.00	29.00	1.00	S9C Ank; Ank-5 Chl-3 Chl-1; 2% Po DI VN 0.1% Po DI PER; 15% I1N QZ AK 55°
			403712	29.00	30.00	1.00	S9C Ank; Ank-5 Chl-3 Chl-1; 5% Po DI VN 0.1% Vg DI PER; 100% I1N QZ AK 55°
			403713	30.00	31.00	1.00	S9C Ank; Ank-5 Chl-3 Chl-1; 2% Po DI VN 0.5% Po ; 15% I1N QZ AK
			403714	31.00	32.00	1.00	S9C Ank; Ank-5 Chl-3 Chl-1; 2% Po DI VN 0.5% Po ; 15% I1N QZ AK
			403715	32.00	33.00	1.00	S9C Ank; Ank-5 Chl-3 Chl-1; 2% Po DI VN 0.5% Po ; 15% I1N QZ AK
			403716	33.00	34.00	1.00	S9C Ank; Ank-5 Chl-3 Chl-1; 2% Po DI VN 0.5% Po ; 15% I1N QZ AK
			403717	34.00	35.00	1.00	S9C Ank; Ank-5 Chl-3 Chl-1; 2% Po DI VN 0.5% Po ; 15% I1N QZ AK
			403718	35.00	36.00	1.00	S9C Ank; Ank-5 Chl-3 Chl-1; 2% Po DI VN 0.5% Po ; 15% I1N QZ AK
			403720	36.00	37.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403721	37.00	38.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403722	38.00	39.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403723	39.00	40.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403724	40.00	41.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403725	41.00	42.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403727	42.00	43.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403728	43.00	44.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403729	44.00	45.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403730	45.00	46.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403731	46.00	47.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403732	47.00	48.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403733	48.00	49.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403734	49.00	50.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403735	50.00	51.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403736	51.00	52.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403737	52.00	53.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403738	53.00	54.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403740	54.00	55.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403741	55.00	56.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403742	56.00	57.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403743	57.00	58.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403744	58.00	59.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403745	59.00	60.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403747	60.00	61.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.5% Po ; 5% I1N QZ AK
			403748	61.00	62.00	1.00	S9C Ank; Ser-1 Chl-2 Ank-2; 2% Po DI VN 0.5% Po ; 30% I1N QZ AK
			403749	62.00	63.00	1.00	S9C Ank; Ser-1 Chl-2 Ank-2; 2% Po DI VN 0.5% Po ; 30% I1N QZ AK
			403750	63.00	63.90	0.90	S9C Ank; Ser-1 Chl-2 Ank-2; 2% Po DI VN 0.5% Po ; 30% I1N QZ AK

From	To	Lithology	Sample	From	To	Length	Comments
63.90	73.00	I3A, Gabbro	457047	63.90	66.00	2.10	I3A Chl-Cal; Ank-1 Chl-1; 0.5% Po DI VN; 5% I1N QZ AK
			457048	66.00	68.00	2.00	I3A Chl-Cal; Ank-1 Chl-1; 0.5% Po DI VN; 5% I1N QZ AK
<b>Comments:</b>			457050	68.00	70.00	2.00	I3A Chl-Cal; Ank-1 Chl-1; 0.5% Po DI VN; 5% I1N QZ AK
			457051	70.00	71.30	1.30	I3A Chl-Cal; Ank-1 Chl-1; 0.5% Po DI VN; 5% I1N QZ AK
			457052	71.30	73.00	1.70	I3A Chl-Cal; Ank-1; 0.5% Po DI VN; 10% I1N QZ AK
73.00	118.00	S6g, Grey Shale	457053	73.00	75.00	2.00	S6g GP; Chl-1 Ank-1; 0.1% Po DI VN; 30% I1N QZ AK
			457054	75.00	77.00	2.00	S6g GP; Chl-1 Ank-1; 0.1% Po DI VN; 30% I1N QZ AK
<b>Comments:</b>			457055	77.00	79.00	2.00	S6g GP; Ank-1; 0.1% Po DI VN; 4% I1N QZ AK
			457057	79.00	81.00	2.00	S6g GP; Ank-1; 0.1% Po DI VN; 4% I1N QZ AK
			457058	81.00	83.00	2.00	S6g GP; Ank-1; 0.1% Po DI VN; 4% I1N QZ AK
			457059	83.00	85.00	2.00	S6g GP; Ank-1; 0.1% Po DI VN; 4% I1N QZ AK
			457060	85.00	87.00	2.00	S6g GP; Ank-1; 0.1% Po DI VN; 4% I1N QZ AK
			457061	87.00	89.00	2.00	S6g GP; Ank-1; 0.1% Po DI VN; 4% I1N QZ AK
			457062	89.00	91.00	2.00	S6g GP; Ank-1; 0.1% Po DI VN; 4% I1N QZ AK
			457063	91.00	93.00	2.00	S6g GP; Chl-1 Ank-1; 0.1% Po DI VN; 30% I1N QZ CL
			457064	93.00	95.00	2.00	S6g GP; Ank-1; 0.1% Po DI VN; 4% I1N QZ AK
			457065	95.00	96.80	1.80	S6g GP; Ank-1; 0.1% Po DI VN; 4% I1N QZ AK
			457066	96.80	98.80	2.00	S6g GP; Chl-1 Ser-3 Sil-2; 0.1% Po DI VN 0.1% Gn DI VN; 20% I1N QZ CL
			457067	98.80	101.00	2.20	S6g GP; Ank-1; 4% I1N QZ AK
			457068	101.00	103.00	2.00	S6g GP; Ank-1; 4% I1N QZ AK
			457070	103.00	105.00	2.00	S6g GP; Ank-1; 4% I1N QZ AK
			457071	105.00	107.00	2.00	S6g GP; Ank-1; 4% I1N QZ AK
			457072	107.00	109.00	2.00	S6g GP; Ank-1; 4% I1N QZ AK
			457073	109.00	111.00	2.00	S6g GP; Ank-1; 4% I1N QZ AK
			457074	111.00	113.00	2.00	S6g GP; Ank-1; 4% I1N QZ AK
			457075	113.00	115.00	2.00	S6g GP; Ank-1
			457077	115.00	117.00	2.00	S6g GP; Ank-1; 35% I1N QZ CL
			457078	117.00	118.00	1.00	S6g GP; Ank-1; 1% I1N QZ QZ

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
1.00	343.90	-58.90	FM	Test Non-OK	
4.00	343.80	-58.90	FM	Test Non-OK	
7.00	343.90	-58.80	FM	Test Non-OK	
10.00	343.90	-59.10	FM	Test Non-OK	
13.00	264.20	-59.00	FM	Test Non-OK	
16.00	250.10	-58.80	FM	Test OK-Accept	
19.00	250.80	-58.60	FM	Test OK-Accept	
22.00	250.80	-58.60	FM	Test OK-Accept	
25.00	250.00	-58.50	FM	Test OK-Accept	
28.00	250.90	-58.50	FM	Test OK-Accept	
31.00	251.00	-58.50	FM	Test OK-Accept	
34.00	250.20	-58.60	FM	Test OK-Accept	
37.00	250.50	-58.70	FM	Test OK-Accept	
40.00	250.50	-58.70	FM	Test OK-Accept	
43.00	251.30	-58.70	FM	Test OK-Accept	
46.00	251.00	-58.60	FM	Test OK-Accept	
49.00	250.50	-58.80	FM	Test OK-Accept	
52.00	251.30	-58.60	FM	Test OK-Accept	
55.00	251.50	-58.80	FM	Test OK-Accept	
58.00	250.70	-58.90	FM	Test Non-OK	
61.00	252.10	-58.80	FM	Test OK-Accept	
64.00	251.80	-58.70	FM	Test OK-Accept	
67.00	252.00	-58.70	FM	Test OK-Accept	
70.00	252.00	-58.60	FM	Test OK-Accept	
73.00	252.10	-58.70	FM	Test OK-Accept	
76.00	252.10	-58.80	FM	Test OK-Accept	
79.00	252.20	-58.80	FM	Test OK-Accept	
82.00	251.60	-58.80	FM	Test OK-Accept	
85.00	251.00	-58.90	FM	Test OK-Accept	
88.00	251.40	-58.90	FM	Test OK-Accept	
91.00	251.30	-58.90	FM	Test OK-Accept	
94.00	251.40	-58.90	FM	Test OK-Accept	
97.00	251.40	-58.90	FM	Test OK-Accept	
100.00	251.50	-58.90	FM	Test OK-Accept	
103.00	251.70	-58.80	FM	Test OK-Accept	
106.00	251.60	-58.70	FM	Test OK-Accept	
109.00	251.70	-58.70	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
112.00	251.80	-58.80	FM	Test OK-Accept	
115.00	252.20	-58.60	FM	Test OK-Accept	
118.00	254.40	-58.70	FM	Test Non-OK	

**Lithology Data**

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments	
8.00	9.00	S6	LA	HJ			S6			BK		1	Aph			NA	This first unit could be a boulder in the casing...	
9.00	10.80	I3A	HJ	FO			I3A			VM		2	MG				SHP	
10.80	22.20	I3A	IU	BX	HJ	HG	I1N			VD	WH	2	MG				VN	Quartz-chlorite veins
22.20	25.00	S9	BD	HJ			S9C Ank	1.00	Silica	GM	VM	3	FG					SHP
25.00	26.20	S6	LA	HJ	FI		S6			BK		1	Aph					Well folded interval with symmetric folding.
26.20	36.00	S9	BD	HJ			S9C Ank	3.00	Oxyde	GM	VM	3	FG				DIF	Homogeneous unit characterised by 15% of quartz-ankerite-chlorite-pyrrhotite.
36.00	63.90	S9	BD	HJ			S9C Ank			GM	VM	3	FG		60.00			SHP
63.90	73.00	I3A	HJ	FO			I3A Chl-Cal			VM		1	FG		70.00			Heterogeneous interval with decimeter scale interlayered gabbro and grey shale.
73.00	118.00	S6g	HJ	LA			S6g GP			BK		1	Aph					

**Mineralization Data**

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
8.00	9.00	Py		6.00	DI	PER		Po	1.00	DI	PER						
9.00	10.80	Po		0.10	DI	VN											
10.80	22.20	Po		0.10	DI	VN											
22.20	29.75	Po		2.00	DI	VN		Po	0.10	DI	PER						
29.75	29.85	Po		5.00	DI	VN		Vg	0.10	DI	PER						
29.85	63.90	Po		2.00	DI	VN		Po	0.50								
63.90	73.00	Po		0.50	DI	VN											
73.00	98.30	Po		0.10	DI	VN											
98.30	98.50	Po		0.10	DI	VN		Gn	0.10	DI	VN						



Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
22.20	25.00	Ank	5	VN	Chl	3	VN	Chl	2	DI	
25.00	26.20	NO ALT									
26.20	36.00	Ank	5	VN	Chl	3	VN	Chl	1	FF	
36.00	61.00	Ank	5	VN	Chl	3	VN				
61.00	63.90	Ser	1	DI	Chl	2	VN	Ank	2	VN	
63.90	71.30	Ank	1	VN	Chl	1	VN				
71.30	73.00	Ank	1	VN							
73.00	77.00	Chl	1	VN	Ank	1	VN				
77.00	91.00	Ank	1	VN							
91.00	93.00	Chl	1	VN	Ank	1	VN				
93.00	96.80	Ank	1	VN							
96.80	98.80	Chl	1	VN	Ser	3	PEN	Sil	2	PEN	
98.80	118.00	Ank	1	VN							

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
9.00	10.80	0.10		I1N	UNK	Veinlet <5cm	QZ	100.00								Po	0.10			
10.80	22.20	100.00		I1N	UNK	Vein >5cm	QZ	50.00	CL	50.00			DSM	VUG		Po	0.10			Chloritised dismember gabbro unit?
22.20	25.00	5.00		I1N	UNK	Vein >5cm	QZ	70.00	AK	25.00	CL	5.00			50.00	Po	2.00			
25.00	26.20	1.00		I1N	UNK	Veinlet <5cm	QZ	100.00												
26.20	29.75	15.00		I1N	UNK	Vein >5cm	QZ	70.00	AK	25.00	CL	5.00			55.00	Po	2.00			
29.75	29.85	100.00		I1N	UNK	Vein >5cm	QZ	70.00	AK	27.00	CL	3.00			55.00	Po	2.00	Vg	0.10	The VG are observed in Ankeriteand pyrrhotite in the vein salvages.
29.85	36.00	15.00		I1N	UNK	Vein >5cm	QZ	70.00	AK	25.00	CL	5.00				Po	2.00			
36.00	61.00	5.00		I1N	UNK	Veinlet <5cm	QZ	85.00	AK	14.00	CL	1.00				Po	2.00			
61.00	63.90	30.00		I1N	UNK	Vein >5cm	QZ	95.00	AK	3.00	CL	2.00				Po	0.10			
63.90	71.30	5.00		I1N	UNK	Veinlet <5cm	QZ	94.00	AK	3.00	CC	2.00								
71.30	73.00	10.00		I1N	UNK	Vein >5cm	QZ	98.00	AK	2.00	AK					Py	0.50			
73.00	77.00	30.00		I1N	UNK	Vein >5cm	QZ	95.00	AK	3.00										
77.00	91.00	4.00		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	1.50	AK									
91.00	93.00	30.00		I1N	UNK	Vein >5cm	QZ	92.00	CL	2.00	AK	0.65				Po	0.10			
93.00	96.80	4.00		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	2.00										
96.80	98.80	20.00		I1N	UNK	Vein >5cm	QZ	98.00	CL	2.00						Gn	0.10	Po	0.20	
98.80	114.00	4.00		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	2.00										
114.00	117.00	35.00		I1N	UNK	Vein >5cm	QZ	97.00	CL	2.50	AK	0.50				Po	0.50			
117.00	118.00	1.00		I1N	UNK	Veinlet <5cm	QZ	99.00	QZ	1.00	AK									

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments

## Oriented Structure Data

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
12.20	VN		50.00										
17.30	VN		45.00										
22.30	S0		50.00										
25.20	S0		45.00										
26.50	S0		50.00										
29.50	VN		55.00	130.00	250.30	-58.63	-26.96	56.05	0.00	146.05			
32.30	S0		55.00										
36.60	S0		60.00										
40.85	VN		45.00										
46.40	S0		50.00	60.00	251.37	-58.82	-60.73	21.02	0.00	111.02			
50.10	VN		40.00										
54.30	S0		50.00	130.00	251.87	-58.70	-29.63	66.65	0.00	156.65			
56.60	S0		70.00	150.00	252.00	-58.67	-16.93	17.97	0.00	107.97			
61.30	S0		70.00	40.00	252.10	-58.72	-48.16	359.26	0.00	89.26			
63.90	CNT		60.00	100.00	252.12	-58.80	-38.21	34.87	0.00	124.87			
64.70	S0		80.00										
71.60	VN		70.00										
74.90	S0		60.00	80.00	251.35	-58.90	-45.84	24.70	0.00	114.70			
78.30	VN		65.00										
82.00			50.00	310.00	251.43	-58.90	-63.74	308.13	0.00	38.13	80.00	FAXIS	
82.00	AxialPlane		50.00	310.00	251.43	-58.90	-63.74	308.13	0.00	38.13			
82.30			15.00	350.00	251.45	-58.90	-74.35	151.42	0.00	241.42	90.00	FAXIS	
82.30	AxialPlane		15.00	350.00	251.45	-58.90	-74.35	151.42	0.00	241.42			
85.60	S0		65.00	130.00	251.67	-58.82	-23.65	35.48	0.00	125.48			
88.50	VN		55.00										
94.20	S0		70.00										
98.10	S0		65.00										
103.10	S0		70.00	60.00	254.40	-58.70	-44.43	9.43	0.00	99.43	1.00		
107.50	S0		75.00	80.00	254.40	-58.70	-36.68	9.66	0.00	99.66			
107.60	VN		25.00	340.00	254.40	-58.70	-85.33	146.28	0.00	236.28			
107.90	S2		30.00	10.00	254.40	-58.70	-89.09	173.05	0.00	263.05			
112.90	VN		20.00										
116.70	S0		20.00	140.00	254.40	-58.70	-48.22	110.31	0.00	200.31			
117.20			48.00	140.00	254.40	-58.70	-25.67	81.28	0.00	171.28	90.00	FAXIS	

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
117.20	AxialPlane		48.00	40.00	254.40	-58.70	-68.37	11.96	0.00	101.96			

**Sample Data - ASSAY**

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
403689	8.00	9.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.039	0.840	158.00	87.30	16.75	160.0	0.767	215.00	18.20	131.00	585.00
403690	9.00	10.00	1.00	2	VO18189327 - Finalized	22/08/2018	0.002	0.010	87.00	2.00	12.60	1,300.0	0.006	366.00	0.40	157.00	239.00
403691	10.00	10.80	0.80	2	VO18189328 - Finalized	30/08/2018	0.001	0.010	90.00	2.60	11.50	1,310.0	0.003	345.00	0.19	154.50	189.00
403692	10.80	12.00	1.20	2	VO18189328 - Finalized	30/08/2018	0.001	0.010	76.90	1.90	11.75	1,470.0	0.003	348.00	0.20	131.00	200.00
403693	12.00	13.00	1.00	2	VO18189328 - Finalized	30/08/2018	0.002	0.005	62.20	0.70	14.40	1,330.0	0.003	350.00	0.21	131.00	231.00
403694	13.00	14.00	1.00	2	VO18189328 - Finalized	30/08/2018	0.002	0.010	40.60	0.70	11.65	978.0	0.003	257.00	0.22	94.30	178.00
403695	14.00	15.00	1.00	2	VO18189328 - Finalized	30/08/2018	0.001	0.040	45.70	0.60	12.55	1,090.0	0.006	286.00	0.21	106.50	187.00
403696	15.00	16.00	1.00	2	VO18189328 - Finalized	30/08/2018	0.002	0.010	65.00	0.80	15.80	1,400.0	0.003	389.00	0.27	160.00	246.00
403697	16.00	17.00	1.00	2	VO18189328 - Finalized	30/08/2018	0.021	0.020	60.70	0.40	13.00	1,130.0	0.007	352.00	0.24	147.00	210.00
403698	17.00	18.00	1.00	2	VO18189328 - Finalized	30/08/2018	0.020	0.010	67.30	0.50	15.35	1,360.0	0.003	364.00	0.22	158.00	246.00
403700	18.00	19.00	1.00	2	VO18189328 - Finalized	30/08/2018	0.007	0.010	100.50	4.00	14.25	1,080.0	0.006	302.00	0.53	155.50	189.00
403701	19.00	20.00	1.00	2	VO18189328 - Finalized	30/08/2018	0.005	0.060	27.30	4.40	10.50	781.0	0.005	228.00	0.41	65.60	131.00
403702	20.00	21.00	1.00	2	VO18189328 - Finalized	30/08/2018	0.005	0.010	31.00	1.50	13.00	892.0	0.005	274.00	0.24	71.00	147.00
403703	21.00	22.20	1.20	2	VO18189328 - Finalized	30/08/2018	0.002	0.050	20.00	9.40	10.95	704.0	0.017	210.00	3.65	46.10	129.00
403704	22.20	23.00	0.80	2	VO18189328 - Finalized	30/08/2018	0.007	0.090	16.40	40.70	13.60	3,620.0	0.013	40.00	1.32	12.30	31.00
403705	23.00	24.00	1.00	2	VO18189328 - Finalized	30/08/2018	0.002	0.030	59.30	13.60	10.65	3,690.0	0.011	31.00	0.44	3.70	28.00
403707	24.00	25.00	1.00	2	VO18189328 - Finalized	30/08/2018	0.003	0.100	29.50	43.10	10.85	3,290.0	0.037	49.00	2.25	11.80	29.00
403708	25.00	26.20	1.20	2	VO18189328 - Finalized	30/08/2018	0.027	1.100	3.80	302.00	23.80	104.0	0.501	140.00	14.15	114.50	401.00
403709	26.20	27.00	0.80	2	VO18189328 - Finalized	30/08/2018	0.533	0.150	1.60	44.00	15.80	4,380.0	0.054	88.00	4.60	18.70	53.00
403710	27.00	28.00	1.00	2	VO18189328 - Finalized	30/08/2018	1.155	0.070	18.10	11.30	21.10	5,760.0	0.006	27.00	1.19	5.90	25.00
403711	28.00	29.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.012	0.030	12.60	2.40	17.95	5,340.0	0.008	13.00	0.26	2.40	9.00
403712	29.00	30.00	1.00	2	VO18189329 - Finalized	20/08/2018	3.280	0.120	21.20	8.90	17.85	5,600.0	0.168	21.00	0.51	4.80	24.00
403713	30.00	31.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.668	0.070	30.20	8.40	21.30	6,130.0	0.023	17.00	0.28	3.50	23.00
403714	31.00	32.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.033	0.030	8.80	2.00	18.70	5,430.0	0.007	15.00	0.25	3.40	11.00
403715	32.00	33.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.096	0.020	142.50	4.40	21.90	6,120.0	0.008	17.00	0.30	3.60	18.00
403716	33.00	34.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.315	0.070	341.00	11.10	21.20	6,130.0	0.024	24.00	0.43	4.50	31.00
403717	34.00	35.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.199	0.020	35.00	8.90	18.50	5,860.0	0.022	27.00	0.32	4.10	35.00
403718	35.00	36.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.009	0.030	106.50	10.20	17.15	5,590.0	0.006	17.00	0.20	3.30	30.00
403720	36.00	37.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.066	0.040	9.30	13.80	22.40	9,690.0	0.016	24.00	1.24	5.10	34.00
403721	37.00	38.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.471	0.030	16.00	5.60	22.20	9,750.0	0.018	18.00	0.87	5.10	30.00
403722	38.00	39.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.451	0.010	22.30	5.30	22.00	9,830.0	0.017	19.00	0.68	4.50	22.00
403723	39.00	40.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.417	0.010	3.10	3.30	18.15	7,500.0	0.008	10.00	0.24	3.10	17.00
403724	40.00	41.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.215	0.020	12.20	1.70	20.20	9,050.0	0.006	13.00	0.33	3.20	15.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
403725	41.00	42.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.214	0.020	7.00	5.90	18.80	7,940.0	0.033	17.00	0.23	4.00	19.00
403727	42.00	43.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.002	0.030	15.60	10.40	25.20	6,600.0	0.006	27.00	1.04	3.60	12.00
403728	43.00	44.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.001	0.090	2.90	20.40	25.60	6,510.0	0.009	9.00	1.13	7.50	8.00
403729	44.00	45.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.001	0.020	1.30	1.60	22.00	7,740.0	0.003	8.00	0.29	4.30	7.00
403730	45.00	46.00	1.00	2	VO18189329 - Finalized	20/08/2018	0.632	0.070	2.70	17.90	20.30	7,100.0	0.022	14.00	0.25	6.30	12.00
403731	46.00	47.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.001	0.010	9.00	2.00	20.40	9,360.0	0.008	19.00	0.34	5.20	9.00
403732	47.00	48.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.001	0.010	2.60	1.80	23.20	9,140.0	0.016	14.00	0.47	3.70	9.00
403733	48.00	49.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.340	0.080	11.20	6.30	24.20	9,520.0	0.014	19.00	0.62	4.70	12.00
403734	49.00	50.00	1.00	2	VO18189331 - Finalized	29/08/2018	1.690	0.090	30.60	9.40	25.10	8,550.0	0.060	13.00	0.38	4.20	16.00
403735	50.00	51.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.010	0.010	20.20	1.90	24.50	7,320.0	0.017	13.00	0.16	2.30	15.00
403736	51.00	52.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.051	0.020	33.00	2.20	28.20	9,500.0	0.013	12.00	0.18	2.80	6.00
403737	52.00	53.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.519	0.040	17.10	6.10	26.50	9,120.0	0.045	15.00	0.22	2.50	15.00
403738	53.00	54.00	1.00	2	VO18189331 - Finalized	29/08/2018	2.150	0.160	23.20	9.60	25.00	9,860.0	0.078	33.00	0.25	4.80	33.00
403740	54.00	55.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.857	0.030	7.00	4.30	21.40	10,900.0	0.049	28.00	0.37	5.60	18.00
403741	55.00	56.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.255	0.050	21.10	5.40	23.40	13,800.0	0.020	28.00	0.60	8.50	14.00
403742	56.00	57.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.397	0.030	20.20	4.10	22.20	14,450.0	0.840	37.00	1.05	12.10	19.00
403743	57.00	58.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.005	0.110	12.20	14.10	21.30	10,750.0	0.025	63.00	1.08	13.10	31.00
403744	58.00	59.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.001	0.020	17.80	6.20	20.90	14,700.0	0.017	39.00	0.56	14.30	17.00
403745	59.00	60.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.001	0.200	5.60	8.00	20.20	12,900.0	0.010	48.00	0.43	10.40	12.00
403747	60.00	61.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.004	0.020	13.30	12.40	22.70	17,800.0	0.009	121.00	0.92	17.90	23.00
403748	61.00	62.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.002	0.010	8.60	5.90	17.15	13,150.0	0.021	73.00	0.45	12.50	24.00
403749	62.00	63.00	1.00	2	VO18189331 - Finalized	29/08/2018	0.001	0.030	2.80	7.50	14.70	8,570.0	0.015	66.00	0.65	13.40	22.00
403750	63.00	63.90	0.90	2	VO18189331 - Finalized	29/08/2018	0.002	0.040	1.50	10.50	12.65	7,700.0	0.016	46.00	0.49	9.70	14.00
457047	63.90	66.00	2.10	2	VO18189334 - Finalized	29/08/2018	0.001	0.070	11.60	72.10	12.55	1,880.0	0.023	252.00	1.64	71.30	62.00
457048	66.00	68.00	2.00	2	VO18189334 - Finalized	29/08/2018	0.002	0.060	26.10	139.50	9.29	836.0	0.038	349.00	0.29	84.70	83.00
457050	68.00	70.00	2.00	2	VO18189334 - Finalized	29/08/2018	0.004	0.080	21.20	123.00	8.42	1,060.0	0.033	330.00	0.29	77.10	73.00
457051	70.00	71.30	1.30	2	VO18189334 - Finalized	29/08/2018	0.001	0.120	37.70	116.00	9.17	1,100.0	0.017	350.00	0.52	81.60	82.00
457052	71.30	73.00	1.70	2	VO18189334 - Finalized	29/08/2018	0.001	0.140	13.20	102.00	4.39	449.0	0.014	230.00	5.99	49.80	104.00
457053	73.00	75.00	2.00	2	VO18189334 - Finalized	29/08/2018	0.006	0.130	0.70	106.00	5.33	1,010.0	0.040	215.00	5.08	43.20	150.00
457054	75.00	77.00	2.00	2	VO18189334 - Finalized	29/08/2018	0.001	0.160	1.20	64.70	5.45	986.0	0.067	216.00	5.04	56.60	154.00
457055	77.00	79.00	2.00	2	VO18189334 - Finalized	29/08/2018	0.003	0.280	0.90	59.10	7.18	448.0	0.074	253.00	6.97	52.90	213.00
457057	79.00	81.00	2.00	2	VO18189334 - Finalized	29/08/2018	0.008	0.410	0.60	48.10	7.52	494.0	0.079	222.00	4.83	51.10	216.00
457058	81.00	83.00	2.00	2	VO18189334 - Finalized	29/08/2018	0.006	0.310	0.70	44.60	7.10	482.0	0.059	242.00	7.55	50.50	183.00
457059	83.00	85.00	2.00	2	VO18189334 - Finalized	29/08/2018	0.009	0.330	0.70	57.20	6.25	373.0	0.107	253.00	4.77	47.10	327.00
457060	85.00	87.00	2.00	2	VO18189334 - Finalized	29/08/2018	0.009	0.320	0.50	56.20	9.60	613.0	0.073	242.00	5.35	54.50	284.00
457061	87.00	89.00	2.00	2	VO18189335 - Finalized	29/08/2018	0.021	0.370	0.90	66.70	6.68	410.0	0.092	236.00	4.44	50.20	281.00
457062	89.00	91.00	2.00	2	VO18189335 - Finalized	29/08/2018	0.010	0.300	31.50	113.00	10.00	1,120.0	0.032	324.00	1.69	82.90	213.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457063	91.00	93.00	2.00	2	VO18189335 - Finalized	29/08/2018	0.002	0.130	24.20	47.10	9.16	819.0	0.028	307.00	2.95	71.20	217.00
457064	93.00	95.00	2.00	2	VO18189335 - Finalized	29/08/2018	0.004	0.300	0.70	39.40	7.26	516.0	0.160	291.00	5.68	51.00	471.00
457065	95.00	96.80	1.80	2	VO18189335 - Finalized	29/08/2018	0.006	0.250	0.50	46.10	7.52	405.0	0.073	275.00	4.60	44.30	285.00
457066	96.80	98.80	2.00	2	VO18189335 - Finalized	29/08/2018	0.001	0.050	9.30	33.70	6.68	566.0	0.011	210.00	2.17	51.90	160.00
457067	98.80	101.00	2.20	2	VO18189335 - Finalized	29/08/2018	0.002	0.070	1.60	32.40	4.47	206.0	0.007	90.00	0.81	34.10	77.00
457068	101.00	103.00	2.00	2	VO18189335 - Finalized	29/08/2018	0.003	0.080	2.30	44.10	4.32	180.0	0.006	88.00	0.97	37.70	74.00
457070	103.00	105.00	2.00	2	VO18189335 - Finalized	29/08/2018	0.001	0.120	0.60	53.20	4.47	171.0	0.003	93.00	1.05	35.90	76.00
457071	105.00	107.00	2.00	2	VO18189335 - Finalized	29/08/2018	0.002	0.140	0.60	82.80	4.11	138.0	0.017	116.00	2.28	40.00	84.00
457072	107.00	109.00	2.00	2	VO18189335 - Finalized	29/08/2018	0.001	0.110	5.90	51.20	4.93	279.0	0.010	89.00	0.83	34.90	90.00
457073	109.00	111.00	2.00	2	VO18189335 - Finalized	29/08/2018	0.001	0.100	0.30	28.50	4.39	211.0	0.005	78.00	0.42	32.60	73.00
457074	111.00	113.00	2.00	2	VO18189335 - Finalized	29/08/2018	0.001	0.100	0.30	32.70	4.66	242.0	0.003	79.00	0.60	33.70	74.00
457075	113.00	115.00	2.00	2	VO18189335 - Finalized	29/08/2018	0.002	0.080	1.70	28.50	4.43	202.0	0.003	77.00	0.39	32.50	75.00
457077	115.00	117.00	2.00	2	VO18189335 - Finalized	29/08/2018	0.001	0.160	1.30	34.60	4.52	166.0	0.016	95.00	0.76	33.70	77.00
457078	117.00	118.00	1.00	2	VO18189335 - Finalized	29/08/2018	0.001	0.070	16.80	32.10	4.83	152.0	0.005	96.00	0.45	34.60	80.00



## Detailed Log Report

### Hole Number OSK-KAN-18-016

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-60.00 <b>Collar Az:</b> 250.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 369 185.00	<b>Length:</b>	139.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	July 28, 2018	<b>East:</b>	486 292.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	July 30, 2018	<b>Elev:</b>	163.00	<b>Casing Length:</b>	13.00 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	N <b>Making Water:</b> N
<b>Logger 1:</b>	Simon Hebert			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	200			<b>Claims Title:</b>	2099196 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	13.00	<b>OVB, Overburden</b>					
<b>Comments:</b>							
13.00	22.10	<b>S6g, Grey Shale</b>	457079	13.00	15.00	2.00	S6g; Ank-1; 1% I1N QZ AK
			457080	15.00	17.00	2.00	S6g; Ank-1; 0.1% Po DI BD; 1% I1N QZ AK
<b>Comments:</b>							
			457081	17.00	19.00	2.00	S6g; Ank-1; 0.1% Po DI BD; 1% I1N QZ AK
			457082	19.00	21.00	2.00	S6g; Ank-1; 0.1% Po DI BD; 1% I1N QZ AK
			457083	21.00	22.10	1.10	S6g; Ank-1; 0.1% Po DI BD; 1% I1N QZ AK
22.10	30.00	<b>I3A, Gabbro</b>	457084	22.10	24.00	1.90	I3A; CC-3 CC-3; 0.1% Po DI VN; 10% I1N QZ AK
			457085	24.00	26.00	2.00	I3A; CC-3 CC-3; 0.1% Po DI VN; 10% I1N QZ AK
<b>Comments:</b>							
			457086	26.00	28.00	2.00	I3A; CC-3 CC-3; 0.1% Po DI VN; 10% I1N QZ AK
			457087	28.00	30.00	2.00	I3A; CC-3 CC-3

From	To	Lithology	Sample	From	To	Length	Comments	
30.00	59.35	<b>S9, Iron formation</b>	403751	30.00	31.00	1.00	S9C Ank; Chl-1 Ank-2; 1% Po AL VN; 5% I1N QZ AK	
			403752	31.00	32.00	1.00	S9C Ank; Chl-1 Ank-2; 1% Po AL VN; 5% I1N QZ AK	
<b>Comments:</b>			403753	32.00	33.00	1.00	S9C Ank; Ank-5 Chl-5 Chl-3; 5% Po AL VN 1.5% Po DI PER; 25% I1N QZ AK	
			403754	33.00	34.00	1.00	S9C Ank; Ank-5 Chl-5 Chl-3; 5% Po AL VN 1.5% Po DI PER; 25% I1N QZ AK	
			403755	34.00	35.00	1.00	S9C Ank; Ank-5 Chl-5 Chl-3; 5% Po AL VN 1.5% Po DI PER; 25% I1N QZ AK	
			403756	35.00	36.00	1.00	S9C Ank; Ank-5 Chl-5 Chl-3; 5% Po AL VN 1.5% Po DI PER; 25% I1N QZ AK	
			403757	36.00	37.00	1.00	S9C Ank; Ank-5 Chl-5 Chl-3; 5% Po AL VN 1.5% Po DI PER; 25% I1N QZ AK	
			403758	37.00	38.00	1.00	S9C Ank; Ank-5 Chl-5 Chl-3; 5% Po AL VN 1.5% Po DI PER; 25% I1N QZ AK	
			403760	38.00	39.00	1.00	S9C Ank; Ank-5 Chl-5 Chl-3; 5% Po AL VN 1.5% Po DI PER; 25% I1N QZ AK	
			403761	39.00	40.00	1.00	S9C Ank; Ank-5 Chl-5 Chl-3; 5% Po AL VN 1.5% Po DI PER; 25% I1N QZ AK	
			403762	40.00	41.00	1.00	S9C Ank; Ank-5 Chl-5 Chl-3; 5% Po AL VN 1.5% Po DI PER; 25% I1N QZ AK	
			403763	41.00	42.00	1.00	S9C Ank; Ank-5 Chl-5 Chl-3; 5% Po AL VN 1.5% Po DI PER; 25% I1N QZ AK	
			403764	42.00	43.50	1.50	S9C Ank; Ank-5 Chl-5 Chl-3; 5% Po AL VN 1.5% Po DI PER; 25% I1N QZ AK	
			403765	43.50	45.00	1.50	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK	
			403767	45.00	46.00	1.00	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK	
			403768	46.00	47.00	1.00	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK	
			403769	47.00	48.00	1.00	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK	
			403770	48.00	49.00	1.00	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK	
			403771	49.00	50.00	1.00	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK	
			403772	50.00	51.00	1.00	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK	
		403773	51.00	52.00	1.00	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK		
		403774	52.00	53.00	1.00	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK		
		403775	53.00	54.00	1.00	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK		
		403776	54.00	55.00	1.00	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK		
		403777	55.00	56.00	1.00	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK		
		403778	56.00	57.00	1.00	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK		
		403780	57.00	58.00	1.00	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK		
		403781	58.00	59.35	1.35	S9C Ank; Chl-2 Ank-3 Ser-2 Chl-2; 2% Po AL VN 2% Po AL BD; 5% I1N QZ AK		
59.35	60.10	<b>S6, Mudrock</b>	403782	59.35	60.10	0.75	S6; Chl-2 Ank-3 Ser-2 Chl-2; 5% Po LA BD; 1% I1N QZ CB	
<b>Comments:</b>								



From	To	Lithology	Sample	From	To	Length	Comments	
60.10	110.25	S9, Iron formation	403783	60.10	61.00	0.90	S9C Ank; 5% I1N CL AK	
			403784	61.00	62.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 2% Po AL VN; 5% I1N CL AK	
<b>Comments:</b>			403785	62.00	63.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 2% Po AL VN; 5% I1N CL AK	
			403787	63.00	64.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 2% Po AL VN; 5% I1N CL AK	
			403788	64.00	65.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 2% Po AL VN; 5% I1N CL AK	
			403789	65.00	66.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 2% Po AL VN; 5% I1N CL AK	
			403790	66.00	67.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 5% Po AL VN; 5% I1N CL AK	
			403791	67.00	68.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 5% Po AL VN; 5% I1N CL AK	
			403792	68.00	69.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 5% Po AL VN; 5% I1N CL AK	
			403793	69.00	70.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 5% Po AL VN; 5% I1N CL AK	
			403794	70.00	71.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 5% Po AL VN; 5% I1N CL AK	
			403795	71.00	72.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 5% Po AL VN; 5% I1N CL AK	
			403796	72.00	73.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 5% Po AL VN; 5% I1N CL AK	
			403797	73.00	74.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 5% Po AL VN; 5% I1N CL AK	
			403798	74.00	75.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 5% Po AL VN; 5% I1N CL AK	
			403800	75.00	76.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 0.1% Vg DI VN 5% Po AL VN; 5% I1N CL AK	
			403801	76.00	77.00	1.00	S9C Ank; Sil-3 Chl-2 Ank-2 Sil-1 Chl-1; 5% Po AL VN; 5% I1N CL AK	
			403802	77.00	78.00	1.00	S9C Sid; 1% Po AL VN; 1% I1N AK CL	
			403803	78.00	79.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL	
			403804	79.00	80.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL	
			403805	80.00	81.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL	
			403807	81.00	82.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL	
			403808	82.00	83.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL	
			403809	83.00	84.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL	
			403810	84.00	85.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL	
			403811	85.00	86.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL	
			403812	86.00	87.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL	
			403813	87.00	88.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL	
		403814	88.00	89.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL		
		403815	89.00	90.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL		
		403816	90.00	91.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL		
		403817	91.00	92.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL		
		403818	92.00	93.00	1.00	S9C Sid; Chl-2 Chl-1 Ser-1 Sil-1 Sil-2; 1% Po AL VN; 1% I1N AK CL		
		403820	93.00	94.00	1.00	S9C Sid; BL-1 Ank-5 Chl-5 Ser-2 Sil-4; 1% Po AL VN; 1% I1N AK CL		
		403821	94.00	95.00	1.00	S9C Ank; BL-1 Ank-5 Chl-5 Ser-2 Sil-4; 2% Po AL VN; 15% I1N AK CL		
		403822	95.00	96.00	1.00	S9C Ank; BL-1 Ank-5 Chl-5 Ser-2 Sil-4; 2% Po AL VN; 15% I1N AK CL		
		403823	96.00	97.00	1.00	S9C Ank; BL-1 Ank-5 Chl-5 Ser-2 Sil-4; 2% Po AL VN; 15% I1N AK CL		
		403824	97.00	98.00	1.00	S9C Ank; BL-1 Ank-5 Chl-5 Ser-2 Sil-4; 2% Po AL VN; 15% I1N AK CL		
		403825	98.00	99.00	1.00	S9C Ank; Sil-5 Ank-3 BL-1 Chl-1; 4% Po DI PER; 15% I1N AK CL		
		403827	99.00	100.00	1.00	S9C Ank; Sil-5 Ank-3 BL-1 Chl-1; 2% Po AL VN; 15% I1N AK CL		
		403828	100.00	101.00	1.00	S9C Sid; Ank-2 Sil-2 Chl-1; 0.5% Po AL VN; 1% I1N AK QZ		

From	To	Lithology	Sample	From	To	Length	Comments
			403829	101.00	102.00	1.00	S9C Sid; Ank-2 Sil-2 Chl-1; 0.5% Po AL VN; 1% I1N AK QZ
			403830	102.00	103.00	1.00	S9C Sid; Ank-2 Sil-2 Chl-1; 0.5% Po AL VN; 1% I1N AK QZ
			403831	103.00	104.00	1.00	S9C Sid; Ank-2 Sil-2 Chl-1; 0.5% Po AL VN; 1% I1N AK QZ
			403832	104.00	105.00	1.00	S9C Sid; Ank-2 Sil-2 Chl-1; 0.5% Po AL VN; 1% I1N AK QZ
			403833	105.00	106.00	1.00	S9C Sid; Ank-2 Sil-2 Chl-1; 0.5% Po AL VN; 1% I1N AK QZ
			403834	106.00	107.00	1.00	S9C Sid; Ank-2 Sil-2 Chl-1; 0.5% Po AL VN; 1% I1N AK QZ
			403835	107.00	108.00	1.00	S9C Sid; Ank-2 Sil-2 Chl-1; 0.5% Po AL VN; 1% I1N AK QZ
			403836	108.00	109.00	1.00	S9C Sid; Ank-2 Sil-2 Chl-1; 0.5% Po AL VN; 1% I1N AK QZ
			403837	109.00	110.25	1.25	S9C Sid; 1% I1N AK QZ
110.25	119.15	<b>S6g, Grey Shale</b>	457088	110.25	112.00	1.75	S6g GP; Carb-2 Sil-1; 0.5% Po LA SCH
<b>Comments:</b>			457090	112.00	114.00	2.00	; 0.5% Po LA SCH; 0.5% I1N QZ CB
			457091	114.00	116.00	2.00	S6g; Carb-1; 0.01% Po LA SCH; 0.5% I1N QZ CB
			457092	116.00	118.00	2.00	S6g; Carb-1; 0.01% Po LA SCH; 0.5% I1N QZ CB
			457093	118.00	119.15	1.15	S6g; Carb-2; 0.5% Po LA SCH; 0.5% I1N QZ CB
119.15	132.40	<b>I3A, Gabbro</b>	457094	119.15	121.00	1.85	I3A; CC-3 CC-1; 0.01% Po DI PER; 0.5% I1N QZ CB
<b>Comments:</b>			457095	121.00	123.00	2.00	I3A; CC-3 CC-1; 0.01% Po DI PER; 0.5% I1N QZ CB
			457097	123.00	125.00	2.00	I3A; 0.01% Po DI PER; 0.5% I1N QZ CB
			457098	125.00	127.00	2.00	I3A; CC-1; 0.01% Po DI PER; 0.5% I1N QZ CB
			457099	127.00	129.00	2.00	I3A; CC-1; 0.01% Po DI PER; 0.5% I1N QZ CB
			457100	129.00	131.00	2.00	I3A; CC-1; 0.01% Po DI PER; 0.5% I1N QZ CB
			457101	131.00	132.40	1.40	I3A; CC-1; 0.01% Po DI PER; 0.5% I1N QZ CB
132.40	139.00	<b>S6g, Grey Shale</b>	457102	132.40	134.00	1.60	S6g; Chl-2 Sil-1 CC-2; 0.01% Po DI PER; 5% I1N QZ CB
<b>Comments:</b>			457103	134.00	136.00	2.00	S6g; Chl-2 Sil-1 CC-2; 0.01% Po DI PER; 5% I1N QZ CB
			457104	136.00	138.00	2.00	S6g; Chl-2 Sil-1 CC-2; 0.01% Po DI PER; 5% I1N QZ CB
			457105	138.00	139.00	1.00	S6g; Chl-2 Sil-1 CC-2; 0.01% Po DI PER; 5% I1N QZ CB

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
1.00	341.80	-58.30	FM	Test Non-OK	
4.00	341.80	-58.20	FM	Test Non-OK	
7.00	341.80	-58.20	FM	Test Non-OK	
10.00	341.80	-58.40	FM	Test Non-OK	
13.00	341.80	-58.20	FM	Test Non-OK	
16.00	341.70	-58.20	FM	Test Non-OK	
19.00	341.70	-58.30	FM	Test Non-OK	
22.00	341.70	-58.20	FM	Test Non-OK	
25.00	331.70	-59.70	FM	Test Non-OK	
28.00	265.60	-58.10	FM	Test Non-OK	
31.00	248.60	-58.10	FM	Test OK-Accept	
34.00	248.50	-58.10	FM	Test OK-Accept	
37.00	248.90	-58.00	FM	Test OK-Accept	
40.00	258.30	-56.30	FM	Test Non-OK	
43.00	254.60	-58.20	FM	Test Non-OK	
46.00	248.90	-58.00	FM	Test OK-Accept	
49.00	249.60	-57.90	FM	Test OK-Accept	
52.00	249.90	-57.90	FM	Test OK-Accept	
55.00	249.90	-57.90	FM	Test OK-Accept	
58.00	294.30	-44.20	FM	Test Non-OK	
61.00	248.80	-57.90	FM	Test OK-Accept	
64.00	250.30	-58.10	FM	Test Non-OK	
67.00	249.00	-57.90	FM	Test OK-Accept	
70.00	249.40	-57.90	FM	Test OK-Accept	
73.00	231.50	-58.10	FM	Test Non-OK	
76.00	249.30	-58.00	FM	Test OK-Accept	
79.00	282.90	-49.30	FM	Test Non-OK	
82.00	249.40	-58.10	FM	Test OK-Accept	
85.00	248.30	-58.10	FM	Test OK-Accept	
88.00	249.30	-57.90	FM	Test OK-Accept	
91.00	248.20	-58.00	FM	Test OK-Accept	
94.00	248.90	-58.00	FM	Test OK-Accept	
97.00	248.90	-58.00	FM	Test OK-Accept	
100.00	249.70	-57.90	FM	Test OK-Accept	
103.00	249.00	-58.20	FM	Test OK-Accept	
106.00	248.00	-58.30	FM	Test OK-Accept	
109.00	248.70	-58.20	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
112.00	248.60	-58.30	FM	Test OK-Accept	
115.00	248.60	-58.20	FM	Test OK-Accept	
118.00	248.90	-58.20	FM	Test OK-Accept	
121.00	248.70	-58.40	FM	Test OK-Accept	
124.00	248.30	-58.30	FM	Test OK-Accept	
127.00	247.80	-58.40	FM	Test OK-Accept	
130.00	201.80	-69.10	FM	Test Non-OK	
133.00	247.90	-58.40	FM	Test OK-Accept	
136.00	248.00	-58.40	FM	Test OK-Accept	
139.00	248.20	-58.30	FM	Test OK-Accept	

## Lithology Data

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments	
13.00	22.10	S6g	BD	HJ			S6g			GD		1	Aph					
22.10	30.00	I3A	HG	FI			I3A			VM		1	MG			DIF	Intercalled gabbro and grey shale.	
30.00	59.35	S9	BD	HK			S9C Ank	4.00	Carbonate	GM	VM	3	FG				Heterogeneous unit where the cherts beds if heterogeneously distributed in the interval.	
59.35	60.10	S6	LA	HJ			S6			BK		1	Aph		35.00	SHP		
60.10	77.00	S9	BD	HK			S9C Ank	6.00	Silica	GL	VM	3	FG				DIF	
77.00	94.00	S9	BD	HJ			S9C Sid	8.00	Silica	VM	GM	2	FG				DIF	
94.00	100.00	S9	BD	HK			S9C Ank	3.00	Silica	GL	VM	3	FG				DIF	
100.00	110.25	S9	BD	HJ			S9C Sid	6.00	Silica	GM	GM	2	FG				DIF	
110.25	113.10	S6g	LA	HJ			S6g GP			BK		1	Aph					
113.10	119.15	S6g	LA				S6g			GD		2	Aph					
119.15	132.40	I3A	MA	PI	HK		I3A			VL		2	MG		55.00	SHP		
132.40	139.00	S6g	BD	CS	HJ		S6g			GM		2	Aph				NA	

Mineralization Data																		
From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3	
13.10	22.10		Po	0.10	DI	BD												
22.10	29.50		Po	0.10	DI	VN												
29.50	32.00		Po	1.00	AL	VN												
32.00	43.50		Po	5.00	AL	VN		Po	1.50	DI	PER							
43.50	59.35		Po	2.00	AL	VN		Po	2.00	AL	BD							
59.35	60.20		Po	5.00	LA	BD												
60.20	66.00		Po	2.00	AL	VN												
66.00	75.00		Po	5.00	AL	VN												
75.00	76.00		Vg	0.10	DI	VN		Po	5.00	AL	VN							
76.00	77.00		Po	5.00	AL	VN												
77.00	94.00		Po	1.00	AL	VN												
94.00	98.00		Po	2.00	AL	VN												
98.00	99.00		Po	4.00	DI	PER												
99.00	100.00		Po	2.00	AL	VN												
100.00	110.15		Po	0.50	AL	VN												
110.15	114.00		Po	0.50	LA	SCH												
114.00	118.00		Po	0.01	LA	SCH												
118.00	119.15		Po	0.50	LA	SCH												
119.15	139.00		Po	0.01	DI	PER												

Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
13.00	22.10	Ank	1	VN							
22.10	30.00	CC	3	DI	CC	3	VN				
30.00	32.00	Chl	1	VN	Ank	2	VN				
32.00	43.50	Ank	5	VN	Chl	5	VN	Chl	3	PEN	
43.50	60.20	Chl	2	VN	Ank	3	VN	Ser	2	PEN	
60.20	77.60	Sil	3	VN	Chl	2	VN	Ank	2	VN	disseminated chlorite in chert bands.
77.60	93.00	Chl	2	VN	Chl	1	DI	Ser	1	VN	
93.00	98.00	BL	1	PEN	Ank	5	VN	Chl	5	VN	with diss sulfides
98.00	100.00	Sil	5	PEN	Ank	3	VN	BL	1	PEN	
100.00	110.15	Ank	2	VN	Sil	2	VN	Chl	1	VN	
110.15	113.60	Carb	2	VN	Sil	1	VN				
113.60	118.00	Carb	1	DI							
118.00	119.15	Carb	2	VN							
119.15	124.00	CC	3	DI	CC	1	VN				
124.00	132.40	CC	1	VN							
132.40	139.00	Chl	2	VN	Sil	1	VN	CC	2	VN	

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
13.00	22.10	1.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00						Po	0.20			
22.10	29.50	10.00		I1N	UNK	Veinlet <5cm	QZ	50.00	AK	1.00	CC	49.00				Po	0.10			
29.50	32.00	5.00		I1N	UNK	Vein >5cm	QZ	90.00	AK	6.00	CL	4.00				Po	1.00			
32.00	43.50	25.00		I1N	UNK	Vein >5cm	QZ	50.00	AK	30.00	CL	10.00				Po	5.00			
43.50	59.40	5.00		I1N	UNK	Vein >5cm	QZ	96.00	AK	8.00	CL	1.00				Po	2.00			
59.40	60.10	1.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CB	50.00										
60.10	77.00	5.00		I1N	UNK	Vein >5cm	CL	3.00	AK	20.00	CB	3.00				Po	3.00	Au	0.01	visible gold @ 75.8m
77.00	94.00	1.00		I1N	UNK	Veinlet <5cm	AK	5.00	CL	5.00	QZ	90.00				Po	1.00			
94.00	100.00	15.00		I1N	UNK	Vein >5cm	AK	25.00	CL	8.00	SR	2.00				Po	5.00			
100.00	110.30	1.00		I1N	UNK	Veinlet <5cm	AK	3.00	QZ	97.00										
110.30	132.40	0.50		I1N	UNK	Veinlet <5cm	QZ	50.00	CB	50.00										
132.40	139.00	5.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CB	50.00										

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments

## Oriented Structure Data

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
12.90	S0		65.00										
21.60			65.00	0.00	309.67	-59.17	-55.83	39.67	0.00	129.67	60.00	FAXIS	
21.60	AxialPlane		65.00	0.00	309.67	-59.17	-55.83	39.67	0.00	129.67			
23.00	S0		65.00	80.00	341.80	-58.40	-42.82	109.56	0.00	199.56			
24.50	VN		60.00	100.00	259.93	-58.10	-38.64	41.99	0.00	131.99			
24.60	S0		50.00	50.00	257.10	-58.10	-64.40	20.19	0.00	110.19			
27.80	S0		60.00	45.00	248.53	-58.10	-56.74	3.54	0.00	93.54			
28.30	VN		60.00	120.00	248.52	-58.10	-29.85	38.98	0.00	128.98			
32.00	S0		60.00	135.00	252.03	-57.43	-23.05	46.59	0.00	136.59			
33.10	S0		75.00										
36.40	S0		40.00	170.00	253.65	-58.17	-19.26	139.87	0.00	229.87			
40.20	VN		35.00	60.00	249.37	-57.93	-74.42	26.80	0.00	116.80			
40.70	S0		60.00	60.00	249.48	-57.92	-53.06	12.29	0.00	102.29			
46.50	S0		70.00	80.00	257.30	-55.62	-42.10	17.46	0.00	107.46			
48.70	S0		55.00	230.00	286.72	-46.48	-32.02	320.74	0.00	50.74			
48.70	S0		55.00	250.00	286.72	-46.48	-43.19	324.76	0.00	54.76			
49.70	VN		35.00	10.00	271.55	-51.05	-86.50	189.74	0.00	279.74			
50.00			85.00	260.00	271.55	-51.05	-38.35	353.60	0.00	83.60	5.00	FAXIS	
50.00	AxialPlane		85.00	260.00	271.55	-51.05	-38.35	353.60	0.00	83.60			
53.20	S0		45.00										
53.40	S0		45.00										
54.90	S0		40.00										
57.40	S0		45.00										
59.50	S0		65.00										
60.30	S0		40.00										
63.70	VN		75.00	350.00	254.90	-56.55	-48.28	341.45	0.00	71.45			
63.70	S0		40.00	320.00	254.90	-56.55	-77.71	314.64	0.00	44.64			
67.50	S0		55.00	200.00	266.15	-53.70	-11.69	280.60	0.00	10.60			
69.30			49.00	180.00	249.03	-58.10	-9.10	159.03	0.00	249.03	100.00	FAXIS	
69.30	AxialPlane		49.00	180.00	249.03	-58.10	-9.10	159.03	0.00	249.03			
70.30	S0		40.00	360.00	248.67	-58.10	-81.90	338.67	0.00	68.67			
73.70	VN		40.00										
75.80	VN		40.00	10.00	248.38	-57.98	-81.66	346.11	0.00	76.11			visible gold
77.60	S0		50.00	210.00	248.67	-58.00	-19.16	237.04	0.00	327.04			



Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
81.30	S0		25.00										
85.30	S0		40.00	230.00	249.23	-58.10	-36.30	241.63	0.00	331.63			
89.60	S0		50.00										
91.70	S0		40.00	230.00	248.67	-58.23	-36.32	240.88	0.00	330.88			
94.80	S0		45.00	280.00	248.60	-58.25	-57.54	282.98	0.00	12.98			
96.20	S0		60.00	240.00	248.65	-58.20	-29.80	278.04	0.00	8.04			
100.60	VN		45.00	35.00	248.73	-58.37	-72.65	3.88	0.00	93.88			
101.20	S0		40.00	150.00	248.63	-58.38	-26.47	99.39	0.00	189.39			
104.90	S0		55.00	130.00	248.05	-58.35	-27.03	53.26	0.00	143.26			
108.80	S0		70.00	230.00	209.48	-67.32	-17.86	240.82	0.00	330.82			
110.00			70.00	180.00	224.85	-63.75	-6.25	314.85	0.00	44.85	30.00	FAXIS	
110.00	AxialPlane		70.00	180.00	224.85	-63.75	-6.25	314.85	0.00	44.85			
110.30	CNT		70.00	200.00	232.53	-61.97	-11.34	286.01	0.00	16.01			
111.10	S0		65.00	230.00	247.92	-58.40	-23.90	284.87	0.00	14.87			
114.80	S0		55.00										
121.80	S0		55.00	310.00	248.20	-58.30	-59.79	307.64	0.00	37.64			
129.30	S0		55.00	215.00	248.20	-58.30	-19.29	253.53	0.00	343.53			
132.40	S0		55.00	200.00	248.20	-58.30	-11.43	240.04	0.00	330.04			
135.95	S2		33.00	25.00	248.20	-58.30	-86.33	359.00	0.00	89.00			
138.80	S2		35.00										

**Sample Data - ASSAY**

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457079	13.00	15.00	2.00	2	VO18189335 - Finalized	29/08/2018	0.001	0.410	5.30	39.50	4.95	303.0	0.024	102.00	1.77	37.10	91.00
457080	15.00	17.00	2.00	2	VO18189335 - Finalized	29/08/2018	0.001	0.070	0.60	27.20	4.67	179.0	0.003	96.00	0.51	33.00	77.00
457081	17.00	19.00	2.00	2	VO18191895 - Finalized	24/08/2018	0.001	0.120	1.40	69.70	4.35	214.0	0.003	99.00	1.49	39.60	82.00
457082	19.00	21.00	2.00	2	VO18191895 - Finalized	24/08/2018	0.003	0.080	2.10	43.90	4.88	368.0	0.016	102.00	0.96	36.20	116.00
457083	21.00	22.10	1.10	2	VO18191895 - Finalized	24/08/2018	0.001	0.130	0.80	69.10	6.84	677.0	0.043	252.00	5.03	54.80	163.00
457084	22.10	24.00	1.90	2	VO18191895 - Finalized	24/08/2018	0.001	0.130	27.60	90.90	6.90	1,720.0	0.021	228.00	2.86	57.20	124.00
457085	24.00	26.00	2.00	2	VO18191895 - Finalized	24/08/2018	0.001	0.110	61.10	88.10	10.20	1,430.0	0.018	351.00	0.21	100.50	131.00
457086	26.00	28.00	2.00	2	VO18191895 - Finalized	24/08/2018	0.001	0.160	45.20	132.50	10.40	1,040.0	0.080	354.00	0.17	83.70	117.00
457087	28.00	30.00	2.00	2	VO18191895 - Finalized	24/08/2018	0.001	0.070	21.00	73.70	14.05	3,670.0	0.024	274.00	0.88	71.10	63.00
403751	30.00	31.00	1.00	2	VO18191859 - Finalized	22/08/2018	0.001	0.010	0.90	3.90	17.80	14,850.0	0.038	68.00	0.42	9.70	20.00
403752	31.00	32.00	1.00	2	VO18191859 - Finalized	22/08/2018	0.009	0.010	1.70	5.50	19.20	13,700.0	0.020	47.00	0.57	8.50	20.00
403753	32.00	33.00	1.00	2	VO18191859 - Finalized	22/08/2018	0.604	0.010	0.50	9.90	22.00	9,540.0	0.035	23.00	0.46	4.80	27.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
403754	33.00	34.00	1.00	2	VO18191859 - Finalized	22/08/2018	0.464	0.010	1.60	10.30	21.10	9,640.0	0.026	19.00	0.30	3.80	20.00
403755	34.00	35.00	1.00	2	VO18191859 - Finalized	22/08/2018	9.770	0.210	3.40	33.90	18.50	5,480.0	0.372	24.00	0.22	10.70	38.00
403756	35.00	36.00	1.00	2	VO18191859 - Finalized	22/08/2018	3.220	0.070	0.50	15.00	15.85	4,340.0	0.042	23.00	0.56	4.90	25.00
403757	36.00	37.00	1.00	2	VO18191859 - Finalized	22/08/2018	0.085	0.020	10.30	8.70	14.05	4,120.0	0.012	28.00	1.64	6.10	17.00
403758	37.00	38.00	1.00	2	VO18191859 - Finalized	22/08/2018	0.272	0.110	0.50	30.00	16.05	3,790.0	0.062	63.00	5.66	18.50	51.00
403760	38.00	39.00	1.00	2	VO18191859 - Finalized	22/08/2018	0.350	0.020	0.40	15.60	19.65	5,140.0	0.016	22.00	0.43	5.10	34.00
403761	39.00	40.00	1.00	2	VO18191859 - Finalized	22/08/2018	6.370	1.300	0.30	6.40	16.05	5,040.0	0.130	20.00	0.49	2.60	27.00
403762	40.00	41.00	1.00	2	VO18191859 - Finalized	22/08/2018	6.120	0.260	3.20	24.70	20.80	5,890.0	0.366	23.00	0.48	8.10	35.00
403763	41.00	42.00	1.00	2	VO18191859 - Finalized	22/08/2018	4.880	0.410	3.50	23.40	20.50	5,980.0	0.204	26.00	0.82	9.50	33.00
403764	42.00	43.50	1.50	2	VO18191859 - Finalized	22/08/2018	1.925	0.200	1.10	15.30	18.85	5,810.0	0.072	23.00	0.71	6.40	24.00
403765	43.50	45.00	1.50	2	VO18191859 - Finalized	22/08/2018	0.010	0.010	6.40	2.40	19.25	5,100.0	0.005	14.00	0.25	3.20	8.00
403767	45.00	46.00	1.00	2	VO18191859 - Finalized	22/08/2018	0.003	0.020	10.60	3.90	18.15	4,650.0	0.010	31.00	0.86	5.30	9.00
403768	46.00	47.00	1.00	2	VO18191859 - Finalized	22/08/2018	0.317	0.020	2.20	5.40	22.20	6,600.0	0.009	25.00	0.44	3.40	11.00
403769	47.00	48.00	1.00	2	VO18191859 - Finalized	22/08/2018	2.470	0.140	1.60	5.30	21.80	6,750.0	0.048	21.00	0.29	3.40	10.00
403770	48.00	49.00	1.00	2	VO18191859 - Finalized	22/08/2018	0.018	0.050	1.50	8.80	22.10	5,790.0	0.030	25.00	0.72	4.30	14.00
403771	49.00	50.00	1.00	2	VO18191856 - Finalized	21/08/2018	0.005	0.010	11.00	3.90	22.20	5,600.0	0.010	17.00	0.25	2.60	12.00
403772	50.00	51.00	1.00	2	VO18191856 - Finalized	21/08/2018	0.018	0.010	6.80	2.50	22.60	5,720.0	0.011	20.00	0.54	3.20	13.00
403773	51.00	52.00	1.00	2	VO18191856 - Finalized	21/08/2018	0.001	0.010	4.50	1.50	21.30	5,450.0	0.011	20.00	0.27	2.40	10.00
403774	52.00	53.00	1.00	2	VO18191856 - Finalized	21/08/2018	0.186	0.130	4.20	36.50	20.90	4,710.0	0.021	10.00	0.82	11.60	11.00
403775	53.00	54.00	1.00	2	VO18191856 - Finalized	21/08/2018	0.001	0.050	4.00	15.30	22.40	5,510.0	0.014	20.00	0.72	6.20	11.00
403776	54.00	55.00	1.00	2	VO18191856 - Finalized	21/08/2018	0.009	0.050	3.60	13.90	20.70	6,080.0	0.003	16.00	0.37	5.80	8.00
403777	55.00	56.00	1.00	2	VO18191856 - Finalized	21/08/2018	0.059	0.020	4.90	2.80	22.00	6,190.0	0.003	27.00	0.34	3.30	11.00
403778	56.00	57.00	1.00	2	VO18191856 - Finalized	21/08/2018	0.016	0.120	8.70	3.80	24.90	7,110.0	0.003	25.00	0.42	4.40	14.00
403780	57.00	58.00	1.00	2	VO18191856 - Finalized	21/08/2018	0.002	0.010	11.60	1.40	23.80	10,450.0	0.003	18.00	0.55	3.90	10.00
403781	58.00	59.35	1.35	2	VO18191856 - Finalized	21/08/2018	0.001	0.010	10.70	6.10	18.55	8,420.0	0.009	20.00	0.63	4.60	11.00
403782	59.35	60.10	0.75	2	VO18191856 - Finalized	21/08/2018	0.010	0.420	4.30	161.00	14.10	416.0	0.191	167.00	13.85	64.80	305.00
403783	60.10	61.00	0.90	2	VO18191856 - Finalized	21/08/2018	0.004	0.110	8.20	20.50	13.95	4,070.0	0.008	53.00	1.68	10.70	22.00
403784	61.00	62.00	1.00	2	VO18191856 - Finalized	21/08/2018	0.002	0.010	1.30	5.10	16.80	5,160.0	0.003	26.00	0.77	2.60	16.00
403785	62.00	63.00	1.00	2	VO18191856 - Finalized	21/08/2018	0.007	0.040	2.40	7.70	17.70	4,540.0	0.005	17.00	0.24	2.10	10.00
403787	63.00	64.00	1.00	2	VO18191856 - Finalized	21/08/2018	0.050	0.010	1.00	10.30	14.45	4,000.0	0.003	24.00	0.37	2.80	11.00
403788	64.00	65.00	1.00	2	VO18191856 - Finalized	21/08/2018	0.029	0.020	0.90	14.80	17.75	4,760.0	0.007	26.00	0.42	3.00	17.00
403789	65.00	66.00	1.00	2	VO18191856 - Finalized	21/08/2018	0.378	0.020	6.40	8.90	21.40	6,090.0	0.003	16.00	0.23	1.90	19.00
403790	66.00	67.00	1.00	2	VO18191856 - Finalized	21/08/2018	1.890	1.870	1.50	36.90	21.50	6,800.0	0.028	22.00	0.28	4.10	23.00
403791	67.00	68.00	1.00	2	VO18191853 - Finalized	22/08/2018	0.283	0.780	1.20	22.00	22.80	7,290.0	0.003	16.00	0.32	3.10	19.00
403792	68.00	69.00	1.00	2	VO18191853 - Finalized	22/08/2018	1.040	0.510	24.80	75.10	20.10	8,140.0	0.019	20.00	0.22	8.70	31.00
403793	69.00	70.00	1.00	2	VO18191853 - Finalized	22/08/2018	1.170	0.050	1.90	35.10	23.30	9,290.0	0.008	15.00	0.11	5.80	35.00
403794	70.00	71.00	1.00	2	VO18191853 - Finalized	22/08/2018	1.055	0.100	1.50	26.90	22.50	8,900.0	0.021	18.00	0.12	3.40	30.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
403795	71.00	72.00	1.00	2	VO18191853 - Finalized	22/08/2018	0.911	0.090	3.00	16.80	20.90	7,340.0	0.010	15.00	0.12	2.70	22.00
403796	72.00	73.00	1.00	2	VO18191853 - Finalized	22/08/2018	0.214	0.080	7.60	8.60	24.30	8,050.0	0.003	14.00	0.21	3.10	17.00
403797	73.00	74.00	1.00	2	VO18191853 - Finalized	22/08/2018	0.726	0.020	5.10	11.90	21.70	7,190.0	0.006	10.00	0.16	2.30	12.00
403798	74.00	75.00	1.00	2	VO18191853 - Finalized	22/08/2018	0.375	0.040	5.70	22.30	18.45	8,890.0	0.011	28.00	0.39	5.50	28.00
403800	75.00	76.00	1.00	2	VO18191853 - Finalized	22/08/2018	2.330	0.380	10.20	13.50	20.70	12,950.0	0.071	50.00	0.55	11.20	28.00
403801	76.00	77.00	1.00	2	VO18191853 - Finalized	22/08/2018	0.010	0.030	10.70	7.40	22.20	12,600.0	0.017	41.00	0.92	10.60	18.00
403802	77.00	78.00	1.00	2	VO18191853 - Finalized	22/08/2018	0.009	0.020	7.50	12.30	19.90	12,250.0	0.023	79.00	0.79	12.20	22.00
403803	78.00	79.00	1.00	2	VO18191853 - Finalized	22/08/2018	0.001	0.040	0.90	7.90	19.00	17,600.0	0.003	67.00	0.53	10.70	22.00
403804	79.00	80.00	1.00	2	VO18191853 - Finalized	22/08/2018	0.016	0.100	25.40	29.70	19.60	13,650.0	0.022	122.00	1.91	26.70	64.00
403805	80.00	81.00	1.00	2	VO18191853 - Finalized	22/08/2018	0.024	0.030	3.90	19.30	19.60	11,800.0	0.031	98.00	1.12	20.20	50.00
403807	81.00	82.00	1.00	2	VO18191853 - Finalized	22/08/2018	0.430	0.060	12.80	11.30	18.35	11,800.0	0.046	56.00	0.34	8.50	21.00
403808	82.00	83.00	1.00	2	VO18191853 - Finalized	22/08/2018	0.300	0.010	0.30	5.60	15.80	10,900.0	0.016	58.00	0.27	7.20	14.00
403809	83.00	84.00	1.00	2	VO18191853 - Finalized	22/08/2018	0.031	0.020	1.10	7.30	22.70	14,000.0	0.003	97.00	0.39	15.20	19.00
403810	84.00	85.00	1.00	2	VO18191853 - Finalized	22/08/2018	0.001	0.010	1.70	4.00	15.65	10,750.0	0.003	42.00	0.30	6.50	10.00
403811	85.00	86.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.020	6.90	6.40	17.95	12,850.0	0.003	48.00	0.36	9.30	12.00
403812	86.00	87.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.020	1.40	3.80	15.00	11,900.0	0.003	22.00	0.37	6.10	7.00
403813	87.00	88.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.020	2.80	3.60	17.05	11,100.0	0.003	24.00	0.29	7.00	9.00
403814	88.00	89.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.020	8.10	5.70	17.45	10,050.0	0.003	37.00	0.35	8.70	9.00
403815	89.00	90.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.030	8.50	4.20	18.70	10,350.0	0.010	28.00	0.33	7.00	9.00
403816	90.00	91.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.020	11.80	6.20	21.60	11,600.0	0.003	33.00	0.32	8.50	9.00
403817	91.00	92.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.030	3.40	7.40	21.30	11,000.0	0.006	48.00	0.28	10.30	12.00
403818	92.00	93.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.020	3.10	11.60	25.30	14,500.0	0.003	53.00	0.48	15.00	16.00
403820	93.00	94.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.008	0.070	10.40	7.10	19.90	11,650.0	0.008	42.00	0.69	12.60	14.00
403821	94.00	95.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.030	1.70	8.40	15.00	8,770.0	0.012	34.00	1.29	10.20	15.00
403822	95.00	96.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.002	0.030	18.20	5.80	19.75	14,300.0	0.003	42.00	1.31	16.80	23.00
403823	96.00	97.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.050	7.90	7.40	16.15	10,400.0	0.003	30.00	1.69	8.30	20.00
403824	97.00	98.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.030	18.10	5.30	20.20	10,600.0	0.008	50.00	1.59	11.70	29.00
403825	98.00	99.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.110	3.10	16.70	15.65	7,680.0	0.003	27.00	1.20	10.10	14.00
403827	99.00	100.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.030	12.90	3.50	18.60	11,400.0	0.003	36.00	0.73	9.00	12.00
403828	100.00	101.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.002	0.020	16.30	7.00	19.15	13,050.0	0.006	54.00	0.89	15.50	20.00
403829	101.00	102.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.010	1.40	4.90	18.90	12,450.0	0.003	41.00	0.45	10.10	11.00
403830	102.00	103.00	1.00	2	VO18191850 - Finalized	26/08/2018	0.001	0.040	6.80	10.70	18.95	13,850.0	0.021	49.00	0.56	15.30	15.00
403831	103.00	104.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.002	0.080	4.00	7.30	22.40	11,600.0	0.011	40.00	0.29	8.50	11.00
403832	104.00	105.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.002	0.030	4.80	4.80	18.45	9,700.0	0.007	30.00	0.25	6.40	8.00
403833	105.00	106.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.001	0.020	7.20	2.30	17.60	9,830.0	0.006	20.00	0.13	4.00	6.00
403834	106.00	107.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.001	0.040	1.90	7.10	19.60	11,750.0	0.020	44.00	0.23	9.40	10.00
403835	107.00	108.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.001	0.020	0.70	6.40	17.20	12,450.0	0.036	50.00	0.34	9.90	11.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
403836	108.00	109.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.001	0.020	0.50	5.60	15.85	12,650.0	0.028	57.00	0.28	8.70	11.00
403837	109.00	110.25	1.25	2	VO18191847 - Finalized	29/08/2018	0.001	0.050	0.60	9.50	19.35	17,300.0	0.040	77.00	0.56	13.70	21.00
457088	110.25	112.00	1.75	2	VO18191895 - Finalized	24/08/2018	0.001	0.270	4.50	93.10	15.45	1,700.0	0.019	318.00	2.39	90.50	149.00
457090	112.00	114.00	2.00	2	VO18191895 - Finalized	24/08/2018	0.003	0.250	8.50	105.50	11.80	1,200.0	0.022	311.00	2.22	90.60	129.00
457091	114.00	116.00	2.00	2	VO18191895 - Finalized	24/08/2018	0.002	0.140	0.20	32.80	9.17	7,010.0	0.010	149.00	1.87	47.20	156.00
457092	116.00	118.00	2.00	2	VO18191895 - Finalized	24/08/2018	0.003	0.130	0.40	36.80	7.96	5,630.0	0.020	135.00	2.18	44.80	193.00
457093	118.00	119.15	1.15	2	VO18191895 - Finalized	24/08/2018	0.005	0.220	0.70	83.90	6.30	1,500.0	0.112	253.00	5.95	58.00	297.00
457094	119.15	121.00	1.85	2	VO18191895 - Finalized	24/08/2018	0.001	0.100	17.70	97.60	6.74	1,150.0	0.018	258.00	0.92	72.70	115.00
457095	121.00	123.00	2.00	2	VO18191895 - Finalized	24/08/2018	0.001	0.160	19.10	147.50	8.95	1,340.0	0.018	285.00	0.24	172.00	95.00
457097	123.00	125.00	2.00	2	VO18191895 - Finalized	24/08/2018	0.001	0.110	23.50	143.50	9.25	1,440.0	0.022	280.00	0.21	220.00	95.00
457098	125.00	127.00	2.00	2	VO18191895 - Finalized	24/08/2018	0.001	0.060	13.00	133.00	9.22	1,520.0	0.027	318.00	0.20	164.00	95.00
457099	127.00	129.00	2.00	2	VO18191895 - Finalized	24/08/2018	0.001	0.070	5.70	164.00	9.28	1,520.0	0.049	327.00	0.27	123.00	101.00
457100	129.00	131.00	2.00	2	VO18191895 - Finalized	24/08/2018	0.001	0.100	11.50	169.50	9.16	1,450.0	0.028	341.00	0.22	116.50	107.00
457101	131.00	132.40	1.40	2	VO18191891 - Finalized	29/08/2018	0.001	0.060	17.50	102.00	7.30	1,080.0	0.013	253.00	0.22	81.10	82.00
457102	132.40	134.00	1.60	2	VO18191891 - Finalized	29/08/2018	0.001	0.060	4.60	64.60	5.19	440.0	0.011	72.00	0.88	35.00	84.00
457103	134.00	136.00	2.00	2	VO18191891 - Finalized	29/08/2018	0.001	0.080	0.60	57.80	4.68	219.0	0.012	93.00	0.88	38.70	74.00
457104	136.00	138.00	2.00	2	VO18191891 - Finalized	29/08/2018	0.001	0.040	1.10	29.60	4.35	193.0	0.011	88.00	0.45	32.10	75.00
457105	138.00	139.00	1.00	2	VO18191891 - Finalized	29/08/2018	0.001	0.080	0.10	61.10	4.74	164.0	0.011	108.00	1.62	36.10	77.00




## Detailed Log Report

### Hole Number OSK-KAN-18-017

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-18	<b>Collar Dip:</b>	-60.00 <b>Collar Az:</b> 250.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	486 979.00	<b>Length:</b>	253.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	July 30, 2018	<b>East:</b>	6 368 762.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	August 2, 2018	<b>Elev:</b>	110.00	<b>Casing Length:</b>	3.00 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	N <b>Making Water:</b> N
<b>Logger 1:</b>	Cynthia Lee			<b>Multi Shot:</b>	N <b>Section:</b> N.A.
<b>Target:</b>	Chain Lake Antiform - PPR			<b>Claims Title:</b>	2099198 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	4.00	<b>OVB, Overburden</b>					
<b>Comments:</b>							
4.00	26.60	<b>S6, Mudrock</b>	457106	4.00	6.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 5% Py SUB BD; 2% I1N QZ CB 0.05 cm
			457107	6.00	8.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 5% Py SUB BD; 2% I1N QZ CB 0.05 cm
<b>Comments:</b>							
			457108	8.00	10.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 5% Py SUB BD; 2% I1N QZ CB 0.05 cm
			457110	10.00	12.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 5% Py SUB BD; 2% I1N QZ CB 0.05 cm
			457111	12.00	14.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 5% Py SUB BD; 2% I1N QZ CB 0.05 cm
			457112	14.00	16.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 5% Py SUB BD; 2% I1N QZ CB 0.05 cm
			457113	16.00	18.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 5% Py SUB BD; 2% I1N QZ CB 0.05 cm
			457114	18.00	20.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 5% Py SUB BD; 2% I1N QZ CB 0.05 cm
			457115	20.00	22.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 5% Py SUB BD; 2% I1N QZ CB 0.05 cm
			457117	22.00	24.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 5% Py SUB BD; 2% I1N QZ CB 0.05 cm
			457118	24.00	26.00	2.00	S6 GP; 5% Po LA BD 5% Py SUB BD
			457119	26.00	26.60	0.60	S6 GP; Carb-1 Qtz-2; 5% Po LA BD 5% Py SUB BD; 35% I1N QZ AK 10 cm
26.60	29.50	<b>F2, Semi-massive sulphid</b>	457120	26.60	28.00	1.40	F1; Sil-1; 50% Po SJ CTC 1% Py AL VN; 0.5% I1N QZ
			457121	28.00	29.50	1.50	F1; Sil-1; 50% Po SJ CTC 1% Py AL VN; 0.5% I1N QZ
<b>Comments:</b>							

  
 Cynthia Lee, Ing. Jr. OIQ : 5082751

From	To	Lithology	Sample	From	To	Length	Comments
29.50	57.40	S9, Iron formation	403838	29.50	30.00	0.50	S10D; Sil-1 Qtz-1 Ank-2; 5% Po DI PER 1% Po AL VN 2% Py AL VN; 10% I1N QZ AK
<b>Comments:</b>			403840	30.00	31.00	1.00	S10D; Sil-1 Qtz-1 Ank-2; 5% Po DI PER 1% Po AL VN 2% Py AL VN; 10% I1N QZ AK
			403841	31.00	32.00	1.00	S10D; Sil-1 Qtz-1 Ank-2; 5% Po DI PER 1% Po AL VN 2% Py AL VN; 10% I1N QZ AK
			403842	32.00	33.00	1.00	S10D; Sil-1 Qtz-1 Ank-2; 5% Po DI PER 1% Po AL VN 2% Py AL VN; 10% I1N QZ AK
			403843	33.00	34.00	1.00	S10D; Sil-1 Qtz-1 Ank-2; 5% Po DI PER 1% Po AL VN 2% Py AL VN; 10% I1N QZ AK
			403844	34.00	35.00	1.00	S10D; Sil-1 Qtz-1 Ank-2; 5% Po DI PER 1% Po AL VN 2% Py AL VN; 10% I1N QZ AK
			403845	35.00	36.00	1.00	S10D; Sil-1 Qtz-1 Ank-2; 5% Po DI PER 1% Po AL VN 2% Py AL VN; 10% I1N QZ AK
			403847	36.00	37.00	1.00	S10D; Sil-1 Qtz-1 Ank-2; 5% Po DI PER 1% Po AL VN 2% Py AL VN 0.01% As EUH VN; 10% I1N QZ AK
			403848	37.00	38.00	1.00	
			403849	38.00	39.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm
			403850	39.00	40.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm
			555401	40.00	41.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm
			555402	41.00	42.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm
			555403	42.00	43.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm
			555404	43.00	44.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm
		555405	44.00	45.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm	
		555407	45.00	46.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm	
		555408	46.00	47.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm	
		555409	47.00	48.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm	
		555410	48.00	49.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm	
		555411	49.00	50.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm	
		555412	50.00	51.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm	
		555413	51.00	52.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm	
		555414	52.00	53.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm	

From	To	Lithology	Sample	From	To	Length	Comments
			555415	53.00	54.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm
			555416	54.00	55.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm
			555417	55.00	56.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm
			555418	56.00	57.00	1.00	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm
			555420	57.00	57.40	0.40	S9C Ank; Ank-2 Qtz-2 Chl-1 BL-1; 1% Po DI PER 2% Po AL VN 0.5% Py SUB VN; 5% I1N QZ AK 3 cm

From	To	Lithology	Sample	From	To	Length	Comments
57.40	154.60	S6, Mudrock	457122	57.40	59.00	1.60	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB
			457123	59.00	61.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB
<b>Comments:</b>			457124	61.00	63.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB
			457125	63.00	65.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB
			457126	65.00	67.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB
			457127	67.00	69.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB
			457128	69.00	71.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB
			457130	71.00	73.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB
			457131	73.00	75.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB
			457132	75.00	77.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB; FLD 3
			457133	77.00	79.00	2.00	S6 GP; NO ALT; 5% Po AL BD 5% Py SUB BD; 0.5% I1N QZ CB; FLD 3
			457134	79.00	81.00	2.00	S6 GP; NO ALT; 5% Po AL BD 5% Py SUB BD; 0.5% I1N QZ CB; FLD 3
			457135	81.00	83.00	2.00	S6 GP; NO ALT; 5% Po AL BD 5% Py SUB BD; 0.5% I1N QZ CB; FLD 3
			457137	83.00	85.00	2.00	S6 GP; NO ALT; 5% Po AL BD 5% Py SUB BD; 0.5% I1N QZ CB
			457138	85.00	87.00	2.00	S6 GP; 5% Po AL BD 5% Py SUB BD
			457139	87.00	89.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB
			457140	89.00	91.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB
			457141	91.00	93.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB; FLD 5
			457142	93.00	95.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB; FLD 5
			457143	95.00	97.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB; FLD 5
			457144	97.00	99.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB; FLD 5
			457145	99.00	101.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB
			457146	101.00	103.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB
			457147	103.00	105.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po AL BD 5% Py SUB BD; 3% I1N QZ CB
			457148	105.00	107.00	2.00	S6 GP; Carb-1 Qtz-1; 3% I1N QZ CB
			457150	107.00	109.00	2.00	S6 GP; Carb-1 Qtz-1; 1% Po AL BD 1% Py LA BD; 3% I1N QZ CB
			457151	109.00	111.00	2.00	S6 GP; Carb-1 Qtz-1; 1% Po AL BD 1% Py LA BD; 1% I1N QZ CB
			457152	111.00	113.00	2.00	S6 GP; Carb-1 Qtz-1; 1% Po AL BD 1% Py LA BD; 1% I1N QZ CB
			457153	113.00	115.00	2.00	S6 GP; Carb-1 Qtz-1; 1% Po AL BD 1% Py LA BD; 1% I1N QZ CB
			457154	115.00	117.00	2.00	S6 GP; Carb-1 Qtz-1; 1% Po AL BD 1% Py LA BD; 1% I1N QZ CB
			457155	117.00	119.00	2.00	S6 GP; Carb-1 Qtz-1; 1% Po AL BD 1% Py LA BD; 1% I1N QZ CB
			457157	119.00	121.00	2.00	S6 GP; Carb-1 Qtz-1; 1% Po AL BD 1% Py LA BD; 1% I1N QZ CB
			457158	121.00	123.00	2.00	S6 GP; Carb-1 Qtz-1; 1% Po AL BD 1% Py LA BD; 1% I1N QZ CB
			457159	123.00	125.00	2.00	S6 GP; Carb-1 Qtz-1; 1% Po AL BD 1% Py LA BD; 1% I1N QZ CB
			457160	125.00	127.00	2.00	S6 GP; Carb-1 Qtz-1; 1% Po AL BD 1% Py LA BD; 1% I1N QZ CB
			457161	127.00	129.00	2.00	S6 GP; Carb-1 Qtz-1; 1% Po AL BD 1% Py LA BD; 1% I1N QZ CB
			457162	129.00	131.00	2.00	S6 GP; Carb-1 Qtz-1; 1% Po AL BD 1% Py LA BD; 1% I1N QZ CB
			457163	131.00	133.00	2.00	S6 GP; Carb-1 Qtz-1; 1% I1N QZ CB
			457164	133.00	135.00	2.00	S6 GP; Carb-1 Qtz-1; 1% Py ANH BD 1% Py LA BD 1% Po LA BD; 1% I1N QZ CB
			457165	135.00	137.00	2.00	S6 GP; Carb-1 Qtz-1; 1% Py ANH BD 1% Py LA BD 1% Po LA BD; 1% I1N QZ CB
			457166	137.00	139.00	2.00	S6 GP; Carb-1 Qtz-1; 1% I1N QZ CB



From	To	Lithology	Sample	From	To	Length	Comments
			457167	139.00	141.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 3% Py SUB BD; 1% I1N QZ CB
			457168	141.00	143.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 3% Py SUB BD; 1% I1N QZ CB
			457170	143.00	145.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 3% Py SUB BD; 1% I1N QZ CB
			457171	145.00	147.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 3% Py SUB BD; 1% I1N QZ CB
			457172	147.00	149.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 3% Py SUB BD; 1% I1N QZ CB
			457173	149.00	151.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 3% Py SUB BD; 1% I1N QZ CB
			457174	151.00	153.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 3% Py SUB BD; 1% I1N QZ CB
			457175	153.00	154.60	1.60	S6 GP; Carb-1 Qtz-1; 5% Po LA BD 3% Py SUB BD; 1% I1N QZ CB
154.60	185.50	<b>S9, Iron formation</b>	555421	154.60	156.00	1.40	S9C Ank; 3% Po VN CTC 0.5% Py AL VN; 3% I1N QZ AB
			555422	156.00	157.00	1.00	S9C Ank; Chl-2 Ank-2; 1% Po AL VN; 3% I1N QZ AB
			555423	157.00	158.00	1.00	S9C Ank; Chl-2 Ank-2; 1% Po AL VN; 3% I1N QZ AB
			555424	158.00	159.00	1.00	S9C Ank; Chl-2 Ank-2; 1% Po AL VN; 3% I1N QZ AB
			555425	159.00	160.00	1.00	S9C Ank; Chl-2 Ank-2; 1% Po AL VN; 3% I1N QZ AB
			555427	160.00	161.00	1.00	S9C Ank; Chl-2 Ank-2; 1% Po AL VN; 3% I1N QZ AB
			555428	161.00	162.00	1.00	S9C Ank; Chl-2 Qtz-2 Ank-1; 1% Po AL VN; 3% I1N QZ AB
			555429	162.00	163.00	1.00	S9C Ank; Chl-2 Qtz-2 Ank-1; 1% Po AL VN; 3% I1N QZ AB
			555430	163.00	164.00	1.00	S9C Ank; Chl-2 Qtz-2 Ank-1; 1% Po AL VN; 3% I1N QZ AB
			555431	164.00	165.00	1.00	S9C Ank; Chl-3 Qtz-2 Ank-2; 1% Po AL VN; 10% I1N QZ CL
			555432	165.00	166.00	1.00	S9C Ank; Chl-3 Qtz-2 Ank-2; 1% Po AL VN; 10% I1N QZ CL
			555433	166.00	167.00	1.00	S9C Ank; Chl-3 Qtz-2 Ank-2; 1% Po AL VN; 10% I1N QZ CL
			555434	167.00	168.00	1.00	S9C Ank; Chl-3 Qtz-2 Ank-2; 3% Po AL VN 0.5% Py AL VN; 10% I1N QZ CL
			555435	168.00	169.00	1.00	S9C Ank; Chl-3 Qtz-2 Ank-2; 3% Po AL VN 0.5% Py AL VN 0.1% Vg DI VN; 10% I1N QZ CL
			555436	169.00	170.00	1.00	S9C Ank; BL-1 Chl-1 Ank-1 Qtz-1; 1% Po AL VN; 2% I1N AK QZ
			555437	170.00	171.00	1.00	S9C Ank; BL-1 Chl-1 Ank-1 Qtz-1; 1% Po AL VN; 2% I1N AK QZ
			555438	171.00	172.00	1.00	S9C Ank; Chl-3 Chl-1 Ank-2 BL-1
			555440	172.00	173.00	1.00	S9C Ank; Chl-3 Chl-1 Ank-2 BL-1; 3% Po AL VN 0.5% Py AL VN; 15% I1N QZ AK
			555441	173.00	174.00	1.00	S9C Ank; Chl-3 Chl-1 Ank-2 BL-1; 3% Po AL VN 0.5% Py AL VN; 15% I1N QZ AK
			555442	174.00	175.00	1.00	S9C Ank; Chl-3 Chl-1 Ank-2 BL-1
			555443	175.00	176.00	1.00	S9C Ank; Chl-3 Chl-1 Ank-2 BL-1; 1% Po AL VN; 2% I1N QZ AK
			555444	176.00	177.00	1.00	S9C Ank; Chl-3 Chl-1 Ank-2 BL-1; 1% Po AL VN; 2% I1N QZ AK
			555445	177.00	178.00	1.00	
			555447	178.00	179.00	1.00	S9C Sid; Carb-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK
			555448	179.00	180.00	1.00	S9C Sid; Carb-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK
			555449	180.00	181.00	1.00	S9C Sid; Carb-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK
			555450	181.00	182.00	1.00	S9C Sid; Carb-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK
			555451	182.00	183.00	1.00	S9C Sid; Carb-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK
			555452	183.00	184.00	1.00	S9C Sid; Carb-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK
			555453	184.00	185.00	1.00	S9C Sid; Carb-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK
			555454	185.00	185.50	0.50	S9C Sid; Carb-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK

Comments:

From	To	Lithology	Sample	From	To	Length	Comments
185.50	196.00	S6g, Grey Shale	457177	185.50	187.00	1.50	S6g GP; Carb-1 Qtz-1; 1% Po LA VN 0.5% Py SUB VN; 3% I1N QZ CB
			457178	187.00	189.00	2.00	S6g GP; Carb-1 Qtz-1; 1% Po LA VN 0.5% Py SUB VN; 3% I1N QZ CB
			457179	189.00	191.00	2.00	S6g GP; Carb-1 Qtz-1; 1% Po LA VN 0.5% Py SUB VN; 3% I1N QZ CB
			457180	191.00	193.00	2.00	S6g GP; Carb-1 Qtz-1; 1% Po LA VN 0.5% Py SUB VN; 3% I1N QZ CB
			457181	193.00	195.00	2.00	; Carb-1 Qtz-1
			457182	195.00	196.00	1.00	S6g; Carb-1 Qtz-1; 0.1% Po DI CTC; 0.5% I1N QZ
196.00	207.60	I3A, Gabbro	457183	196.00	198.00	2.00	I3A; Carb-1 Qtz-1 Carb-1; 0.5% Po AL VN; 3% I1N QZ CC
			457184	198.00	200.00	2.00	I3A GH; Carb-1 Qtz-1 Carb-1; 0.5% Po AL VN; 3% I1N QZ CC
			457185	200.00	202.00	2.00	I3A GH; Carb-1 Qtz-1 Carb-1; 0.5% Po AL VN; 3% I1N QZ CC
			457186	202.00	204.00	2.00	I3A GH; Carb-1 Qtz-1 Carb-1; 0.5% Po AL VN; 3% I1N QZ CC
			457187	204.00	206.00	2.00	I3A GH; Carb-1 Qtz-1 Carb-1; 0.5% Po AL VN; 3% I1N QZ CC
			457188	206.00	207.60	1.60	I3A GH; Carb-1 Qtz-1 Carb-1; 0.5% Po AL VN; 3% I1N QZ CC
207.60	253.00	S6g, Grey Shale	457190	207.60	209.00	1.40	S6g; Qtz-2 Chl-1; 0.5% Po AL VN; 5% I1N QZ
			457191	209.00	211.00	2.00	; Qtz-2 Chl-1; 0.5% Po AL VN; 5% I1N QZ
			457192	211.00	213.00	2.00	S6g GP; Qtz-2 Chl-1; 0.5% Po AL VN; 5% I1N QZ
			457193	213.00	215.00	2.00	S6g GP; Qtz-2 Chl-1; 0.5% Po AL VN; 5% I1N QZ
			457194	215.00	217.00	2.00	S6g GP; Qtz-2 Chl-1; 0.5% Po AL VN; 5% I1N QZ
			457195	217.00	219.00	2.00	S6g GP; Qtz-2 Chl-1; 0.5% Po AL VN; 5% I1N QZ
			457197	219.00	221.00	2.00	S6g GP; Qtz-2 Chl-1; 0.5% Po AL VN; 5% I1N QZ
			457198	221.00	223.00	2.00	S6g GP; 0.5% Po AL VN
			457199	223.00	225.00	2.00	S6g GP; Qtz-4 Chl-2; 0.5% Po AL VN; 20% I1N QZ; FO 5
			457200	225.00	227.00	2.00	S6g GP; Qtz-4 Chl-2; 0.5% Po AL VN; 20% I1N QZ; FO 5
			457201	227.00	229.00	2.00	S6g GP; 0.5% Po AL VN; FO 5
			457202	229.00	231.00	2.00	S6g GP; Qtz-2 Chl-2; 0.5% Po AL VN; 5% I1N QZ AK; FO 5
			457203	231.00	233.00	2.00	S6g GP; Qtz-2 Chl-2; 0.5% Po AL VN; 5% I1N QZ AK
			457204	233.00	235.00	2.00	S6g GP; Qtz-2 Chl-2; 0.5% Po AL VN; 5% I1N QZ AK
			457205	235.00	237.00	2.00	S6g; Ank-4 Chl-4 Qtz-3; 0.5% Po AL VN; 15% I1N QZ AK
			457206	237.00	239.00	2.00	S6g; 0.5% Po AL VN
			457207	239.00	241.00	2.00	S6g; Ank-1 Chl-2; 0.5% Po AL VN; 5% I1N QZ AK
			457208	241.00	243.00	2.00	S6g; Ank-1 Chl-2; 0.5% Po AL VN; 5% I1N QZ AK
457210	243.00	245.00	2.00	S6g; Ank-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ			
457211	245.00	247.00	2.00	S6g; Ank-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ			
457212	247.00	249.00	2.00	S6g; Ank-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ			
457213	249.00	251.00	2.00	S6g; Ank-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ			
457214	251.00	253.00	2.00	S6g; Ank-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ			

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
1.00	239.60	-59.30	FM	Test Non-OK	
4.00	239.40	-59.40	FM	Test Non-OK	
7.00	239.20	-59.40	FM	Test Non-OK	
10.00	244.40	-59.40	FM	Test Non-OK	
13.00	244.40	-59.40	FM	Test Non-OK	
16.00	250.20	-59.80	FM	Test Non-OK	
19.00	250.90	-59.50	FM	Test Non-OK	
22.00	252.30	-59.50	FM	Test OK-Accept	
25.00	252.90	-59.50	FM	Test OK-Accept	
28.00	265.40	-56.50	FM	Test Non-OK	
31.00	253.00	-59.50	FM	Test OK-Accept	
34.00	253.20	-59.40	FM	Test OK-Accept	
37.00	252.50	-59.50	FM	Test OK-Accept	
40.00	256.10	-59.40	FM	Test Non-OK	
43.00	253.80	-59.00	FM	Test OK-Accept	
46.00	250.00	-59.40	FM	Test Non-OK	
49.00	253.90	-59.40	FM	Test OK-Accept	
52.00	254.50	-59.20	FM	Test OK-Accept	
55.00	253.20	-59.40	FM	Test OK-Accept	
58.00	252.50	-59.30	FM	Test OK-Accept	
61.00	249.60	-59.40	FM	Test Non-OK	
64.00	245.90	-59.40	FM	Test Non-OK	
67.00	251.50	-59.40	FM	Test Non-OK	
70.00	264.40	-59.40	FM	Test Non-OK	
73.00	253.00	-59.30	FM	Test OK-Accept	
76.00	251.50	-59.30	FM	Test Non-OK	
79.00	252.40	-59.10	FM	Test OK-Accept	
82.00	246.90	-59.10	FM	Test Non-OK	
85.00	237.10	-58.70	FM	Test Non-OK	
88.00	246.30	-59.00	FM	Test Non-OK	
91.00	243.40	-59.00	FM	Test Non-OK	
94.00	251.20	-59.10	FM	Test Non-OK	
97.00	250.70	-59.00	FM	Test Non-OK	
100.00	256.50	-59.10	FM	Test Non-OK	
103.00	247.00	-59.10	FM	Test Non-OK	
106.00	256.70	-59.00	FM	Test Non-OK	
109.00	249.70	-59.00	FM	Test Non-OK	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
112.00	250.20	-59.00	FM	Test Non-OK	
115.00	252.40	-59.00	FM	Test OK-Accept	
118.00	248.50	-58.90	FM	Test Non-OK	
121.00	251.60	-58.90	FM	Test OK-Accept	
124.00	237.10	-61.90	FM	Test Non-OK	
127.00	252.20	-58.80	FM	Test Non-OK	
130.00	252.90	-58.80	FM	Test OK-Accept	
133.00	252.30	-58.70	FM	Test Non-OK	
136.00	252.10	-58.70	FM	Test Non-OK	
139.00	253.10	-58.70	FM	Test OK-Accept	
142.00	252.90	-58.70	FM	Test OK-Accept	
145.00	253.50	-58.70	FM	Test OK-Accept	
148.00	253.30	-58.70	FM	Test OK-Accept	
151.00	251.20	-58.80	FM	Test Non-OK	
154.00	253.30	-58.60	FM	Test OK-Accept	
157.00	253.20	-58.60	FM	Test OK-Accept	
160.00	253.10	-58.60	FM	Test OK-Accept	
163.00	253.70	-58.60	FM	Test OK-Accept	
166.00	253.80	-58.50	FM	Test OK-Accept	
169.00	254.00	-58.50	FM	Test OK-Accept	
172.00	254.20	-58.50	FM	Test OK-Accept	
175.00	253.90	-58.50	FM	Test OK-Accept	
178.00	254.30	-58.40	FM	Test OK-Accept	
181.00	269.00	-54.90	FM	Test Non-OK	
184.00	257.90	-57.70	FM	Test Non-OK	
187.00	254.00	-58.40	FM	Test OK-Accept	
190.00	254.30	-58.40	FM	Test OK-Accept	
193.00	254.10	-58.40	FM	Test OK-Accept	
196.00	254.60	-58.40	FM	Test OK-Accept	
199.00	257.70	-57.90	FM	Test Non-OK	
202.00	253.90	-58.50	FM	Test OK-Accept	
205.00	253.60	-58.50	FM	Test OK-Accept	
208.00	253.70	-58.40	FM	Test OK-Accept	
211.00	254.50	-58.10	FM	Test OK-Accept	
214.00	254.10	-58.30	FM	Test OK-Accept	
217.00	254.50	-58.20	FM	Test OK-Accept	
220.00	254.10	-58.30	FM	Test OK-Accept	
223.00	250.30	-58.50	FM	Test Non-OK	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
226.00	301.30	-40.70	FM	Test Non-OK	
229.00	254.60	-58.20	FM	Test OK-Accept	
232.00	254.20	-58.30	FM	Test OK-Accept	
235.00	254.30	-58.30	FM	Test OK-Accept	
238.00	254.30	-58.30	FM	Test OK-Accept	
241.00	254.30	-58.40	FM	Test OK-Accept	
244.00	254.20	-58.40	FM	Test OK-Accept	
247.00	254.10	-58.50	FM	Test OK-Accept	
250.00	254.10	-58.50	FM	Test OK-Accept	
253.00	254.10	-58.50	FM	Test OK-Accept	

Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
4.00	26.60	S6	BD	CS	HJ		S6 GP			BK		1	Aph		60.00	VN	
26.60	29.50	F2	BX	BD	HK		F1			BN		2	FG		34.00	DIF	Massive sulfide in black shale - iron formation contact
29.50	37.50	S9	BD	HK			S10D	95.00	Sulphide	GL		3	FG			VN	
37.50	57.40	S9	BD	HK			S9C Ank	5.00	Sulphide	GL	GM	3	FG		48.00	SHP	
57.40	154.60	S6	BD	HJ	CS		S6 GP			BK		1	Aph				
154.60	177.30	S9	BD	HK	IU		S9C Ank	5.00	Silica	GM		3	FG		55.00	DIF	
177.30	185.50	S9	BD	HJ			S9C Sid	8.00	Silica	GM	GD	3	FG		65.00	DIF	
185.50	194.15	S6g	CS	BD	HJ		S6g GP			BK		1	Aph		60.00	DIF	
194.15	196.00	S6g	BD	CS	HJ		S6g			GM	GN	1	Aph		55.00	DIF	
196.00	198.00	I3A	CS				I3A			VM	GM	2	FG			DIF	
198.00	207.60	I3A	GH	MA			I3A GH			VM	GM	2	MG				SHR
207.60	210.30	S6g	BD	CS	HJ		S6g			GM	VM	2	Aph				DIF
210.30	235.00	S6g	BD	RU	CS		S6g GP			BK	GN	2	Aph				DIF
235.00	243.00	S6g	BD	IU	CS	HK	S6g			GM	VM	2	Aph				DIF
243.00	253.00	S6g	BD	CS	HJ		S6g			GM	VM	2	Aph				NA

**Mineralization Data**

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
4.00	26.60		Po	5.00	LA	BD		Py	5.00	SUB	BD						
26.60	29.50		Po	50.00	SJ	CTC		Py	1.00	AL	VN						
29.50	36.00		Po	5.00	DI	PER		Po	1.00	AL	VN		Py	2.00	AL	VN	
36.00	37.80		Po	5.00	DI	PER		Po	1.00	AL	VN		Py	2.00	AL	VN	
37.80	57.40		Po	1.00	DI	PER		Po	2.00	AL	VN		Py	0.50	SUB	VN	
57.40	106.00		Po	5.00	AL	BD		Py	5.00	SUB	BD						
106.00	132.50		Po	1.00	AL	BD		Py	1.00	LA	BD						
132.50	138.50		Py	1.00	ANH	BD		Py	1.00	LA	BD		Po	1.00	LA	BD	
138.50	154.60		Po	5.00	LA	BD		Py	3.00	SUB	BD						
154.60	156.00		Po	3.00	VN	CTC		Py	0.50	AL	VN						
156.00	167.00		Po	1.00	AL	VN											
167.00	168.00		Po	3.00	AL	VN		Py	0.50	AL	VN						
168.00	169.00		Po	3.00	AL	VN		Py	0.50	AL	VN		Vg	0.10	DI	VN	VG at 168.6 metres
169.00	171.30		Po	1.00	AL	VN											
171.30	174.30		Po	3.00	AL	VN		Py	0.50	AL	VN						
174.30	177.30		Po	1.00	AL	VN											
177.30	185.50		Po	0.50	AL	VN											
185.50	194.15		Po	1.00	LA	VN		Py	0.50	SUB	VN						
194.15	196.00		Po	0.10	DI	CTC											
196.00	253.00		Po	0.50	AL	VN											

Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
4.00	25.60	Carb	1	VN	Qtz	1	VN				
25.60	26.60	Carb	1	VN	Qtz	2	VN				
26.60	29.50	Sil	1	PEN							
29.50	37.80	Sil	1	PEN	Qtz	1	VN	Ank	2	VN	
37.80	57.40	Ank	2	VN	Qtz	2	VN	Chl	1	VN	weak bleaching in vein selvages
57.40	77.00	Carb	1	VN	Qtz	1	VN				
77.00	86.00	NO ALT									
86.00	154.60	Carb	1	VN	Qtz	1	VN				
154.60	155.00	Sil	3	PEN							
155.00	156.00	Ank	2	PEN							
156.00	161.00	Chl	2	VN	Ank	2	VN				
161.00	164.00	Chl	2	VN	Qtz	2	VN	Ank	1	VN	
164.00	169.00	Chl	3	VN	Qtz	2	VN	Ank	2	VN	
169.00	171.00	BL	1	PEN	Chl	1	VN	Ank	1	VN	
171.00	177.30	Chl	3	VN	Chl	1	PEN	Ank	2	VN	
177.30	185.50	Carb	1	RU	Chl	1	DI				
185.50	196.00	Carb	1	VN	Qtz	1	VN				
196.00	207.60	Carb	1	PEN	Qtz	1	VN	Carb	1	VN	
207.60	222.90	Qtz	2	VN	Chl	1	VN				
222.90	227.30	Qtz	4	VN	Chl	2	VN				
227.30	235.00	Qtz	2	VN	Chl	2	VN				
235.00	238.30	Ank	4	VN	Chl	4	VN	Qtz	3		
238.30	243.00	Ank	1	VN	Chl	2	VN				
243.00	253.00	Ank	1	VN	Chl	1	VN				



## Vein Data

From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
4.00	25.60	2.00	0.05	I1N	UNK	Veinlet <5cm	QZ	50.00	CB	50.00						Po	1.00			
25.60	26.60	35.00	10.00	I1N	UNK	Veinlet <5cm	QZ	97.00	AK	3.00						Po	0.50			
26.60	29.50	0.50		I1N	UNK	Veinlet <5cm	QZ	100.00												
29.50	37.80	10.00		I1N	UNK	Veinlet <5cm	QZ	97.00	AK	3.00						Po	2.00	Py	3.00	
37.80	57.40	5.00	3.00	I1N	UNK	Veinlet <5cm	QZ	93.00	AK	5.00	SR	2.00				Po	3.00	Py	1.00	
57.40	77.00	3.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CB	50.00						Po	2.00	Py	1.00	
77.00	86.00	0.50		I1N	UNK	Veinlet <5cm	QZ	50.00	CB	50.00										
86.00	109.00	3.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CB	50.00										
109.00	154.60	1.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CB	50.00										
154.60	164.00	3.00		I1N	UNK	Veinlet <5cm	QZ	93.50	AB	5.00	CL	0.50				Po	1.00			
164.00	169.00	10.00		I1N	UNK	Veinlet <5cm	QZ	89.00	CL	5.00	AK	3.00				Po	3.00			
169.00	171.30	2.00		I1N	UNK	Veinlet <5cm	AK	5.00	QZ	95.00						Po	0.50			
171.30	174.50	15.00		I1N	UNK	Veinlet <5cm	QZ	75.00	AK	10.00	CL	15.00				Po	3.00			
174.50	177.30	2.00		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	5.00										
177.30	185.50	1.00		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	5.00										
185.50	194.15	3.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CB	50.00										
194.15	196.00	0.50		I1N	UNK	Veinlet <5cm	QZ	100.00												
196.00	207.60	3.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00										
207.60	222.90	5.00		I1N	UNK	Veinlet <5cm	QZ	100.00												
222.90	227.30	20.00		I1N	UNK	Vein >5cm	QZ	100.00												
227.30	235.00	5.00		I1N	UNK	Veinlet <5cm	QZ	90.00	AK	5.00	CL	5.00				Po	0.10			
235.00	238.30	15.00		I1N	UNK	Vein >5cm	QZ	70.00	AK	20.00	CL	10.00				Py	0.50			
238.30	243.00	5.00		I1N	UNK	Veinlet <5cm	QZ	93.00	AK	5.00	CL	2.00								
243.00	253.00	1.00		I1N	UNK	Veinlet <5cm	QZ	100.00												

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
74.00	83.00	FLD	3		
90.00	100.00	FLD	5		
100.00	101.00	FLD	5		Tight folding, M-folding
223.00	232.00	FO	5		very strong S2 possibly related to F2 hinge

## Oriented Structure Data

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
7.30	S2		61.00										
14.80	S0		63.00	238.00	250.55	-59.65	-27.07	282.77	0.00	12.77			
17.80	S2		35.00	20.00	251.83	-59.50	-84.06	358.19	0.00	88.19			
18.60	S0		70.00	42.00	252.40	-59.50	-47.10	0.60	0.00	90.60			
20.40	VN		73.00	138.00	252.70	-59.50	-20.89	15.97	0.00	105.97			
21.30			55.00	137.00	254.98	-59.00	-23.34	65.93	0.00	155.93	72.00	ILINE	
21.80	S2		46.00	356.00	257.07	-58.50	-75.45	344.20	0.00	74.20			
24.80	S0		80.00	100.00	259.20	-58.00	-31.66	8.21	0.00	98.21			
25.70	S0		80.00	60.00	255.07	-59.00	-36.92	359.56	0.00	89.56			
28.30	S0		43.00	159.00	253.17	-59.42	-20.85	115.74	0.00	205.74			uncertain line, bottom test did not fit in the one above
29.50	CNT		23.00	182.00	252.97	-59.43	-36.46	166.07	0.00	256.07			uncertain line, bottom test did not fit in the one above
33.80	VN		33.00	58.00	255.72	-59.33	-76.01	32.85	0.00	122.85			
40.80	VN		43.00	35.00	253.25	-59.40	-73.62	9.18	0.00	99.18			
42.60	S0		28.00	292.00	254.30	-59.27	-76.44	286.93	0.00	16.93			
48.20	VN		51.00										
50.40	S0		24.00	288.00	250.57	-59.37	-78.10	277.96	0.00	7.96			
56.80	S0		54.00	288.00	255.80	-59.40	-52.85	301.26	0.00	31.26			
60.80	S0		48.00	277.00	254.90	-59.32	-53.31	288.98	0.00	18.98			
62.30	S2		52.00	312.00	252.25	-59.30	-62.14	311.09	0.00	41.09			
64.40	S0		60.00	270.00	251.80	-59.23	-41.91	293.34	0.00	23.34			
66.50	S0		55.00	290.00	251.48	-59.10	-52.98	299.02	0.00	29.02			
68.80	S0		55.00	285.00	245.27	-59.03	-51.24	289.99	0.00	19.99			
70.20	S0		64.00	255.00	240.37	-58.83	-34.13	281.37	0.00	11.37			
71.00	S0		54.00	295.00	250.90	-59.50	-55.18	300.44	0.00	30.44			
72.80	VN		49.00	270.00	243.23	-58.90	-49.74	273.95	0.00	3.95			
74.90	S0		59.00	230.00	244.85	-59.00	-25.14	266.64	0.00	356.64			
77.10			57.00	336.00	247.30	-59.05	-62.40	322.82	0.00	52.82	100.00	FAXIS	
77.10	AxialPlane		57.00	336.00	247.30	-59.05	-62.40	322.82	0.00	52.82			
77.30			60.00	340.00	247.30	-59.05	-59.93	325.90	0.00	55.90	116.00	FAXIS	
77.30	AxialPlane		60.00	340.00	247.30	-59.05	-59.93	325.90	0.00	55.90			
78.00	S0		33.00	340.00	248.60	-59.07	-86.44	321.90	0.00	51.90			
78.20	S0		66.00	300.00	249.90	-59.08	-47.21	311.22	0.00	41.22			
81.10	S0		70.00	20.00	251.67	-59.02	-50.20	350.43	0.00	80.43			
82.20	S0		66.00	360.00	253.60	-59.05	-54.95	343.60	0.00	73.60			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
82.60			77.00	326.00	254.57	-59.07	-42.28	333.79	0.00	63.79	83.00	FAXIS	
82.60	AxialPlane		77.00	326.00	254.57	-59.07	-42.28	333.79	0.00	63.79			
83.00			60.00	315.00	254.57	-59.07	-55.87	319.28	0.00	49.28	118.00	FAXIS	
83.00	AxialPlane		60.00	315.00	254.57	-59.07	-55.87	319.28	0.00	49.28			
83.30			72.00	325.00	255.53	-59.08	-46.70	331.44	0.00	61.44	135.00	FAXIS	
83.30	AxialPlane		72.00	325.00	255.53	-59.08	-46.70	331.44	0.00	61.44			
84.10	S0		75.00	230.00	253.33	-59.10	-23.90	314.03	0.00	44.03			
88.70			62.00	296.00	255.53	-59.00	-49.40	311.77	0.00	41.77	124.00	FAXIS	
88.70	AxialPlane		62.00	296.00	255.53	-59.00	-49.40	311.77	0.00	41.77			
89.50			62.00	322.00	254.37	-59.00	-55.51	323.84	0.00	53.84	103.00	FAXIS	
89.50	AxialPlane		62.00	322.00	254.37	-59.00	-55.51	323.84	0.00	53.84			
90.80	S0		56.00	302.00	250.87	-59.00	-56.08	306.01	0.00	36.01			
96.80	S0		63.00	328.00	251.10	-58.97	-55.60	324.15	0.00	54.15			
98.50			68.00	318.00	249.15	-58.92	-49.43	319.88	0.00	49.88	2.00	FAXIS	
98.50	AxialPlane		68.00	318.00	249.15	-58.92	-49.43	319.88	0.00	49.88			
100.40	S0		45.00	0.00	250.57	-58.90	-76.10	340.57	0.00	70.57			
102.80	S0		72.00	288.00	241.93	-60.90	-38.32	303.64	0.00	33.64			
107.40			72.00	176.00	252.55	-58.80	-13.30	347.93	0.00	77.93	140.00	FAXIS	
107.40	AxialPlane		72.00	176.00	252.55	-58.80	-13.30	347.93	0.00	77.93			
110.90	S0		40.00										
112.10			60.00	16.00	252.20	-58.70	-60.64	351.30	0.00	81.30	100.00	FAXIS	
112.10	AxialPlane		60.00	16.00	252.20	-58.70	-60.64	351.30	0.00	81.30			
112.30			57.00	11.00	252.20	-58.70	-63.97	348.84	0.00	78.84	98.00	FAXIS	
112.30	AxialPlane		57.00	11.00	252.20	-58.70	-63.97	348.84	0.00	78.84			
115.10	S0		72.00	322.00	252.77	-58.70	-46.68	327.61	0.00	57.61			
117.90	S0		70.00	304.00	252.90	-59.50	-44.55	319.06	0.00	49.06			
125.10	S2		50.00	326.00	251.90	-58.77	-67.75	319.05	0.00	49.05			
126.00	S0		52.00	224.00	251.55	-58.78	-25.39	255.52	0.00	345.52			
127.00	S0		71.00	302.00	251.90	-58.73	-44.06	318.51	0.00	48.51			
130.00	S0		56.00	240.00	253.25	-58.60	-31.43	275.01	0.00	5.01			
135.70			52.00	358.00	253.60	-58.60	-69.39	342.28	0.00	72.28	97.00	FAXIS	
135.70	AxialPlane		52.00	358.00	253.60	-58.60	-69.39	342.28	0.00	72.28			
137.70	S0		68.00										
139.60	S0		35.00	110.00	253.90	-58.50	-50.55	69.38	0.00	159.38			
142.50	S0		70.00	264.00	254.10	-58.50	-34.93	307.65	0.00	37.65			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
145.30	S0		44.00	350.00	254.00	-58.50	-77.16	336.64	0.00	66.64			
148.90	S0		53.00	320.00	256.75	-57.82	-64.51	321.37	0.00	51.37			
150.20	S2		38.00	130.00	264.10	-56.07	-37.48	91.33	0.00	181.33			
151.10	S0		80.00	23.00	267.15	-55.37	-43.99	2.76	0.00	92.76			
151.30	S2		52.00	94.00	267.15	-55.37	-47.72	53.26	0.00	143.26			
154.20	S0		82.00	227.00	256.60	-57.93	-27.18	333.72	0.00	63.72			
154.60	CNT		70.00	144.00	255.95	-58.05	-19.31	23.40	0.00	113.40			
156.40	VN		14.00	57.00	254.05	-58.40	-85.94	218.72	0.00	308.72			
156.90	S0		70.00	258.00	254.10	-58.40	-33.11	306.33	0.00	36.33			
164.40	S0		50.00										
168.60	VN		23.00									VG	
172.50	VN		23.00	54.00	253.65	-58.45	-87.14	31.86	0.00	121.86			
178.10	S0		68.00	239.00	254.17	-58.27	-27.12	299.39	0.00	29.39			
181.20	S0		69.00	258.00	254.43	-58.22	-33.61	305.14	0.00	35.14			
185.50	CNT		65.00	245.00	251.57	-58.43	-30.04	291.64	0.00	21.64			
187.60	S0		70.00	269.00	284.30	-46.63	-46.59	346.22	0.00	76.22			
193.00	S2		33.00	348.00	254.33	-58.27	-88.18	334.29	0.00	64.29			
194.50	S0		49.00	236.00	254.23	-58.30	-33.40	263.06	0.00	353.06			
204.50	VN		44.00	0.00	254.17	-58.43	-77.57	344.17	0.00	74.17			
207.60	CNT		60.00										
211.70	S0		80.00	311.00	254.10	-58.50	-38.72	332.01	0.00	62.01			
212.70	VN		31.00	348.00	254.10	-58.50	-89.94	333.83	0.00	63.83			
212.80	S2		50.00	2.00	254.10	-58.50	-71.49	345.46	0.00	75.46			
213.60	S0		75.00	290.00	254.10	-58.50	-38.98	321.36	0.00	51.36			
219.30	S2		68.00	13.00	254.10	-58.50	-53.14	350.15	0.00	80.15			
220.50	S0		60.00	171.00	254.10	-58.50	-4.84	52.21	0.00	142.21			
222.30	S0		54.00	348.00	254.10	-58.50	-67.08	336.48	0.00	66.48			
226.30			50.00	1.00	254.10	-58.50	-71.50	344.78	0.00	74.78	120.00	CLINE	
228.00	S0		43.00	180.00	254.10	-58.50	-15.50	164.10	0.00	254.10			
228.30	S2		54.00	348.00	254.10	-58.50	-67.08	336.48	0.00	66.48			
232.40	S2		53.00	98.00	254.10	-58.50	-43.56	43.97	0.00	133.97			
233.50	S0		27.00										
238.90	S0		25.00	170.00	254.10	-58.50	-34.24	147.86	0.00	237.86			
239.90	S0		55.00	235.00	254.10	-58.50	-29.50	271.53	0.00	1.53			
242.00	S0		56.00	15.00	254.10	-58.50	-64.87	353.30	0.00	83.30			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
244.20	S0		65.00	235.00	254.10	-58.50	-25.92	291.73	0.00	21.73			
246.80	S0		57.00										
248.40	S0		79.00										
249.70	S0		78.00										
250.40	S0		80.00	180.00	254.10	-58.50	-21.50	344.10	0.00	74.10			
252.90	S0		60.00	285.00	254.10	-58.50	-47.87	303.47	0.00	33.47			

Sample Data - ASSAY

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457106	4.00	6.00	2.00	2	VO18191891 - Finalized	29/08/2018	0.002	0.260	15.10	74.80	6.89	31.0	0.196	173.00	11.20	83.30	432.00
457107	6.00	8.00	2.00	2	VO18191891 - Finalized	29/08/2018	0.002	0.300	7.00	94.70	7.31	150.0	0.182	171.00	10.95	95.10	442.00
457108	8.00	10.00	2.00	2	VO18191891 - Finalized	29/08/2018	0.004	0.280	21.40	96.00	8.37	125.0	0.221	164.00	11.15	105.00	605.00
457110	10.00	12.00	2.00	2	VO18191891 - Finalized	29/08/2018	0.007	0.290	2.30	93.20	6.33	57.0	0.263	157.00	11.30	89.90	745.00
457111	12.00	14.00	2.00	2	VO18191891 - Finalized	29/08/2018	0.006	0.280	4.50	90.40	7.09	40.0	0.395	190.00	12.20	101.00	1 240.00
457112	14.00	16.00	2.00	2	VO18191891 - Finalized	29/08/2018	0.005	0.290	9.40	88.70	7.12	62.0	0.256	162.00	10.55	98.10	680.00
457113	16.00	18.00	2.00	2	VO18191891 - Finalized	29/08/2018	0.004	0.260	9.70	93.40	7.37	51.0	0.168	179.00	14.05	95.90	546.00
457114	18.00	20.00	2.00	2	VO18191891 - Finalized	29/08/2018	0.006	0.290	14.50	107.50	9.58	161.0	0.165	163.00	11.55	112.00	518.00
457115	20.00	22.00	2.00	2	VO18191891 - Finalized	29/08/2018	0.007	0.280	50.20	102.50	10.70	101.0	0.239	164.00	11.80	114.50	514.00
457117	22.00	24.00	2.00	2	VO18191891 - Finalized	29/08/2018	0.015	0.380	26.00	114.50	10.15	87.0	0.468	210.00	13.30	128.00	1 350.00
457118	24.00	26.00	2.00	2	VO18191891 - Finalized	29/08/2018	0.049	0.650	79.70	95.90	15.20	88.0	0.501	206.00	14.50	118.50	578.00
457119	26.00	26.60	0.60	2	VO18191891 - Finalized	29/08/2018	0.066	0.770	83.60	90.20	13.10	185.0	0.376	134.00	20.90	75.00	343.00
457120	26.60	28.00	1.40	2	VO18191891 - Finalized	29/08/2018	0.044	1.640	1.00	405.00	40.30	16.0	0.240	55.00	12.05	329.00	491.00
457121	28.00	29.50	1.50	2	VO18191885 - Finalized	29/08/2018	0.024	1.030	0.90	359.00	31.80	168.0	0.133	94.00	14.90	245.00	186.00
403838	29.50	30.00	0.50	2	VO18191847 - Finalized	29/08/2018	0.004	0.140	5.40	83.80	9.72	780.0	0.018	31.00	1.26	34.70	34.00
403840	30.00	31.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.004	0.140	1.00	86.90	10.90	2,800.0	0.013	18.00	1.17	39.80	23.00
403841	31.00	32.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.001	0.180	0.70	99.30	13.85	4,940.0	0.013	14.00	1.27	47.40	25.00
403842	32.00	33.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.007	0.340	0.80	171.50	21.00	6,160.0	0.013	13.00	1.14	101.00	36.00
403843	33.00	34.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.002	0.200	1.20	100.00	14.75	4,880.0	0.008	25.00	0.45	44.40	39.00
403844	34.00	35.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.009	0.450	602.00	283.00	27.90	7,780.0	0.022	22.00	0.68	134.00	56.00
403845	35.00	36.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.008	0.320	759.00	164.50	21.00	7,110.0	0.032	37.00	0.47	81.60	53.00
403847	36.00	37.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.007	0.340	422.00	160.00	21.10	6,420.0	0.027	27.00	0.22	85.80	51.00
403848	37.00	38.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.002	0.230	48.60	101.00	17.65	5,670.0	0.009	11.00	0.18	52.50	37.00
403849	38.00	39.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.005	0.150	4.90	55.00	20.10	7,100.0	0.016	17.00	0.16	20.00	43.00
403850	39.00	40.00	1.00	2	VO18191847 - Finalized	29/08/2018	0.002	0.150	16.40	52.30	23.50	6,830.0	0.009	15.00	0.63	19.20	36.00
555401	40.00	41.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.001	0.050	7.00	15.20	17.05	4,740.0	0.009	11.00	0.41	8.90	17.00
555402	41.00	42.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.002	0.070	0.50	33.10	18.50	6,290.0	0.005	10.00	0.70	16.00	29.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
555403	42.00	43.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.001	0.005	4.80	1.60	20.60	8,140.0	0.003	12.00	0.36	3.30	16.00
555404	43.00	44.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.007	0.010	8.40	1.30	22.40	9,390.0	0.003	14.00	0.42	4.40	10.00
555405	44.00	45.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.003	0.080	1.80	12.20	19.65	7,650.0	0.007	36.00	0.59	10.30	26.00
555407	45.00	46.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.038	0.020	0.30	10.80	23.40	9,640.0	0.005	44.00	0.98	5.40	30.00
555408	46.00	47.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.001	0.010	0.40	3.40	20.50	8,220.0	0.003	26.00	0.42	3.00	13.00
555409	47.00	48.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.205	0.020	2.80	6.00	25.40	7,730.0	0.003	26.00	0.35	3.80	15.00
555410	48.00	49.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.087	0.020	0.60	7.80	23.80	6,390.0	0.003	39.00	0.49	4.40	21.00
555411	49.00	50.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.058	0.020	114.00	10.00	20.50	6,140.0	0.007	30.00	0.24	4.20	19.00
555412	50.00	51.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.006	0.130	70.20	63.10	23.50	7,080.0	0.003	39.00	0.46	21.70	41.00
555413	51.00	52.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.002	0.100	0.80	58.80	21.40	5,720.0	0.006	22.00	0.26	24.60	29.00
555414	52.00	53.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.001	0.010	0.60	2.80	21.60	6,210.0	0.003	21.00	0.28	2.80	13.00
555415	53.00	54.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.002	0.020	0.30	4.80	15.55	4,360.0	0.003	28.00	0.45	4.00	12.00
555416	54.00	55.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.016	0.030	2.40	5.30	18.05	5,330.0	0.003	14.00	0.52	3.60	14.00
555417	55.00	56.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.001	0.020	3.10	4.80	16.70	4,500.0	0.005	13.00	0.25	2.90	12.00
555418	56.00	57.00	1.00	2	VO18191842 - Finalized	29/08/2018	0.001	0.040	5.70	13.90	9.49	2,790.0	0.003	37.00	1.22	7.80	10.00
555420	57.00	57.40	0.40	2	VO18191842 - Finalized	29/08/2018	0.001	0.170	10.30	86.60	13.30	2,450.0	0.015	127.00	9.66	42.90	34.00
457122	57.40	59.00	1.60	2	VO18191885 - Finalized	29/08/2018	0.063	1.310	123.00	103.50	19.75	433.0	0.274	123.00	15.20	94.60	395.00
457123	59.00	61.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.048	1.040	154.50	109.00	20.60	302.0	0.469	139.00	19.35	117.50	721.00
457124	61.00	63.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.032	0.770	116.50	146.50	16.15	370.0	0.331	192.00	16.15	164.50	776.00
457125	63.00	65.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.009	0.430	57.40	137.00	10.70	236.0	0.175	180.00	12.55	134.50	504.00
457126	65.00	67.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.026	0.870	117.00	168.50	16.70	98.0	0.333	215.00	15.85	202.00	822.00
457127	67.00	69.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.034	1.090	147.00	141.00	20.00	290.0	0.479	172.00	19.10	159.50	808.00
457128	69.00	71.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.012	0.630	65.50	129.00	10.75	156.0	0.259	218.00	13.30	147.00	862.00
457130	71.00	73.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.003	0.320	31.40	150.50	9.04	126.0	0.163	162.00	10.00	130.50	801.00
457131	73.00	75.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.004	0.400	58.50	126.50	10.95	97.0	0.176	161.00	10.30	123.00	459.00
457132	75.00	77.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.005	0.500	49.00	120.50	9.89	99.0	0.215	193.00	12.55	120.50	656.00
457133	77.00	79.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.012	0.670	74.00	124.50	11.35	233.0	0.287	201.00	16.30	142.50	547.00
457134	79.00	81.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.016	0.770	92.40	107.50	12.35	229.0	0.390	251.00	21.00	141.00	780.00
457135	81.00	83.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.028	1.170	130.50	119.00	14.55	101.0	0.505	301.00	23.90	168.50	1 000.00
457137	83.00	85.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.029	1.230	140.50	138.00	15.65	414.0	0.587	302.00	28.10	166.50	1 480.00
457138	85.00	87.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.016	0.870	105.00	152.00	13.70	576.0	0.539	265.00	25.70	143.00	1 270.00
457139	87.00	89.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.016	0.830	91.80	139.50	12.45	559.0	0.367	235.00	21.30	137.50	758.00
457140	89.00	91.00	2.00	2	VO18191885 - Finalized	29/08/2018	0.018	0.990	109.50	175.50	14.25	484.0	0.444	323.00	31.80	169.50	1 020.00
457141	91.00	93.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.002	0.320	35.40	174.50	9.27	91.0	0.188	204.00	10.90	133.50	772.00
457142	93.00	95.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.001	0.270	22.60	252.00	9.45	45.0	0.182	193.00	10.30	142.00	975.00
457143	95.00	97.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.001	0.260	34.00	335.00	12.20	75.0	0.176	179.00	8.91	177.50	966.00
457144	97.00	99.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.001	0.330	49.90	167.00	9.16	70.0	0.196	202.00	11.15	133.50	984.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457145	99.00	101.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.006	0.600	68.90	242.00	13.10	259.0	0.303	330.00	24.70	174.50	1 100.00
457146	101.00	103.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.002	0.380	54.00	257.00	11.65	104.0	0.163	189.00	11.55	153.00	629.00
457147	103.00	105.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.002	0.400	51.60	180.00	9.77	121.0	0.134	184.00	12.35	132.50	462.00
457148	105.00	107.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.004	0.450	59.20	200.00	9.59	129.0	0.190	154.00	12.70	134.50	555.00
457150	107.00	109.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.025	0.990	145.50	104.50	12.45	313.0	0.647	424.00	37.20	142.00	1 170.00
457151	109.00	111.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.031	1.230	236.00	127.00	14.75	558.0	0.934	704.00	65.90	210.00	1 670.00
457152	111.00	113.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.025	1.230	212.00	152.00	15.35	482.0	0.860	675.00	66.00	217.00	1 530.00
457153	113.00	115.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.036	1.400	281.00	142.00	15.70	340.0	1.005	874.00	79.80	246.00	1 680.00
457154	115.00	117.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.035	1.460	259.00	173.50	15.00	712.0	0.969	1 030.00	88.50	292.00	2 310.00
457155	117.00	119.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.031	1.280	210.00	172.00	14.30	581.0	0.893	755.00	61.10	227.00	1 600.00
457157	119.00	121.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.018	0.950	118.00	133.50	12.75	201.0	0.516	289.00	24.70	140.50	1 040.00
457158	121.00	123.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.009	0.760	58.90	126.50	10.05	69.0	0.251	208.00	12.15	116.00	402.00
457159	123.00	125.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.010	0.730	53.80	118.50	10.70	95.0	0.228	203.00	12.80	124.50	634.00
457160	125.00	127.00	2.00	2	VO18191883 - Finalized	29/08/2018	0.005	0.560	34.10	120.00	10.25	300.0	0.134	166.00	9.68	113.50	253.00
457161	127.00	129.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.001	0.450	6.60	152.00	10.85	307.0	0.069	129.00	8.37	127.50	353.00
457162	129.00	131.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.002	0.340	9.00	102.50	7.68	197.0	0.118	141.00	9.80	85.90	575.00
457163	131.00	133.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.002	0.370	84.00	80.50	11.85	518.0	0.069	96.00	6.20	82.80	271.00
457164	133.00	135.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.001	0.430	77.70	90.40	13.10	485.0	0.072	95.00	7.06	103.00	286.00
457165	135.00	137.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.001	0.320	13.40	93.90	8.48	153.0	0.087	132.00	9.17	84.30	369.00
457166	137.00	139.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.001	0.350	45.50	90.00	10.45	488.0	0.085	112.00	7.49	90.40	352.00
457167	139.00	141.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.001	0.300	17.80	92.70	7.94	258.0	0.125	149.00	11.40	93.40	646.00
457168	141.00	143.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.003	0.340	26.40	126.00	8.76	333.0	0.192	156.00	10.70	120.50	672.00
457170	143.00	145.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.003	0.430	14.00	221.00	12.35	539.0	0.125	167.00	10.30	203.00	741.00
457171	145.00	147.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.008	0.540	52.20	184.00	10.90	39.0	0.336	223.00	13.50	178.00	1 330.00
457172	147.00	149.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.017	0.630	76.00	113.00	11.00	31.0	0.293	233.00	14.30	177.00	922.00
457173	149.00	151.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.014	0.480	66.80	99.10	9.21	33.0	0.248	236.00	13.25	153.50	637.00
457174	151.00	153.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.036	1.050	147.00	147.50	19.15	173.0	0.650	201.00	18.80	160.50	1 210.00
457175	153.00	154.60	1.60	2	VO18191877 - Finalized	29/08/2018	0.053	1.270	142.00	197.00	23.00	882.0	0.768	115.00	17.05	103.50	874.00
555421	154.60	156.00	1.40	2	VO18191836 - Finalized	29/08/2018	0.001	0.070	2.80	35.50	14.10	4,140.0	0.007	22.00	1.15	11.90	25.00
555422	156.00	157.00	1.00	2	VO18191836 - Finalized	29/08/2018	0.045	0.010	0.70	2.90	16.80	5,030.0	0.003	13.00	0.27	2.60	15.00
555423	157.00	158.00	1.00	2	VO18191836 - Finalized	29/08/2018	1.450	0.030	0.50	3.30	18.15	5,180.0	0.020	16.00	0.27	2.90	15.00
555424	158.00	159.00	1.00	2	VO18191836 - Finalized	29/08/2018	0.058	0.005	1.30	2.10	22.40	6,100.0	0.003	27.00	0.40	3.60	9.00
555425	159.00	160.00	1.00	2	VO18191836 - Finalized	29/08/2018	0.001	0.010	2.50	2.20	22.80	7,070.0	0.006	27.00	0.41	4.20	7.00
555427	160.00	161.00	1.00	2	VO18191836 - Finalized	29/08/2018	0.003	0.010	4.10	3.20	20.80	9,160.0	0.008	32.00	1.00	6.70	10.00
555428	161.00	162.00	1.00	2	VO18191836 - Finalized	29/08/2018	0.001	0.010	17.80	3.60	19.25	8,870.0	0.003	32.00	0.79	6.30	7.00
555429	162.00	163.00	1.00	2	VO18191836 - Finalized	29/08/2018	0.001	0.010	1.50	3.70	23.70	11,100.0	0.003	46.00	1.12	8.40	7.00
555430	163.00	164.00	1.00	2	VO18191836 - Finalized	29/08/2018	0.003	0.010	10.70	2.10	23.70	11,750.0	0.003	29.00	1.05	6.30	6.00



Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
555431	164.00	165.00	1.00	2	VO18191836 - Finalized	29/08/2018	0.849	0.020	1.10	5.00	24.50	7,430.0	0.007	21.00	0.18	3.70	19.00
555432	165.00	166.00	1.00	2	VO18191836 - Finalized	29/08/2018	0.616	0.010	2.00	2.60	26.00	9,080.0	0.008	11.00	0.11	2.80	18.00
555433	166.00	167.00	1.00	2	VO18191836 - Finalized	29/08/2018	0.013	0.005	0.60	1.00	32.10	10,950.0	0.003	23.00	0.05	1.80	14.00
555434	167.00	168.00	1.00	2	VO18191836 - Finalized	29/08/2018	0.092	0.005	0.50	2.70	28.80	9,030.0	0.007	16.00	0.08	2.50	22.00
555435	168.00	169.00	1.00	2	VO18191836 - Finalized	29/08/2018	1.545	0.050	0.40	7.60	30.90	6,690.0	0.343	9.00	0.03	1.20	23.00
555436	169.00	170.00	1.00	2	VO18191836 - Finalized	29/08/2018	0.003	0.010	0.20	0.80	29.60	6,170.0	0.003	10.00	0.08	1.00	11.00
555437	170.00	171.00	1.00	2	VO18191836 - Finalized	29/08/2018	0.024	0.010	0.20	1.90	24.40	5,680.0	0.003	8.00	0.09	1.10	13.00
555438	171.00	172.00	1.00	2	VO18191836 - Finalized	29/08/2018	1.755	0.370	0.60	6.10	23.30	6,590.0	0.011	12.00	0.09	1.00	28.00
555440	172.00	173.00	1.00	2	VO18191836 - Finalized	29/08/2018	0.727	0.050	2.40	7.20	24.80	6,990.0	0.102	19.00	0.06	1.40	38.00
555441	173.00	174.00	1.00	2	VO18203462 - Finalized	10/09/2018	1.085	0.030	1.40	6.50	27.10	8,110.0	0.022	12.00	0.55	1.50	34.00
555442	174.00	175.00	1.00	2	VO18203462 - Finalized	10/09/2018	0.090	0.030	0.50	3.80	26.30	8,240.0	0.007	11.00	0.33	1.00	27.00
555443	175.00	176.00	1.00	2	VO18203462 - Finalized	10/09/2018	0.143	0.010	0.30	3.70	18.40	6,160.0	0.011	8.00	0.62	1.20	18.00
555444	176.00	177.00	1.00	2	VO18203462 - Finalized	10/09/2018	2.490	0.190	5.60	4.90	24.50	7,350.0	0.027	8.00	0.62	1.50	16.00
555445	177.00	178.00	1.00	2	VO18203462 - Finalized	10/09/2018	0.002	0.020	18.70	4.90	21.90	12,150.0	0.003	38.00	1.00	10.20	12.00
555447	178.00	179.00	1.00	2	VO18203462 - Finalized	10/09/2018	0.001	0.020	5.90	5.90	18.95	12,800.0	0.003	35.00	0.96	8.80	11.00
555448	179.00	180.00	1.00	2	VO18203462 - Finalized	10/09/2018	0.001	0.020	9.50	6.60	16.55	10,500.0	0.003	33.00	0.74	8.60	11.00
555449	180.00	181.00	1.00	2	VO18203462 - Finalized	10/09/2018	0.206	0.030	10.10	8.80	16.70	11,950.0	0.005	50.00	1.35	12.40	16.00
555450	181.00	182.00	1.00	2	VO18203462 - Finalized	10/09/2018	0.001	0.020	1.50	9.30	17.65	10,850.0	0.006	33.00	1.04	8.90	11.00
555451	182.00	183.00	1.00	2	VO18203462 - Finalized	10/09/2018	0.001	0.020	2.80	8.30	21.00	10,900.0	0.007	43.00	1.23	9.30	11.00
555452	183.00	184.00	1.00	2	VO18203462 - Finalized	10/09/2018	0.001	0.010	0.50	6.10	19.00	10,800.0	0.003	45.00	1.02	8.20	10.00
555453	184.00	185.00	1.00	2	VO18203462 - Finalized	10/09/2018	0.001	0.020	0.60	6.40	19.20	11,950.0	0.033	47.00	1.00	9.10	12.00
555454	185.00	185.50	0.50	2	VO18203462 - Finalized	10/09/2018	0.001	0.010	0.40	4.70	14.55	13,550.0	0.017	42.00	1.26	10.00	13.00
457177	185.50	187.00	1.50	2	VO18191877 - Finalized	29/08/2018	0.002	0.250	0.80	27.70	16.85	7,240.0	0.020	184.00	3.30	45.40	105.00
457178	187.00	189.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.004	0.420	0.90	31.00	13.55	1,060.0	0.017	218.00	3.47	56.90	117.00
457179	189.00	191.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.005	0.330	1.00	57.90	12.00	997.0	0.032	257.00	4.12	71.50	154.00
457180	191.00	193.00	2.00	2	VO18191877 - Finalized	29/08/2018	0.005	0.230	0.30	58.50	7.16	861.0	0.061	253.00	4.09	57.30	280.00
457181	193.00	195.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.004	0.150	0.60	82.90	6.22	553.0	0.057	220.00	4.61	50.70	297.00
457182	195.00	196.00	1.00	2	VO18191874 - Finalized	29/08/2018	0.001	0.010	8.60	31.70	4.97	446.0	0.003	127.00	0.64	38.30	79.00
457183	196.00	198.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.001	0.150	49.40	154.00	8.52	1,360.0	0.037	308.00	0.20	117.50	95.00
457184	198.00	200.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.001	0.110	45.60	139.50	8.21	1,320.0	0.018	260.00	0.18	182.50	85.00
457185	200.00	202.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.001	0.100	27.80	154.50	8.34	1,340.0	0.020	283.00	0.20	168.50	88.00
457186	202.00	204.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.001	0.080	23.60	137.50	8.14	1,270.0	0.026	288.00	0.22	120.50	86.00
457187	204.00	206.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.002	0.100	55.00	155.00	8.82	1,290.0	0.019	323.00	0.19	128.50	97.00
457188	206.00	207.60	1.60	2	VO18191874 - Finalized	29/08/2018	0.001	0.090	43.20	162.50	8.80	1,300.0	0.029	322.00	0.18	121.00	99.00
457190	207.60	209.00	1.40	2	VO18191874 - Finalized	29/08/2018	0.001	0.020	5.40	34.20	5.95	649.0	0.003	104.00	0.24	36.10	57.00
457191	209.00	211.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.001	0.060	2.60	34.70	4.12	259.0	0.009	64.00	0.43	31.10	63.00
457192	211.00	213.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.001	0.070	1.10	39.30	4.23	222.0	0.006	72.00	0.59	32.80	67.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457193	213.00	215.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.001	0.050	0.30	49.10	4.48	197.0	0.006	96.00	0.83	35.50	81.00
457194	215.00	217.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.021	0.300	0.20	66.50	4.39	168.0	0.007	109.00	1.51	38.00	72.00
457195	217.00	219.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.001	0.090	0.80	70.20	4.27	173.0	0.010	109.00	1.98	38.10	69.00
457197	219.00	221.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.001	0.060	0.30	47.20	4.62	187.0	0.010	93.00	0.72	32.70	71.00
457198	221.00	223.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.001	0.040	0.10	37.30	5.31	205.0	0.008	82.00	0.50	33.10	78.00
457199	223.00	225.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.001	0.070	1.00	34.30	4.63	194.0	0.018	67.00	0.30	30.80	68.00
457200	225.00	227.00	2.00	2	VO18191874 - Finalized	29/08/2018	0.001	0.030	1.10	13.70	2.17	133.0	0.012	106.00	1.50	13.90	29.00
457201	227.00	229.00	2.00	2	VO18191871 - Finalized	29/08/2018	0.004	0.250	7.60	51.30	2.88	422.0	0.021	113.00	0.61	25.00	43.00
457202	229.00	231.00	2.00	2	VO18191871 - Finalized	29/08/2018	0.001	0.050	1.70	71.30	5.65	391.0	0.007	119.00	0.39	39.10	76.00
457203	231.00	233.00	2.00	2	VO18191871 - Finalized	29/08/2018	0.001	0.040	4.90	48.70	5.70	357.0	0.003	117.00	0.61	36.00	79.00
457204	233.00	235.00	2.00	2	VO18191871 - Finalized	29/08/2018	0.001	0.050	10.90	45.20	5.50	412.0	0.003	148.00	0.72	46.00	79.00
457205	235.00	237.00	2.00	2	VO18191871 - Finalized	29/08/2018	0.001	0.020	24.00	32.00	6.55	889.0	0.014	218.00	0.65	59.20	73.00
457206	237.00	239.00	2.00	2	VO18191871 - Finalized	29/08/2018	0.001	0.060	16.60	104.00	5.54	860.0	0.017	195.00	3.01	59.60	59.00
457207	239.00	241.00	2.00	2	VO18191871 - Finalized	29/08/2018	0.001	0.050	13.80	83.30	7.22	598.0	0.003	258.00	1.18	65.40	65.00
457208	241.00	243.00	2.00	2	VO18191871 - Finalized	29/08/2018	0.001	0.070	25.50	77.40	7.50	729.0	0.007	317.00	1.35	75.70	81.00
457210	243.00	245.00	2.00	2	VO18191871 - Finalized	29/08/2018	0.001	0.210	1.10	65.80	4.92	292.0	0.009	90.00	2.10	45.10	67.00
457211	245.00	247.00	2.00	2	VO18191871 - Finalized	29/08/2018	0.001	0.050	0.50	22.80	4.94	364.0	0.003	69.00	0.21	21.90	85.00
457212	247.00	249.00	2.00	2	VO18191871 - Finalized	29/08/2018	0.001	0.140	1.20	47.90	4.24	198.0	0.003	74.00	1.19	39.10	56.00
457213	249.00	251.00	2.00	2	VO18191871 - Finalized	29/08/2018	0.001	0.080	1.00	35.40	3.52	184.0	0.005	70.00	0.58	34.90	40.00
457214	251.00	253.00	2.00	2	VO18191871 - Finalized	29/08/2018	0.001	0.090	0.10	38.90	3.45	174.0	0.006	82.00	1.19	42.30	37.00



## Detailed Log Report Hole Number OSK-KAN-18-018

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>		<b>Collar Dip:</b>	70.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>		<b>Length:</b>	298.00
<b>Start Date:</b>	August 2, 2018	<b>East:</b>		<b>Hole Type:</b>	DDH
<b>Completed Date:</b>	August 5, 2018	<b>Elev:</b>		<b>Casing Length:</b>	10.50
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	N
<b>Logger 1:</b>	Cynthia Lee			<b>Multi Shot:</b>	Y
<b>Target:</b>	Interpreted antiform cross cutting D2			<b>Claims Title:</b>	2099220
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing
				<b>Collar Az:</b>	250.00
				<b>Hole Size:</b>	NQ
				<b>Surveyed:</b>	N
				<b>Pulled:</b>	N
				<b>Making Water:</b>	N
				<b>Section:</b>	N.A.
				<b>Township:</b>	Kan
				<b>Log Complete:</b>	N

### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	10.50	<b>OVB, Overburden</b>					
<b>Comments:</b>							
10.50	25.30	<b>S6-S9, Mudrock-Iron formati</b>	457215	11.40	12.00	0.60	S6-S9; Chl-2 Ank-1; 2% Po SS VN 1% Py SUB VN 0.5% Py SS ; 5% I1N AK CL
			457217	12.00	13.00	1.00	S6-S9; Chl-2 Ank-1; 2% Po SS VN 1% Py SUB VN 0.5% Py SS ; 5% I1N AK CL
<b>Comments:</b>							
			457218	13.00	14.00	1.00	S6-S9; Chl-2 Ank-1; 2% Po SS VN 1% Py SUB VN 0.5% Py SS ; 5% I1N AK CL
			457219	14.00	15.00	1.00	S6-S9; Chl-2 Ank-1; 2% Po SS VN 1% Py SUB VN 0.5% Py SS ; 5% I1N AK CL
			457220	15.00	16.00	1.00	S6-S9; Chl-2 Ank-1; 2% Po SS VN 1% Py SUB VN 0.5% Py SS ; 5% I1N AK CL
			457221	16.00	17.00	1.00	S6-S9; Chl-2 Ank-1; 2% Po SS VN 1% Py SUB VN 0.5% Py SS ; 5% I1N AK CL
			457222	17.00	18.00	1.00	S6-S9; Chl-2 Ank-1; 2% Po SS VN 1% Py SUB VN 0.5% Py SS ; 5% I1N AK CL
			457223	18.00	19.00	1.00	S6-S9; Chl-2 Ank-1; 2% Po SS VN 1% Py SUB VN 0.5% Py SS ; 5% I1N AK CL
			457224	19.00	20.00	1.00	S6-S9; Chl-2 Ank-1; 2% Po SS VN 1% Py SUB VN 0.5% Py SS ; 5% I1N AK CL
			457225	20.00	21.00	1.00	S6-S9; Chl-2 Ank-1; 2% Po SS VN 1% Py SUB VN 0.5% Py SS ; 5% I1N AK CL
			457226	21.00	22.00	1.00	S6-S9; Chl-2 Ank-1; 2% Po SS VN 1% Py SUB VN 0.5% Py SS ; 5% I1N AK CL
			457227	22.00	23.00	1.00	S6-S9; Chl-2 Ank-1; 2% Po SS VN 1% Py SUB VN 0.5% Py SS ; 5% I1N AK CL
			457228	23.00	24.00	1.00	S6-S9; Chl-2 Ank-1; 2% Po SS VN 1% Py SUB VN 0.5% Py SS ; 5% I1N AK CL
			457230	24.00	25.30	1.30	S6-S9; Chl-2 Ank-1; 2% Po SS VN 1% Py SUB VN 0.5% Py SS ; 5% I1N AK CL

From	To	Lithology	Sample	From	To	Length	Comments
25.30	164.40	S6, Mudrock	457231	25.30	27.00	1.70	S6 GP; Carb-1 Qtz-1; 4% Po AL BD 3% Py SUB BD
			457232	27.00	29.00	2.00	S6 GP; Carb-1 Qtz-1; 4% Po AL BD 3% Py SUB BD; 2% I1N QZ CB
			457233	29.00	31.00	2.00	S6 GP; Carb-1 Qtz-1; 4% Po AL BD 3% Py SUB BD; 2% I1N QZ CB
			457234	31.00	33.00	2.00	S6 GP; Carb-1 Qtz-1; 4% Po AL BD 3% Py SUB BD; 2% I1N QZ CB
			457235	33.00	35.00	2.00	S6 GP; Carb-1 Qtz-1; 4% Po AL BD 3% Py SUB BD; 2% I1N QZ CB
			457237	35.00	37.00	2.00	S6 GP; Carb-1 Qtz-1; 4% Po AL BD 3% Py SUB BD; 2% I1N QZ CB
			457238	37.00	39.00	2.00	S6 GP; Carb-1 Qtz-1; 4% Po AL BD 3% Py SUB BD; 2% I1N QZ CB
			457239	39.00	41.00	2.00	S6 GP; Carb-1 Qtz-1; 4% Po AL BD 3% Py SUB BD; 2% I1N QZ CB
			457240	41.00	43.00	2.00	S6 GP; 3% Py AL VN 0.5% Po AL VN; 95% I1N CL QZ 80 cm
			457241	43.00	45.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po IG BD 1% Py SUB BD; 5% I1N QZ CB
			457242	45.00	47.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po IG BD 1% Py SUB BD; 5% I1N QZ CB
			457243	47.00	49.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po IG BD 1% Py SUB BD; 5% I1N QZ CB
			457244	49.00	51.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po IG BD 1% Py SUB BD; 5% I1N QZ CB
			457245	51.00	53.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po IG BD 1% Py SUB BD; 5% I1N QZ CB
			457246	53.00	55.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po IG BD 1% Py SUB BD; 5% I1N QZ CB
			457247	55.00	57.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po IG BD 1% Py SUB BD; 5% I1N QZ CB
			457248	57.00	59.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po IG BD 1% Py SUB BD; 5% I1N QZ CB
			457250	59.00	61.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po IG BD 1% Py SUB BD; 5% I1N QZ CB
			457251	61.00	63.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po IG BD 1% Py SUB BD; 5% I1N QZ CB
			457252	63.00	65.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po IG BD 1% Py SUB BD; 5% I1N QZ CB
			457253	65.00	67.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po IG BD 1% Py SUB BD; 5% I1N QZ CB
			457254	67.00	69.00	2.00	S6 GP; Carb-1 Qtz-1; 5% I1N QZ CB
			457255	69.00	71.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Po AL BD 2% Py SUB VN; 10% I1N QZ CB
			457257	71.00	73.00	2.00	S6 GP; Carb-1 Qtz-1; 10% I1N QZ CB
			457258	73.00	75.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL BD 1% Py SUB VN
			457259	75.00	77.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL BD 1% Py SUB VN; 5% I1N QZ CB
			457260	77.00	79.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL BD 1% Py SUB VN; 5% I1N QZ CB
			457261	79.00	81.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL BD 1% Py SUB VN; 5% I1N QZ CB
			457262	81.00	83.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL BD 1% Py SUB VN; 5% I1N QZ CB
			457263	83.00	85.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL BD 1% Py SUB VN
			457264	85.00	87.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL BD 1% Py SUB VN; 10% I1N QZ CB
			457265	87.00	89.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL BD 1% Py SUB VN; 10% I1N QZ CB
			457266	89.00	91.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL BD 1% Py SUB VN; 10% I1N QZ CB
			457267	91.00	93.00	2.00	F1; Carb-1 Qtz-1; 20% Po SUB BD 25% Gp SUB BD 1% Py IG BD; 1% I1N QZ
			457268	93.00	95.00	2.00	; Carb-1 Qtz-1
			457270	95.00	97.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po LA BD 1% Py SUB VN; 5% I1N QZ CB
			457271	97.00	99.00	2.00	S6 GP; Carb-1 Qtz-1; 5% I1N QZ CB
			457272	99.00	101.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD
			457273	101.00	103.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 0.5% I1N QZ AK
			457274	103.00	105.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 0.5% I1N QZ AK
			457275	105.00	107.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 0.5% I1N QZ AK

Comments:

From	To	Lithology	Sample	From	To	Length	Comments
			457277	107.00	109.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 0.5% I1N QZ AK
			457278	109.00	111.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 0.5% I1N QZ AK
			457279	111.00	113.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD
			457280	113.00	115.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457281	115.00	117.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457282	117.00	119.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457283	119.00	121.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457284	121.00	123.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457285	123.00	125.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457286	125.00	127.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457287	127.00	129.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457288	129.00	131.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457290	131.00	133.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457291	133.00	135.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457292	135.00	137.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457293	137.00	139.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457294	139.00	141.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457295	141.00	143.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457297	143.00	145.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457298	145.00	147.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457299	147.00	149.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457300	149.00	151.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 2% I1N QZ CB
			457301	151.00	153.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD
			457302	153.00	155.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 3% I1N QZ AK
			457303	155.00	157.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 3% I1N QZ AK
			457304	157.00	159.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 3% I1N QZ AK
			457305	159.00	161.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 3% I1N QZ AK
			457306	161.00	163.00	2.00	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 3% I1N QZ AK
			457307	163.00	164.40	1.40	S6 GP; Carb-1 Qtz-1; 2% Po AL VN 3% Py SUB BD; 3% I1N QZ AK
164.40	170.80	<b>S10, Chert</b>	457308	164.40	166.00	1.60	S9; Sil-2 Qtz-4 Ank-3 Ser-3; 1% Py SS BD 1% Py SUB BD 2% Po AL VN 1% Py SUB BD 1% Po SS BD; 20% I1N SR AK 50 cm
<b>Comments:</b>			457310	166.00	168.00	2.00	S9; Sil-2 Qtz-4 Ank-3 Ser-3; 1% Py SS BD 1% Py SUB BD 2% Po AL VN 1% Py SUB BD 1% Po SS BD; 20% I1N SR AK 50 cm
			457311	168.00	170.00	2.00	S9; Sil-2 Qtz-4 Ank-3 Ser-3; 1% Py SS BD 1% Py SUB BD 2% Po AL VN 1% Py SUB BD 1% Po SS BD; 20% I1N SR AK 50 cm
			457312	170.00	170.80	0.80	S9; Sil-4 Qtz-4 Ank-3 Ser-3; 1% Py SS BD 1% Py SUB BD 2% Po AL VN 1% Py SUB BD 1% Po SS BD; 20% I1N SR AK 50 cm

From	To	Lithology	Sample	From	To	Length	Comments	
170.80	210.50	<b>S6, Mudrock</b>	457313	170.80	172.00	1.20	S6 GP; Qtz-1 Carb-1; 2% Po LA BD 1% Py SUB BD; 2% I1N CB QZ	
			457314	172.00	174.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Po LA BD 1% Py SUB BD; 2% I1N CB QZ	
<b>Comments:</b>			457315	174.00	176.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Po LA BD 1% Py SUB BD; 2% I1N CB QZ	
			457317	176.00	178.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Po LA BD 1% Py SUB BD; 2% I1N CB QZ	
			457318	178.00	180.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Po LA BD 1% Py SUB BD; 2% I1N CB QZ	
			457319	180.00	182.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Po LA BD 1% Py SUB BD; 2% I1N CB QZ	
			457320	182.00	184.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Po LA BD 1% Py SUB BD; 2% I1N CB QZ	
			457321	184.00	186.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Po LA BD 1% Py SUB BD; 2% I1N CB QZ	
			457322	186.00	188.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Po LA BD 1% Py SUB BD; 2% I1N CB QZ	
			457323	188.00	190.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Po LA BD 1% Py SUB BD; 2% I1N CB QZ	
			457324	190.00	192.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Po LA BD 1% Py SUB BD; 2% I1N CB QZ	
			457325	192.00	194.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Po LA BD 1% Py SUB BD; 2% I1N CB QZ	
			457326	194.00	196.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Po LA BD 1% Py SUB BD; 2% I1N CB QZ	
			457327	196.00	198.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Po LA BD 1% Py SUB BD; 2% I1N CB QZ	
			457328	198.00	200.00	2.00	S6 GP; Qtz-1 Carb-1; 2% I1N CB QZ	
			457330	200.00	202.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Po LA BD 5% Py SUB BD; 2% I1N CB QZ	
			457331	202.00	204.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Po LA BD 5% Py SUB BD; 2% I1N CB QZ	
			457332	204.00	206.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Po LA BD 5% Py SUB BD; 2% I1N CB QZ	
			457333	206.00	208.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Po LA BD 5% Py SUB BD; 2% I1N CB QZ	
			457334	208.00	210.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Po LA BD 5% Py SUB BD; 2% I1N CB QZ	
		457335	210.00	210.50	0.50	S6 GP; Qtz-1 Carb-1; 5% Po LA BD 5% Py SUB BD; 2% I1N CB QZ		
210.50	218.50	<b>S9, Iron formation</b>	457337	210.50	212.00	1.50	S9C Sid; Carb-2 Ank-2 Ank-1 BL-1; 1% Po AL VN 1% Py AL VN 0.1% Cp DI VN; 7% I1N AK CL	
<b>Comments:</b>			457338	212.00	213.00	1.00	S9C Sid; Carb-3 Ank-2 Ank-2 Chl-2 Ser-1; 1% Po AL VN 1% Py AL VN 0.1% Cp DI VN; 7% I1N AK CL	
			457339	213.00	214.00	1.00	S9C Sid; 1% Po AL VN 1% Py AL VN 0.1% Cp DI VN; 7% I1N AK CL	
			457340	214.00	215.00	1.00	S9C Sid; Ank-2 Chl-2 Ser-1; 1% Po AL VN 1% Py AL VN 0.1% Cp DI VN; 7% I1N AK CL	
			457341	215.00	216.00	1.00	S9C Sid; Ank-2 Chl-2 Ser-1; 1% Po AL VN 1% Py AL VN 0.1% Cp DI VN; 7% I1N AK CL	
			457342	216.00	217.00	1.00	S9C Sid; Ank-2 Chl-2 Ser-1; 1% Po AL VN 1% Py AL VN 0.1% Cp DI VN; 7% I1N AK CL	
			457343	217.00	218.00	1.00	S9C Sid; Ank-2 Chl-2 Ser-1; 1% Po AL VN 1% Py AL VN 0.1% Cp DI VN; 7% I1N AK CL	
			457344	218.00	218.50	0.50	S9C Sid; Ank-2 Chl-2 Ser-1; 1% Po AL VN 1% Py AL VN 0.1% Cp DI VN; 7% I1N AK CL	

From	To	Lithology	Sample	From	To	Length	Comments
218.50	298.00	S6g, Grey Shale	457345	218.50	220.00	1.50	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N QZ
			457346	220.00	222.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N QZ
<b>Comments:</b>			457347	222.00	224.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N QZ
			457348	224.00	226.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N QZ
			457350	226.00	228.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N QZ
			457351	228.00	230.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N QZ
			457352	230.00	232.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N QZ
			457353	232.00	234.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N QZ
			457354	234.00	236.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N QZ
			457355	236.00	238.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N QZ
			457357	238.00	240.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N QZ
			457358	240.00	242.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN
			457359	242.00	244.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 4% I1N AK QZ
			457360	244.00	246.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN
			457361	246.00	248.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N AK QZ
			457362	248.00	250.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N AK QZ
			457363	250.00	252.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N AK QZ
			457364	252.00	254.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 1% I1N AK QZ
			457365	254.00	256.00	2.00	S6g
			457366	256.00	258.00	2.00	; Ank-2 Ser-1 Qtz-2; 1% Po AL VN 1% Py AL VN; 5% I1N AK SR
			457367	258.00	260.00	2.00	S6g; Ank-2 Ser-1 Qtz-2; 1% Po AL VN 1% Py AL VN; 5% I1N AK SR
			457368	260.00	262.00	2.00	S6g; Ank-2 Ser-1 Qtz-2; 5% I1N AK SR
			457370	262.00	264.00	2.00	; Ank-2 Ser-1 Qtz-2; 0.5% Po AL VN; 5% I1N AK SR
			457371	264.00	266.00	2.00	S6g; Ank-2 Ser-1 Qtz-2; 0.5% Po AL VN; 5% I1N AK SR
			457372	266.00	268.00	2.00	S6g; 1% Po AL VN 1% Py AL VN
			457373	268.00	270.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 1% Po AL VN 1% Py AL VN; 2% I1N AK QZ
			457374	270.00	272.00	2.00	S6g; 1% Po AL VN 1% Py AL VN
			457375	272.00	274.00	2.00	S6g; Ank-2 Ser-1 Qtz-2; 1% Po AL VN 1% Py AL VN; 5% I1N AK SR
			457377	274.00	276.00	2.00	S6g; Ank-2 Ser-1 Qtz-2; 1% Po AL VN 1% Py AL VN; 5% I1N AK SR
			457378	276.00	278.00	2.00	S6g; Ank-2 Ser-1 Qtz-2; 1% Po AL VN 1% Py AL VN; 5% I1N AK SR
			457379	278.00	280.00	2.00	
			457380	280.00	282.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 2% I1N AK QZ
			457381	282.00	284.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 2% I1N AK QZ
			457382	284.00	286.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 2% I1N AK QZ
			457383	286.00	288.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 2% I1N AK QZ
			457384	288.00	290.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 2% I1N AK QZ
			457385	290.00	292.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 2% I1N AK QZ
			457386	292.00	294.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 2% I1N AK QZ
			457387	294.00	296.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 2% I1N AK QZ
			457388	296.00	298.00	2.00	S6g; Carb-1 Ank-1 Qtz-1; 0.5% Po AL VN; 2% I1N AK QZ

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
1.00	346.40	-68.30	FM	Test Non-OK	
4.00	245.00	-68.20	FM	Test OK-Accept	
7.00	244.70	-68.40	FM	Test OK-Accept	
10.00	243.60	-68.30	FM	Test Non-OK	
13.00	243.70	-68.50	FM	Test OK-Accept	
16.00	245.50	-68.40	FM	Test OK-Accept	
19.00	243.40	-68.50	FM	Test OK-Accept	
22.00	245.80	-68.50	FM	Test OK-Accept	
25.00	245.20	-68.50	FM	Test OK-Accept	
28.00	245.60	-68.40	FM	Test OK-Accept	
31.00	244.50	-68.40	FM	Test Non-OK	
34.00	246.40	-68.40	FM	Test Non-OK	
37.00	243.10	-68.40	FM	Test Non-OK	
40.00	247.90	-68.40	FM	Test Non-OK	
43.00	238.00	-68.00	FM	Test Non-OK	
46.00	240.30	-68.30	FM	Test Non-OK	
49.00	242.60	-68.30	FM	Test OK-Accept	
52.00	243.90	-68.30	FM	Test OK-Accept	
55.00	241.10	-68.30	FM	Test Non-OK	
58.00	245.90	-68.20	FM	Test Non-OK	
61.00	245.40	-68.20	FM	Test Non-OK	
64.00	246.40	-68.10	FM	Test OK-Accept	
67.00	246.00	-68.10	FM	Test OK-Accept	
70.00	236.80	-68.10	FM	Test Non-OK	
73.00	246.90	-68.10	FM	Test OK-Accept	
76.00	245.90	-68.10	FM	Test OK-Accept	
79.00	244.30	-68.00	FM	Test OK-Accept	
82.00	241.10	-68.20	FM	Test OK-Accept	
85.00	248.80	-68.00	FM	Test Non-OK	
88.00	244.70	-67.90	FM	Test OK-Accept	
91.00	242.60	-67.80	FM	Test Non-OK	
94.00	248.50	-67.90	FM	Test OK-Accept	
97.00	228.30	-73.30	FM	Test Non-OK	
100.00	249.00	-67.90	FM	Test OK-Accept	
103.00	243.00	-67.90	FM	Test Non-OK	
106.00	242.90	-67.90	FM	Test OK-Accept	
109.00	249.00	-67.90	FM	Test OK-Accept	



Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
112.00	242.80	-67.80	FM	Test Non-OK	
115.00	249.80	-67.80	FM	Test OK-Accept	
118.00	250.00	-67.90	FM	Test OK-Accept	
121.00	242.30	-67.80	FM	Test Non-OK	
124.00	250.20	-67.90	FM	Test OK-Accept	
127.00	249.30	-67.80	FM	Test OK-Accept	
130.00	261.70	-67.00	FM	Test Non-OK	
133.00	248.60	-67.80	FM	Test OK-Accept	
136.00	249.50	-67.60	FM	Test OK-Accept	
139.00	249.10	-67.70	FM	Test OK-Accept	
142.00	249.60	-67.60	FM	Test OK-Accept	
145.00	249.60	-67.60	FM	Test OK-Accept	
148.00	249.50	-67.60	FM	Test OK-Accept	
151.00	247.50	-67.60	FM	Test OK-Accept	
154.00	247.90	-67.60	FM	Test Non-OK	
157.00	250.10	-67.50	FM	Test OK-Accept	
160.00	250.20	-67.60	FM	Test OK-Accept	
163.00	249.40	-67.50	FM	Test OK-Accept	
166.00	249.20	-67.50	FM	Test OK-Accept	
169.00	249.70	-67.40	FM	Test OK-Accept	
172.00	249.30	-67.40	FM	Test OK-Accept	
175.00	249.60	-67.40	FM	Test OK-Accept	
178.00	244.10	-67.50	FM	Test Non-OK	
181.00	249.40	-67.40	FM	Test OK-Accept	
184.00	249.70	-67.50	FM	Test OK-Accept	
187.00	250.80	-67.40	FM	Test OK-Accept	
190.00	245.30	-67.40	FM	Test Non-OK	
193.00	249.50	-67.40	FM	Test OK-Accept	
196.00	248.10	-67.20	FM	Test Non-OK	
199.00	249.90	-67.30	FM	Test OK-Accept	
202.00	251.40	-67.30	FM	Test OK-Accept	
205.00	250.90	-67.30	FM	Test OK-Accept	
208.00	251.80	-67.10	FM	Test OK-Accept	
211.00	250.30	-67.40	FM	Test OK-Accept	
214.00	250.90	-67.40	FM	Test OK-Accept	
217.00	250.90	-67.30	FM	Test OK-Accept	
220.00	251.40	-67.30	FM	Test OK-Accept	
223.00	251.20	-67.30	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
226.00	251.20	-67.30	FM	Test OK-Accept	
229.00	251.10	-67.20	FM	Test OK-Accept	
232.00	251.40	-67.10	FM	Test OK-Accept	
235.00	251.40	-67.10	FM	Test OK-Accept	
238.00	251.00	-67.10	FM	Test OK-Accept	
241.00	251.10	-67.10	FM	Test OK-Accept	
244.00	251.50	-67.10	FM	Test OK-Accept	
247.00	251.10	-67.10	FM	Test OK-Accept	
250.00	251.50	-67.00	FM	Test OK-Accept	
253.00	251.70	-66.90	FM	Test OK-Accept	
256.00	252.00	-66.90	FM	Test OK-Accept	
259.00	251.80	-66.90	FM	Test OK-Accept	
262.00	251.40	-66.90	FM	Test OK-Accept	
265.00	251.60	-66.80	FM	Test OK-Accept	
268.00	251.60	-66.70	FM	Test OK-Accept	
271.00	251.60	-66.70	FM	Test OK-Accept	
274.00	251.90	-66.60	FM	Test OK-Accept	
277.00	252.00	-66.60	FM	Test OK-Accept	
280.00	252.10	-66.40	FM	Test OK-Accept	
283.00	252.70	-66.20	FM	Test OK-Accept	
286.00	253.10	-66.00	FM	Test OK-Accept	
289.00	253.50	-65.90	FM	Test OK-Accept	
292.00	254.00	-65.70	FM	Test OK-Accept	
295.00	254.90	-65.80	FM	Test OK-Accept	
298.00	254.80	-65.80	FM	Test OK-Accept	

Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
10.50	25.30	S6-S9	BD	HK			S6-S9			GD	BN	2	FG		70.00	DIF	
25.30	91.00	S6	BD	HJ			S6 GP			BK		1	Aph				
91.00	94.30	S6	MA	HJ			F1			BK	BN	1	CG				
94.30	164.40	S6	BD	HJ			S6 GP			BK		1	Aph		45.00	SHP	
164.40	170.80	S10	BD	IU	RU		S9	5.00	Silica	GD	GL	2	FG		28.00	SHP	This unit contains regular banding with silica rich bands (concordant to bedding) that are interpreted to be chert beds. Interpreted this unit to be a transitional unit at the edge of the iron formation (Fe-poor cherty unit) interbedded with black shale. Lower contact is sharp and cross cuts bedding, and underlying black shale contains semi-massive interstitial pyrrhotite in the black shale.
170.80	210.50	S6	BD				S6 GP			BK		1	Aph		73.00	SHP	
210.50	218.50	S9	BD	RU	HJ		S9C Sid	5.00	Silica	GM		3	FG		70.00	SHP	
218.50	257.50	S6g	RU	CS	BD	HJ	S6g			GL		2	Aph				
257.50	263.20	S6g	PI	CS	HJ		S6g			GM	GD	2	Aph				Contains around 8% (chloritoides? or nodules of qz-cl that replaced chloritoides), rounded and porphyroblastic, millimetric in size
263.20	270.00	S6g	RU	CS	BD	HJ	S6g			GL		2	Aph				
270.00	278.30	S6g	RU	CS	BD	HJ	S6g	5.00	Carbonate	GL		2	Aph				
278.30	279.40	S6g	PI	CS	HJ		S6g			GM	GD	2	Aph				Contains around 8% (chloritoides? or nodules of qz-cl that replaced chloritoides), rounded and porphyroblastic, millimetric in size
279.40	298.00	S6g	RU	CS	BD	HJ	S6g			GL		2	Aph				

**Mineralization Data**

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
10.50	25.30		Po	2.00	SS	VN		Py	1.00	SUB	VN		Py	0.50	SS		
25.30	41.30		Po	4.00	AL	BD		Py	3.00	SUB	BD						
41.30	42.50		Py	3.00	AL	VN		Po	0.50	AL	VN						
42.50	68.00		Po	2.00	IG	BD		Py	1.00	SUB	BD						
68.00	71.60		Po	3.00	AL	BD		Py	2.00	SUB	VN						
71.60	91.00		Po	2.00	AL	BD		Py	1.00	SUB	VN						
91.00	94.00		Po	20.00	SUB	BD		Gp	25.00	SUB	BD		Py	1.00	IG	BD	
94.00	97.30		Po	2.00	LA	BD		Py	1.00	SUB	VN						
97.30	164.40		Po	2.00	AL	VN		Py	3.00	SUB	BD						
164.40	170.80		Py	1.00	SS	BD		Py	1.00	SUB	BD		Po	2.00	AL	VN	
170.80	199.00		Po	2.00	LA	BD		Py	1.00	SUB	BD						
199.00	210.50		Po	5.00	LA	BD		Py	5.00	SUB	BD						
210.50	218.50		Po	1.00	AL	VN		Py	1.00	AL	VN		Cp	0.10	DI	VN	
218.50	255.30		Po	0.50	AL	VN											
255.30	260.90		Po	1.00	AL	VN		Py	1.00	AL	VN						
260.90	266.00		Po	0.50	AL	VN											
266.00	278.40		Po	1.00	AL	VN		Py	1.00	AL	VN						
278.40	298.00		Po	0.50	AL	VN											

## Alteration Data

From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
10.50	25.30	Chl	2	VN	Ank	1	VN				
25.30	41.30	Carb	1	VN	Qtz	1	VN				
41.30	42.50	Qtz	5	VN							
42.50	164.40	Carb	1	VN	Qtz	1	VN				
164.40	170.00	Sil	2	PEN	Qtz	4	VN	Ank	3	VN	weak silica flooding (SIL 2 PEN) associated to chert bands
170.00	170.80	Sil	4	CTC	Qtz	4	VN	Ank	3	VN	moderate-strong silica flooding (SIL 4 CTC) associated to contact of S10 with underlying black shale.
170.80	210.50	Qtz	1	VN	Carb	1	VN				
210.50	212.00	Carb	2	CTC	Ank	2	VN	Ank	1	DI	penetrative carbonatation and weak bleaching in carbonate iron formation at upper contact with overlying black shale.
212.00	213.50	Carb	3	PEN	Ank	2	PEN	Ank	2	VN	
213.50	218.50	Ank	2	VN	Chl	2	VN	Ser	1	VN	
218.50	255.30	Carb	1	VN	Ank	1	VN	Qtz	1	VN	
255.30	266.70	Ank	2	VN	Ser	1	VN	Qtz	2	VN	
266.70	271.50	Carb	1	VN	Ank	1	VN	Qtz	1	VN	
271.50	278.30	Ank	2	VN	Ser	1	VN	Qtz	2	VN	
278.30	298.00	Carb	1	VN	Ank	1	VN	Qtz	1	VN	

## Vein Data

From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
10.50	25.50	5.00		I1N		Vein >5cm	AK	5.00	CL	7.00	QZ	88.00				Po	1.00	Py	0.50	
25.50	41.30	2.00		I1N		Veinlet <5cm	QZ	50.00	CB	50.00						Po	2.00	Py	0.50	
41.30	42.50	95.00	80.00	I1N		Vein >5cm	CL	0.50	QZ	97.50	GP	2.00				Po	0.50			
42.50	69.00	5.00		I1N		Veinlet <5cm	QZ	50.00	CB	50.00						Po	1.00	Py	0.50	
69.00	74.00	10.00		I1N		Veinlet <5cm	QZ	50.00	CB	50.00						Po	2.00	Py	2.00	
74.00	84.00	5.00		I1N		Veinlet <5cm	QZ	50.00	CB	50.00						Po	1.00	Py	0.50	
84.00	91.00	10.00		I1N		Veinlet <5cm	QZ	95.00	CB	5.00						Po	2.00	Py	1.00	
91.00	94.00	1.00		I1N		Veinlet <5cm	QZ	100.00												
94.00	100.70	5.00		I1N		Veinlet <5cm	QZ	95.00	CB	5.00						Po	1.00	Py	1.00	
100.70	112.60	0.50		I1N		Veinlet <5cm	QZ	92.00	AK	8.00						Po	3.00	Py	2.00	
112.60	152.00	2.00		I1N		Veinlet <5cm	QZ	50.00	CB	50.00										
152.00	164.40	3.00		I1N		Veinlet <5cm	QZ	95.00	AK	3.00	SR	2.00				Po	2.00	Py	2.00	trace chlorite also visible in veins.
164.40	170.80	20.00	50.00	I1N		Vein >5cm	SR	12.00	AK	5.00	QZ	83.00				Po	2.00	Py	2.00	trace to 1% chlorite also visible in veins.
170.80	210.50	2.00		I1N		Veinlet <5cm	CB	50.00	QZ	50.00										
210.50	218.50	7.00		I1N		Vein >5cm	AK	8.00	CL	1.00	SR	2.00				Po	1.00	Py	0.10	trace chalcopyrite, quartz gangue
218.50	241.00	1.00		I1N		Veinlet <5cm	QZ	100.00								Po	0.50	Py	0.10	
241.00	244.30	4.00		I1N		Vein >5cm	AK	3.00	QZ	97.00						Po	1.00	Py	0.10	
244.30	255.40	1.00		I1N		Veinlet <5cm	AK	1.00	QZ	99.00						Po	0.10			
255.40	266.30	5.00		I1N		Vein >5cm	AK	8.00	SR	2.00	CL	3.00				Po	2.00			
266.30	271.00	2.00		I1N		Veinlet <5cm	AK	3.00	QZ	97.00						Po	0.50			
271.00	278.30	5.00		I1N		Vein >5cm	AK	8.00	SR	2.00	CL	3.00				Po	3.00			Also quartz gangue
278.30	298.00	2.00		I1N		Veinlet <5cm	AK	3.00	QZ	97.00						Po	0.50			

**Structure Data**

From	To	Structure Type	Structure Intensity	Structure Angle	Comments
289.40	290.40	FO	5		strong S2 schistosity

## Oriented Structure Data

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
16.20	S0		60.00										
20.80	S0		63.00										
25.30	CNT		70.00										
30.80			84.00	80.00	243.65	-68.40	-23.36	348.69	0.00	78.69	130.00	FAXIS	mesure très incertaine, beaucoup de spin dans le core
30.80	AxialPlane		84.00	80.00	243.65	-68.40	-23.36	348.69	0.00	78.69			mesure très incertaine, beaucoup de spin dans le core
37.00	S0		45.00	44.00	238.77	-68.10	-62.20	2.50	0.00	92.50			mesure très incertaine, beaucoup de spin dans le core
40.20	S0		51.00	97.00	241.83	-68.30	-41.37	42.75	0.00	132.75			mesure très incertaine, beaucoup de spin dans le core
54.90	S0		66.00	93.00	246.20	-68.10	-31.18	27.88	0.00	117.88			mesure très incertaine, beaucoup de spin dans le core
55.40	S0		66.00	109.00	246.13	-68.10	-26.23	36.60	0.00	126.60			mesure très incertaine, beaucoup de spin dans le core
58.60	S0		50.00	103.00	238.48	-68.10	-40.12	44.88	0.00	134.88			mesure très incertaine, beaucoup de spin dans le core
59.00			80.00	76.00	238.48	-68.10	-26.09	351.01	0.00	81.01	12.00	FAXIS	mesure très incertaine, beaucoup de spin dans le core
59.00	AxialPlane		80.00	76.00	238.48	-68.10	-26.09	351.01	0.00	81.01			mesure très incertaine, beaucoup de spin dans le core
61.50			53.00	25.00	246.73	-68.10	-57.48	354.29	0.00	84.29	72.00	FAXIS	mesure très incertaine, beaucoup de spin dans le core
61.50	AxialPlane		53.00	25.00	246.73	-68.10	-57.48	354.29	0.00	84.29			mesure très incertaine, beaucoup de spin dans le core
63.10	S0		80.00										
69.90	S2		64.00	109.00	244.95	-68.10	-27.48	38.88	0.00	128.88			
69.90	S0		72.00	250.00	244.95	-68.10	-22.80	286.42	0.00	16.42			mesure très incertaine, beaucoup de spin dans le core
74.50	S0		82.00										
75.50	S0		79.00										
77.90	S0		80.00										
82.30	S0		77.00										
89.80	S0		69.00										
90.00	S0		70.00	340.00	245.95	-67.90	-41.43	325.77	0.00	55.77			mesure très incertaine, beaucoup de spin dans le core
95.40	S0		68.00										
98.40	S0		38.00										
106.10	VN		40.00	137.00	251.37	-67.67	-36.15	99.04	0.00	189.04			
109.70	S0		60.00	18.00	255.15	-67.40	-51.92	356.47	0.00	86.47			
114.10	S0		61.00										
115.30			57.00	10.00	249.23	-67.67	-55.11	345.85	0.00	75.85	54.00	FAXIS	
115.30	AxialPlane		57.00	10.00	249.23	-67.67	-55.11	345.85	0.00	75.85			
115.70			60.00	356.00	249.17	-67.68	-52.28	336.64	0.00	66.64	43.00	FAXIS	
115.70	AxialPlane		60.00	356.00	249.17	-67.68	-52.28	336.64	0.00	66.64			
121.20	S0		70.00										
124.20	S0		56.00	34.00	248.83	-67.60	-53.86	1.62	0.00	91.62			



Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
130.40	AxialPlane		70.00	75.00	249.37	-67.53	-33.43	16.21	0.00	106.21			
130.40			70.00	75.00	249.37	-67.53	-33.43	16.21	0.00	106.21	65.00	FAXIS	
135.90	S0		58.00	98.00	249.53	-67.52	-35.73	43.51	0.00	133.51			
141.30	S2		48.00	110.00	249.63	-67.40	-39.28	62.89	0.00	152.89			
141.70	AxialPlane		42.00	135.00	249.57	-67.40	-34.95	93.02	0.00	183.02			
141.70			42.00	135.00	249.57	-67.40	-34.95	93.02	0.00	183.02	58.00	FAXIS	
145.40	S0		48.00	30.00	249.50	-67.40	-62.39	1.68	0.00	91.68			
146.60	AxialPlane		56.00	26.00	247.77	-67.43	-55.06	355.17	0.00	85.17			
146.60			56.00	26.00	247.77	-67.43	-55.06	355.17	0.00	85.17	80.00	FAXIS	
149.80	S0		61.00										
153.90	S0		52.00	360.00	249.88	-67.48	-60.52	339.88	0.00	69.88			
157.70	S0		69.00										
160.10	S0		51.00										
163.00	S0		74.00	360.00	248.57	-67.27	-38.73	338.57	0.00	68.57			
165.80	S0		67.00	360.00	249.60	-67.28	-45.72	339.60	0.00	69.60			
167.00	S0		70.00	345.00	250.40	-67.30	-42.32	332.84	0.00	62.84			
169.50	S0		90.00	0.00	251.23	-67.30	-22.70	341.23	0.00	71.23			
170.80	CNT		30.00										
172.90	S2		50.00	210.00	251.50	-67.17	-22.77	217.62	0.00	307.62			peut-être plus un S2
173.00			69.00	220.00	251.50	-67.17	-14.77	276.88	0.00	6.88	60.00	FAXIS	
173.00	AxialPlane		69.00	220.00	251.50	-67.17	-14.77	276.88	0.00	6.88			
177.50	S0		70.00										
179.20	S0		66.00										
180.00	S0		56.00										
183.50	AxialPlane		66.00										
189.50	S2		49.00	32.00	251.17	-67.27	-61.24	4.53	0.00	94.53			
190.60			53.00	25.00	251.12	-67.22	-58.32	358.51	0.00	88.51	81.00	FAXIS	
190.60	AxialPlane		53.00	25.00	251.12	-67.22	-58.32	358.51	0.00	88.51			
190.70	S0		80.00	8.00	251.12	-67.22	-32.71	343.68	0.00	73.68			
193.00	S2		46.00	115.00	251.30	-67.13	-39.02	70.48	0.00	160.48			
199.20			66.00	33.00	251.03	-67.10	-44.86	359.34	0.00	89.34	96.00	FAXIS	
199.20	AxialPlane		66.00	33.00	251.03	-67.10	-44.86	359.34	0.00	89.34			
202.10	S0		67.00										
204.40	S0		64.00										
207.80	S0		61.00										

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
209.20	S0		57.00										
210.30	S0		73.00	135.00	251.63	-66.93	-16.09	29.89	0.00	119.89			
210.50	CNT		73.00	112.00	251.63	-66.93	-22.67	26.34	0.00	116.34			subconcordant to bedding
214.90	S0		70.00	182.00	251.90	-66.90	-3.19	329.50	0.00	59.50			
217.00	VN		72.00	38.00	251.67	-66.90	-38.81	359.34	0.00	89.34			
217.80	S0		73.00	136.00	251.53	-66.90	-15.82	29.71	0.00	119.71			
218.50	CNT		70.00	200.00	251.47	-66.90	-7.93	283.45	0.00	13.45			subconcordant to bedding
220.00	VN		40.00	160.00	251.50	-66.85	-29.07	128.87	0.00	218.87			qz-ak-po vein
221.00	S2		60.00	10.00	251.57	-66.82	-52.97	347.81	0.00	77.81			
221.80	S0		77.00	105.00	251.60	-66.77	-23.32	14.89	0.00	104.89			
227.30	S0		85.00	184.00	251.75	-66.65	-18.37	340.64	0.00	70.64			
229.70	S0		84.00										
233.20	S0		82.00	350.00	252.08	-66.43	-31.47	339.43	0.00	69.43			
235.20	S0		79.00	360.00	252.50	-66.27	-34.73	342.50	0.00	72.50			1cm qz-ak veinlet
237.80	S0		72.00	330.00	252.97	-66.07	-40.47	329.20	0.00	59.20			
242.10	S0		80.00	30.00	253.75	-65.80	-33.22	352.87	0.00	82.87			
244.50	S0		76.00										
248.10	S0		87.00	176.00	254.82	-65.80	-21.21	345.39	0.00	75.39			
248.50	S2		54.00	44.00	254.82	-65.80	-55.63	14.47	0.00	104.47			
250.90	VN		68.00	22.00	254.80	-65.80	-45.31	356.19	0.00	86.19			
253.00	S2		60.00	20.00	254.80	-65.80	-53.32	357.11	0.00	87.11			
253.00			85.00	105.00	254.80	-65.80	-23.38	357.05	0.00	87.05	145.00	FAXIS	
253.00	AxialPlane		85.00	105.00	254.80	-65.80	-23.38	357.05	0.00	87.05			
253.80	S0		74.00	25.00	254.80	-65.80	-39.25	355.41	0.00	85.41			
254.90	S0		73.00										
256.80	S0		65.00	323.00	254.80	-65.80	-46.50	324.28	0.00	54.28			
257.00	VN		42.00	20.00	254.80	-65.80	-71.09	0.39	0.00	90.39			qz-ser-ak-chl-po vein
258.50	S2		54.00	1.00	254.80	-65.80	-60.20	345.48	0.00	75.48			
263.70	S0		56.00	280.00	254.80	-65.80	-44.24	292.68	0.00	22.68			
266.40	S2		51.00	38.00	254.80	-65.80	-59.63	11.48	0.00	101.48			
266.80	S0		45.00	295.00	254.80	-65.80	-58.50	296.07	0.00	26.07			foliation tourne
268.70	S0		69.00										
269.70	S0		63.00	330.00	254.80	-65.80	-49.34	327.39	0.00	57.39			
273.20	S0		71.00	15.00	254.80	-65.80	-42.82	351.92	0.00	81.92			
277.50	S0		85.00	205.00	254.80	-65.80	-19.77	338.55	0.00	68.55			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
280.60	S0		75.00	160.00	254.80	-65.80	-11.26	11.75	0.00	101.75			
281.00	AxialPlane		56.00	1.00	254.80	-65.80	-58.20	345.46	0.00	75.46			
281.00			56.00	1.00	254.80	-65.80	-58.20	345.46	0.00	75.46	80.00	FAXIS	
281.40	VN		62.00	346.00	254.80	-65.80	-51.78	336.49	0.00	66.49			
282.10	S2		60.00	358.00	254.80	-65.80	-54.19	343.57	0.00	73.57			
285.20	S0		79.00	160.00	254.80	-65.80	-14.34	0.08	0.00	90.08			
286.80	S2		65.00	358.00	254.80	-65.80	-49.19	343.68	0.00	73.68			
287.20			80.00	10.00	254.80	-65.80	-34.09	347.88	0.00	77.88	80.00	FAXIS	
287.20	AxialPlane		80.00	10.00	254.80	-65.80	-34.09	347.88	0.00	77.88			
288.90	S0		68.00	30.00	254.80	-65.80	-44.54	0.29	0.00	90.29			
290.00	S2		70.00										
291.70	S2		66.00	95.00	254.80	-65.80	-32.03	34.62	0.00	124.62			
297.50	S0		82.00										

Sample Data - ASSAY

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457215	11.40	12.00	0.60	2	VO18191871 - Finalized	29/08/2018	0.072	0.670	13.80	95.80	14.70	2,930.0	0.203	457.00	50.20	124.50	1 490.00
457217	12.00	13.00	1.00	2	VO18191871 - Finalized	29/08/2018	0.045	0.530	134.50	128.00	20.10	4,040.0	0.039	182.00	19.40	57.40	270.00
457218	13.00	14.00	1.00	2	VO18191871 - Finalized	29/08/2018	0.121	0.450	158.00	96.70	18.90	5,070.0	0.068	213.00	18.40	36.60	470.00
457219	14.00	15.00	1.00	2	VO18191871 - Finalized	29/08/2018	0.085	0.350	68.40	68.70	22.50	11,700.0	0.046	155.00	13.75	26.20	351.00
457220	15.00	16.00	1.00	2	VO18191871 - Finalized	29/08/2018	0.025	0.270	14.10	43.10	22.20	12,950.0	0.038	141.00	10.60	16.90	309.00
457221	16.00	17.00	1.00	2	VO18191867 - Finalized	29/08/2018	0.037	0.370	30.50	66.40	22.60	13,850.0	0.036	176.00	12.20	22.00	414.00
457222	17.00	18.00	1.00	2	VO18191867 - Finalized	29/08/2018	0.036	0.500	30.50	95.50	23.60	13,950.0	0.040	158.00	16.05	28.90	407.00
457223	18.00	19.00	1.00	2	VO18191867 - Finalized	29/08/2018	0.055	0.380	44.70	62.40	21.80	12,500.0	0.059	174.00	17.40	21.20	525.00
457224	19.00	20.00	1.00	2	VO18191867 - Finalized	29/08/2018	0.288	0.360	70.20	73.80	19.60	12,450.0	0.068	170.00	15.50	22.50	590.00
457225	20.00	21.00	1.00	2	VO18191867 - Finalized	29/08/2018	0.109	0.640	129.00	84.20	21.70	13,950.0	0.182	229.00	24.10	29.50	1 320.00
457226	21.00	22.00	1.00	2	VO18191867 - Finalized	29/08/2018	0.022	0.790	177.50	161.00	19.15	10,650.0	0.115	324.00	35.60	59.80	813.00
457227	22.00	23.00	1.00	2	VO18191867 - Finalized	29/08/2018	0.022	0.700	137.00	127.00	17.60	9,610.0	0.090	281.00	31.00	54.50	544.00
457228	23.00	24.00	1.00	2	VO18191867 - Finalized	29/08/2018	0.019	0.880	300.00	188.00	21.10	9,150.0	0.063	313.00	36.90	72.80	416.00
457230	24.00	25.30	1.30	2	VO18191867 - Finalized	29/08/2018	0.034	1.510	577.00	278.00	20.60	9,550.0	0.139	391.00	43.50	140.50	779.00
457231	25.30	27.00	1.70	2	VO18191867 - Finalized	29/08/2018	0.015	0.900	29.90	250.00	12.50	767.0	0.139	334.00	24.70	152.50	980.00
457232	27.00	29.00	2.00	2	VO18191867 - Finalized	29/08/2018	0.044	1.130	66.70	330.00	13.80	388.0	0.286	422.00	35.90	206.00	1 390.00
457233	29.00	31.00	2.00	2	VO18191867 - Finalized	29/08/2018	0.091	2.310	261.00	127.00	16.65	653.0	0.765	799.00	75.70	236.00	2 170.00
457234	31.00	33.00	2.00	2	VO18191867 - Finalized	29/08/2018	0.070	1.770	203.00	183.00	15.80	279.0	0.650	546.00	51.80	247.00	1 740.00
457235	33.00	35.00	2.00	2	VO18191867 - Finalized	29/08/2018	0.030	0.960	116.00	226.00	12.35	427.0	0.406	267.00	20.10	138.50	761.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457237	35.00	37.00	2.00	2	VO18191867 - Finalized	29/08/2018	0.066	2.600	233.00	209.00	14.20	1,120.0	0.871	1 080.00	103.50	297.00	2 950.00
457238	37.00	39.00	2.00	2	VO18191867 - Finalized	29/08/2018	0.052	1.730	232.00	167.50	14.90	770.0	0.810	702.00	69.00	217.00	2 120.00
457239	39.00	41.00	2.00	2	VO18191867 - Finalized	29/08/2018	0.073	2.810	275.00	201.00	14.80	1,140.0	0.867	1 390.00	123.50	299.00	3 230.00
457240	41.00	43.00	2.00	2	VO18191867 - Finalized	29/08/2018	0.033	2.570	190.00	164.00	11.45	660.0	0.491	835.00	78.50	204.00	1 670.00
457241	43.00	45.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.096	3.030	175.50	198.50	14.50	2,370.0	0.719	1 500.00	131.00	270.00	3 030.00
457242	45.00	47.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.072	2.700	94.60	358.00	14.15	3,120.0	0.651	1 380.00	153.50	286.00	3 390.00
457243	47.00	49.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.064	3.140	362.00	458.00	15.95	3,410.0	0.333	1 180.00	149.00	295.00	2 500.00
457244	49.00	51.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.023	1.380	62.30	312.00	13.05	2,060.0	0.239	488.00	56.50	210.00	1 200.00
457245	51.00	53.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.052	3.260	204.00	290.00	15.40	3,170.0	0.393	1 130.00	130.00	240.00	2 690.00
457246	53.00	55.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.018	1.390	34.90	251.00	12.85	1,450.0	0.170	467.00	55.00	174.50	1 160.00
457247	55.00	57.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.019	0.850	53.50	113.00	9.34	356.0	0.189	200.00	13.70	114.00	491.00
457248	57.00	59.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.055	1.640	170.00	62.80	14.00	535.0	0.506	400.00	37.50	142.50	943.00
457250	59.00	61.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.050	1.640	113.50	74.00	12.75	342.0	0.415	284.00	23.80	137.50	815.00
457251	61.00	63.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.024	0.960	54.00	124.00	10.80	285.0	0.212	187.00	12.15	127.50	635.00
457252	63.00	65.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.022	1.060	46.80	108.00	9.64	114.0	0.175	168.00	10.45	110.50	189.00
457253	65.00	67.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.011	1.050	42.60	130.00	10.70	156.0	0.214	166.00	10.15	123.00	615.00
457254	67.00	69.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.011	0.960	35.30	132.50	10.95	144.0	0.106	159.00	9.99	123.50	357.00
457255	69.00	71.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.009	0.990	29.60	174.00	11.50	255.0	0.146	168.00	10.85	133.00	304.00
457257	71.00	73.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.035	1.900	69.30	147.00	12.90	1,120.0	0.383	443.00	45.70	149.50	1 300.00
457258	73.00	75.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.043	1.670	101.50	119.50	12.85	568.0	0.458	287.00	27.40	147.50	1 000.00
457259	75.00	77.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.039	1.500	116.00	119.50	12.35	733.0	0.501	356.00	29.90	143.50	889.00
457260	77.00	79.00	2.00	2	VO18191864 - Finalized	04/09/2018	0.029	1.180	80.60	154.50	11.20	365.0	0.452	252.00	19.50	161.00	728.00
457261	79.00	81.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.052	2.080	211.00	120.50	14.40	1,520.0	1.120	932.00	95.60	222.00	2 000.00
457262	81.00	83.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.064	3.180	131.00	369.00	17.20	667.0	1.135	1 660.00	162.50	348.00	3 940.00
457263	83.00	85.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.044	2.740	94.40	434.00	17.85	2,130.0	0.556	1 130.00	134.50	286.00	2 510.00
457264	85.00	87.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.041	3.010	53.80	430.00	19.30	884.0	0.888	1 690.00	186.00	336.00	4 360.00
457265	87.00	89.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.022	1.980	94.70	267.00	15.30	2,690.0	0.378	955.00	117.50	232.00	1 620.00
457266	89.00	91.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.026	1.940	46.10	413.00	16.80	4,010.0	0.348	1 000.00	128.00	281.00	1 930.00
457267	91.00	93.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.055	2.260	88.80	311.00	15.25	1,100.0	0.712	1 680.00	184.00	317.00	3 610.00
457268	93.00	95.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.040	1.690	196.00	128.00	12.80	295.0	0.872	1 370.00	130.50	362.00	2 090.00
457270	95.00	97.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.035	1.160	156.50	102.50	13.20	463.0	0.599	384.00	36.10	162.00	925.00
457271	97.00	99.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.019	0.870	68.90	272.00	10.70	380.0	0.295	245.00	18.65	164.50	623.00
457272	99.00	101.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.038	1.150	184.50	139.00	11.60	522.0	0.753	804.00	74.90	217.00	1 490.00
457273	101.00	103.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.068	1.680	282.00	153.50	12.15	114.0	1.095	2 000.00	202.00	466.00	2 540.00
457274	103.00	105.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.053	1.450	329.00	95.30	14.10	362.0	1.170	1 280.00	140.00	356.00	2 790.00
457275	105.00	107.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.044	1.480	269.00	168.50	14.05	162.0	0.961	2 080.00	200.00	498.00	2 070.00
457277	107.00	109.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.072	2.050	298.00	186.50	16.80	302.0	1.220	1 500.00	158.00	386.00	2 560.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457278	109.00	111.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.054	2.020	263.00	159.00	16.35	448.0	1.150	1 160.00	110.00	292.00	2 270.00
457279	111.00	113.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.046	1.720	182.50	285.00	14.95	1,080.0	0.810	794.00	102.00	269.00	2 480.00
457280	113.00	115.00	2.00	2	VO18191863 - Finalized	04/09/2018	0.039	2.150	146.50	290.00	15.05	1,270.0	0.791	1 140.00	135.50	265.00	2 600.00
457281	115.00	117.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.044	1.670	198.50	93.60	15.50	740.0	0.775	538.00	52.50	183.00	2 030.00
457282	117.00	119.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.034	1.240	113.00	183.00	12.75	503.0	0.422	268.00	21.00	154.50	1 010.00
457283	119.00	121.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.047	1.360	146.00	140.00	12.85	469.0	0.517	501.00	42.10	169.00	1 250.00
457284	121.00	123.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.063	1.780	245.00	177.00	14.60	281.0	0.809	1 210.00	107.50	330.00	2 110.00
457285	123.00	125.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.044	1.270	248.00	69.20	15.10	371.0	0.711	511.00	32.50	164.50	1 440.00
457286	125.00	127.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.063	1.540	264.00	70.90	15.50	771.0	0.854	774.00	68.90	235.00	1 790.00
457287	127.00	129.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.078	2.250	216.00	245.00	15.25	453.0	0.759	1 520.00	150.00	363.00	2 710.00
457288	129.00	131.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.062	2.260	175.00	309.00	15.35	596.0	0.593	1 160.00	116.50	294.00	1 980.00
457290	131.00	133.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.049	1.370	163.00	129.50	13.45	490.0	0.536	385.00	37.00	154.50	1 020.00
457291	133.00	135.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.033	1.050	80.80	148.00	10.75	196.0	0.309	209.00	14.45	127.00	618.00
457292	135.00	137.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.027	0.940	72.10	171.50	10.95	200.0	0.294	190.00	13.00	123.00	942.00
457293	137.00	139.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.045	1.310	132.00	153.50	13.40	158.0	0.436	281.00	25.80	152.00	825.00
457294	139.00	141.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.044	1.260	134.00	110.50	12.65	222.0	0.444	262.00	22.30	158.50	686.00
457295	141.00	143.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.060	1.670	175.00	103.50	14.60	379.0	0.542	374.00	39.10	164.00	788.00
457297	143.00	145.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.067	1.630	196.50	81.50	15.60	659.0	0.808	349.00	42.20	155.50	2 010.00
457298	145.00	147.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.062	1.740	198.50	108.50	15.05	364.0	0.704	415.00	44.10	176.00	1 020.00
457299	147.00	149.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.059	1.430	179.00	110.00	13.85	308.0	0.707	407.00	46.10	188.50	932.00
457300	149.00	151.00	2.00	2	VO18191862 - Finalized	02/09/2018	0.061	1.300	178.50	98.30	14.60	509.0	0.697	300.00	26.80	162.50	1 220.00
457301	151.00	153.00	2.00	2	VO18192974 - Finalized	04/09/2018	0.058	1.540	136.00	108.50	11.80	426.0	0.632	617.00	59.90	160.50	1 490.00
457302	153.00	155.00	2.00	2	VO18192974 - Finalized	04/09/2018	0.023	0.840	43.60	179.00	11.00	203.0	0.290	182.00	13.10	139.50	1 070.00
457303	155.00	157.00	2.00	2	VO18192974 - Finalized	04/09/2018	0.037	0.930	26.30	237.00	12.55	257.0	0.247	241.00	21.80	161.00	1 200.00
457304	157.00	159.00	2.00	2	VO18192974 - Finalized	04/09/2018	0.034	1.310	83.00	140.50	12.90	263.0	0.464	231.00	20.60	159.50	1 060.00
457305	159.00	161.00	2.00	2	VO18192974 - Finalized	04/09/2018	0.065	1.910	71.90	268.00	14.55	365.0	0.730	750.00	82.60	165.50	2 610.00
457306	161.00	163.00	2.00	2	VO18192974 - Finalized	04/09/2018	0.018	0.770	11.00	239.00	8.13	1,140.0	0.339	581.00	37.10	121.00	1 270.00
457307	163.00	164.40	1.40	2	VO18192974 - Finalized	04/09/2018	0.012	1.100	10.60	230.00	9.06	1,570.0	0.231	718.00	105.50	150.00	706.00
457308	164.40	166.00	1.60	2	VO18192974 - Finalized	04/09/2018	0.006	0.200	4.80	55.30	10.80	2,740.0	0.025	110.00	4.04	32.00	151.00
457310	166.00	168.00	2.00	2	VO18192974 - Finalized	04/09/2018	0.007	0.460	12.00	147.00	13.70	2,140.0	0.072	230.00	16.45	50.00	435.00
457311	168.00	170.00	2.00	2	VO18192974 - Finalized	04/09/2018	0.009	0.490	14.40	171.50	15.15	2,160.0	0.040	152.00	5.03	49.60	183.00
457312	170.00	170.80	0.80	2	VO18192974 - Finalized	04/09/2018	0.005	0.460	0.80	142.50	11.15	611.0	0.044	178.00	4.16	76.00	170.00
457313	170.80	172.00	1.20	2	VO18192974 - Finalized	04/09/2018	0.015	1.460	3.90	669.00	24.40	190.0	0.231	548.00	62.60	253.00	1 160.00
457314	172.00	174.00	2.00	2	VO18192974 - Finalized	04/09/2018	0.024	1.160	15.30	300.00	9.45	530.0	0.481	943.00	85.90	173.00	2 920.00
457315	174.00	176.00	2.00	2	VO18192974 - Finalized	04/09/2018	0.025	1.430	52.50	245.00	12.10	1,170.0	0.392	543.00	72.40	206.00	1 400.00
457317	176.00	178.00	2.00	2	VO18192974 - Finalized	04/09/2018	0.024	1.090	118.50	115.50	12.65	434.0	0.598	267.00	27.00	163.00	958.00
457318	178.00	180.00	2.00	2	VO18192974 - Finalized	04/09/2018	0.026	1.440	141.00	146.00	14.90	604.0	0.793	370.00	46.40	188.00	1 280.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457319	180.00	182.00	2.00	2	VO18192974 - Finalized	04/09/2018	0.031	1.350	79.10	216.00	13.15	1,850.0	0.516	540.00	86.00	211.00	1 220.00
457320	182.00	184.00	2.00	2	VO18192974 - Finalized	04/09/2018	0.015	0.830	80.40	126.00	11.15	533.0	0.414	211.00	16.15	147.00	637.00
457321	184.00	186.00	2.00	2	VO18192970 - Finalized	01/09/2018	0.010	1.000	84.30	114.00	11.40	106.0	0.434	227.00	16.50	142.00	530.00
457322	186.00	188.00	2.00	2	VO18192970 - Finalized	01/09/2018	0.036	1.250	122.50	111.00	13.45	526.0	0.698	405.00	47.80	182.50	1 500.00
457323	188.00	190.00	2.00	2	VO18192970 - Finalized	01/09/2018	0.015	1.020	76.60	144.50	12.50	156.0	0.444	214.00	17.45	150.50	938.00
457324	190.00	192.00	2.00	2	VO18192970 - Finalized	01/09/2018	0.011	0.790	50.80	162.50	11.90	269.0	0.232	177.00	14.00	138.50	733.00
457325	192.00	194.00	2.00	2	VO18192970 - Finalized	01/09/2018	0.008	0.800	54.60	143.50	11.35	152.0	0.170	163.00	12.85	124.50	478.00
457326	194.00	196.00	2.00	2	VO18192970 - Finalized	01/09/2018	0.019	1.120	76.30	110.50	11.45	186.0	0.399	224.00	21.40	154.00	1 360.00
457327	196.00	198.00	2.00	2	VO18192970 - Finalized	01/09/2018	0.032	2.310	38.60	262.00	16.45	307.0	0.237	410.00	51.80	238.00	1 330.00
457328	198.00	200.00	2.00	2	VO18192970 - Finalized	01/09/2018	0.024	1.510	49.00	158.00	13.15	141.0	0.363	220.00	23.00	165.50	946.00
457330	200.00	202.00	2.00	2	VO18192970 - Finalized	01/09/2018	0.018	0.750	56.30	94.20	10.55	156.0	0.241	176.00	14.80	126.00	702.00
457331	202.00	204.00	2.00	2	VO18192970 - Finalized	01/09/2018	0.051	1.000	75.70	86.60	11.80	100.0	0.346	187.00	16.75	125.50	873.00
457332	204.00	206.00	2.00	2	VO18192970 - Finalized	01/09/2018	0.030	1.020	56.10	103.00	10.80	85.0	0.320	194.00	15.65	133.00	847.00
457333	206.00	208.00	2.00	2	VO18192970 - Finalized	01/09/2018	0.054	1.120	58.40	116.50	11.80	142.0	0.312	178.00	14.90	141.50	852.00
457334	208.00	210.00	2.00	2	VO18192970 - Finalized	01/09/2018	0.025	1.070	24.00	149.50	12.55	178.0	0.178	195.00	16.45	146.00	683.00
457335	210.00	210.50	0.50	2	VO18192970 - Finalized	01/09/2018	0.003	0.420	4.20	60.00	10.40	2,390.0	0.023	159.00	21.00	59.40	54.00
457337	210.50	212.00	1.50	2	VO18192970 - Finalized	01/09/2018	0.001	0.040	0.50	4.70	12.85	2,320.0	0.008	6.00	0.43	3.90	11.00
457338	212.00	213.00	1.00	2	VO18192970 - Finalized	01/09/2018	0.001	0.030	0.40	2.10	11.20	3,230.0	0.009	14.00	0.63	3.70	23.00
457339	213.00	214.00	1.00	2	VO18192970 - Finalized	01/09/2018	0.001	0.050	0.80	7.90	19.35	9,320.0	0.006	43.00	0.92	8.50	46.00
457340	214.00	215.00	1.00	2	VO18192970 - Finalized	01/09/2018	0.001	0.010	0.40	3.20	18.70	10,200.0	0.003	36.00	0.48	8.90	24.00
457341	215.00	216.00	1.00	2	VO18192967 - Finalized	02/09/2018	0.014	0.030	0.80	5.50	19.65	12,100.0	0.003	48.00	0.48	8.90	31.00
457342	216.00	217.00	1.00	2	VO18192967 - Finalized	02/09/2018	0.001	0.030	0.60	8.40	19.95	17,550.0	0.013	74.00	0.59	14.20	37.00
457343	217.00	218.00	1.00	2	VO18192967 - Finalized	02/09/2018	0.001	0.020	4.20	7.10	21.50	19,400.0	0.005	65.00	0.42	9.50	17.00
457344	218.00	218.50	0.50	2	VO18192967 - Finalized	02/09/2018	0.001	0.040	1.80	7.80	20.70	32,900.0	0.005	79.00	0.50	11.60	37.00
457345	218.50	220.00	1.50	2	VO18192967 - Finalized	02/09/2018	0.003	0.160	0.60	29.80	9.70	3,100.0	0.003	145.00	2.61	41.40	154.00
457346	220.00	222.00	2.00	2	VO18192967 - Finalized	02/09/2018	0.001	0.160	1.00	38.00	8.23	11,950.0	0.003	163.00	1.10	44.70	131.00
457347	222.00	224.00	2.00	2	VO18192967 - Finalized	02/09/2018	0.001	0.230	6.80	36.80	7.86	12,050.0	0.012	139.00	0.83	41.50	209.00
457348	224.00	226.00	2.00	2	VO18192967 - Finalized	02/09/2018	0.001	0.270	2.60	24.10	7.78	12,550.0	0.007	124.00	0.98	39.90	153.00
457350	226.00	228.00	2.00	2	VO18192967 - Finalized	02/09/2018	0.004	0.230	3.80	29.80	7.68	10,950.0	0.006	121.00	1.99	40.60	162.00
457351	228.00	230.00	2.00	2	VO18192967 - Finalized	02/09/2018	0.003	0.190	1.90	38.00	6.96	7,350.0	0.020	130.00	0.82	41.90	372.00
457352	230.00	232.00	2.00	2	VO18192967 - Finalized	02/09/2018	0.002	0.380	0.10	37.10	7.57	11,100.0	0.009	118.00	3.45	45.50	210.00
457353	232.00	234.00	2.00	2	VO18192967 - Finalized	02/09/2018	0.002	0.220	0.80	32.70	7.82	11,900.0	0.008	133.00	1.11	42.80	196.00
457354	234.00	236.00	2.00	2	VO18192967 - Finalized	02/09/2018	0.004	0.190	1.30	36.00	7.87	12,600.0	0.007	143.00	0.82	40.30	233.00
457355	236.00	238.00	2.00	2	VO18192967 - Finalized	02/09/2018	0.003	0.250	0.40	34.10	8.10	11,250.0	0.009	157.00	1.18	46.30	237.00
457357	238.00	240.00	2.00	2	VO18192967 - Finalized	02/09/2018	0.004	0.210	0.60	32.30	8.87	11,250.0	0.003	154.00	1.29	45.70	111.00
457358	240.00	242.00	2.00	2	VO18192967 - Finalized	02/09/2018	0.002	0.150	0.60	29.90	8.91	13,550.0	0.003	158.00	0.94	43.00	157.00
457359	242.00	244.00	2.00	2	VO18192967 - Finalized	02/09/2018	0.002	0.240	0.80	39.50	7.90	11,000.0	0.014	155.00	1.11	46.20	212.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457360	244.00	246.00	2.00	2	VO18192967 - Finalized	02/09/2018	0.001	0.120	0.80	21.40	11.40	13,200.0	0.003	100.00	0.56	34.60	103.00
457361	246.00	248.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.080	0.40	18.10	11.40	13,350.0	0.003	85.00	1.34	29.40	82.00
457362	248.00	250.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.140	0.20	16.70	10.75	12,050.0	0.003	93.00	1.25	30.40	78.00
457363	250.00	252.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.080	0.20	16.10	11.45	13,550.0	0.003	87.00	1.06	29.10	75.00
457364	252.00	254.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.100	0.90	12.60	9.24	12,050.0	0.003	92.00	1.06	28.60	80.00
457365	254.00	256.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.060	0.20	18.20	11.40	13,350.0	0.007	87.00	1.29	29.00	88.00
457366	256.00	258.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.100	0.70	23.00	9.97	9,300.0	0.003	125.00	0.96	33.70	126.00
457367	258.00	260.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.005	0.180	0.10	27.90	8.58	445.0	0.003	161.00	2.13	44.00	156.00
457368	260.00	262.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.008	0.240	0.50	39.10	12.15	492.0	0.007	178.00	5.63	46.20	202.00
457370	262.00	264.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.003	0.150	0.10	37.10	8.02	3,620.0	0.007	144.00	0.98	45.00	154.00
457371	264.00	266.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.150	0.10	26.30	10.45	10,700.0	0.003	117.00	1.17	36.40	90.00
457372	266.00	268.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.070	1.30	17.40	9.56	9,640.0	0.009	98.00	0.81	36.10	106.00
457373	268.00	270.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.110	0.20	20.90	8.35	8,240.0	0.005	96.00	1.13	32.60	82.00
457374	270.00	272.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.060	3.20	17.50	4.70	1,540.0	0.006	77.00	1.02	28.40	74.00
457375	272.00	274.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.080	0.20	19.20	4.05	845.0	0.006	75.00	0.86	25.70	88.00
457377	274.00	276.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.100	0.20	20.40	9.19	9,420.0	0.003	90.00	1.60	30.30	77.00
457378	276.00	278.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.060	0.80	16.30	15.70	15,300.0	0.003	72.00	0.91	19.30	46.00
457379	278.00	280.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.100	1.40	24.70	9.75	5,930.0	0.003	152.00	0.95	40.70	108.00
457380	280.00	282.00	2.00	2	VO18198532 - Finalized	02/09/2018	0.001	0.080	0.10	19.70	10.50	12,850.0	0.003	91.00	0.71	32.20	72.00
457381	282.00	284.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.001	0.110	0.20	17.70	13.20	16,250.0	0.003	90.00	1.04	28.20	80.00
457382	284.00	286.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.001	0.230	0.30	20.00	12.35	14,950.0	0.003	104.00	1.02	27.50	89.00
457383	286.00	288.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.001	0.080	0.10	17.00	10.20	10,600.0	0.003	103.00	0.74	29.80	82.00
457384	288.00	290.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.001	0.150	0.60	18.00	9.29	9,810.0	0.003	110.00	0.83	31.60	78.00
457385	290.00	292.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.001	0.170	0.10	17.40	9.68	11,350.0	0.003	103.00	1.09	30.30	77.00
457386	292.00	294.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.001	0.080	0.10	14.10	9.11	10,250.0	0.003	114.00	0.86	28.10	76.00
457387	294.00	296.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.001	0.190	0.30	18.90	10.05	11,500.0	0.003	101.00	1.45	32.70	75.00
457388	296.00	298.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.001	0.100	0.30	18.40	10.70	12,300.0	0.003	103.00	2.28	30.40	72.00



## Detailed Log Report Hole Number OSK-KAN-18-019

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>		<b>Collar Dip:</b>	70.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>		<b>Collar Az:</b>	250.00
<b>Start Date:</b>	August 6, 2018	<b>East:</b>		<b>Length:</b>	247.00
<b>Completed Date:</b>	August 10, 2018	<b>Elev:</b>		<b>Hole Type:</b>	DDH
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Casing Length:</b>	48.00
<b>Logger 1:</b>	Cynthia Lee			<b>Capped:</b>	N
<b>Target:</b>	Interpreted D1 and D2 antiform			<b>Multi Shot:</b>	N
<b>Area:</b>	SURFACE			<b>Claims Title:</b>	2099220
<b>Surveyor:</b>	NA			<b>NTS:</b>	24F06
				<b>Log Complete:</b>	N
				<b>Left In Hole:</b>	Casing

### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	47.00	<b>OVB, Overburden</b>					
<b>Comments:</b>							
47.00	69.20	<b>S6, Mudrock</b>	457390	47.00	49.00	2.00	
<b>Comments:</b>							
			457391	49.00	51.00	2.00	S6 GP; Qtz-1 Carb-1; 4% Py SUB BD 4% Po LA BD; 3% I1N QZ 5 cm; FLD 5
			457392	51.00	53.00	2.00	S6 GP; Qtz-1 Carb-1; 4% Py SUB BD 4% Po LA BD; 3% I1N QZ 5 cm; FLD 5
			457393	53.00	55.00	2.00	S6 GP; Qtz-1 Carb-1; 4% Py SUB BD 4% Po LA BD; 3% I1N QZ 5 cm; FLD 5
			457394	55.00	57.00	2.00	S6 GP; Qtz-1 Carb-1; 4% Py SUB BD 4% Po LA BD; 3% I1N QZ 5 cm; FLD 5
			457395	57.00	59.00	2.00	S6 GP; Qtz-1 Carb-1; 4% Py SUB BD 4% Po LA BD; 3% I1N QZ 5 cm; FLD 5
			457397	59.00	61.00	2.00	S6 GP; Qtz-1 Carb-1; 4% Py SUB BD 4% Po LA BD; 3% I1N QZ 5 cm; FLD 5
			457398	61.00	63.00	2.00	S6 GP; Qtz-1 Carb-1; 4% Py SUB BD 4% Po LA BD; 3% I1N QZ 5 cm; FLD 5
			457399	63.00	65.00	2.00	S6 GP; Qtz-1 Carb-1; 4% Py SUB BD 4% Po LA BD; 3% I1N QZ 5 cm; FLD 5
			457400	65.00	67.00	2.00	S6 GP; Qtz-1 Carb-1; 4% Py SUB BD 4% Po LA BD; 3% I1N QZ 5 cm; FLD 5
			557401	67.00	68.00	1.00	S6 GP; Qtz-1 Carb-1; 6% Py SUB BD 2% Po LA BD; 3% I1N QZ 5 cm; FLD 5
			557402	68.00	69.20	1.20	S6 GP; Qtz-1 Carb-1; 6% Py SUB BD 2% Po LA BD; 3% I1N QZ 5 cm; FO 5
69.20	72.20	<b>I3A, Gabbro</b>	557403	69.20	71.00	1.80	I3A Chl-Ank; Carb-1 Carb-1; 2% Py SUB SCH 1% Po AL VN 0.5% Py SUB VN; FO 4
<b>Comments:</b>							
			557404	71.00	72.20	1.20	I3A Chl-Ank; Carb-1 Carb-1; 2% Py SUB SCH 1% Po AL VN 0.5% Py SUB VN; FO 4

Cynthia Lee, Ing. Jr. OIQ : 5082751



From	To	Lithology	Sample	From	To	Length	Comments
72.20	152.00	S6, Mudrock	557405	72.20	74.00	1.80	S6 GP; Carb-1; 4% Py SUB BD 4% Po LA BD; 1% I1N QZ CB
<b>Comments:</b>			557406	74.00	76.00	2.00	; Carb-1; 4% Py SUB BD 4% Po LA BD
			557407	76.00	78.00	2.00	; Carb-1; 4% Py SUB BD 4% Po LA BD
			557408	78.00	80.00	2.00	S6; Carb-1; 4% Py SUB BD 4% Po LA BD; 2% I1N QZ CB
			557410	80.00	82.00	2.00	; 4% Py SUB BD 4% Po LA BD
			557411	82.00	84.00	2.00	S6; Sil-1 Sil-1 Carb-1; 4% Py SUB BD 4% Po LA BD; 5% I1N QZ CB
			557412	84.00	86.00	2.00	S6 GP; Sil-2 Carb-1; 4% Py SUB BD 4% Po LA BD; 1% I1N QZ CB
			557413	86.00	88.00	2.00	S6 GP; 4% Py SUB BD 4% Po LA BD; 1% I1N QZ CB
			557414	88.00	90.00	2.00	S6 GP; 4% Py SUB BD 4% Po LA BD; 1% I1N QZ CB
			557415	90.00	92.00	2.00	S6 GP; Carb-1 Qtz-1; 4% Py SUB BD 4% Po LA BD; 1% I1N QZ CB
			557417	92.00	94.00	2.00	S6 GP; Carb-1 Qtz-1; 4% Py SUB BD 4% Po LA BD; 1% I1N QZ CB
			557418	94.00	95.70	1.70	S6 GP; Carb-1 Qtz-1; 4% Py SUB BD 4% Po LA BD; 1% I1N QZ CB
			557419	97.60	99.50	1.90	S6 GP; Carb-1 Qtz-1; 4% Py SUB BD 4% Po LA BD; 1% I1N QZ CB
			557420	99.50	101.50	2.00	S6 GP; Carb-1 Qtz-1; 4% Py SUB BD 4% Po LA BD; 1% I1N QZ CB
			557421	102.40	104.00	1.60	S6 GP; Carb-1 Qtz-1; 4% Py SUB BD 4% Po LA BD; 1% I1N QZ CB
			557422	104.00	106.00	2.00	S6 GP; Carb-1 Qtz-1; 4% Py SUB BD 4% Po LA BD; 1% I1N QZ CB
			557423	106.00	108.00	2.00	S6 GP; Carb-1 Qtz-1; 4% Py SUB BD 4% Po LA BD; 1% I1N QZ CB
			557424	108.00	110.00	2.00	S6 GP; Carb-1 Qtz-1; 4% Py SUB BD 4% Po LA BD; 1% I1N QZ CB
			557425	110.00	112.00	2.00	S6 GP; Carb-1 Qtz-1; 4% Py SUB BD 4% Po LA BD; 1% I1N QZ CB
			557426	112.00	114.00	2.00	S6 GP; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB
			557427	114.00	116.00	2.00	S6 GP; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB
			557428	116.00	118.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB
			557430	118.00	120.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB
			557431	120.00	122.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB
		557432	122.00	124.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB	
		557433	124.00	126.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB	
		557434	126.00	128.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB	
		557435	128.00	130.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB	
		557437	130.00	132.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB	
		557438	132.00	134.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB	
		557439	134.00	136.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB	
		557440	136.00	138.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB	
		557441	138.00	140.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB	
		557442	140.00	142.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB	
		557443	142.00	144.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SUB BD 5% Po LA BD; 3% I1N QZ CB	
		557444	144.00	146.00	2.00	S6 GP; Carb-1 Qtz-1; 8% Po IG BD; 3% I1N QZ CB	
		557445	146.00	148.00	2.00	S6 GP; Carb-1 Qtz-1; 8% Po IG BD; 3% I1N QZ CB	
		557446	148.00	150.00	2.00	S6 GP; Carb-1 Qtz-1; 8% Po IG BD; 3% I1N QZ CB	
		557447	150.00	152.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py LA SCH; 3% I1N QZ CB	

From	To	Lithology	Sample	From	To	Length	Comments	
152.00	164.20	<b>S9, Iron formation</b>	557448	152.00	153.00	1.00	S9C; Qtz-3 Ank-2 Ser-2; 1% Po AL VN 0.5% Py AL VN; 1% I1N QZ AK	
			557450	153.00	154.00	1.00	; Qtz-3 Ank-2 Ser-2; 1% Po AL VN 0.5% Py AL VN; 1% I1N QZ AK	
			<b>Comments:</b>	557451	154.00	155.00	1.00	S9C Sid; Qtz-3 Ank-2 Ser-2; 1% Po AL VN 0.5% Py AL VN; 10% I1N QZ AK
			557452	155.00	156.00	1.00	S9C Sid; Qtz-3 Ank-2 Ser-2; 1% Po AL VN 0.5% Py AL VN; 10% I1N QZ AK	
			557453	156.00	157.00	1.00	S9C Sid; Qtz-3 Ank-2 Ser-2; 1% Po AL VN 0.5% Py AL VN; 10% I1N QZ AK	
			557454	157.00	158.00	1.00	; 1% Po AL VN 0.5% Py AL VN	
			557455	158.00	159.00	1.00	S9C Sid; Sil-2; 1% Po AL VN 0.5% Py AL VN; 3% I1N QZ AK	
			557457	159.00	160.00	1.00	S9C Sid; Sil-2; 1% Po AL VN 0.5% Py AL VN; 3% I1N QZ AK	
			557458	160.00	161.00	1.00	S9C Sid; Sil-2; 1% Po AL VN 0.5% Py AL VN; 3% I1N QZ AK	
			557459	161.00	162.00	1.00	S9C Sid; Sil-2; 1% Po AL VN 0.5% Py AL VN; 3% I1N QZ AK	
			557460	162.00	163.00	1.00	S9C Sid; Sil-2; 1% Po AL VN 0.5% Py AL VN; 3% I1N QZ AK	
557461	163.00	164.20	1.20	; 3% I1N QZ AK				
164.20	170.10	<b>S6g, Grey Shale</b>	557462	164.20	166.00	1.80	S6g GP; Carb-1 Ank-1; 0.5% Po AL VN 0.1% Py AL VN; 1% I1N QZ AK	
			<b>Comments:</b>	557463	166.00	168.00	2.00	S6g GP; Carb-1 Ank-1; 0.5% Po AL VN 0.1% Py AL VN; 1% I1N QZ AK
			557464	168.00	170.10	2.10	S6g GP; Carb-1 Ank-1; 0.5% Po AL VN 0.1% Py AL VN; 1% I1N QZ AK	
170.10	175.30	<b>S9, Iron formation</b>	555455	170.10	171.00	0.90	S9C Sid; Sil-2 Ank-1 Ser-1; 0.5% Po LA BD; 1% I1N QZ AK	
			<b>Comments:</b>	555456	171.00	172.00	1.00	S9C Sid; Sil-2 Ank-1 Ser-1; 0.5% Po LA BD; 1% I1N QZ AK
			555457	172.00	173.00	1.00	S9C Sid; Sil-2 Ank-1 Ser-1; 0.5% Po LA BD; 1% I1N QZ AK	
			555458	173.00	174.00	1.00	S9C Sid; Sil-2 Ank-1 Ser-1; 0.5% Po LA BD; 1% I1N QZ AK	
			555460	174.00	175.30	1.30	S9C Sid; Sil-2 Ank-1 Ser-1; 0.5% Po LA BD; 1% I1N QZ AK	
175.30	210.70	<b>S6g, Grey Shale</b>	557465	175.30	177.00	1.70	; Sil-1 Ank-1 Ser-1; 0.5% Po AL VN 0.1% Po LA BD; 2% I1N QZ CB	
			<b>Comments:</b>	557466	177.00	179.00	2.00	S6g; Sil-1 Ank-1 Ser-1; 0.5% Po AL VN 0.1% Po LA BD; 2% I1N QZ CB
			557467	179.00	181.00	2.00	S6g; Sil-1 Ank-1 Ser-1; 0.5% Po AL VN 0.1% Po LA BD; 2% I1N QZ CB	
			557468	181.00	183.00	2.00	S6g; Sil-1 Ank-1 Ser-1; 0.5% Po AL VN 0.1% Po LA BD; 2% I1N QZ CB	
			557470	183.00	185.00	2.00	S6g; Sil-1 Ank-1 Ser-1; 0.5% Po AL VN 0.1% Po LA BD; 2% I1N QZ CB	
			557471	185.00	187.00	2.00	S6g; Sil-1 Ank-1 Ser-1; 0.5% Po AL VN 0.1% Po LA BD; 2% I1N QZ CB	
			557472	187.00	189.00	2.00	S6g; Qtz-5 Ank-3 Ser-2 Sil-1; 3% Po AL VN; 10% I1N QZ AK; FO 5	
			557473	189.00	191.00	2.00	; Qtz-5 Ank-3 Ser-2 Sil-1; 3% Po AL VN; 10% I1N QZ AK; FO 5	
			557474	191.00	193.00	2.00	S6g; Qtz-1 Carb-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557475	193.00	195.00	2.00	S6g; Qtz-1 Carb-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557477	195.00	197.00	2.00	S6g; Qtz-1 Carb-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557478	197.00	199.00	2.00	S6g; Qtz-1 Carb-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557479	199.00	201.00	2.00	S6g; Qtz-1 Carb-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557480	201.00	203.00	2.00	S6g; Qtz-1 Carb-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557481	203.00	205.00	2.00	S6g; Qtz-1 Carb-1; 0.1% Po LA BD; 2% I1N QZ CB	
557482	205.00	207.00	2.00	S6g; Qtz-1 Carb-1; 0.1% Po LA BD; 2% I1N QZ CB				
557483	207.00	209.00	2.00	S6g; Qtz-1 Carb-1; 0.1% Po LA BD; 2% I1N QZ CB				
557484	209.00	210.70	1.70	S6g; 2% Po AL VN; 8% I1N QZ AK				

From	To	Lithology	Sample	From	To	Length	Comments	
210.70	216.20	<b>S9, Iron formation</b>	555461	210.70	212.00	1.30	S9C Sid; Sil-1 Ank-3 Qtz-2 Carb-2; 1% Po AL VN; 5% I1N QZ AK	
			555462	212.00	213.00	1.00	S9C Sid; Sil-1 Ank-3 Qtz-2 Carb-2; 1% Po AL VN; 5% I1N QZ AK	
			<b>Comments:</b>	555463	213.00	214.00	1.00	S9C Sid; 1% Po AL VN; 5% I1N QZ AK
			555464	214.00	215.00	1.00	S9C Sid; Sil-1 Qtz-1; 1% Po AL VN; 5% I1N QZ AK	
			555465	215.00	216.20	1.20	S9C Sid; Sil-1 Qtz-1; 1% Po AL VN; 5% I1N QZ AK	
216.20	247.00	<b>S6g, Grey Shale</b>	557485	216.20	218.00	1.80	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557486	218.00	220.00	2.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	
			<b>Comments:</b>	557487	220.00	222.00	2.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB
			557488	222.00	224.00	2.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557490	224.00	226.00	2.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557491	226.00	228.00	2.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557492	228.00	230.00	2.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557493	230.00	232.00	2.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557494	232.00	234.00	2.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557495	234.00	236.00	2.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557497	236.00	238.00	2.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557498	238.00	240.00	2.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557499	240.00	242.00	2.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557500	242.00	244.00	2.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557501	244.00	245.00	1.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	
			557502	245.00	247.00	2.00	S6g; Qtz-1; 0.1% Po LA BD; 2% I1N QZ CB	

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
16.00	335.20	-71.20	FM	Test Non-OK	
19.00	312.40	-70.70	FM	Test Non-OK	
22.00	0.30	-76.00	FM	Test Non-OK	
25.00	330.60	-70.10	FM	Test Non-OK	
28.00	357.80	-71.30	FM	Test Non-OK	
31.00	317.90	-69.60	FM	Test Non-OK	
34.00	330.70	-69.40	FM	Test Non-OK	
37.00	10.60	-68.80	FM	Test Non-OK	
40.00	350.20	-69.10	FM	Test Non-OK	
43.00	327.00	-69.30	FM	Test Non-OK	
46.00	26.30	-69.60	FM	Test Non-OK	
49.00	315.50	-69.70	FM	Test Non-OK	
52.00	302.50	-70.10	FM	Test Non-OK	
55.00	325.70	-69.80	FM	Test Non-OK	
58.00	255.30	-69.80	FM	Test Non-OK	
61.00	245.90	-69.80	FM	Test Non-OK	
64.00	246.80	-69.70	FM	Test OK-Accept	
67.00	246.50	-69.70	FM	Test Non-OK	
70.00	237.90	-69.60	FM	Test Non-OK	
73.00	249.00	-69.50	FM	Test Non-OK	
76.00	245.60	-69.10	FM	Test Non-OK	
79.00	243.20	-69.30	FM	Test Non-OK	
82.00	247.40	-69.30	FM	Test OK-Accept	
85.00	246.50	-69.20	FM	Test Non-OK	
88.00	238.20	-69.10	FM	Test OK-Accept	
91.00	243.90	-69.10	FM	Test Non-OK	
94.00	246.60	-69.00	FM	Test OK-Accept	
97.00	243.10	-68.90	FM	Test Non-OK	
100.00	248.90	-68.60	FM	Test Non-OK	
103.00	245.00	-68.80	FM	Test OK-Accept	
106.00	243.30	-68.70	FM	Test OK-Accept	
109.00	244.40	-68.70	FM	Test OK-Accept	
112.00	245.60	-68.70	FM	Test OK-Accept	
115.00	246.00	-68.70	FM	Test Non-OK	
118.00	249.70	-67.30	FM	Test OK-Accept	
121.00	245.90	-68.60	FM	Test OK-Accept	
124.00	247.50	-68.50	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
127.00	253.50	-66.50	FM	Test Non-OK	
130.00	232.30	-71.40	FM	Test Non-OK	
133.00	247.90	-68.50	FM	Test OK-Accept	
136.00	244.50	-68.60	FM	Test OK-Accept	
139.00	248.00	-68.40	FM	Test OK-Accept	
142.00	249.50	-68.40	FM	Test OK-Accept	
145.00	248.10	-68.40	FM	Test OK-Accept	
148.00	248.80	-68.30	FM	Test Non-OK	
151.00	246.30	-68.50	FM	Test OK-Accept	
154.00	248.60	-68.20	FM	Test OK-Accept	
157.00	256.80	-69.20	FM	Test Non-OK	
160.00	249.40	-68.40	FM	Test OK-Accept	
163.00	250.00	-68.40	FM	Test OK-Accept	
166.00	249.50	-68.40	FM	Test OK-Accept	
169.00	248.80	-68.50	FM	Test OK-Accept	
172.00	248.30	-68.40	FM	Test OK-Accept	
175.00	251.20	-67.70	FM	Test Non-OK	
178.00	247.90	-68.40	FM	Test OK-Accept	
181.00	248.30	-68.30	FM	Test OK-Accept	
184.00	248.10	-68.30	FM	Test OK-Accept	
187.00	250.00	-67.90	FM	Test OK-Accept	
190.00	248.20	-68.10	FM	Test OK-Accept	
193.00	248.40	-68.00	FM	Test OK-Accept	
196.00	248.80	-67.90	FM	Test OK-Accept	
199.00	248.60	-67.70	FM	Test OK-Accept	
202.00	249.20	-67.40	FM	Test OK-Accept	
205.00	249.70	-67.30	FM	Test OK-Accept	
208.00	249.60	-67.20	FM	Test OK-Accept	
211.00	249.80	-67.10	FM	Test OK-Accept	
214.00	250.50	-67.00	FM	Test OK-Accept	
217.00	247.70	-66.90	FM	Test OK-Accept	
220.00	248.80	-67.10	FM	Test OK-Accept	
223.00	249.80	-67.10	FM	Test OK-Accept	
226.00	249.80	-66.90	FM	Test OK-Accept	
229.00	249.90	-66.90	FM	Test OK-Accept	
232.00	251.30	-65.80	FM	Test Non-OK	
235.00	250.10	-66.50	FM	Test OK-Accept	
238.00	249.50	-66.40	FM	Test Non-OK	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
241.00	297.30	-51.90	FM		Test Non-OK
244.00	250.70	-66.20	FM		Test OK-Accept
247.00	251.10	-66.20	FM		Test OK-Accept

## Lithology Data

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
48.00	69.20	S6	BD				S6 GP			BK		1	Aph		68.00	DIF	strongly deformed by D1
69.20	72.20	I3A	CS				I3A Chl-Ank			GL	GN	2	FG		75.00	SHP	
72.20	75.50	S6	BD	HJ			S6 GP			BK		1	Aph				VN
75.50	77.10	S6	BD	IU			S6 GP			BK		1	Aph				
77.10	80.70	S6	BD	HJ	RU		S6			BK		1	Aph				
80.70	84.00	S6	BD	RU	HJ		S6	50.00	Silica	GL	BK	2	Aph				unit with interbedded black shale and siliceous chert, bands of 1cm
84.00	152.00	S6	BD	HJ			S6 GP	2.00	Silica	BK		1	Aph		60.00	SHP	
152.00	153.30	S9	MA				S9C			GM		3	FG				VN massive, granular interval containing 2-3% centimetric fragments.
153.30	157.10	S9	IU	BD			S9C Sid			GM		3	FG				VN interval injected with 10\$ decimetric quartz veins
157.10	163.70	S9	BD	RU	HJ		S9C Sid	7.00	Silica	GM	BG	3	FG				DIF
163.70	164.20	S9	BD	IU			S6 GP			BK		2	Aph		76.00	SHP	
164.20	170.10	S6g	BD	CS			S6g GP			GD	GM		Aph				
170.10	175.30	S9	BD				S9C Sid			GM	GL	3	FG				
175.30	176.10	S6g	PI	CS	BD		S6g			GM		2	FG				phenocrystic facies?
176.10	187.00	S6g	CS	BD	RU	HJ	S6g			GM		2	FG				
187.00	190.40	S6g	IU	CS	BD	RU	S6g			GM	GL	2	FG				interval injected with 8-10% quartz-ankerite-sericite-pyrrhotite veins. strong expression of S2. change of S0 direction from one side to the other of a quartz-ankerite-sericite-pyrrhotite veins at 187.4m.
190.40	210.70	S6g	CS	BD	RU	HJ	S6g			GM		2	FG		60.00	SHP	
210.70	216.20	S9	BD	RU	HK		S9C Sid	3.00	Silica	GM		3	FG				SHP

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
216.20	247.00	S6g	BD	CS	RU	HJ	S6g			GM			Aph				

**Mineralization Data**

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
48.00	67.00		Py	4.00	SUB	BD		Po	4.00	LA	BD						
67.00	69.20		Py	6.00	SUB	BD		Po	2.00	LA	BD						
69.20	72.20		Py	2.00	SUB	SCH		Po	1.00	AL	VN		Py	0.50	SUB	VN	
72.20	112.00		Py	4.00	SUB	BD		Po	4.00	LA	BD						
112.00	144.00		Py	3.00	SUB	BD		Po	5.00	LA	BD						
144.00	151.00		Po	8.00	IG	BD											
151.00	152.00		Py	3.00	LA	SCH											
152.00	164.10		Po	1.00	AL	VN		Py	0.50	AL	VN						
164.10	170.10		Po	0.50	AL	VN		Py	0.10	AL	VN						
170.10	175.30		Po	0.50	LA	BD											
175.30	187.00		Po	0.50	AL	VN		Po	0.10	LA	BD						
187.00	191.00		Po	3.00	AL	VN											
191.00	209.30		Po	0.10	LA	BD											
209.30	210.70		Po	2.00	AL	VN											
210.70	216.20		Po	1.00	AL	VN											
216.20	247.00		Po	0.10	LA	BD											



## Alteration Data

From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
48.00	69.20	Qtz	1	VN	Carb	1	VN				
69.20	72.20	Carb	1	PEN	Carb	1	SCH				
72.20	80.70	Carb	1	VN							
80.70	84.00	Sil	1	VN	Sil	1	PEN	Carb	1	VN	
84.00	87.50	Sil	2	PEN	Carb	1	VN				
87.50	88.90	Carb	2	RU							
88.90	113.00	Carb	1	VN	Qtz	1	VN				
113.00	114.30	Carb	1	VN	Qtz	1	VN	Sil	1	PEN	
114.30	152.00	Carb	1	VN	Qtz	1	VN				
152.00	157.10	Qtz	3	VN	Ank	2	VN	Ser	2	VN	
157.10	164.10	Sil	2	PEN							
164.10	170.10	Carb	1	VN	Ank	1	VN				
170.10	175.30	Sil	2	PEN	Ank	1	VN	Ser	1	VN	
175.30	187.00	Sil	1	VN	Ank	1	VN	Ser	1	VN	
187.00	191.00	Qtz	5	VN	Ank	3	VN	Ser	2	VN	
191.00	209.30	Qtz	1	VN	Carb	1	VN				
209.30	210.70	Qtz	3	VN	Ank	3	VN	Ser	2	VN	
210.70	213.60	Sil	1	PEN	Ank	3	VN	Qtz	2	VN	
213.60	216.20	Sil	1	PEN	Qtz	1	VN				
216.20	247.00	Qtz	1	VN							

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
48.00	69.20	3.00	5.00	I1N	UNK	Veinlet <5cm	QZ									Po	2.00	Py	1.00	
69.20	72.20	0.00			UNK	Veinlet <5cm	QZ													
72.20	75.50	1.00		I1N	UNK	Veinlet <5cm	QZ			CB										
75.50	77.10	75.00	30.00	I1N	UNK	Vein >5cm	QZ			AK	5.00	SR	2.00			Po	3.00	Py	2.00	
77.10	80.70	2.00		I1N	UNK	Veinlet <5cm	QZ			CB										
80.70	84.00	5.00		I1N	UNK	Veinlet <5cm	QZ			CB										
84.00	112.00	1.00		I1N	UNK	Veinlet <5cm	QZ	95.00		CB	5.00					Po	0.50			
112.00	152.00	3.00		I1N	UNK	Veinlet <5cm	QZ	50.00		CB	50.00									
152.00	154.00	1.00		I1N	UNK	Veinlet <5cm	QZ	98.00		AK	2.00									
154.00	157.10	10.00		I1N	UNK	Vein >5cm	QZ	90.00		AK	7.00	SR	3.00			Py	1.00			
157.10	164.20	3.00		I1N	UNK	Veinlet <5cm	QZ	90.00		AK	5.00	CL	3.00			Po	3.00			sericite: 2%
164.20	170.10	1.00		I1N	UNK	Veinlet <5cm	QZ	97.00		AK	3.00									
170.10	175.30	1.00		I1N	UNK	Vein >5cm	QZ	95.00		AK	5.00					Po	0.50			qz-ak vein at contact with overlying grey shale
175.30	187.00	2.00		I1N	UNK	Veinlet <5cm	QZ	50.00		CB	50.00									
187.00	191.00	10.00		I1N	UNK	Vein >5cm	QZ	82.00		AK	15.00	SR	3.00			Po	3.00			
191.00	209.30	2.00		I1N	UNK	Veinlet <5cm	QZ	50.00		CB	50.00									
209.30	210.70	8.00		I1N	UNK	Vein >5cm	QZ	88.00		AK	10.00	SR	2.00			Po	2.00			qz-ak-po vein at contact with underlying grey shale
210.70	216.20	5.00		I1N	UNK	Veinlet <5cm	QZ	80.00		AK	20.00	CL	3.00			Po	2.00			
216.20	247.00	2.00		I1N	UNK	Veinlet <5cm	QZ	50.00		CB	50.00									

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
48.00	68.00	FLD	5		strong D1 folding
68.00	69.20	FO	5	40.00	Strong schistosity related to D2, 40 to 45 TCA
69.20	72.20	FO	4		strong S2 at 40TCA, and S0 at low core angle
187.00	191.00	FO	5		strong S2, also presence of quartz-ankerite vein injection, and shifting of S0 on either side of quartz-ankerite vein at 187.4 metres
232.70	232.80	FLD	5		S fold

Oriented Structure Data													
Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
48.90	S0		65.00										
52.90	S0		64.00										
56.40	S0		62.00										
59.30	S0		60.00										
61.50	S0		78.00										
64.20	S0		60.00										
68.70	S2		35.00										
69.20	CNT		68.00										
70.30	S0		70.00										
72.20	CNT		73.00										
75.20	AxialPlane		33.00										
77.40	AxialPlane		50.00										
78.90			66.00	20.00	244.35	-69.08	-44.20	345.86	0.00	75.86	115.00	FAXIS	
78.90	AxialPlane		66.00	20.00	244.35	-69.08	-44.20	345.86	0.00	75.86			
81.00	VN		48.00										
85.30	S0		68.00										
87.70	S0		42.00	26.00	246.30	-68.73	-67.59	356.93	0.00	86.93			
88.00			62.00	19.00	246.30	-68.73	-48.56	348.06	0.00	78.06	100.00	FAXIS	
88.00	AxialPlane		62.00	19.00	246.30	-68.73	-48.56	348.06	0.00	78.06			
94.00	S0		50.00										
98.10	S0		68.00										
103.00	S0		61.00										
108.10	S0		62.00										
109.50			53.00	10.00	246.43	-68.13	-58.64	343.46	0.00	73.46	73.00	FAXIS	
109.50	AxialPlane		53.00	10.00	246.43	-68.13	-58.64	343.46	0.00	73.46			
111.10	S0		67.00										
114.10	S0		60.00										
117.50	S2		50.00	1.00	246.25	-68.50	-61.50	336.98	0.00	66.98			
117.90			47.00	8.00	246.83	-68.47	-64.38	342.88	0.00	72.88	84.00	FAXIS	
117.90	AxialPlane		47.00	8.00	246.83	-68.47	-64.38	342.88	0.00	72.88			
119.30	S0		42.00	16.00	248.50	-68.40	-68.95	351.18	0.00	81.18			
120.00	S0		59.00	0.00	248.75	-68.40	-52.60	338.75	0.00	68.75			
120.20	S0		42.00	10.00	249.00	-68.40	-69.35	346.93	0.00	76.93			
122.60	S2		66.00										

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
125.40	VN		76.00										
126.90	S0		70.00										
130.90	S0		56.00										
130.90	S0		56.00										
132.80	S2		46.00	19.00	254.07	-68.87	-64.27	358.61	0.00	88.61			
135.80	S2		50.00	359.00	250.63	-68.53	-61.46	339.90	0.00	69.90			
136.30	S0		60.00	35.00	249.50	-68.40	-49.12	1.79	0.00	91.79			
144.80			45.00	351.00	248.55	-68.45	-66.35	331.61	0.00	61.61	85.00	FAXIS	
144.80	AxialPlane		45.00	351.00	248.55	-68.45	-66.35	331.61	0.00	61.61			
145.10	VN		40.00	340.00	248.47	-68.43	-70.54	322.33	0.00	52.33			
146.00	S2		47.00	8.00	248.38	-68.42	-64.43	344.42	0.00	74.42			
148.00			52.00	304.00	250.23	-67.93	-53.06	300.55	0.00	30.55	101.00	FAXIS	
148.00	AxialPlane		52.00	304.00	250.23	-67.93	-53.06	300.55	0.00	30.55			
148.20	S0		74.00	324.00	250.72	-67.82	-36.30	324.83	0.00	54.83			
148.50	S2		43.00	265.00	250.72	-67.82	-49.04	265.96	0.00	355.96			
151.00	VN		84.00	290.00	248.45	-68.28	-24.40	324.69	0.00	54.69			
152.00	CNT		60.00	62.00	248.03	-68.37	-44.07	17.43	0.00	107.43			
153.20	S0		72.00	338.00	248.23	-68.32	-38.93	327.62	0.00	57.62			
154.00	S0		72.00	342.00	248.27	-68.30	-39.20	329.58	0.00	59.58			
156.90	S0		85.00	356.00	317.90	-69.60	-25.39	47.09	0.00	137.09			
158.30	S0		76.00	274.00	249.68	-67.97	-26.73	307.24	0.00	37.24			
160.30	S0		78.00	312.00	248.80	-68.03	-31.23	321.46	0.00	51.46			
163.90	VN		74.00										
164.30	CNT		77.00										
165.60	S2		56.00	15.00	248.73	-67.92	-55.59	348.84	0.00	78.84			
165.60	S0		84.00	319.00	248.73	-67.92	-26.89	330.01	0.00	60.01			
170.10	CNT		60.00	142.00	249.00	-67.50	-18.03	75.05	0.00	165.05			
170.90	S0		70.00	204.00	249.10	-67.45	-9.01	276.40	0.00	6.40			
171.10	S0		76.00	226.00	249.28	-67.38	-16.20	300.69	0.00	30.69			
173.30	AxialPlane		80.00										
174.60	S0		72.00	6.00	249.65	-67.25	-40.69	342.49	0.00	72.49			
175.30	CNT		80.00										
178.20	S2		52.00	1.00	249.77	-67.12	-60.88	340.47	0.00	70.47			
178.70	S0		80.00	335.00	249.92	-67.08	-32.24	332.01	0.00	62.01			
183.40	S0		80.00	232.00	248.17	-66.92	-18.58	312.73	0.00	42.73			off set de 55 degré

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
190.90	VN		42.00										
193.20	S2		38.00	36.00	249.88	-66.90	-71.57	9.11	0.00	99.11			
193.70	S0		73.00	26.00	250.13	-66.72	-39.24	351.82	0.00	81.82			
196.10	VN		42.00	38.00	251.10	-65.92	-68.17	10.63	0.00	100.63			
196.40	S0		64.00	15.00	251.10	-65.92	-49.63	349.66	0.00	79.66			
200.20			76.00	128.00	249.70	-66.43	-18.39	16.87	0.00	106.87	34.00	FAXIS	
200.20	AxialPlane		76.00	128.00	249.70	-66.43	-18.39	16.87	0.00	106.87			
200.30	S0		76.00	120.00	249.70	-66.43	-20.33	16.80	0.00	106.80			
202.70	VN		68.00	360.00	281.37	-56.73	-55.27	11.37	0.00	101.37			fold in iron formation
204.50	S0		73.00	1.00	281.77	-56.67	-50.33	12.15	0.00	102.15			
206.90	S0		73.00	14.00	250.83	-66.20	-40.49	347.09	0.00	77.09			
209.30	VN		85.00	180.00	251.10	-66.20	-18.80	341.10	0.00	71.10			
211.10	S0		67.00	14.00	251.10	-66.20	-46.43	348.60	0.00	78.60			
212.40	S0		75.00										
216.20	CNT		80.00										
218.10	S0		90.00	16.00	251.10	-66.20	-23.80	341.10	0.00	71.10			
221.40	S0		85.00										
224.20			83.00	14.00	251.10	-66.20	-30.64	344.42	0.00	74.42	87.00	FAXIS	
224.20	AxialPlane		83.00	14.00	251.10	-66.20	-30.64	344.42	0.00	74.42			
224.30	S0		87.00	30.00	251.10	-66.20	-26.44	344.47	0.00	74.47			
225.80	S2		62.00	358.00	251.10	-66.20	-51.79	339.91	0.00	69.91			
228.80	S0		80.00	26.00	251.10	-66.20	-33.06	349.12	0.00	79.12			
232.10	VN		67.00	32.00	251.10	-66.20	-44.89	358.16	0.00	88.16			
232.80			77.00	31.00	251.10	-66.20	-35.54	352.60	0.00	82.60	71.00	FAXIS	
232.80	AxialPlane		77.00	31.00	251.10	-66.20	-35.54	352.60	0.00	82.60			
234.70	S0		87.00	1.00	251.10	-66.20	-26.80	341.22	0.00	71.22			
239.40			22.00	53.00	251.10	-66.20	-83.25	29.32	0.00	119.32	56.00	FAXIS	
239.40	AxialPlane		22.00	53.00	251.10	-66.20	-83.25	29.32	0.00	119.32			
240.90	S0		85.00	9.00	251.10	-66.20	-28.75	342.72	0.00	72.72			
242.50	S2		45.00	1.00	251.10	-66.20	-68.80	341.86	0.00	71.86			
243.50	VN		45.00	359.00	251.10	-66.20	-68.80	340.34	0.00	70.34			
244.10	S0		84.00	4.00	251.10	-66.20	-29.79	341.94	0.00	71.94			

## Sample Data - ASSAY

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
457390	47.00	49.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.028	1.900	54.60	636.00	15.00	2,000.0	1.055	1 210.00	126.00	258.00	4 710.00
457391	49.00	51.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.029	2.130	35.50	740.00	14.90	2,170.0	0.976	1 180.00	129.00	276.00	4 180.00
457392	51.00	53.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.036	2.370	40.10	714.00	15.40	1,670.0	1.145	1 400.00	152.50	297.00	5 210.00
457393	53.00	55.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.034	2.000	29.60	529.00	11.90	2,320.0	0.852	1 270.00	114.50	181.00	3 970.00
457394	55.00	57.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.012	1.510	51.70	444.00	14.20	2,810.0	0.213	666.00	67.80	124.00	900.00
457395	57.00	59.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.027	2.270	25.60	518.00	15.45	2,330.0	0.480	1 010.00	98.90	184.50	2 610.00
457397	59.00	61.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.020	2.070	20.60	648.00	17.95	3,270.0	0.379	711.00	69.10	188.00	2 170.00
457398	61.00	63.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.014	1.650	25.20	450.00	16.60	1,680.0	0.241	520.00	46.30	201.00	1 510.00
457399	63.00	65.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.018	2.080	38.40	509.00	18.20	3,190.0	0.274	929.00	112.00	226.00	1 510.00
457400	65.00	67.00	2.00	2	VO18198527 - Finalized	09/09/2018	0.034	2.260	105.00	298.00	16.05	1,470.0	0.756	898.00	92.90	215.00	2 250.00
557401	67.00	68.00	1.00	2	VO18198520 - Finalized	09/09/2018	0.007	1.230	76.30	246.00	15.00	601.0	0.336	423.00	13.50	154.00	1 520.00
557402	68.00	69.20	1.20	2	VO18198520 - Finalized	09/09/2018	0.004	0.940	30.40	218.00	11.20	300.0	0.268	524.00	8.00	121.00	1 420.00
557403	69.20	71.00	1.80	2	VO18198520 - Finalized	09/09/2018	0.001	0.400	25.60	122.00	7.42	2,230.0	0.067	232.00	2.56	63.60	372.00
557404	71.00	72.20	1.20	2	VO18198520 - Finalized	09/09/2018	0.001	0.780	33.40	152.50	6.72	787.0	0.115	194.00	5.49	107.00	471.00
557405	72.20	74.00	1.80	2	VO18198520 - Finalized	09/09/2018	0.006	0.830	19.50	208.00	10.15	1,540.0	0.063	178.00	15.95	116.00	404.00
557406	74.00	76.00	2.00	2	VO18198520 - Finalized	09/09/2018	0.010	1.220	33.10	230.00	14.55	3,260.0	0.125	400.00	30.10	136.50	586.00
557407	76.00	78.00	2.00	2	VO18198520 - Finalized	09/09/2018	0.003	0.960	30.10	172.00	11.45	3,750.0	0.098	350.00	22.80	97.50	437.00
557408	78.00	80.00	2.00	2	VO18198520 - Finalized	09/09/2018	0.006	0.860	40.10	140.50	10.50	454.0	0.104	289.00	18.50	89.60	532.00
557410	80.00	82.00	2.00	2	VO18198520 - Finalized	09/09/2018	0.006	1.190	59.00	190.50	16.65	1,440.0	0.062	220.00	12.05	124.50	349.00
557411	82.00	84.00	2.00	2	VO18198520 - Finalized	09/09/2018	0.004	2.380	31.60	335.00	20.70	1,800.0	0.055	390.00	34.10	178.00	211.00
557412	84.00	86.00	2.00	2	VO18198520 - Finalized	09/09/2018	0.012	1.430	19.50	144.50	10.25	588.0	0.161	433.00	29.10	94.90	871.00
557413	86.00	88.00	2.00	2	VO18198520 - Finalized	09/09/2018	0.007	0.790	12.70	123.50	9.51	1,180.0	0.065	240.00	10.80	68.20	480.00
557414	88.00	90.00	2.00	2	VO18198520 - Finalized	09/09/2018	0.015	1.910	11.90	210.00	14.90	1,090.0	0.240	540.00	42.20	127.50	1 370.00
557415	90.00	92.00	2.00	2	VO18198520 - Finalized	09/09/2018	0.001	0.890	13.60	144.00	10.35	427.0	0.074	207.00	14.25	92.80	559.00
557417	92.00	94.00	2.00	2	VO18198520 - Finalized	09/09/2018	0.019	1.460	83.30	124.50	13.50	432.0	0.327	237.00	19.80	143.00	899.00
557418	94.00	95.70	1.70	2	VO18198520 - Finalized	09/09/2018	0.018	1.050	64.90	148.50	12.15	579.0	0.273	198.00	15.30	144.50	860.00
557419	97.60	99.50	1.90	2	VO18198520 - Finalized	09/09/2018	0.032	1.740	131.00	127.50	15.90	276.0	0.513	301.00	29.60	156.50	1 290.00
557420	99.50	101.50	2.00	2	VO18198520 - Finalized	09/09/2018	0.028	1.860	96.00	170.00	16.65	413.0	0.450	359.00	37.00	208.00	1 410.00
557421	102.40	104.00	1.60	2	VO18203464 - Finalized	11/09/2018	0.026	1.450	111.50	83.40	12.80	487.0	0.501	262.00	25.60	150.50	1 100.00
557422	104.00	106.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.054	2.540	177.50	85.10	17.20	134.0	0.892	392.00	46.00	169.50	2 040.00
557423	106.00	108.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.028	1.460	114.50	96.90	13.55	836.0	0.421	217.00	18.95	173.50	772.00
557424	108.00	110.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.057	1.940	172.00	65.20	15.35	231.0	0.823	341.00	32.90	172.00	1 360.00
557425	110.00	112.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.024	1.280	111.00	83.20	11.95	598.0	0.475	233.00	20.90	151.00	708.00
557426	112.00	114.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.041	1.860	100.50	148.50	13.70	258.0	0.644	920.00	111.00	177.00	2 280.00
557427	114.00	116.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.047	1.890	30.90	191.50	11.65	752.0	0.336	941.00	109.00	179.00	2 000.00
557428	116.00	118.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.019	1.080	60.60	126.50	10.45	247.0	0.298	183.00	13.95	120.00	481.00
557430	118.00	120.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.013	0.890	66.50	129.00	11.55	260.0	0.219	169.00	12.05	127.50	538.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557431	120.00	122.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.033	1.110	78.60	102.00	11.70	338.0	0.372	197.00	19.60	125.00	673.00
557432	122.00	124.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.041	1.360	104.00	73.70	12.85	372.0	0.395	252.00	22.20	146.00	991.00
557433	124.00	126.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.044	1.260	119.00	100.50	16.45	509.0	0.487	263.00	31.20	146.00	1 040.00
557434	126.00	128.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.050	1.150	100.50	128.00	13.55	257.0	0.403	248.00	24.10	140.00	1 090.00
557435	128.00	130.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.043	1.020	92.10	118.00	12.15	120.0	0.350	245.00	26.60	117.50	774.00
557437	130.00	132.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.024	0.900	84.20	123.50	11.50	229.0	0.306	212.00	19.95	125.50	744.00
557438	132.00	134.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.020	0.990	77.00	160.50	12.00	129.0	0.321	189.00	15.90	146.00	701.00
557439	134.00	136.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.016	0.810	49.60	148.50	9.90	211.0	0.215	164.00	13.45	118.00	388.00
557440	136.00	138.00	2.00	2	VO18203464 - Finalized	11/09/2018	0.013	0.800	53.20	165.50	10.95	247.0	0.250	169.00	14.00	140.00	524.00
557441	138.00	140.00	2.00	2	VO18203590 - Finalized	11/09/2018	0.023	1.190	89.50	125.50	12.05	323.0	0.424	200.00	17.70	132.50	989.00
557442	140.00	142.00	2.00	2	VO18203590 - Finalized	11/09/2018	0.019	0.750	60.50	126.50	10.50	94.0	0.271	185.00	15.05	130.00	639.00
557443	142.00	144.00	2.00	2	VO18203590 - Finalized	11/09/2018	0.019	0.870	72.50	116.00	11.85	193.0	0.333	191.00	15.75	131.50	1 040.00
557444	144.00	146.00	2.00	2	VO18203590 - Finalized	11/09/2018	0.013	0.810	36.60	161.50	10.80	246.0	0.240	157.00	13.95	134.50	690.00
557445	146.00	148.00	2.00	2	VO18203590 - Finalized	11/09/2018	0.015	1.280	63.10	113.50	12.40	266.0	0.304	224.00	24.40	138.50	568.00
557446	148.00	150.00	2.00	2	VO18203590 - Finalized	11/09/2018	0.024	2.120	27.40	193.50	14.00	137.0	0.359	269.00	27.30	164.00	1 650.00
557447	150.00	152.00	2.00	2	VO18203590 - Finalized	11/09/2018	0.004	1.230	15.60	146.50	11.55	1,060.0	0.115	249.00	28.90	106.00	644.00
557448	152.00	153.00	1.00	2	VO18203590 - Finalized	11/09/2018	0.001	0.090	0.40	7.90	14.75	3,140.0	0.005	5.00	2.08	5.50	31.00
557450	153.00	154.00	1.00	2	VO18203590 - Finalized	11/09/2018	0.001	0.060	0.70	5.10	14.95	3,700.0	0.012	11.00	1.70	12.00	39.00
557451	154.00	155.00	1.00	2	VO18203590 - Finalized	11/09/2018	0.001	0.030	0.60	4.00	11.10	3,360.0	0.003	11.00	2.52	3.30	29.00
557452	155.00	156.00	1.00	2	VO18203590 - Finalized	11/09/2018	0.001	0.020	17.50	1.80	8.94	1,940.0	0.003	9.00	3.58	4.40	48.00
557453	156.00	157.00	1.00	2	VO18203590 - Finalized	11/09/2018	0.001	0.030	2.90	2.80	17.50	5,600.0	0.005	22.00	1.79	10.70	41.00
557454	157.00	158.00	1.00	2	VO18203590 - Finalized	11/09/2018	0.001	0.020	1.20	2.60	16.70	9,850.0	0.003	32.00	2.14	6.80	23.00
557455	158.00	159.00	1.00	2	VO18203590 - Finalized	11/09/2018	0.001	0.010	6.20	4.00	18.90	9,660.0	0.003	32.00	1.60	6.50	9.00
557457	159.00	160.00	1.00	2	VO18203590 - Finalized	11/09/2018	0.001	0.020	16.50	8.10	19.55	11,750.0	0.003	59.00	1.42	12.00	13.00
557458	160.00	161.00	1.00	2	VO18203590 - Finalized	11/09/2018	0.001	0.020	5.40	8.10	20.30	13,200.0	0.003	54.00	1.01	10.90	13.00
557459	161.00	162.00	1.00	2	VO18203590 - Finalized	11/09/2018	0.001	0.030	5.90	12.50	19.15	17,550.0	0.003	86.00	1.66	17.00	17.00
557460	162.00	163.00	1.00	2	VO18203590 - Finalized	11/09/2018	0.001	0.010	2.20	8.00	20.20	16,500.0	0.003	65.00	1.08	11.20	16.00
557461	163.00	164.20	1.20	2	VO18203680 - Finalized	11/09/2018	0.009	0.390	1.70	65.10	20.80	14,750.0	0.003	217.00	9.89	68.00	128.00
557462	164.20	166.00	1.80	2	VO18203680 - Finalized	11/09/2018	0.001	0.170	1.70	28.40	9.54	5,270.0	0.007	148.00	1.15	41.60	142.00
557463	166.00	168.00	2.00	2	VO18203680 - Finalized	11/09/2018	0.002	0.470	1.20	39.00	8.24	7,540.0	0.003	160.00	1.36	47.20	140.00
557464	168.00	170.10	2.10	2	VO18203680 - Finalized	11/09/2018	0.001	0.170	0.50	32.40	9.48	2,000.0	0.003	171.00	1.80	42.70	147.00
555455	170.10	171.00	0.90	2	VO18203462 - Finalized	10/09/2018	0.001	0.060	1.40	7.90	15.65	20,800.0	0.003	93.00	3.98	14.00	54.00
555456	171.00	172.00	1.00	2	VO18203462 - Finalized	10/09/2018	0.001	0.030	0.60	5.70	18.75	18,800.0	0.006	63.00	1.48	12.50	46.00
555457	172.00	173.00	1.00	2	VO18203462 - Finalized	10/09/2018	0.001	0.040	0.40	9.60	17.95	15,000.0	0.003	80.00	1.17	14.50	59.00
555458	173.00	174.00	1.00	2	VO18203462 - Finalized	10/09/2018	0.001	0.030	0.70	5.70	16.50	13,850.0	0.003	58.00	1.16	8.80	48.00
555460	174.00	175.30	1.30	2	VO18203462 - Finalized	10/09/2018	0.001	0.040	1.70	9.30	19.05	18,050.0	0.003	75.00	1.53	12.80	57.00
557465	175.30	177.00	1.70	2	VO18203680 - Finalized	11/09/2018	0.004	0.250	0.40	47.90	9.53	6,130.0	0.003	186.00	3.18	47.70	128.00



Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557466	177.00	179.00	2.00	2	VO18203680 - Finalized	11/09/2018	0.001	0.130	1.00	37.30	7.67	9,980.0	0.003	144.00	0.98	44.80	101.00
557467	179.00	181.00	2.00	2	VO18203680 - Finalized	11/09/2018	0.001	0.270	3.90	25.10	10.80	11,850.0	0.003	93.00	0.84	35.70	145.00
557468	181.00	183.00	2.00	2	VO18203680 - Finalized	11/09/2018	0.001	0.100	0.30	19.50	10.95	12,050.0	0.003	92.00	1.28	31.50	90.00
557470	183.00	185.00	2.00	2	VO18203680 - Finalized	11/09/2018	0.001	0.100	0.50	17.50	11.20	12,200.0	0.003	95.00	1.19	29.20	86.00
557471	185.00	187.00	2.00	2	VO18203680 - Finalized	11/09/2018	0.001	0.080	1.70	18.10	10.80	11,350.0	0.003	96.00	1.18	33.50	94.00
557472	187.00	189.00	2.00	2	VO18203680 - Finalized	11/09/2018	0.001	0.110	0.80	41.60	8.77	4,980.0	0.003	146.00	1.00	59.00	123.00
557473	189.00	191.00	2.00	2	VO18203680 - Finalized	11/09/2018	0.001	0.960	0.60	48.30	9.26	3,060.0	0.014	160.00	5.00	43.90	216.00
557474	191.00	193.00	2.00	2	VO18203680 - Finalized	11/09/2018	0.001	0.100	0.50	23.30	9.37	7,960.0	0.003	103.00	0.75	37.10	95.00
557475	193.00	195.00	2.00	2	VO18203680 - Finalized	11/09/2018	0.001	0.090	1.50	32.30	7.13	4,290.0	0.003	149.00	0.87	43.20	109.00
557477	195.00	197.00	2.00	2	VO18203680 - Finalized	11/09/2018	0.001	0.140	4.10	34.20	7.82	5,150.0	0.003	131.00	0.73	40.10	152.00
557478	197.00	199.00	2.00	2	VO18203680 - Finalized	11/09/2018	0.001	0.100	0.60	19.20	12.20	14,000.0	0.003	95.00	0.81	30.80	104.00
557479	199.00	201.00	2.00	2	VO18203680 - Finalized	11/09/2018	0.002	0.130	0.20	23.50	7.49	4,830.0	0.003	123.00	1.14	37.30	93.00
557480	201.00	203.00	2.00	2	VO18203680 - Finalized	11/09/2018	0.001	0.170	0.90	34.40	6.09	1,700.0	0.003	141.00	1.63	45.30	112.00
557481	203.00	205.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.080	0.90	18.40	10.45	12,050.0	0.003	92.00	0.89	31.70	95.00
557482	205.00	207.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.100	3.00	22.60	8.54	7,170.0	0.003	98.00	0.46	40.90	115.00
557483	207.00	209.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.190	3.10	18.70	10.30	12,750.0	0.003	87.00	0.49	33.60	77.00
557484	209.00	210.70	1.70	2	VO18203682 - Finalized	08/09/2018	0.001	0.130	0.50	30.10	10.25	5,430.0	0.003	134.00	0.72	40.70	97.00
555461	210.70	212.00	1.30	2	VO18211359 - Finalized	13/09/2018	0.001	0.050	7.60	12.30	20.30	15,150.0	0.008	58.00	1.11	14.70	34.00
555462	212.00	213.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.040	0.20	13.40	21.70	15,100.0	0.003	64.00	1.08	12.80	33.00
555463	213.00	214.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.050	0.20	16.00	21.60	23,000.0	0.003	97.00	1.17	16.70	42.00
555464	214.00	215.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.070	0.30	17.80	23.50	33,800.0	0.003	177.00	1.29	32.10	60.00
555465	215.00	216.20	1.20	2	VO18211359 - Finalized	13/09/2018	0.001	0.080	0.30	17.30	18.85	27,500.0	0.005	142.00	1.02	23.20	51.00
557485	216.20	218.00	1.80	2	VO18203682 - Finalized	08/09/2018	0.002	0.200	0.30	46.20	9.00	522.0	0.003	178.00	1.09	48.80	220.00
557486	218.00	220.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.130	0.10	48.80	7.61	1,500.0	0.003	135.00	0.66	48.40	185.00
557487	220.00	222.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.090	3.30	29.20	7.11	5,010.0	0.003	113.00	0.39	43.50	162.00
557488	222.00	224.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.040	1.40	27.30	7.83	4,900.0	0.003	100.00	0.71	44.50	121.00
557490	224.00	226.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.120	0.30	28.80	10.60	14,100.0	0.003	106.00	0.80	38.80	79.00
557491	226.00	228.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.110	1.30	22.30	8.75	9,500.0	0.003	108.00	0.74	36.80	92.00
557492	228.00	230.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.020	0.30	22.10	11.25	11,400.0	0.003	83.00	0.87	32.90	118.00
557493	230.00	232.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.030	0.40	28.80	11.05	11,300.0	0.003	89.00	0.83	32.00	105.00
557494	232.00	234.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.100	2.70	36.10	6.92	3,580.0	0.003	127.00	0.77	40.70	127.00
557495	234.00	236.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.170	2.10	34.20	10.00	9,810.0	0.003	100.00	1.47	35.70	100.00
557497	236.00	238.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.050	0.40	19.10	11.90	14,100.0	0.003	87.00	0.80	30.00	73.00
557498	238.00	240.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.040	0.10	18.20	11.35	13,550.0	0.003	94.00	1.55	33.10	75.00
557499	240.00	242.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.060	0.20	20.90	10.30	11,750.0	0.003	97.00	0.91	33.10	70.00
557500	242.00	244.00	2.00	2	VO18203682 - Finalized	08/09/2018	0.001	0.170	0.50	23.60	10.35	12,700.0	0.003	106.00	1.16	36.60	70.00
557501	244.00	245.00	1.00	2	VO18214845 - Finalized	16/09/2018	0.004	0.070	0.50	16.00	8.23	8,790.0	0.003	101.00	1.06	29.90	70.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557502	245.00	247.00	2.00	2	VO18214845 - Finalized	16/09/2018	0.002	0.090	0.30	18.30	8.54	9,800.0	0.006	98.00	1.18	30.00	72.00



## Detailed Log Report

### Hole Number OSK-KAN-18-020

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>		<b>Collar Dip:</b>	60.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>		<b>Length:</b>	380.00
<b>Start Date:</b>	August 11, 2018	<b>East:</b>		<b>Hole Type:</b>	DDH
<b>Completed Date:</b>	August 18, 2018	<b>Elev:</b>		<b>Casing Length:</b>	18.00
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	N
<b>Logger 1:</b>	Cynthia Lee			<b>Multi Shot:</b>	Y
<b>Target:</b>	Interpreted antiform in PPR-PF corridor			<b>Claims Title:</b>	2391195
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing
				<b>Collar Az:</b>	250.00
				<b>Hole Size:</b>	NQ
				<b>Surveyed:</b>	N
				<b>Pulled:</b>	N
				<b>Making Water:</b>	Y
				<b>Section:</b>	N.A.
				<b>Township:</b>	Kan
				<b>Log Complete:</b>	N

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	19.00	OVB, Overburden					
<b>Comments:</b>							

From	To	Lithology	Sample	From	To	Length	Comments
19.00	70.80	I3A, Gabbro	557503	19.00	20.50	1.50	I3A Chl-Cal; CC-2 Qtz-1 CC-2; 0.1% Py SUB PER; 2% I1N CC QZ
			557504	20.50	22.10	1.60	I3A Chl-Cal; CC-2 Qtz-1 CC-2; 0.1% Py SUB PER; 2% I1N CC QZ
<b>Comments:</b>			557505	22.10	23.80	1.70	; CC-2 Qtz-1 CC-2; 3% Po DI PER; 2% I1N CC QZ
			557506	23.80	25.00	1.20	I3A Chl-Cal; CC-2 Qtz-1 CC-2; 0.5% Py SUB PER; 2% I1N CC QZ
			557507	25.00	27.00	2.00	I3A Chl-Cal; CC-2 Qtz-1 CC-2; 0.5% Py SUB PER; 2% I1N CC QZ
			557508	27.00	29.00	2.00	I3A Chl-Cal; CC-2 Qtz-1 CC-2; 0.5% Py SUB PER; 2% I1N CC QZ
			557510	29.00	31.00	2.00	I3A Chl-Cal; CC-2 Qtz-1 CC-2; 0.5% Py SUB PER; 2% I1N CC QZ
			557511	31.00	33.00	2.00	I3A Chl-Cal; CC-2 Qtz-1 CC-2; 0.5% Py SUB PER; 2% I1N CC QZ
			557512	33.00	35.00	2.00	I3A Chl-Cal; CC-2 Qtz-1 CC-2; 0.5% Py SUB PER; 2% I1N CC QZ
			557513	35.00	37.00	2.00	I3A Chl-Cal; CC-2 Qtz-1 CC-2; 2% I1N CC QZ
			557514	37.00	39.00	2.00	I3A Chl-Cal; CC-2 Qtz-1 CC-2; 0.5% Py SUB PER 0.5% Po AL VN; 2% I1N CC QZ
			557515	39.00	41.00	2.00	I3A Chl-Cal; CC-2 Qtz-1 CC-2; 0.5% Py SUB PER 0.5% Po AL VN
			557517	41.00	43.00	2.00	I3A Chl-Cal; CC-2 Qtz-1 CC-2; 0.5% Py SUB PER 0.5% Po AL VN
			557518	43.00	45.00	2.00	I3A Chl-Cal; CC-2 Qtz-1 CC-2; 0.5% Py SUB PER 0.5% Po AL VN; 2% I1N QZ CC
			557519	45.00	47.00	2.00	I3A; CC-3 Qtz-1 Carb-1 CC-2 Chl-1; 0.5% Py SUB PER 0.5% Po AL VN; 2% I1N QZ CC
			557520	47.00	49.00	2.00	I3A; CC-3 Qtz-1 Carb-1 CC-2 Chl-1; 0.5% Py SUB PER 0.5% Po AL VN; 2% I1N QZ CC
			557521	49.00	51.00	2.00	I3A; CC-3 Qtz-1 Carb-1 CC-2 Chl-1; 0.5% Py SUB PER 0.5% Po AL VN; 2% I1N QZ CC
			557522	51.00	53.00	2.00	I3A; CC-3 Qtz-1 Carb-1 CC-2 Chl-1; 0.5% Py SUB PER 0.5% Po AL VN; 2% I1N QZ CC
			557523	53.00	55.00	2.00	I3A; CC-3 Qtz-1 Carb-1 CC-2 Chl-1; 0.5% Py SUB PER 0.5% Po AL VN; 2% I1N QZ CC
			557524	55.00	57.00	2.00	I3A; CC-3 Qtz-1 Carb-1 CC-2 Chl-1; 0.5% Py SUB PER 0.5% Po AL VN; 2% I1N QZ CC
			557525	57.00	59.00	2.00	I3A; CC-3 Qtz-1 Carb-1 CC-2 Chl-1
			557526	59.00	61.00	2.00	I3A; CC-3 Qtz-1 Carb-1 CC-2 Chl-1; 1% Po AL VN 0.5% Py SUB PER; 5% I1N QZ CC
			557527	61.00	63.00	2.00	I3A; CC-3 Qtz-1 Carb-1 CC-2 Chl-1
			557528	63.00	65.00	2.00	I3A; CC-3 Qtz-1 Carb-1 CC-2 Chl-1; 0.5% Py SUB PER; 0.5% I1N QZ CC
			557530	65.00	67.00	2.00	I3A; CC-3 Qtz-1 Carb-1 CC-2 Chl-1; 0.5% Py SUB PER; 0.5% I1N QZ CC
			557531	67.00	69.00	2.00	I3A; 0.5% Py SUB PER; 0.5% I1N QZ CC
			557532	69.00	70.80	1.80	I3A; Carb-4 CC-2; 0.5% Py SUB PER 3% Po DI PER; 0.5% I1N QZ CC
70.80	79.20	S6, Mudrock	557533	70.80	72.00	1.20	S6 GP; Carb-1 Qtz-1; 6% Po LA BD 2% Po IG BD 5% Py SUB BD 1% Py CC VN; 1% I1N QZ CC
<b>Comments:</b>			557534	72.00	74.00	2.00	S6 GP; Carb-1 Qtz-1; 6% Po LA BD 2% Po IG BD 5% Py SUB BD 1% Py CC VN; 1% I1N QZ CC
			557535	74.00	76.00	2.00	S6 GP; Carb-1 Qtz-1; 6% Po LA BD 2% Po IG BD 5% Py SUB BD 1% Py CC VN; 1% I1N QZ CC
			557537	76.00	78.00	2.00	S6 GP; Carb-1 Qtz-1; 6% Po LA BD 2% Po IG BD 5% Py SUB BD 1% Py CC VN; 1% I1N QZ CC
			557538	78.00	79.20	1.20	S6 GP; Carb-1 Qtz-1; 6% Po LA BD 2% Po IG BD 5% Py SUB BD 1% Py CC VN; 1% I1N QZ CC

From	To	Lithology	Sample	From	To	Length	Comments
79.20	115.40	I3A, Gabbro	557539	79.20	81.00	1.80	I3A; CC-1 CC-1 Qtz-1; 2% Py SUB PER; 0.1% I1N QZ
			557540	81.00	83.00	2.00	I3A; CC-1 CC-1 Qtz-1; 2% Py SUB PER; 0.1% I1N QZ
<b>Comments:</b>			557541	83.00	85.00	2.00	I3A; CC-1 CC-1 Qtz-1; 2% Py SUB PER; 0.1% I1N QZ
			557542	85.00	87.00	2.00	I3A; CC-1 CC-1 Qtz-1; 2% Py SUB PER; 0.1% I1N QZ
			557543	87.00	89.00	2.00	I3A; CC-1 CC-1 Qtz-1; 2% Py SUB PER; 0.1% I1N QZ
			557544	89.00	91.00	2.00	I3A; CC-1 CC-1 Qtz-1; 2% Py SUB PER; 0.1% I1N QZ
			557545	91.00	93.00	2.00	I3A; CC-1 CC-1 Qtz-1; 2% Py SUB PER; 0.1% I1N QZ
			557546	93.00	95.00	2.00	I3A; CC-1 CC-1 Qtz-1; 2% Py SUB PER; 0.1% I1N QZ
			557547	95.00	97.00	2.00	I3A; CC-1 CC-1 Qtz-1; 2% Py SUB PER
			557548	97.00	99.00	2.00	I3A; CC-1 CC-1 Qtz-1; 2% Py SUB PER
			557550	99.00	101.00	2.00	I3A; CC-1 CC-1 Qtz-1; 2% Py SUB PER; 1% I1N QZ CC
			557551	101.00	103.00	2.00	I3A; CC-1 CC-1 Qtz-1; 2% Py SUB PER; 1% I1N QZ CC
			557552	103.00	105.00	2.00	I3A; CC-1 CC-1 Qtz-1; 2% Py SUB PER; 1% I1N QZ CC
			557553	105.00	107.00	2.00	I3A; CC-1 CC-1 Qtz-1; 2% Py SUB PER; 1% I1N QZ CC
			557554	107.00	108.60	1.60	; 15% Po IG BD 3% Py SUB BD; 1% I1N QZ CC
			557555	108.60	110.10	1.50	S6 GP; CC-1 Qtz-1; 8% Po IG BD 5% Py SUB BD; 1% I1N QZ CC
			557557	110.10	112.00	1.90	I3A; CC-1 Ser-1 Sil-1 Chl-1; 3% Po AL PER 2% Py SUB BD 2% Po AL VN; 1% I1N QZ CC
			557558	112.00	114.00	2.00	; 8% Po IG BD 2% Po AL VN; 20% I1N QZ AK
			557559	114.00	115.40	1.40	; 8% Po IG BD 2% Py SUB BD; 2% I1N QZ CC

From	To	Lithology	Sample	From	To	Length	Comments
115.40	224.80	S6, Mudrock	557560	115.40	117.00	1.60	S6 GP; CC-1 Qtz-1; 5% Po LA BD; 2% I1N QZ CC
			557561	117.00	119.00	2.00	S6 GP; CC-1 Qtz-1; 5% Po LA BD; 2% I1N QZ CC
			557562	119.00	121.00	2.00	S6 GP; CC-1 Qtz-1; 5% Po LA BD; 2% I1N QZ CC
			557563	121.00	123.00	2.00	S6 GP; CC-1 Qtz-1; 5% Po LA BD; 2% I1N QZ CC
			557564	123.00	125.00	2.00	
			557565	125.00	127.00	2.00	S6 GP; Qtz-3 Ank-1 Carb-1; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 15% I1N QZ AK
			557566	127.00	129.00	2.00	S6 GP; Qtz-3 Ank-1 Carb-1; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 15% I1N QZ AK
			557567	129.00	131.00	2.00	S6 GP; Qtz-3 Ank-1 Carb-1; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 15% I1N QZ AK
			557568	131.00	133.00	2.00	S6 GP; Qtz-3 Ank-1 Carb-1; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 15% I1N QZ AK
			557570	133.00	135.00	2.00	S6 GP; Qtz-3 Ank-1 Carb-1; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 15% I1N QZ AK
			557571	135.00	137.00	2.00	S6 GP; Qtz-3 Ank-1 Carb-1; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 15% I1N QZ AK
			557572	137.00	139.00	2.00	S6 GP; Qtz-3 Ank-1 Carb-1; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 15% I1N QZ AK
			557573	139.00	141.00	2.00	S6 GP; Qtz-3 Ank-1 Carb-1; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 15% I1N QZ AK
			557574	141.00	143.00	2.00	S6 GP; Qtz-3 Ank-1 Carb-1; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 15% I1N QZ AK
			557575	143.00	145.00	2.00	S6 GP; Qtz-3 Ank-1 Carb-1; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 15% I1N QZ AK
			557577	145.00	147.00	2.00	S6 GP; Qtz-3 Ank-1 Carb-1; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 15% I1N QZ AK
			557578	147.00	149.00	2.00	S6 GP; Qtz-3 Ank-1 Carb-1; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 15% I1N QZ AK
			557579	149.00	151.00	2.00	S6 GP; Qtz-3 Ank-1 Carb-1; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 15% I1N QZ AK
			557580	151.00	153.00	2.00	S6; Qtz-2; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 3% I1N QZ
			557581	153.00	155.00	2.00	S6; Qtz-2; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 3% I1N QZ
			557582	155.00	157.00	2.00	S6; Qtz-2; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 3% I1N QZ
			557583	157.00	159.00	2.00	S6; Qtz-2; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 3% I1N QZ
			557584	159.00	161.00	2.00	S6; Qtz-2; 5% Po LA BD 5% Py SS BD 1% Cp AL VN 1% Sp AL VN 3% Po IG VN 2% Py AL VN; 3% I1N QZ
			557585	161.00	162.55	1.55	S6; Qtz-2; 3% I1N QZ
			557586	162.55	164.10	1.55	; 0.1% I1N QZ
			557587	164.10	166.00	1.90	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN; 5% I1N QZ CC

Comments:

From	To	Lithology	Sample	From	To	Length	Comments
			557588	166.00	168.00	2.00	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN; 5% I1N QZ CC
			557590	168.00	170.00	2.00	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN; 5% I1N QZ CC
			557591	170.00	172.00	2.00	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN; 5% I1N QZ CC
			557592	172.00	174.00	2.00	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN
			557593	174.00	176.00	2.00	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN; 2% I1N QZ CC
			557594	176.00	178.00	2.00	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN; 2% I1N QZ CC
			557595	178.00	180.00	2.00	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN
			557597	180.00	182.00	2.00	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN; 8% I1N QZ CC
			557598	182.00	184.00	2.00	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN; 8% I1N QZ CC
			557599	184.00	186.00	2.00	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN; 8% I1N QZ CC
			557600	186.00	188.00	2.00	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN; 8% I1N QZ CC
			557601	188.00	190.00	2.00	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN; 3% I1N QZ CC
			557602	190.00	192.00	2.00	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN; 3% I1N QZ CC
			557603	192.00	194.00	2.00	S6 GP; Qtz-2 Ank-1; 3% Po IG BD 5% Py SUB BD 1% Cp AL VN 1% Sp AL VN; 3% I1N QZ CC
			557604	194.00	196.00	2.00	S6 GP; Qtz-2 Ank-1; 1% Po DI PER 1% Po IG BD 3% Py SUB BD; 3% I1N QZ CC
			557605	196.00	198.00	2.00	S6 GP; Qtz-1; 1% Po DI PER 1% Po IG BD 3% Py SUB BD; 3% I1N QZ CC
			557606	198.00	200.00	2.00	S6 GP; Qtz-1; 1% Po DI PER 1% Po IG BD 3% Py SUB BD
			557607	200.00	202.00	2.00	S6 GP; Qtz-1; 1% Po DI PER 1% Po IG BD 3% Py SUB BD; 1% I1N QZ AK
			557608	202.00	204.00	2.00	S6 GP; Qtz-1; 1% Po DI PER 1% Po IG BD 3% Py SUB BD; 1% I1N QZ AK
			557610	204.00	206.00	2.00	S6 GP; Qtz-1; 1% Po DI PER 1% Po IG BD 3% Py SUB BD; 1% I1N QZ AK
			557611	206.00	208.00	2.00	S6 GP; Qtz-1; 1% Po DI PER 1% Po IG BD 3% Py SUB BD; 1% I1N QZ AK
			557612	208.00	210.00	2.00	S6 GP; Qtz-1; 1% Po DI PER 1% Po IG BD 3% Py SUB BD; 1% I1N QZ AK
			557613	210.00	212.00	2.00	S6 GP; Qtz-1; 1% Po DI PER 1% Po IG BD 3% Py SUB BD; 1% I1N QZ AK
			557614	212.00	214.00	2.00	S6 GP; Qtz-1; 1% Po DI PER 1% Po IG BD 3% Py SUB BD; 1% I1N QZ AK
			557615	214.00	216.00	2.00	S6 GP; Qtz-1; 1% Po DI PER 1% Po IG BD 3% Py SUB BD; 1% I1N QZ AK
			557617	216.00	218.00	2.00	S6 GP; Qtz-1; 1% Po DI PER 1% Po IG BD 3% Py SUB BD; 1% I1N QZ AK
			557618	218.00	220.00	2.00	S6 GP; Qtz-1; 1% Po DI PER 1% Po IG BD 3% Py SUB BD; 1% I1N QZ AK
			557619	220.00	222.00	2.00	S6 GP; Qtz-1; 5% Py SUB BD
			557620	222.00	223.50	1.50	S6 GP; Qtz-1; 5% Py SUB BD; 5% I1N QZ AK
			557621	223.50	224.80	1.30	S6 GP; Qtz-1; 5% I1N QZ AK

From	To	Lithology	Sample	From	To	Length	Comments
224.80	235.00	<b>S6-S9, Mudrock-Iron formati</b>	557622	224.80	226.50	1.70	S6-S9; Sil-1 Sil-1; 2% Py SS BD 3% Po IG BD; 0.5% I1N QZ AK
<b>Comments:</b>			557623	226.50	228.50	2.00	S6-S9; Sil-1 Sil-1; 2% Py SS BD 3% Po IG BD
			557624	228.50	230.00	1.50	S6 GP; NO ALT; 5% Py SUB BDPo ; 1% I1N QZ AK
			557625	230.00	231.80	1.80	; NO ALT; 5% Py SUB BDPo ; 1% I1N QZ AK
			557626	231.80	233.00	1.20	S6-S9; Sil-1 Ser-1; 5% Po IG BD 3% Py AL BD; 1% I1N QZ AK
			557627	233.00	235.00	2.00	S6-S9; Sil-1 Ser-1; 5% Po IG BD 3% Py AL BD; 1% I1N QZ AK
235.00	271.20		<b>S6, Mudrock</b>	557628	235.00	237.00	2.00
<b>Comments:</b>		557630		237.00	239.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Py SS BD 3% Py SUB BD 3% Po DI BD; 3% I1N QZ AK
		557631		239.00	241.00	2.00	S6 GP; Qtz-1 Carb-1; 2% Py SS BD 3% Py SUB BD 3% Po DI BD; 3% I1N QZ AK
		557632		241.00	243.00	2.00	S6 GP; Qtz-1 Carb-1; 3% I1N QZ AK
		557633		243.00	245.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK
		557634		245.00	247.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK
		557635		247.00	249.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK
		557637		249.00	251.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK
		557638		251.00	253.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK
		557639		253.00	255.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK
		557640		255.00	257.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK
		557641		257.00	259.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK
		557642		259.00	261.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK
		557643		261.00	263.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK
		557644		263.00	265.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK
		557645		265.00	267.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK
		557646		267.00	269.00	2.00	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK
		557647		269.00	270.00	1.00	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK
		557648	270.00	271.20	1.20	S6 GP; Qtz-1 Carb-1; 5% Py SUB BD 2% Po DI BD; 3% I1N QZ AK	



From	To	Lithology	Sample	From	To	Length	Comments
271.20	311.50	S9, Iron formation	555467	271.20	272.00	0.80	S9C Ank; Ank-1; 1% Po DI CTC 1% Po AL VN 0.5% Py SUB VN 0.5% Py SUB BD; 5% I1N QZ AK
<b>Comments:</b>			555468	272.00	273.00	1.00	S9C Ank; Ank-1; 1% Po DI CTC 1% Po AL VN 0.5% Py SUB VN 0.5% Py SUB BD; 5% I1N QZ AK
			555469	273.00	274.00	1.00	S9C Ank; Ank-1; 1% Po DI CTC 1% Po AL VN 0.5% Py SUB VN 0.5% Py SUB BD; 5% I1N QZ AK
			555470	274.00	275.00	1.00	S9C Ank; Ank-1; 1% Po DI CTC 1% Po AL VN 0.5% Py SUB VN 0.5% Py SUB BD; 5% I1N QZ AK
			555471	275.00	276.00	1.00	S9C Ank; Ank-1; 1% Po DI CTC 1% Po AL VN 0.5% Py SUB VN 0.5% Py SUB BD; 5% I1N QZ AK
			555472	276.00	277.00	1.00	S9C Ank; Ank-1; 1% Po DI CTC 1% Po AL VN 0.5% Py SUB VN 0.5% Py SUB BD; 5% I1N QZ AK
			555473	277.00	278.00	1.00	
			555474	278.00	279.00	1.00	S9C Sid; Qtz-1 Ank-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK
			555475	279.00	280.00	1.00	S9C Sid; Qtz-1 Ank-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK
			555476	280.00	281.00	1.00	S9C Sid; Qtz-1 Ank-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK
			555477	281.00	282.00	1.00	S9C Sid; Qtz-1 Ank-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK
			555478	282.00	283.00	1.00	S9C Sid; Qtz-1 Ank-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK
			555480	283.00	284.00	1.00	S9C Sid; Qtz-1 Ank-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK
			555481	284.00	284.90	0.90	S9C Sid; Qtz-1 Ank-1 Chl-1; 0.5% Po AL VN; 1% I1N QZ AK
			557650	284.90	287.00	2.10	S6g GP; Ank-1 Qtz-1; 0.1% Po LA BD; 3% I1N QZ CC
			557651	287.00	289.00	2.00	S6g GP; Ank-1 Qtz-1; 5% Po IG SCH; 3% I1N QZ CC
			557652	289.00	290.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC
			557653	290.00	291.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC
			557654	291.00	292.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC
			557655	292.00	293.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC
			557657	293.00	294.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC
		557658	294.00	295.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557659	295.00	296.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557660	296.00	297.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557661	297.00	298.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557662	298.00	299.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557663	299.00	300.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557664	300.00	301.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557665	301.00	302.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557666	302.00	303.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557667	303.00	304.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557668	304.00	305.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557670	305.00	306.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557671	306.00	307.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557672	307.00	308.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557673	308.00	309.00	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	
		557674	309.00	310.50	1.50	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC	

From	To	Lithology	Sample	From	To	Length	Comments
			557675	310.50	311.50	1.00	S9C Sid; Qtz-1 Carb-1; 0.5% Po DI BD; 3% I1N QZ CC
311.50	320.00	<b>S6g, Grey Shale</b>	557677	311.50	313.00	1.50	S6g; Chl-1 Ank-1 Qtz-1; 2% Po AL VN; 3% I1N QZ AK
			557678	313.00	315.00	2.00	S6g; Chl-1 Ank-1 Qtz-1; 2% Po AL VN; 3% I1N QZ AK
<b>Comments:</b>			557679	315.00	317.00	2.00	S6g; Chl-1 Ank-1 Qtz-1; 2% Po AL VN; 3% I1N QZ AK
			557680	317.00	319.00	2.00	S6g; Chl-1 Ank-1 Qtz-1; 2% Po AL VN; 3% I1N QZ AK
			557681	319.00	320.00	1.00	S6g; Chl-1 Ank-1 Qtz-1; 2% Po AL VN; 3% I1N QZ AK
320.00	329.30	<b>S9, Iron formation</b>	555482	320.00	321.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 BL-1; 2% Po AL VN; 8% I1N QZ AK
			555483	321.00	322.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 BL-1; 2% Po AL VN; 8% I1N QZ AK
<b>Comments:</b>			555484	322.00	323.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 BL-1; 2% Po AL VN; 8% I1N QZ AK
			555485	323.00	324.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 BL-1; 2% Po AL VN; 8% I1N QZ AK
			555487	324.00	325.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 BL-1; 2% Po AL VN; 8% I1N QZ AK
			555488	325.00	326.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 BL-1; 2% Po AL VN; 8% I1N QZ AK
			555489	326.00	327.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 BL-1; 2% Po AL VN; 8% I1N QZ AK
			555490	327.00	328.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 BL-1; 2% Po AL VN; 8% I1N QZ AK
		555491	328.00	329.30	1.30	S9C Ank; Ank-2 Qtz-3 Chl-1 BL-1; 2% Po AL VN; 8% I1N QZ AK	
329.30	332.30	<b>S6, Mudrock</b>	555492	329.30	330.50	1.20	S6 GP; Carb-1 Qtz-1; 5% Po IG BD 2% Py SUB BD; 1% I1N QZ
			555493	330.50	332.30	1.80	S6 GP; Carb-1 Qtz-1; 5% Po IG BD 2% Py SUB BD; 1% I1N QZ
<b>Comments:</b>							
332.30	348.50	<b>S9, Iron formation</b>	555494	332.30	333.50	1.20	S9C Ank; Qtz-2 Chl-1 Ank-2; 3% Po IG SCH; 15% I1N QZ AK
			555495	333.50	335.00	1.50	S9C Ank; Qtz-1 Chl-1 Ank-1; 3% Po IG SCH; 5% I1N QZ AK
<b>Comments:</b>			555496	335.00	336.00	1.00	S9C Ank; Qtz-1 Chl-1 Ank-1; 3% Po IG SCH; 5% I1N QZ AK
			555497	336.00	337.00	1.00	S9C Ank; Qtz-1 Chl-1 Ank-1; 3% Po IG SCH; 5% I1N QZ AK
			555498	337.00	338.00	1.00	S9C Ank; Qtz-1 Chl-1 Ank-1; 3% Po IG SCH; 5% I1N QZ AK
			555500	338.00	339.00	1.00	S9C Ank; Qtz-1 Chl-1 Ank-1; 3% Po IG SCH; 5% I1N QZ AK
			555501	339.00	340.00	1.00	S9C Ank; Qtz-1 Chl-1 Ank-1; 3% Po IG SCH; 5% I1N QZ AK
			555502	340.00	341.00	1.00	S9C Ank; Qtz-1 Chl-1 Ank-1; 3% Po IG SCH; 5% I1N QZ AK
			555503	341.00	342.00	1.00	S9C Ank; Qtz-1 Chl-1 Ank-1; 3% Po IG SCH; 5% I1N QZ AK
			557682	342.00	343.00	1.00	S9C Ank; Qtz-1 Chl-1 Ank-1; 3% Po IG SCH
			557683	343.00	344.00	1.00	S9C Ank; Qtz-1 Chl-1 Ank-1; 3% Po IG SCH
			557684	344.00	345.00	1.00	S9C Ank; Qtz-1 Chl-1 Ank-1; 3% Po IG SCH
			557685	345.00	346.00	1.00	S9C Ank; Qtz-1 Chl-1 Ank-1; 3% Po IG SCH
			557686	346.00	347.00	1.00	S9C Ank; Qtz-1 Chl-1 Ank-1; 3% Po IG SCH
			557687	347.00	348.50	1.50	S9C Ank; Qtz-1 Chl-1 Ank-1; 3% Po IG SCH

From	To	Lithology	Sample	From	To	Length	Comments
348.50	363.40	S6g, Grey Shale	557688	348.50	350.00	1.50	S6g GP; Carb-1; 0.5% Po DI BD
			557690	350.00	352.00	2.00	S6g GP; Carb-1; 0.5% Po DI BD
<b>Comments:</b>			557691	352.00	354.00	2.00	S6g GP; Carb-1; 0.5% Po DI BD
			557692	354.00	356.00	2.00	S6g GP; Carb-1; 0.5% Po DI BD
			557693	356.00	358.00	2.00	S6g GP; Carb-1; 0.5% Po DI BD
			557694	358.00	360.00	2.00	S6g GP; Carb-1; 0.5% Po DI BD
			557695	360.00	362.00	2.00	S6g GP; Carb-1; 0.5% Po DI BD
			557697	362.00	363.40	1.40	S6g GP; Carb-1; 0.5% Po DI BD
363.40	380.00	S9, Iron formation	557698	363.40	365.00	1.60	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
			557699	365.00	366.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
<b>Comments:</b>			557700	366.00	367.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
			557701	367.00	368.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
			557702	368.00	369.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
			557703	369.00	370.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
			557704	370.00	371.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
			557705	371.00	372.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
			557706	372.00	373.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
			557707	373.00	374.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
			557708	374.00	375.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
			557710	375.00	376.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
			557711	376.00	377.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
			557712	377.00	378.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
			557713	378.00	379.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN
			557714	379.00	380.00	1.00	S9C Ank; Qtz-1; 0.1% Po AL VN 0.1% Py DI VN

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
10.00	335.40	-57.70	FM	Test Non-OK	
13.00	329.80	-57.70	FM	Test Non-OK	
16.00	333.50	-58.00	FM	Test Non-OK	
19.00	258.60	-57.80	FM	Test Non-OK	
22.00	221.90	-57.50	FM	Test Non-OK	
25.00	249.20	-57.70	FM	Test OK-Accept	
28.00	250.70	-57.70	FM	Test OK-Accept	
31.00	250.40	-57.60	FM	Test OK-Accept	
34.00	245.90	-58.30	FM	Test OK-Accept	
37.00	246.80	-57.90	FM	Test OK-Accept	
40.00	246.10	-57.50	FM	Test OK-Accept	
43.00	242.00	-57.50	FM	Test OK-Accept	
46.00	251.40	-57.30	FM	Test OK-Accept	
49.00	250.80	-57.30	FM	Test OK-Accept	
52.00	250.10	-57.30	FM	Test OK-Accept	
55.00	249.10	-57.30	FM	Test OK-Accept	
58.00	245.60	-58.10	FM	Test Non-OK	
61.00	249.20	-57.10	FM	Test OK-Accept	
64.00	247.90	-57.10	FM	Test OK-Accept	
67.00	248.50	-57.00	FM	Test OK-Accept	
70.00	229.10	-57.00	FM	Test Non-OK	
73.00	238.80	-57.00	FM	Test OK-Accept	
76.00	247.00	-57.00	FM	Test OK-Accept	
79.00	267.70	-53.00	FM	Test Non-OK	
82.00	251.40	-57.00	FM	Test OK-Accept	
85.00	250.20	-57.40	FM	Test OK-Accept	
88.00	251.70	-57.10	FM	Test OK-Accept	
91.00	251.20	-57.20	FM	Test OK-Accept	
94.00	251.70	-57.10	FM	Test OK-Accept	
97.00	251.70	-57.10	FM	Test OK-Accept	
100.00	251.40	-57.10	FM	Test OK-Accept	
103.00	218.80	-64.00	FM	Test Non-OK	
106.00	243.40	-57.00	FM	Test Non-OK	
109.00	248.90	-57.00	FM	Test Non-OK	
112.00	249.40	-57.00	FM	Test Non-OK	
115.00	247.10	-57.30	FM	Test Non-OK	
118.00	251.10	-56.90	FM	Test Non-OK	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
121.00	254.60	-56.90	FM	Test Non-OK	
124.00	246.40	-56.90	FM	Test Non-OK	
127.00	254.00	-56.90	FM	Test OK-Accept	
130.00	255.40	-56.80	FM	Test Non-OK	
133.00	252.50	-56.90	FM	Test OK-Accept	
136.00	249.60	-56.80	FM	Test OK-Accept	
139.00	251.90	-56.80	FM	Test Non-OK	
142.00	251.70	-56.80	FM	Test OK-Accept	
145.00	255.30	-56.70	FM	Test Non-OK	
148.00	251.60	-56.70	FM	Test OK-Accept	
151.00	250.90	-56.70	FM	Test Non-OK	
154.00	254.70	-57.10	FM	Test Non-OK	
157.00	253.90	-56.70	FM	Test OK-Accept	
160.00	253.70	-56.70	FM	Test OK-Accept	
163.00	203.50	-68.40	FM	Test Non-OK	
166.00	251.70	-56.70	FM	Test OK-Accept	
169.00	248.00	-56.70	FM	Test Non-OK	
172.00	246.10	-56.70	FM	Test Non-OK	
175.00	234.50	-56.60	FM	Test Non-OK	
178.00	246.40	-56.60	FM	Test Non-OK	
181.00	240.90	-56.50	FM	Test Non-OK	
184.00	249.00	-56.50	FM	Test Non-OK	
187.00	251.40	-56.40	FM	Test Non-OK	
190.00	250.30	-56.30	FM	Test Non-OK	
193.00	251.10	-56.30	FM	Test Non-OK	
196.00	247.90	-56.20	FM	Test Non-OK	
199.00	254.20	-56.20	FM	Test OK-Accept	
202.00	254.20	-56.30	FM	Test OK-Accept	
205.00	254.30	-56.20	FM	Test OK-Accept	
208.00	254.00	-56.20	FM	Test OK-Accept	
211.00	253.90	-56.20	FM	Test OK-Accept	
214.00	252.50	-56.20	FM	Test OK-Accept	
217.00	252.90	-56.20	FM	Test OK-Accept	
220.00	249.80	-56.20	FM	Test OK-Accept	
223.00	254.10	-56.20	FM	Test OK-Accept	
226.00	252.60	-56.10	FM	Test OK-Accept	
229.00	252.40	-56.10	FM	Test OK-Accept	
232.00	253.70	-56.10	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
235.00	254.00	-56.00	FM	Test OK-Accept	
238.00	254.70	-56.00	FM	Test OK-Accept	
241.00	255.10	-55.90	FM	Test OK-Accept	
244.00	255.40	-55.90	FM	Test OK-Accept	
247.00	255.20	-55.90	FM	Test OK-Accept	
250.00	254.50	-55.90	FM	Test OK-Accept	
253.00	238.40	-55.90	FM	Test Non-OK	
256.00	258.00	-55.90	FM	Test OK-Accept	
259.00	253.20	-55.90	FM	Test OK-Accept	
262.00	255.70	-55.90	FM	Test OK-Accept	
265.00	253.30	-55.90	FM	Test OK-Accept	
268.00	254.40	-55.80	FM	Test OK-Accept	
271.00	255.50	-55.70	FM	Test OK-Accept	
274.00	255.30	-55.70	FM	Test OK-Accept	
277.00	255.40	-55.60	FM	Test OK-Accept	
280.00	255.40	-55.60	FM	Test OK-Accept	
283.00	255.40	-55.50	FM	Test OK-Accept	
286.00	255.60	-55.50	FM	Test OK-Accept	
289.00	255.20	-55.50	FM	Test OK-Accept	
292.00	255.20	-55.50	FM	Test OK-Accept	
295.00	255.40	-55.40	FM	Test OK-Accept	
298.00	252.70	-55.90	FM	Test Non-OK	
301.00	255.10	-55.40	FM	Test OK-Accept	
304.00	255.20	-55.40	FM	Test OK-Accept	
307.00	255.30	-55.30	FM	Test OK-Accept	
310.00	255.20	-55.40	FM	Test OK-Accept	
313.00	255.00	-55.40	FM	Test OK-Accept	
316.00	250.10	-56.70	FM	Test Non-OK	
319.00	255.80	-55.40	FM	Test OK-Accept	
322.00	255.80	-55.30	FM	Test OK-Accept	
325.00	255.60	-55.40	FM	Test OK-Accept	
328.00	255.80	-55.40	FM	Test OK-Accept	
331.00	255.90	-55.40	FM	Test OK-Accept	
334.00	256.00	-55.40	FM	Test OK-Accept	
337.00	256.10	-55.40	FM	Test OK-Accept	
340.00	256.10	-55.40	FM	Test OK-Accept	
343.00	255.30	-55.40	FM	Test OK-Accept	
346.00	255.70	-55.40	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
349.00	253.50	-55.30	FM	Test OK-Accept	
352.00	256.20	-55.20	FM	Test OK-Accept	
355.00	256.00	-55.20	FM	Test OK-Accept	
358.00	256.00	-55.10	FM	Test OK-Accept	
361.00	255.90	-54.90	FM	Test OK-Accept	
364.00	255.80	-54.90	FM	Test OK-Accept	
367.00	255.60	-54.80	FM	Test OK-Accept	
370.00	255.60	-54.70	FM	Test OK-Accept	
373.00	255.50	-54.70	FM	Test OK-Accept	
376.00	255.60	-54.70	FM	Test OK-Accept	
379.00	255.70	-54.70	FM	Test OK-Accept	

Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
19.00	22.10	I3A	MA	HJ	APH		I3A Chl-Cal			GN		2	FG				SHP
22.10	22.80	I3A	MA	LA	APH		S6g			GM		2	Aph				SHP
22.80	23.00	I3A	BD	HK			S6g GP			BK		2	Aph				SHP
23.00	23.80	I3A	MA	LA	APH		S6g			GM		2	Aph				
23.80	45.00	I3A	MA	FO	HJ	APH	I3A Chl-Cal			GN		2	FG				SHP
45.00	70.80	I3A	MA	PI	HJ		I3A			GN		2	FG		50.00	VN	massive with calcite phenocrysts (15-20%), fine to medium grained, irregular contact with underlying black shale.
70.80	79.20	S6	BD	CS	HK		S6 GP			BK		1	Aph				BC folded from 74-75 metres.
79.20	107.85	I3A	MA	HJ	FO		I3A			GN	GM	2	FG		67.00	SHP	10-12% calcite phenocrx
107.85	108.10	I3A	BD	CS	HK		S6 GP			BK		1	Aph		70.00	SHP	
108.10	108.60	I3A	CS	HJ			I3A			GN	GM	2	FG		47.00	SHP	
108.60	110.10	I3A	BD	HJ	RU		S6 GP			BK		1	Aph		80.00	SHP	
110.10	112.40	I3A	HJ	CS			I3A			VM	GM	1	Aph		62.00	SHP	
112.40	112.80	I3A	BD	CS	HJ		S6 GP			BK			Aph				
112.80	114.60	I3A	CS	HJ			I3A			GN			FG				
114.60	114.80	I3A	BD	CS	HJ		S6 GP			BK			Aph				
114.80	115.40	I3A	CS	HJ			I3A			GN			FG				
115.40	123.50	S6	BD	RU	HK	CS	S6 GP			BK		1	Aph				black shale with 8-10% mm to cm scale quartz-carbonate veining.
123.50	151.00	S6	BD	RU	CS	IU	S6 GP	2.00	Carbonate	BK	GD	1	Aph				black shale injected with 15% quartz-ankerite-pyrrhotite-pyrite-sphalerite-chalcopyrite decimetric veins.
151.00	162.55	S6	BD	RU	CS		S6			BK	GM	1	Aph				



From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
162.55	164.00	S6	MA	BX	CKS		F2			BK	BN	2	Aph				
164.00	224.80	S6	BD	CS			S6 GP	3.00	Silica	BK		1	Aph				
224.80	228.50	S6-S9	RU	BD	HJ		S6-S9	25.00	Silica	GL	GM	2	FG		76.00	SHP	cherty sulfidized bands hosted in mudstone; maybe iron formation or alternance of Fe-poor chert with mudstone? contains light sericite alteration associated with siliceous bands (veins?). folded and affected by S2
228.50	231.50	S6-S9	BD	CS	HK		S6 GP			BK		1	Aph				
231.50	235.00	S6-S9	RU	BD	HJ		S6-S9	25.00	Silica	GM	GL	2	FG		72.00	SHP	
235.00	271.20	S6	BD	CS			S6 GP			BK		1	Aph				
271.20	277.60	S9	BX	IU	FO	BD	S9C Ank	3.00	Carbonate	GL	GM	3	FG		74.00	DIF	
277.60	284.90	S9	RU	BD	HJ		S9C Sid	4.00	Silica	GM		3	FG		72.00	DIF	
284.90	289.00	S9	HJ	CS	BD		S6g GP			BK	GD	2	Aph				
289.00	311.50	S9	BD	RU	HJ		S9C Sid			GM		3	FG				
311.50	320.00	S6g	CS	IU	BD		S6g			GD	GM	2	Aph				DIF strong expression of S2 at 65 to 70 TCA. from the relationship between S0 and S2, D2 antiform seems to be closing towards the west. see photo
320.00	329.30	S9	BX	BD	RU	IU	S9C Ank	5.00	Carbonate	GL	GM	3	FG		79.00	BRE	
329.30	332.30	S6	BD	BX	CS		S6 GP			BK		1	Aph				
332.30	348.50	S9	BD	BX	HK		S9C Ank	8.00	Silica	GL		3	FG				
348.50	363.40	S6g	BD	CS	HJ		S6g GP	3.00	Carbonate	BK	GD	2	Aph		70.00	SHP	1% mm rounded nodules of quartz-carbonate. finely bedded + schistous grey shale with strong S2.
363.40	380.00	S9	BD	RU	HJ		S9C Ank	8.00	Carbonate	GM	GL	3	FG			NA	2% mm martite disseminated along beds, low CA fracturing from 370 to 372.8 metres.

**Mineralization Data**

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
19.00	22.10		Py	0.10	SUB	PER											
22.10	22.80		Po	3.00	DI	PER	very finely disseminated pyrrhotite, throughout interval										
22.80	23.00		Po	5.00	IG	VN											
23.00	23.80		Po	2.00	DI	PER	very finely disseminated pyrrhotite, throughout interval	Po	0.50	AL	VN		Cp	0.10	AL	VN	
23.80	36.50		Py	0.50	SUB	PER											
36.50	58.00		Py	0.50	SUB	PER		Po	0.50	AL	VN						
58.00	62.00		Po	1.00	AL	VN		Py	0.50	SUB	PER						
62.00	69.00		Py	0.50	SUB	PER											
69.00	70.80		Py	0.50	SUB	PER		Po	3.00	DI	PER						
70.80	79.20		Po	6.00	LA	BD		Po	2.00	IG	BD		Py	5.00	SUB	BD	
79.20	107.85		Py	2.00	SUB	PER											
107.85	108.10		Po	15.00	IG	BD		Py	3.00	SUB	BD						
108.10	108.60		Po	5.00	AL	PER											
108.60	110.10		Po	8.00	IG	BD		Py	5.00	SUB	BD						
110.10	112.40		Po	3.00	AL	PER		Py	2.00	SUB	BD		Po	2.00	AL	VN	
112.40	112.80		Po	8.00	IG	BD		Po	2.00	AL	VN						
112.80	114.60		Po	3.00	AL	PER		Cp	0.10	AL	VN						
114.60	114.80		Po	8.00	IG	BD		Py	2.00	SUB	BD						
114.80	115.40		Po	3.00	AL	PER		Py	1.00	AL	VN						
115.40	123.50		Po	5.00	LA	BD											
123.50	162.40		Po	5.00	LA	BD		Py	5.00	SS	BD		Cp	1.00	AL	VN	
162.40	164.00		Po	15.00	SSM	BD		Py	5.00	SS	SCH		Cp	2.00	AL	VN	
164.00	194.00		Po	3.00	IG	BD		Py	5.00	SUB	BD		Cp	1.00	AL	VN	
194.00	220.00		Po	1.00	DI	PER	finely disseminated pyrrhotite in cherty, sulfidized beds	Po	1.00	IG	BD		Py	3.00	SUB	BD	
220.00	224.60		Py	5.00	SUB	BD											
224.60	228.50		Py	2.00	SS	BD		Po	3.00	IG	BD						
228.50	231.80		Py	5.00	SUB	BD		Po									
231.80	235.10		Po	5.00	IG	BD		Py	3.00	AL	BD						
235.10	242.30		Py	2.00	SS	BD		Py	3.00	SUB	BD		Po	3.00	DI	BD	
242.30	271.20		Py	5.00	SUB	BD		Po	2.00	DI	BD	finely disseminated pyrrhotite in sulfidized chert beds.					

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
271.20	277.60		Po	1.00	DI	CTC		Po	1.00	AL	VN		Py	0.50	SUB	VN	
277.60	284.90		Po	0.50	AL	VN											
284.90	288.70		Po	0.10	LA	BD											
288.70	289.00		Po	5.00	IG	SCH											
289.00	311.50		Po	0.50	DI	BD											
311.50	320.00		Po	2.00	AL	VN											
320.00	329.30		Po	2.00	AL	VN											
329.30	332.30		Po	5.00	IG	BD		Py	2.00	SUB	BD						
332.30	348.50		Po	3.00	IG	SCH											
348.50	363.40		Po	0.50	DI	BD											
363.40	380.00		Po	0.10	AL	VN		Py	0.10	DI	VN						

## Alteration Data

From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
19.00	45.00	CC	2	PEN	Qtz	1	VN	CC	2	VN	
45.00	68.90	CC	3	DI	Qtz	1	VN	Carb	1	PEN	
68.90	70.80	Carb	4	CTC	CC	2	PEN				
70.80	79.20	Carb	1	VN	Qtz	1	VN				
79.20	107.85	CC	1	PEN	CC	1	VN	Qtz	1	VN	
107.85	108.10	CC	1	VN	Qtz	1	VN				
108.10	108.60	CC	2	PEN	Ser	1	PEN	Chl	1	PEN	
108.60	110.10	CC	1	VN	Qtz	1	VN				
110.10	112.40	CC	1	PEN	Ser	1	PEN	Sil	1	VN	
112.40	112.80	CC	1	VN	Qtz	1	VN				
112.80	114.60	Qtz	1	VN	Ser	1	PEN	Chl	1	VN	
114.60	114.80	Qtz	1	VN	CC	1	VN				
114.80	115.40	Ser	1	PEN	CC	1	PEN	Chl	1	PEN	
115.40	123.50	CC	1	VN	Qtz	1	VN				
123.50	151.00	Qtz	3	VN	Ank	1	VN	Carb	1	VN	
151.00	162.55	Qtz	2	VN							
162.55	164.00	Sil	1	PEN							
164.00	196.00	Qtz	2	VN	Ank	1	VN				
196.00	224.80	Qtz	1	VN							
224.80	228.50	Sil	1	PEN	Sil	1	VN				
228.50	231.80	NO ALT									
231.80	235.10	Sil	1	VN	Ser	1	VN				
235.10	271.20	Qtz	1	VN	Carb	1	VN				
271.20	277.60	Ank	1	VN							
277.60	284.90	Qtz	1	VN	Ank	1	VN	Chl	1	VN	
284.90	289.00	Ank	1	VN	Qtz	1	VN				
289.00	311.50	Qtz	1	VN	Carb	1	PEN				
311.50	320.00	Chl	1	VN	Ank	1	VN	Qtz	1	VN	
320.00	329.30	Ank	2	VN	Qtz	3	VN	Chl	1	VN	
329.30	332.30	Carb	1	VN	Qtz	1	VN				
332.30	333.50	Qtz	2	VN	Chl	1	VN	Ank	2	VN	
333.50	348.50	Qtz	1	VN	Chl	1	VN	Ank	1	VN	
348.50	363.40	Carb	1	DI							

From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
363.40	380.00	Qtz	1	VN							weak quartz veining with chloritisation and ankeritisation.

## Vein Data

From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments	
19.00	22.10	2.00		I1N	UNK	Veinlet <5cm	CC	50.00	QZ	50.00											
22.10	23.80	2.00		I1N	UNK	Veinlet <5cm	CC	47.00	QZ	50.00	GP	3.00				Po	2.00	Py	0.50	trace chalcopyrite in veins.	
23.80	40.00	2.00		I1N	UNK	Veinlet <5cm	CC	50.00	QZ	50.00											
40.00	42.00	8.00		I1N	UNK	Vein >5cm	QZ	50.00	CC	45.00	CL	3.00				Po	1.00	Py	0.50		
42.00	58.00	2.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00											
58.00	62.00	5.00		I1N	UNK	Vein >5cm	QZ	50.00	CC	30.00	CL	10.00				Py	1.00				
62.00	70.80	0.50		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00											
70.80	79.20	1.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00											
79.20	96.80	0.10		I1N	UNK	Veinlet <5cm	QZ	100.00													
96.80	98.00	3.00		I1N	UNK	Vein >5cm	QZ	50.00	CC	45.00	CL										
98.00	112.40	1.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CC												
112.40	113.00	20.00		I1N	UNK	Vein >5cm	QZ	60.00	AK	10.00	SR	10.00				Po	3.00	Py	1.00		
113.00	115.40	2.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	45.00	AK	5.00									
115.40	123.50	2.00		I1N	UNK	Veinlet <5cm	QZ	70.00	CC	30.00						Po	3.00	Py	1.00		
123.50	151.00	15.00		I1N	UNK	Vein >5cm	QZ	97.00	AK	3.00						Po	3.00	Py	2.00	trace à 1% chalcopyrite et sphalérite	
151.00	162.55	3.00		I1N	UNK	Veinlet <5cm	QZ	100.00													
162.55	164.00	0.10		I1N	UNK	Veinlet <5cm	QZ	100.00													
164.00	173.50	5.00		I1N	UNK	Veinlet <5cm	QZ	95.00	CC	2.00	AK	3.00				Cp	2.00	Sp	1.00		
173.50	179.00	2.00		I1N	UNK	Veinlet <5cm	QZ	95.00	CC	2.00	AK	3.00				Cp	1.00	Sp	1.00		
179.00	188.00	8.00		I1N	UNK	Vein >5cm	QZ	95.00	CC	2.00	AK	3.00				Cp	1.00	Sp	1.00		
188.00	199.00	3.00		I1N	UNK	Vein >5cm	QZ	95.00	CC	2.00	AK	3.00				Cp	1.00	Sp	1.00		
199.00	221.00	1.00		I1N	UNK	Vein >5cm	QZ	97.00	AK	1.00						Po	1.00	Py	1.00		
221.00	224.80	5.00		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	2.00						Py	1.00	Po	1.00	1% chalcopyrite	
224.80	228.40	0.50		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	2.00						Py	1.00	Po	1.00		

From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments	
228.40	235.10	1.00		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	2.00											
235.10	271.20	3.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00						Po	1.00	Cp	0.10		
271.20	277.60	5.00		I1N	UNK	Vein >5cm	QZ	94.00	AK	3.00	SR	3.00				Po	1.00				
277.60	284.90	1.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00						Po	0.50				
284.90	311.50	3.00		I1N	UNK	Veinlet <5cm	QZ	70.00	CC	30.00											
311.50	320.00	3.00		I1N	UNK	Vein >5cm	QZ	90.00	AK	5.00	CL	3.00				Po	2.00	Py	0.20	sericite also present, 2%	
320.00	329.30	8.00		I1N	UNK	Veinlet <5cm	QZ	90.00	AK	8.00						Po	1.00				
329.30	332.30	1.00		I1N	UNK	Veinlet <5cm	QZ	100.00													
332.30	333.50	15.00		I1N	UNK	Vein >5cm	QZ	85.00	AK	8.00	CL	4.00				Po	3.00	Py	1.00	sericite: 3%	
333.50	342.50	5.00		I1N	UNK	Veinlet <5cm	QZ	93.00	AK	5.00	CL	2.00				Po	1.00			mm veinlets crosscutting strati at low CA with drillhole	

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
74.00	75.00	FLD	4		
167.20	167.30	FLD	4		S fold

Oriented Structure Data													
Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
21.70	VN		70.00	104.00	240.10	-57.63	-33.07	7.56	0.00	97.56			
22.10	CNT		70.00										
23.70	AxialPlane		70.00										
23.80	CNT		56.00										
24.70	S0		67.00	100.00	250.45	-57.70	-35.48	21.98	0.00	111.98			
25.50	S0		53.00	79.00	250.65	-57.68	-52.15	29.08	0.00	119.08			
32.00	VN		62.00										
32.70	S0		66.00										
33.70	S0		70.00	284.00	246.45	-57.70	-41.40	306.33	0.00	36.33			
35.90	VN		78.00	222.00	244.73	-57.50	-24.77	315.34	0.00	45.34			
36.10	S0		64.00	262.00	244.05	-57.50	-37.74	288.88	0.00	18.88			
37.10	S0		70.00										
40.30	S0		50.00										
43.30	VN		48.00	82.00	250.57	-57.30	-54.90	34.66	0.00	124.66			
45.10	VN		56.00	19.00	249.93	-57.30	-65.67	351.46	0.00	81.46			
52.50	VN		59.00	230.00	248.60	-57.27	-25.83	273.72	0.00	3.72			
70.60	S0		64.00	47.00	251.00	-57.13	-53.65	4.46	0.00	94.46			
72.80	S0		62.00	328.00	250.45	-57.35	-58.09	323.41	0.00	53.41			
75.80	S0		83.00	303.00	251.53	-57.13	-37.09	331.78	0.00	61.78			
76.00	AxialPlane		64.00	324.00	251.53	-57.13	-55.77	323.38	0.00	53.38			
76.00			64.00	324.00	251.53	-57.13	-55.77	323.38	0.00	53.38	89.00	FAXIS	
82.90	S0		70.00	132.00	251.65	-57.10	-24.04	20.26	0.00	110.26			
83.10	VN		73.00	98.00	251.60	-57.10	-34.41	12.42	0.00	102.42			
99.80	VN		25.00	24.00	250.43	-56.97	-84.43	182.17	0.00	272.17			
112.00	S2		47.00	1.00	253.47	-56.87	-76.13	344.17	0.00	74.17			
112.00	S0		70.00	346.00	253.47	-56.87	-52.73	337.50	0.00	67.50			
112.20	S0		43.00	192.00	252.98	-56.88	-15.83	196.85	0.00	286.85			
112.80	CNT		80.00	287.00	252.02	-56.88	-37.15	326.05	0.00	56.05			
113.70	VN		75.00	194.00	251.05	-56.85	-18.91	329.91	0.00	59.91			
115.10	S0		74.00	1.00	249.98	-56.80	-49.20	340.35	0.00	70.35			
115.40	CNT		70.00	50.00	249.98	-56.80	-48.25	0.54	0.00	90.54			
117.10	S0		65.00	235.00	251.52	-56.80	-26.99	291.80	0.00	21.80			
118.70	S0		77.00	61.00	251.80	-56.80	-40.92	359.28	0.00	89.28			
118.90	S0		80.00	80.00	251.80	-56.80	-36.14	358.65	0.00	88.65			



Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
119.50	AxialPlane		62.00	1.00	251.77	-56.80	-61.20	342.30	0.00	72.30			
119.50			62.00	1.00	251.77	-56.80	-61.20	342.30	0.00	72.30	161.00	FAXIS	
123.70	VN		62.00	331.00	253.45	-56.70	-59.17	328.08	0.00	58.08			
123.90	S2		52.00	1.00	253.45	-56.70	-71.30	344.10	0.00	74.10			
125.30	AxialPlane		40.00										
126.70	S0		55.00										
129.80	S0		76.00										
132.80	S0		64.00	321.00	253.87	-56.70	-55.65	324.35	0.00	54.35			
133.00	AxialPlane		55.00	307.00	253.87	-56.70	-60.32	312.05	0.00	42.05			
133.00			55.00	307.00	253.87	-56.70	-60.32	312.05	0.00	42.05	79.00	FAXIS	
138.10	VN		38.00	304.00	219.57	-64.50	-68.53	264.98	0.00	354.98			
139.30	AxialPlane		62.00	24.00	235.63	-60.60	-56.03	338.94	0.00	68.94			
139.30			62.00	24.00	235.63	-60.60	-56.03	338.94	0.00	68.94	91.00	FAXIS	
140.00			57.00	312.00	243.67	-58.65	-58.22	305.23	0.00	35.23	58.00	FAXIS	
140.00	AxialPlane		57.00	312.00	243.67	-58.65	-58.22	305.23	0.00	35.23			
140.20	S0		68.00	7.00	251.08	-56.70	-55.19	344.27	0.00	74.27			
147.30	VN		72.00	292.00	236.43	-56.62	-43.08	301.63	0.00	31.63			
147.90	S0		74.00	330.00	236.48	-56.60	-47.85	315.77	0.00	45.77			
148.30	S0		78.00	323.00	238.47	-56.60	-43.51	318.00	0.00	48.00			
151.80	S0		82.00	282.00	242.73	-56.53	-35.89	319.31	0.00	49.31			
153.90	S0		76.00	17.00	244.95	-56.50	-47.04	340.50	0.00	70.50			
159.70	AxialPlane		77.00	96.00	250.48	-56.32	-34.53	3.73	0.00	93.73			
159.70			77.00	96.00	250.48	-56.32	-34.53	3.73	0.00	93.73	50.00	FAXIS	
160.30	VN		65.00	26.00	250.43	-56.30	-57.09	353.18	0.00	83.18			
160.90	AxialPlane		83.00	92.00	250.57	-56.30	-34.09	353.12	0.00	83.12			
160.90			83.00	92.00	250.57	-56.30	-34.09	353.12	0.00	83.12	73.00	FAXIS	
161.00	AxialPlane		77.00	232.00	250.57	-56.30	-27.44	317.95	0.00	47.95			
161.00			77.00	232.00	250.57	-56.30	-27.44	317.95	0.00	47.95	104.00	FAXIS	
161.30	S0		76.00	14.00	250.70	-56.30	-47.39	345.26	0.00	75.26			
164.50	VN		52.00	318.00	248.97	-56.23	-66.37	312.25	0.00	42.25			
165.00	S0		76.00	7.00	248.43	-56.22	-47.71	340.72	0.00	70.72			
166.30			84.00	5.00	251.05	-56.20	-39.78	341.87	0.00	71.87	48.00	ELINE	
166.40	S0		59.00	4.00	251.05	-56.20	-64.76	343.33	0.00	73.33			
167.20	AxialPlane		58.00	51.00	253.15	-56.20	-58.72	11.96	0.00	101.96			
167.20			58.00	51.00	253.15	-56.20	-58.72	11.96	0.00	101.96	1.00	FAXIS	

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
171.80			76.00	20.00	254.27	-56.23	-47.14	350.75	0.00	80.75	31.00	ELINE	
175.80	AxialPlane		74.00	1.00	253.97	-56.20	-49.80	344.33	0.00	74.33			
175.80			74.00	1.00	253.97	-56.20	-49.80	344.33	0.00	74.33	81.00	FAXIS	
175.90	S0		66.00	1.00	253.97	-56.20	-57.80	344.45	0.00	74.45			
179.50			67.00	182.00	252.97	-56.20	-10.84	338.81	0.00	68.81	29.00	ELINE	
179.80	VN		57.00	321.00	252.73	-56.20	-62.52	320.01	0.00	50.01			
182.20	S0		79.00	259.00	252.83	-56.20	-33.28	322.88	0.00	52.88			
182.50	AxialPlane		56.00	181.00	252.83	-56.20	-0.59	233.52	0.00	323.52			
182.50			56.00	181.00	252.83	-56.20	-0.59	233.52	0.00	323.52	90.00	FAXIS	
188.20	S2		37.00	246.00	253.60	-56.17	-47.10	258.71	0.00	348.71			
191.10	S0		63.00	230.00	252.50	-56.10	-25.54	288.72	0.00	18.72			
198.10	S0		80.00	341.00	254.23	-56.00	-43.56	339.53	0.00	69.53			
202.30	S0		75.00	70.00	255.03	-55.92	-41.38	6.62	0.00	96.62			
205.60	S0		71.00	31.00	255.33	-55.90	-51.21	357.76	0.00	87.76			
210.40	S0		71.00	36.00	251.82	-55.90	-50.56	356.16	0.00	86.16			
213.40	S0		73.00	24.00	244.93	-55.90	-50.05	343.86	0.00	73.86			
217.30	AxialPlane		59.00	30.00	254.00	-55.90	-62.63	0.86	0.00	90.86			
217.30			59.00	30.00	254.00	-55.90	-62.63	0.86	0.00	90.86		FAXIS	
217.60	S0		27.00	196.00	253.62	-55.90	-31.12	191.99	0.00	281.99			
220.10	S0		60.00	354.00	255.30	-55.90	-64.00	341.97	0.00	71.97			
224.00	S2		44.00	25.00	253.85	-55.85	-77.94	1.96	0.00	91.96			
224.10	AxialPlane		57.00	344.00	254.03	-55.83	-66.43	334.61	0.00	64.61			
224.10			57.00	344.00	254.03	-55.83	-66.43	334.61	0.00	64.61	97.00	FAXIS	
225.80	S0		80.00	344.00	254.77	-55.77	-43.92	340.81	0.00	70.81			
227.20	AxialPlane		77.00	41.00	255.32	-55.72	-44.81	357.40	0.00	87.40			
227.20			77.00	41.00	255.32	-55.72	-44.81	357.40	0.00	87.40	164.00	FAXIS	
227.70	S0		80.00	320.00	255.47	-55.70	-42.39	335.94	0.00	65.94			
228.90	AxialPlane		57.00	98.00	255.40	-55.70	-42.65	38.16	0.00	128.16			
228.90			57.00	98.00	255.40	-55.70	-42.65	38.16	0.00	128.16	77.00	FAXIS	
235.10	CNT		72.00	342.00	255.40	-55.58	-51.80	338.42	0.00	68.42			
237.50	S0		77.00	345.00	255.40	-55.52	-47.15	340.84	0.00	70.84			
241.50	S0		80.00	306.00	255.40	-55.50	-41.08	333.06	0.00	63.06			
244.20	S0		74.00	355.00	255.20	-55.50	-50.46	343.41	0.00	73.41			
245.30	S0		76.00	9.00	255.23	-55.48	-48.39	348.13	0.00	78.13			
249.90	S0		71.00	288.00	253.15	-55.82	-43.48	316.41	0.00	46.41			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
251.30	AxialPlane		82.00	321.00	253.90	-55.65	-40.84	336.20	0.00	66.20			
251.30			82.00	321.00	253.90	-55.65	-40.84	336.20	0.00	66.20	24.00	FAXIS	
251.70	S2		76.00	23.00	254.30	-55.57	-47.60	351.65	0.00	81.65			
254.20	S2		49.00	338.00	255.17	-55.40	-73.99	330.35	0.00	60.35			
254.40	S0		80.00	70.00	255.17	-55.40	-39.02	0.19	0.00	90.19			
255.90	S0		70.00	358.00	255.23	-55.37	-54.63	344.39	0.00	74.39			
260.40	S2		55.00	358.00	255.17	-55.40	-69.59	343.94	0.00	73.94			
261.90	AxialPlane		46.00	5.00	255.07	-55.40	-78.51	348.61	0.00	78.61			
261.90			46.00	5.00	255.07	-55.40	-78.51	348.61	0.00	78.61	24.00	FAXIS	
262.30	S0		82.00	330.00	255.03	-55.40	-41.70	339.03	0.00	69.03			
270.30	S0		70.00	1.00	255.77	-55.32	-54.68	346.19	0.00	76.19			
271.20	CNT		80.00										
273.80	S0		71.00	335.00	255.70	-55.40	-52.36	335.69	0.00	65.69			
274.10	VN		58.00	137.00	255.73	-55.40	-23.35	51.52	0.00	141.52			qz-ak-sr po-py vein
277.10	S0		74.00	325.00	255.88	-55.40	-48.47	333.69	0.00	63.69			
281.70	S0		76.00	310.00	256.07	-55.40	-44.73	330.80	0.00	60.80			
284.90	CNT		72.00	294.00	246.10	-57.50	-42.73	311.51	0.00	41.51			
286.90	S0		72.00	336.00	255.57	-55.40	-51.50	336.32	0.00	66.32			
297.20	S0		59.00	142.00	256.03	-55.20	-20.69	49.85	0.00	139.85			
299.00	AxialPlane		73.00	118.00	256.00	-55.15	-30.32	16.76	0.00	106.76			
299.00			73.00	118.00	256.00	-55.15	-30.32	16.76	0.00	106.76	100.00	FAXIS	
300.90	AxialPlane		70.00	134.00	255.97	-55.03	-25.01	21.55	0.00	111.55			
300.90			70.00	134.00	255.97	-55.03	-25.01	21.55	0.00	111.55	35.00	FAXIS	
324.00	S0		55.00	170.00	255.70	-54.70	-5.76	68.63	0.00	158.63			
326.50	VN		66.00	330.00	255.70	-54.70	-57.18	331.70	0.00	61.70			
329.40	S2		77.00	73.00	255.70	-54.70	-40.78	4.93	0.00	94.93			
330.50	S0		62.00										
334.60	S2		65.00	252.00	255.70	-54.70	-35.40	301.76	0.00	31.76			
336.80	VN		34.00	223.00	255.70	-54.70	-36.22	238.81	0.00	328.81			
337.90	S0		74.00	344.00	255.70	-54.70	-50.85	340.08	0.00	70.08			
340.40	S0		75.00	336.00	255.70	-54.70	-49.33	337.72	0.00	67.72			
343.60	S0		76.00	325.00	255.70	-54.70	-47.36	334.83	0.00	64.83			
345.60	VN		71.00	239.00	255.70	-54.70	-29.71	311.43	0.00	41.43			
347.20	S0		77.00	332.00	255.70	-54.70	-47.12	337.41	0.00	67.41			
348.50	CNT		76.00	344.00	255.70	-54.70	-48.89	340.62	0.00	70.62			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
350.40	S2		67.00	334.00	255.70	-54.70	-56.75	333.88	0.00	63.88			
351.90	S2		57.00	102.00	255.70	-54.70	-41.42	39.34	0.00	129.34			
352.50	S2		56.00	324.00	255.70	-54.70	-65.47	324.52	0.00	54.52			
352.70	S0		80.00	96.00	255.70	-54.70	-35.49	3.01	0.00	93.01			
355.10	S2		64.00	337.00	255.70	-54.70	-59.98	334.29	0.00	64.29			
355.50	S0		79.00	230.00	255.70	-54.70	-29.31	328.33	0.00	58.33			
356.20	S2		69.00	325.00	255.70	-54.70	-53.68	330.92	0.00	60.92			
362.10	S0		75.00	310.00	255.70	-54.70	-46.20	329.75	0.00	59.75			
362.50	S2		56.00	324.00	255.70	-54.70	-65.47	324.52	0.00	54.52			
363.40	CNT		68.00										
363.50	VN		64.00	70.00	255.70	-54.70	-49.69	18.40	0.00	108.40			
367.50	S0		69.00	330.00	255.70	-54.70	-54.37	332.96	0.00	62.96			
369.30	S0		74.00	334.00	255.70	-54.70	-50.11	336.64	0.00	66.64			
373.50	S0		73.00	344.00	255.70	-54.70	-51.82	339.82	0.00	69.82			
375.50	S0		76.00	353.00	255.70	-54.70	-49.22	343.47	0.00	73.47			
376.50	S0		66.00	336.00	255.70	-54.70	-57.94	334.44	0.00	64.44			
377.10	S2		67.00	15.00	255.70	-54.70	-57.78	352.57	0.00	82.57			

Sample Data - ASSAY

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557503	19.00	20.50	1.50	2	VO18214845 - Finalized	16/09/2018	0.003	0.070	14.50	152.00	8.28	1,380.0	0.003	328.00	0.35	87.80	99.00
557504	20.50	22.10	1.60	2	VO18214845 - Finalized	16/09/2018	0.003	0.070	14.00	144.00	8.74	1,380.0	0.010	337.00	0.48	94.70	116.00
557505	22.10	23.80	1.70	2	VO18214845 - Finalized	16/09/2018	0.005	0.110	7.20	210.00	9.14	976.0	0.009	220.00	4.45	78.60	220.00
557506	23.80	25.00	1.20	2	VO18214845 - Finalized	16/09/2018	0.002	0.100	25.50	151.50	9.09	1,290.0	0.003	343.00	1.00	94.90	370.00
557507	25.00	27.00	2.00	2	VO18214845 - Finalized	16/09/2018	0.004	0.080	16.80	150.50	8.75	1,280.0	0.010	340.00	0.72	90.90	115.00
557508	27.00	29.00	2.00	2	VO18214845 - Finalized	16/09/2018	0.003	0.060	13.60	132.50	8.14	1,340.0	0.008	345.00	0.41	97.10	103.00
557510	29.00	31.00	2.00	2	VO18214845 - Finalized	16/09/2018	0.003	0.040	12.10	165.00	8.29	1,240.0	0.003	333.00	0.79	97.20	111.00
557511	31.00	33.00	2.00	2	VO18214845 - Finalized	16/09/2018	0.002	0.050	13.30	131.50	7.92	1,260.0	0.015	352.00	0.44	90.10	97.00
557512	33.00	35.00	2.00	2	VO18214845 - Finalized	16/09/2018	0.003	0.060	9.70	184.50	8.16	1,220.0	0.018	368.00	0.39	110.50	100.00
557513	35.00	37.00	2.00	2	VO18214845 - Finalized	16/09/2018	0.003	0.080	11.80	176.50	7.81	1,240.0	0.006	338.00	0.43	125.50	114.00
557514	37.00	39.00	2.00	2	VO18214845 - Finalized	16/09/2018	0.003	0.260	11.00	159.50	7.29	1,060.0	0.007	334.00	0.38	92.80	554.00
557515	39.00	41.00	2.00	2	VO18214845 - Finalized	16/09/2018	0.002	0.120	20.90	117.50	7.59	1,580.0	0.015	301.00	0.30	75.70	423.00
557517	41.00	43.00	2.00	2	VO18214845 - Finalized	16/09/2018	0.002	0.080	16.30	153.00	7.99	1,280.0	0.011	286.00	0.24	75.90	149.00
557518	43.00	45.00	2.00	2	VO18214845 - Finalized	16/09/2018	0.002	0.040	33.50	152.50	7.85	1,130.0	0.005	286.00	0.23	80.70	76.00
557519	45.00	47.00	2.00	2	VO18214845 - Finalized	16/09/2018	0.004	0.050	125.00	147.50	8.51	1,420.0	0.003	208.00	0.17	401.00	92.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557520	47.00	49.00	2.00	2	VO18214845 - Finalized	16/09/2018	0.004	0.060	121.00	156.00	8.22	1,280.0	0.003	206.00	0.14	403.00	87.00
557521	49.00	51.00	2.00	2	VO18203602 - Finalized	12/09/2018	0.001	0.070	109.00	188.00	8.44	1,500.0	0.005	214.00	0.26	384.00	84.00
557522	51.00	53.00	2.00	2	VO18203602 - Finalized	12/09/2018	0.001	0.030	76.90	56.40	8.82	1,400.0	0.003	196.00	0.22	435.00	86.00
557523	53.00	55.00	2.00	2	VO18203602 - Finalized	12/09/2018	0.001	0.070	107.00	188.50	9.13	1,380.0	0.005	201.00	0.20	501.00	88.00
557524	55.00	57.00	2.00	2	VO18203602 - Finalized	12/09/2018	0.003	0.070	77.50	183.00	9.01	1,330.0	0.005	200.00	0.14	488.00	107.00
557525	57.00	59.00	2.00	2	VO18203602 - Finalized	12/09/2018	0.001	0.250	83.50	161.00	8.64	1,620.0	0.008	192.00	0.51	430.00	173.00
557526	59.00	61.00	2.00	2	VO18203602 - Finalized	12/09/2018	0.004	0.210	98.50	174.00	9.45	1,570.0	0.003	223.00	0.28	432.00	137.00
557527	61.00	63.00	2.00	2	VO18203602 - Finalized	12/09/2018	0.001	0.060	60.50	149.00	8.59	1,340.0	0.008	225.00	0.46	321.00	83.00
557528	63.00	65.00	2.00	2	VO18203602 - Finalized	12/09/2018	0.001	0.050	83.00	139.50	8.68	1,420.0	0.007	231.00	0.23	305.00	90.00
557530	65.00	67.00	2.00	2	VO18203602 - Finalized	12/09/2018	0.002	0.060	81.90	121.00	8.87	1,460.0	0.006	238.00	0.25	315.00	90.00
557531	67.00	69.00	2.00	2	VO18203602 - Finalized	12/09/2018	0.001	0.160	96.80	109.50	8.55	1,420.0	0.003	249.00	0.19	259.00	103.00
557532	69.00	70.80	1.80	2	VO18203602 - Finalized	12/09/2018	0.001	0.390	27.80	106.00	8.75	1,550.0	0.007	231.00	0.61	242.00	177.00
557533	70.80	72.00	1.20	2	VO18203602 - Finalized	12/09/2018	0.012	0.910	44.30	287.00	20.70	991.0	0.133	125.00	18.60	135.00	890.00
557534	72.00	74.00	2.00	2	VO18203602 - Finalized	12/09/2018	0.064	3.040	126.00	194.50	19.05	261.0	0.395	226.00	24.70	148.50	10 000.00
557535	74.00	76.00	2.00	2	VO18203602 - Finalized	12/09/2018	0.051	1.020	117.00	224.00	21.00	263.0	0.353	190.00	22.30	129.50	1 210.00
557537	76.00	78.00	2.00	2	VO18203602 - Finalized	12/09/2018	0.041	1.130	77.20	272.00	22.40	202.0	0.262	200.00	21.70	151.50	3 370.00
557538	78.00	79.20	1.20	2	VO18203602 - Finalized	12/09/2018	0.009	0.870	29.70	371.00	20.70	605.0	0.044	153.00	23.10	143.50	412.00
557539	79.20	81.00	1.80	2	VO18203602 - Finalized	12/09/2018	0.001	0.080	31.60	123.50	9.49	1,170.0	0.006	344.00	0.37	80.70	160.00
557540	81.00	83.00	2.00	2	VO18203602 - Finalized	12/09/2018	0.001	0.060	5.40	153.00	9.59	987.0	0.008	368.00	0.41	86.30	114.00
557541	83.00	85.00	2.00	2	VO18203599 - Finalized	10/09/2018	0.001	0.050	3.00	158.00	9.18	1,220.0	0.006	337.00	0.30	109.50	89.00
557542	85.00	87.00	2.00	2	VO18203599 - Finalized	10/09/2018	0.001	0.030	14.00	129.00	8.44	1,340.0	0.010	276.00	0.16	224.00	81.00
557543	87.00	89.00	2.00	2	VO18203599 - Finalized	10/09/2018	0.001	0.040	37.90	138.00	8.26	1,320.0	0.006	194.00	0.31	393.00	84.00
557544	89.00	91.00	2.00	2	VO18203599 - Finalized	10/09/2018	0.001	0.040	32.60	124.50	9.00	1,400.0	0.005	221.00	0.31	432.00	94.00
557545	91.00	93.00	2.00	2	VO18203599 - Finalized	10/09/2018	0.001	0.070	33.60	203.00	9.88	1,620.0	0.011	225.00	0.12	484.00	108.00
557546	93.00	95.00	2.00	2	VO18203599 - Finalized	10/09/2018	0.001	0.070	8.30	180.50	9.49	1,580.0	0.007	261.00	0.20	367.00	100.00
557547	95.00	97.00	2.00	2	VO18203599 - Finalized	10/09/2018	0.001	0.050	3.80	120.50	9.37	1,600.0	0.006	258.00	0.13	387.00	113.00
557548	97.00	99.00	2.00	2	VO18203599 - Finalized	10/09/2018	0.001	0.050	4.40	149.00	9.52	1,380.0	0.008	332.00	0.21	157.00	141.00
557550	99.00	101.00	2.00	2	VO18203599 - Finalized	10/09/2018	0.001	0.030	2.90	110.50	9.71	1,540.0	0.010	355.00	0.18	141.00	121.00
557551	101.00	103.00	2.00	2	VO18203599 - Finalized	10/09/2018	0.001	0.090	4.00	179.50	9.11	1,440.0	0.003	324.00	0.70	132.50	134.00
557552	103.00	105.00	2.00	2	VO18203599 - Finalized	10/09/2018	0.001	0.100	2.70	167.50	8.86	1,340.0	0.008	312.00	0.25	117.00	156.00
557553	105.00	107.00	2.00	2	VO18203599 - Finalized	10/09/2018	0.001	0.060	20.00	172.50	8.98	1,320.0	0.015	314.00	0.36	109.00	175.00
557554	107.00	108.60	1.60	2	VO18203599 - Finalized	10/09/2018	0.004	0.420	34.70	166.50	13.55	1,420.0	0.033	249.00	2.63	126.50	302.00
557555	108.60	110.10	1.50	2	VO18203599 - Finalized	10/09/2018	0.025	0.860	41.30	242.00	18.15	1,060.0	0.268	249.00	16.55	128.50	1 850.00
557557	110.10	112.00	1.90	2	VO18203599 - Finalized	10/09/2018	0.001	0.310	12.40	150.50	7.79	1,260.0	0.017	335.00	0.99	102.50	203.00
557558	112.00	114.00	2.00	2	VO18203599 - Finalized	10/09/2018	0.001	0.310	23.70	174.50	9.45	1,350.0	0.081	242.00	3.27	99.40	280.00
557559	114.00	115.40	1.40	2	VO18203599 - Finalized	10/09/2018	0.001	0.550	37.80	170.50	10.60	1,660.0	0.024	268.00	4.62	114.50	124.00
557560	115.40	117.00	1.60	2	VO18203599 - Finalized	10/09/2018	0.016	1.150	43.60	211.00	16.65	264.0	0.290	229.00	18.75	171.00	663.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557561	117.00	119.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.004	0.480	28.00	140.00	10.70	451.0	0.169	173.00	7.32	123.00	633.00
557562	119.00	121.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.011	1.050	15.30	205.00	13.75	624.0	0.207	312.00	24.10	163.00	731.00
557563	121.00	123.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.032	1.840	45.10	277.00	19.75	1,320.0	0.547	547.00	59.20	236.00	1 680.00
557564	123.00	125.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.007	0.750	27.60	135.00	11.15	446.0	0.250	262.00	16.75	127.00	720.00
557565	125.00	127.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.005	0.630	44.20	148.50	11.05	470.0	0.285	186.00	13.40	119.50	708.00
557566	127.00	129.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.004	0.450	27.70	151.00	9.94	329.0	0.174	138.00	8.97	127.50	465.00
557567	129.00	131.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.037	1.280	61.70	164.50	12.95	581.0	0.478	370.00	35.30	172.50	1 110.00
557568	131.00	133.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.021	1.070	60.20	149.00	11.90	550.0	0.445	307.00	31.20	158.00	970.00
557570	133.00	135.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.007	0.760	44.50	92.70	9.70	399.0	0.329	218.00	15.20	109.00	638.00
557571	135.00	137.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.001	0.640	29.60	100.50	8.68	566.0	0.191	228.00	11.80	98.00	564.00
557572	137.00	139.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.024	2.350	41.40	244.00	14.95	627.0	0.585	678.00	79.40	238.00	1 440.00
557573	139.00	141.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.012	1.060	55.40	111.00	11.20	391.0	0.378	268.00	22.70	133.50	750.00
557574	141.00	143.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.017	0.570	26.50	187.00	9.97	479.0	0.168	147.00	10.20	156.50	540.00
557575	143.00	145.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.013	1.700	18.20	174.50	10.40	369.0	0.474	498.00	51.60	175.50	1 500.00
557577	145.00	147.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.023	3.420	13.20	237.00	14.30	339.0	0.734	1 280.00	136.00	259.00	2 350.00
557578	147.00	149.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.008	1.090	39.50	107.00	9.99	376.0	0.352	204.00	13.90	131.50	585.00
557579	149.00	151.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.011	1.230	47.10	88.80	8.97	155.0	0.389	175.00	10.95	114.00	523.00
557580	151.00	153.00	2.00	2	VO18203604 - Finalized	11/09/2018	0.038	1.940	112.50	108.50	13.60	486.0	0.909	264.00	21.50	147.50	1 230.00
557581	153.00	155.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.055	2.170	172.00	105.50	14.30	453.0	0.966	361.00	41.80	157.50	902.00
557582	155.00	157.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.048	5.890	141.50	244.00	14.85	1,090.0	1.275	657.00	64.40	263.00	2 510.00
557583	157.00	159.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.046	2.800	52.60	484.00	13.30	1,870.0	1.080	1 100.00	121.50	285.00	3 740.00
557584	159.00	161.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.027	2.330	88.40	583.00	13.40	2,510.0	0.919	712.00	85.40	224.00	2 590.00
557585	161.00	162.55	1.55	2	VO18214805 - Finalized	16/09/2018	0.043	2.980	52.20	621.00	13.80	2,010.0	1.525	1 160.00	120.50	249.00	4 300.00
557586	162.55	164.10	1.55	2	VO18214805 - Finalized	16/09/2018	0.066	4.290	12.40	923.00	20.70	995.0	1.825	1 420.00	169.00	448.00	5 570.00
557587	164.10	166.00	1.90	2	VO18214805 - Finalized	16/09/2018	0.026	2.410	45.90	513.00	16.90	2,850.0	1.035	681.00	92.00	270.00	2 960.00
557588	166.00	168.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.041	3.150	111.50	536.00	18.00	3,970.0	0.957	876.00	118.50	258.00	2 290.00
557590	168.00	170.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.045	2.830	120.50	501.00	18.40	3,860.0	0.944	976.00	116.00	252.00	2 370.00
557591	170.00	172.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.038	2.490	255.00	333.00	15.25	4,140.0	0.947	1 080.00	129.00	209.00	2 270.00
557592	172.00	174.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.047	2.760	152.00	482.00	17.80	2,950.0	0.929	970.00	117.00	276.00	2 420.00
557593	174.00	176.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.065	2.520	143.50	347.00	17.15	943.0	1.665	1 000.00	115.00	284.00	3 130.00
557594	176.00	178.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.071	3.000	173.00	302.00	15.65	1,190.0	1.780	1 080.00	120.50	288.00	2 850.00
557595	178.00	180.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.058	2.750	116.00	240.00	12.15	1,140.0	1.600	1 320.00	155.50	289.00	2 950.00
557597	180.00	182.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.063	2.570	246.00	157.00	14.25	757.0	2.040	1 190.00	135.50	299.00	2 300.00
557598	182.00	184.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.055	1.930	195.00	322.00	14.40	2,530.0	0.871	874.00	107.00	273.00	1 460.00
557599	184.00	186.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.050	3.050	47.80	387.00	14.30	1,930.0	0.827	1 120.00	146.00	349.00	2 110.00
557600	186.00	188.00	2.00	2	VO18214805 - Finalized	16/09/2018	0.053	2.930	79.80	366.00	14.15	1,410.0	1.285	1 140.00	137.50	300.00	2 680.00
557601	188.00	190.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.021	1.180	75.00	326.00	13.75	773.0	0.555	248.00	15.80	208.00	864.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557602	190.00	192.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.043	1.460	91.20	206.00	12.70	310.0	0.849	222.00	18.90	172.00	1 380.00
557603	192.00	194.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.011	0.880	56.20	201.00	9.47	412.0	0.390	182.00	13.65	124.00	740.00
557604	194.00	196.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.030	1.950	99.10	308.00	10.45	773.0	1.015	882.00	105.50	225.00	2 040.00
557605	196.00	198.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.044	2.340	113.00	363.00	11.50	890.0	1.245	1 370.00	153.50	276.00	3 250.00
557606	198.00	200.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.040	2.230	77.70	589.00	14.20	1,900.0	0.651	1 100.00	136.00	349.00	1 660.00
557607	200.00	202.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.043	1.990	163.50	433.00	14.25	2,000.0	1.170	1 060.00	103.00	319.00	2 140.00
557608	202.00	204.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.062	2.800	289.00	231.00	17.10	736.0	1.745	1 010.00	112.00	299.00	2 160.00
557610	204.00	206.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.055	2.320	146.50	458.00	14.25	1,650.0	1.085	1 280.00	144.00	335.00	2 490.00
557611	206.00	208.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.039	1.760	235.00	200.00	12.80	2,050.0	1.290	1 080.00	111.50	239.00	1 900.00
557612	208.00	210.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.049	2.090	214.00	276.00	13.80	1,750.0	1.305	1 240.00	127.50	320.00	2 150.00
557613	210.00	212.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.087	2.460	266.00	253.00	13.90	801.0	1.920	1 860.00	220.00	418.00	3 270.00
557614	212.00	214.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.057	2.360	343.00	178.00	15.70	1,420.0	1.960	1 340.00	142.00	381.00	2 880.00
557615	214.00	216.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.040	2.430	190.50	365.00	14.80	1,300.0	1.275	1 320.00	160.00	347.00	2 400.00
557617	216.00	218.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.051	2.280	171.50	304.00	13.30	844.0	1.295	1 390.00	147.00	272.00	2 600.00
557618	218.00	220.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.053	2.380	211.00	210.00	15.65	1,080.0	1.440	1 080.00	128.00	292.00	2 320.00
557619	220.00	222.00	2.00	2	VO18211374 - Finalized	16/09/2018	0.015	1.090	83.70	160.50	11.05	500.0	0.548	382.00	38.80	167.00	725.00
557620	222.00	223.50	1.50	2	VO18211374 - Finalized	16/09/2018	0.026	1.560	107.00	195.50	13.95	630.0	0.788	468.00	44.00	199.50	1 320.00
557621	223.50	224.80	1.30	2	VO18211363 - Finalized	16/09/2018	0.023	1.400	102.00	134.00	11.65	611.0	0.853	380.00	33.60	175.00	1 500.00
557622	224.80	226.50	1.70	2	VO18211363 - Finalized	16/09/2018	0.003	0.420	27.20	113.00	9.78	2,070.0	0.078	217.00	5.70	55.60	237.00
557623	226.50	228.50	2.00	2	VO18211363 - Finalized	16/09/2018	0.003	0.540	50.60	117.00	16.10	2,240.0	0.059	185.00	4.05	41.00	219.00
557624	228.50	230.00	1.50	2	VO18211363 - Finalized	16/09/2018	0.016	1.580	30.60	337.00	9.56	917.0	1.185	873.00	83.10	141.50	3 050.00
557625	230.00	231.80	1.80	2	VO18211363 - Finalized	16/09/2018	0.025	2.600	38.80	384.00	15.10	1,590.0	0.877	1 060.00	127.00	240.00	2 200.00
557626	231.80	233.00	1.20	2	VO18211363 - Finalized	16/09/2018	0.010	1.530	71.90	464.00	21.30	3,820.0	0.102	111.00	2.63	212.00	128.00
557627	233.00	235.00	2.00	2	VO18211363 - Finalized	16/09/2018	0.007	1.370	327.00	435.00	17.85	2,650.0	0.068	182.00	4.56	157.00	123.00
557628	235.00	237.00	2.00	2	VO18211363 - Finalized	16/09/2018	0.016	1.330	33.10	345.00	9.50	991.0	0.748	1 060.00	103.00	197.50	2 610.00
557630	237.00	239.00	2.00	2	VO18211363 - Finalized	16/09/2018	0.028	1.730	62.90	467.00	14.30	1,460.0	0.822	1 540.00	191.00	395.00	2 660.00
557631	239.00	241.00	2.00	2	VO18211363 - Finalized	16/09/2018	0.026	1.500	115.50	271.00	11.40	497.0	1.105	1 560.00	202.00	321.00	2 560.00
557632	241.00	243.00	2.00	2	VO18211363 - Finalized	16/09/2018	0.027	1.390	122.00	257.00	14.00	933.0	1.065	854.00	118.00	253.00	1 560.00
557633	243.00	245.00	2.00	2	VO18211363 - Finalized	16/09/2018	0.030	1.420	168.50	302.00	16.65	293.0	1.330	379.00	41.60	182.50	1 390.00
557634	245.00	247.00	2.00	2	VO18211363 - Finalized	16/09/2018	0.041	1.660	216.00	194.00	17.30	222.0	1.490	360.00	37.30	188.50	1 530.00
557635	247.00	249.00	2.00	2	VO18211363 - Finalized	16/09/2018	0.034	1.310	195.00	126.50	15.80	440.0	1.155	335.00	35.80	185.00	1 400.00
557637	249.00	251.00	2.00	2	VO18211363 - Finalized	16/09/2018	0.052	1.970	165.50	178.00	14.80	423.0	1.165	856.00	115.50	237.00	1 640.00
557638	251.00	253.00	2.00	2	VO18211363 - Finalized	16/09/2018	0.050	1.940	223.00	104.00	17.65	192.0	1.430	425.00	49.30	185.50	1 570.00
557639	253.00	255.00	2.00	2	VO18211363 - Finalized	16/09/2018	0.009	0.870	78.40	98.40	10.85	281.0	0.524	203.00	16.80	108.00	923.00
557640	255.00	257.00	2.00	2	VO18211363 - Finalized	16/09/2018	0.017	0.950	84.80	102.00	10.85	104.0	0.494	202.00	16.50	113.50	609.00
557641	257.00	259.00	2.00	2	VO18211367 - Finalized	16/09/2018	0.011	1.150	61.30	127.50	11.10	142.0	0.333	169.00	12.20	127.00	546.00
557642	259.00	261.00	2.00	2	VO18211367 - Finalized	16/09/2018	0.044	1.050	78.40	152.50	11.90	131.0	0.455	202.00	17.15	138.50	685.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557643	261.00	263.00	2.00	2	VO18211367 - Finalized	16/09/2018	0.023	1.050	84.20	122.00	11.00	330.0	0.413	210.00	19.80	149.50	683.00
557644	263.00	265.00	2.00	2	VO18211367 - Finalized	16/09/2018	0.068	1.670	120.50	150.00	14.25	656.0	0.737	761.00	96.30	257.00	1 480.00
557645	265.00	267.00	2.00	2	VO18211367 - Finalized	16/09/2018	0.064	1.990	160.00	153.50	17.25	407.0	0.670	613.00	68.50	254.00	693.00
557646	267.00	269.00	2.00	2	VO18211367 - Finalized	16/09/2018	0.059	2.830	173.50	95.30	16.35	107.0	1.010	495.00	64.20	161.00	1 010.00
557647	269.00	270.00	1.00	2	VO18211367 - Finalized	16/09/2018	0.057	2.370	92.70	232.00	18.25	143.0	0.779	438.00	53.30	199.00	1 790.00
557648	270.00	271.20	1.20	2	VO18211367 - Finalized	16/09/2018	0.005	0.570	11.00	80.70	10.35	1,210.0	0.031	181.00	24.40	70.50	44.00
555467	271.20	272.00	0.80	2	VO18211359 - Finalized	13/09/2018	0.001	0.430	3.10	42.70	11.40	3,550.0	0.018	25.00	3.20	35.60	33.00
555468	272.00	273.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.040	0.70	4.20	14.95	2,670.0	0.006	4.00	0.24	6.50	10.00
555469	273.00	274.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.030	1.60	1.80	14.25	2,140.0	0.006	4.00	0.18	6.70	7.00
555470	274.00	275.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.020	0.80	2.30	15.05	2,680.0	0.005	10.00	0.42	12.30	11.00
555471	275.00	276.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.020	0.80	1.30	12.75	2,220.0	0.006	7.00	0.39	4.70	8.00
555472	276.00	277.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.020	1.40	1.00	14.25	2,540.0	0.003	9.00	0.29	3.90	7.00
555473	277.00	278.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.020	2.70	2.30	17.85	5,820.0	0.007	16.00	0.53	6.60	8.00
555474	278.00	279.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.060	16.30	4.60	19.90	11,550.0	0.005	53.00	0.74	8.50	14.00
555475	279.00	280.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.040	2.30	6.00	15.55	9,080.0	0.003	38.00	0.39	6.80	12.00
555476	280.00	281.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.030	2.30	11.70	21.60	15,200.0	0.003	89.00	0.56	14.60	18.00
555477	281.00	282.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.040	3.10	7.40	16.35	14,150.0	0.007	64.00	0.50	9.60	13.00
555478	282.00	283.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.050	3.00	10.20	19.25	16,700.0	0.005	65.00	0.73	13.60	14.00
555480	283.00	284.00	1.00	2	VO18211359 - Finalized	13/09/2018	0.001	0.030	0.60	6.60	19.85	26,800.0	0.003	57.00	0.68	10.80	16.00
555481	284.00	284.90	0.90	2	VO18211361 - Finalized	13/09/2018	0.001	0.040	3.20	5.10	14.80	25,100.0	0.003	40.00	0.51	8.60	14.00
557650	284.90	287.00	2.10	2	VO18211367 - Finalized	16/09/2018	0.004	0.260	3.10	28.60	10.45	2,550.0	0.003	136.00	1.91	41.20	116.00
557651	287.00	289.00	2.00	2	VO18211367 - Finalized	16/09/2018	0.002	0.330	35.20	53.00	13.00	2,720.0	0.003	189.00	6.74	61.20	149.00
557652	289.00	290.00	1.00	2	VO18211367 - Finalized	16/09/2018	0.001	0.040	2.80	5.90	16.60	22,800.0	0.003	61.00	0.39	10.40	30.00
557653	290.00	291.00	1.00	2	VO18211367 - Finalized	16/09/2018	0.001	0.030	3.70	5.40	16.95	19,050.0	0.003	47.00	0.49	11.10	14.00
557654	291.00	292.00	1.00	2	VO18211367 - Finalized	16/09/2018	0.001	0.060	291.00	6.40	15.90	15,900.0	0.003	47.00	0.46	11.80	10.00
557655	292.00	293.00	1.00	2	VO18211367 - Finalized	16/09/2018	0.001	0.020	1.70	8.60	17.70	16,300.0	0.003	67.00	0.38	12.70	14.00
557657	293.00	294.00	1.00	2	VO18211367 - Finalized	16/09/2018	0.001	0.020	36.10	11.20	17.10	13,950.0	0.008	67.00	0.38	13.10	11.00
557658	294.00	295.00	1.00	2	VO18211367 - Finalized	16/09/2018	0.001	0.040	2.60	12.90	20.80	18,250.0	0.003	94.00	0.54	17.60	15.00
557659	295.00	296.00	1.00	2	VO18211367 - Finalized	16/09/2018	0.001	0.030	1.30	7.90	16.55	17,250.0	0.003	59.00	0.46	10.70	11.00
557660	296.00	297.00	1.00	2	VO18211367 - Finalized	16/09/2018	0.001	0.030	12.30	15.00	21.80	19,150.0	0.003	121.00	0.55	19.60	20.00
557661	297.00	298.00	1.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.030	4.60	10.40	21.90	15,750.0	0.005	66.00	0.75	12.80	13.00
557662	298.00	299.00	1.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.020	2.50	9.70	25.10	17,350.0	0.003	65.00	0.68	12.40	13.00
557663	299.00	300.00	1.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.010	6.80	7.10	17.90	10,450.0	0.003	49.00	0.43	9.00	9.00
557664	300.00	301.00	1.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.010	3.10	6.80	19.80	11,750.0	0.003	44.00	0.42	9.10	9.00
557665	301.00	302.00	1.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.010	0.70	3.50	15.05	9,610.0	0.003	34.00	0.39	5.30	7.00
557666	302.00	303.00	1.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.020	2.90	10.10	22.60	13,050.0	0.003	69.00	0.71	11.80	11.00
557667	303.00	304.00	1.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.020	3.30	7.90	20.60	13,950.0	0.003	54.00	0.62	11.60	11.00



Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557668	304.00	305.00	1.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.020	4.40	9.70	17.45	14,550.0	0.003	53.00	0.42	11.90	11.00
557670	305.00	306.00	1.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.020	3.50	8.80	18.40	16,450.0	0.003	81.00	0.57	14.20	15.00
557671	306.00	307.00	1.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.030	2.50	14.40	23.60	19,600.0	0.005	131.00	0.75	19.50	20.00
557672	307.00	308.00	1.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.030	3.40	12.20	20.90	19,100.0	0.003	95.00	0.66	16.50	15.00
557673	308.00	309.00	1.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.030	0.30	23.30	26.10	18,250.0	0.003	107.00	0.55	18.00	17.00
557674	309.00	310.50	1.50	2	VO18214819 - Finalized	17/09/2018	0.001	0.020	2.70	9.90	18.90	16,200.0	0.006	71.00	0.51	14.00	13.00
557675	310.50	311.50	1.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.040	0.50	11.90	17.90	21,000.0	0.003	63.00	0.72	12.50	32.00
557677	311.50	313.00	1.50	2	VO18214819 - Finalized	17/09/2018	0.003	0.360	5.20	46.10	11.20	5,000.0	0.011	282.00	17.55	65.50	139.00
557678	313.00	315.00	2.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.490	9.60	35.10	8.24	11,650.0	0.016	157.00	1.27	48.50	116.00
557679	315.00	317.00	2.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.250	6.90	37.50	8.10	8,510.0	0.040	137.00	1.44	50.40	188.00
557680	317.00	319.00	2.00	2	VO18214819 - Finalized	17/09/2018	0.001	0.170	18.10	32.90	8.19	13,600.0	0.027	133.00	1.11	47.30	174.00
557681	319.00	320.00	1.00	2	VO18211370 - Finalized	16/09/2018	0.002	0.190	4.20	38.70	9.44	3,210.0	0.018	206.00	5.37	51.70	152.00
555482	320.00	321.00	1.00	2	VO18211361 - Finalized	13/09/2018	0.001	0.040	2.40	9.30	20.20	23,400.0	0.003	83.00	0.58	14.70	24.00
555483	321.00	322.00	1.00	2	VO18211361 - Finalized	13/09/2018	0.001	0.030	1.00	9.70	20.10	18,950.0	0.003	81.00	0.63	13.80	14.00
555484	322.00	323.00	1.00	2	VO18211361 - Finalized	13/09/2018	0.001	0.020	6.80	9.20	21.80	14,500.0	0.010	56.00	0.39	10.80	11.00
555485	323.00	324.00	1.00	2	VO18211361 - Finalized	13/09/2018	0.001	0.020	8.30	6.90	16.50	10,800.0	0.003	52.00	0.48	9.90	11.00
555487	324.00	325.00	1.00	2	VO18211361 - Finalized	13/09/2018	0.001	0.040	1.70	8.60	19.70	11,400.0	0.003	52.00	0.58	9.70	11.00
555488	325.00	326.00	1.00	2	VO18211361 - Finalized	13/09/2018	0.001	0.020	1.90	4.70	20.00	11,750.0	0.003	53.00	0.58	8.70	10.00
555489	326.00	327.00	1.00	2	VO18211361 - Finalized	13/09/2018	0.001	0.010	4.00	4.30	18.80	9,080.0	0.003	33.00	0.73	9.30	10.00
555490	327.00	328.00	1.00	2	VO18211361 - Finalized	13/09/2018	0.001	0.010	0.20	2.60	15.40	3,020.0	0.014	9.00	0.24	5.20	11.00
555491	328.00	329.30	1.30	2	VO18211361 - Finalized	13/09/2018	0.001	0.060	11.60	6.70	14.30	3,100.0	0.012	12.00	0.72	11.10	18.00
555492	329.30	330.50	1.20	2	VO18211361 - Finalized	13/09/2018	0.004	0.280	8.80	49.40	9.04	2,150.0	0.081	77.00	10.10	36.00	127.00
555493	330.50	332.30	1.80	2	VO18211361 - Finalized	13/09/2018	0.003	0.300	2.00	43.10	8.54	1,340.0	0.176	125.00	14.05	48.00	436.00
555494	332.30	333.50	1.20	2	VO18211361 - Finalized	13/09/2018	0.001	0.080	13.20	15.00	15.55	2,970.0	0.019	16.00	0.61	19.60	37.00
555495	333.50	335.00	1.50	2	VO18211361 - Finalized	13/09/2018	0.001	0.070	6.70	1.80	13.10	2,130.0	0.005	4.00	0.38	4.10	5.00
555496	335.00	336.00	1.00	2	VO18211361 - Finalized	13/09/2018	0.001	0.010	39.70	5.60	8.77	2,740.0	0.025	41.00	2.23	38.60	9.00
555497	336.00	337.00	1.00	2	VO18211361 - Finalized	13/09/2018	0.001	0.030	0.70	3.70	15.00	4,830.0	0.009	13.00	0.51	6.90	9.00
555498	337.00	338.00	1.00	2	VO18211361 - Finalized	13/09/2018	0.001	0.030	2.10	4.60	21.90	10,750.0	0.005	26.00	0.73	10.60	7.00
555500	338.00	339.00	1.00	2	VO18211361 - Finalized	13/09/2018	0.001	0.060	3.90	10.70	21.70	13,250.0	0.003	57.00	0.74	12.30	20.00
555501	339.00	340.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.002	0.060	7.50	7.30	14.80	10,300.0	0.005	43.00	0.70	10.50	14.00
555502	340.00	341.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.001	0.030	3.00	10.30	20.50	13,550.0	0.003	64.00	0.48	12.00	21.00
555503	341.00	342.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.001	0.050	4.60	13.10	19.70	16,550.0	0.003	86.00	0.64	16.80	17.00
557682	342.00	343.00	1.00	2	VO18211370 - Finalized	16/09/2018	0.001	0.020	1.30	6.90	17.85	13,600.0	0.003	64.00	0.51	10.20	14.00
557683	343.00	344.00	1.00	2	VO18211370 - Finalized	16/09/2018	0.001	0.040	1.50	11.10	16.70	14,300.0	0.007	59.00	0.45	11.80	29.00
557684	344.00	345.00	1.00	2	VO18211370 - Finalized	16/09/2018	0.001	0.100	0.90	7.60	17.80	19,950.0	0.003	68.00	0.62	12.60	22.00
557685	345.00	346.00	1.00	2	VO18211370 - Finalized	16/09/2018	0.001	0.120	4.90	4.40	19.05	15,750.0	0.003	81.00	0.60	16.70	28.00
557686	346.00	347.00	1.00	2	VO18211370 - Finalized	16/09/2018	0.001	0.020	1.60	8.40	16.75	13,050.0	0.003	49.00	0.50	9.90	17.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557687	347.00	348.50	1.50	2	VO18211370 - Finalized	16/09/2018	0.001	0.090	11.00	11.60	17.90	18,950.0	0.003	73.00	0.61	14.30	23.00
557688	348.50	350.00	1.50	2	VO18211370 - Finalized	16/09/2018	0.003	0.230	12.10	49.10	11.30	1,120.0	0.003	175.00	3.70	45.70	213.00
557690	350.00	352.00	2.00	2	VO18211370 - Finalized	16/09/2018	0.003	0.210	4.30	52.30	7.65	322.0	0.003	168.00	1.22	48.90	228.00
557691	352.00	354.00	2.00	2	VO18211370 - Finalized	16/09/2018	0.002	0.230	2.80	47.50	7.37	220.0	0.003	149.00	0.99	48.30	270.00
557692	354.00	356.00	2.00	2	VO18211370 - Finalized	16/09/2018	0.002	0.220	2.10	41.80	7.68	263.0	0.003	168.00	1.22	46.30	272.00
557693	356.00	358.00	2.00	2	VO18211370 - Finalized	16/09/2018	0.003	0.380	1.00	48.90	6.88	205.0	0.008	176.00	1.37	51.40	243.00
557694	358.00	360.00	2.00	2	VO18211370 - Finalized	16/09/2018	0.002	0.210	3.40	47.10	7.65	504.0	0.007	119.00	0.89	52.00	232.00
557695	360.00	362.00	2.00	2	VO18211370 - Finalized	16/09/2018	0.003	0.260	3.60	50.70	7.16	867.0	0.011	139.00	1.02	52.00	300.00
557697	362.00	363.40	1.40	2	VO18211370 - Finalized	16/09/2018	0.002	0.250	4.90	48.10	8.73	961.0	0.003	176.00	1.25	49.10	231.00
557698	363.40	365.00	1.60	2	VO18211370 - Finalized	16/09/2018	0.001	0.030	3.20	7.20	17.05	15,700.0	0.003	62.00	0.50	10.60	21.00
557699	365.00	366.00	1.00	2	VO18211370 - Finalized	16/09/2018	0.001	0.020	20.10	7.40	17.30	14,050.0	0.003	67.00	0.51	11.20	12.00
557700	366.00	367.00	1.00	2	VO18211370 - Finalized	16/09/2018	0.001	0.050	5.60	10.00	18.55	17,250.0	0.008	83.00	0.68	15.00	33.00
557701	367.00	368.00	1.00	2	VO18211339 - Finalized	16/09/2018	0.001	0.110	12.10	10.00	21.00	15,050.0	0.003	74.00	0.70	12.30	13.00
557702	368.00	369.00	1.00	2	VO18211339 - Finalized	16/09/2018	0.001	0.080	10.10	10.60	19.35	17,100.0	0.003	88.00	0.59	13.60	16.00
557703	369.00	370.00	1.00	2	VO18211339 - Finalized	16/09/2018	0.001	0.030	3.20	7.90	20.70	13,100.0	0.003	56.00	0.49	9.40	12.00
557704	370.00	371.00	1.00	2	VO18211339 - Finalized	16/09/2018	0.001	0.030	1.60	6.20	21.40	11,900.0	0.003	49.00	0.73	8.50	11.00
557705	371.00	372.00	1.00	2	VO18211339 - Finalized	16/09/2018	0.001	0.040	4.40	6.30	19.30	13,600.0	0.003	62.00	0.85	10.60	14.00
557706	372.00	373.00	1.00	2	VO18211339 - Finalized	16/09/2018	0.001	0.040	2.20	16.20	21.00	17,100.0	0.003	87.00	0.63	14.30	29.00
557707	373.00	374.00	1.00	2	VO18211339 - Finalized	16/09/2018	0.001	0.030	6.20	7.40	20.20	12,300.0	0.003	55.00	0.43	9.20	10.00
557708	374.00	375.00	1.00	2	VO18211339 - Finalized	16/09/2018	0.001	0.020	2.40	6.50	21.50	12,100.0	0.003	53.00	0.74	8.90	12.00
557710	375.00	376.00	1.00	2	VO18211339 - Finalized	16/09/2018	0.001	0.010	7.60	4.00	21.10	10,450.0	0.003	37.00	1.03	12.10	24.00
557711	376.00	377.00	1.00	2	VO18211339 - Finalized	16/09/2018	0.001	0.010	1.20	4.80	22.50	10,450.0	0.003	38.00	1.16	11.50	10.00
557712	377.00	378.00	1.00	2	VO18211339 - Finalized	16/09/2018	0.001	0.010	1.80	1.80	14.45	6,100.0	0.003	16.00	0.30	5.30	5.00
557713	378.00	379.00	1.00	2	VO18211339 - Finalized	16/09/2018	0.001	0.020	2.50	1.60	13.05	5,220.0	0.003	16.00	0.33	7.30	4.00
557714	379.00	380.00	1.00	2	VO18211339 - Finalized	16/09/2018	0.004	0.190	29.20	89.00	16.75	5,220.0	0.088	104.00	3.78	70.30	607.00




## Detailed Log Report

### Hole Number OSK-KAN-18-021

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-60.00 <b>Collar Az:</b> 250.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 363 375.00	<b>Length:</b>	262.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	August 19, 2018	<b>East:</b>	486 880.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	August 23, 2018	<b>Elev:</b>	95.00	<b>Casing Length:</b>	3.00 <b>Pulled:</b> N
<b>Contractor:</b>	Forage Nordic/Forage Spektra			<b>Capped:</b>	N <b>Making Water:</b> N
<b>Logger 1:</b>	Cynthia Lee			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	High mag and high conductive anomaly at depth			<b>Claims Title:</b>	2391195 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	15.00	<b>OVB, Overburden</b>	557715	14.00	16.00	2.00	
<b>Comments:</b>							
15.00	28.50	<b>S6, Mudrock</b>	557717	16.00	18.00	2.00	S6 GP; Qtz-1; 5% Py SUB BD 5% Po DI BD; 2% I1N FC CB
			557718	18.00	20.00	2.00	S6 GP; Qtz-1; 5% Py SUB BD 5% Po DI BD; 2% I1N FC CB
			557719	20.00	22.00	2.00	S6 GP; Qtz-1; 5% Py SUB BD 5% Po DI BD; 2% I1N FC CB
			557720	22.00	24.00	2.00	S6 GP; Qtz-1; 5% Py SUB BD 5% Po DI BD; 2% I1N FC CB
			557721	24.00	26.00	2.00	S6 GP; Qtz-1; 5% Py SUB BD 5% Po DI BD; 2% I1N FC CB
			557722	26.00	27.50	1.50	S6 GP; Qtz-1; 5% Py SUB BD 5% Po DI BD; 2% I1N FC CB
			557723	27.50	28.50	1.00	S6 GP; Qtz-1; 5% Py SUB BD 5% Po DI BD; 2% I1N FC CB
28.50	36.30	<b>I3A, Gabbro</b>	557724	28.50	30.50	2.00	I3A Chl-Ank; 5% Py SUB CTC; 1% I1N QZ CC
			557725	30.50	32.50	2.00	I3A Chl-Ank; Carb-2 CC-2 Chl-2; 1% Py DI PER; 1% I1N QZ CC
			557726	32.50	34.50	2.00	I3A Chl-Ank; Carb-2 CC-2 Chl-2; 1% Py DI PER; 1% I1N QZ CC
			557727	34.50	36.30	1.80	I3A Chl-Ank; Carb-2 CC-2 Chl-2; 1% Py DI PER; 1% I1N QZ CC
36.30	40.10	<b>S6, Mudrock</b>	557728	36.30	38.30	2.00	S6 GP; Qtz-1; 4% Py SUB BD 1% Py NO VN 4% Po IG BD; 0.5% I1N QZ CC
			557730	38.30	40.10	1.80	S6 GP; Qtz-1; 4% Py SUB BD 1% Py NO VN 4% Po IG BD; 0.5% I1N QZ CC
<b>Comments:</b>							

  
 Cynthia Lee, Ing. Jr. OIQ : 5082751

From	To	Lithology	Sample	From	To	Length	Comments
40.10	44.20	I3A, Gabbro	557731	40.10	42.10	2.00	; 7% Po IG BD 2% Py SUB BD; 2% I1N QZ CC
			557732	42.10	44.20	2.10	I3A Chl-Ank; Qtz-1 CC-1 Carb-1; 0.5% Po DI PER; 2% I1N QZ CC
<b>Comments:</b>							
44.20	46.40	S6, Mudrock	557733	44.20	46.40	2.20	S6 GP; Qtz-1 CC-1; 4% Po IG BD 4% Py SUB BD 5% Po DI BD; 0.5% I1N QZ CB
<b>Comments:</b>							
46.40	78.00	I3A, Gabbro	557734	46.40	48.00	1.60	; 5% Po DI PER; 0.1% I1N QZ CC
			557735	48.00	50.00	2.00	I3A Chl-Ank; Qtz-1 CC-1 Ser-2 Ank-2; 1% Po AL VN 0.5% Py SUB PER; 5% I1N QZ CC
			557737	50.00	52.00	2.00	I3A Chl-Ank; Qtz-1 CC-1 Ser-2 Ank-2; 1% Po AL VN 0.5% Py SUB PER; 5% I1N QZ CC
			557738	52.00	54.00	2.00	I3A Chl-Ank; Qtz-1 CC-1 Ser-2 Ank-2; 1% Po AL VN 0.5% Py SUB PER; 5% I1N QZ CC
			557739	54.00	56.00	2.00	I3A Chl-Ank; Qtz-1 CC-1 Ser-2 Ank-2; 1% Po AL VN 0.5% Py SUB PER; 5% I1N QZ CC
			557740	56.00	58.00	2.00	
			557741	58.00	60.00	2.00	I3A; Chl-3 Qtz-1 CC-1; 0.5% Po DI PER 0.1% Py SUB PER; 3% I1N QZ CB
			557742	60.00	62.00	2.00	I3A; Chl-3 Qtz-1 CC-1; 0.5% Po DI PER 0.1% Py SUB PER; 3% I1N QZ CB
			557743	62.00	64.00	2.00	I3A; Chl-3 Qtz-1 CC-1; 0.5% Po DI PER 0.1% Py SUB PER; 3% I1N QZ CB
			557744	64.00	66.00	2.00	I3A; Chl-3 Qtz-1 CC-1; 0.5% Po DI PER 0.1% Py SUB PER; 3% I1N QZ CB
			557745	66.00	68.00	2.00	
			557746	68.00	70.00	2.00	I3A QZ; Sil-1 Qtz-1 CC-1 Ser-2; 3% Po DI PER 1% Po AL VN; 3% I1N QZ CB
			557747	70.00	72.00	2.00	I3A QZ; Sil-1 Qtz-1 CC-1 Ser-2; 3% Po DI PER 1% Po AL VN; 3% I1N QZ CB
557748	72.00	74.00	2.00	; 8% Po IG BD			
557750	74.00	76.00	2.00	I3A QZ; Sil-1 Qtz-1 CC-1 Ser-2; 3% Po DI PER 1% Po AL VN; 3% I1N QZ CB			
557751	76.00	78.00	2.00	I3A QZ; Sil-1 Qtz-1 CC-1 Ser-2; 3% Po DI PER 1% Po AL VN; 3% I1N QZ CB			

From	To	Lithology	Sample	From	To	Length	Comments
78.00	158.70	S6, Mudrock	557752	78.00	80.00	2.00	S6 GP; Qtz-1 Carb-1 Ank-1; 8% Po IG BD 3% Py SUB BD 1% Po AL VN 1% Py AL VN 0.5% Sp AL VN; 5% I1N QZ GP
<b>Comments:</b>			557753	80.00	82.00	2.00	S6 GP; Qtz-1 Carb-1 Ank-1; 8% Po IG BD 3% Py SUB BD 1% Po AL VN 1% Py AL VN 0.5% Sp AL VN; 5% I1N QZ GP
			557754	82.00	84.00	2.00	S6 GP; Qtz-1 Carb-1 Ank-1; 8% Po IG BD 3% Py SUB BD 1% Po AL VN 1% Py AL VN 0.5% Sp AL VN; 5% I1N QZ GP
			557755	84.00	86.00	2.00	S6 GP; Qtz-1 Carb-1 Ank-1; 8% Po IG BD 3% Py SUB BD 1% Po AL VN 1% Py AL VN 0.5% Sp AL VN; 5% I1N QZ GP
			557757	86.00	88.00	2.00	S6 GP; Qtz-1 Carb-1 Ank-1; 8% Po IG BD 3% Py SUB BD 1% Po AL VN 1% Py AL VN 0.5% Sp AL VN; 5% I1N QZ GP
			557758	88.00	90.00	2.00	S6 GP; Qtz-1 Carb-1 Ank-1; 8% Po IG BD 3% Py SUB BD 1% Po AL VN 1% Py AL VN 0.5% Sp AL VN; 5% I1N QZ GP
			557759	90.00	92.00	2.00	S6 GP; Qtz-1 Carb-1 Ank-1; 8% Po IG BD 3% Py SUB BD 1% Po AL VN 1% Py AL VN 0.5% Sp AL VN; 5% I1N QZ GP
			557760	92.00	94.00	2.00	S6 GP; Qtz-1 Carb-1 Ank-1; 8% Po IG BD 3% Py SUB BD 1% Po AL VN 1% Py AL VN 0.5% Sp AL VN; 5% I1N QZ GP
			557761	94.00	96.00	2.00	S6 GP; Qtz-1 Carb-1 Ank-1; 8% Po IG BD 3% Py SUB BD 1% Po AL VN 1% Py AL VN 0.5% Sp AL VN; 5% I1N QZ GP
			557762	96.00	98.00	2.00	S6 GP; Qtz-1 Carb-1 Ank-1; 8% Po IG BD 3% Py SUB BD 1% Po AL VN 1% Py AL VN 0.5% Sp AL VN
			557763	98.00	100.00	2.00	S6 GP; Qtz-1 Carb-1 Ank-1; 8% Po IG BD 3% Py SUB BD 1% Po AL VN 1% Py AL VN 0.5% Sp AL VN; 5% I1N QZ CB
			557764	100.00	102.00	2.00	S6 GP; Qtz-1 Carb-1 Ank-1; 8% Po IG BD 3% Py SUB BD 1% Po AL VN 1% Py AL VN 0.5% Sp AL VN; 5% I1N QZ CB
			557765	102.00	104.00	2.00	; 5% I1N QZ CB
			557766	104.00	105.00	1.00	S6 GP; Carb-1 Qtz-1 Carb-1; 5% Py SUB BD 5% Po IG BD; 5% I1N QZ CB
			557767	105.00	107.00	2.00	S6 GP; Carb-1 Qtz-1 Carb-1; 5% Py SUB BD 5% Po IG BD; 5% I1N QZ CB
			557768	107.00	109.00	2.00	S6 GP; Carb-1 Qtz-1 Carb-1; 5% Py SUB BD 5% Po IG BD; 5% I1N QZ CB
			557770	109.00	111.00	2.00	S6 GP; Carb-1 Qtz-1 Carb-1; 5% Py SUB BD 5% Po IG BD; 5% I1N QZ CB
			557771	111.00	113.00	2.00	S6 GP; Qtz-1; 5% Py SUB BD 5% Po IG BD; 5% I1N QZ CB
			557772	113.00	115.00	2.00	S6 GP; Qtz-1; 5% Py SUB BD 5% Po IG BD; 5% I1N QZ CB
			557773	115.00	117.00	2.00	S6 GP; Sil-1 Qtz-1; 5% Py SUB BD 5% Po IG BD
			557774	117.00	119.00	2.00	S6 GP; Sil-1 Qtz-1; 5% Py SUB BD 5% Po IG BD; 3% I1N CB SR
			557775	119.00	121.00	2.00	S6 GP; 5% Py SUB BD 5% Po IG BD; 3% I1N CB SR
			557777	121.00	123.00	2.00	S6 GP; 3% I1N CB SR
			557778	123.00	125.00	2.00	S6 GP; Qtz-2; 1% Cp AL VN 0.1% Sp AL VN 6% Po IG BD 3% Py AL BD; 3% I1N CB SR
			557779	125.00	127.00	2.00	S6 GP; 3% I1N CB SR
			557780	127.00	129.00	2.00	S6 GP; Qtz-1; 5% Po IG BD 3% Py IG BD; 3% I1N QZ CB
			557781	129.00	131.00	2.00	S6 GP; Qtz-1; 5% Po IG BD 3% Py IG BD; 3% I1N QZ CB
			557782	131.00	133.00	2.00	S6 GP; Qtz-1; 5% Po IG BD 3% Py IG BD; 3% I1N QZ CB
			557783	133.00	135.00	2.00	S6 GP; Qtz-1; 5% Po IG BD 3% Py IG BD; 3% I1N QZ CB
			557784	135.00	137.00	2.00	S6 GP; Qtz-1; 5% Po IG BD 3% Py IG BD; 3% I1N QZ CB
			557785	137.00	139.00	2.00	S6 GP; Qtz-1; 5% Po IG BD 3% Py IG BD; 3% I1N QZ CB
			557786	139.00	141.00	2.00	S6 GP; Qtz-1; 5% Po IG BD 3% Py IG BD; 0.1% I1N QZ CB

From	To	Lithology	Sample	From	To	Length	Comments
			557787	141.00	143.00	2.00	S6 GP; Qtz-1; 5% Po IG BD 3% Py IG BD; 0.1% I1N QZ CB
			557788	143.00	145.00	2.00	S6 GP; Qtz-1; 5% Po IG BD 3% Py IG BD; 0.1% I1N QZ CB
			557790	145.00	147.00	2.00	S6 GP; Qtz-1; 5% Po IG BD 3% Py IG BD; 0.1% I1N QZ CB
			557791	147.00	149.00	2.00	S6 GP; Qtz-1; 5% Po IG BD 3% Py IG BD
			557792	149.00	151.00	2.00	S6 GP; Sil-1 Sil-1; 25% Po MA BD 3% Po AL VN 3% Py SUB BD; 3% I1N QZ CB
			557793	151.00	153.00	2.00	S6 GP; Sil-1 Sil-1; 5% Py SUB BD 4% Po IG BD; 3% I1N QZ CB
			557794	153.00	155.00	2.00	S6 GP; Sil-1 Sil-1; 5% Py SUB BD 4% Po IG BD; 3% I1N QZ CB
			557795	155.00	157.00	2.00	S6 GP; Sil-1 Sil-1; 5% Py SUB BD 4% Po IG BD; 3% I1N QZ CB
			557797	157.00	158.70	1.70	S6 GP; Sil-1 Sil-1; 5% Py SUB BD 4% Po IG BD; 3% I1N QZ CB
158.70	159.50	I3A, Gabbro	557798	158.70	159.50	0.80	I3A Chl-Cal; Carb-3; 3% Py SUB PER
<b>Comments:</b>							
159.50	172.00	S6-S9, Mudrock-Iron formati	557799	159.50	161.00	1.50	S6 GP; Sil-1 Carb-1; 5% Po IG BD 3% Py SUB BD; 2% I1N QZ
			557800	161.00	163.00	2.00	S6 GP; Sil-1 Carb-1; 5% Po IG BD 3% Py SUB BD; 2% I1N QZ
<b>Comments:</b>							
			557801	163.00	165.00	2.00	S6-S9; Sil-1 Carb-1; 5% Po IG BD 3% Py SUB BD; 2% I1N QZ
			557802	165.00	167.00	2.00	; 5% Po IG BD 3% Py SUB BD; 2% I1N QZ
			557803	167.00	169.00	2.00	S6 GP; NO ALT; 5% Po IG BD 3% Py SUB BD; 2% I1N QZ
			557804	169.00	171.00	2.00	; 5% Po IG BD 3% Py SUB BD; 2% I1N QZ
			557805	171.00	173.00	2.00	
172.00	189.00	S6, Mudrock	557806	173.00	175.00	2.00	S6 GP; Carb-1 Carb-1; 5% Py SUB BD 3% Po AL BD 2% Po IG BD; 3% I1N QZ
			557807	175.00	177.00	2.00	S6 GP; Carb-1 Carb-1; 5% Py SUB BD 3% Po AL BD 2% Po IG BD; 3% I1N QZ
<b>Comments:</b>							
			557808	177.00	179.00	2.00	S6 GP; Carb-1 Carb-1; 5% Py SUB BD 3% Po AL BD 2% Po IG BD; 3% I1N QZ
			557810	179.00	181.00	2.00	S6 GP; Carb-1 Carb-1; 5% Py SUB BD 3% Po AL BD 2% Po IG BD; 3% I1N QZ
			557811	181.00	183.00	2.00	S6 GP; Carb-1 Carb-1; 5% Py SUB BD 3% Po AL BD 2% Po IG BD; 3% I1N QZ; FLD 4
			557812	183.00	185.00	2.00	S6 GP; Carb-1 Carb-1; 5% Py SUB BD 3% Po AL BD 2% Po IG BD; 3% I1N QZ
			557813	185.00	187.00	2.00	S6 GP; Carb-1 Carb-1; 5% Py SUB BD 3% Po AL BD 2% Po IG BD; 3% I1N QZ
			557814	187.00	189.10	2.10	

From	To	Lithology	Sample	From	To	Length	Comments	
189.00	223.30	<b>S9, Iron formation</b>	557815	189.10	190.00	0.90	S9C; Qtz-1 Ank-1 Carb-1; 1% Po AL VN 0.1% Py AL VN; 8% I1N QZ AK	
			557817	190.00	191.00	1.00	S9C; Qtz-1 Ank-1 Carb-1; 1% Po AL VN 0.1% Py AL VN; 8% I1N QZ AK	
<b>Comments:</b>			557818	191.00	192.00	1.00	S9C; Qtz-1 Ank-1 Carb-1; 1% Po AL VN 0.1% Py AL VN; 8% I1N QZ AK	
			557819	192.00	193.00	1.00	S9C; Qtz-1 Ank-1 Carb-1; 1% Po AL VN 0.1% Py AL VN; 8% I1N QZ AK	
			557820	193.00	194.00	1.00	S9C; Qtz-1 Ank-1 Carb-1; 1% Po AL VN 0.1% Py AL VN; 8% I1N QZ AK	
			557821	194.00	195.00	1.00	S9C; Qtz-1 Ank-1 Carb-1; 1% Po AL VN 0.1% Py AL VN; 8% I1N QZ AK	
			557822	195.00	196.00	1.00	S9C; Qtz-1 Ank-1 Carb-1; 1% Po AL VN 0.1% Py AL VN; 8% I1N QZ AK	
			557823	196.00	197.00	1.00	S9C; Qtz-1 Ank-1 Carb-1; 1% Po AL VN 0.1% Py AL VN; 8% I1N QZ AK	
			557824	197.00	198.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557825	198.00	199.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557826	199.00	200.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557827	200.00	201.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557828	201.00	202.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557830	202.00	203.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557831	203.00	204.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557832	204.00	205.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557833	205.00	206.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557834	206.00	207.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557835	207.00	208.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557837	208.00	209.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557838	209.00	210.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557839	210.00	211.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557840	211.00	212.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557841	212.00	213.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
			557842	213.00	214.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL	
		557843	214.00	215.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL		
		557844	215.00	216.00	1.00	S9C Sid; Carb-1 Ank-1; 2% Po AL VN 0.1% Py AL VN; 2% I1N QZ CL		
		557845	216.00	217.00	1.00			
		557846	217.00	218.00	1.00	S9C; Qtz-1 Chl-1 Carb-1; 0.5% Py AL VN 0.5% Po AL VN; 5% I1N QZ AK		
		557847	218.00	219.00	1.00	S9C; Qtz-1 Chl-1 Carb-1; 0.5% Py AL VN 0.5% Po AL VN; 5% I1N QZ AK		
		557848	219.00	220.00	1.00	S9C; Qtz-1 Chl-1 Carb-1; 0.5% Py AL VN 0.5% Po AL VN; 5% I1N QZ AK		
		557850	220.00	221.00	1.00	S9C; Qtz-1 Chl-1 Carb-1; 0.5% Py AL VN 0.5% Po AL VN; 5% I1N QZ AK		
		557851	221.00	222.00	1.00	S9C; Qtz-1 Chl-1 Carb-1; 0.5% Py AL VN 0.5% Po AL VN; 5% I1N QZ AK		
		557852	222.00	223.30	1.30	S9C; Qtz-1 Chl-1 Carb-1; 0.5% Py AL VN 0.5% Po AL VN; 5% I1N QZ AK		
223.30	227.50	<b>S6, Mudrock</b>	557853	223.30	225.00	1.70	S6 GP; Sil-2 Carb-1; 3% Po IG SCH 2% Py SUB BD	
<b>Comments:</b>			557854	225.00	226.50	1.50	S6 GP; Sil-2 Carb-1; 3% Po IG SCH 2% Py SUB BD	
			557855	226.50	227.50	1.00	S6 GP; Sil-2 Carb-1; 3% Po IG SCH 2% Py SUB BD	

From	To	Lithology	Sample	From	To	Length	Comments	
227.50	248.40	<b>S9, Iron formation</b>	557857	227.50	229.00	1.50	S9C; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 5% I1N QZ CL	
			557858	229.00	230.00	1.00	S9C; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 5% I1N QZ CL	
			<b>Comments:</b>	557859	230.00	231.00	1.00	S9C; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 5% I1N QZ CL
			557860	231.00	232.00	1.00	S9C; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 5% I1N QZ CL	
			557861	232.00	233.00	1.00	S9C; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 5% I1N QZ CL	
			557862	233.00	234.00	1.00	S9C; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 5% I1N QZ CL	
			557863	234.00	235.00	1.00	S9C; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 5% I1N QZ CL	
			557864	235.00	236.00	1.00	S9C; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 5% I1N QZ CL	
			557865	236.00	237.00	1.00	S9C; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 3% I1N QZ CB	
			557866	237.00	238.00	1.00	S9C; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 3% I1N QZ CB	
			557867	238.00	239.00	1.00	S9C Sid; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 3% I1N QZ CB	
			557868	239.00	240.00	1.00	S9C Sid; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 3% I1N QZ CB	
			557870	240.00	241.00	1.00	S9C Sid; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 3% I1N QZ CB	
			557871	241.00	242.00	1.00	S9C Sid; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 3% I1N QZ CB	
			557872	242.00	243.00	1.00	S9C Sid; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 3% I1N QZ CB	
			557873	243.00	244.00	1.00	S9C Sid; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 3% I1N QZ CB	
			557874	244.00	245.00	1.00	S9C Sid; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 2% I1N QZ CB	
			557875	245.00	246.00	1.00	S9C Sid; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 2% I1N QZ CB	
557877	246.00	247.00	1.00	S9C Sid; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 2% I1N QZ CB				
557878	247.00	248.40	1.40	S9C Sid; Sil-1 Qtz-1 Carb-1 Carb-1; 1% Po AL VN 0.1% Po DI PER; 2% I1N QZ CB				
248.40	260.20	<b>S6g, Grey Shale</b>	557879	248.40	250.00	1.60	S6g; Carb-1 Qtz-1; 0.5% Po AL SCH; 1% I1N QZ	
			557880	250.00	251.00	1.00	S6g; Carb-1 Qtz-1; 0.5% Po AL SCH; 1% I1N QZ	
			<b>Comments:</b>	557881	251.00	252.00	1.00	S6g; Carb-1 Qtz-1; 0.5% Po AL SCH; 1% I1N QZ
			557882	252.00	253.00	1.00	S6g; Carb-1 Qtz-1; 0.5% Po AL SCH; 1% I1N QZ	
			557883	253.00	254.00	1.00	S6; Sil-1 Qtz-1 Ank-1; 5% Po IG SCH 1% Py AL SCH 0.1% Po AL VN; 2% I1N QZ CB	
			557884	254.00	255.00	1.00	S6; Sil-1 Qtz-1 Ank-1; 5% Po IG SCH 1% Py AL SCH 0.1% Po AL VN; 2% I1N QZ CB	
			557885	255.00	256.00	1.00	S6; Sil-1 Qtz-1 Ank-1; 5% Po IG SCH 1% Py AL SCH 0.1% Po AL VN; 2% I1N QZ CB	
			557886	256.00	257.00	1.00	S6; Qtz-2 Ank-1 Ser-1 Sil-1; 5% Po IG SCH 1% Py AL SCH 0.1% Po AL VN; 2% I1N QZ CB	
			557887	257.00	258.50	1.50	S6; Qtz-2 Ank-1 Ser-1 Sil-1; 5% Po IG SCH 1% Py AL SCH 0.1% Po AL VN	
			557888	258.50	260.20	1.70	S6; Qtz-2 Ank-1 Ser-1 Sil-1; 5% Po IG SCH 1% Py AL SCH 0.1% Po AL VN; 5% I1N QZ AK	
260.20	262.00	<b>S9, Iron formation</b>	557890	260.20	261.00	0.80	S9C Sid; Qtz-2 Ank-1 Ser-1 Sil-2; 2% Po AL VN; 8% I1N QZ AK	
			557891	261.00	262.00	1.00	S9C Sid; Qtz-2 Ank-1 Ser-1 Sil-2; 2% Po AL VN; 8% I1N QZ AK	
<b>Comments:</b>								



## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
1.00	322.80	-58.80	FM	Test Non-OK	
4.00	322.80	-58.80	FM	Test Non-OK	
7.00	322.70	-58.90	FM	Test Non-OK	
10.00	322.70	-58.80	FM	Test Non-OK	
13.00	343.20	-59.00	FM	Test Non-OK	
16.00	343.20	-59.00	FM	Test Non-OK	
19.00	325.90	-59.20	FM	Test Non-OK	
22.00	345.30	-58.50	FM	Test Non-OK	
25.00	313.60	-59.20	FM	Test Non-OK	
28.00	253.60	-59.10	FM	Test Non-OK	
31.00	265.10	-59.10	FM	Test Non-OK	
34.00	283.60	-59.00	FM	Test Non-OK	
37.00	245.10	-59.00	FM	Test Non-OK	
40.00	245.90	-59.00	FM	Test Non-OK	
43.00	243.00	-59.00	FM	Test Non-OK	
46.00	256.40	-58.90	FM	Test Non-OK	
49.00	252.60	-59.10	FM	Test Non-OK	
52.00	260.90	-59.00	FM	Test Non-OK	
55.00	243.20	-59.10	FM	Test Non-OK	
58.00	246.10	-59.10	FM	Test OK-Accept	
61.00	268.70	-58.60	FM	Test Non-OK	
64.00	242.40	-59.10	FM	Test Non-OK	
67.00	247.40	-59.00	FM	Test OK-Accept	
70.00	246.50	-59.20	FM	Test Non-OK	
73.00	245.10	-59.20	FM	Test Non-OK	
76.00	245.70	-59.10	FM	Test OK-Accept	
79.00	249.00	-59.10	FM	Test Non-OK	
82.00	246.20	-59.10	FM	Test Non-OK	
85.00	245.30	-59.20	FM	Test Non-OK	
88.00	249.00	-59.10	FM	Test Non-OK	
91.00	247.80	-59.10	FM	Test Non-OK	
94.00	246.90	-59.20	FM	Test Non-OK	
97.00	245.90	-59.20	FM	Test OK-Accept	
100.00	252.70	-59.20	FM	Test Non-OK	
103.00	241.40	-59.30	FM	Test Non-OK	
106.00	250.70	-60.70	FM	Test Non-OK	
109.00	250.00	-59.10	FM	Test Non-OK	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
112.00	264.70	-59.30	FM	Test Non-OK	
115.00	273.20	-59.30	FM	Test Non-OK	
118.00	260.40	-59.30	FM	Test Non-OK	
121.00	251.60	-59.30	FM	Test OK-Accept	
124.00	247.60	-59.30	FM	Test Non-OK	
127.00	249.60	-59.40	FM	Test Non-OK	
130.00	251.30	-59.40	FM	Test Non-OK	
133.00	245.20	-59.50	FM	Test OK-Accept	
136.00	244.90	-59.50	FM	Test Non-OK	
139.00	274.00	-59.50	FM	Test Non-OK	
142.00	269.60	-59.50	FM	Test Non-OK	
145.00	250.30	-59.50	FM	Test Non-OK	
148.00	257.60	-59.50	FM	Test Non-OK	
151.00	243.90	-59.50	FM	Test OK-Accept	
154.00	248.00	-59.40	FM	Test OK-Accept	
157.00	248.10	-59.40	FM	Test Non-OK	
160.00	255.30	-59.40	FM	Test Non-OK	
163.00	250.90	-59.40	FM	Test OK-Accept	
166.00	248.10	-59.40	FM	Test OK-Accept	
169.00	249.10	-59.30	FM	Test OK-Accept	
172.00	245.60	-59.40	FM	Test OK-Accept	
175.00	245.80	-59.30	FM	Test OK-Accept	
178.00	246.40	-59.30	FM	Test OK-Accept	
181.00	244.80	-59.30	FM	Test OK-Accept	
184.00	247.60	-59.20	FM	Test OK-Accept	
187.00	247.00	-59.30	FM	Test OK-Accept	
190.00	248.50	-59.30	FM	Test OK-Accept	
193.00	242.50	-59.30	FM	Test Non-OK	
196.00	248.30	-59.30	FM	Test OK-Accept	
199.00	249.20	-59.30	FM	Test OK-Accept	
202.00	249.30	-59.30	FM	Test OK-Accept	
205.00	249.50	-59.20	FM	Test OK-Accept	
208.00	249.00	-59.20	FM	Test OK-Accept	
211.00	249.30	-59.10	FM	Test OK-Accept	
214.00	249.30	-59.10	FM	Test OK-Accept	
217.00	249.40	-59.10	FM	Test OK-Accept	
220.00	249.30	-59.20	FM	Test OK-Accept	
223.00	247.30	-59.20	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
226.00	249.80	-59.10	FM	Test OK-Accept	
229.00	249.60	-59.10	FM	Test OK-Accept	
232.00	249.30	-59.10	FM	Test OK-Accept	
235.00	249.70	-59.10	FM	Test OK-Accept	
238.00	249.40	-59.10	FM	Test OK-Accept	
241.00	249.10	-59.10	FM	Test OK-Accept	
244.00	250.10	-59.00	FM	Test OK-Accept	
247.00	250.00	-59.10	FM	Test OK-Accept	
250.00	249.40	-59.00	FM	Test OK-Accept	
253.00	250.40	-58.90	FM	Test OK-Accept	
256.00	250.30	-58.90	FM	Test OK-Accept	
259.00	250.50	-58.90	FM	Test OK-Accept	
262.00	249.50	-58.90	FM	Test OK-Accept	

## Lithology Data

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
15.00	28.50	S6	BD	HJ			S6 GP			BK		1	Aph		70.00	SHP	Light folding, very blocky, much core shows grinding.
28.50	36.30	I3A	CS	PI			I3A Chl-Ank			VL	GL		Aph		65.00	SHP	
36.30	40.10	S6	BD	NO	HJ		S6 GP			BK		1	Aph			BC	1% mm-cm nodules of pyrite, usually found associated to qz-cb veinlets.
40.10	41.00	I3A	CS	HK			I3A Chl-Ank			GM	VL	2	Aph				
41.00	41.60	I3A	BD	HJ			S6 GP			BK		1	Aph		68.00	SHP	
41.60	44.20	I3A	CS	HK			I3A Chl-Ank			GL	VL	1	Aph			BC	
44.20	46.40	S6	BD	HJ			S6 GP			BK		1	Aph		72.00	SHP	
46.40	46.70	I3A	CS	HK			I3A Chl-Ank			GL	VL	1	Aph				
46.70	47.20	I3A	BD	CS	HJ		S6 GP			BK		1	Aph				
47.20	57.00	I3A	HK	PI	IU		I3A Chl-Ank			VL	GL	1	FG				
57.00	66.20	I3A	CS	APH			I3A			VL	VM	1	Aph				
66.20	72.70	I3A	PI	HJ	MA		I3A QZ			VM	GM	2	MG				
72.70	73.00	I3A	BD	HJ			S6			BK		1	Aph		76.00	SHP	
73.00	78.00	I3A	PI	HJ	MA	FO	I3A QZ			VM	GM	2	MG		66.00	SHP	
78.00	103.00	S6	RU	BD	IU		S6 GP	5.00	Carbonate	GD	BK	2	FG				DIF
103.00	139.00	S6	BD	HJ			S6 GP			BK		1	Aph				
139.00	149.00	S6	BX	BD			S6 GP			BK		1	Aph				
149.00	158.70	S6	BD	HJ			S6 GP			BK		1	Aph				
158.70	159.50	I3A	CS	APH			I3A Chl-Cal			VL		1	Aph		84.00	SHP	
159.50	163.00	S6-S9	BD				S6 GP			BK		1	Aph				

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
163.00	166.00	S6-S9	RU	BD			S6-S9	5.00	Silica	GL	GD	2	FG				
166.00	169.70	S6-S9	BD				S6 GP			BK		1	Aph				
169.70	172.00	S6-S9	RU	BD	IU		S6-S9	10.00	Silica	GL	GD	2	FG		65.00	SHP	
172.00	189.00	S6	BD				S6 GP			BK		1	Aph		70.00	SHP	
189.00	197.00	S9	BX	BD	MA		S9C			GL		3	FG				conglomeratic iron formation with 20% mm to cm subang fragments (of chert beds, black mudstone) in local decimetric intervals, due to slumping maybe???? Local brecciated intervals caused by quartz vein injections with ankerite (2% PO-PY)
197.00	216.50	S9	BD	HJ	RU		S9C Sid	3.00	Carbonate	GM	GD	3	FG				BRE
216.50	223.30	S9	BX	BD	MA		S9C			GL		3	FG				brecciated and conglomeratic iron formation and injected with 5% veins, 8% subangular fragments consisting mostly of chert.
223.30	227.50	S6	BD	BX			S6 GP	3.00	Silica	BK		1	Aph		66.00	SHP	Contains 5% centimetric subangular fragments. 3% dismembered chert beds, silica.
227.50	238.00	S9	BX	HK	IU		S9C	3.00	Silica	GL	GM	3	FG				conglomeratic carbonate iron formation with fragments of silica chert as well as iron formation, around 3-5% cm subangular fragments. Injected with 5% qz-ak-cl-po-py-ser veins.
238.00	248.40	S9	BD	HJ	RU		S9C Sid	8.00	Silica	GM	GL	3	FG		80.00	SHP	
248.40	253.00	S6g	CS	HJ			S6g			GM		2	Aph				Not the same grey shale as at PPR, darker grey, and higher content in Fe in the XRF values
253.00	260.20	S6g	CS	HK	BX		S6			BK	GD	2	Aph				Very heterogeneous, seems to have "mixed" with the overlying unit of grey shale, has penetrative silicification and graphite as well as sulphides. Is not the same black shale as on PPR.
260.20	262.00	S9	RU	BX			S9C Sid			GM		3	FG				Injected with 5% qz-ak-po-ser veins.

**Mineralization Data**

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
15.00	28.50		Py	5.00	SUB	BD		Po	5.00	DI	BD	very fine sub-mm disseminated pyrrhotite along bedding					
28.50	29.00		Py	5.00	SUB	CTC											
29.00	36.30		Py	1.00	DI	PER											
36.30	40.10		Py	4.00	SUB	BD		Py	1.00	NO	VN		Po	4.00	IG	BD	
40.10	41.00		Po	0.10	DI	PER											
41.00	41.60		Po	7.00	IG	BD		Py	2.00	SUB	BD						
41.60	44.20		Po	0.50	DI	PER											
44.20	46.40		Po	4.00	IG	BD		Py	4.00	SUB	BD		Po	5.00	DI	BD	very finely disseminated, sub-mm pyrrhotite
46.40	46.70		Py	3.00	SUB	SCH											
46.70	47.20		Po	5.00	DI	PER											
47.20	57.00		Po	1.00	AL	VN		Py	0.50	SUB	PER						
57.00	66.20		Po	0.50	DI	PER		Py	0.10	SUB	PER						
66.20	72.70		Po	3.00	DI	PER		Po	1.00	AL	VN						
72.70	73.00		Po	8.00	IG	BD											
73.00	78.00		Po	3.00	DI	PER		Po	1.00	AL	VN						
78.00	103.00		Po	8.00	IG	BD		Py	3.00	SUB	BD		Po	1.00	AL	VN	
103.00	122.00		Py	5.00	SUB	BD		Po	5.00	IG	BD						
122.00	126.00		Cp	1.00	AL	VN		Sp	0.10	AL	VN		Po	6.00	IG	BD	
126.00	149.60		Po	5.00	IG	BD		Py	3.00	IG	BD						
149.60	151.00		Po	25.00	MA	BD		Po	3.00	AL	VN		Py	3.00	SUB	BD	
151.00	158.70		Py	5.00	SUB	BD		Po	4.00	IG	BD						
158.70	159.50		Py	3.00	SUB	PER											
159.50	172.00		Po	5.00	IG	BD		Py	3.00	SUB	BD						
172.00	189.00		Py	5.00	SUB	BD		Po	3.00	AL	BD		Po	2.00	IG	BD	
189.00	197.00		Po	1.00	AL	VN		Py	0.10	AL	VN						
197.00	216.50		Po	2.00	AL	VN		Py	0.10	AL	VN						
216.50	223.30		Py	0.50	AL	VN		Po	0.50	AL	VN						
223.30	227.50		Po	3.00	IG	SCH		Py	2.00	SUB	BD						
227.50	248.40		Po	1.00	AL	VN		Po	0.10	DI	PER						
248.40	253.00		Po	0.50	AL	SCH											
253.00	260.20		Po	5.00	IG	SCH		Py	1.00	AL	SCH		Po	0.10	AL	VN	

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
260.20	262.00		Po	2.00	AL	VN											

## Alteration Data

From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
15.00	28.50	Qtz	1	VN							
28.50	29.00	Carb	4	CTC							
29.00	36.30	Carb	2	DI	CC	2	VN	Chl	2	PEN	
36.30	40.10	Qtz	1	VN							
40.10	41.00	Carb	3	DI							
41.00	41.60	Qtz	1	VN	CC	1	VN				
41.60	44.20	Qtz	1	VN	CC	1	VN	Carb	1	PEN	
44.20	46.40	Qtz	1	VN	CC	1	VN				
46.40	47.20	Sil	1	PEN							
47.20	57.00	Qtz	1	VN	CC	1	VN	Ser	2	PEN	
57.00	66.20	Chl	3	RU	Qtz	1	VN	CC	1	VN	
66.20	72.70	Sil	1	PEN	Qtz	1	VN	CC	1	VN	
72.70	73.00	Sil	1	PEN							
73.00	78.00	Sil	1	PEN	Qtz	1	VN	CC	1	VN	
78.00	103.00	Qtz	1	VN	Carb	1	VN	Ank	1	VN	
103.00	111.00	Carb	1	PEN	Qtz	1	VN	Carb	1	CTL	
111.00	115.00	Qtz	1	VN							
115.00	119.40	Sil	1	PEN	Qtz	1	VN				
119.40	122.00	Carb	1	PEN	Carb	1	VN	Qtz	1	VN	
122.00	126.00	Qtz	2	VN							
126.00	149.00	Qtz	1	VN							
149.00	158.70	Sil	1	CTL	Sil	1	PEN				
158.70	159.50	Carb	3	PEN							
159.50	166.00	Sil	1	RU	Carb	1	RU				
166.00	169.80	NO ALT									
169.80	172.00	Sil	2	RU	Carb	2	RU				
172.00	189.00	Carb	1	VN	Carb	1	FRM				cb associated with subidio pyrite grains
189.00	197.00	Qtz	1	VN	Ank	1	VN	Carb	1	PEN	
197.00	216.50	Carb	1	PEN	Ank	1	VN				
216.50	223.30	Qtz	1	VN	Chl	1	VN	Carb	1	PEN	
223.30	227.50	Sil	2	PEN	Carb	1	RU				
227.50	248.40	Sil	1	PEN	Qtz	1	VN	Carb	1	PEN	
248.40	253.00	Carb	1	PEN	Qtz	1	VN				



From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
253.00	256.00	Sil	1	PEN	Qtz	1	VN	Ank	1	VN	
256.00	260.20	Qtz	2	VN	Ank	1	VN	Ser	1	VN	
260.20	262.00	Qtz	2	VN	Ank	1	VN	Ser	1	VN	

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
15.00	28.50	2.00		I1N	UNK	Vein >5cm	FC	1.00	CB	2.00	QZ	95.00				Po	1.00			
28.50	36.30	1.00		I1N	UNK	Veinlet <5cm	QZ	80.00	CC	20.00										
36.30	40.10	0.50		I1N	UNK	Veinlet <5cm	QZ	80.00	CC	20.00						Py	1.00			
40.10	44.20	2.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00										
44.20	46.40	0.50		I1N	UNK	Veinlet <5cm	QZ	50.00	CB	50.00										
46.40	47.20	0.10		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00										
47.20	57.00	5.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00										
57.00	66.20	3.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CB	50.00										
66.20	72.70	3.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CB	50.00										
73.00	78.00	3.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CB	50.00										
78.00	97.00	5.00		I1N	UNK	Vein >5cm	QZ	89.00	GP	5.00	AK	2.00				Po	3.00	Py	1.00	
97.00	115.80	5.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CB	50.00										
115.80	127.00	3.00		I1N	UNK	Vein >5cm	CB	20.00	SR	3.00	GP	5.00				Cp	1.00	Sp	0.10	
127.00	139.00	3.00		I1N	UNK	Veinlet <5cm	QZ	85.00	CB	15.00						Cp	0.10	Sp	0.10	
139.00	148.00	0.10		I1N	UNK	Veinlet <5cm	QZ	85.00	CB	15.00										
148.00	158.70	3.00		I1N	UNK	Veinlet <5cm	QZ	95.00	CB	5.00						Po	2.00	Cp	0.50	py (0.5)
159.50	172.00	2.00		I1N	UNK	Veinlet <5cm	QZ	100.00												
172.00	189.00	3.00		I1N	UNK	Veinlet <5cm	QZ	100.00												
189.00	197.00	8.00		I1N	UNK	Vein >5cm	QZ	90.00	AK	5.00	CL	1.00				Po	1.00	Py	0.10	
197.00	216.50	2.00		I1N	UNK	Veinlet <5cm	QZ	98.00	CL	1.00	AK	1.00				Po	2.00			
216.50	223.30	5.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00						Po	0.50	Py	0.50	
227.50	236.00	5.00		I1N	UNK	Vein >5cm	QZ	90.00	CL	2.00	AK	8.00				Po	1.00	Py	0.50	sericite 1%
236.00	244.00	3.00		I1N	EXT VN	Veinlet <5cm	QZ	90.00	CB	10.00										low core angle, millimetric, tension veinlets
244.00	248.40	2.00		I1N	UNK	Veinlet <5cm	QZ	80.00	CB	20.00						Po	2.00			

From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments	
248.40	253.00	1.00		I1N	UNK	Veinlet <5cm	QZ	80.00													
253.00	257.80	2.00		I1N	UNK	Veinlet <5cm	QZ	80.00	CB	20.00											
257.80	260.20	5.00		I1N	UNK	Vein >5cm	QZ	90.00	AK	8.00	CL	2.00				Po	1.00				
260.20	262.00	8.00		I1N	UNK	Vein >5cm	QZ	92.00	AK	3.00						Po	3.00				

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
181.00	184.00	FLD	4	66.00	

## Oriented Structure Data

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
17.30	S0		72.00										
19.00	AxialPlane		70.00										
20.20	VN		55.00										quartz-graphite-pyrite-pyrrhotite vein, 5cm
24.80	S0		74.00										
28.50	CNT		70.00										
31.40	VN		70.00										
36.00	S2		51.00										
37.50	S0		58.00										
40.80	S0		65.00										
43.50	VN		60.00	320.00	259.52	-59.02	-56.96	326.97	0.00	56.97			quartz calcite veinlet
46.00	S0		67.00										
49.80	S0		64.00										
52.00	VN		60.00										
56.30	S0		63.00	323.00	247.25	-59.03	-54.73	317.70	0.00	47.70			
56.80	VN		56.00	308.00	247.10	-59.07	-57.71	305.68	0.00	35.68			
57.00	CNT		54.00	342.00	247.10	-59.07	-66.01	325.63	0.00	55.63			
62.30	VN		68.00										
66.20	VN		70.00										
66.20	CNT		70.00										veined contact
67.20	VN		22.00	8.00	247.60	-59.10	-81.37	165.10	0.00	255.10			
72.30	VN		45.00	160.00	247.15	-59.15	-18.60	107.83	0.00	197.83			
72.70	CNT		67.00	205.00	247.77	-59.13	-13.64	293.31	0.00	23.31			
79.20	S0		57.00										
82.50	VN		85.00										
95.30	S0		77.00										
99.90	S0		78.00	84.00	256.00	-59.30	-33.90	7.76	0.00	97.76			
100.30	S0		68.00	60.00	254.53	-59.30	-45.44	11.62	0.00	101.62			
103.00	S2		52.00	148.00	248.93	-59.30	-19.24	77.07	0.00	167.07			
106.60	S0		65.00	248.00	250.17	-59.40	-30.61	289.85	0.00	19.85			
109.10	S0		66.00										
113.00	S0		68.00										
119.40	S0		74.00										
123.30	VN		64.00	208.00	256.38	-59.50	-13.86	287.18	0.00	17.18			
123.70	S0		56.00	244.00	255.32	-59.50	-32.99	277.95	0.00	7.95			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
127.20			77.00	18.00	245.95	-59.45	-43.08	341.79	0.00	71.79	26.00	FAXIS	
127.20	AxialPlane		77.00	18.00	245.95	-59.45	-43.08	341.79	0.00	71.79			
130.60	S0		69.00	152.00	248.08	-59.40	-15.28	17.75	0.00	107.75			
131.00	VN		66.00	188.00	248.08	-59.40	-7.54	312.52	0.00	42.52			
133.40	S0		42.00										
145.50	S0		77.00	22.00	245.73	-59.33	-42.97	342.84	0.00	72.84			
150.90			79.00	174.00	245.07	-59.30	-19.79	338.44	0.00	68.44	66.00	FAXIS	
150.90	AxialPlane		79.00	174.00	245.07	-59.30	-19.79	338.44	0.00	68.44			
151.00	S0		71.00	140.00	245.07	-59.30	-19.89	13.02	0.00	103.02			
157.80	S0		77.00	334.00	248.00	-59.30	-42.73	329.64	0.00	59.64			
160.40	S0		74.00	58.00	244.50	-59.30	-41.24	355.27	0.00	85.27			
160.50	AxialPlane		76.00	94.00	244.50	-59.30	-32.55	1.15	0.00	91.15	93.00		
163.10	S0		75.00	333.00	247.33	-59.30	-44.54	327.69	0.00	57.69			
166.40	S0		65.00	78.00	249.22	-59.30	-42.74	16.74	0.00	106.74			
167.00			60.00	350.00	249.23	-59.30	-60.44	333.51	0.00	63.51	70.00	FAXIS	
167.00	AxialPlane		60.00	350.00	249.23	-59.30	-60.44	333.51	0.00	63.51			
172.10	S0		57.00										
175.90	S0		80.00										
181.10	S0		32.00									Pli	
181.15	S0		81.00									Pli	
185.30	S0		55.00										
189.00	CNT		70.00										
190.80	S0		70.00	350.00	249.63	-59.10	-50.70	335.23	0.00	65.23			
194.90	VN		67.00	82.00	249.50	-59.10	-40.37	16.19	0.00	106.19			
196.40	S0		65.00	345.00	249.65	-59.10	-55.39	332.01	0.00	62.01			
199.30	S0		70.00	5.00	249.30	-59.10	-50.85	341.50	0.00	71.50			
199.80	S0		70.00	10.00	249.25	-59.10	-50.70	343.65	0.00	73.65			
203.50	S0		77.00										
206.00	VN		54.00										
207.80	S0		79.00	360.00	249.60	-59.03	-41.97	339.60	0.00	69.60			
212.40	S0		77.00										
215.30	VN		39.00										
215.80	S0		70.00	25.00	250.47	-58.90	-49.87	351.36	0.00	81.36			
221.30	S0		70.00	360.00	249.50	-58.90	-51.10	339.50	0.00	69.50			
223.30	CNT		66.00	145.00	249.50	-58.90	-17.38	30.85	0.00	120.85			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
227.50	CNT		62.00										
230.60	S0		70.00	15.00	249.50	-58.90	-50.66	346.07	0.00	76.07			
232.20	VN		25.00	49.00	249.50	-58.90	-86.86	22.74	0.00	112.74			
232.20	VN		25.00	49.00	249.50	-58.90	-86.86	22.74	0.00	112.74			qz-ak-ser vein, decimetric
233.90	S0		65.00	360.00	249.50	-58.90	-56.10	339.50	0.00	69.50			
234.30	VN		32.00	345.00	249.50	-58.90	-88.24	326.81	0.00	56.81			
234.30	VN		32.00	345.00	249.50	-58.90	-88.24	326.81	0.00	56.81			qz-ak-chl vein, centimetric
236.40	S0		85.00	70.00	249.50	-58.90	-33.11	348.12	0.00	78.12			
238.70	S0		76.00	50.00	249.50	-58.90	-41.37	355.79	0.00	85.79			
241.50	VN		38.00										
243.60	S0		77.00	360.00	249.50	-58.90	-44.10	339.50	0.00	69.50			vein with 5% calcopyrite
246.90	S0		76.00	360.00	249.50	-58.90	-45.10	339.50	0.00	69.50			
249.60	S2		64.00	24.00	249.50	-58.90	-55.75	351.96	0.00	81.96			
250.80	S0		76.00	49.00	249.50	-58.90	-41.51	355.49	0.00	85.49			
259.10	S0		69.00										

Sample Data - ASSAY

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557715	14.00	16.00	2.00	2	VO18211339 - Finalized	16/09/2018	0.048	0.750	112.50	267.00	20.40	272.0	0.326	232.00	23.80	168.50	1 120.00
557717	16.00	18.00	2.00	2	VO18211339 - Finalized	16/09/2018	0.048	0.740	134.50	262.00	22.10	343.0	0.419	203.00	21.90	150.50	987.00
557718	18.00	20.00	2.00	2	VO18211339 - Finalized	16/09/2018	0.061	0.880	155.50	269.00	23.80	268.0	0.665	217.00	22.40	163.00	1 020.00
557719	20.00	22.00	2.00	2	VO18211339 - Finalized	16/09/2018	0.046	0.590	116.00	169.00	18.40	204.0	0.369	234.00	22.80	146.50	1 220.00
557720	22.00	24.00	2.00	2	VO18211339 - Finalized	16/09/2018	0.074	0.750	137.00	242.00	20.80	285.0	0.497	248.00	25.90	179.00	2 180.00
557721	24.00	26.00	2.00	2	VO18211343 - Finalized	16/09/2018	0.060	0.760	140.00	265.00	22.20	271.0	0.365	215.00	22.90	158.00	903.00
557722	26.00	27.50	1.50	2	VO18211343 - Finalized	16/09/2018	0.051	0.850	94.90	318.00	23.50	395.0	0.668	159.00	19.65	129.50	1 170.00
557723	27.50	28.50	1.00	2	VO18211343 - Finalized	16/09/2018	0.001	0.280	22.10	296.00	15.60	882.0	0.016	159.00	17.90	93.60	76.00
557724	28.50	30.50	2.00	2	VO18211343 - Finalized	16/09/2018	0.001	0.080	45.00	150.00	9.49	911.0	0.007	312.00	1.44	85.00	109.00
557725	30.50	32.50	2.00	2	VO18211343 - Finalized	16/09/2018	0.001	0.090	92.10	138.00	8.22	1,060.0	0.005	279.00	0.25	132.50	86.00
557726	32.50	34.50	2.00	2	VO18211343 - Finalized	16/09/2018	0.001	0.020	200.00	46.50	8.66	1,600.0	0.010	222.00	0.17	345.00	121.00
557727	34.50	36.30	1.80	2	VO18211343 - Finalized	16/09/2018	0.001	0.070	52.20	121.50	8.76	1,320.0	0.003	287.00	1.37	138.50	255.00
557728	36.30	38.30	2.00	2	VO18211343 - Finalized	16/09/2018	0.063	1.030	80.60	220.00	20.40	309.0	0.282	126.00	15.80	95.60	363.00
557730	38.30	40.10	1.80	2	VO18211343 - Finalized	16/09/2018	0.082	1.080	114.50	167.00	19.95	141.0	0.231	123.00	13.60	93.40	281.00
557731	40.10	42.10	2.00	2	VO18211343 - Finalized	16/09/2018	0.006	0.310	45.70	184.00	12.55	1,000.0	0.093	275.00	6.11	112.50	446.00
557732	42.10	44.20	2.10	2	VO18211343 - Finalized	16/09/2018	0.001	0.190	120.50	149.50	8.29	1,530.0	0.018	250.00	1.09	217.00	101.00
557733	44.20	46.40	2.20	2	VO18211343 - Finalized	16/09/2018	0.065	1.480	103.00	274.00	22.10	320.0	0.446	218.00	23.50	161.50	1 060.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557734	46.40	48.00	1.60	2	VO18211343 - Finalized	16/09/2018	0.003	0.500	6.60	222.00	10.30	1,440.0	0.058	309.00	6.02	119.50	264.00
557735	48.00	50.00	2.00	2	VO18211343 - Finalized	16/09/2018	0.001	0.120	28.90	160.50	6.93	1,140.0	0.014	297.00	1.42	92.00	133.00
557737	50.00	52.00	2.00	2	VO18211343 - Finalized	16/09/2018	0.001	0.050	49.40	143.00	7.68	1,100.0	0.007	297.00	1.02	90.50	138.00
557738	52.00	54.00	2.00	2	VO18211343 - Finalized	16/09/2018	0.001	0.070	45.30	144.50	9.48	1,180.0	0.009	324.00	2.55	104.00	200.00
557739	54.00	56.00	2.00	2	VO18211343 - Finalized	16/09/2018	0.001	0.090	63.80	124.00	7.74	1,250.0	0.029	305.00	1.61	98.30	266.00
557740	56.00	58.00	2.00	2	VO18211343 - Finalized	16/09/2018	0.001	0.120	44.90	131.00	9.68	1,120.0	0.027	318.00	1.80	87.00	250.00
557741	58.00	60.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.002	0.090	8.40	181.50	8.78	1,440.0	0.008	310.00	0.97	98.50	107.00
557742	60.00	62.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.003	0.100	2.60	123.00	8.94	1,440.0	0.010	323.00	0.73	87.50	118.00
557743	62.00	64.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.001	0.040	3.40	131.50	9.38	1,270.0	0.012	305.00	1.25	95.00	158.00
557744	64.00	66.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.001	0.060	38.70	132.00	8.44	1,400.0	0.003	294.00	0.47	92.30	106.00
557745	66.00	68.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.001	0.060	44.50	120.00	8.99	1,400.0	0.007	300.00	0.95	93.30	137.00
557746	68.00	70.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.001	0.140	57.60	133.00	8.56	1,240.0	0.007	275.00	1.17	85.00	124.00
557747	70.00	72.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.007	0.250	45.80	177.00	10.45	1,210.0	0.066	260.00	3.07	92.20	290.00
557748	72.00	74.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.001	0.180	40.80	127.00	8.94	1,200.0	0.042	289.00	1.90	83.50	224.00
557750	74.00	76.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.001	0.070	41.90	115.50	7.92	1,340.0	0.009	281.00	0.25	83.80	140.00
557751	76.00	78.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.001	0.150	62.90	96.60	8.30	1,290.0	0.023	300.00	0.33	114.50	154.00
557752	78.00	80.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.056	2.640	47.10	288.00	19.30	1,310.0	0.632	713.00	83.20	255.00	2 130.00
557753	80.00	82.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.014	1.000	55.80	144.00	12.05	512.0	0.331	239.00	19.05	146.50	775.00
557754	82.00	84.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.016	1.210	41.70	183.00	12.05	653.0	0.498	399.00	43.90	153.00	1 580.00
557755	84.00	86.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.005	1.270	84.70	94.00	11.10	840.0	0.463	421.00	32.60	118.50	863.00
557757	86.00	88.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.031	2.280	114.00	237.00	16.50	993.0	0.978	824.00	77.70	237.00	2 340.00
557758	88.00	90.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.046	1.980	160.00	129.50	16.40	749.0	1.165	878.00	86.00	193.50	2 800.00
557759	90.00	92.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.038	2.070	124.00	160.00	15.55	704.0	0.882	661.00	64.00	192.00	1 660.00
557760	92.00	94.00	2.00	2	VO18211348 - Finalized	16/09/2018	0.007	0.650	30.10	124.50	9.86	378.0	0.141	155.00	10.60	118.00	501.00
557761	94.00	96.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.003	0.770	18.20	106.50	9.03	297.0	0.153	156.00	10.70	116.00	444.00
557762	96.00	98.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.003	1.090	53.50	91.40	10.50	256.0	0.305	161.00	10.95	101.50	1 000.00
557763	98.00	100.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.002	1.200	45.50	125.00	11.35	294.0	0.162	154.00	9.68	131.50	502.00
557764	100.00	102.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.004	0.760	41.90	99.70	8.56	162.0	0.160	175.00	11.45	109.00	453.00
557765	102.00	104.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.038	3.070	21.70	229.00	13.95	314.0	0.550	999.00	106.50	233.00	1 890.00
557766	104.00	105.00	1.00	2	VO18211352 - Finalized	16/09/2018	0.026	2.950	5.10	222.00	14.30	770.0	0.627	1 640.00	154.00	267.00	2 520.00
557767	105.00	107.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.016	1.410	55.90	145.00	12.45	558.0	0.526	445.00	44.10	169.00	1 130.00
557768	107.00	109.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.024	1.260	56.80	131.00	10.85	595.0	0.426	179.00	12.85	132.00	577.00
557770	109.00	111.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.018	0.920	54.90	125.50	9.59	450.0	0.439	164.00	12.05	112.50	643.00
557771	111.00	113.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.044	2.690	116.50	161.50	12.70	1,640.0	0.968	463.00	52.60	179.00	1 390.00
557772	113.00	115.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.062	3.780	54.30	554.00	16.65	2,880.0	1.120	1 220.00	132.50	356.00	3 350.00
557773	115.00	117.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.053	3.800	94.40	520.00	17.65	2,430.0	1.420	1 040.00	114.50	345.00	3 260.00
557774	117.00	119.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.039	2.750	23.10	462.00	15.20	647.0	1.375	1 690.00	163.00	337.00	4 500.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557775	119.00	121.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.026	1.840	99.40	367.00	15.60	3,290.0	0.862	702.00	73.00	216.00	2 510.00
557777	121.00	123.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.043	2.810	168.50	401.00	16.15	2,660.0	0.917	967.00	115.50	224.00	2 790.00
557778	123.00	125.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.036	3.620	209.00	754.00	18.45	3,490.0	0.963	1 230.00	128.00	296.00	3 100.00
557779	125.00	127.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.033	2.150	186.50	406.00	14.70	3,560.0	0.779	954.00	108.00	203.00	2 170.00
557780	127.00	129.00	2.00	2	VO18211352 - Finalized	16/09/2018	0.049	2.290	205.00	372.00	14.05	2,340.0	0.870	959.00	107.00	219.00	2 930.00
557781	129.00	131.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.027	2.000	180.00	384.00	16.85	5,550.0	0.490	840.00	103.50	243.00	1 240.00
557782	131.00	133.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.052	2.610	128.00	410.00	15.60	2,300.0	0.914	1 160.00	127.50	300.00	2 370.00
557783	133.00	135.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.027	1.860	83.90	296.00	11.75	1,180.0	0.982	859.00	91.60	241.00	2 210.00
557784	135.00	137.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.048	2.530	263.00	301.00	14.05	447.0	1.855	1 240.00	124.50	351.00	3 220.00
557785	137.00	139.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.032	2.150	39.00	661.00	13.40	1,500.0	0.793	1 280.00	150.50	353.00	2 730.00
557786	139.00	141.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.049	2.880	156.00	423.00	15.45	1,220.0	1.145	1 180.00	141.50	328.00	2 050.00
557787	141.00	143.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.050	2.360	393.00	120.50	16.60	476.0	2.550	1 480.00	142.50	380.00	3 410.00
557788	143.00	145.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.053	2.400	378.00	168.00	15.75	613.0	2.360	1 400.00	150.50	388.00	3 240.00
557790	145.00	147.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.044	2.720	279.00	264.00	14.70	913.0	2.010	1 440.00	159.00	409.00	2 770.00
557791	147.00	149.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.055	2.270	243.00	224.00	13.35	810.0	2.040	1 720.00	148.00	375.00	3 160.00
557792	149.00	151.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.051	2.500	126.00	273.00	14.70	1,400.0	0.897	755.00	103.50	236.00	1 740.00
557793	151.00	153.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.010	0.830	63.20	169.50	9.82	463.0	0.349	208.00	23.00	119.00	473.00
557794	153.00	155.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.019	1.850	48.60	314.00	12.15	2,390.0	0.406	647.00	76.00	205.00	744.00
557795	155.00	157.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.017	2.340	78.80	383.00	15.20	455.0	0.566	689.00	98.00	243.00	1 200.00
557797	157.00	158.70	1.70	2	VO18211354 - Finalized	16/09/2018	0.014	1.450	17.50	269.00	7.35	1,020.0	0.706	650.00	56.00	152.50	2 560.00
557798	158.70	159.50	0.80	2	VO18211354 - Finalized	16/09/2018	0.001	0.400	15.70	113.50	4.10	240.0	0.177	234.00	2.20	46.80	437.00
557799	159.50	161.00	1.50	2	VO18211354 - Finalized	16/09/2018	0.015	1.380	14.40	216.00	13.25	1,060.0	0.153	282.00	6.75	70.70	323.00
557800	161.00	163.00	2.00	2	VO18211354 - Finalized	16/09/2018	0.011	1.510	6.70	207.00	13.00	1,200.0	0.195	308.00	7.03	64.20	329.00
557801	163.00	165.00	2.00	2	VO18241788 - Finalized	15/10/2018	0.015	1.820	24.80	284.00	17.20	1,800.0	0.090	302.00	7.31	83.60	208.00
557802	165.00	167.00	2.00	2	VO18241788 - Finalized	15/10/2018	0.019	1.540	11.20	600.00	10.75	1,350.0	0.588	561.00	34.60	143.00	1 950.00
557803	167.00	169.00	2.00	2	VO18241788 - Finalized	15/10/2018	0.025	1.380	17.80	407.00	8.72	1,040.0	0.898	740.00	66.70	116.00	2 940.00
557804	169.00	171.00	2.00	2	VO18241788 - Finalized	15/10/2018	0.019	1.320	158.50	334.00	11.55	2,690.0	0.410	580.00	51.20	120.00	1 300.00
557805	171.00	173.00	2.00	2	VO18241788 - Finalized	15/10/2018	0.004	1.140	36.80	406.00	11.45	805.0	0.285	651.00	54.60	172.50	989.00
557806	173.00	175.00	2.00	2	VO18241788 - Finalized	15/10/2018	0.009	1.260	9.10	275.00	5.43	304.0	0.637	1 160.00	107.50	246.00	2 670.00
557807	175.00	177.00	2.00	2	VO18241788 - Finalized	15/10/2018	0.028	1.950	87.90	445.00	12.20	665.0	1.125	1 680.00	170.50	330.00	3 910.00
557808	177.00	179.00	2.00	2	VO18241788 - Finalized	15/10/2018	0.033	1.670	93.70	297.00	10.75	646.0	0.758	1 610.00	209.00	257.00	1 860.00
557810	179.00	181.00	2.00	2	VO18241788 - Finalized	15/10/2018	0.023	1.140	56.30	283.00	10.35	549.0	0.378	1 010.00	110.50	198.00	1 440.00
557811	181.00	183.00	2.00	2	VO18241788 - Finalized	15/10/2018	0.002	0.790	53.90	230.00	10.50	420.0	0.081	378.00	5.35	137.50	362.00
557812	183.00	185.00	2.00	2	VO18241788 - Finalized	15/10/2018	0.012	1.490	77.60	256.00	14.25	431.0	0.271	471.00	31.10	186.50	576.00
557813	185.00	187.00	2.00	2	VO18241788 - Finalized	15/10/2018	0.041	1.940	78.20	99.90	12.30	308.0	0.531	275.00	29.80	118.00	1 080.00
557814	187.00	189.10	2.10	2	VO18241788 - Finalized	15/10/2018	0.012	1.520	43.00	103.00	11.80	884.0	0.245	231.00	27.80	107.50	651.00
557815	189.10	190.00	0.90	2	VO18241788 - Finalized	15/10/2018	0.001	0.200	0.80	27.50	11.80	3,140.0	0.011	15.00	1.85	22.50	16.00



Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557817	190.00	191.00	1.00	2	VO18241788 - Finalized	15/10/2018	0.001	0.030	0.80	4.10	14.60	2,660.0	0.005	6.00	0.42	7.40	9.00
557818	191.00	192.00	1.00	2	VO18241788 - Finalized	15/10/2018	0.001	0.020	0.10	2.10	12.60	2,240.0	0.003	5.00	0.37	3.40	6.00
557819	192.00	193.00	1.00	2	VO18241788 - Finalized	15/10/2018	0.001	0.030	2.80	4.30	13.60	2,230.0	0.007	6.00	0.44	8.60	11.00
557820	193.00	194.00	1.00	2	VO18241788 - Finalized	15/10/2018	0.001	0.070	3.00	3.10	10.05	2,100.0	0.006	13.00	0.43	6.50	12.00
557821	194.00	195.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.010	0.040	7.90	2.40	12.55	2,450.0	0.011	11.00	0.53	7.60	10.00
557822	195.00	196.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.040	1.40	2.50	16.35	2,840.0	0.003	8.00	0.51	12.90	11.00
557823	196.00	197.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.020	2.60	1.80	14.70	3,140.0	0.006	13.00	0.52	5.70	9.00
557824	197.00	198.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.030	7.70	4.50	19.35	9,410.0	0.003	33.00	0.67	11.60	22.00
557825	198.00	199.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.030	3.20	8.20	20.20	11,700.0	0.005	61.00	0.64	10.80	26.00
557826	199.00	200.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.020	2.40	4.00	15.70	8,960.0	0.003	35.00	0.43	8.00	13.00
557827	200.00	201.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.020	2.20	5.80	19.85	11,650.0	0.003	55.00	0.51	9.40	18.00
557828	201.00	202.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.050	162.00	14.00	15.80	10,550.0	0.006	37.00	0.69	10.20	12.00
557830	202.00	203.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.020	5.00	8.40	18.85	13,150.0	0.005	45.00	0.55	11.90	15.00
557831	203.00	204.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.050	3.20	13.10	21.30	15,850.0	0.003	111.00	0.72	17.50	24.00
557832	204.00	205.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.050	4.10	4.60	16.00	18,750.0	0.003	53.00	0.45	9.80	15.00
557833	205.00	206.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.020	0.80	5.00	17.10	22,100.0	0.003	60.00	0.48	9.80	16.00
557834	206.00	207.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.020	2.10	9.80	19.85	27,200.0	0.003	70.00	0.51	12.40	15.00
557835	207.00	208.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.020	0.80	8.20	21.00	25,700.0	0.003	71.00	0.56	12.50	15.00
557837	208.00	209.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.020	2.80	9.80	22.60	20,200.0	0.003	77.00	0.53	13.30	15.00
557838	209.00	210.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.030	1.50	7.50	18.30	14,250.0	0.003	64.00	0.54	10.70	11.00
557839	210.00	211.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.030	1.90	8.20	18.65	17,300.0	0.005	79.00	0.65	12.80	15.00
557840	211.00	212.00	1.00	2	VO18241790 - Finalized	13/10/2018	0.001	0.030	3.30	9.80	20.20	14,650.0	0.008	78.00	0.69	12.30	16.00
557841	212.00	213.00	1.00	2	VO18241794 - Finalized	16/10/2018	0.001	0.010	2.80	7.20	19.35	11,950.0	0.007	56.00	0.56	9.30	14.00
557842	213.00	214.00	1.00	2	VO18241794 - Finalized	16/10/2018	0.001	0.020	10.70	17.60	16.70	10,650.0	0.005	48.00	0.77	13.20	12.00
557843	214.00	215.00	1.00	2	VO18241794 - Finalized	16/10/2018	0.001	0.020	0.70	6.40	19.85	10,600.0	0.007	43.00	0.55	7.00	14.00
557844	215.00	216.00	1.00	2	VO18241794 - Finalized	16/10/2018	0.001	0.030	0.90	5.30	18.05	9,240.0	0.005	33.00	0.59	7.40	10.00
557845	216.00	217.00	1.00	2	VO18241794 - Finalized	16/10/2018	0.001	0.050	7.00	8.10	17.85	5,590.0	0.008	20.00	0.98	11.60	10.00
557846	217.00	218.00	1.00	2	VO18241794 - Finalized	16/10/2018	0.001	0.020	11.90	2.90	13.40	2,380.0	0.009	6.00	0.39	5.50	7.00
557847	218.00	219.00	1.00	2	VO18241794 - Finalized	16/10/2018	0.001	0.020	1.30	3.60	16.80	2,970.0	0.005	7.00	0.26	5.50	8.00
557848	219.00	220.00	1.00	2	VO18241794 - Finalized	16/10/2018	0.001	0.020	0.80	3.00	11.10	2,160.0	0.005	6.00	0.24	5.40	10.00
557850	220.00	221.00	1.00	2	VO18241794 - Finalized	16/10/2018	0.001	0.060	3.50	7.50	15.70	3,100.0	0.010	7.00	0.56	15.60	17.00
557851	221.00	222.00	1.00	2	VO18241794 - Finalized	16/10/2018	0.001	0.020	0.70	2.60	12.70	2,500.0	0.008	10.00	0.24	6.70	13.00
557852	222.00	223.30	1.30	2	VO18241794 - Finalized	16/10/2018	0.001	0.030	0.70	6.90	14.25	3,060.0	0.008	26.00	0.81	17.00	28.00
557853	223.30	225.00	1.70	2	VO18241794 - Finalized	16/10/2018	0.006	0.460	2.70	67.40	10.15	1,480.0	0.068	195.00	27.70	70.00	39.00
557854	225.00	226.50	1.50	2	VO18241794 - Finalized	16/10/2018	0.001	0.260	2.40	42.80	5.58	677.0	0.050	147.00	19.85	48.10	26.00
557855	226.50	227.50	1.00	2	VO18241794 - Finalized	16/10/2018	0.006	0.480	3.50	77.10	11.85	2,440.0	0.069	190.00	28.90	70.70	52.00
557857	227.50	229.00	1.50	2	VO18241794 - Finalized	16/10/2018	0.001	0.090	2.50	12.80	11.80	2,810.0	0.012	18.00	1.31	12.70	27.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557858	229.00	230.00	1.00	2	VO18241794 - Finalized	16/10/2018	0.001	0.030	5.10	3.60	14.00	2,800.0	0.008	15.00	0.30	10.00	12.00
557859	230.00	231.00	1.00	2	VO18241794 - Finalized	16/10/2018	0.001	0.020	0.60	1.90	13.30	2,230.0	0.005	7.00	0.33	5.50	8.00
557860	231.00	232.00	1.00	2	VO18241794 - Finalized	16/10/2018	0.001	0.030	2.50	2.50	15.05	2,630.0	0.010	7.00	0.26	6.40	14.00
557861	232.00	233.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.010	1.50	1.40	11.80	2,620.0	0.008	12.00	0.43	4.10	16.00
557862	233.00	234.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.020	12.50	2.00	13.45	2,330.0	0.006	6.00	0.44	6.90	6.00
557863	234.00	235.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.020	3.40	2.40	10.85	2,170.0	0.005	12.00	0.35	4.30	8.00
557864	235.00	236.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.030	4.70	2.70	16.05	3,010.0	0.003	9.00	0.42	9.80	7.00
557865	236.00	237.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.010	3.00	2.60	12.70	2,500.0	0.007	7.00	0.30	6.20	5.00
557866	237.00	238.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.020	0.20	3.50	13.50	3,140.0	0.016	8.00	0.45	6.90	7.00
557867	238.00	239.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.020	0.40	3.70	16.60	6,800.0	0.008	23.00	0.31	8.30	7.00
557868	239.00	240.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.020	11.70	4.90	17.10	9,460.0	0.009	35.00	0.59	8.70	8.00
557870	240.00	241.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.030	5.40	11.90	19.10	12,600.0	0.008	72.00	0.81	12.80	13.00
557871	241.00	242.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.020	14.00	7.40	17.50	10,400.0	0.005	36.00	1.17	10.20	10.00
557872	242.00	243.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.020	3.90	10.30	17.75	12,150.0	0.005	62.00	0.77	12.60	14.00
557873	243.00	244.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.020	5.60	6.10	19.05	11,600.0	0.003	46.00	0.44	9.00	11.00
557874	244.00	245.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.030	4.80	10.70	19.25	14,400.0	0.003	66.00	0.39	12.20	16.00
557875	245.00	246.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.040	5.30	15.40	20.20	17,200.0	0.003	94.00	0.52	18.60	24.00
557877	246.00	247.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.030	0.20	9.10	20.40	18,350.0	0.003	82.00	0.53	13.80	30.00
557878	247.00	248.40	1.40	2	VO18241798 - Finalized	16/10/2018	0.001	0.030	2.70	7.80	15.85	18,150.0	0.003	56.00	0.37	11.20	26.00
557879	248.40	250.00	1.60	2	VO18241798 - Finalized	16/10/2018	0.004	0.260	84.20	40.70	10.70	3,670.0	0.029	218.00	4.67	63.20	160.00
557880	250.00	251.00	1.00	2	VO18241798 - Finalized	16/10/2018	0.001	0.190	15.70	34.00	9.74	9,740.0	0.019	188.00	1.47	54.40	119.00
557881	251.00	252.00	1.00	2	VO18241813 - Finalized	17/10/2018	0.001	0.260	20.80	32.90	8.22	12,050.0	0.013	161.00	1.21	46.50	103.00
557882	252.00	253.00	1.00	2	VO18241813 - Finalized	17/10/2018	0.001	0.140	10.80	33.80	8.26	12,150.0	0.019	159.00	1.24	46.80	111.00
557883	253.00	254.00	1.00	2	VO18241813 - Finalized	17/10/2018	0.001	0.130	7.30	33.40	6.89	8,180.0	0.057	123.00	0.81	43.20	198.00
557884	254.00	255.00	1.00	2	VO18241813 - Finalized	17/10/2018	0.001	0.180	7.10	31.80	8.17	5,660.0	0.059	177.00	2.93	46.80	157.00
557885	255.00	256.00	1.00	2	VO18241813 - Finalized	17/10/2018	0.005	0.710	2.60	59.60	10.20	1,240.0	0.095	156.00	20.90	79.20	151.00
557886	256.00	257.00	1.00	2	VO18241813 - Finalized	17/10/2018	0.005	0.860	43.50	98.20	13.20	2,170.0	0.088	218.00	30.60	87.70	147.00
557887	257.00	258.50	1.50	2	VO18241813 - Finalized	17/10/2018	0.002	0.290	65.80	41.40	13.35	3,330.0	0.034	97.00	13.25	36.10	45.00
557888	258.50	260.20	1.70	2	VO18241813 - Finalized	17/10/2018	0.007	0.430	76.90	67.60	12.40	2,300.0	0.046	133.00	19.65	56.20	66.00
557890	260.20	261.00	0.80	2	VO18241813 - Finalized	17/10/2018	0.001	0.240	8.30	53.60	17.35	2,540.0	0.021	8.00	1.62	39.80	14.00
557891	261.00	262.00	1.00	2	VO18241813 - Finalized	17/10/2018	0.001	0.030	3.20	4.90	15.50	3,030.0	0.005	11.00	0.59	11.80	14.00



## Detailed Log Report

### Hole Number OSK-KAN-18-022

Project		Coordinates		Collar			
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-45.00	<b>Collar Az:</b>	100.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 368 249.00	<b>Length:</b>	247.00	<b>Hole Size:</b>	NQ
<b>Start Date:</b>	August 24, 2018	<b>East:</b>	486 701.00	<b>Hole Type:</b>	DDH	<b>Surveyed:</b>	N
<b>Completed Date:</b>	August 28, 2018	<b>Elev:</b>	105.00	<b>Casing Length:</b>	15.00	<b>Pulled:</b>	N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	N	<b>Making Water:</b>	N
<b>Logger 1:</b>	Cynthia Lee			<b>Multi Shot:</b>	Y	<b>Section:</b>	N.A.
<b>Target:</b>	Largest intercept possible, PPR Antiform			<b>Claims Title:</b>	2099220	<b>Township:</b>	Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06	<b>Log Complete:</b>	Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing		

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	18.60	<b>OVB, Overburden</b>					
<b>Comments:</b>							
18.60	39.60	<b>S6, Mudrock</b>	557892	18.60	21.00	2.40	S6 GP; Carb-1 Qtz-1; 10% Po IG BD 2% Py AL VN; 1% I1N CB QZ 1 cm
			557893	21.00	23.00	2.00	S6 GP; Carb-1 Qtz-1; 10% Po IG BD 2% Py AL VN; 1% I1N CB QZ 1 cm
<b>Comments:</b>							
			557894	23.00	25.00	2.00	S6 GP; Carb-1 Qtz-1; 10% Po IG BD 2% Py AL VN; 1% I1N CB QZ 1 cm
			557895	25.00	27.00	2.00	S6 GP; Carb-1 Qtz-1; 10% Po IG BD 2% Py AL VN; 1% I1N CB QZ 1 cm
			557897	27.00	29.00	2.00	S6 GP; Carb-1 Qtz-1; 10% Po IG BD 2% Py AL VN; 1% I1N CB QZ 1 cm
			557898	29.00	31.00	2.00	S6 GP; Carb-1 Qtz-1; 10% Po IG BD 2% Py AL VN; 1% I1N CB QZ 1 cm
			557899	31.00	33.00	2.00	S6 GP; Carb-1 Qtz-1; 10% Po IG BD 2% Py AL VN; 1% I1N CB QZ 1 cm
			557900	33.00	35.00	2.00	S6 GP; Carb-1 Qtz-1; 10% Po IG BD 2% Py AL VN; 1% I1N CB QZ 1 cm
			557901	35.00	37.00	2.00	S6 GP; Carb-1 Qtz-1; 10% Po IG BD 2% Py AL VN; 1% I1N CB QZ 1 cm
			557902	37.00	39.00	2.00	S6 GP; Carb-1 Qtz-1; 10% Po IG BD 2% Py AL VN; 1% I1N CB QZ 1 cm
			557903	39.00	39.60	0.60	S6 GP; Carb-1 Qtz-1; 10% Po IG BD 2% Py AL VN; 1% I1N CB QZ 1 cm

Cynthia Lee, Ing. Jr. OIQ : 5082751

From	To	Lithology	Sample	From	To	Length	Comments
39.60	58.70	S9, Iron formation	555504	39.60	41.00	1.40	S9C Ank; Ank-2 Qtz-3 Chl-1 Ser-1 Carb-1 BL-1; 3% Po AL VN 1% Py AL VN; 10% I1N AK CL 10 cm
<b>Comments:</b>			555505	41.00	42.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 Ser-1 Carb-1 BL-1; 3% Po AL VN 1% Py AL VN; 10% I1N AK CL 10 cm
			555507	42.00	43.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 Ser-1 Carb-1 BL-1; 3% Po AL VN 1% Py AL VN; 10% I1N AK CL 10 cm
			555508	43.00	44.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 Ser-1 Carb-1 BL-1; 3% Po AL VN 1% Py AL VN; 10% I1N AK CL 10 cm
			555509	44.00	45.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 Ser-1 Carb-1 BL-1; 3% Po AL VN 1% Py AL VN; 10% I1N AK CL 10 cm
			555510	45.00	46.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 Ser-1 Carb-1 BL-1; 3% Po AL VN 1% Py AL VN; 10% I1N AK CL 10 cm
			555511	46.00	47.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 Ser-1 Carb-1 BL-1; 3% Po AL VN 1% Py AL VN; 10% I1N AK CL 10 cm
			555512	47.00	48.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 Ser-1 Carb-1 BL-1; 3% Po AL VN 1% Py AL VN; 10% I1N AK CL 10 cm
			555513	48.00	49.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 Ser-1 Carb-1 BL-1; 3% Po AL VN 1% Py AL VN; 10% I1N AK CL 10 cm
			555514	49.00	50.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 Ser-1 Carb-1 BL-1; 3% Po AL VN 1% Py AL VN; 10% I1N AK CL 10 cm
			555515	50.00	51.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 Ser-1 Carb-1 BL-1; 3% Po AL VN 1% Py AL VN; 10% I1N AK CL 10 cm
			555516	51.00	52.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 Ser-1 Carb-1 BL-1; 3% Po AL VN 1% Py AL VN; 10% I1N AK CL 10 cm
			555517	52.00	53.00	1.00	S9C Ank; Ank-2 Qtz-3 Chl-1 Ser-1 Carb-1 BL-1; 3% Po AL VN 1% Py AL VN; 10% I1N AK CL 10 cm
			555518	53.00	54.00	1.00	S9C Ank
			555520	54.00	55.00	1.00	S9C Ank; Ser-3 Qtz-3 Ank-2 BL-2 Carb-2; 3% Po AL VN 1% Py AL VN 5% Po DI BD; 20% I1N AK SR 10 cm
			555521	55.00	56.00	1.00	S9C Ank; Ser-3 Qtz-3 Ank-2 BL-2 Carb-2; 3% Po AL VN 1% Py AL VN 5% Po DI BD; 20% I1N AK SR 10 cm
			555522	56.00	57.00	1.00	S9C Ank; Ser-3 Qtz-3 Ank-2 BL-2 Carb-2; 3% Po AL VN 1% Py AL VN 5% Po DI BD; 20% I1N AK SR 10 cm
			555523	57.00	58.00	1.00	S9C Ank; Ser-3 Qtz-3 Ank-2 BL-2 Carb-2; 3% Po AL VN 1% Py AL VN 5% Po DI BD; 20% I1N AK SR 10 cm
			555524	58.00	58.70	0.70	S9C Ank; Ser-3 Qtz-3 Ank-2 BL-2 Carb-2; 3% Po AL VN 1% Py AL VN 5% Po DI BD; 20% I1N AK SR 10 cm

From	To	Lithology	Sample	From	To	Length	Comments
58.70	121.00	S6g, Grey Shale	557904	58.70	60.00	1.30	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557905	60.00	62.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
<b>Comments:</b>			557906	62.00	64.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557907	64.00	66.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557908	66.00	68.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557910	68.00	70.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557911	70.00	72.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557912	72.00	74.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557913	74.00	76.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557914	76.00	78.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557915	78.00	80.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557917	80.00	82.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557918	82.00	84.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557919	84.00	86.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557920	86.00	88.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557921	88.00	90.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557922	90.00	92.00	2.00	S6g; Qtz-1 BL-1 Chl-1 Carb-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557923	92.00	94.00	2.00	S6g; Qtz-2 Chl-2 Carb-1 Chl-1 BL-1 Ank-1; 3% Po AL VN 0.5% Po AL SCH; 5% I1N AK CL 4 cm
			557924	94.00	96.00	2.00	S6g; Qtz-2 Chl-2 Carb-1 Chl-1 BL-1 Ank-1; 3% Po AL VN 0.5% Po AL SCH; 5% I1N AK CL 4 cm
			557925	96.00	98.00	2.00	S6g
			557926	98.00	100.00	2.00	S6g; BL-1 Chl-1 Qtz-1 Ank-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557927	100.00	102.00	2.00	S6g; BL-1 Chl-1 Qtz-1 Ank-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557928	102.00	104.00	2.00	S6g; BL-1 Chl-1 Qtz-1 Ank-1; 0.5% Po AL SCH 1% Po AL VN; 2% I1N QZ 1 cm
			557930	104.00	106.00	2.00	S6g; 3% Po AL VN 0.5% Po AL SCH; 15% I1N QZ CL 5 cm
			557931	106.00	108.00	2.00	S6g; Qtz-1 Carb-1; 0.5% Po AL VN
			557932	108.00	110.00	2.00	S6g; Qtz-1 Carb-1; 0.5% Po AL VN
			557933	110.00	112.00	2.00	S6g; Qtz-1 Carb-1; 0.5% Po AL VN
			557934	112.00	114.00	2.00	S6g; Qtz-1 Carb-1; 0.5% Po AL VN
			557935	114.00	116.00	2.00	S6g; Qtz-1 Carb-1; 0.5% Po AL VN
		557937	116.00	118.00	2.00	S6g; Qtz-1 Carb-1; 0.5% Po AL VN	
		557938	118.00	120.00	2.00	S6g; Qtz-1 Carb-1; 0.5% Po AL VN	
		557939	120.00	122.00	2.00		
121.00	128.70	I3A, Gabbro	557940	122.00	124.00	2.00	I3A; Carb-2 Qtz-1 Chl-1; 0.5% Cp AL VN 1% Po AL VN; 5% I1N QZ CB 1 cm
			557941	124.00	126.00	2.00	I3A; Carb-2 Qtz-1 Chl-1; 0.5% Cp AL VN 1% Po AL VN; 5% I1N QZ CB 1 cm
<b>Comments:</b>			557942	126.00	128.00	2.00	I3A; Carb-2 Qtz-1 Chl-1; 0.5% Cp AL VN 1% Po AL VN; 5% I1N QZ CB 1 cm
			557943	128.00	128.70	0.70	I3A; Carb-2 Qtz-1 Chl-1; 0.5% Cp AL VN 1% Po AL VN; 5% I1N QZ CB 1 cm

From	To	Lithology	Sample	From	To	Length	Comments
128.70	136.55	S6g, Grey Shale	557944	128.70	131.00	2.30	S6g; Chl-2 Ank-2 Qtz-2; 3% Po AL VN; 10% I1N AK CL 5 cm
			557945	131.00	133.00	2.00	S6g; Chl-2 Ank-2 Qtz-2; 3% Po AL VN; 10% I1N AK CL 5 cm
			557946	133.00	135.00	2.00	S6g; Chl-2 Ank-2 Qtz-2; 3% Po AL VN; 10% I1N AK CL 5 cm
			557947	135.00	136.55	1.55	S6g; Chl-2 Ank-2 Qtz-2; 3% Po AL VN; 10% I1N AK CL 5 cm
136.55	153.85	I3A, Gabbro	557948	136.55	138.00	1.45	I3A Chl-Ank; Ank-4 Qtz-1 Carb-1; 1% Po AL VN; 3% I1N QZ CB 1 cm
			557950	138.00	140.00	2.00	I3A Chl-Ank; Ank-4 Qtz-1 Carb-1; 1% Po AL VN; 3% I1N QZ CB 1 cm
			557951	140.00	142.00	2.00	I3A Chl-Ank; Ank-4 Qtz-1 Carb-1; 1% Po AL VN; 3% I1N QZ CB 1 cm
			557952	142.00	144.00	2.00	I3A Chl-Ank; Ank-4 Qtz-1 Carb-1; 1% Po AL VN; 3% I1N QZ CB 1 cm
			557953	144.00	146.00	2.00	I3A Chl-Ank; Ank-4 Qtz-1 Carb-1; 1% Po AL VN; 3% I1N QZ CB 1 cm
			557954	146.00	148.00	2.00	I3A Chl-Ank; Ank-4 Qtz-1 Carb-1; 1% Po AL VN; 3% I1N QZ CB 1 cm
			557955	148.00	150.00	2.00	I3A Chl-Ank; Ank-4 Qtz-1 Carb-1; 1% Po AL VN; 3% I1N QZ CB 1 cm
			557957	150.00	152.00	2.00	I3A Chl-Ank; Ank-4 Qtz-1 Carb-1; 1% Po AL VN; 3% I1N QZ CB 1 cm
			557958	152.00	153.85	1.85	I3A Chl-Ank; Ank-4 Qtz-1 Carb-1; 1% Po AL VN; 3% I1N QZ CB 1 cm
153.85	161.40	S9, Iron formation	555525	153.85	155.00	1.15	S9; BL-2 Ank-4 Qtz-4 Chl-3 Ser-1; 4% Po AL VN 1% Po DI PER; 10% I1N QZ AK 5 cm
			555527	155.00	156.00	1.00	S9; BL-2 Ank-4 Qtz-4 Chl-3 Ser-1; 4% Po AL VN 1% Po DI PER; 10% I1N QZ AK 5 cm
			555528	156.00	157.00	1.00	S9; BL-2 Ank-4 Qtz-4 Chl-3 Ser-1; 4% Po AL VN 1% Po DI PER; 10% I1N QZ AK 5 cm
			555529	157.00	158.00	1.00	S9; 4% Po AL VN 1% Po DI PER
			555530	158.00	159.00	1.00	S9; Sil-2 Qtz-4 Chl-2 Ser-3; 4% Po AL VN 1% Po DI PER; 10% I1N QZ SR 5 cm
			555531	159.00	160.00	1.00	S9; Sil-2 Qtz-4 Chl-2 Ser-3; 4% Po AL VN 1% Po DI PER; 10% I1N QZ SR 5 cm
			555532	160.00	161.40	1.40	S9; Sil-2 Qtz-4 Chl-2 Ser-3; 4% Po AL VN 1% Po DI PER; 10% I1N QZ SR 5 cm
161.40	180.30	S6, Mudrock	557959	161.40	163.00	1.60	S6 GP; Carb-1 Qtz-1; 5% Po IG BD 0.5% Py AL VN; 1% I1N QZ CB 1 cm
			557960	163.00	165.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po IG BD 0.5% Py AL VN; 1% I1N QZ CB 1 cm
			557961	165.00	167.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po IG BD 0.5% Py AL VN; 1% I1N QZ CB 1 cm
			557962	167.00	169.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po IG BD 0.5% Py AL VN; 1% I1N QZ CB 1 cm
			557963	169.00	171.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po IG BD 0.5% Py AL VN; 3% I1N QZ CB 1 cm
			557964	171.00	173.00	2.00	S6 GP; Carb-1 Qtz-1; 5% Po IG BD 0.5% Py AL VN; 3% I1N QZ CB 1 cm
			557965	173.00	175.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SS BD 0.1% Py SUB BD 1% Po IG BD 0.5% Py AL VN 1% Po AL VN; 3% I1N QZ CB 1 cm
			557966	175.00	177.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SS BD 0.1% Py SUB BD 1% Po IG BD 0.5% Py AL VN 1% Po AL VN; 1% I1N QZ CB 1 cm
			557967	177.00	179.00	2.00	S6 GP; Carb-1 Qtz-1; 3% Py SS BD 0.1% Py SUB BD 1% Po IG BD 0.5% Py AL VN 1% Po AL VN; 1% I1N QZ CB 1 cm
180.30	182.30	S6-S9, Mudrock-Iron formati	555533	180.30	181.00	0.70	S6-S9; Carb-1 Qtz-1; 7% Po IG BD 2% Py SS BD; 0.1% I1N QZ CB 0.5 cm
			555534	181.00	182.30	1.30	S6-S9; Carb-1 Qtz-1; 7% Po IG BD 2% Py SS BD; 0.1% I1N QZ CB 0.5 cm

From	To	Lithology	Sample	From	To	Length	Comments
182.30	185.50	S6, Mudrock	557970	182.30	184.00	1.70	S6 GP; Carb-1 Qtz-1; 8% Po IG BD 0.5% Py SUB BD; 3% I1N QZ CB 1 cm
			557971	184.00	185.50	1.50	S6 GP; Carb-1 Qtz-1; 8% Po IG BD 0.5% Py SUB BD; 3% I1N QZ CB 1 cm
<b>Comments:</b>							
185.50	201.80	I3A, Gabbro	557972	185.50	187.00	1.50	I3A Chl-Ank; Ank-3 Chl-3 Ser-1 Qtz-2; 3% Po AL VN 2% Po DI PER; 5% I1N SR AK
			557973	187.00	189.00	2.00	I3A Chl-Ank; Ank-3 Chl-3 Ser-1 Qtz-2; 3% Po AL VN 2% Po DI PER; 5% I1N SR AK
			557974	189.00	191.00	2.00	I3A Chl-Ank; Ank-3 Chl-3 Ser-1 Qtz-2; 3% Po AL VN 2% Po DI PER; 5% I1N SR AK
			557975	191.00	193.00	2.00	I3A Chl-Ank; Ank-3 Chl-3 Ser-1 Qtz-2; 3% Po AL VN 2% Po DI PER; 5% I1N SR AK
			557977	193.00	195.00	2.00	I3A Chl-Ank; Ank-3 Chl-3 Ser-1 Qtz-2; 3% Po AL VN 2% Po DI PER; 5% I1N SR AK
			557978	195.00	197.00	2.00	I3A Chl-Ank; Ank-3 Chl-3 Ser-1 Qtz-2; 3% Po AL VN 2% Po DI PER; 5% I1N SR AK
			557979	197.00	198.10	1.10	I3A Chl-Ank; Ank-3 Chl-3 Ser-1 Qtz-2; 3% Po AL VN 2% Po DI PER; 5% I1N SR AK
			557980	198.10	200.00	1.90	I3A Chl-Ank; Ser-2 Ank-1 Qtz-4 Chl-4 Ank-2; 1% Po AL VN; 20% I1N AK CL 5 cm
			557981	200.00	201.80	1.80	I3A Chl-Ank; 1% Po AL VN; 20% I1N AK CL 5 cm
			201.80	208.90	S6, Mudrock	557982	201.80
557983	202.60	203.75				1.15	S6g; Ank-3 Chl-3; 5% I1N QZ AK 5 cm
555535	203.75	205.00				1.25	S6g; Ank-3 Chl-3; 7% Po IG BD; 5% I1N QZ AK 5 cm
555536	205.00	205.85				0.85	S6g; Ank-3 Chl-3; 7% Po IG BD; 5% I1N QZ AK 5 cm
555537	205.85	206.95				1.10	S6g; Ank-3 Chl-3; 7% Po IG BD; 5% I1N QZ AK 5 cm
555538	206.95	208.00				1.05	S6g; 7% Po IG BD
555540	208.00	208.90				0.90	S6g; 7% Po IG BD; 3% I1N QZ 1 cm

From	To	Lithology	Sample	From	To	Length	Comments	
208.90	247.00	S9C, Carbonated iron form	555541	208.90	210.00	1.10	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			557984	210.00	211.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
<b>Comments:</b>			557985	211.00	212.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			557986	212.00	213.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			557987	213.00	214.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			557988	214.00	215.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			557990	215.00	216.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			557991	216.00	217.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			557992	217.00	218.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			557993	218.00	219.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			557994	219.00	220.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			557995	220.00	221.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			557997	221.00	222.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			557998	222.00	223.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			557999	223.00	224.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			558000	224.00	225.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			558001	225.00	226.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			558002	226.00	227.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			558003	227.00	228.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			558004	228.00	229.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			558005	229.00	230.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			558006	230.00	231.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
			558007	231.00	232.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm	
		558008	232.00	233.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm		
		558010	233.00	234.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm		
		558011	234.00	235.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm		
		558012	235.00	236.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm		
		558013	236.00	237.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm		
		558014	237.00	238.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm		
		558015	238.00	239.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm		
		558017	239.00	240.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm		
		558018	240.00	241.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm		
		558019	241.00	242.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm		
		558020	242.00	243.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm		
		558021	243.00	244.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm		
		558022	244.00	246.00	2.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm		
		558023	246.00	247.00	1.00	S9C Sid; 0.1% Po DI VN 0.1% Py DI VN; 2% I1N QZ AK 2 cm		



## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
21.00	340.90	-44.30	FM	Test Non-OK	
24.00	323.10	-44.60	FM	Test Non-OK	
27.00	355.50	-44.00	FM	Test Non-OK	
30.00	87.00	-43.60	FM	Test Non-OK	
33.00	92.00	-44.20	FM	Test Non-OK	
36.00	96.00	-44.60	FM	Test OK-Accept	
39.00	96.00	-44.30	FM	Test OK-Accept	
42.00	95.80	-44.30	FM	Test OK-Accept	
45.00	98.10	-44.30	FM	Test Non-OK	
48.00	100.70	-44.30	FM	Test Non-OK	
51.00	94.50	-44.50	FM	Test Non-OK	
54.00	95.70	-44.60	FM	Test OK-Accept	
57.00	95.90	-44.70	FM	Test OK-Accept	
60.00	95.70	-44.70	FM	Test OK-Accept	
63.00	103.80	-47.10	FM	Test Non-OK	
66.00	95.40	-44.90	FM	Test OK-Accept	
69.00	95.60	-45.00	FM	Test OK-Accept	
72.00	91.50	-44.30	FM	Test Non-OK	
75.00	95.40	-45.10	FM	Test OK-Accept	
78.00	95.70	-45.00	FM	Test OK-Accept	
81.00	97.40	-45.20	FM	Test Non-OK	
84.00	96.40	-44.90	FM	Test Non-OK	
87.00	96.70	-44.90	FM	Test OK-Accept	
90.00	98.10	-44.80	FM	Test Non-OK	
93.00	97.40	-44.80	FM	Test OK-Accept	
96.00	97.10	-44.80	FM	Test OK-Accept	
99.00	97.50	-44.80	FM	Test OK-Accept	
102.00	97.50	-44.70	FM	Test OK-Accept	
105.00	97.60	-44.70	FM	Test OK-Accept	
108.00	97.60	-44.70	FM	Test OK-Accept	
111.00	97.80	-44.80	FM	Test OK-Accept	
114.00	97.70	-44.80	FM	Test OK-Accept	
117.00	97.80	-44.80	FM	Test OK-Accept	
120.00	98.00	-44.90	FM	Test OK-Accept	
123.00	97.90	-44.90	FM	Test OK-Accept	
126.00	97.70	-44.90	FM	Test OK-Accept	
129.00	98.10	-44.90	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
132.00	97.80	-44.90	FM	Test OK-Accept	
135.00	98.10	-45.00	FM	Test OK-Accept	
138.00	98.00	-45.00	FM	Test OK-Accept	
141.00	98.40	-45.00	FM	Test OK-Accept	
144.00	98.70	-45.10	FM	Test OK-Accept	
147.00	98.90	-45.10	FM	Test OK-Accept	
150.00	98.80	-45.10	FM	Test OK-Accept	
153.00	98.90	-45.10	FM	Test OK-Accept	
156.00	98.80	-45.10	FM	Test OK-Accept	
159.00	98.70	-45.10	FM	Test OK-Accept	
162.00	99.50	-45.00	FM	Test Non-OK	
165.00	96.60	-45.00	FM	Test Non-OK	
168.00	99.10	-45.00	FM	Test OK-Accept	
171.00	97.20	-44.60	FM	Test Non-OK	
174.00	98.90	-45.10	FM	Test OK-Accept	
177.00	99.40	-45.20	FM	Test OK-Accept	
180.00	98.80	-45.20	FM	Test Non-OK	
183.00	99.90	-45.30	FM	Test OK-Accept	
186.00	99.60	-45.40	FM	Test OK-Accept	
189.00	99.80	-45.40	FM	Test OK-Accept	
192.00	100.20	-45.30	FM	Test OK-Accept	
195.00	100.30	-45.10	FM	Test OK-Accept	
198.00	100.10	-45.40	FM	Test OK-Accept	
201.00	100.20	-45.60	FM	Test OK-Accept	
204.00	100.80	-45.50	FM	Test OK-Accept	
207.00	100.50	-45.20	FM	Test OK-Accept	
210.00	100.20	-45.10	FM	Test OK-Accept	
213.00	100.40	-44.90	FM	Test OK-Accept	
216.00	100.50	-45.00	FM	Test OK-Accept	
219.00	100.60	-45.00	FM	Test OK-Accept	
222.00	100.80	-45.10	FM	Test OK-Accept	
225.00	100.80	-45.10	FM	Test OK-Accept	
228.00	101.10	-45.20	FM	Test OK-Accept	
231.00	101.40	-45.10	FM	Test OK-Accept	
234.00	101.30	-45.20	FM	Test OK-Accept	
237.00	101.30	-45.20	FM	Test OK-Accept	
240.00	101.60	-45.20	FM	Test OK-Accept	
243.00	101.70	-45.20	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
246.00	101.60	-45.20	FM	Test OK-Accept	
249.00	101.80	-45.30	FM	Test OK-Accept	

## Lithology Data

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
18.60	39.60	S6	BD	HJ			S6 GP			BK		2	Aph		72.00	SHP	
39.60	58.70	S9	IU	BD	HK		S9C Ank	5.00	Sulphide	GL	VD	3	FG		37.00	SHP	Contains 5% sulfidized chert bands, decimetric, located mainly at contact with underlying grey shale.
58.70	121.00	S6g	HJ	BD	RU	PI	S6g			GM	GL	2	Aph		10.00	SHP	locally phenocrystic with mm chloritoides? Lower contact is sub-parallel to drillcore, and contact is over 1 meter from 120 to 121 metres, at 10CA
121.00	128.70	I3A	CS	HK	IU		I3A			GL	VL	2	Aph		31.00	SHP	
128.70	136.55	S6g	HJ	CS	BD	IU	S6g			GM	GD	2	Aph		26.00	VN	injected by 10% decimetric qz-ak-cl-po veins
136.55	153.85	I3A	PI	MA	FO		I3A Chl-Ank			VL	VM	2	MG		39.00	VN	massive to weakly foliated, with 20% mm ankerite phenocrystals, 1% chloritoides mm, shearing and schistosity strong at contact with underlying iron formation
153.85	161.40	S9	HK	IU			S9	5.00	Sulphide	GL	BG	3	FG				10-15% dismembered chert and quartz veins, weakly bleached
161.40	180.30	S6	BD	HJ	CS		S6 GP			BK		1	Aph		40.00	SHP	lower contact sub-concordant to bedding at 40CA
180.30	182.30	S6-S9	BD	RU	HJ		S6-S9			BK		2	Aph				banded with sulfidized chert bands, cm. strong Fe and Mn uXRF values
182.30	185.50	S6	BD	APH	HJ		S6 GP			BK		2	Aph		45.00	VN	
185.50	201.80	I3A	HK	PI	CS		I3A Chl-Ank			VL	GL	2	FG		45.00	DIF	
201.80	208.90	S6	HK	HG	BD	FO	S6g			GD	VD	2	Aph				Intercalated transitionnel unit with pluridecimeteric gabbro, grey shale and black shale.
208.90	247.00	S9C	HK	BD			S9C Sid	20.00	Silica	GM	GN	3	FG				brecciated chert beds clast in S0

Mineralization Data																		
From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3	
18.60	39.60		Po	10.00	IG	BD		Py	2.00	AL	VN							
39.60	53.40		Po	3.00	AL	VN		Py	1.00	AL	VN							
53.40	58.70		Po	3.00	AL	VN		Py	1.00	AL	VN		Po	5.00	DI	BD		
58.70	92.00		Po	0.50	AL	SCH		Po	1.00	AL	VN							
92.00	97.40		Po	3.00	AL	VN		Po	0.50	AL	SCH							
97.40	104.30		Po	0.50	AL	SCH		Po	1.00	AL	VN							
104.30	105.80		Po	3.00	AL	VN		Po	0.50	AL	SCH							
105.80	121.00		Po	0.50	AL	VN												
121.00	128.70		Cp	0.50	AL	VN		Po	1.00	AL	VN							
128.70	136.55		Po	3.00	AL	VN												
136.55	153.85		Po	1.00	AL	VN												
153.85	161.40		Po	4.00	AL	VN		Po	1.00	DI	PER	in sulfidized chert fragments						
161.40	173.00		Po	5.00	IG	BD		Py	0.50	AL	VN							
173.00	180.30		Py	3.00	SS	BD		Py	0.10	SUB	BD		Po	1.00	IG	BD		
180.30	182.30		Po	7.00	IG	BD		Py	2.00	SS	BD							
182.30	185.50		Po	8.00	IG	BD		Py	0.50	SUB	BD	py in subidio grains + clusters						
185.50	198.10		Po	3.00	AL	VN		Po	2.00	DI	PER							
198.10	201.80		Po	1.00	AL	VN												
201.80	203.60		Po	0.10	AL	VN												
203.60	208.90		Po	7.00	IG	BD												
208.90	247.00		Po	0.10	DI	VN		Py	0.10	DI	VN							

Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
18.60	39.60	Carb	1	VN	Qtz	1	VN				
39.60	53.40	Ank	2	VN	Qtz	3	VN	Chl	1	VN	
53.40	58.70	Ser	3	VN	Qtz	3	VN	Ank	2	VN	
58.70	92.00	Qtz	1	VN	BL	1	RU	Chl	1	RU	
92.00	97.40	Qtz	2	VN	Chl	2	VN	Carb	1	VN	
97.40	104.30	BL	1	RU	Chl	1	DI	Qtz	1	VN	
104.30	105.80	Qtz	3	VN	Chl	3	VN	BL	2	VN	
105.80	121.00	Qtz	1	VN	Carb	1	VN				
121.00	128.70	Carb	2	VN	Qtz	1	VN	Chl	1	PEN	
128.70	136.55	Chl	2	VN	Ank	2	VN	Qtz	2	VN	
136.55	153.85	Ank	4	DI	Qtz	1	VN	Carb	1	VN	
153.85	157.80	BL	2	PEN	Ank	4	VN	Qtz	4	VN	
157.80	161.40	Sil	2	PEN	Qtz	4	VN	Chl	2	VN	
161.40	185.50	Carb	1	VN	Qtz	1	VN				
185.50	198.10	Ank	3	DI	Chl	3	VN	Ser	1	VN	
198.10	201.50	Ser	2	VN	Ank	1	DI	Qtz	4	VN	
201.50	201.80	Sil	2	PEN	Ank	1	DI				
201.80	207.00	Ank	3	VN	Chl	3	VN				

## Vein Data

From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
18.60	39.60	1.00	1.00	I1N	UNK	Veinlet <5cm	CB	20.00	QZ	80.00						Py	2.00	Po	5.00	
39.60	53.40	10.00	10.00	I1N	UNK	Vein >5cm	AK	5.00	CL	1.00	QZ	94.00				Po	3.00	Py	1.00	
53.40	58.70	20.00	10.00	I1N	UNK	Vein >5cm	AK	3.00	SR	8.00	CL	2.00				Po	3.00	Py	1.00	quartz = 87%
58.70	92.00	2.00	1.00	I1N	EXT VN	Veinlet <5cm	QZ	100.00												centimetric tension veins
92.00	97.40	5.00	4.00	I1N	UNK	Veinlet <5cm	AK	50.00	CL	2.00	SR	2.00				Po	3.00			5% 3-5cm veinlets, with quartz-ankerite-chlorite-sericite and pyrrhotite
97.40	104.30	2.00	1.00	I1N	EXT VN	Veinlet <5cm	QZ	100.00												
104.30	105.80	15.00	5.00	I1N	UNK	Vein >5cm	QZ	88.00	CL	10.00	AK	2.00								
121.00	128.70	5.00	1.00	I1N	UNK	Veinlet <5cm	QZ	80.00	CB	20.00										
128.70	136.55	10.00	5.00	I1N	UNK	Vein >5cm	AK	8.00	CL	3.00	QZ	89.00				Po	3.00			
136.55	153.85	3.00	1.00	I1N	UNK	Veinlet <5cm	QZ	80.00	CB	20.00						Po	2.00			
153.85	157.80	10.00	5.00	I1N	UNK	Vein >5cm	QZ	85.00	AK	10.00	CL	5.00				Po	4.00			
157.80	161.40	10.00	5.00	I1N	UNK	Vein >5cm	QZ	87.00	SR	10.00	CL	3.00				Po	4.00			
161.40	169.00	1.00	1.00	I1N	UNK	Veinlet <5cm	QZ	80.00	CB	20.00						Po	0.10			
169.00	175.00	3.00	1.00	I1N	UNK	Veinlet <5cm	QZ	80.00	CB	5.00						Po	1.00	Py	1.00	
175.00	180.30	1.00	1.00	I1N	UNK	Veinlet <5cm	QZ	80.00	CB	20.00						Po	0.10			
180.30	182.30	0.10	0.50	I1N	UNK	Veinlet <5cm	QZ	70.00	CB	30.00										
182.30	185.50	3.00	1.00	I1N	UNK	Veinlet <5cm	QZ	80.00	CB	20.00						Po	2.00			
185.50	198.10	5.00		I1N	UNK	Vein >5cm	SR	3.00	AK	3.00	CL	2.00								quartz=92%
198.10	201.80	20.00	5.00	I1N	UNK	Vein >5cm	AK	8.00	CL	10.00	SR	3.00				Po	2.00			
201.80	207.00	5.00	5.00	I1N	UNK	Vein >5cm	QZ	90.00	AK	7.00	CL	3.00				Po	3.00			3-5% sericite
207.00	208.90	3.00	1.00	I1N	UNK	Veinlet <5cm	QZ	100.00												
208.90	247.00	2.00	2.00	I1N	UNK	Veinlet <5cm	QZ	100.00	AK	0.10										

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments

## Oriented Structure Data

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
21.90	S0		10.00	233.00	334.97	-44.40	-56.98	314.69	0.00	44.69			
25.30	S0		14.00	201.00	344.70	-44.20	-35.11	291.90	0.00	21.90			
33.60	S0		15.00	18.00	96.00	-44.55	-61.76	25.80	0.00	115.80			
34.90	S0		39.00	1.00	96.00	-44.45	-83.45	6.78	0.00	96.78			
36.20	CNT		72.00										
46.20	VN		40.00	128.00	94.70	-44.52	-38.10	262.76	0.00	352.76			qz-chl-po vein
53.30	VN		56.00	334.00	95.73	-44.70	-76.94	171.16	0.00	261.16			
57.80	S0		54.00										
58.70	CNT		37.00										
63.20	VN		56.00										
63.50	S2		34.00	340.00	92.18	-44.42	-80.50	345.48	0.00	75.48			
64.30	VN		48.00	351.00	92.80	-44.57	-87.10	176.78	0.00	266.78			
68.50	S0		11.00	360.00	95.65	-45.02	-56.02	5.65	0.00	95.65			
71.00	VN		59.00	18.00	97.12	-45.17	-74.78	196.61	0.00	286.61			
76.50	VN		53.00	13.00	96.93	-44.88	-81.48	194.80	0.00	284.80			
77.90	VN		66.00	20.00	97.63	-44.83	-68.10	196.26	0.00	286.26			
79.40	S0		11.00	344.00	97.87	-44.80	-57.65	349.19	0.00	79.19			
93.10	VN		58.00	220.00	97.60	-44.70	-27.74	140.57	0.00	230.57			
93.50	VN		20.00	198.00	97.60	-44.70	-28.86	44.59	0.00	134.59			
95.80	VN		24.00										
106.50	VN		7.00	344.00	97.87	-44.90	-53.86	348.06	0.00	78.06			
106.80	S2		37.00	322.00	97.83	-44.90	-88.80	338.37	0.00	68.37			
110.50	S0		13.00										
118.40	S0		14.00	344.00	98.02	-45.00	-60.76	350.17	0.00	80.17			
127.80	CNT		30.00	185.00	98.83	-45.10	-15.60	25.13	0.00	115.13			
130.40	VN		20.00										
131.60	S0		28.00										
134.80	VN		50.00	153.00	98.75	-45.10	-18.76	253.92	0.00	343.92			
136.55	CNT		26.00	140.00	98.97	-45.07	-37.19	296.07	0.00	26.07			
144.60	S0		19.00	159.00	98.15	-44.80	-31.16	327.24	0.00	57.24			
152.90	S0		39.00	170.00	99.00	-45.20	-9.66	315.44	0.00	45.44			
162.10	S0		37.00	152.00	100.00	-45.35	-22.53	291.86	0.00	21.86			
165.40	S0		33.00	172.00	100.27	-45.17	-13.64	340.61	0.00	70.61			
165.90			33.00	170.00	100.28	-45.13	-14.38	334.38	0.00	64.38	70.00	FAXIS	



Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
165.90	AxialPlane		33.00	170.00	100.28	-45.13	-14.38	334.38	0.00	64.38			
166.50	S2		50.00	266.00	100.27	-45.15	-54.92	138.68	0.00	228.68			
169.50	S0		37.00	182.00	100.13	-45.47	-8.60	20.88	0.00	110.88			
172.50			68.00	263.00	100.50	-45.55	-46.06	159.41	0.00	249.41	154.00	FAXIS	
172.50	AxialPlane		68.00	263.00	100.50	-45.55	-46.06	159.41	0.00	249.41			
174.20	S2		31.00	338.00	100.70	-45.40	-78.97	351.60	0.00	81.60			
180.30	CNT		40.00	198.00	100.33	-44.97	-14.14	86.09	0.00	176.09			
181.00	S0		40.00	168.00	100.37	-44.93	-10.12	305.34	0.00	35.34			
182.30	CNT		74.00	180.00	100.45	-44.95	-29.05	190.45	0.00	280.45			
183.10	S0		70.00	37.00	100.48	-44.98	-61.90	203.98	0.00	293.98			
190.30	VN		18.00	326.00	100.80	-45.10	-70.27	336.40	0.00	66.40			qz+ak+po vein
194.10	S2		64.00	158.00	101.20	-45.17	-22.49	216.62	0.00	306.62			
201.60	S0		48.00	197.00	101.40	-45.20	-11.98	120.98	0.00	210.98			
201.80	CNT		42.00	190.00	101.40	-45.20	-7.91	81.07	0.00	171.07			
207.30	S0		20.00										
212.30	S0		31.00										
220.90	S0		18.00										
224.00	S0		25.00										
226.30	S0		19.00	132.00	101.80	-45.30	-47.43	299.24	0.00	29.24			
229.80	S0		25.00	139.00	101.80	-45.30	-38.60	299.43	0.00	29.43			
233.80	S0		22.00										
238.80	S0		20.00	134.00	101.80	-45.30	-45.39	300.09	0.00	30.09			
242.60	S0		26.00										
246.50	S0		19.00										

Sample Data - ASSAY

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557892	18.60	21.00	2.40	2	VO18241813 - Finalized	17/10/2018	0.055	1.740	8.70	283.00	26.10	1,420.0	0.287	103.00	16.10	173.00	1 040.00
557893	21.00	23.00	2.00	2	VO18241813 - Finalized	17/10/2018	0.062	1.940	8.80	300.00	25.30	140.0	0.316	123.00	13.15	164.00	1 570.00
557894	23.00	25.00	2.00	2	VO18241813 - Finalized	17/10/2018	0.065	2.370	6.40	314.00	27.30	115.0	0.310	140.00	15.10	172.50	1 420.00
557895	25.00	27.00	2.00	2	VO18241813 - Finalized	17/10/2018	0.083	2.180	2.60	377.00	31.80	235.0	0.418	119.00	22.20	193.50	2 290.00
557897	27.00	29.00	2.00	2	VO18241813 - Finalized	17/10/2018	0.075	1.950	0.30	252.00	26.40	243.0	1.035	83.00	54.30	156.50	7 960.00
557898	29.00	31.00	2.00	2	VO18241813 - Finalized	17/10/2018	0.041	1.590	0.10	263.00	26.30	67.0	0.245	141.00	14.05	158.00	992.00
557899	31.00	33.00	2.00	2	VO18241813 - Finalized	17/10/2018	0.061	1.760	0.30	312.00	29.10	77.0	0.277	110.00	11.10	168.00	985.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557900	33.00	35.00	2.00	2	VO18241813 - Finalized	17/10/2018	0.046	1.400	0.70	269.00	23.60	241.0	0.390	114.00	18.00	135.00	2 380.00
557901	35.00	37.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.038	1.590	3.30	303.00	28.70	149.0	0.245	108.00	13.70	156.50	1 160.00
557902	37.00	39.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.030	1.360	0.80	353.00	32.30	519.0	0.149	93.00	13.25	172.50	745.00
557903	39.00	39.60	0.60	2	VO18244262 - Finalized	19/10/2018	0.015	0.900	0.50	198.00	22.50	756.0	0.108	101.00	16.10	102.50	272.00
555504	39.60	41.00	1.40	2	VO18241773 - Finalized	10/10/2018	0.006	0.380	12.60	104.50	20.90	6,130.0	0.015	34.00	2.30	41.60	55.00
555505	41.00	42.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.003	0.220	53.40	47.20	26.70	6,530.0	0.010	67.00	3.22	17.50	73.00
555507	42.00	43.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.002	0.200	1.60	12.30	16.40	4,630.0	0.003	13.00	1.19	6.20	22.00
555508	43.00	44.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.001	0.020	1.50	5.00	15.75	4,720.0	0.003	13.00	0.18	1.90	27.00
555509	44.00	45.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.001	0.040	0.60	5.00	19.95	5,720.0	0.003	15.00	0.18	1.80	37.00
555510	45.00	46.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.001	0.040	0.90	5.60	13.60	4,040.0	0.003	11.00	0.24	2.30	28.00
555511	46.00	47.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.001	0.050	1.50	12.40	12.75	4,050.0	0.007	10.00	0.41	5.20	26.00
555512	47.00	48.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.005	0.020	0.60	4.00	15.70	4,720.0	0.003	9.00	0.17	1.70	28.00
555513	48.00	49.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.001	0.010	0.90	2.80	20.90	5,860.0	0.003	7.00	0.24	2.90	24.00
555514	49.00	50.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.001	0.020	0.80	2.80	15.10	4,650.0	0.003	21.00	0.43	3.20	29.00
555515	50.00	51.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.003	0.020	2.40	3.90	15.45	4,990.0	0.003	23.00	0.17	3.20	47.00
555516	51.00	52.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.001	0.100	118.00	20.00	15.65	5,120.0	0.010	25.00	0.30	8.60	50.00
555517	52.00	53.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.005	0.080	50.50	17.20	15.60	5,330.0	0.009	18.00	0.35	5.90	45.00
555518	53.00	54.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.028	0.230	15.40	43.90	11.70	4,150.0	0.009	13.00	0.16	10.90	48.00
555520	54.00	55.00	1.00	2	VO18241773 - Finalized	10/10/2018	0.008	0.470	6.20	175.50	20.70	5,110.0	0.017	19.00	0.26	84.60	61.00
555521	55.00	56.00	1.00	2	VO18244255 - Finalized	09/10/2018	0.001	0.210	53.40	111.00	8.77	957.0	0.003	317.00	0.25	73.70	152.00
555522	56.00	57.00	1.00	2	VO18244255 - Finalized	09/10/2018	0.001	0.140	2.90	44.50	8.36	957.0	0.020	183.00	0.97	33.50	134.00
555523	57.00	58.00	1.00	2	VO18244255 - Finalized	09/10/2018	0.001	0.160	0.50	43.30	9.30	722.0	0.022	232.00	2.03	34.50	201.00
555524	58.00	58.70	0.70	2	VO18244255 - Finalized	09/10/2018	0.001	0.310	1.50	94.00	12.10	616.0	0.023	154.00	2.05	46.30	220.00
557904	58.70	60.00	1.30	2	VO18244262 - Finalized	19/10/2018	0.001	0.120	3.00	22.40	7.89	980.0	0.011	111.00	3.72	33.60	135.00
557905	60.00	62.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.004	0.100	23.10	48.10	9.54	1,510.0	0.009	101.00	1.43	30.40	225.00
557906	62.00	64.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.007	0.150	7.00	79.80	10.75	1,060.0	0.019	136.00	1.21	39.10	295.00
557907	64.00	66.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.013	0.200	0.50	96.40	11.15	782.0	0.023	167.00	1.90	49.50	233.00
557908	66.00	68.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.007	0.150	2.10	88.60	12.35	1,450.0	0.018	122.00	1.25	34.20	327.00
557910	68.00	70.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.004	0.110	16.90	65.50	8.32	1,060.0	0.026	108.00	0.72	31.70	299.00
557911	70.00	72.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.012	0.250	1.30	103.00	8.24	459.0	0.018	223.00	2.79	55.20	232.00
557912	72.00	74.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.009	0.210	1.40	86.60	7.17	607.0	0.012	193.00	2.39	48.10	164.00
557913	74.00	76.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.010	0.210	1.30	87.80	7.36	498.0	0.019	216.00	2.40	51.80	262.00
557914	76.00	78.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.009	0.260	4.10	104.50	7.32	305.0	0.012	235.00	4.27	58.90	127.00
557915	78.00	80.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.002	0.150	10.10	73.00	8.66	1,070.0	0.007	111.00	0.97	35.00	215.00
557917	80.00	82.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.002	0.140	1.30	67.60	8.93	1,300.0	0.013	114.00	19.80	34.30	263.00
557918	82.00	84.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.001	0.130	0.70	72.30	11.40	2,270.0	0.011	98.00	2.09	29.60	282.00
557919	84.00	86.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.001	0.060	0.20	19.60	6.31	1,610.0	0.005	87.00	0.55	22.10	158.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557920	86.00	88.00	2.00	2	VO18244262 - Finalized	19/10/2018	0.003	0.140	0.60	39.60	5.59	379.0	0.008	137.00	3.65	44.70	128.00
557921	88.00	90.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.005	0.220	2.40	55.90	10.80	1,750.0	0.018	179.00	1.70	47.60	189.00
557922	90.00	92.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.003	0.280	0.10	60.90	10.85	1,260.0	0.014	203.00	1.97	54.00	168.00
557923	92.00	94.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.001	0.120	0.20	31.80	5.86	614.0	0.007	129.00	1.83	32.80	111.00
557924	94.00	96.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.001	0.170	0.70	66.20	10.35	1,580.0	0.016	106.00	8.33	39.90	253.00
557925	96.00	98.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.001	0.270	6.70	93.90	8.81	1,320.0	0.016	140.00	27.00	54.80	187.00
557926	98.00	100.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.001	0.130	29.20	52.10	7.87	956.0	0.010	107.00	2.08	30.60	218.00
557927	100.00	102.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.001	0.190	109.50	67.20	8.00	1,280.0	0.008	178.00	5.57	42.50	182.00
557928	102.00	104.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.001	0.380	0.20	164.50	17.15	1,940.0	0.016	121.00	5.45	61.20	359.00
557930	104.00	106.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.001	0.320	8.10	139.00	15.70	1,530.0	0.017	142.00	2.96	55.30	375.00
557931	106.00	108.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.002	0.310	0.60	78.90	7.37	294.0	0.006	219.00	2.37	50.50	157.00
557932	108.00	110.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.001	0.280	2.50	73.80	8.47	588.0	0.009	186.00	1.84	45.20	236.00
557933	110.00	112.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.001	0.280	79.20	84.40	9.21	502.0	0.015	215.00	4.34	51.10	300.00
557934	112.00	114.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.003	0.350	7.00	72.60	8.12	438.0	0.019	275.00	4.78	58.90	336.00
557935	114.00	116.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.002	0.330	2.20	60.60	7.07	326.0	0.012	271.00	4.54	52.10	246.00
557937	116.00	118.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.005	0.310	1.90	72.30	7.49	343.0	0.008	263.00	5.22	50.00	167.00
557938	118.00	120.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.002	0.230	0.10	91.80	7.09	229.0	0.006	272.00	5.29	53.00	135.00
557939	120.00	122.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.001	0.070	7.50	55.00	7.01	587.0	0.010	252.00	4.02	52.20	210.00
557940	122.00	124.00	2.00	2	VO18244258 - Finalized	13/10/2018	0.001	0.090	66.70	35.30	8.81	1,400.0	0.003	333.00	0.26	76.20	195.00
557941	124.00	126.00	2.00	2	VO18244253 - Finalized	13/10/2018	0.004	0.540	16.20	186.00	23.40	2,940.0	0.037	44.00	1.14	110.00	102.00
557942	126.00	128.00	2.00	2	VO18244253 - Finalized	13/10/2018	0.001	0.170	55.40	87.80	9.08	612.0	0.003	336.00	0.28	81.00	176.00
557943	128.00	128.70	0.70	2	VO18244253 - Finalized	13/10/2018	0.002	0.060	73.20	7.70	9.74	658.0	0.003	340.00	0.66	118.50	278.00
557944	128.70	131.00	2.30	2	VO18244253 - Finalized	13/10/2018	0.007	0.150	5.90	120.00	7.11	258.0	0.011	361.00	8.81	62.00	195.00
557945	131.00	133.00	2.00	2	VO18244253 - Finalized	13/10/2018	0.014	0.150	10.40	80.70	7.93	296.0	0.012	296.00	4.36	58.20	241.00
557946	133.00	135.00	2.00	2	VO18244253 - Finalized	13/10/2018	0.009	0.300	1.50	92.10	7.38	189.0	0.009	268.00	5.20	57.10	172.00
557947	135.00	136.55	1.55	2	VO18244253 - Finalized	13/10/2018	0.004	0.180	1.90	209.00	8.34	328.0	0.003	222.00	4.65	57.90	137.00
557948	136.55	138.00	1.45	2	VO18244253 - Finalized	13/10/2018	0.004	0.260	81.90	143.00	8.24	1,180.0	0.003	317.00	0.23	125.50	113.00
557950	138.00	140.00	2.00	2	VO18244253 - Finalized	13/10/2018	0.004	0.150	72.70	98.50	8.65	1,200.0	0.003	318.00	0.35	112.50	128.00
557951	140.00	142.00	2.00	2	VO18244253 - Finalized	13/10/2018	0.001	0.130	13.20	248.00	12.55	640.0	0.003	345.00	1.19	90.90	200.00
557952	142.00	144.00	2.00	2	VO18244253 - Finalized	13/10/2018	0.003	0.130	70.50	131.00	8.68	1,070.0	0.003	325.00	0.22	116.00	121.00
557953	144.00	146.00	2.00	2	VO18244253 - Finalized	13/10/2018	0.004	0.170	47.90	169.50	8.86	1,180.0	0.003	316.00	0.32	121.50	102.00
557954	146.00	148.00	2.00	2	VO18244253 - Finalized	13/10/2018	0.002	0.120	46.20	120.00	8.65	1,140.0	0.003	316.00	0.24	129.50	96.00
557955	148.00	150.00	2.00	2	VO18244253 - Finalized	13/10/2018	0.003	0.130	67.20	170.50	9.49	1,190.0	0.005	326.00	0.27	135.50	108.00
557957	150.00	152.00	2.00	2	VO18244253 - Finalized	13/10/2018	0.002	0.130	71.40	173.50	8.75	1,160.0	0.005	325.00	0.28	130.00	104.00
557958	152.00	153.85	1.85	2	VO18244253 - Finalized	13/10/2018	0.001	0.050	55.50	121.00	9.83	1,320.0	0.009	322.00	0.20	127.00	159.00
555525	153.85	155.00	1.15	2	VO18244255 - Finalized	09/10/2018	0.001	0.020	19.50	32.80	7.30	2,360.0	0.014	159.00	0.17	63.40	92.00
555527	155.00	156.00	1.00	2	VO18244255 - Finalized	09/10/2018	0.001	0.070	0.10	27.50	10.30	3,080.0	0.009	78.00	0.82	10.70	32.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
555528	156.00	157.00	1.00	2	VO18244255 - Finalized	09/10/2018	0.001	0.060	0.10	10.80	14.60	4,790.0	0.003	38.00	0.58	3.30	28.00
555529	157.00	158.00	1.00	2	VO18244255 - Finalized	09/10/2018	0.001	0.340	5.80	96.80	13.25	4,760.0	0.015	32.00	0.45	31.70	67.00
555530	158.00	159.00	1.00	2	VO18244255 - Finalized	09/10/2018	0.001	0.720	0.80	207.00	16.35	1,820.0	0.023	118.00	17.40	80.60	109.00
555531	159.00	160.00	1.00	2	VO18244255 - Finalized	09/10/2018	0.001	0.740	1.00	187.50	18.80	297.0	0.025	151.00	7.62	121.00	73.00
555532	160.00	161.40	1.40	2	VO18244255 - Finalized	09/10/2018	0.001	0.450	0.80	210.00	15.80	3,590.0	0.019	113.00	3.00	68.80	156.00
557959	161.40	163.00	1.60	2	VO18244253 - Finalized	13/10/2018	0.079	1.810	93.60	276.00	23.40	257.0	0.217	185.00	20.30	145.00	1 120.00
557960	163.00	165.00	2.00	2	VO18244253 - Finalized	13/10/2018	0.053	1.300	66.60	262.00	20.80	804.0	0.205	144.00	12.50	147.00	827.00
557961	165.00	167.00	2.00	2	VO18244254 - Finalized	17/10/2018	0.065	1.050	75.00	203.00	17.50	279.0	0.204	171.00	13.65	140.00	1 070.00
557962	167.00	169.00	2.00	2	VO18244254 - Finalized	17/10/2018	0.124	1.640	139.00	123.00	19.05	377.0	0.376	176.00	15.80	122.50	919.00
557963	169.00	171.00	2.00	2	VO18244254 - Finalized	17/10/2018	0.020	0.720	19.80	230.00	15.95	791.0	0.153	185.00	14.10	140.50	615.00
557964	171.00	173.00	2.00	2	VO18244254 - Finalized	17/10/2018	0.008	0.460	2.80	190.00	11.05	300.0	0.073	182.00	11.35	125.50	595.00
557965	173.00	175.00	2.00	2	VO18244254 - Finalized	17/10/2018	0.001	0.420	11.20	180.00	11.25	212.0	0.070	200.00	11.70	131.50	601.00
557966	175.00	177.00	2.00	2	VO18244254 - Finalized	17/10/2018	0.044	1.480	146.00	287.00	15.40	2,330.0	0.297	931.00	111.50	217.00	1 550.00
557967	177.00	179.00	2.00	2	VO18244254 - Finalized	17/10/2018	0.084	2.360	151.50	288.00	16.35	2,530.0	0.517	1 340.00	171.00	268.00	3 460.00
557968	179.00	180.30	1.30	2	VO18244254 - Finalized	17/10/2018	0.083	2.300	263.00	305.00	16.60	2,450.0	0.530	1 260.00	153.00	276.00	3 220.00
555533	180.30	181.00	0.70	2	VO18244255 - Finalized	09/10/2018	0.031	1.510	338.00	298.00	17.75	6,690.0	0.211	724.00	91.80	246.00	827.00
555534	181.00	182.30	1.30	2	VO18244255 - Finalized	09/10/2018	0.039	1.970	57.40	261.00	16.45	4,460.0	0.213	835.00	108.50	216.00	1 200.00
557970	182.30	184.00	1.70	2	VO18244254 - Finalized	17/10/2018	0.017	0.830	14.20	230.00	14.25	986.0	0.185	444.00	41.90	158.50	1 620.00
557971	184.00	185.50	1.50	2	VO18244254 - Finalized	17/10/2018	0.006	0.470	4.30	159.00	10.45	414.0	0.053	183.00	13.65	114.00	261.00
557972	185.50	187.00	1.50	2	VO18244254 - Finalized	17/10/2018	0.002	0.140	4.60	51.60	6.75	626.0	0.017	194.00	4.10	45.40	118.00
557973	187.00	189.00	2.00	2	VO18244254 - Finalized	17/10/2018	0.001	0.110	72.70	20.60	10.40	1,530.0	0.003	312.00	0.34	106.50	207.00
557974	189.00	191.00	2.00	2	VO18244254 - Finalized	17/10/2018	0.002	0.060	44.40	26.80	9.84	1,570.0	0.003	273.00	0.34	101.50	238.00
557975	191.00	193.00	2.00	2	VO18244254 - Finalized	17/10/2018	0.001	0.020	47.10	9.00	10.90	1,800.0	0.003	273.00	1.53	98.50	275.00
557977	193.00	195.00	2.00	2	VO18244254 - Finalized	17/10/2018	0.003	0.070	56.60	69.10	12.10	720.0	0.005	406.00	1.20	98.30	203.00
557978	195.00	197.00	2.00	2	VO18244254 - Finalized	17/10/2018	0.001	0.050	46.60	83.80	11.55	622.0	0.003	369.00	1.31	99.00	186.00
557979	197.00	198.10	1.10	2	VO18244254 - Finalized	17/10/2018	0.001	0.010	74.60	2.00	11.70	1,400.0	0.003	357.00	0.75	102.00	251.00
557980	198.10	200.00	1.90	2	VO18244254 - Finalized	17/10/2018	0.002	0.020	48.50	1.70	8.49	1,490.0	0.003	202.00	0.26	79.20	161.00
557981	200.00	201.80	1.80	2	VO18244260 - Finalized	19/10/2018	0.017	0.060	56.70	21.50	15.80	1,660.0	0.003	316.00	1.10	90.70	273.00
557982	201.80	202.60	0.80	2	VO18244260 - Finalized	19/10/2018	0.023	0.150	6.70	56.20	8.17	637.0	0.006	260.00	3.52	52.40	96.00
557983	202.60	203.75	1.15	2	VO18244260 - Finalized	19/10/2018	0.007	0.050	55.60	31.50	9.72	1,720.0	0.005	266.00	1.55	85.40	211.00
555535	203.75	205.00	1.25	2	VO18244255 - Finalized	09/10/2018	0.636	0.100	1.70	42.40	22.20	6,120.0	0.007	44.00	0.44	19.50	134.00
555536	205.00	205.85	0.85	2	VO18244255 - Finalized	09/10/2018	0.038	0.470	13.30	171.00	17.80	1,480.0	0.018	201.00	18.45	78.60	92.00
555537	205.85	206.95	1.10	2	VO18244255 - Finalized	09/10/2018	0.008	0.240	16.40	109.00	17.20	7,440.0	0.024	88.00	6.72	52.30	236.00
555538	206.95	208.00	1.05	2	VO18244255 - Finalized	09/10/2018	0.003	0.200	22.70	58.80	14.15	2,240.0	0.022	164.00	4.57	46.80	326.00
555540	208.00	208.90	0.90	2	VO18244255 - Finalized	09/10/2018	0.007	0.370	25.20	137.00	18.10	1,460.0	0.018	117.00	8.07	70.40	261.00
555541	208.90	210.00	1.10	2	VO18222692 - Finalized	17/09/2018	0.015	0.150	31.30	25.40	5.62	1,240.0	0.005	20.00	0.49	5.20	40.00
557984	210.00	211.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.065	0.080	38.50	7.00	17.10	4,400.0	0.003	12.00	0.55	5.10	28.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
557985	211.00	212.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.002	0.020	4.50	2.30	13.85	3,540.0	0.003	8.00	0.46	3.40	11.00
557986	212.00	213.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.007	0.030	0.50	5.30	22.80	5,420.0	0.003	31.00	0.72	5.10	13.00
557987	213.00	214.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.055	0.020	0.30	4.90	28.30	5,970.0	0.003	37.00	2.37	7.00	12.00
557988	214.00	215.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.042	0.020	1.00	5.00	25.00	5,100.0	0.003	39.00	2.67	6.90	10.00
557990	215.00	216.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.001	0.010	1.00	2.90	23.30	5,430.0	0.003	22.00	1.36	4.60	8.00
557991	216.00	217.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.001	0.010	1.60	2.60	24.60	6,240.0	0.003	19.00	0.84	5.00	8.00
557992	217.00	218.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.001	0.030	0.80	4.30	23.50	5,220.0	0.003	28.00	1.19	6.60	8.00
557993	218.00	219.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.003	0.040	0.50	8.00	31.60	6,030.0	0.003	53.00	0.81	10.60	10.00
557994	219.00	220.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.004	0.130	1.70	7.90	24.90	5,500.0	0.005	45.00	2.55	8.90	9.00
557995	220.00	221.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.001	0.090	1.20	5.90	24.60	5,260.0	0.003	36.00	2.84	6.90	10.00
557997	221.00	222.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.136	0.020	2.70	3.90	25.70	5,870.0	0.003	31.00	2.22	6.00	11.00
557998	222.00	223.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.001	0.030	0.60	4.10	25.40	6,170.0	0.003	23.00	1.43	5.10	9.00
557999	223.00	224.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.001	0.030	2.20	2.80	11.80	2,840.0	0.003	5.00	0.32	2.20	5.00
558000	224.00	225.00	1.00	2	VO18244260 - Finalized	19/10/2018	0.001	0.020	7.20	1.60	10.80	2,670.0	0.003	7.00	0.29	2.60	4.00
558001	225.00	226.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.030	37.40	2.80	16.55	4,300.0	0.003	13.00	1.58	5.70	6.00
558002	226.00	227.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.020	14.70	4.70	13.75	3,480.0	0.003	9.00	1.42	3.80	5.00
558003	227.00	228.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.010	7.50	3.50	10.10	2,490.0	0.003	7.00	1.74	2.70	4.00
558004	228.00	229.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.020	13.60	1.80	9.89	2,490.0	0.003	9.00	2.56	4.40	4.00
558005	229.00	230.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.010	13.40	1.80	12.20	3,090.0	0.003	10.00	1.72	4.30	5.00
558006	230.00	231.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.030	17.60	2.90	12.80	3,200.0	0.003	9.00	2.28	4.90	4.00
558007	231.00	232.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.040	7.60	2.00	18.20	4,340.0	0.005	11.00	1.24	5.20	6.00
558008	232.00	233.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.060	7.70	2.20	10.15	2,600.0	0.003	9.00	1.91	3.70	4.00
558010	233.00	234.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.002	0.010	4.70	2.20	11.00	2,740.0	0.003	6.00	1.63	3.10	4.00
558011	234.00	235.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.010	1.60	2.20	22.00	4,860.0	0.003	11.00	0.84	2.90	10.00
558012	235.00	236.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.020	2.10	3.20	22.90	5,390.0	0.003	19.00	1.67	4.40	12.00
558013	236.00	237.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.030	9.00	7.10	24.00	5,390.0	0.006	33.00	2.47	8.20	11.00
558014	237.00	238.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.030	4.40	3.70	24.40	5,140.0	0.003	31.00	2.89	6.90	8.00
558015	238.00	239.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.030	1.80	4.10	21.10	5,310.0	0.003	30.00	1.45	7.10	6.00
558017	239.00	240.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.010	6.80	2.20	22.00	5,470.0	0.003	8.00	0.91	4.00	6.00
558018	240.00	241.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.020	2.70	1.50	18.90	4,990.0	0.003	11.00	0.42	3.00	6.00
558019	241.00	242.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.010	1.70	1.40	20.10	5,770.0	0.003	11.00	0.60	3.00	6.00
558020	242.00	243.00	1.00	2	VO18223932 - Finalized	24/09/2018	0.001	0.010	4.10	2.60	19.65	5,700.0	0.003	11.00	0.65	3.10	6.00
558021	243.00	244.00	1.00	2	VO18223930 - Finalized	25/09/2018	0.001	0.070	4.10	2.30	24.00	6,370.0	0.003	16.00	0.68	3.70	8.00
558022	244.00	246.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.001	0.100	0.10	0.90	24.90	6,630.0	0.003	12.00	0.28	3.70	7.00
558023	246.00	247.00	1.00	2	VO18223930 - Finalized	25/09/2018	0.001	0.060	2.20	1.30	20.20	5,830.0	0.003	18.00	0.63	4.40	6.00



## Detailed Log Report

### Hole Number OSK-KAN-18-023

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	-66.00 <b>Collar Az:</b> 262.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 369 200.00	<b>Length:</b>	514.50 <b>Hole Size:</b> NQ
<b>Start Date:</b>	August 28, 2018	<b>East:</b>	486 380.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	September 2, 2018	<b>Elev:</b>	167.00	<b>Casing Length:</b>	12.00 <b>Pulled:</b> N
<b>Contractor:</b>	Forage Nordic/Forage Spektra			<b>Capped:</b>	Y <b>Making Water:</b> N
<b>Logger 1:</b>	Simon Hebert			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	400			<b>Claims Title:</b>	2099196 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	12.00	OVB, Overburden					
<b>Comments:</b>							

From	To	Lithology	Sample	From	To	Length	Comments
12.00	73.30	S6g, Grey Shale	558024	12.00	14.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK 85°
			558025	14.00	16.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK 85°
<b>Comments:</b>			558026	16.00	18.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK 85°
			558027	18.00	20.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK 85°
			558028	20.00	22.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK 85°
			558030	22.00	24.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK 85°
			558031	24.00	26.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK 85°
			558032	26.00	28.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK 85°
			558033	28.00	30.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK 85°
			558034	30.00	32.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK 85°
			558035	32.00	34.00	2.00	S6g; 0.1% Po DI PER
			558037	34.00	36.00	2.00	S6g; 0.1% Po DI PER
			558038	36.00	38.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK
			558039	38.00	40.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK
			558040	40.00	42.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK
			558041	42.00	44.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK
			558042	44.00	46.00	2.00	S6g; 0.1% Po DI PER; 0.1% I1N QZ AK
			558043	46.00	48.00	2.00	S6g; Ank-1; 0.1% Po DI PER; 0.1% I1N QZ AK
			558044	48.00	50.00	2.00	S6g; NO ALT; 0.1% Po DI PER; 0.1% I1N QZ AK
			558045	50.00	52.00	2.00	S6g; NO ALT; 0.1% Po DI PER; 0.1% I1N QZ AK
			558046	52.00	54.00	2.00	S6g; NO ALT; 0.1% Po DI PER; 0.1% I1N QZ AK
			558047	54.00	56.00	2.00	S6g; NO ALT; 0.1% Po DI PER; 0.1% I1N QZ AK
			558048	56.00	58.00	2.00	S6g; NO ALT; 0.1% Po DI PER; 0.1% I1N QZ AK
			558050	58.00	60.00	2.00	S6g; NO ALT; 0.1% Po DI PER; 0.1% I1N QZ AK
			558051	60.00	62.00	2.00	S6g; NO ALT; 0.1% Po DI PER; 0.1% I1N QZ AK
			558052	62.00	64.00	2.00	S6g; NO ALT; 0.1% Po DI PER; 0.1% I1N QZ AK
			558053	64.00	66.00	2.00	S6g; NO ALT; 0.1% Po DI PER; 0.1% I1N QZ AK
			558054	66.00	68.00	2.00	S6g; NO ALT; 0.1% Po DI PER; 0.1% I1N QZ AK
			558055	68.00	70.00	2.00	S6g; NO ALT; 0.1% Po DI PER; 0.1% I1N QZ AK
			558057	70.00	72.00	2.00	S6g; NO ALT; 2% Po SS BD; 0.1% I1N QZ AK
			558058	72.00	73.30	1.30	S6g; NO ALT; 2% Po SS BD; 15% I1N QZ AK 3 cm
73.30	92.40	I3A, Gabbro	558059	73.30	75.00	1.70	I3A Chl-Cal; CC-4; 0.1% Po DI PER; 0.1% I1N QZ CC 1 cm
			558060	75.00	77.00	2.00	I3A Chl-Cal; CC-4; 0.1% Po DI PER; 0.1% I1N QZ CC 1 cm
<b>Comments:</b>			558061	77.00	79.00	2.00	I3A Chl-Cal; CC-4; 0.1% Po DI PER; 0.1% I1N QZ CC 1 cm
			558062	79.00	81.00	2.00	I3A Chl-Cal; CC-4; 0.1% Po DI PER; 0.1% I1N QZ CC 1 cm
			558063	81.00	83.00	2.00	I3A Chl-Cal; CC-4; 0.1% Po DI PER
			558064	83.00	85.00	2.00	I3A Chl-Cal; CC-4; 0.1% Po DI PER
			558065	85.00	87.00	2.00	I3A Chl-Cal; CC-4; 0.1% Po DI PER; 0.1% I1N QZ CC 1 cm
			558066	87.00	89.00	2.00	I3A Chl-Cal; CC-4; 0.1% Po DI PER; 0.1% I1N QZ CC 1 cm
			558067	89.00	91.00	2.00	I3A Chl-Cal; CC-4; 0.1% Po DI PER; 0.1% I1N QZ CC 1 cm
			558068	91.00	92.40	1.40	I3A Chl-Cal; CC-4; 0.1% Po DI PER; 0.1% I1N QZ CC 1 cm

From	To	Lithology	Sample	From	To	Length	Comments
92.40	98.20	S6g, Grey Shale	558070	92.40	94.00	1.60	S6g; NO ALT; 3% Po SS BD
			558071	94.00	96.00	2.00	S6g; NO ALT
			558072	96.00	98.20	2.20	S6g; NO ALT; 2% Po AL BD
<b>Comments:</b>							
98.20	129.20	I3A, Gabbro	558073	98.20	100.00	1.80	I3A Chl-Cal; CC-4; 2% I1N QZ CC; FLT 2
			558074	100.00	102.00	2.00	I3A Chl-Cal; CC-4; 2% I1N QZ CC; FLT 2
			558075	102.00	104.00	2.00	I3A Chl-Cal; CC-4; 2% I1N QZ CC; FLT 2
			558077	104.00	106.00	2.00	I3A Chl-Cal; CC-4; 2% I1N QZ CC; FLT 2
			558078	106.00	108.00	2.00	I3A Chl-Cal; CC-4; 2% I1N QZ CC; FLT 2
			558079	108.00	110.00	2.00	I3A Chl-Cal; CC-4; 2% I1N QZ CC
			558080	110.00	112.00	2.00	I3A Chl-Cal; CC-4; 2% I1N QZ CC
			558081	112.00	114.00	2.00	I3A Chl-Cal; CC-4; 2% I1N QZ CC
			558082	114.00	116.00	2.00	I3A Chl-Cal; CC-4; 2% I1N QZ CC
			558083	116.00	118.00	2.00	I3A Chl-Cal; CC-4; 2% I1N QZ CC
			558084	118.00	120.00	2.00	I3A Chl-Cal; CC-4; 2% I1N QZ CC
			558085	120.00	122.00	2.00	I3A Chl-Cal; CC-4; 2% I1N QZ CC
			558086	122.00	124.00	2.00	I3A Chl-Cal; CC-4; 2% I1N QZ CC
			558087	124.00	126.00	2.00	I3A Chl-Cal; CC-4; 2% I1N QZ CC
558088	126.00	128.00	2.00	I3A Chl-Cal; CC-4; 2% I1N QZ CC			
558090	128.00	129.20	1.20	I3A Chl-Cal; CC-4; 2% I1N QZ CC			
129.20	132.10	S6g, Grey Shale	558091	129.20	131.00	1.80	S6g; Ank-1; 1% Po AL BD; 0.5% I1N QZ CC 3 cm
			558092	131.00	132.10	1.10	S6g; Ank-1; 1% Po AL BD; 0.5% I1N QZ CC 3 cm
<b>Comments:</b>							
132.10	155.10	I3A, Gabbro	558093	132.10	134.00	1.90	I3A Chl-Cal; CC-3; 0.1% I1N QZ CC 1 cm
			558094	134.00	136.00	2.00	I3A Chl-Cal; CC-3; 0.1% I1N QZ CC 1 cm
			558095	136.00	138.00	2.00	I3A Chl-Cal; CC-3
			558097	138.00	140.00	2.00	I3A Chl-Cal; CC-3
			558098	140.00	142.00	2.00	I3A Chl-Cal; CC-3; FLT 2
			558099	142.00	144.00	2.00	I3A Chl-Cal; CC-3
			558100	144.00	146.00	2.00	I3A Chl-Cal; NO ALT
			558101	146.00	148.00	2.00	I3A Chl-Cal; NO ALT
			558102	148.00	150.00	2.00	I3A Chl-Cal; NO ALT
			558103	150.00	152.00	2.00	I3A Chl-Cal
			558104	152.00	154.00	2.00	I3A Chl-Cal; CC-3
558105	154.00	155.10	1.10	I3A Chl-Cal; CC-3			



From	To	Lithology	Sample	From	To	Length	Comments
155.10	199.20	S6g, Grey Shale	558106	155.10	157.00	1.90	S6g; NO ALT; 1% I1N QZ AK 66°
			558107	157.00	159.00	2.00	S6g; NO ALT; 1% I1N QZ AK 66°
<b>Comments:</b>			558108	159.00	161.00	2.00	S6g; NO ALT; 1% I1N QZ AK 66°
			558110	161.00	163.00	2.00	S6g; NO ALT; 2% Po AL VN; 17% I1N QZ AK
			558111	163.00	165.00	2.00	S6g; NO ALT; 2% Po AL VN; 17% I1N QZ AK
			558112	165.00	167.00	2.00	S6g; NO ALT; 0.1% Po DI VN; 1% I1N QZ AK
			558113	167.00	169.00	2.00	S6g; NO ALT; 0.1% Po DI VN; 1% I1N QZ AK
			558114	169.00	171.00	2.00	S6g; NO ALT; 0.1% Po DI VN; 10% I1N QZ AK 6 cm
			558115	171.00	173.00	2.00	S6g; NO ALT; 0.1% Po DI VN 0.5% Po DI PER; 3% I1N QZ AK 70°
			558117	173.00	175.00	2.00	S6g; NO ALT; 0.1% Po DI VN 0.5% Po DI PER; 3% I1N QZ AK 70°
			558118	175.00	177.00	2.00	S6g; NO ALT; 0.1% Po DI VN 0.5% Po DI PER; 3% I1N QZ AK 70°
			558119	177.00	179.00	2.00	S6g; NO ALT; 0.1% Po DI VN 0.5% Po DI PER; 3% I1N QZ AK 70°
			558120	179.00	181.00	2.00	S6g; NO ALT; 0.1% Po DI VN 0.5% Po DI PER; 3% I1N QZ AK 70°
			558121	181.00	183.00	2.00	S6g; CC-2 Chl-2; 0.1% Po DI VN 0.5% Po DI PER; 3% I1N QZ AK 70°
			558122	183.00	185.00	2.00	S6g; CC-2 Chl-2; 0.1% Po DI VN 0.5% Po DI PER; 3% I1N QZ AK 70°
			558123	185.00	187.00	2.00	S6g; CC-2 Chl-2; 0.1% Po DI VN 0.5% Po DI PER; 3% I1N QZ AK 70°
			558124	187.00	189.00	2.00	S6g; CC-2 Chl-2; 0.1% Po DI VN 0.5% Po DI PER; 3% I1N QZ AK 70°
			558125	189.00	191.00	2.00	S6g; CC-2 Chl-2; 0.1% Po DI VN 0.5% Po DI PER; 3% I1N QZ AK 70°
			558126	191.00	193.00	2.00	S6g; 0.1% Po DI VN 0.5% Po DI PER; 3% I1N QZ AK 70°
			558127	193.00	194.00	1.00	S6g; NO ALT; 0.1% Po DI VN 0.5% Po DI PER; 3% I1N QZ AK 70°
			558128	194.00	196.00	2.00	S6g; NO ALT; 1% Po DI VN; 15% I1N QZ CL 48°
			558130	196.00	198.00	2.00	S6g; NO ALT; 1% Po DI VN; 15% I1N QZ CL 48°
			558131	198.00	199.20	1.20	S6g; NO ALT; 1% Po DI VN; 15% I1N QZ CL 48°

From	To	Lithology	Sample	From	To	Length	Comments
199.20	355.00	I3A, Gabbro	558132	199.20	201.00	1.80	I3A QZ; CC-3 Ank-2; 1% I1N QZ CC
			558133	201.00	203.00	2.00	I3A QZ; CC-3 Ank-2; 1% I1N QZ CC
			558134	203.00	205.00	2.00	I3A QZ; CC-3 Ank-2; 1% I1N QZ CC
			558135	205.00	207.00	2.00	I3A QZ; CC-3 Ank-2; 1% I1N QZ CC
			558137	207.00	209.00	2.00	I3A QZ; CC-3 Ank-2; 1% I1N QZ CC
			558138	209.00	211.00	2.00	I3A QZ; CC-3 Ank-2; 1% I1N QZ CC
			558139	211.00	213.00	2.00	I3A QZ; CC-3 Ank-2; 1% I1N QZ CC
			558140	213.00	215.00	2.00	I3A QZ; CC-3 Ank-2; 1% I1N QZ CC
			558141	215.00	217.00	2.00	I3A QZ; CC-3 Ank-2; 1% I1N QZ CC
			558142	217.00	219.00	2.00	; 1% I1N QZ CC
			558143	219.00	221.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558144	221.00	223.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558145	223.00	225.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558146	225.00	227.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558147	227.00	229.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558148	229.00	231.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558150	231.00	233.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558151	233.00	235.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558152	235.00	237.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558153	237.00	239.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558154	239.00	241.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558155	241.00	243.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558157	243.00	245.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558158	245.00	247.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558159	247.00	249.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558160	249.00	251.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558161	251.00	253.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558162	253.00	255.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558163	255.00	257.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558164	257.00	259.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558165	259.00	261.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 2% I1N QZ AK
			558166	261.00	263.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558167	263.00	265.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558168	265.00	267.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558170	267.00	269.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558171	269.00	271.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558172	271.00	273.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558173	273.00	275.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558174	275.00	277.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558175	277.00	279.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558177	279.00	281.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC

From	To	Lithology	Sample	From	To	Length	Comments
			558178	281.00	283.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558179	283.00	285.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558180	285.00	287.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558181	287.00	289.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558182	289.00	291.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558183	291.00	293.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558184	293.00	295.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558185	295.00	297.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558186	297.00	299.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558187	299.00	301.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558188	301.00	303.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558190	303.00	305.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558191	305.00	307.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558192	307.00	309.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558193	309.00	311.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558194	311.00	313.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558195	313.00	315.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558197	315.00	317.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558198	317.00	319.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558199	319.00	321.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558200	321.00	323.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558201	323.00	325.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558202	325.00	327.00	2.00	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558203	327.00	328.80	1.80	I3A; NO ALT; 0.1% Po DI PER; 1% I1N QZ CC
			558204	328.80	331.00	2.20	I3A QZ; NO ALT; 1% I1N QZ CC
			558205	331.00	333.00	2.00	I3A; NO ALT
			558206	333.00	335.00	2.00	I3A; NO ALT
			558207	335.00	337.00	2.00	I3A; NO ALT
			558208	337.00	339.00	2.00	I3A; NO ALT
			558210	339.00	341.00	2.00	I3A; NO ALT
			558211	341.00	343.00	2.00	I3A; NO ALT
			558212	343.00	345.00	2.00	I3A; NO ALT
			558213	345.00	347.00	2.00	I3A; NO ALT
			558214	347.00	349.00	2.00	I3A; NO ALT
			558215	349.00	351.00	2.00	I3A; CC-1; 4% I1N QZ CC
			558217	351.00	353.00	2.00	I3A; CC-1; 4% I1N QZ CC
			558218	353.00	355.00	2.00	I3A; CC-1; 4% I1N QZ CC

From	To	Lithology	Sample	From	To	Length	Comments	
355.00	371.90	<b>S6g, Grey Shale</b>	558219	355.00	357.00	2.00	S6g; CC-2 Ank-2; 0.1% Po DI VN 0.5% Po DI VN; 5% I1N QZ AK	
			558220	357.00	359.00	2.00	S6g; CC-2 Ank-2; 0.1% Po DI VN 0.5% Po DI VN; 5% I1N QZ AK	
			<b>Comments:</b>	558221	359.00	361.00	2.00	S6g; CC-2 Ank-2; 0.1% Po DI VN 0.5% Po DI VN; 5% I1N QZ AK
			558222	361.00	363.00	2.00	S6g; CC-2 Ank-2; 0.1% Po DI VN 0.5% Po DI VN; 5% I1N QZ AK	
			558223	363.00	365.00	2.00	S6g; CC-2 Ank-2; 0.1% Po DI VN 0.5% Po DI VN; 5% I1N QZ AK	
			558224	365.00	367.00	2.00	S6g; CC-2 Ank-2; 0.1% Po DI VN 0.5% Po DI VN; 5% I1N QZ AK	
			558225	367.00	369.00	2.00	S6g; CC-2 Ank-2; 0.1% Po DI VN 0.5% Po DI VN; 5% I1N QZ AK	
			558226	369.00	371.00	2.00	S6g; CC-2 Ank-2; 0.1% Po DI VN 0.5% Po DI VN; 5% I1N QZ AK	
			558227	371.00	371.90	0.90	S6g; CC-2 Ank-2; 0.1% Po DI VN 0.5% Po DI VN; 5% I1N QZ AK	
371.90	380.00	<b>S6, Mudrock</b>	558228	371.90	373.00	1.10	S6; NO ALT; 6% Po SS BD 4% Py SUB BD; 1% I1N QZ	
			<b>Comments:</b>	558230	373.00	375.00	2.00	S6; NO ALT; 6% Po SS BD 4% Py SUB BD; 1% I1N QZ
			558231	375.00	377.00	2.00	S6; NO ALT; 6% Po SS BD 4% Py SUB BD; 1% I1N QZ	
			558232	377.00	379.00	2.00	S6; NO ALT; 5% Py SUB PER 17% Po SSM BD; 1% I1N QZ	
			558233	379.00	380.00	1.00	S6; NO ALT; 5% Py SUB PER 17% Po SSM BD; 1% I1N QZ	
380.00	391.00	<b>S9, Iron formation</b>	555542	380.00	381.00	1.00	S9C Sid; Ank-3 Chl-3; 2% Po AL VN; 30% I1N QZ AK	
			<b>Comments:</b>	555543	381.00	382.00	1.00	S9C Sid; Ank-3 Chl-3; 2% Po AL VN; 30% I1N QZ AK
			555544	382.00	382.50	0.50	S9C Sid; Ank-3 Chl-3; 2% Po AL VN; 30% I1N QZ AK	
			555545	382.50	384.00	1.50	S9C Sid; Ank-1 Chl-1; 0.1% Po AL VN; 2% I1N QZ AK	
			555547	384.00	385.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po AL VN; 2% I1N QZ AK	
			555548	385.00	386.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po AL VN; 2% I1N QZ AK	
			555549	386.00	387.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po AL VN; 2% I1N QZ AK	
			555550	387.00	388.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po AL VN; 2% I1N QZ AK	
			555551	388.00	389.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po AL VN; 2% I1N QZ AK	
			555552	389.00	390.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po AL VN; 2% I1N QZ AK	
			555553	390.00	391.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po AL VN; 2% I1N QZ AK	
391.00	392.50	<b>S6g, Grey Shale</b>	558234	391.00	392.50	1.50	S6g GP; Ank-2 Ank-1; 2% Po AL VN; 0.1% I1N QZ AK	
			<b>Comments:</b>					
392.50	398.20	<b>S9, Iron formation</b>	555554	392.50	394.00	1.50	S9C Sid; Ank-3; 1.5% Po DI PER; 2% I1N QZ AK	
			<b>Comments:</b>	555555	394.00	395.00	1.00	S9C Sid; Ank-3; 1.5% Po DI PER; 2% I1N QZ AK
			555556	395.00	396.00	1.00	S9C Sid; Ank-3; 1.5% Po DI PER; 2% I1N QZ AK	
			555557	396.00	397.00	1.00	S9C Sid; Ank-3; 1.5% Po DI PER; 2% I1N QZ AK	
			555558	397.00	398.20	1.20	S9C Sid; Ank-3; 1.5% Po DI PER; 2% I1N QZ AK	

From	To	Lithology	Sample	From	To	Length	Comments	
398.20	426.15	<b>S6, Mudrock</b>	558235	398.20	400.00	1.80	S6 GP; Ank-1; 6% Po SS BD 4% Py SUB BD; 6% I1N QZ AK	
			558237	400.00	402.00	2.00	S6 GP; Ank-1; 6% Po SS BD 4% Py SUB BD; 6% I1N QZ AK	
			<b>Comments:</b>	558238	402.00	404.00	2.00	S6 GP; Ank-1; 6% Po SS BD 4% Py SUB BD; 6% I1N QZ AK
			558239	404.00	406.00	2.00	S6 GP; Ank-1; 6% Po SS BD 4% Py SUB BD; 6% I1N QZ AK	
			558240	406.00	408.00	2.00	S6 GP; Ank-1; 6% Po SS BD 4% Py SUB BD; 6% I1N QZ AK	
			558241	408.00	410.00	2.00	S6 GP; Ank-1; 6% Po SS BD 4% Py SUB BD; 6% I1N QZ AK	
			558242	410.00	412.00	2.00	S6 GP; Ank-1; 6% Po SS BD 4% Py SUB BD; 6% I1N QZ AK	
			558243	412.00	414.00	2.00	S6 GP; Ank-1; 6% Po SS BD 4% Py SUB BD; 6% I1N QZ AK	
			558244	414.00	416.00	2.00	S6 GP; Ank-1; 6% Po SS BD 4% Py SUB BD; 6% I1N QZ AK	
			558245	416.00	418.00	2.00	S6 GP; Ank-1; 6% Po SS BD 4% Py SUB BD; 6% I1N QZ AK	
			558246	418.00	420.00	2.00	S6 GP; Ank-1; 6% Po SS BD 4% Py SUB BD; 6% I1N QZ AK	
			558247	420.00	422.00	2.00	S6 GP; Ank-1; 6% Po SS BD 4% Py SUB BD; 6% I1N QZ AK	
			558248	422.00	424.00	2.00	S6 GP; Ank-1; 6% Po SS BD 4% Py SUB BD; 6% I1N QZ AK	
			558250	424.00	426.15	2.15	S6 GP; Ank-1; 6% Po SS BD 4% Py SUB BD; 6% I1N QZ AK	
426.15	428.75	<b>S6-S9, Mudrock-Iron formati</b>	558251	426.15	428.00	1.85	S6-S9; NO ALT-1; 3% Po SS BD 1% Py DI PER; 1% I1N QZ AK	
			<b>Comments:</b>	558252	428.00	428.75	0.75	S6-S9; NO ALT-1; 3% Po SS BD 1% Py DI PER; 1% I1N QZ AK
428.75	435.70	<b>S6, Mudrock</b>	558253	428.75	430.00	1.25	S6 GP; NO ALT-1; 6% Po SS BD 4% Py SUB BD; 1% I1N QZ AK	
			<b>Comments:</b>	558254	430.00	432.00	2.00	S6 GP; NO ALT-1; 6% Po SS BD 4% Py SUB BD; 1% I1N QZ AK
			558255	432.00	434.00	2.00	S6 GP; NO ALT-1; 6% Po SS BD 4% Py SUB BD; 1% I1N QZ AK	
			558257	434.00	435.70	1.70	S6 GP; NO ALT-1; 6% Po SS BD 4% Py SUB BD; 1% I1N QZ AK	
435.70	438.30	<b>S9, Iron formation</b>	555560	435.70	437.00	1.30	S9C; Ank-1 Chl-1; 1% Po DI VN 0.1% Po DI PER; 10% I1N QZ AK 54°	
			<b>Comments:</b>	555561	437.00	438.20	1.20	S9C; Ank-1 Chl-1; 1% Po DI VN 0.1% Po DI PER; 10% I1N QZ AK 54°
438.30	441.00	<b>S6g, Grey Shale</b>	558274	438.30	440.00	1.70	S6g GP; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK	
			<b>Comments:</b>	558275	440.00	441.00	1.00	S6g GP; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK
441.00	448.50	<b>S9, Iron formation</b>	555562	441.00	442.00	1.00	S9; Ank-1 Chl-1; 1% Po DI VN 0.1% Po DI PER	
			<b>Comments:</b>	555563	442.00	443.00	1.00	S9; Ank-1 Chl-1; 1% Po DI VN 0.1% Po DI PER
			555564	443.00	444.00	1.00	S9; Ank-1 Chl-1; 1% Po DI VN 0.1% Po DI PER	
			555565	444.00	445.00	1.00	S9; Ank-1 Chl-1; 1% Po DI VN 0.1% Po DI PER	
			555567	445.00	446.00	1.00	S9; Ank-1 Chl-1; 1% Po DI VN 0.1% Po DI PER; 60% I1N QZ AK	
			555568	446.00	447.00	1.00	S9; Ank-1 Chl-1; 1% Po DI VN 0.1% Po DI PER; 60% I1N QZ AK	
			555569	447.00	448.00	1.00	S9; Ank-1 Chl-1; 1% Po DI VN 0.1% Po DI PER; 60% I1N QZ AK	
			555570	448.00	448.50	0.50	S9; Ank-1 Chl-1; 1% Po DI VN 0.1% Po DI PER; 60% I1N QZ AK	

From	To	Lithology	Sample	From	To	Length	Comments
448.50	454.55	S6, Mudrock	558258	448.50	450.00	1.50	S6 GP; NO ALT; 33% Po SS BD 4% Py SUB BD; 1% I1N QZ AK
			558259	450.00	452.00	2.00	S6 GP; NO ALT; 33% Po SS BD 4% Py SUB BD; 1% I1N QZ AK
			558260	452.00	454.55	2.55	S6 GP; NO ALT; 33% Po SS BD 4% Py SUB BD; 1% I1N QZ AK
<b>Comments:</b>							
454.55	460.30	S6-S9, Mudrock-Iron formati	558261	454.55	456.00	1.45	S6-S9; NO ALT; 1% Po SS BD 1% Py DI BD; 1% I1N QZ AK
			558262	456.00	456.55	0.55	S6-S9; NO ALT; 1% Po SS BD 1% Py DI BD; 1% I1N QZ AK
			558263	456.55	458.50	1.95	S6-S9; NO ALT; 1% Po SS BD 1% Py DI BD; 1% I1N QZ AK
			558264	458.50	460.30	1.80	S6-S9; NO ALT; 1% Po SS BD 1% Py DI BD; 1% I1N QZ AK
<b>Comments:</b>							
460.30	469.40	S6, Mudrock	558265	460.30	462.00	1.70	S6 GP; NO ALT; 6% Py SUB BD 3% Po SS BD; 1% I1N QZ AK
			558266	462.00	464.00	2.00	S6 GP; NO ALT; 6% Py SUB BD 3% Po SS BD; 1% I1N QZ AK
			558267	464.00	466.00	2.00	S6 GP; NO ALT; 6% Py SUB BD 3% Po SS BD; 1% I1N QZ AK
			558268	466.00	468.00	2.00	S6 GP; NO ALT; 6% Py SUB BD 3% Po SS BD; 1% I1N QZ AK
			558270	468.00	469.40	1.40	S6 GP; NO ALT; 6% Py SUB BD 3% Po SS BD; 1% I1N QZ AK
<b>Comments:</b>							
469.40	474.60	S9, Iron formation	555571	469.40	470.00	0.60	S9C; NO ALT; 0.1% Po DI PER; 1.5% I1N QZ AK
			555572	470.00	471.00	1.00	S9C; NO ALT; 0.1% Po DI PER; 1.5% I1N QZ AK
			555573	471.00	472.00	1.00	S9C; NO ALT; 0.1% Po DI PER; 1.5% I1N QZ AK
			555574	472.00	473.00	1.00	S9C; NO ALT; 0.1% Po DI PER; 1.5% I1N QZ AK
			555575	473.00	474.00	1.00	S9C; NO ALT; 0.1% Po DI PER; 1.5% I1N QZ AK
			555576	474.00	474.60	0.60	S9C; NO ALT; 0.1% Po DI PER; 1.5% I1N QZ AK
<b>Comments:</b>							
474.60	478.80	S6, Mudrock	558271	474.60	476.00	1.40	S6 GP; NO ALT; 2% Po SS BD 2% Py DI BD; 0.1% I1N QZ AK
			558272	476.00	478.00	2.00	S6 GP; NO ALT; 2% Po SS BD 2% Py DI BD; 0.1% I1N QZ AK
			558273	478.00	478.80	0.80	S6 GP; NO ALT; 2% Po SS BD 2% Py DI BD; 0.1% I1N QZ AK
<b>Comments:</b>							

From	To	Lithology	Sample	From	To	Length	Comments		
478.80	502.20	S9, Iron formation	555577	478.80	480.00	1.20	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 8% I1N QZ AK		
			555578	480.00	480.70	0.70	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			<b>Comments:</b>		555580	480.70	482.00	1.30	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK
			555581	482.00	483.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555582	483.00	484.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555583	484.00	485.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555584	485.00	486.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555585	486.00	487.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555587	487.00	488.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555588	488.00	489.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555589	489.00	490.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555590	490.00	491.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555591	491.00	492.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555592	492.00	493.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555593	493.00	494.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555594	494.00	495.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555595	495.00	496.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555596	496.00	497.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555597	497.00	498.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
			555598	498.00	499.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK		
555600	499.00	500.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK					
555601	500.00	501.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK					
555602	501.00	502.20	1.20	S9C Sid; Ank-1 Chl-1; 0.1% Po DI PER; 1% I1N QZ AK					
502.20	513.60	S6, Mudrock	558277	502.20	504.00	1.80	S6 GP; NO ALT; 3% Po AL BD 5% Py SUB BD; 0.1% I1N QZ		
			558278	504.00	506.00	2.00	S6 GP; NO ALT; 3% Po AL BD 5% Py SUB BD; 0.1% I1N QZ		
			<b>Comments:</b>		558279	506.00	508.00	2.00	S6 GP; NO ALT; 3% Po AL BD 5% Py SUB BD; 0.1% I1N QZ
			558280	508.00	510.00	2.00	S6 GP; NO ALT; 3% Po AL BD 5% Py SUB BD; 0.1% I1N QZ		
			558281	510.00	512.00	2.00	S6 GP; NO ALT; 3% Po AL BD 5% Py SUB BD; 0.1% I1N QZ		
			558282	512.00	513.60	1.60	S6 GP; NO ALT; 3% Po AL BD 5% Py SUB BD; 0.1% I1N QZ		
555603	513.60	514.50	0.90	S9C Sid; Ank-1 Chl-1; 0.1% Py SUB PER 0.1% Po AL PER; 10% I1N QZ AK					
513.60	514.50	S9, Iron formation							
<b>Comments:</b>									

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
1.00	318.40	-66.30	FM	Test Non-OK	
4.00	342.30	-66.40	FM	Test Non-OK	
7.00	342.30	-66.30	FM	Test Non-OK	
10.00	310.40	-66.40	FM	Test Non-OK	
13.00	284.40	-61.90	FM	Test Non-OK	
16.00	265.40	-65.20	FM	Test Non-OK	
19.00	260.30	-66.30	FM	Test OK-Accept	
22.00	267.20	-64.70	FM	Test Non-OK	
25.00	260.60	-66.40	FM	Test OK-Accept	
28.00	260.70	-66.30	FM	Test OK-Accept	
31.00	260.90	-66.30	FM	Test OK-Accept	
34.00	260.80	-66.40	FM	Test OK-Accept	
37.00	261.10	-66.30	FM	Test OK-Accept	
40.00	261.20	-66.30	FM	Test OK-Accept	
43.00	258.60	-66.90	FM	Test Non-OK	
46.00	261.10	-66.30	FM	Test OK-Accept	
49.00	261.50	-66.30	FM	Test OK-Accept	
52.00	261.50	-66.30	FM	Test OK-Accept	
55.00	261.60	-66.30	FM	Test OK-Accept	
58.00	261.60	-66.20	FM	Test OK-Accept	
61.00	261.60	-66.20	FM	Test OK-Accept	
64.00	261.50	-66.20	FM	Test OK-Accept	
67.00	261.70	-66.20	FM	Test OK-Accept	
70.00	261.80	-66.10	FM	Test OK-Accept	
73.00	261.50	-66.10	FM	Test OK-Accept	
76.00	261.60	-66.10	FM	Test OK-Accept	
79.00	261.30	-66.00	FM	Test OK-Accept	
82.00	261.30	-66.00	FM	Test OK-Accept	
85.00	261.50	-66.00	FM	Test OK-Accept	
88.00	261.40	-66.00	FM	Test OK-Accept	
91.00	261.00	-65.90	FM	Test OK-Accept	
94.00	261.60	-65.90	FM	Test OK-Accept	
97.00	262.00	-65.90	FM	Test OK-Accept	
100.00	260.90	-65.90	FM	Test OK-Accept	
103.00	261.30	-65.90	FM	Test OK-Accept	
106.00	244.10	-69.70	FM	Test Non-OK	
109.00	229.40	-71.70	FM	Test Non-OK	



Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
112.00	261.20	-65.90	FM	Test OK-Accept	
115.00	261.30	-65.80	FM	Test OK-Accept	
118.00	261.20	-65.80	FM	Test OK-Accept	
121.00	260.00	-65.80	FM	Test Non-OK	
124.00	260.80	-65.70	FM	Test OK-Accept	
127.00	261.00	-65.60	FM	Test OK-Accept	
130.00	261.00	-65.70	FM	Test OK-Accept	
133.00	261.10	-65.60	FM	Test OK-Accept	
136.00	261.10	-65.60	FM	Test OK-Accept	
139.00	261.30	-65.60	FM	Test OK-Accept	
142.00	261.20	-65.60	FM	Test OK-Accept	
145.00	261.10	-65.60	FM	Test OK-Accept	
148.00	261.30	-65.60	FM	Test OK-Accept	
151.00	261.50	-65.50	FM	Test OK-Accept	
154.00	261.60	-65.50	FM	Test OK-Accept	
157.00	261.40	-65.50	FM	Test OK-Accept	
160.00	261.50	-65.50	FM	Test OK-Accept	
163.00	261.60	-65.40	FM	Test OK-Accept	
166.00	261.50	-65.40	FM	Test OK-Accept	
169.00	261.60	-65.30	FM	Test OK-Accept	
172.00	261.70	-65.20	FM	Test OK-Accept	
175.00	261.70	-65.20	FM	Test OK-Accept	
178.00	261.60	-65.20	FM	Test OK-Accept	
181.00	261.60	-65.20	FM	Test OK-Accept	
184.00	261.80	-65.20	FM	Test OK-Accept	
187.00	261.80	-65.20	FM	Test OK-Accept	
190.00	262.00	-65.20	FM	Test OK-Accept	
193.00	262.20	-65.20	FM	Test OK-Accept	
196.00	262.10	-65.30	FM	Test OK-Accept	
199.00	262.20	-65.30	FM	Test OK-Accept	
202.00	262.20	-65.30	FM	Test OK-Accept	
205.00	262.20	-65.30	FM	Test OK-Accept	
208.00	262.10	-65.20	FM	Test OK-Accept	
211.00	262.50	-65.20	FM	Test OK-Accept	
214.00	262.10	-65.20	FM	Test OK-Accept	
217.00	262.30	-65.20	FM	Test OK-Accept	
220.00	262.00	-65.20	FM	Test OK-Accept	
223.00	262.40	-65.20	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
226.00	262.40	-65.10	FM	Test OK-Accept	
229.00	262.30	-65.10	FM	Test OK-Accept	
232.00	262.40	-65.10	FM	Test OK-Accept	
235.00	262.40	-65.00	FM	Test OK-Accept	
238.00	262.20	-65.00	FM	Test OK-Accept	
241.00	262.40	-65.00	FM	Test OK-Accept	
244.00	262.40	-65.00	FM	Test OK-Accept	
247.00	262.50	-64.90	FM	Test OK-Accept	
250.00	262.50	-64.90	FM	Test OK-Accept	
253.00	262.50	-65.00	FM	Test OK-Accept	
256.00	262.50	-64.90	FM	Test OK-Accept	
259.00	262.50	-64.90	FM	Test OK-Accept	
262.00	262.30	-64.90	FM	Test OK-Accept	
265.00	262.40	-64.90	FM	Test OK-Accept	
268.00	262.20	-65.00	FM	Test OK-Accept	
271.00	262.40	-64.90	FM	Test OK-Accept	
274.00	262.30	-64.90	FM	Test OK-Accept	
277.00	262.40	-64.90	FM	Test OK-Accept	
280.00	262.20	-64.90	FM	Test OK-Accept	
283.00	262.20	-64.90	FM	Test OK-Accept	
286.00	262.20	-64.90	FM	Test OK-Accept	
289.00	262.10	-64.90	FM	Test OK-Accept	
292.00	261.90	-64.90	FM	Test OK-Accept	
295.00	262.00	-64.90	FM	Test OK-Accept	
298.00	262.00	-64.90	FM	Test OK-Accept	
301.00	262.20	-64.90	FM	Test OK-Accept	
304.00	261.90	-65.00	FM	Test OK-Accept	
307.00	262.00	-64.90	FM	Test OK-Accept	
310.00	262.10	-64.90	FM	Test OK-Accept	
313.00	262.10	-64.90	FM	Test OK-Accept	
316.00	262.20	-64.90	FM	Test OK-Accept	
319.00	261.40	-65.10	FM	Test Non-OK	
322.00	262.20	-64.90	FM	Test OK-Accept	
325.00	262.20	-64.90	FM	Test OK-Accept	
328.00	261.90	-64.90	FM	Test OK-Accept	
331.00	262.00	-64.90	FM	Test OK-Accept	
334.00	262.20	-64.90	FM	Test OK-Accept	
337.00	262.30	-64.90	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
340.00	262.10	-64.90	FM	Test OK-Accept	
343.00	262.10	-64.90	FM	Test OK-Accept	
346.00	260.90	-65.00	FM	Test Non-OK	
349.00	262.10	-64.80	FM	Test OK-Accept	
352.00	262.00	-64.80	FM	Test OK-Accept	
355.00	261.80	-64.70	FM	Test OK-Accept	
358.00	261.40	-64.50	FM	Test OK-Accept	
361.00	230.10	-71.50	FM	Test Non-OK	
364.00	260.40	-64.30	FM	Test OK-Accept	
367.00	260.20	-64.20	FM	Test OK-Accept	
370.00	260.00	-64.20	FM	Test OK-Accept	
373.00	261.30	-64.20	FM	Test Non-OK	
376.00	259.80	-64.10	FM	Test OK-Accept	
379.00	259.40	-64.10	FM	Test OK-Accept	
382.00	259.10	-64.10	FM	Test OK-Accept	
385.00	259.60	-64.00	FM	Test OK-Accept	
388.00	259.60	-63.90	FM	Test OK-Accept	
391.00	259.80	-63.90	FM	Test OK-Accept	
394.00	259.80	-63.80	FM	Test OK-Accept	
397.00	259.60	-63.80	FM	Test OK-Accept	
400.00	255.80	-63.70	FM	Test Non-OK	
403.00	259.00	-63.70	FM	Test Non-OK	
406.00	261.70	-63.70	FM	Test Non-OK	
409.00	260.40	-63.60	FM	Test OK-Accept	
412.00	259.40	-63.60	FM	Test OK-Accept	
415.00	266.50	-62.00	FM	Test Non-OK	
418.00	260.20	-63.70	FM	Test OK-Accept	
421.00	259.70	-63.60	FM	Test Non-OK	
424.00	258.70	-63.60	FM	Test Non-OK	
427.00	260.50	-63.60	FM	Test OK-Accept	
430.00	260.60	-63.60	FM	Test OK-Accept	
433.00	260.70	-63.60	FM	Test OK-Accept	
436.00	260.70	-63.60	FM	Test OK-Accept	
439.00	260.90	-63.50	FM	Test OK-Accept	
442.00	261.00	-63.50	FM	Test OK-Accept	
445.00	260.90	-63.50	FM	Test OK-Accept	
448.00	260.80	-63.60	FM	Test OK-Accept	
451.00	261.00	-63.50	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
454.00	261.30	-63.40	FM	Test OK-Accept	
457.00	261.20	-63.40	FM	Test OK-Accept	
460.00	261.40	-63.40	FM	Test OK-Accept	
463.00	261.60	-63.30	FM	Test OK-Accept	
466.00	261.70	-63.30	FM	Test OK-Accept	
469.00	261.50	-63.30	FM	Test OK-Accept	
472.00	261.70	-63.20	FM	Test OK-Accept	
475.00	261.90	-63.20	FM	Test OK-Accept	
478.00	261.70	-63.10	FM	Test OK-Accept	
481.00	261.80	-63.10	FM	Test OK-Accept	
484.00	261.80	-63.00	FM	Test OK-Accept	
487.00	261.80	-62.90	FM	Test OK-Accept	
490.00	261.80	-62.90	FM	Test OK-Accept	
493.00	261.90	-62.80	FM	Test OK-Accept	
496.00	261.70	-62.80	FM	Test OK-Accept	
499.00	262.20	-62.80	FM	Test OK-Accept	
502.00	262.20	-62.70	FM	Test OK-Accept	
505.00	262.10	-62.80	FM	Test OK-Accept	
508.00	262.40	-62.60	FM	Test OK-Accept	
511.00	262.70	-62.50	FM	Test OK-Accept	
514.00	263.70	-62.80	FM	Test OK-Accept	

## Lithology Data

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
12.00	73.30	S6g	HJ	BD	LA		S6g			GM	VM	1	Aph				
73.30	92.40	I3A	HJ	FO	MA		I3A Chl-Cal			VM		1	MG		63.00		SHP
92.40	98.20	S6g	HJ	BD	LA		S6g			GM	VM	1	FG		65.00		SHP
98.20	129.20	I3A	HK	FO			I3A Chl-Cal			VM		1	MG		85.00		SHP
129.20	132.10	S6g	BD	HJ			S6g			GM	VM	1	FG		69.00		SHP
132.10	155.10	I3A	HK	FO			I3A Chl-Cal			VM		1	MG		60.00		SHP
155.10	199.20	S6g	HK	BD	LA		S6g			GM	VM	1	FG				
199.20	218.00	I3A	FO	MA	HJ	POR	I3A QZ			VL		1	MG		65.00		SHP
218.00	328.80	I3A	FO	MA	HJ		I3A			VM		1	MG				DIF
328.80	331.00	I3A	FO	MA	HJ		I3A QZ			VM		1	MG				DIF
331.00	355.00	I3A	FO	MA	HK	POR	I3A			VM		1	MG				DIF
355.00	371.90	S6g	HJ	LA			S6g			GM	VM	1	FG				IRR
371.90	380.00	S6	LA	HJ	BD		S6			BK		1	Aph		66.00		FLT
380.00	391.00	S9	HJ	BD	BX		S9C Sid	20.00	Carbonate	VM		3	FG		61.00		SHP
391.00	392.50	S6g	LA	HJ			S6g GP			GD	BK	1	Aph		68.00		SHP
392.50	398.20	S9	HJ	BD	MA		S9C Sid			GL	VM	3	FG		65.00		SHP
398.20	426.15	S6	HJ	LA			S6 GP			BG		1	Aph		55.00		SHP
426.15	428.75	S6-S9	BD	LA	HJ		S6-S9	7.00	Silica	BK	GD	2	FG				DIF
428.75	435.70	S6	LA	HJ			S6 GP			BK		1	Aph		61.00		SHP
435.70	438.30	S9	HJ	MA	BD		S9C	15.00	Silica	VM	GM	3	FG		87.00		SHP

Intercalled black shale and iron formation millimetric layers.

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
438.30	441.00	S6g	HJ	LA	BD		S6g GP			GD		1	FG		81.00	SHP	
441.00	448.50	S9	HK	BD	BX		S9	20.00	Silica	GM	VM	3	FG		64.00	SHP	Local breached cherts
448.50	454.55	S6	HJ	LA			S6 GP			BK		1	Aph		60.00	SHP	
454.55	460.30	S6-S9	HG	HJ	LA	BD	S6-S9	20.00	Silica	GM	BK	2	FG				IRR
460.30	469.40	S6	HJ	LA	BD		S6 GP	5.00	Oxyde	BK		1	Aph		65.00	SHP	Millimeter scale chert bed in S0
469.40	474.60	S9	HK	BD	BX		S9C	40.00	Silica	GM	VL	3	FG		64.00	SHP	
474.60	478.80	S6	HK	LA	BD	BX	S6 GP	5.00	Oxyde	BK		1	Aph		74.00	SHP	Local breached chert clast
478.80	502.20	S9	HK	BD	BX	CK	S9C Sid	5.00	Silica	GM	VM	3	FG		74.00	SHP	Locall conglomeratic texture with streeched centimeter scale chert and quartz clast. The upper contact contained up to 30 % of chert clast and bands.
502.20	513.60	S6	HJ	BD	LA		S6 GP			BK		1	Aph				
513.60	514.50	S9	HJ	MA			S9C Sid	5.00	Silica	GM	VM	3	FG				

**Mineralization Data**

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
12.00	70.00		Po	0.10	DI	PER											
70.00	73.30		Po	2.00	SS	BD											
73.30	92.40		Po	0.10	DI	PER											
92.40	95.50		Po	3.00	SS	BD											
95.50	97.00		Po	0.10	DI	PER											
97.00	98.20		Po	2.00	AL	BD											
129.20	132.10		Po	1.00	AL	BD											
136.50	139.00		Po	0.10	SS	BD											
161.00	165.00		Po	2.00	AL	VN											
165.00	171.00		Po	0.10	DI	VN											
171.00	194.00		Po	0.10	DI	VN		Po	0.50	DI	PER						
194.00	199.20		Po	1.00	DI	VN											
218.00	328.80		Po	0.10	DI	PER											
355.00	371.90		Po	0.10	DI	VN		Po	0.50	DI	VN						
371.90	377.00		Po	6.00	SS	BD		Py	4.00	SUB	BD						
377.00	380.00		Py	5.00	SUB	PER		Po	17.00	SSM	BD						
380.00	382.50		Po	2.00	AL	VN											
382.50	391.00		Po	0.10	AL	VN											
391.00	392.50		Po	2.00	AL	VN											
392.50	398.20		Po	1.50	DI	PER											
398.20	426.15		Po	6.00	SS	BD		Py	4.00	SUB	BD						
426.15	428.75		Po	3.00	SS	BD		Py	1.00	DI	PER						
428.75	435.70		Po	6.00	SS	BD		Py	4.00	SUB	BD						
435.70	438.30		Po	1.00	DI	VN		Po	0.10	DI	PER						
438.30	441.00		Po	0.10	DI	PER											
441.00	448.50		Po	1.00	DI	VN		Po	0.10	DI	PER						
448.50	454.55		Po	33.00	SS	BD		Py	4.00	SUB	BD						
454.55	460.30		Po	1.00	SS	BD		Py	1.00	DI	BD						
460.30	469.40		Py	6.00	SUB	BD		Po	3.00	SS	BD						
469.40	474.60		Po	0.10	DI	PER											
474.60	478.80		Po	2.00	SS	BD		Py	2.00	DI	BD						
478.80	502.20		Po	0.10	DI	PER											

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
502.20	513.60		Po	3.00	AL	BD		Py	5.00	SUB	BD						
513.60	514.50		Py	0.10	SUB	PER		Po	0.10	AL	PER						



Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
46.00	48.00	Ank	1	DI							
48.00	73.30	NO ALT									
73.30	92.40	CC	4	DI							
92.40	98.20	NO ALT									
98.20	129.20	CC	4	DI							
129.20	132.10	Ank	1	DI							
132.10	144.00	CC	3	DI							
144.00	151.00	NO ALT									
151.00	155.10	CC	3	DI							
155.10	181.00	NO ALT									
181.00	192.20	CC	2	VN	Chl	2	DI				
192.20	199.20	NO ALT									
199.20	218.00	CC	3	DI	Ank	2	DI				
218.00	349.00	NO ALT									
349.00	355.00	CC	1	DI							
355.00	371.90	CC	2	DI	Ank	2	DI				
371.90	380.00	NO ALT									
380.00	382.50	Ank	3	VN	Chl	3	VN				
382.50	391.00	Ank	1	VN	Chl	1	VN				
391.00	392.50	Ank	2	DI	Ank	1	VN				
392.50	398.20	Ank	3	VN							
398.20	426.15	Ank	1	VN							
426.15	435.70	NO ALT				1					
435.70	438.30	Ank	1	VN	Chl	1	VN				
438.30	441.00	NO ALT									
441.00	448.50	Ank	1	VN	Chl	1	VN				
448.50	478.80	NO ALT									
478.80	502.20	Ank	1	VN	Chl	1	VN				
502.20	513.60	NO ALT									
513.60	514.50	Ank	1	VN	Chl	1	VN				

## Vein Data

From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
12.00	33.50	0.10		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	2.00					85.00					
33.50	34.50	15.00	15.00	I1N	UNK	Vein >5cm	QZ	97.00	AK	2.00	CL	1.00			75.00	Po	0.10			
34.50	72.00	0.10		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	2.00										
72.00	73.30	15.00	3.00	I1N	UNK	Vein >5cm	QZ	97.00	AK	3.00										
73.30	82.00	0.10	1.00	I1N	UNK	Veinlet <5cm	QZ	90.00	CC	10.00										
82.00	83.50	60.00	25.00	I1N	UNK	Vein >5cm	QZ	60.00	CC	40.00										
83.50	92.40	0.10	1.00	I1N	UNK	Veinlet <5cm	QZ	90.00	CC	10.00										
98.20	129.20	2.00		I1N	UNK	Veinlet <5cm	QZ	90.00	CC	10.00										
129.20	132.10	0.50	3.00	I1N	UNK	Veinlet <5cm	QZ	95.00	CC	5.00										
132.10	136.50	0.10	1.00	I1N	UNK	Veinlet <5cm	QZ	90.00	CC	10.00										
136.50	139.50	8.00	3.00	I1N	UNK	Vein >5cm	QZ	85.00	AK	10.00	CC	5.00								
155.10	161.00	1.00		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	1.00	CC	1.00			66.00					
161.00	165.00	17.00		I1N	UNK	Vein >5cm	QZ	95.00	AK	3.00	CC	2.00				Po	2.00			
165.00	169.00	1.00		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	2.00										
169.00	171.00	10.00	6.00	I1N	UNK	Vein >5cm	QZ	93.00	AK	4.00	CC	1.00				Po	0.10			
171.00	194.00	3.00		I1N	UNK	Veinlet <5cm	QZ	97.00	AK	2.00	CC	1.00			70.00					
194.00	199.20	15.00		I1N	UNK	Vein >5cm	QZ	87.00	CL	10.00	AK	3.00			48.00	Po	1.00			
199.20	259.00	1.00		I1N	UNK	Veinlet <5cm	QZ	20.00	CC	80.00										
259.00	260.00	2.00		I1N	UNK	Veinlet <5cm	QZ	90.00	AK	5.00	CL	5.00								
260.00	331.00	1.00		I1N	UNK	Veinlet <5cm	QZ	20.00	CC	80.00										
349.00	355.00	4.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00										
355.00	371.90	5.00		I1N	UNK	Veinlet <5cm	QZ	80.00	AK	20.00						Po	0.10			
371.90	380.00	1.00		I1N	UNK	Veinlet <5cm	QZ	100.00												
380.00	382.50	30.00		I1N	UNK	Vein >5cm	QZ	87.00	AK	7.00	CL	7.00				Po	2.00			

From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments	
382.50	391.00	2.00		I1N	UNK	Vein >5cm	QZ	87.00	AK	7.00	CL	7.00									
391.00	392.50	0.10		I1N	UNK	Veinlet <5cm	QZ	50.00	AK	50.00											
392.50	398.20	2.00		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	5.00											
398.20	426.15	6.00		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	2.00											
426.15	435.70	1.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00											
435.70	438.30	10.00		I1N	UNK	Vein >5cm	QZ	98.00	AK	1.00	CL	1.00			54.00	Po	1.00				
438.30	441.00	1.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00											
445.00	448.50	60.00		I1N	UNK	Vein >5cm	QZ	96.00	AK	4.00	CL	1.00				Po	1.00			Irregular veins	
448.50	469.40	1.00		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00											
469.40	474.60	1.50		I1N	UNK	Vein >5cm	QZ	96.00	AK	3.00	CL	1.00				Po	0.10				
474.60	478.80	0.10		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00											
478.80	480.00	8.00		I1N	UNK	Vein >5cm	QZ	90.00	AK	8.00	CL	2.00				Po	0.10				
480.00	502.20	1.00		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	1.00	CL	1.00				Po	0.10				
502.20	513.60	0.10		I1N	UNK	Veinlet <5cm	QZ	100.00								Po	2.00				
513.60	514.50	10.00		I1N	UNK	Vein >5cm	QZ	96.00	AK	4.00											

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
25.00	26.00	FLD	4		D1 folding
32.00	33.00	FLD			D2 folding
98.20	109.00	FLT	2		Sheared gabbro
138.50	142.00	FLT	2		Sheared gabbro

## Oriented Structure Data

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
14.40	S2		47.00										
18.70	S0		56.00										
19.60	VN		41.00										
22.50	S0		76.00										
22.80	S2		36.00										
24.20	S0		71.00	104.00	260.77	-66.30	-26.18	36.50	0.00	126.50			
25.20	S0		70.00	108.00	260.83	-66.30	-25.45	40.02	0.00	130.02			
25.30			90.00	0.00	260.83	-66.30	-23.70	350.83	0.00	80.83	0.00	FAXIS	
25.30	AxialPlane		90.00	0.00	260.83	-66.30	-23.70	350.83	0.00	80.83			
26.30	S0		69.00	282.00	260.88	-66.32	-34.41	312.54	0.00	42.54			
27.80	S0		59.00	276.00	260.83	-66.37	-40.21	298.33	0.00	28.33			
30.40	S0		81.00	31.00	261.00	-66.33	-31.70	359.82	0.00	89.82			
33.40	S0		67.00	308.00	261.18	-66.30	-41.74	323.64	0.00	53.64			
33.90	VN		74.00	24.00	260.77	-66.40	-38.73	1.09	0.00	91.09			
39.80	S0		63.00	208.00	261.30	-66.30	-12.32	258.91	0.00	348.91			
44.10	S0		59.00	270.00	261.53	-66.30	-38.29	295.31	0.00	25.31			
46.30	S0		68.00	274.00	261.60	-66.28	-33.03	308.32	0.00	38.32			
47.70	S0		74.00	264.00	261.60	-66.23	-26.96	314.39	0.00	44.39			
48.10	S2		44.00	322.00	261.60	-66.22	-65.98	322.60	0.00	52.60			
48.10	S2		44.00	322.00	261.60	-66.22	-65.98	322.60	0.00	52.60			
48.90	S2		48.00	334.00	261.60	-66.20	-64.07	332.56	0.00	62.56			
49.30	S0		59.00	278.00	261.60	-66.20	-40.94	300.50	0.00	30.50			
52.10	S0		61.00	262.00	261.55	-66.20	-34.16	292.79	0.00	22.79			
52.40	S2		50.00	332.00	261.55	-66.20	-61.84	331.53	0.00	61.53			
57.40	S0		64.00	304.00	261.75	-66.15	-43.70	320.01	0.00	50.01			
58.80	S0		64.00	302.00	261.75	-66.10	-43.31	318.93	0.00	48.93			
64.60	S0		65.00										
67.40	S0		66.00	302.00	261.30	-66.00	-41.68	320.05	0.00	50.05			
71.40	S0		68.00										
106.10	VN		56.00	328.00	261.00	-65.62	-55.99	330.06	0.00	60.06			
117.50	S1		51.00	298.00	261.25	-65.60	-54.15	307.97	0.00	37.97			
122.60	S1		43.00	286.00	261.23	-65.60	-57.47	294.73	0.00	24.73			
127.20	S1		65.00	334.00	261.55	-65.50	-48.15	337.15	0.00	67.15			
131.30	S0		75.00										

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
134.40	S1		64.00	348.00	261.53	-65.47	-50.24	344.72	0.00	74.72			
136.50	VN		47.00										
139.30	VN		69.00	2.00	261.53	-65.37	-45.63	352.54	0.00	82.54			
145.80	S1		60.00	278.00	260.70	-66.30	-40.09	300.45	0.00	30.45			
147.70	S1		60.00	278.00	261.63	-65.20	-40.80	302.37	0.00	32.37			
150.50	S0		58.00	100.00	261.60	-65.20	-36.06	54.06	0.00	144.06			
152.50	S1		66.00	306.00	261.70	-65.20	-43.20	322.97	0.00	52.97			
160.50	S2		26.00	120.00	262.13	-65.20	-54.09	98.19	0.00	188.19			
162.20	S0		59.00	292.00	262.15	-65.25	-45.76	310.35	0.00	40.35			
165.30	VN		66.00	88.00	262.17	-65.30	-34.51	38.01	0.00	128.01			
166.50	S0		67.00	222.00	262.20	-65.30	-16.74	287.01	0.00	17.01			
166.80			62.00	160.00	262.20	-65.30	-9.42	93.42	0.00	183.42	100.00	FAXIS	
166.80	AxialPlane		62.00	160.00	262.20	-65.30	-9.42	93.42	0.00	183.42			
174.20	S0		82.00	270.00	262.23	-65.20	-25.98	333.71	0.00	63.71			
181.30	S0		70.00	0.00	262.25	-65.20	-44.80	352.25	0.00	82.25			
188.10	S0		70.00										
192.00	VN		65.00	110.00	262.33	-65.10	-28.00	50.09	0.00	140.09			
196.40	S0		70.00	40.00	262.37	-65.00	-42.19	11.47	0.00	101.47			
196.50	S2		45.00	0.00	262.37	-65.00	-70.00	352.37	0.00	82.37			
197.10	S0		62.00	158.00	262.30	-65.00	-10.20	89.22	0.00	179.22			
198.70	VN		48.00	8.00	262.23	-65.00	-66.83	358.05	0.00	88.05			
206.40	S1		77.00	256.00	262.50	-64.90	-25.12	321.55	0.00	51.55			
210.10	S1		68.00	278.00	262.50	-64.97	-35.11	312.34	0.00	42.34			
217.00	S1		38.00	344.00	262.43	-64.90	-76.34	339.52	0.00	69.52			
220.30	S1		58.00	288.00	262.37	-64.90	-45.69	307.60	0.00	37.60			
224.00	S1		45.00	290.00	262.23	-64.98	-57.42	300.18	0.00	30.18			
229.30	S1		43.00	326.00	262.33	-64.90	-68.88	326.33	0.00	56.33			
231.40	S1		56.00	288.00	262.37	-64.90	-47.36	306.06	0.00	36.06			
232.40	S1		49.00	282.00	262.30	-64.90	-51.28	296.96	0.00	26.96			
236.00	S1		46.00	284.00	262.20	-64.90	-54.54	296.36	0.00	26.36			
236.00	S1		46.00	284.00	262.20	-64.90	-54.54	296.36	0.00	26.36			
239.20	S1		46.00	270.00	262.17	-64.90	-49.35	285.88	0.00	15.88			
248.70	S1		38.00	310.00	262.03	-64.90	-69.96	312.05	0.00	42.05			
286.20	S1		54.00	236.00	261.90	-64.92	-29.30	267.21	0.00	357.21			
299.40	S1		38.00	290.00	250.97	-66.83	-62.61	284.46	0.00	14.46			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
313.50	S1		47.00	234.00	260.05	-64.12	-33.59	255.76	0.00	345.76			
320.40	S1		32.00	350.00	259.43	-64.03	-83.64	340.91	0.00	70.91			
339.20	S1		32.00	254.00	261.27	-63.67	-54.65	263.06	0.00	353.06			
340.80	VN		57.00										
345.60	S1		86.00	182.00	265.32	-62.27	-23.74	354.97	0.00	84.97			
352.30	VN		78.00	218.00	259.20	-63.60	-18.38	325.25	0.00	55.25			
356.80	S2		48.00										
359.30	VN		49.00										
363.60	S0		65.00										
365.50	S2		53.00										
370.40	S2		52.00	18.00	260.93	-63.50	-63.64	3.19	0.00	93.19			
370.80	S0		38.00	0.00	260.92	-63.50	-78.50	350.92	0.00	80.92			
371.90	CNT		65.00										
376.40	S0		69.00										
378.50	S0		69.00	292.00	261.25	-63.42	-39.21	319.54	0.00	49.54			
381.40	S0		44.00	302.00	261.23	-63.40	-63.23	308.13	0.00	38.13			
384.40	CNT		74.00										
389.80	S0		37.00	308.00	261.60	-63.30	-71.54	310.03	0.00	40.03			
391.00	CNT		61.00										
392.70	CNT		68.00										
396.20	S0		74.00	300.00	261.87	-63.18	-37.28	328.66	0.00	58.66			
396.60	S0		46.00	316.00	261.83	-63.17	-65.40	319.78	0.00	49.78			
398.20	CNT		65.00										
403.80	S0		53.00										
407.20	S0		36.00	0.00	261.80	-62.90	-81.10	351.80	0.00	81.80			
410.30	S0		59.00										
417.30	S0		62.00	204.00	262.20	-62.75	-11.09	269.07	0.00	359.07			
418.40	VN		66.00	216.00	262.20	-62.72	-15.69	290.05	0.00	20.05			
426.10	CNT		55.00	192.00	262.87	-62.55	-9.75	217.62	0.00	307.62			
426.30			39.00	298.00	262.87	-62.55	-67.03	304.68	0.00	34.68	104.00	FAXIS	
426.30	AxialPlane		39.00	298.00	262.87	-62.55	-67.03	304.68	0.00	34.68			
426.40	S0		65.00	222.00	262.87	-62.55	-18.37	289.06	0.00	19.06			
428.70	S0		46.00										
431.90	S0		64.00										
435.90	CNT		61.00	102.00	263.70	-62.80	-34.52	50.52	0.00	140.52			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
436.40	VN		54.00										
437.00	S0		71.00	44.00	263.70	-62.80	-42.78	13.15	0.00	103.15			
438.20	CNT		87.00	0.00	263.70	-62.80	-30.20	353.70	0.00	83.70			
440.20	S0		75.00	70.00	263.70	-62.80	-35.05	18.76	0.00	108.76			
441.00	CNT		80.00										
444.20	S0		79.00										
446.00	S0		50.00										
448.50	CNT		64.00										
451.30	S0		64.00	10.00	263.70	-62.80	-52.98	359.17	0.00	89.17			
457.20	S0		64.00										
459.20	AxialPlane		68.00										
459.70	S0		68.00										
461.30	S0		76.00										
465.90	S0		67.00										
468.60	S0		60.00	48.00	263.70	-62.80	-51.88	21.88	0.00	111.88			
468.60	S0		60.00	48.00	263.70	-62.80	-51.88	21.88	0.00	111.88			
469.40	CNT		65.00	28.00	263.70	-62.80	-50.54	8.59	0.00	98.59			
471.60	S0		65.00	0.00	263.70	-62.80	-52.20	353.70	0.00	83.70			
473.30	S0		59.00	298.00	263.70	-62.80	-49.32	316.85	0.00	46.85			
474.50	CNT		65.00										
474.60	CNT		65.00										
477.20	S0		67.00										
477.20	S0		67.00										
478.80	CNT		74.00										
478.80	CNT		74.00										
479.40	VN		80.00										
482.90	S0		71.00	306.00	263.70	-62.80	-41.11	330.08	0.00	60.08			
485.20	S0		71.00										
490.20	S0		80.00	278.00	263.70	-62.80	-30.13	333.67	0.00	63.67			
494.90	S0		71.00	282.00	263.70	-62.80	-35.90	320.81	0.00	50.81			
499.20	S0		79.00	310.00	263.70	-62.80	-35.21	339.02	0.00	69.02			
502.20	CNT		74.00	8.00	263.70	-62.80	-43.10	356.92	0.00	86.92			
502.80	S0		74.00	306.00	263.70	-62.80	-38.66	332.78	0.00	62.78			
513.60	CNT		68.00	332.00	263.70	-62.80	-47.67	339.94	0.00	69.94			
514.10	S0		68.00	300.00	263.70	-62.80	-42.35	324.91	0.00	54.91			

## Sample Data - ASSAY

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558024	12.00	14.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.003	0.200	3.30	36.00	3.27	443.0	0.031	111.00	2.55	35.20	91.00
558025	14.00	16.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.002	0.170	11.60	39.10	3.23	469.0	0.039	110.00	4.03	37.70	87.00
558026	16.00	18.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.002	0.170	20.00	41.80	3.08	329.0	0.035	136.00	3.96	36.50	104.00
558027	18.00	20.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.003	0.330	0.60	47.60	3.17	216.0	0.019	132.00	3.10	36.90	79.00
558028	20.00	22.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.004	0.180	0.80	46.80	3.19	154.0	0.020	126.00	2.99	37.80	75.00
558030	22.00	24.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.002	0.130	1.20	35.90	3.47	306.0	0.009	96.00	1.39	33.00	87.00
558031	24.00	26.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.001	0.100	5.00	33.90	3.53	278.0	0.003	79.00	0.45	31.90	78.00
558032	26.00	28.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.003	0.200	0.30	37.70	3.76	359.0	0.008	105.00	1.69	35.00	89.00
558033	28.00	30.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.002	0.150	0.40	39.00	3.73	363.0	0.013	100.00	1.48	34.20	87.00
558034	30.00	32.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.001	0.100	2.10	44.20	3.65	292.0	0.009	85.00	0.60	29.90	81.00
558035	32.00	34.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.001	0.150	4.10	47.20	3.61	321.0	0.003	77.00	0.54	31.30	78.00
558037	34.00	36.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.001	0.110	7.10	33.80	3.80	327.0	0.005	74.00	0.50	33.20	82.00
558038	36.00	38.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.001	0.100	9.20	30.70	3.83	331.0	0.009	74.00	0.43	34.20	82.00
558039	38.00	40.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.001	0.080	4.10	43.50	4.07	304.0	0.005	76.00	0.36	32.40	96.00
558040	40.00	42.00	2.00	2	VO18223930 - Finalized	25/09/2018	0.001	0.070	3.00	59.30	3.99	273.0	0.006	81.00	0.52	34.70	79.00
558041	42.00	44.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.002	0.290	23.90	150.00	3.65	247.0	0.029	100.00	0.47	37.10	92.00
558042	44.00	46.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.003	0.110	1.70	34.20	3.91	253.0	0.020	91.00	1.29	32.10	135.00
558043	46.00	48.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.001	0.210	0.20	37.90	2.95	293.0	0.022	114.00	3.32	36.00	79.00
558044	48.00	50.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.002	0.170	0.60	42.20	2.97	272.0	0.014	117.00	3.42	36.60	54.00
558045	50.00	52.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.001	0.190	11.20	67.90	6.80	931.0	0.009	143.00	1.56	61.20	103.00
558046	52.00	54.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.002	0.110	0.90	46.50	7.15	432.0	0.011	71.00	0.35	27.50	95.00
558047	54.00	56.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.001	0.080	4.40	35.70	6.27	316.0	0.003	91.00	0.29	32.70	72.00
558048	56.00	58.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.001	0.070	0.10	27.40	4.96	172.0	0.003	78.00	0.57	31.10	69.00
558050	58.00	60.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.001	0.070	0.10	26.80	5.17	225.0	0.003	80.00	0.32	28.30	66.00
558051	60.00	62.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.001	0.070	5.70	23.40	4.09	174.0	0.003	80.00	0.52	30.70	67.00
558052	62.00	64.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.001	0.110	1.20	26.30	4.43	230.0	0.003	93.00	0.81	31.00	70.00
558053	64.00	66.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.007	0.100	1.30	31.30	4.53	167.0	0.005	95.00	0.71	31.00	73.00
558054	66.00	68.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.001	0.180	1.60	57.70	3.78	183.0	0.007	89.00	1.46	32.80	73.00
558055	68.00	70.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.005	0.280	1.60	65.10	5.67	343.0	0.059	170.00	2.87	39.50	219.00
558057	70.00	72.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.009	0.320	1.80	80.10	6.38	603.0	0.062	216.00	4.10	45.90	258.00
558058	72.00	73.30	1.30	2	VO18223954 - Finalized	24/09/2018	0.001	0.080	18.60	37.70	7.18	1,580.0	0.007	167.00	3.87	45.70	96.00
558059	73.30	75.00	1.70	2	VO18223954 - Finalized	24/09/2018	0.001	0.240	41.90	145.00	8.66	2,030.0	0.016	305.00	0.27	106.00	94.00
558060	75.00	77.00	2.00	2	VO18223954 - Finalized	24/09/2018	0.002	0.180	28.40	145.00	8.63	1,570.0	0.033	325.00	0.21	121.00	95.00
558061	77.00	79.00	2.00	2	VO18223949 - Finalized	24/09/2018	0.001	0.100	15.00	132.00	9.04	1,580.0	0.037	340.00	0.28	126.00	96.00
558062	79.00	81.00	2.00	2	VO18223949 - Finalized	24/09/2018	0.003	0.070	9.30	136.50	8.67	1,380.0	0.063	320.00	0.31	139.00	97.00
558063	81.00	83.00	2.00	2	VO18223949 - Finalized	24/09/2018	0.001	0.060	18.80	145.00	8.89	1,420.0	0.033	295.00	0.22	192.00	97.00



Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558064	83.00	85.00	2.00	2	VO18223949 - Finalized	24/09/2018	0.001	0.050	23.90	118.50	8.18	1,310.0	0.026	274.00	0.26	171.00	95.00
558065	85.00	87.00	2.00	2	VO18223949 - Finalized	24/09/2018	0.001	0.060	6.10	136.50	8.74	1,410.0	0.036	337.00	0.22	81.80	93.00
558066	87.00	89.00	2.00	2	VO18223949 - Finalized	24/09/2018	0.001	0.050	11.70	116.00	8.96	1,220.0	0.032	348.00	0.26	87.10	78.00
558067	89.00	91.00	2.00	2	VO18223949 - Finalized	24/09/2018	0.001	0.080	22.70	165.00	9.02	964.0	0.018	337.00	0.24	75.50	81.00
558068	91.00	92.40	1.40	2	VO18223949 - Finalized	24/09/2018	0.001	0.060	17.80	129.50	13.80	651.0	0.014	377.00	0.26	97.20	106.00
558070	92.40	94.00	1.60	2	VO18223949 - Finalized	24/09/2018	0.002	0.060	0.50	62.00	8.94	329.0	0.022	208.00	3.14	61.10	88.00
558071	94.00	96.00	2.00	2	VO18223949 - Finalized	24/09/2018	0.004	0.090	0.50	51.90	10.70	671.0	0.027	240.00	3.52	59.60	111.00
558072	96.00	98.20	2.20	2	VO18223949 - Finalized	24/09/2018	0.006	0.090	0.50	32.70	11.20	926.0	0.040	201.00	3.41	59.90	111.00
558073	98.20	100.00	1.80	2	VO18223949 - Finalized	24/09/2018	0.001	0.120	34.90	131.00	9.88	1,020.0	0.021	335.00	0.24	85.30	87.00
558074	100.00	102.00	2.00	2	VO18223949 - Finalized	24/09/2018	0.002	0.070	28.00	131.00	8.48	1,370.0	0.032	329.00	0.21	81.50	83.00
558075	102.00	104.00	2.00	2	VO18223949 - Finalized	24/09/2018	0.001	0.080	37.40	119.50	9.53	1,320.0	0.019	331.00	0.21	84.20	85.00
558077	104.00	106.00	2.00	2	VO18223949 - Finalized	24/09/2018	0.001	0.090	28.30	173.50	11.45	1,080.0	0.032	319.00	0.57	82.80	89.00
558078	106.00	108.00	2.00	2	VO18223949 - Finalized	24/09/2018	0.002	0.090	38.40	141.50	10.00	1,020.0	0.019	351.00	0.49	94.90	94.00
558079	108.00	110.00	2.00	2	VO18223949 - Finalized	24/09/2018	0.002	0.070	34.30	146.00	10.15	774.0	0.023	383.00	0.25	88.70	95.00
558080	110.00	112.00	2.00	2	VO18223949 - Finalized	24/09/2018	0.001	0.040	20.20	113.00	9.54	765.0	0.028	369.00	0.20	90.70	88.00
558081	112.00	114.00	2.00	2	VO18223962 - Finalized	25/09/2018	0.001	0.060	15.70	145.00	9.23	758.0	0.033	370.00	0.23	89.40	80.00
558082	114.00	116.00	2.00	2	VO18223962 - Finalized	25/09/2018	0.001	0.050	16.40	152.50	8.92	952.0	0.039	342.00	0.19	105.00	86.00
558083	116.00	118.00	2.00	2	VO18223962 - Finalized	25/09/2018	0.001	0.050	15.10	134.50	8.61	1,120.0	0.029	294.00	0.16	149.50	85.00
558084	118.00	120.00	2.00	2	VO18223962 - Finalized	25/09/2018	0.001	0.050	10.30	144.00	8.78	1,150.0	0.056	318.00	0.20	167.50	88.00
558085	120.00	122.00	2.00	2	VO18223962 - Finalized	25/09/2018	0.001	0.050	10.60	139.00	9.07	1,440.0	0.048	316.00	0.18	179.50	96.00
558086	122.00	124.00	2.00	2	VO18223962 - Finalized	25/09/2018	0.001	0.070	5.50	178.00	9.37	1,570.0	0.051	348.00	0.20	136.00	99.00
558087	124.00	126.00	2.00	2	VO18223962 - Finalized	25/09/2018	0.001	0.070	19.80	145.50	9.14	1,420.0	0.047	320.00	0.18	158.50	97.00
558088	126.00	128.00	2.00	2	VO18223962 - Finalized	25/09/2018	0.001	0.100	14.00	149.50	8.68	1,440.0	0.025	306.00	0.17	158.00	96.00
558090	128.00	129.20	1.20	2	VO18223962 - Finalized	25/09/2018	0.002	0.140	17.10	163.00	8.99	1,620.0	0.022	333.00	0.20	126.50	101.00
558091	129.20	131.00	1.80	2	VO18223962 - Finalized	25/09/2018	0.001	0.040	0.90	29.10	8.96	4,070.0	0.013	127.00	1.19	39.40	132.00
558092	131.00	132.10	1.10	2	VO18223962 - Finalized	25/09/2018	0.001	0.130	3.30	31.70	8.72	8,840.0	0.011	128.00	0.80	44.30	190.00
558093	132.10	134.00	1.90	2	VO18223962 - Finalized	25/09/2018	0.001	0.190	24.90	134.50	8.86	1,810.0	0.017	325.00	0.17	123.50	102.00
558094	134.00	136.00	2.00	2	VO18223962 - Finalized	25/09/2018	0.001	0.140	9.20	141.00	8.41	1,360.0	0.029	306.00	0.17	118.00	89.00
558095	136.00	138.00	2.00	2	VO18223962 - Finalized	25/09/2018	0.001	0.160	13.90	136.00	8.36	1,520.0	0.025	301.00	0.18	119.00	92.00
558097	138.00	140.00	2.00	2	VO18223962 - Finalized	25/09/2018	0.001	0.140	26.90	121.50	7.88	1,400.0	0.046	286.00	1.78	106.50	166.00
558098	140.00	142.00	2.00	2	VO18223962 - Finalized	25/09/2018	0.004	0.090	3.20	77.90	5.18	292.0	0.040	198.00	3.48	49.40	170.00
558099	142.00	144.00	2.00	2	VO18223962 - Finalized	25/09/2018	0.001	0.150	5.60	149.50	8.89	1,380.0	0.030	339.00	0.22	86.60	103.00
558100	144.00	146.00	2.00	2	VO18223962 - Finalized	25/09/2018	0.001	0.100	16.40	139.50	8.90	1,420.0	0.033	314.00	0.48	150.50	96.00
558101	146.00	148.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.001	0.070	17.60	136.50	9.22	1,520.0	0.021	311.00	0.36	197.50	94.00
558102	148.00	150.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.001	0.060	31.60	145.50	9.31	1,480.0	0.028	307.00	0.52	213.00	94.00
558103	150.00	152.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.002	0.080	9.70	146.00	8.93	1,460.0	0.027	317.00	0.22	141.50	94.00
558104	152.00	154.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.001	0.100	14.40	150.00	9.19	1,630.0	0.012	332.00	0.23	117.00	101.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558105	154.00	155.10	1.10	2	VO18223970 - Finalized	24/09/2018	0.001	0.050	12.50	35.50	5.12	748.0	0.021	127.00	0.36	41.90	99.00
558106	155.10	157.00	1.90	2	VO18223970 - Finalized	24/09/2018	0.001	0.060	2.60	36.80	4.79	369.0	0.019	75.00	0.97	31.60	93.00
558107	157.00	159.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.001	0.090	0.80	49.40	4.43	252.0	0.014	97.00	1.43	35.30	83.00
558108	159.00	161.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.002	0.080	0.80	51.70	4.23	172.0	0.013	108.00	2.94	37.30	77.00
558110	161.00	163.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.002	0.600	0.20	38.00	4.56	229.0	0.012	105.00	1.76	35.30	72.00
558111	163.00	165.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.001	0.060	2.60	24.40	4.22	182.0	0.009	79.00	1.07	26.90	64.00
558112	165.00	167.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.001	0.060	2.20	24.40	4.86	166.0	0.005	80.00	0.42	33.30	74.00
558113	167.00	169.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.001	0.070	2.00	33.40	4.35	146.0	0.006	98.00	0.42	33.90	72.00
558114	169.00	171.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.001	0.100	0.70	43.10	5.55	185.0	0.009	84.00	0.63	35.30	70.00
558115	171.00	173.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.001	0.060	0.20	32.70	5.53	133.0	0.010	82.00	0.37	31.90	68.00
558117	173.00	175.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.001	0.090	0.10	38.10	6.61	453.0	0.003	74.00	0.43	28.20	84.00
558118	175.00	177.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.001	0.070	1.70	35.70	6.52	498.0	0.008	82.00	0.33	33.40	80.00
558119	177.00	179.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.001	0.050	0.70	31.50	4.97	188.0	0.011	88.00	0.87	32.50	76.00
558120	179.00	181.00	2.00	2	VO18223970 - Finalized	24/09/2018	0.001	0.030	0.10	26.80	5.40	198.0	0.007	79.00	0.41	32.20	79.00
558121	181.00	183.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.002	0.110	1.60	41.00	6.38	911.0	0.016	89.00	1.43	34.30	98.00
558122	183.00	185.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.001	0.090	11.20	80.10	4.89	604.0	0.012	114.00	0.50	47.00	89.00
558123	185.00	187.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.001	0.060	5.20	36.40	4.41	443.0	0.007	68.00	0.40	33.30	74.00
558124	187.00	189.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.001	0.070	16.70	93.70	5.86	1,080.0	0.007	163.00	0.39	54.80	83.00
558125	189.00	191.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.001	0.100	17.70	77.00	6.68	1,200.0	0.017	207.00	0.28	76.00	111.00
558126	191.00	193.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.002	0.170	10.70	152.50	9.52	1,540.0	0.033	264.00	0.23	113.00	143.00
558127	193.00	194.00	1.00	2	VO18223978 - Finalized	24/09/2018	0.001	0.100	20.20	50.10	6.92	2,220.0	0.025	182.00	0.25	75.80	148.00
558128	194.00	196.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.001	0.050	9.60	60.90	5.14	744.0	0.015	100.00	0.80	45.60	103.00
558130	196.00	198.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.001	0.010	5.40	14.20	4.33	504.0	0.013	68.00	0.77	33.20	50.00
558131	198.00	199.20	1.20	2	VO18223978 - Finalized	24/09/2018	0.001	0.010	5.10	1.80	4.37	451.0	0.008	76.00	0.87	35.10	39.00
558132	199.20	201.00	1.80	2	VO18223978 - Finalized	24/09/2018	0.001	0.030	7.50	67.40	9.72	1,490.0	0.005	314.00	0.45	33.00	101.00
558133	201.00	203.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.001	0.050	6.30	93.10	11.10	1,640.0	0.017	493.00	0.37	37.60	112.00
558134	203.00	205.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.001	0.050	5.10	94.60	10.15	1,660.0	0.014	435.00	0.35	49.60	103.00
558135	205.00	207.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.001	0.050	1.10	83.90	10.40	1,720.0	0.012	405.00	0.36	38.10	102.00
558137	207.00	209.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.001	0.040	2.80	115.00	10.20	1,650.0	0.007	491.00	0.35	53.40	102.00
558138	209.00	211.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.002	0.060	2.00	175.50	9.96	1,580.0	0.013	478.00	0.38	46.90	99.00
558139	211.00	213.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.001	0.040	1.10	102.50	9.60	1,540.0	0.009	424.00	0.26	59.90	93.00
558140	213.00	215.00	2.00	2	VO18223978 - Finalized	24/09/2018	0.004	0.020	1.80	86.70	8.75	1,490.0	0.006	390.00	0.24	70.40	84.00
558141	215.00	217.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.020	0.10	136.00	10.05	1,420.0	0.008	475.00	0.41	60.10	86.00
558142	217.00	219.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.030	1.90	144.50	8.55	1,320.0	0.012	430.00	0.29	81.50	75.00
558143	219.00	221.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.010	4.00	31.40	6.71	1,190.0	0.013	229.00	0.21	173.50	60.00
558144	221.00	223.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.010	2.50	28.50	7.31	1,260.0	0.009	247.00	0.16	195.50	62.00
558145	223.00	225.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.010	0.70	36.20	6.89	1,180.0	0.008	268.00	0.14	153.50	61.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558146	225.00	227.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.020	4.20	43.80	7.71	1,240.0	0.011	211.00	0.06	298.00	67.00
558147	227.00	229.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.020	9.10	69.50	7.79	1,200.0	0.011	212.00	0.07	327.00	64.00
558148	229.00	231.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.040	10.10	102.50	8.16	1,240.0	0.020	208.00	0.09	362.00	70.00
558150	231.00	233.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.050	9.00	149.00	7.86	1,220.0	0.033	192.00	0.10	349.00	71.00
558151	233.00	235.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.040	7.40	87.10	7.85	1,260.0	0.019	184.00	0.13	375.00	74.00
558152	235.00	237.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.070	6.90	152.50	7.67	1,220.0	0.026	182.00	0.73	360.00	79.00
558153	237.00	239.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.040	1.10	102.50	8.50	1,330.0	0.012	181.00	0.20	388.00	84.00
558154	239.00	241.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.030	0.10	54.90	8.03	1,290.0	0.008	195.00	0.26	390.00	79.00
558155	241.00	243.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.040	1.00	108.50	8.43	1,360.0	0.017	187.00	0.23	417.00	86.00
558157	243.00	245.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.040	0.50	72.50	8.13	1,310.0	0.019	182.00	0.14	430.00	82.00
558158	245.00	247.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.040	1.30	115.50	8.56	1,400.0	0.018	182.00	0.12	437.00	90.00
558159	247.00	249.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.040	0.10	112.00	8.19	1,330.0	0.026	194.00	0.17	404.00	82.00
558160	249.00	251.00	2.00	2	VO18224002 - Finalized	24/09/2018	0.001	0.020	0.70	55.30	8.53	1,390.0	0.011	182.00	0.13	471.00	87.00
558161	251.00	253.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.030	6.50	58.90	8.54	1,470.0	0.012	175.00	0.17	526.00	95.00
558162	253.00	255.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.030	0.40	45.70	8.20	1,410.0	0.011	160.00	0.11	490.00	91.00
558163	255.00	257.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.030	0.30	68.30	7.49	1,190.0	0.010	168.00	0.14	414.00	80.00
558164	257.00	259.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.050	0.10	145.00	8.23	1,340.0	0.009	169.00	0.17	485.00	94.00
558165	259.00	261.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.030	0.20	71.20	8.18	1,320.0	0.015	167.00	0.17	494.00	92.00
558166	261.00	263.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.030	0.30	66.40	7.95	1,270.0	0.009	167.00	0.31	453.00	91.00
558167	263.00	265.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.040	0.10	122.50	7.83	1,260.0	0.010	164.00	0.16	433.00	91.00
558168	265.00	267.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.040	0.10	89.00	8.43	1,370.0	0.010	171.00	0.13	496.00	96.00
558170	267.00	269.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.040	1.20	87.30	8.03	1,340.0	0.011	171.00	0.15	478.00	94.00
558171	269.00	271.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.040	0.80	73.80	8.37	1,360.0	0.014	167.00	0.12	503.00	95.00
558172	271.00	273.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.020	0.60	51.20	8.70	1,410.0	0.012	157.00	0.15	616.00	97.00
558173	273.00	275.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.010	0.50	12.50	8.94	1,440.0	0.007	174.00	0.09	565.00	97.00
558174	275.00	277.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.030	0.40	56.20	8.80	1,420.0	0.009	191.00	0.12	521.00	96.00
558175	277.00	279.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.020	0.30	39.20	8.72	1,410.0	0.008	175.00	0.10	550.00	98.00
558177	279.00	281.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.040	0.40	115.00	8.12	1,340.0	0.019	156.00	0.17	505.00	95.00
558178	281.00	283.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.030	0.40	55.00	8.30	1,360.0	0.019	161.00	0.14	507.00	97.00
558179	283.00	285.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.030	0.40	58.70	8.09	1,350.0	0.012	171.00	0.07	503.00	96.00
558180	285.00	287.00	2.00	2	VO18223983 - Finalized	25/09/2018	0.001	0.030	0.60	70.00	8.28	1,360.0	0.010	168.00	0.22	524.00	103.00
558181	287.00	289.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.040	1.00	76.20	9.10	1,460.0	0.006	171.00	0.16	559.00	105.00
558182	289.00	291.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.030	0.40	73.70	8.76	1,390.0	0.015	165.00	0.16	525.00	100.00
558183	291.00	293.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.060	0.20	115.50	9.04	1,420.0	0.007	163.00	0.17	547.00	101.00
558184	293.00	295.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.050	0.50	96.80	8.57	1,380.0	0.009	141.00	0.13	531.00	97.00
558185	295.00	297.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.030	0.40	65.20	8.86	1,400.0	0.008	156.00	0.10	517.00	95.00
558186	297.00	299.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.040	0.80	64.90	9.02	1,440.0	0.011	167.00	0.14	554.00	100.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558187	299.00	301.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.030	0.10	72.90	8.62	1,360.0	0.009	167.00	0.12	517.00	94.00
558188	301.00	303.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.050	0.50	122.00	8.27	1,300.0	0.011	156.00	0.14	501.00	89.00
558190	303.00	305.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.040	0.90	86.30	8.87	1,370.0	0.009	165.00	0.17	534.00	98.00
558191	305.00	307.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.040	0.10	76.40	8.67	1,340.0	0.008	168.00	0.19	494.00	94.00
558192	307.00	309.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.030	0.10	72.70	8.73	1,360.0	0.008	162.00	0.17	513.00	96.00
558193	309.00	311.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.050	0.10	108.50	8.62	1,370.0	0.010	164.00	0.16	515.00	94.00
558194	311.00	313.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.030	0.90	81.00	8.25	1,290.0	0.010	170.00	0.13	492.00	87.00
558195	313.00	315.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.060	0.10	112.50	8.45	1,330.0	0.011	176.00	0.19	499.00	90.00
558197	315.00	317.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.080	1.80	114.00	8.30	1,280.0	0.010	188.00	0.14	459.00	79.00
558198	317.00	319.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.050	1.90	129.00	8.27	1,250.0	0.014	206.00	0.20	405.00	74.00
558199	319.00	321.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.040	0.40	102.50	8.02	1,280.0	0.006	253.00	0.17	289.00	67.00
558200	321.00	323.00	2.00	2	VO18223996 - Finalized	24/09/2018	0.001	0.020	0.30	65.40	10.00	1,420.0	0.003	498.00	0.26	67.40	78.00
558201	323.00	325.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.002	0.060	0.30	292.00	7.85	1,230.0	0.008	294.00	0.34	178.00	72.00
558202	325.00	327.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.040	0.20	113.00	7.31	1,210.0	0.007	276.00	0.49	113.50	63.00
558203	327.00	328.80	1.80	2	VO18223988 - Finalized	24/09/2018	0.001	0.040	0.60	127.00	10.55	1,460.0	0.005	423.00	0.44	53.40	102.00
558204	328.80	331.00	2.20	2	VO18223988 - Finalized	24/09/2018	0.001	0.040	0.10	146.00	10.15	1,580.0	0.007	423.00	0.44	58.30	102.00
558205	331.00	333.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.060	0.20	171.50	9.00	1,500.0	0.013	322.00	0.26	125.00	100.00
558206	333.00	335.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.040	0.10	106.50	9.20	1,580.0	0.009	333.00	0.21	146.00	106.00
558207	335.00	337.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.050	0.30	160.50	9.37	1,560.0	0.009	333.00	0.24	151.00	104.00
558208	337.00	339.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.040	0.50	132.50	8.85	1,500.0	0.010	304.00	0.19	153.00	94.00
558210	339.00	341.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.040	2.20	149.00	8.68	1,480.0	0.008	309.00	0.24	89.60	96.00
558211	341.00	343.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.040	0.60	146.50	9.50	1,620.0	0.013	373.00	0.33	80.60	97.00
558212	343.00	345.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.030	2.00	42.50	7.93	1,360.0	0.003	348.00	0.52	78.10	63.00
558213	345.00	347.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.060	1.10	169.50	8.94	1,360.0	0.007	375.00	0.45	68.50	77.00
558214	347.00	349.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.040	4.30	164.00	9.03	1,320.0	0.006	379.00	0.35	68.70	83.00
558215	349.00	351.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.005	3.00	94.00	10.35	1,460.0	0.010	429.00	0.34	63.20	102.00
558217	351.00	353.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.050	1.60	113.50	10.30	1,420.0	0.005	459.00	0.33	42.90	100.00
558218	353.00	355.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.030	4.20	68.20	5.58	729.0	0.003	163.00	0.27	40.60	49.00
558219	355.00	357.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.005	1.50	13.30	4.14	377.0	0.006	70.00	0.29	32.30	21.00
558220	357.00	359.00	2.00	2	VO18223988 - Finalized	24/09/2018	0.001	0.005	5.90	1.60	4.03	382.0	0.003	71.00	0.35	35.20	20.00
558221	359.00	361.00	2.00	2	VO18223985 - Finalized	24/09/2018	0.001	0.010	4.70	6.00	4.03	454.0	0.003	66.00	0.26	31.50	22.00
558222	361.00	363.00	2.00	2	VO18223985 - Finalized	24/09/2018	0.003	0.020	7.40	21.60	4.04	296.0	0.003	75.00	0.31	33.60	44.00
558223	363.00	365.00	2.00	2	VO18223985 - Finalized	24/09/2018	0.001	0.060	30.50	47.60	5.86	655.0	0.006	175.00	0.31	56.30	67.00
558224	365.00	367.00	2.00	2	VO18223985 - Finalized	24/09/2018	0.001	0.040	14.20	53.20	5.57	505.0	0.003	134.00	0.55	41.40	90.00
558225	367.00	369.00	2.00	2	VO18223985 - Finalized	24/09/2018	0.001	0.030	0.70	32.70	4.49	182.0	0.011	90.00	1.24	31.50	75.00
558226	369.00	371.00	2.00	2	VO18223985 - Finalized	24/09/2018	0.009	0.080	4.60	43.00	4.53	180.0	0.035	94.00	3.61	40.70	118.00
558227	371.00	371.90	0.90	2	VO18223985 - Finalized	24/09/2018	0.004	0.310	10.10	108.50	7.59	535.0	0.134	174.00	15.60	94.10	362.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558228	371.90	373.00	1.10	2	VO18223985 - Finalized	24/09/2018	0.040	1.360	273.00	224.00	15.95	3,920.0	0.569	792.00	108.00	233.00	1 440.00
558230	373.00	375.00	2.00	2	VO18223985 - Finalized	24/09/2018	0.039	1.040	82.30	201.00	14.50	1,300.0	0.687	658.00	71.60	192.00	1 410.00
558231	375.00	377.00	2.00	2	VO18223985 - Finalized	24/09/2018	0.021	0.440	61.90	81.00	9.90	362.0	0.398	200.00	12.45	119.50	614.00
558232	377.00	379.00	2.00	2	VO18223985 - Finalized	24/09/2018	0.022	1.400	34.80	217.00	21.80	599.0	1.010	140.00	16.30	132.50	2 040.00
558233	379.00	380.00	1.00	2	VO18223985 - Finalized	24/09/2018	0.007	0.800	1.80	309.00	24.90	1,060.0	0.377	95.00	12.30	132.50	830.00
555542	380.00	381.00	1.00	2	VO18222692 - Finalized	17/09/2018	0.002	0.060	45.80	13.60	16.60	3,870.0	0.006	34.00	2.77	8.10	27.00
555543	381.00	382.00	1.00	2	VO18222692 - Finalized	17/09/2018	1.385	0.030	48.50	14.10	17.80	5,570.0	0.014	22.00	2.57	7.20	31.00
555544	382.00	382.50	0.50	2	VO18222692 - Finalized	17/09/2018	0.017	0.020	3.10	6.00	17.85	8,110.0	0.007	60.00	1.49	5.60	57.00
555545	382.50	384.00	1.50	2	VO18222692 - Finalized	17/09/2018	0.002	0.020	15.00	7.10	21.30	10,900.0	0.003	39.00	0.43	10.60	14.00
555547	384.00	385.00	1.00	2	VO18222692 - Finalized	17/09/2018	0.001	0.010	9.50	2.80	21.90	8,150.0	0.003	18.00	0.27	5.10	7.00
555548	385.00	386.00	1.00	2	VO18222692 - Finalized	17/09/2018	0.002	0.020	6.30	6.90	24.30	7,920.0	0.003	14.00	0.18	3.70	6.00
555549	386.00	387.00	1.00	2	VO18222692 - Finalized	17/09/2018	0.001	0.010	12.70	5.10	22.20	7,500.0	0.003	19.00	0.21	5.40	7.00
555550	387.00	388.00	1.00	2	VO18222692 - Finalized	17/09/2018	0.001	0.020	2.50	6.10	18.90	7,400.0	0.003	21.00	0.35	6.00	13.00
555551	388.00	389.00	1.00	2	VO18222692 - Finalized	17/09/2018	0.001	0.010	0.20	2.40	20.60	6,360.0	0.003	9.00	0.14	2.10	15.00
555552	389.00	390.00	1.00	2	VO18222692 - Finalized	17/09/2018	0.003	0.010	7.30	3.30	17.35	6,480.0	0.003	10.00	0.16	2.90	9.00
555553	390.00	391.00	1.00	2	VO18222692 - Finalized	17/09/2018	0.001	0.120	91.80	17.70	16.40	7,490.0	0.007	118.00	0.91	32.90	58.00
558234	391.00	392.50	1.50	2	VO18223985 - Finalized	24/09/2018	0.003	0.240	60.30	39.10	8.89	505.0	0.010	270.00	2.89	65.90	129.00
555554	392.50	394.00	1.50	2	VO18222692 - Finalized	17/09/2018	0.001	0.200	7.20	56.60	7.05	822.0	0.005	121.00	1.95	41.60	144.00
555555	394.00	395.00	1.00	2	VO18222692 - Finalized	17/09/2018	0.001	0.130	37.20	42.80	7.63	901.0	0.003	108.00	1.55	37.90	172.00
555556	395.00	396.00	1.00	2	VO18222692 - Finalized	17/09/2018	0.001	0.180	5.90	76.60	8.69	872.0	0.003	125.00	1.63	40.90	178.00
555557	396.00	397.00	1.00	2	VO18222692 - Finalized	17/09/2018	0.001	0.160	16.10	65.40	8.07	761.0	0.016	164.00	2.22	48.30	200.00
555558	397.00	398.20	1.20	2	VO18222692 - Finalized	17/09/2018	0.001	0.370	28.70	65.80	7.61	587.0	0.029	161.00	3.54	53.20	176.00
558235	398.20	400.00	1.80	2	VO18223985 - Finalized	24/09/2018	0.023	1.140	80.40	93.80	11.60	324.0	0.263	231.00	15.55	123.50	661.00
558237	400.00	402.00	2.00	2	VO18223985 - Finalized	24/09/2018	0.036	1.260	83.10	137.50	13.35	310.0	0.291	182.00	13.30	155.00	646.00
558238	402.00	404.00	2.00	2	VO18223985 - Finalized	24/09/2018	0.024	0.900	67.60	115.50	10.65	276.0	0.271	190.00	12.95	124.00	691.00
558239	404.00	406.00	2.00	2	VO18223985 - Finalized	24/09/2018	0.029	1.210	88.10	105.00	10.75	316.0	0.366	228.00	15.25	121.00	727.00
558240	406.00	408.00	2.00	2	VO18223985 - Finalized	24/09/2018	0.024	1.020	71.00	177.50	11.55	481.0	0.316	207.00	15.15	136.00	686.00
558241	408.00	410.00	2.00	2	VO18233905 - Finalized	14/10/2018	0.015	2.690	85.80	525.00	16.80	2,200.0	0.698	1 100.00	114.50	267.00	3 130.00
558242	410.00	412.00	2.00	2	VO18233905 - Finalized	14/10/2018	0.017	2.290	143.50	416.00	17.80	2,690.0	0.619	831.00	83.60	260.00	2 630.00
558243	412.00	414.00	2.00	2	VO18233905 - Finalized	14/10/2018	0.023	2.920	182.50	382.00	17.95	1,720.0	0.858	1 400.00	123.50	289.00	3 070.00
558244	414.00	416.00	2.00	2	VO18233905 - Finalized	14/10/2018	0.043	3.550	176.00	260.00	15.10	1,510.0	1.030	1 510.00	141.00	264.00	3 030.00
558245	416.00	418.00	2.00	2	VO18233905 - Finalized	14/10/2018	0.045	3.140	186.00	378.00	15.75	1,400.0	0.981	1 580.00	149.00	330.00	2 690.00
558246	418.00	420.00	2.00	2	VO18233905 - Finalized	14/10/2018	0.031	2.170	347.00	177.50	14.80	1,780.0	1.245	1 140.00	103.00	299.00	2 080.00
558247	420.00	422.00	2.00	2	VO18233905 - Finalized	14/10/2018	0.048	2.860	362.00	107.50	13.40	2,290.0	1.455	1 380.00	133.50	349.00	2 800.00
558248	422.00	424.00	2.00	2	VO18233905 - Finalized	14/10/2018	0.062	3.990	117.00	382.00	14.55	837.0	0.873	1 760.00	186.00	313.00	2 920.00
558250	424.00	426.15	2.15	2	VO18233905 - Finalized	14/10/2018	0.061	4.670	50.70	372.00	13.60	1,700.0	0.593	1 560.00	176.00	256.00	3 080.00
558251	426.15	428.00	1.85	2	VO18233905 - Finalized	14/10/2018	0.017	1.180	95.30	155.50	7.61	1,900.0	0.222	359.00	30.60	80.60	841.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558252	428.00	428.75	0.75	2	VO18233905 - Finalized	14/10/2018	0.010	0.790	53.60	108.50	15.10	2,170.0	0.112	164.00	7.88	81.80	466.00
558253	428.75	430.00	1.25	2	VO18233905 - Finalized	14/10/2018	0.029	1.870	8.30	107.00	14.70	865.0	0.426	519.00	51.90	165.00	1 880.00
558254	430.00	432.00	2.00	2	VO18233905 - Finalized	14/10/2018	0.011	0.960	43.60	67.50	10.00	243.0	0.264	184.00	13.10	93.70	522.00
558255	432.00	434.00	2.00	2	VO18233905 - Finalized	14/10/2018	0.001	0.870	18.10	106.00	11.85	395.0	0.150	166.00	11.90	119.50	573.00
558257	434.00	435.70	1.70	2	VO18233905 - Finalized	14/10/2018	0.003	1.260	6.30	121.50	14.10	483.0	0.054	147.00	16.70	147.50	137.00
555560	435.70	437.00	1.30	2	VO18222692 - Finalized	17/09/2018	0.001	0.390	394.00	52.40	20.80	15,550.0	0.018	67.00	1.50	56.50	69.00
555561	437.00	438.20	1.20	2	VO18233786 - Finalized	01/10/2018	0.001	0.060	8.00	9.70	22.50	24,900.0	0.003	87.00	1.43	15.60	58.00
558274	438.30	440.00	1.70	2	VO18233908 - Finalized	05/10/2018	0.003	0.170	3.20	35.00	11.00	660.0	0.007	208.00	1.66	54.00	203.00
558275	440.00	441.00	1.00	2	VO18233908 - Finalized	05/10/2018	0.003	0.150	4.40	34.30	10.35	4,840.0	0.013	179.00	1.29	50.30	190.00
555562	441.00	442.00	1.00	2	VO18233786 - Finalized	01/10/2018	0.001	0.120	16.80	30.90	7.98	5,580.0	0.010	146.00	1.07	44.90	159.00
555563	442.00	443.00	1.00	2	VO18233786 - Finalized	01/10/2018	0.001	0.100	5.10	27.60	7.14	5,180.0	0.017	124.00	0.77	40.90	161.00
555564	443.00	444.00	1.00	2	VO18233786 - Finalized	01/10/2018	0.001	0.120	7.50	39.70	8.18	6,580.0	0.014	149.00	0.91	41.10	147.00
555565	444.00	445.00	1.00	2	VO18233786 - Finalized	01/10/2018	0.001	0.150	2.40	27.60	9.19	3,520.0	0.010	151.00	1.02	43.10	171.00
555567	445.00	446.00	1.00	2	VO18233786 - Finalized	01/10/2018	0.001	0.110	1.50	16.90	15.60	8,440.0	0.009	79.00	0.55	23.10	120.00
555568	446.00	447.00	1.00	2	VO18233786 - Finalized	01/10/2018	0.001	0.070	1.70	7.20	18.80	10,450.0	0.003	35.00	0.66	10.40	49.00
555569	447.00	448.00	1.00	2	VO18233786 - Finalized	01/10/2018	0.001	0.050	1.60	3.60	11.95	4,670.0	0.003	19.00	0.51	3.40	28.00
555570	448.00	448.50	0.50	2	VO18233786 - Finalized	01/10/2018	0.001	0.310	1.60	41.00	8.39	3,260.0	0.011	45.00	5.57	31.90	29.00
558258	448.50	450.00	1.50	2	VO18233905 - Finalized	14/10/2018	0.013	1.590	29.90	151.00	14.05	576.0	0.284	226.00	20.20	140.00	1 130.00
558259	450.00	452.00	2.00	2	VO18233905 - Finalized	14/10/2018	0.025	1.700	71.90	82.60	11.80	397.0	0.362	210.00	18.40	143.00	801.00
558260	452.00	454.55	2.55	2	VO18233905 - Finalized	14/10/2018	0.042	2.560	20.00	151.50	13.10	2,670.0	0.246	756.00	98.10	200.00	1 060.00
558261	454.55	456.00	1.45	2	VO18233908 - Finalized	05/10/2018	0.016	1.260	30.20	94.70	11.90	487.0	0.224	320.00	24.00	135.00	1 490.00
558262	456.00	456.55	0.55	2	VO18233908 - Finalized	05/10/2018	0.017	0.990	12.40	79.10	10.45	424.0	0.061	285.00	20.60	84.70	376.00
558263	456.55	458.50	1.95	2	VO18233908 - Finalized	05/10/2018	0.008	1.000	25.10	154.00	18.15	2,300.0	0.027	172.00	4.56	77.80	127.00
558264	458.50	460.30	1.80	2	VO18233908 - Finalized	05/10/2018	0.011	0.810	7.00	226.00	15.25	1,150.0	0.055	250.00	5.62	57.80	234.00
558265	460.30	462.00	1.70	2	VO18233908 - Finalized	05/10/2018	0.040	2.000	10.70	333.00	10.30	783.0	0.614	1 120.00	120.00	229.00	3 780.00
558266	462.00	464.00	2.00	2	VO18233908 - Finalized	05/10/2018	0.055	1.840	32.50	336.00	12.00	1,080.0	0.423	1 020.00	116.50	250.00	1 960.00
558267	464.00	466.00	2.00	2	VO18233908 - Finalized	05/10/2018	0.036	2.300	116.50	180.50	14.20	751.0	0.615	732.00	70.00	224.00	1 520.00
558268	466.00	468.00	2.00	2	VO18233908 - Finalized	05/10/2018	0.023	1.210	67.90	120.00	12.00	649.0	0.283	170.00	14.10	152.00	919.00
558270	468.00	469.40	1.40	2	VO18233908 - Finalized	05/10/2018	0.014	0.890	36.90	101.00	11.25	470.0	0.148	159.00	15.40	112.00	700.00
555571	469.40	470.00	0.60	2	VO18233786 - Finalized	01/10/2018	0.001	0.090	12.50	4.70	10.30	1,680.0	0.003	7.00	0.75	6.30	15.00
555572	470.00	471.00	1.00	2	VO18233786 - Finalized	01/10/2018	0.001	0.090	10.70	5.10	10.95	1,780.0	0.003	8.00	0.75	8.10	13.00
555573	471.00	472.00	1.00	2	VO18233786 - Finalized	01/10/2018	0.001	0.080	1.70	6.70	8.48	1,620.0	0.006	7.00	0.79	6.70	10.00
555574	472.00	473.00	1.00	2	VO18233786 - Finalized	01/10/2018	0.001	0.020	4.80	4.80	11.05	4,020.0	0.003	13.00	0.63	5.50	10.00
555575	473.00	474.00	1.00	2	VO18233786 - Finalized	01/10/2018	0.001	0.030	0.70	3.70	15.75	9,120.0	0.003	31.00	0.65	9.70	22.00
555576	474.00	474.60	0.60	2	VO18233786 - Finalized	01/10/2018	0.001	0.400	1.70	43.40	15.80	9,410.0	0.005	35.00	0.91	35.10	53.00
558271	474.60	476.00	1.40	2	VO18233908 - Finalized	05/10/2018	0.005	0.660	4.00	46.30	6.43	116.0	0.071	168.00	11.85	51.60	282.00
558272	476.00	478.00	2.00	2	VO18233908 - Finalized	05/10/2018	0.007	0.530	4.50	52.70	6.14	360.0	0.110	137.00	11.05	64.20	421.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558273	478.00	478.80	0.80	2	VO18233908 - Finalized	05/10/2018	0.001	0.430	5.20	38.20	5.59	431.0	0.035	139.00	13.55	49.50	126.00
555577	478.80	480.00	1.20	2	VO18233786 - Finalized	01/10/2018	0.001	0.080	0.60	5.70	9.13	1,540.0	0.005	11.00	0.82	6.00	13.00
555578	480.00	480.70	0.70	2	VO18233786 - Finalized	01/10/2018	0.001	0.030	5.60	1.90	8.17	1,400.0	0.003	8.00	0.46	4.60	12.00
555580	480.70	482.00	1.30	2	VO18233786 - Finalized	01/10/2018	0.001	0.030	1.00	1.50	3.69	873.0	0.006	4.00	0.44	4.40	6.00
555581	482.00	483.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.002	0.130	4.40	4.50	8.59	2,200.0	0.003	7.00	0.42	5.20	10.00
555582	483.00	484.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.060	3.10	2.10	6.82	1,580.0	0.003	4.00	0.59	7.10	5.00
555583	484.00	485.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.010	3.90	1.30	8.34	2,800.0	0.003	7.00	0.28	4.90	4.00
555584	485.00	486.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.010	7.10	5.20	16.90	7,960.0	0.003	34.00	0.69	9.00	8.00
555585	486.00	487.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.020	5.70	4.60	18.45	11,100.0	0.003	37.00	0.77	9.30	11.00
555587	487.00	488.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.060	3.60	4.40	21.40	13,300.0	0.003	40.00	0.66	7.60	9.00
555588	488.00	489.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.020	1.90	2.90	20.10	11,300.0	0.003	25.00	0.38	5.00	7.00
555589	489.00	490.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.030	6.50	5.90	20.70	12,300.0	0.003	38.00	0.42	7.40	9.00
555590	490.00	491.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.020	2.20	7.20	20.00	13,200.0	0.003	54.00	0.34	9.60	11.00
555591	491.00	492.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.030	7.10	8.20	21.80	14,300.0	0.003	58.00	0.40	10.30	13.00
555592	492.00	493.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.040	7.20	5.30	11.60	5,530.0	0.003	20.00	0.88	12.50	7.00
555593	493.00	494.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.070	14.90	2.60	4.46	897.0	0.003	5.00	0.61	7.50	4.00
555594	494.00	495.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.030	6.40	1.70	6.14	1,310.0	0.003	5.00	0.46	5.40	3.00
555595	495.00	496.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.020	3.00	1.50	10.85	1,840.0	0.003	6.00	0.42	4.60	5.00
555596	496.00	497.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.030	3.20	1.30	8.09	1,620.0	0.003	5.00	0.41	4.60	6.00
555597	497.00	498.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.020	3.10	1.60	7.31	2,060.0	0.003	10.00	0.44	5.00	5.00
555598	498.00	499.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.010	3.40	1.60	11.45	2,190.0	0.003	4.00	0.28	4.00	6.00
555600	499.00	500.00	1.00	2	VO18233804 - Finalized	01/10/2018	0.001	0.020	13.60	4.60	13.30	1,940.0	0.003	12.00	0.66	10.70	14.00
555601	500.00	501.00	1.00	2	VO18233805 - Finalized	01/10/2018	0.001	0.020	1.20	4.90	11.10	2,160.0	0.009	11.00	0.68	10.60	11.00
555602	501.00	502.20	1.20	2	VO18233805 - Finalized	01/10/2018	0.001	0.090	10.20	32.20	11.25	1,600.0	0.015	21.00	2.95	13.30	11.00
558277	502.20	504.00	1.80	2	VO18233908 - Finalized	05/10/2018	0.007	0.460	52.30	126.50	8.73	168.0	0.400	134.00	12.70	71.40	685.00
558278	504.00	506.00	2.00	2	VO18233908 - Finalized	05/10/2018	0.022	0.830	105.00	161.50	13.65	224.0	0.379	232.00	22.10	153.50	980.00
558279	506.00	508.00	2.00	2	VO18233908 - Finalized	05/10/2018	0.030	1.050	169.50	93.30	16.40	132.0	0.523	404.00	44.90	184.00	1 360.00
558280	508.00	510.00	2.00	2	VO18233908 - Finalized	05/10/2018	0.040	1.130	150.00	95.40	14.95	383.0	0.533	477.00	67.80	196.50	1 570.00
558281	510.00	512.00	2.00	2	VO18233911 - Finalized	05/10/2018	0.016	0.790	89.30	114.00	12.25	274.0	0.239	231.00	22.50	153.00	788.00
558282	512.00	513.60	1.60	2	VO18233911 - Finalized	05/10/2018	0.004	0.640	10.00	186.00	11.15	300.0	0.079	215.00	17.65	130.50	429.00
555603	513.60	514.50	0.90	2	VO18233805 - Finalized	01/10/2018	0.005	0.200	2.60	61.80	12.25	8,280.0	0.018	112.00	1.04	37.40	96.00



## Detailed Log Report

### Hole Number OSK-KAN-18-024

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	45.00 <b>Collar Az:</b> 305.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 368 345.00	<b>Length:</b>	148.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	September 3, 2018	<b>East:</b>	486 476.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	September 5, 2018	<b>Elev:</b>	130.38	<b>Casing Length:</b>	3.10 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	Y <b>Making Water:</b> N
<b>Logger 1:</b>	Simon Hebert			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	50m			<b>Claims Title:</b>	2099218 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F11 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	3.00	OVB, Overburden					
<b>Comments:</b>							



From	To	Lithology	Sample	From	To	Length	Comments	
3.00	32.00	<b>S9, Iron formation</b>	555604	3.00	5.00	2.00	S9C Ank; Ank-2 Chl-1; 9% Po AL PER 1% Po AL VN; 1% I1N QZ AK 30°	
			555605	5.00	6.00	1.00	S9C Ank; Ank-2 Chl-1; 9% Po AL PER 1% Po AL VN; 1% I1N QZ AK 30°	
			<b>Comments:</b>	555607	6.00	7.00	1.00	S9C Ank; Ank-2 Chl-1; 9% Po AL PER 1% Po AL VN; 1% I1N QZ AK 30°
			555608	7.00	8.00	1.00	S9C Ank; Ank-2 Chl-1; 9% Po AL PER 1% Po AL VN; 1% I1N QZ AK 30°	
			555609	8.00	9.00	1.00	S9C Ank; Ank-1; 0.1% Po DI PER; 1% I1N QZ 30°	
			555610	9.00	10.00	1.00	S9C Ank; Ank-1; 0.1% Po DI PER; 1% I1N QZ 30°	
			555611	10.00	11.00	1.00	S9C Ank; Ank-1; 0.1% Po DI PER; 1% I1N QZ 30°	
			555612	11.00	12.00	1.00	S9C Ank; Ank-1; 0.1% Po DI PER; 1% I1N QZ 30°	
			555613	12.00	13.00	1.00	S9C Ank; Ank-1; 0.1% Po DI PER; 1% I1N QZ 30°	
			555614	13.00	14.00	1.00	S9C Ank; Ank-1; 0.1% Po DI PER; 1% I1N QZ 30°	
			555615	14.00	15.00	1.00	S9C Ank; Ank-1; 0.1% Po DI PER; 1% I1N QZ 30°	
			555616	15.00	16.00	1.00	S9C Ank; Ank-1; 0.1% Po DI PER; 1% I1N QZ 30°	
			555617	16.00	17.00	1.00	S9C Ank; Ank-1; 0.1% Po DI PER; 1% I1N QZ 30°	
			555618	17.00	18.00	1.00	S9C Ank; Ank-4 Chl-4; 3% Po IG VN 2% Po AL PER 1% As DI PER 0.1% Vg DI VN; 1% I1N QZ CL 60°	
			555620	18.00	19.00	1.00	S9C Ank; Ank-4 Chl-4; 3% Po IG VN 2% Po AL PER 1% As DI PER 0.1% Vg DI VN; 1% I1N QZ CL 60°	
			555621	19.00	20.00	1.00	S9C Ank; Ank-4 Chl-4; 3% Po IG VN 2% Po AL PER 1% As DI PER 0.1% Vg DI VN; 1% I1N QZ CL 60°	
			555622	20.00	21.00	1.00	S9C Ank; Ank-1; 0.5% Po DI VN; 1% I1N QZ 20°	
			555623	21.00	22.00	1.00	S9C Ank; Ank-1; 0.5% Po DI VN; 1% I1N QZ 20°	
555624	22.00	23.00	1.00	S9C Ank; Ank-1; 0.5% Po DI VN; 1% I1N QZ 20°				
555625	23.00	24.00	1.00	S9C Ank; Ank-1; 0.5% Po DI VN; 1% I1N QZ 20°				
555627	24.00	25.00	1.00	S9C Ank; Ank-1; 0.5% Po DI VN; 1% I1N QZ 20°				
555628	25.00	26.00	1.00	S9C Ank; Ank-1; 0.5% Po DI VN; 1% I1N QZ 20°				
555629	26.00	27.00	1.00	S9C Ank; Ank-1; 0.5% Po DI VN; 1% I1N QZ 20°				
555630	27.00	28.00	1.00	S9C Ank; Ank-1; 0.5% Po DI VN; 1% I1N QZ 20°				
555631	28.00	29.00	1.00	S9C Ank; Ank-1; 0.5% Po DI VN; 1% I1N QZ 20°				
555632	29.00	30.00	1.00	S9C Ank; Ank-1; 0.5% Po DI VN; 1% I1N QZ 20°				
555633	30.00	31.00	1.00	S9C Ank; Ank-1; 0.5% Po DI VN; 1% I1N QZ 20°				
555634	31.00	32.00	1.00	S9C Ank; Ank-1; 0.5% Po DI VN; 1% I1N QZ 20°				
32.00	36.40	<b>S6g, Grey Shale</b>	558283	32.00	34.00	2.00	S6g; Ank-1; 1% Po SS BD; 2% I1N QZ AK 45°	
			558284	34.00	36.40	2.40	S6g; Ank-1; 1% Po SS BD; 2% I1N QZ AK 45°	
<b>Comments:</b>								
36.40	44.60	<b>I3A, Gabbro</b>	558285	36.40	38.00	1.60	I3A Chl-Ank; Ank-5; 3% I1N QZ CC 45°	
			558286	38.00	40.00	2.00	I3A Chl-Ank; Ank-5; 3% I1N QZ CC 45°	
			<b>Comments:</b>	558287	40.00	42.00	2.00	I3A Chl-Ank; Ank-5; 3% I1N QZ CC 45°
			558288	42.00	44.60	2.60	I3A Chl-Ank; Ank-5; 3% I1N QZ CC 45°	

From	To	Lithology	Sample	From	To	Length	Comments
44.60	51.35	S6g, Grey Shale	558290	44.60	46.00	1.40	S6g; Ank-1; 1% Po SS BD; 2% I1N QZ AK 45°
			558291	46.00	48.00	2.00	S6g; Ank-1; 1% Po SS BD; 2% I1N QZ AK 45°
			558292	48.00	50.00	2.00	S6g; Ank-1; 1% Po SS BD; 2% I1N QZ AK 45°
			558293	50.00	51.35	1.35	S6g; Ank-1; 1% Po SS BD; 2% I1N QZ AK 45°
<b>Comments:</b>			558294	51.35	53.50	2.15	I3A Chl-Ank; Ank-5; 3% I1N QZ CC 45°
51.35	53.50	I3A, Gabbro					
<b>Comments:</b>							
53.50	56.20	S6, Mudrock	558295	53.50	55.00	1.50	S6; NO ALT; 8% Po SS BD
			558297	55.00	56.20	1.20	S6; NO ALT; 8% Po SS BD
<b>Comments:</b>							
56.20	59.60	I3A, Gabbro	558298	56.20	58.00	1.80	I3A Chl-Ank; Ank-5; 1% I1N QZ CC 25°
			558299	58.00	59.60	1.60	I3A Chl-Ank; Ank-5; 1% I1N QZ CC 25°
<b>Comments:</b>							
59.60	64.50	S6, Mudrock	558300	59.60	62.00	2.40	S6 GP
			558301	62.00	64.00	2.00	S6 GP; NO ALT; 3% Po SS BD; 1% I1N QZ AK 30°
			558302	64.00	64.50	0.50	S6 GP; NO ALT; 3% Po SS BD; 1% I1N QZ AK 30°
<b>Comments:</b>							
64.50	73.25	S9, Iron formation	555635	64.50	66.00	1.50	S9C Ank; Ank-2; 2% Po DI VN 0.5% Po DI PER; 6% I1N QZ AK 35°
			555636	66.00	67.00	1.00	S9C Ank; Ank-2; 2% Po DI VN 0.5% Po DI PER; 6% I1N QZ AK 35°
			555637	67.00	68.00	1.00	S9C Ank; Ank-2; 2% Po DI VN 0.5% Po DI PER; 6% I1N QZ AK 35°
			555638	68.00	69.00	1.00	S10D; Chl-3 Ank-3 Chl-1; 3% Po DI PER 1% Po AL VN; 2% I1N QZ AK 30°
			555640	69.00	70.00	1.00	S10D; Chl-3 Ank-3 Chl-1; 3% Po DI PER 1% Po AL VN; 2% I1N QZ AK 30°
			555641	70.00	71.00	1.00	S10D; Chl-3 Ank-3 Chl-1; 3% Po DI PER 1% Po AL VN; 2% I1N QZ AK 30°
			555642	71.00	72.00	1.00	S10D; Chl-3 Ank-3 Chl-1; 3% Po DI PER 1% Po AL VN; 2% I1N QZ AK 30°
555643	72.00	73.25	1.25	S10D; Chl-3 Ank-3 Chl-1; 3% Po DI PER 1% Po AL VN; 2% I1N QZ AK 30°			
<b>Comments:</b>							
73.25	82.70	S6, Mudrock	558303	73.25	75.00	1.75	; CC-3; 10% Po SS BDPo ; 0.1% I1N QZ AK
			558304	75.00	77.00	2.00	S6 GP; CC-3; 10% Po SS BDPo ; 80% I1N QZ AK
			558305	77.00	79.00	2.00	S6 GP; CC-3; 10% Po SS BDPo ; 0.1% I1N QZ AK
			558306	79.00	81.00	2.00	S6 GP; CC-3; 10% Po SS BDPo ; 0.1% I1N QZ AK
			558307	81.00	82.70	1.70	S6 GP; CC-3; 10% Po SS BDPo ; 0.1% I1N QZ AK
<b>Comments:</b>							
82.70	85.75	I3A, Gabbro	558308	82.70	84.00	1.30	I3A Chl-Ank; Ank-2; 0.1% Po DI PER; 1% I1N QZ AK
			558310	84.00	85.75	1.75	I3A Chl-Ank; Ank-2; 0.1% Po DI PER; 1% I1N QZ AK
<b>Comments:</b>							
85.75	87.15	S6, Mudrock	558311	85.75	87.15	1.40	S6; CC-1; 4% Po SS BD; 1% I1N QZ AK
<b>Comments:</b>							

From	To	Lithology	Sample	From	To	Length	Comments
87.15	148.00	S9, Iron formation	555644	87.15	88.00	0.85	S9C Ank; Ank-2; 0.5% Po DI PER; 0.5% I1N QZ AK 70°
			555645	88.00	89.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 0.5% I1N QZ AK 70°
			555647	89.00	90.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 0.5% I1N QZ AK 70°
			555648	90.00	91.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 0.5% I1N QZ AK 70°
			555649	91.00	92.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 0.5% I1N QZ AK 70°
			555650	92.00	93.00	1.00	S9C Ank; Ank-4 Chl-3; 2% Po AL VN 0.5% As DI PER; 7% I1N QZ AK 80°
			555651	93.00	94.00	1.00	S9C Ank; Ank-4 Chl-3; 2% Po AL VN 0.5% As DI PER; 7% I1N QZ AK 80°
			555652	94.00	95.00	1.00	S9C Ank; Ank-4 Chl-3; 2% Po AL VN 0.5% As DI PER; 7% I1N QZ AK 80°
			555653	95.00	96.00	1.00	S9C Ank; Ank-4 Chl-3; 2% Po AL VN 0.5% As DI PER; 7% I1N QZ AK 80°
			555654	96.00	97.00	1.00	S9C Ank; Sil-5 Ank-3; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555655	97.00	98.00	1.00	S9C Ank; Sil-5 Ank-3; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555656	98.00	99.00	1.00	S9C Ank; Sil-5 Ank-3; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555657	99.00	100.00	1.00	S9C Ank; Sil-5 Ank-3; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555658	100.00	101.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555660	101.00	102.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555661	102.00	103.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555662	103.00	104.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555663	104.00	105.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555664	105.00	106.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555665	106.00	107.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555667	107.00	108.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555668	108.00	109.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555669	109.00	110.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555670	110.00	111.00	1.00	S9C Ank; Ank-2; 0.5% Po DI PER; 4% I1N QZ AK 70°
			555671	111.00	112.00	1.00	S9C Ank; Ank-5 Chl-1; 2% Po DI VN; 9% I1N QZ AK 70°
			555672	112.00	113.00	1.00	S9C Ank; Ank-5 Chl-1; 2% Po DI VN; 9% I1N QZ AK 70°
			555673	113.00	114.00	1.00	S9C Ank; Ank-5 Chl-1; 2% Po DI VN; 9% I1N QZ AK 70°
			555674	114.00	115.00	1.00	; Ank-5 Chl-1; 9% I1N QZ AK 70°
			555675	115.00	116.00	1.00	; Ank-5 Chl-1; 9% I1N QZ AK 70°
			555676	116.00	117.00	1.00	S9C Ank; Ank-5 Chl-1; 2% Po DI VN; 9% I1N QZ AK 70°
			555677	117.00	118.00	1.00	S9C Ank; Ank-2 Chl-2; 0.1% Po DI VN; 4% I1N QZ AK 65°
			555678	118.00	119.00	1.00	S9C Ank; Ank-2 Chl-2; 0.1% Po DI VN; 4% I1N QZ AK 65°
			555680	119.00	120.00	1.00	S9C Ank; Ank-2 Chl-2; 0.1% Po DI VN; 4% I1N QZ AK 65°
			555681	120.00	121.00	1.00	S9C Ank; Ank-2 Chl-2; 0.1% Po DI VN; 4% I1N QZ AK 65°
			555682	121.00	122.00	1.00	S9C Ank; Ank-2 Chl-2; 0.1% Po DI VN; 4% I1N QZ AK 65°
			555683	122.00	123.00	1.00	S9C Ank; Ank-2 Chl-2; 0.1% Po DI VN; 4% I1N QZ AK 65°
			555684	123.00	124.00	1.00	S9C Ank; Ank-2 Chl-2; 0.1% Po DI VN; 4% I1N QZ AK 65°
			555685	124.00	125.00	1.00	S9C Ank; Ank-2 Chl-2; 0.1% Po DI VN; 4% I1N QZ AK 65°
			555687	125.00	126.00	1.00	S9C Ank; Ank-2 Chl-2; 0.1% Po DI VN; 4% I1N QZ AK 65°
			555688	126.00	127.00	1.00	S9C Ank; Ank-2 Chl-2; 0.1% Po DI VN; 4% I1N QZ AK 65°
			555689	127.00	128.00	1.00	S9C Ank; Ank-2 Chl-2; 0.1% Po DI VN; 4% I1N QZ AK 65°

From	To	Lithology	Sample	From	To	Length	Comments
			555690	128.00	129.00	1.00	S9C Ank; Ank-2 Chl-2; 0.1% Po DI VN; 4% I1N QZ AK 65°
			555691	129.00	130.00	1.00	S9C Ank; Ank-2 Chl-2; 0.1% Po DI VN; 4% I1N QZ AK 65°
			555692	130.00	131.00	1.00	S9C Ank; Ank-2 Chl-2; 0.1% Po DI VN; 4% I1N QZ AK 65°
			555693	131.00	132.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555694	132.00	133.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555695	133.00	134.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555696	134.00	135.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555697	135.00	136.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555698	136.00	137.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555700	137.00	138.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555701	138.00	139.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555702	139.00	140.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555703	140.00	141.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555704	141.00	142.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555705	142.00	143.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555707	143.00	144.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555708	144.00	145.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555709	145.00	146.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555710	146.00	147.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB
			555711	147.00	148.00	1.00	S9C Sid; Ank-1 Chl-1; 0.1% Po DI VN; 4% I1N QZ AB

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
13.00	304.90	-44.20	FM	Test Non-OK	
16.00	304.70	-44.30	FM	Test Non-OK	
19.00	303.80	-44.30	FM	Test OK-Accept	
22.00	303.20	-44.30	FM	Test OK-Accept	
25.00	304.30	-43.90	FM	Test OK-Accept	
28.00	303.90	-44.40	FM	Test OK-Accept	
31.00	304.60	-44.50	FM	Test OK-Accept	
34.00	302.30	-44.40	FM	Test Non-OK	
37.00	305.30	-44.20	FM	Test Non-OK	
40.00	305.40	-44.30	FM	Test Non-OK	
43.00	306.20	-43.60	FM	Test Non-OK	
46.00	301.90	-44.30	FM	Test Non-OK	
49.00	301.50	-44.30	FM	Test Non-OK	
52.00	304.90	-44.30	FM	Test OK-Accept	
55.00	301.70	-44.30	FM	Test Non-OK	
58.00	306.20	-44.30	FM	Test Non-OK	
61.00	300.90	-44.30	FM	Test Non-OK	
64.00	298.90	-44.30	FM	Test Non-OK	
67.00	303.80	-44.20	FM	Test OK-Accept	
70.00	304.50	-44.30	FM	Test OK-Accept	
73.00	302.00	-44.30	FM	Test Non-OK	
76.00	301.90	-44.30	FM	Test Non-OK	
79.00	304.80	-44.30	FM	Test OK-Accept	
82.00	303.80	-44.30	FM	Test OK-Accept	
85.00	303.90	-44.40	FM	Test OK-Accept	
88.00	303.10	-44.50	FM	Test OK-Accept	
91.00	303.10	-44.60	FM	Test OK-Accept	
94.00	302.00	-44.60	FM	Test Non-OK	
97.00	298.80	-45.90	FM	Test Non-OK	
100.00	303.50	-44.60	FM	Test OK-Accept	
103.00	303.50	-44.70	FM	Test OK-Accept	
106.00	304.20	-44.70	FM	Test OK-Accept	
109.00	302.20	-44.80	FM	Test Non-OK	
112.00	303.00	-44.80	FM	Test OK-Accept	
115.00	302.70	-44.80	FM	Test OK-Accept	
118.00	302.80	-44.90	FM	Test OK-Accept	
121.00	304.20	-44.90	FM	Test Non-OK	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
124.00	302.30	-44.90	FM	Test OK-Accept	
127.00	303.10	-45.00	FM	Test OK-Accept	
130.00	303.40	-45.10	FM	Test Non-OK	
133.00	302.60	-45.30	FM	Test OK-Accept	
136.00	302.50	-45.50	FM	Test OK-Accept	
139.00	302.40	-45.60	FM	Test OK-Accept	
142.00	302.60	-45.60	FM	Test OK-Accept	
145.00	301.80	-45.70	FM	Test OK-Accept	
148.00	302.60	-45.70	FM	Test OK-Accept	

Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
3.00	8.00	S9	HK	BD	EQ		S9C Ank	35.00	Sulphide	VM	GM	3	FG			DIF	The equigranular texture is related to chert beds. Granoblastic?
8.00	17.00	S9	HJ	BD			S9C Ank	3.00	Silica	VM	GM	3	FG			DIF	
17.00	20.00	S9	HJ	BD			S9C Ank	15.00	Sulphide	VM	GM	3	FG			DIF	
20.00	32.00	S9	HJ	BD	EQ		S9C Ank	8.00	Silica	GM	VM	3	FG		45.00	SHP	The equigranular texture is related to chert beds. Granoblastic?
32.00	36.40	S6g	HJ	LA			S6g			GM		1	Aph				
36.40	44.60	I3A	HJ	FO			I3A Chl-Ank			VL		1	MG		40.00	SHP	
44.60	51.35	S6g	HJ	LA			S6g			BK		1	Aph				
51.35	53.50	I3A	HJ	FO			I3A Chl-Ank			VL		1	MG				
53.50	56.20	S6	HJ	LA			S6			BK		1	Aph				
56.20	59.60	I3A	PI	HJ	FO		I3A Chl-Ank			VM		1	MG				
59.60	64.50	S6	LA	HJ			S6 GP			BK		1	Aph				
64.50	68.00	S9	BD	HJ	FO		S9C Ank	10.00	Silica	GM	VM	3	FG				
68.00	73.25	S9	MA	HK			S10D	80.00	Sulphide	VL	GL	3	FG		80.00	SHP	
73.50	82.70	S6	LA	HJ	BD		S6 GP			BK		1	Aph				
82.70	85.75	I3A	FO	HJ			I3A Chl-Ank			GM	VM	2	FG		40.00	SHP	
85.75	87.15	S6	LA	HJ			S6			BK		1	Aph				
87.15	114.70	S9	HK	BD	BX		S9C Ank	12.00	Silica	GM	VM	3	FG			DIF	
114.70	115.50	S9	HJ	LA			S6			BK		1	Aph				
115.50	131.00	S9	BX	HK	BD	MA	S9C Ank	15.00	Silica	GM	V	3	FG				
131.00	148.00	S9	HK	BD	BX		S9C Sid	20.00	Silica	GM	VM	3	FG				

Mineralization Data																	
From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
3.00	8.00		Po	9.00	AL	PER		Po	1.00	AL	VN						
8.00	17.00		Po	0.10	DI	PER											
17.00	20.00		Po	3.00	IG	VN		Po	2.00	AL	PER		As	1.00	DI	PER	
20.00	32.00		Po	0.50	DI	VN											
32.00	36.40		Po	1.00	SS	BD											
44.60	51.35		Po	1.00	SS	BD											
53.50	56.20		Po	8.00	SS	BD											
59.70	64.50		Po	3.00	SS	BD											
64.50	68.00		Po	2.00	DI	VN		Po	0.50	DI	PER						
68.00	73.25		Po	3.00	DI	PER		Po	1.00	AL	VN						
73.25	82.70		Po	10.00	SS	BD		Po									
82.70	85.75		Po	0.10	DI	PER											
85.75	87.15		Po	4.00	SS	BD											
87.15	92.00		Po	0.50	DI	PER											
92.00	96.00		Po	2.00	AL	VN		As	0.50	DI	PER						
96.00	111.00		Po	0.50	DI	PER											
111.00	114.70		Po	2.00	DI	VN											
114.70	115.50		Po	7.00	AN	BD											
115.50	117.00		Po	2.00	DI	VN											
117.00	148.00		Po	0.10	DI	VN											



Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
3.00	8.00	Ank	2	VN	Chl	1	VN				
8.00	17.00	Ank	1	VN							
17.00	20.00	Ank	4	VN	Chl	4	VN				
20.00	32.00	Ank	1	VN							
32.00	36.40	Ank	1	VN							
36.40	44.60	Ank	5	PEN							
44.60	51.35	Ank	1	VN							
51.35	53.50	Ank	5	PEN							
53.50	56.20	NO ALT									
56.20	59.70	Ank	5	PEN							
59.70	64.50	NO ALT									
64.50	68.00	Ank	2	VN							
68.00	73.25	Chl	3	VN	Ank	3	VN	Chl	1	PEN	
73.25	82.70	CC	3	VN							
82.70	85.75	Ank	2	PEN							
85.75	87.15	CC	1	VN							
87.15	92.00	Ank	2	VN							
92.00	96.00	Ank	4	VN	Chl	3	VN				
96.00	100.00	Sil	5	IG	Ank	3	VN				
100.00	111.00	Ank	2	VN							
111.00	117.00	Ank	5	VN	Chl	1	VN				
117.00	131.00	Ank	2	VN	Chl	2	VN				
131.00	148.00	Ank	1	VN	Chl	1	VN				

## Vein Data

From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
3.00	8.00	1.00		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	2.00					30.00					
8.00	17.00	1.00		I1N	UNK	Veinlet <5cm	QZ	100.00							30.00					
17.00	20.00	1.00		I1N	UNK	Veinlet <5cm	QZ	95.00	CL	5.00					60.00					
20.00	32.00	1.00		I1N	UNK	Veinlet <5cm	QZ	100.00							20.00	Po	0.50			
32.00	36.40	2.00		I1N	UNK	Veinlet <5cm	QZ	96.00	AK	4.00					45.00					
36.40	44.60	3.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00					45.00					
44.60	51.35	2.00		I1N	UNK	Veinlet <5cm	QZ	96.00	AK						45.00					
51.35	53.50	3.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00					45.00					
56.20	59.70	1.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00					25.00					
59.70	64.50	1.00		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	5.00					30.00					
64.50	68.00	6.00		I1N	UNK	Vein >5cm	QZ	92.00	AK	6.00	CL	2.00			35.00					
68.00	73.25	2.00		I1N	UNK	Vein >5cm	QZ	95.00	AK	5.00					30.00	Po	2.00			
73.25	76.20	0.10		I1N	UNK	Veinlet <5cm	QZ	90.00	AK	10.00										
76.20	77.00	80.00		I1N	UNK	Vein >5cm	QZ	90.00	AK	10.00						Po	3.00			
77.00	82.70	0.10		I1N	UNK	Veinlet <5cm	QZ	90.00	AK	10.00										
82.70	87.15	1.00		I1N	UNK	Veinlet <5cm	QZ	50.00	AK	50.00										
87.15	92.00	0.50		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	2.00					70.00	Po	0.10			
92.00	96.00	7.00		I1N	UNK	Vein >5cm	QZ	90.00	AK	7.00	CL	3.00			80.00	Po	1.00	As	0.50	
96.00	111.00	4.00		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	3.00	CL	2.00			70.00	Po	0.50			
111.00	117.00	9.00		I1N	UNK	Vein >5cm	QZ	70.00	AK	25.00	CL	5.00			70.00	Po	3.00			
117.00	131.00	4.00		I1N	UNK	Vein >5cm	QZ	80.00	AK	15.00	CL	5.00			65.00	Po	0.50			
131.00	148.00	4.00		I1N	UNK	Vein >5cm	QZ	97.00	AB	2.00	CL	1.00								

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments

Oriented Structure Data													
Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
27.70	S0		52.00										
32.00	CNT		45.00										
36.00	S0		45.00										
36.40	CNT		51.00										
37.70	S1		47.00										
40.50	S1		37.00										
44.60	CNT		44.00										
46.60	S0		35.00										
50.50	S0		34.00										
51.35	CNT		36.00										
52.20	S1		35.00										
53.50	CNT		34.00										
54.50	S0		30.00	232.00	299.90	-44.30	-43.05	298.68	0.00	28.68			
55.25	S0		22.00	325.00	299.23	-44.30	-73.62	175.57	0.00	265.57			
56.20	CNT		15.00	130.00	300.53	-44.27	-51.30	139.07	0.00	229.07			
59.30	CNT		23.00										
61.90	S0		20.00										
63.50	CNT		25.00										
64.50	CNT		25.00										
73.25	CNT		25.00										
81.40	S0		45.00	150.00	300.93	-45.03	-21.08	110.29	0.00	200.29			
82.70	CNT		45.00										
85.70	CNT		40.00	255.00	303.50	-44.62	-53.66	326.78	0.00	56.78			
86.15	S0		45.00	235.00	303.50	-44.63	-38.24	324.15	0.00	54.15			
87.15	CNT		40.00	245.00	303.50	-44.67	-46.99	321.80	0.00	51.80			
94.75	VN		37.00										
110.00	VN		45.00										
114.70	CNT		20.00	222.00	302.53	-45.43	-42.80	280.26	0.00	10.26			
115.55	CNT		30.00	255.00	302.48	-45.52	-59.08	315.31	0.00	45.31			
120.15	S0		25.00	200.00	302.57	-45.60	-26.13	257.31	0.00	347.31			
121.85	S0		25.00	230.00	302.20	-45.65	-44.81	292.30	0.00	22.30			
127.20	VN		25.00										
127.40	S0		35.00										
132.00	S0		23.00	232.00	302.60	-45.70	-47.51	292.23	0.00	22.23			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
136.20	S0		22.00										
137.40	S0		20.00										
144.10	S0		33.00	198.00	302.60	-45.70	-18.76	266.29	0.00	356.29			
144.40	VN		41.00	192.00	302.60	-45.70	-9.90	278.52	0.00	8.52			

**Sample Data - ASSAY**

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
555604	3.00	5.00	2.00	2	VO18233805 - Finalized	01/10/2018	0.004	0.170	0.40	31.90	17.65	4,670.0	0.019	30.00	0.78	8.80	10.00
555605	5.00	6.00	1.00	2	VO18233805 - Finalized	01/10/2018	0.001	0.010	0.40	1.30	15.50	4,000.0	0.003	14.00	0.19	1.80	6.00
555607	6.00	7.00	1.00	2	VO18233805 - Finalized	01/10/2018	0.006	0.470	23.20	170.00	24.00	3,030.0	0.005	20.00	1.70	42.00	18.00
555608	7.00	8.00	1.00	2	VO18233805 - Finalized	01/10/2018	0.001	0.150	0.50	13.20	18.80	6,070.0	0.003	24.00	1.42	7.50	22.00
555609	8.00	9.00	1.00	2	VO18233805 - Finalized	01/10/2018	0.003	0.030	2.90	5.60	24.90	8,780.0	0.006	30.00	0.51	7.50	35.00
555610	9.00	10.00	1.00	2	VO18233805 - Finalized	01/10/2018	0.003	0.010	1.40	3.00	21.40	11,350.0	0.003	23.00	0.34	5.80	15.00
555611	10.00	11.00	1.00	2	VO18233805 - Finalized	01/10/2018	0.001	0.010	1.50	2.80	19.00	13,450.0	0.003	21.00	0.21	5.10	13.00
555612	11.00	12.00	1.00	2	VO18233805 - Finalized	01/10/2018	0.001	0.010	0.60	8.10	17.25	12,800.0	0.003	27.00	1.10	5.70	22.00
555613	12.00	13.00	1.00	2	VO18233805 - Finalized	01/10/2018	0.001	0.010	0.40	1.80	13.65	9,960.0	0.003	15.00	0.24	3.30	7.00
555614	13.00	14.00	1.00	2	VO18233805 - Finalized	01/10/2018	0.001	0.020	14.00	5.80	20.90	13,500.0	0.003	26.00	0.39	9.10	15.00
555615	14.00	15.00	1.00	2	VO18233805 - Finalized	01/10/2018	0.001	0.020	3.40	4.50	17.95	13,600.0	0.003	29.00	0.34	8.30	11.00
555616	15.00	16.00	1.00	2	VO18233805 - Finalized	01/10/2018	0.001	0.010	1.40	4.50	18.30	11,650.0	0.003	26.00	0.48	8.40	10.00
555617	16.00	17.00	1.00	2	VO18233805 - Finalized	01/10/2018	0.001	0.010	12.90	4.60	21.70	14,400.0	0.003	24.00	0.51	7.60	9.00
555618	17.00	18.00	1.00	2	VO18233805 - Finalized	01/10/2018	1.620	0.060	84.20	29.00	22.60	10,050.0	0.019	28.00	0.24	5.90	33.00
555620	18.00	19.00	1.00	2	VO18233805 - Finalized	01/10/2018	5.340	0.170	12.30	15.90	23.50	6,910.0	0.019	11.00	0.06	1.50	39.00
555621	19.00	20.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.599	0.030	1 115.00	8.80	25.50	6,810.0	0.003	13.00	0.11	1.20	33.00
555622	20.00	21.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.005	0.005	11.40	2.10	28.40	6,210.0	0.003	12.00	0.07	1.00	9.00
555623	21.00	22.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.001	0.005	2.10	2.00	27.60	6,110.0	0.003	13.00	0.10	1.10	7.00
555624	22.00	23.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.004	0.010	0.70	1.50	26.80	12,150.0	0.003	7.00	0.07	1.20	14.00
555625	23.00	24.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.306	0.020	1.40	2.10	28.30	10,950.0	0.003	8.00	0.10	1.20	21.00
555627	24.00	25.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.001	0.020	2.00	1.30	26.80	11,600.0	0.003	8.00	0.12	1.20	5.00
555628	25.00	26.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.003	0.010	0.70	0.90	26.00	10,300.0	0.003	10.00	0.06	1.10	8.00
555629	26.00	27.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.001	0.010	1.00	1.00	29.10	10,150.0	0.003	8.00	0.07	1.00	7.00
555630	27.00	28.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.001	0.010	0.30	1.00	27.80	9,840.0	0.003	5.00	0.05	0.90	13.00
555631	28.00	29.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.001	0.020	0.90	0.70	25.40	7,800.0	0.003	6.00	0.09	1.00	14.00
555632	29.00	30.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.001	0.010	1.60	1.20	30.20	10,200.0	0.003	8.00	0.03	1.40	18.00
555633	30.00	31.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.001	0.020	1.80	3.90	24.30	14,600.0	0.003	30.00	0.31	8.60	9.00
555634	31.00	32.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.003	0.120	34.40	12.00	22.10	13,950.0	0.003	48.00	0.54	15.80	37.00
558283	32.00	34.00	2.00	2	VO18233911 - Finalized	05/10/2018	0.004	0.190	2.10	31.10	13.50	1,620.0	0.008	200.00	2.55	53.30	129.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558284	34.00	36.40	2.40	2	VO18233911 - Finalized	05/10/2018	0.008	0.190	10.20	61.10	10.30	942.0	0.012	235.00	3.36	64.90	152.00
558285	36.40	38.00	1.60	2	VO18233911 - Finalized	05/10/2018	0.001	0.130	41.20	123.00	10.05	1,320.0	0.009	411.00	0.50	51.30	150.00
558286	38.00	40.00	2.00	2	VO18233911 - Finalized	05/10/2018	0.002	0.160	72.50	143.00	10.65	1,090.0	0.007	314.00	0.20	114.50	140.00
558287	40.00	42.00	2.00	2	VO18233911 - Finalized	05/10/2018	0.002	0.220	68.50	139.00	8.11	1,220.0	0.003	296.00	0.24	106.00	114.00
558288	42.00	44.60	2.60	2	VO18233911 - Finalized	05/10/2018	0.001	0.220	66.00	125.50	8.76	1,080.0	0.008	307.00	0.55	102.50	143.00
558290	44.60	46.00	1.40	2	VO18233911 - Finalized	05/10/2018	0.004	0.250	1.30	74.20	8.83	266.0	0.024	274.00	5.57	57.80	233.00
558291	46.00	48.00	2.00	2	VO18233911 - Finalized	05/10/2018	0.005	0.260	1.10	61.10	7.88	241.0	0.024	274.00	5.66	53.70	211.00
558292	48.00	50.00	2.00	2	VO18233911 - Finalized	05/10/2018	0.004	0.210	1.20	51.20	6.76	212.0	0.026	259.00	4.31	50.10	220.00
558293	50.00	51.35	1.35	2	VO18233911 - Finalized	05/10/2018	0.005	0.230	0.90	57.40	6.88	210.0	0.021	281.00	6.67	51.50	222.00
558294	51.35	53.50	2.15	2	VO18233911 - Finalized	05/10/2018	0.001	0.170	60.60	106.00	8.37	1,120.0	0.013	290.00	0.71	95.00	144.00
558295	53.50	55.00	1.50	2	VO18233911 - Finalized	05/10/2018	0.002	0.280	0.90	78.50	9.71	342.0	0.028	238.00	2.76	49.90	117.00
558297	55.00	56.20	1.20	2	VO18233911 - Finalized	05/10/2018	0.036	1.350	1.40	197.00	20.80	586.0	0.149	182.00	17.50	127.50	608.00
558298	56.20	58.00	1.80	2	VO18233911 - Finalized	05/10/2018	0.001	0.410	72.60	122.50	8.67	1,440.0	0.006	303.00	0.33	118.50	133.00
558299	58.00	59.60	1.60	2	VO18233911 - Finalized	05/10/2018	0.001	0.120	64.80	87.50	9.81	1,030.0	0.010	329.00	0.87	101.00	185.00
558300	59.60	62.00	2.40	2	VO18233911 - Finalized	05/10/2018	0.009	0.200	0.90	78.40	7.17	223.0	0.037	263.00	6.36	51.50	235.00
558301	62.00	64.00	2.00	2	VO18233913 - Finalized	13/10/2018	0.023	0.450	0.80	87.60	12.05	354.0	0.028	274.00	8.75	67.40	147.00
558302	64.00	64.50	0.50	2	VO18233913 - Finalized	13/10/2018	0.032	0.930	0.90	109.00	23.10	2,730.0	0.110	257.00	13.10	81.20	151.00
555635	64.50	66.00	1.50	2	VO18233807 - Finalized	03/10/2018	0.342	0.200	0.80	26.30	17.40	9,790.0	0.018	60.00	1.57	19.00	60.00
555636	66.00	67.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.007	0.050	0.60	3.50	19.10	11,050.0	0.003	34.00	0.23	6.00	23.00
555637	67.00	68.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.004	0.070	11.70	7.30	22.80	13,100.0	0.003	48.00	0.59	9.90	30.00
555638	68.00	69.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.005	0.020	3.30	3.20	21.60	12,150.0	0.003	35.00	0.36	10.60	24.00
555640	69.00	70.00	1.00	2	VO18233807 - Finalized	03/10/2018	0.042	0.030	0.30	9.90	28.30	10,400.0	0.003	10.00	0.11	4.60	26.00
555641	70.00	71.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.177	0.070	1.60	13.40	26.70	8,660.0	0.003	9.00	0.11	9.30	39.00
555642	71.00	72.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.075	0.170	368.00	39.50	23.30	5,560.0	0.006	18.00	0.10	24.00	92.00
555643	72.00	73.25	1.25	2	VO18233809 - Finalized	30/09/2018	0.179	0.420	214.00	110.50	19.80	5,800.0	0.010	19.00	0.14	79.50	90.00
558303	73.25	75.00	1.75	2	VO18233913 - Finalized	13/10/2018	0.042	0.740	153.50	138.00	19.15	1,180.0	0.126	148.00	11.85	108.50	368.00
558304	75.00	77.00	2.00	2	VO18233913 - Finalized	13/10/2018	0.019	0.450	0.80	81.70	12.30	356.0	0.123	153.00	9.00	74.70	522.00
558305	77.00	79.00	2.00	2	VO18233913 - Finalized	13/10/2018	0.052	0.680	1.10	101.50	12.20	230.0	0.293	215.00	14.90	77.20	1 100.00
558306	79.00	81.00	2.00	2	VO18233913 - Finalized	13/10/2018	0.068	1.300	2.20	145.50	16.30	206.0	0.274	214.00	17.70	101.50	1 240.00
558307	81.00	82.70	1.70	2	VO18233913 - Finalized	13/10/2018	0.062	0.850	8.00	105.50	17.75	445.0	0.116	230.00	16.15	105.50	527.00
558308	82.70	84.00	1.30	2	VO18233913 - Finalized	13/10/2018	0.002	0.140	5.00	25.00	13.30	2,210.0	0.005	160.00	1.27	38.50	114.00
558310	84.00	85.75	1.75	2	VO18233913 - Finalized	13/10/2018	0.007	0.150	20.40	20.00	13.85	2,210.0	0.010	183.00	1.14	40.00	100.00
558311	85.75	87.15	1.40	2	VO18233913 - Finalized	13/10/2018	0.025	0.380	28.50	48.20	13.55	283.0	0.012	292.00	9.58	81.40	74.00
555644	87.15	88.00	0.85	2	VO18233809 - Finalized	30/09/2018	0.001	0.070	9.60	16.50	18.90	13,500.0	0.007	87.00	0.45	26.00	63.00
555645	88.00	89.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.001	0.030	5.70	5.50	22.30	15,350.0	0.003	73.00	0.32	12.20	36.00
555647	89.00	90.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.001	0.030	4.90	4.00	18.25	11,300.0	0.003	33.00	0.24	6.70	18.00
555648	90.00	91.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.001	0.010	3.10	2.60	13.80	7,440.0	0.003	25.00	0.23	5.10	8.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
555649	91.00	92.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.001	0.010	11.50	4.00	20.90	13,250.0	0.003	53.00	0.34	13.00	19.00
555650	92.00	93.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.830	0.020	1.20	15.80	26.90	14,800.0	0.018	80.00	0.35	19.70	69.00
555651	93.00	94.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.386	0.020	629.00	9.20	19.30	7,970.0	0.010	21.00	0.15	5.50	43.00
555652	94.00	95.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.067	0.040	4.90	2.70	26.20	4,570.0	0.003	13.00	0.09	1.10	21.00
555653	95.00	96.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.213	0.010	3.30	6.10	20.40	3,640.0	0.009	10.00	0.12	1.40	20.00
555654	96.00	97.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.161	0.005	2.40	5.80	25.30	6,140.0	0.003	13.00	0.11	1.00	33.00
555655	97.00	98.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.035	0.010	0.20	2.00	23.60	6,880.0	0.003	8.00	0.10	0.80	31.00
555656	98.00	99.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.001	0.005	0.10	2.40	21.80	6,050.0	0.003	5.00	0.10	0.90	17.00
555657	99.00	100.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.001	0.010	0.30	4.50	25.50	6,010.0	0.003	8.00	0.10	1.10	15.00
555658	100.00	101.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.002	0.020	0.60	5.10	25.40	4,500.0	0.003	8.00	0.11	1.20	14.00
555660	101.00	102.00	1.00	2	VO18233809 - Finalized	30/09/2018	0.001	0.020	0.20	3.50	28.40	5,520.0	0.003	8.00	0.08	1.40	13.00
555661	102.00	103.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.001	0.010	0.30	2.00	26.00	6,880.0	0.003	7.00	0.05	2.40	9.00
555662	103.00	104.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.001	0.090	173.00	11.40	26.20	7,710.0	0.015	12.00	0.16	6.10	16.00
555663	104.00	105.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.001	0.010	0.30	2.20	23.00	5,540.0	0.003	7.00	0.08	1.90	17.00
555664	105.00	106.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.001	0.010	0.50	2.50	24.30	5,030.0	0.005	8.00	0.09	2.30	17.00
555665	106.00	107.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.001	0.020	0.60	4.30	21.60	4,680.0	0.003	12.00	0.08	1.90	15.00
555667	107.00	108.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.001	0.050	1.50	11.10	23.70	5,700.0	0.003	14.00	0.13	4.20	21.00
555668	108.00	109.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.001	0.010	1.30	1.50	20.30	6,700.0	0.003	10.00	0.16	5.20	8.00
555669	109.00	110.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.001	0.020	1.10	3.60	22.00	6,750.0	0.003	25.00	0.36	4.70	12.00
555670	110.00	111.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.001	0.010	4.10	2.80	16.85	4,750.0	0.003	21.00	0.35	5.10	13.00
555671	111.00	112.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.001	0.020	3.00	3.00	18.25	5,000.0	0.003	26.00	0.54	4.70	22.00
555672	112.00	113.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.004	0.070	3.10	18.20	14.30	4,010.0	0.003	28.00	1.35	6.70	44.00
555673	113.00	114.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.003	0.040	0.40	11.60	20.50	5,350.0	0.006	43.00	0.95	5.80	43.00
555674	114.00	115.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.003	0.050	11.20	13.10	13.05	3,610.0	0.013	21.00	2.56	7.80	29.00
555675	115.00	116.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.055	0.490	2.90	128.00	20.30	703.0	0.057	142.00	22.10	39.60	192.00
555676	116.00	117.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.059	0.030	46.40	6.80	16.10	5,050.0	0.009	25.00	0.52	3.70	41.00
555677	117.00	118.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.083	0.010	20.60	4.80	15.90	4,950.0	0.006	16.00	0.46	4.40	21.00
555678	118.00	119.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.001	0.010	0.10	3.20	14.15	4,390.0	0.007	17.00	0.42	5.90	16.00
555680	119.00	120.00	1.00	2	VO18233811 - Finalized	30/09/2018	0.001	0.010	0.20	5.10	23.20	6,110.0	0.008	23.00	0.47	5.70	13.00
555681	120.00	121.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.001	0.020	2.50	5.50	22.20	5,820.0	0.003	18.00	0.36	5.50	10.00
555682	121.00	122.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.001	0.010	3.30	3.10	17.55	6,010.0	0.003	22.00	1.07	4.20	9.00
555683	122.00	123.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.001	0.010	2.50	4.30	26.90	12,950.0	0.005	41.00	0.55	7.30	16.00
555684	123.00	124.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.003	0.010	1.60	4.30	23.30	11,300.0	0.003	17.00	0.37	4.40	12.00
555685	124.00	125.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.001	0.010	1.50	2.60	24.80	9,360.0	0.003	25.00	0.33	5.80	13.00
555687	125.00	126.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.012	0.020	75.10	2.70	16.70	4,810.0	0.003	6.00	0.08	2.10	10.00
555688	126.00	127.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.846	0.030	1.20	5.40	25.00	5,870.0	0.032	11.00	0.08	1.90	20.00
555689	127.00	128.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.616	0.010	11.60	3.90	24.30	5,950.0	0.003	11.00	0.10	1.80	18.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
555690	128.00	129.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.545	0.020	6.90	5.00	24.70	7,050.0	0.005	14.00	0.15	3.40	11.00
555691	129.00	130.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.001	0.005	0.60	1.70	23.80	6,620.0	0.003	10.00	0.08	1.60	15.00
555692	130.00	131.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.001	0.005	2.40	2.00	21.20	8,210.0	0.006	21.00	0.22	4.80	15.00
555693	131.00	132.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.001	0.010	3.90	3.60	28.80	13,700.0	0.012	40.00	0.27	7.70	15.00
555694	132.00	133.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.001	0.020	25.90	4.80	27.80	13,800.0	0.024	42.00	0.35	8.50	9.00
555695	133.00	134.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.001	0.020	5.80	4.60	21.50	9,510.0	0.020	46.00	0.35	10.00	7.00
555696	134.00	135.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.001	0.010	3.10	1.60	23.40	10,500.0	0.011	17.00	0.33	4.70	4.00
555697	135.00	136.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.006	0.050	1.00	2.10	24.90	10,650.0	0.011	18.00	0.37	4.40	5.00
555698	136.00	137.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.001	0.040	3.90	2.20	21.70	8,700.0	0.013	14.00	0.24	3.60	4.00
555700	137.00	138.00	1.00	2	VO18233813 - Finalized	01/10/2018	0.002	0.010	12.50	2.90	23.40	10,250.0	0.009	19.00	0.24	4.00	5.00
555701	138.00	139.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.002	0.040	5.60	2.60	25.80	11,450.0	0.009	20.00	0.33	5.30	6.00
555702	139.00	140.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.001	0.010	16.10	3.40	23.20	10,650.0	0.007	24.00	0.24	5.30	11.00
555703	140.00	141.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.001	0.010	10.10	1.40	23.50	9,440.0	0.005	9.00	0.19	3.00	10.00
555704	141.00	142.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.001	0.010	1.60	0.40	24.40	9,460.0	0.006	5.00	0.05	0.80	17.00
555705	142.00	143.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.001	0.005	4.00	1.10	27.10	8,630.0	0.003	7.00	0.06	1.20	18.00
555707	143.00	144.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.094	0.005	0.30	1.20	19.10	5,510.0	0.003	6.00	0.06	1.00	13.00
555708	144.00	145.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.001	0.005	1.90	2.30	25.30	6,950.0	0.003	6.00	0.13	1.70	18.00
555709	145.00	146.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.003	0.030	123.00	5.80	26.20	7,820.0	0.003	8.00	0.24	3.80	8.00
555710	146.00	147.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.001	0.010	11.00	3.40	26.60	10,700.0	0.003	26.00	0.32	6.30	7.00
555711	147.00	148.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.001	0.010	0.70	5.10	19.55	9,030.0	0.003	24.00	0.34	6.90	9.00





## Detailed Log Report

### Hole Number OSK-KAN-18-025

Project		Coordinates		Collar			
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	65.00	<b>Collar Az:</b>	270.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 369 102.00	<b>Length:</b>	604.00	<b>Hole Size:</b>	NQ
<b>Start Date:</b>	September 6, 2018	<b>East:</b>	486 609.00	<b>Hole Type:</b>	DDH	<b>Surveyed:</b>	N
<b>Completed Date:</b>	September 15, 2018	<b>Elev:</b>	165.90	<b>Casing Length:</b>	9.00	<b>Pulled:</b>	N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	Y	<b>Making Water:</b>	Y
<b>Logger 1:</b>	Simon Hebert			<b>Multi Shot:</b>	Y	<b>Section:</b>	N.A.
<b>Target:</b>	600m			<b>Claims Title:</b>	2099198	<b>Township:</b>	Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06	<b>Log Complete:</b>	Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing		

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	9.00	<b>OVB, Overburden</b>					
<b>Comments:</b>							
9.00	24.90	<b>S6, Mudrock</b>	558312	9.00	11.00	2.00	S6g GP; 9% Po SS BD 2% Py SUB BD; 1% I1N QZ 80°
			558313	11.00	13.00	2.00	S6g GP; 9% Po SS BD 2% Py SUB BD; 1% I1N QZ 80°
<b>Comments:</b>							
			558314	13.00	15.00	2.00	S6g GP; 9% Po SS BD 2% Py SUB BD; 1% I1N QZ 80°
			558315	15.00	17.00	2.00	S6g GP; 9% Po SS BD 2% Py SUB BD; 1% I1N QZ 80°
			558317	17.00	19.00	2.00	S6g GP; 9% Po SS BD 2% Py SUB BD; 1% I1N QZ 80°
			558318	19.00	21.00	2.00	S6g GP; 9% Po SS BD 2% Py SUB BD; 1% I1N QZ 80°
			558319	21.00	23.00	2.00	S6g GP; 9% Po SS BD 2% Py SUB BD; 1% I1N QZ 80°
			558320	23.00	24.90	1.90	S6g GP; 9% Po SS BD 2% Py SUB BD; 1% I1N QZ 80°

From	To	Lithology	Sample	From	To	Length	Comments
24.90	58.80	<b>S9, Iron formation</b>	555712	24.90	26.00	1.10	S9C Sid; Ank-2; 1% Po AL BD 2% Po AL VN; 4% I1N QZ AK 50°
			555713	26.00	27.00	1.00	S9C Sid; Ank-2; 1% Po AL BD 2% Po AL VN; 4% I1N QZ AK 50°
<b>Comments:</b>			555714	27.00	28.00	1.00	S9C Sid; Ank-2; 1% Po AL BD 2% Po AL VN; 4% I1N QZ AK 50°
			555715	28.00	29.00	1.00	S9C Sid; Ank-2; 1% Po AL BD 2% Po AL VN; 4% I1N QZ AK 50°
			555716	29.00	29.80	0.80	S9C Sid; Ank-2; 1% Po AL BD 2% Po AL VN; 4% I1N QZ AK 50°
			555717	29.80	31.00	1.20	S9C Ank; Ank-3 Chl-3; 0.1% Po AL VN; 5% I1N QZ AK 50°
			555718	31.00	32.00	1.00	S9C Ank; Ank-3 Chl-3; 0.1% Po AL VN; 5% I1N QZ AK 50°
			555720	32.00	33.00	1.00	S9C Ank; Ank-3 Chl-3; 0.1% Po AL VN; 5% I1N QZ AK 50°
			555721	33.00	34.00	1.00	S9C Ank; Ank-3 Chl-3; 0.1% Po AL VN; 5% I1N QZ AK 50°
			555722	34.00	35.00	1.00	S9C Ank; Ank-3 Chl-3; 0.1% Po AL VN; 5% I1N QZ AK 50°
			555723	35.00	36.00	1.00	S9C Ank; Ank-3 Chl-3; 0.1% Po AL VN; 5% I1N QZ AK 50°
			555724	36.00	37.00	1.00	S9C Ank; Ank-3 Chl-3; 0.1% Po AL VN; 5% I1N QZ AK 50°
			555725	37.00	38.00	1.00	S9C Ank; Ank-3 Chl-3; 0.1% Po AL VN; 5% I1N QZ AK 50°
			555727	38.00	39.00	1.00	S9C Ank; Ank-3 Chl-3; 0.1% Po AL VN; 5% I1N QZ AK 50°
			555728	39.00	40.00	1.00	S9C Ank; Ank-3 Chl-3; 0.1% Po AL VN; 5% I1N QZ AK 50°
			555729	40.00	41.00	1.00	S9C Ank; Ank-3 Chl-3; 0.1% Po AL VN; 25% I1N QZ AK 30°
			555730	41.00	42.00	1.00	S9C Ank; Ank-3 Chl-3; 0.1% Po AL VN; 25% I1N QZ AK 30°
			555731	42.00	43.00	1.00	S9C Ank; Ank-3 Chl-3; 0.1% Po AL VN; 5% I1N QZ AK 80°
			555732	43.00	44.00	1.00	S9C Sid; Ank-3 Chl-3; 0.1% Po AL VN; 4% I1N QZ AK 80°
			555733	44.00	45.00	1.00	S9C Sid; Ank-3 Chl-3; 0.1% Po AL VN; 4% I1N QZ AK 80°
			555734	45.00	46.00	1.00	S9C Sid; Ank-3 Chl-3; 0.1% Po AL VN; 4% I1N QZ AK 80°
			555735	46.00	47.00	1.00	S9C Sid; Ank-3 Chl-3; 0.1% Po AL VN; 4% I1N QZ AK 80°
			555736	47.00	48.00	1.00	S9C Sid; Ank-3 Chl-3; 0.1% Po AL VN; 4% I1N QZ AK 80°
			555737	48.00	49.00	1.00	S9C Sid; Ank-3 Chl-3; 0.1% Po AL VN; 4% I1N QZ AK 80°
			555738	49.00	50.00	1.00	S9C Sid; Ank-3 Chl-3; 0.1% Po AL VN; 4% I1N QZ AK 80°
			555740	50.00	51.00	1.00	S9C Sid; Ank-3 Chl-3; 0.1% Po AL VN; 4% I1N QZ AK 80°
			555741	51.00	52.00	1.00	S9C Sid; Ank-3 Chl-3; 0.1% Po AL VN; 4% I1N QZ AK 80°
			555742	52.00	53.00	1.00	S9C Sid; Ank-3 Chl-3; 0.1% Po AL VN; 4% I1N QZ AK 80°
			555743	53.00	54.00	1.00	S9C Sid; Sil-5 Chl-3 Ank-3; 0.1% Po AL VN; 4% I1N QZ AK 80°
		555744	54.00	55.00	1.00	S9C Sid; Ank-3 Chl-2; 0.1% Po AL VN; 4% I1N QZ AK 80°	
		555745	55.00	56.00	1.00	S9C Sid; Ank-3 Chl-2; 0.1% Po AL VN; 4% I1N QZ AK 80°	
		555747	56.00	57.00	1.00	S9C Sid; Ank-3 Chl-2; 0.1% Po AL VN; 4% I1N QZ AK 80°	
		555748	57.00	58.00	1.00	S9C Sid; Ank-3 Chl-2; 0.1% Po AL VN; 4% I1N QZ AK 80°	
		555749	58.00	58.80	0.80	S9C Sid; Ank-3 Chl-2; 0.1% Po AL VN; 4% I1N QZ AK 80°	
58.80	61.25	<b>S6, Mudrock</b>	558321	58.80	60.00	1.20	S6; Ank-3 Chl-2; 4% Po SS BD; 3% I1N QZ AK 85°
			558322	60.00	61.25	1.25	S6; Ank-3 Chl-2; 4% Po SS BD; 3% I1N QZ AK 85°
<b>Comments:</b>							

From	To	Lithology	Sample	From	To	Length	Comments
61.25	67.30	I3A, Gabbro	558323	61.25	63.00	1.75	S6g; CC-5; 1% I1N QZ AK 85°
			558324	63.00	65.00	2.00	S6g; CC-5; 1% I1N QZ AK 85°
			558325	65.00	67.00	2.00	S6g; CC-5; 1% I1N QZ AK 85°
			558326	67.00	67.30	0.30	S6g; CC-5; 1% I1N QZ AK 85°
67.30	110.20	S6g, Grey Shale	558327	67.30	69.00	1.70	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558328	69.00	71.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558330	71.00	73.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558331	73.00	74.40	1.40	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558332	74.40	76.00	1.60	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558333	76.00	78.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558334	78.00	80.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558335	80.00	82.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558337	82.00	84.00	2.00	S6g; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558338	84.00	86.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558339	86.00	88.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558340	88.00	90.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558341	90.00	92.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558342	92.00	94.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558343	94.00	96.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558344	96.00	98.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558345	98.00	100.00	2.00	S6g; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558346	100.00	102.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
			558347	102.00	104.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°
558348	104.00	106.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°			
558350	106.00	108.00	2.00	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°			
558351	108.00	110.20	2.20	S6g; Ank-1; 0.1% Po DI VN; 3% I1N QZ AK 85°			
110.20	118.70	I3A, Gabbro	558352	110.20	112.00	1.80	I3A Chl-Cal; CC-5; 0.1% I1N QZ AK 60°
			558353	112.00	114.00	2.00	I3A Chl-Cal; CC-5; 0.1% I1N QZ AK 60°
			558354	114.00	116.00	2.00	I3A Chl-Cal; CC-5; 0.1% I1N QZ AK 60°
			558355	116.00	118.00	2.00	I3A Chl-Cal; CC-5; 0.1% I1N QZ AK 60°
			558357	118.00	120.00	2.00	
118.70	124.75	S9, Iron formation	558358	120.00	121.00	1.00	S9C Ank; Ank-1 Chl-2 Chl-1; 0.1% Po DI VN; 0.1% I1N QZ AK
			555750	121.00	122.00	1.00	S9C Ank; Ank-1 Chl-2 Chl-1; 0.1% Po DI VN; 0.1% I1N QZ AK
			555751	122.00	123.00	1.00	S9C Ank; Ank-4 Chl-3 Chl-2; 2% Po AL VN 0.1% Po DI PER; 7% I1N QZ AK
			555752	123.00	124.00	1.00	S9C Ank; Ank-4 Chl-3 Chl-2; 2% Po AL VN 0.1% Po DI PER; 7% I1N QZ AK
			555753	124.00	124.75	0.75	S9C Ank; Ank-4 Chl-3 Chl-2; 2% Po AL VN 0.1% Po DI PER; 7% I1N QZ AK
124.75	125.90	S6, Mudrock	558359	124.75	125.90	1.15	S6 GP; NO ALT; 25% Po WK BD 7% Py SUB BD; 5% I1N QZ AK

From	To	Lithology	Sample	From	To	Length	Comments
125.90	192.50	S9, Iron formation	555754	125.90	127.00	1.10	S9C Ank; Ank-4 Chl-3 Ank-2 Chl-1; 4% Po AL VN; 5% I1N QZ AK
			555755	127.00	128.00	1.00	S9C Ank; Ank-4 Chl-3 Ank-2 Chl-1; 4% Po AL VN; 5% I1N QZ AK
			555756	128.00	129.00	1.00	S9C Ank; Ank-4 Chl-3 Ank-2 Chl-1; 4% Po AL VN; 5% I1N QZ AK
			555757	129.00	130.00	1.00	S9C Ank; Ank-4 Chl-3 Ank-2 Chl-1; 4% Po AL VN; 5% I1N QZ AK
			555758	130.00	131.00	1.00	S9C Ank; Ank-4 Chl-3 Ank-2 Chl-1; 4% Po AL VN; 5% I1N QZ AK
			555760	131.00	132.00	1.00	S9C Ank; Ank-4 Chl-3 Ank-2 Chl-1; 4% Po AL VN; 5% I1N QZ AK
			555761	132.00	133.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555762	133.00	134.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555763	134.00	135.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555764	135.00	136.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555765	136.00	137.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555767	137.00	138.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555768	138.00	139.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555769	139.00	140.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555770	140.00	141.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555771	141.00	142.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555772	142.00	143.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555773	143.00	144.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555774	144.00	145.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555775	145.00	146.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555776	146.00	147.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555777	147.00	148.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555778	148.00	149.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555780	149.00	150.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555781	150.00	151.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555782	151.00	152.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555783	152.00	153.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555784	153.00	154.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555785	154.00	155.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555787	155.00	156.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
		555788	156.00	157.00	1.00	S9C Ank; Ank-4 Chl-2; 2% Po AL PER; 7% I1N QZ AK	
		555789	157.00	158.00	1.00	S9C Ank; Ank-4 Chl-2; 2% Po AL PER; 7% I1N QZ AK	
		555790	158.00	159.00	1.00	S9C Ank; Ank-4 Chl-2; 2% Po AL PER; 7% I1N QZ AK	
		555791	159.00	159.50	0.50	S9C Ank; Ank-4 Chl-2; 2% Po AL PER; 7% I1N QZ AK	
		555792	159.50	160.00	0.50	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK	
		555793	160.00	161.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK	
		555794	161.00	162.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK	
		555795	162.00	163.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK	
		555796	163.00	164.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK	
		555797	164.00	165.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK	
		555798	165.00	166.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK	

Comments:

From	To	Lithology	Sample	From	To	Length	Comments
			555800	166.00	167.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK; FLD 5
			555801	167.00	168.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555802	168.00	169.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555803	169.00	170.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555804	170.00	171.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555805	171.00	172.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555807	172.00	173.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555808	173.00	174.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555809	174.00	175.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555810	175.00	176.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK; FLD 5
			555811	176.00	177.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK; FLD 5
			555812	177.00	178.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555813	178.00	179.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555814	179.00	180.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555815	180.00	181.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555816	181.00	182.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555817	182.00	183.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555818	183.00	184.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555820	184.00	185.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555821	185.00	186.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK; FLD 5
			555822	186.00	187.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK; FLD 5
			555823	187.00	188.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555824	188.00	189.00	1.00	S9C Ank; Ank-1 Chl-1; 1% Po DI PER; 1% I1N QZ AK
			555825	189.00	190.00	1.00	S9C Ank; Ank-4 Chl-2; 2% Po AL PER; 8% I1N QZ AK 90°
			555827	190.00	191.00	1.00	S9C Ank; Ank-4 Chl-2; 2% Po AL PER; 8% I1N QZ AK 90°
			555828	191.00	192.50	1.50	S9C Ank; Ank-4 Chl-2; 2% Po AL PER; 8% I1N QZ AK 90°
192.50	202.10	I3A, Gabbro	558360	192.50	194.00	1.50	I3A Chl-Cal; CC-5 CC-4; 0.1% Po DI PER; 2% I1N QZ CC 85°
			558361	194.00	196.00	2.00	I3A Chl-Cal; CC-5 CC-4; 0.1% Po DI PER; 2% I1N QZ CC 85°
			558362	196.00	198.00	2.00	I3A Chl-Cal; CC-5 CC-4; 0.1% Po DI PER; 2% I1N QZ CC 85°
			558363	198.00	200.00	2.00	I3A Chl-Cal; CC-5 CC-4; 0.1% Po DI PER; 2% I1N QZ CC 85°
			558364	200.00	202.10	2.10	I3A Chl-Cal; CC-5 CC-4; 0.1% Po DI PER; 2% I1N QZ CC 85°

Comments:

From	To	Lithology	Sample	From	To	Length	Comments
202.10	251.10	S6g, Grey Shale	558365	202.10	204.00	1.90	S6g; Ank-1; 0.1% Po DI PER; 3% I1N QZ AK
			558366	204.00	206.00	2.00	S6g; Ank-1; 0.1% Po DI PER
<b>Comments:</b>			558367	206.00	208.00	2.00	S6g; Ank-1; 0.1% Po DI PER; 5% I1N QZ CL 70°
			558368	208.00	210.00	2.00	S6g; Ank-1; 0.1% Po DI PER; 5% I1N QZ CL 70°
			558370	210.00	212.00	2.00	S6g; Ank-1; 0.1% Po DI PER; 5% I1N QZ CL 70°
			558371	212.00	214.00	2.00	S6g; Ank-1; 0.1% Po DI PER
			558372	214.00	216.00	2.00	S6g; Ank-1; 0.1% Po DI PER; 2% I1N QZ CL 80°
			558373	216.00	218.00	2.00	S6g; Ank-1; 0.1% Po DI PER; 2% I1N QZ CL 80°
			558374	218.00	220.00	2.00	S6g; Ank-1; 0.1% Po DI PER; 2% I1N QZ CL 80°
			558375	220.00	222.00	2.00	S6g; Ank-1; 0.1% Po DI PER; 2% I1N QZ CL 80°
			558377	222.00	224.00	2.00	S6g; Ank-1; 0.1% Po DI PER; 2% I1N QZ CL 80°
			558378	224.00	226.00	2.00	S6g; Ank-1; 0.1% Po DI PER; 2% I1N QZ CL 80°
			558379	226.00	228.00	2.00	S6g; Ank-1; 0.1% Po DI PER; 2% I1N QZ CL 80°
			558380	228.00	230.00	2.00	S6g; Ank-1; 0.1% Po DI PER; 2% I1N QZ CL 80°
			558381	230.00	232.00	2.00	S6g; Ank-1; 0.1% Po DI PER; 2% I1N QZ CL 80°
			558382	232.00	234.00	2.00	S6g; Ank-1; 0.1% Po DI PER; 2% I1N QZ CL 80°
			558383	234.00	236.00	2.00	S6g
			558384	236.00	238.00	2.00	S6g; Sil-2 Chl-3 Chl-3 K-2; 0.4% Po DI PER; 4% I1N QZ CL 82°
			558385	238.00	240.00	2.00	S6g; Sil-2 Chl-3 Chl-3 K-2; 0.4% Po DI PER; 4% I1N QZ CL 82°
			558386	240.00	242.00	2.00	S6g; Sil-2 Chl-3 Chl-3 K-2; 0.4% Po DI PER; 4% I1N QZ CL 82°
			558387	242.00	244.00	2.00	S6g; Sil-2 Chl-3 Chl-3 K-2; 0.4% Po DI PER; 4% I1N QZ CL 82°
			558388	244.00	246.00	2.00	S6g; Sil-2 Chl-3 Chl-3 K-2; 0.4% Po DI PER; 4% I1N QZ CL 82°
			558390	246.00	248.00	2.00	S6g; Sil-2 Chl-3 Chl-3 K-2; 0.4% Po DI PER; 4% I1N QZ CL 82°
			558391	248.00	250.00	2.00	S6g; Sil-2 Chl-3 Chl-3 K-2; 0.4% Po DI PER; 4% I1N QZ CL 82°
			558392	250.00	251.10	1.10	S6g; 0.4% Po DI PER

From	To	Lithology	Sample	From	To	Length	Comments
251.10	410.35	I3A, Gabbro	558393	251.10	253.00	1.90	I3A QZ; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558394	253.00	255.00	2.00	I3A QZ; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
<b>Comments:</b>			558395	255.00	257.00	2.00	I3A QZ; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558397	257.00	259.00	2.00	I3A QZ; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558398	259.00	261.00	2.00	I3A QZ; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558399	261.00	263.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558400	263.00	265.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558401	265.00	267.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558402	267.00	269.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558403	269.00	271.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558404	271.00	273.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558405	273.00	275.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558406	275.00	277.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558407	277.00	279.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558408	279.00	281.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558410	281.00	283.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558411	283.00	285.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558412	285.00	287.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558413	287.00	289.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558414	289.00	291.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558415	291.00	293.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558417	293.00	295.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558418	295.00	297.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558419	297.00	299.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558420	299.00	301.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558421	301.00	303.00	2.00	I3A; CC-2; 0.5% Po DI PER; 0.1% I1N QZ CC
			558422	303.00	305.00	2.00	I3A; 0.5% Po DI PER; 90% I1N QZ CL 10°
			558423	305.00	307.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558424	307.00	309.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558425	309.00	311.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558426	311.00	313.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558427	313.00	315.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558428	315.00	317.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558430	317.00	319.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558431	319.00	321.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558432	321.00	323.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558433	323.00	325.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558434	325.00	327.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558435	327.00	329.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558437	329.00	331.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558438	331.00	333.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC

From	To	Lithology	Sample	From	To	Length	Comments
			558439	333.00	335.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558440	335.00	337.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558441	337.00	339.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558442	339.00	341.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558443	341.00	343.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558444	343.00	345.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558445	345.00	347.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558446	347.00	349.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558447	349.00	351.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558448	351.00	353.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558450	353.00	355.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558501	355.00	357.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558502	357.00	359.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558503	359.00	361.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558504	361.00	363.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558505	363.00	365.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558506	365.00	367.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558507	367.00	369.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558508	369.00	371.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558510	371.00	373.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558511	373.00	375.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558512	375.00	377.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558513	377.00	379.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558514	379.00	381.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558515	381.00	383.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558517	383.00	385.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558518	385.00	387.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558519	387.00	389.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558520	389.00	391.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558521	391.00	393.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558522	393.00	395.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558523	395.00	396.00	1.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558530	396.00	397.00	1.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558524	397.00	399.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558525	399.00	400.30	1.30	; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558526	400.30	403.00	2.70	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558527	403.00	405.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558528	405.00	407.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558531	407.00	409.00	2.00	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC
			558532	409.00	410.35	1.35	I3A; CC-4; 0.5% Po DI PER; 0.1% I1N QZ CC



From	To	Lithology	Sample	From	To	Length	Comments		
410.35	430.90	S6g, Grey Shale	558533	410.35	412.00	1.65	S6g; CC-3 CC-3 Chl-3; 1% Po DI VN; 7% I1N QZ CL 60°		
			558534	412.00	414.00	2.00	S6g; CC-3 CC-3 Chl-3; 1% Po DI VN; 7% I1N QZ CL 60°		
			<b>Comments:</b>		558535	414.00	416.00	2.00	S6g; 1% Po DI VN
			558537	416.00	418.00	2.00	S6g; Ank-2 Chl-2; 1% Po DI VN; 2% I1N QZ CL 60°		
			558538	418.00	420.00	2.00	S6g; Ank-2 Chl-2; 1% Po DI VN; 2% I1N QZ CL 60°		
			558539	420.00	422.00	2.00	S6g; Ank-2 Chl-2; 1% Po DI VN; 2% I1N QZ CL 60°		
			558540	422.00	424.00	2.00	S6g; Ank-2 Chl-2; 1% Po DI VN; 2% I1N QZ CL 60°		
			558541	424.00	426.00	2.00	S6g; Ank-2 Chl-2; 1% Po DI VN; 2% I1N QZ CL 60°		
			558542	426.00	428.00	2.00	S6g; Ank-2 Chl-2; 1% Po DI VN; 2% I1N QZ CL 60°		
			558543	428.00	430.00	2.00	S6g; Ank-2 Chl-2; 1% Po DI VN; 10% I1N QZ AK 80°		
558544	430.00	430.88	0.88	S6g; Ank-2 Chl-2; 1% Po DI VN					
430.90	434.15	S6, Mudrock	558545	430.90	432.00	1.10	S6 GP; NO ALT; 9% Po SS BD 0.1% Py DI PER		
			558546	432.00	434.13	2.13	S6 GP; NO ALT; 9% Po SS BD 0.1% Py DI PER		
<b>Comments:</b>									
434.15	438.20	S6g, Grey Shale	558547	434.15	436.00	1.85	S6g; Sil-4 Ank-3 Chl-2; 4% Po AL PER 1% Po AL VN 0.5% Py DI VN; 4% I1N QZ AK 80°		
			558548	436.00	438.20	2.20	S6g; Sil-4 Ank-3 Chl-2; 4% Po AL PER 1% Po AL VN 0.5% Py DI VN; 4% I1N QZ AK 80°		
<b>Comments:</b>									
438.20	439.75	S6, Mudrock	558550	438.20	439.75	1.55	S6; NO ALT; 8% Po SS BD; 0.1% I1N QZ AK		
<b>Comments:</b>									
439.75	452.85	S9, Iron formation	555829	439.75	441.00	1.25	S9C Ank; Ank-2; 0.1% Po DI VN; 10% I1N QZ AK 40°		
			555830	441.00	442.00	1.00	S9C Ank; Ank-2; 0.1% Po DI VN; 10% I1N QZ AK 40°		
			555831	442.00	443.00	1.00	S9C Ank; Ank-2; 0.1% Po DI VN; 10% I1N QZ AK 40°		
			555832	443.00	444.00	1.00	S9C Ank; Ank-2; 0.1% Po DI VN; 10% I1N QZ AK 40°		
			555833	444.00	445.00	1.00	S9C Ank; Ank-2; 0.1% Po DI VN; 10% I1N QZ AK 40°		
			555834	445.00	446.00	1.00	S9C Ank; Ank-2; 0.1% Po DI VN		
			555835	446.00	447.00	1.00	S9C Ank; Ank-2; 0.1% Po DI VN; 0.1% I1N QZ AK 45°		
			555836	447.00	448.00	1.00	S9C Ank; Ank-2; 0.1% Po DI VN; 0.1% I1N QZ AK 45°		
			555837	448.00	449.00	1.00	S9C Ank; Ank-2; 0.1% Po DI VN; 10% I1N QZ AK 40°		
			555838	449.00	450.00	1.00	S9C Ank; Ank-2; 0.1% Po DI VN; 10% I1N QZ AK 40°		
			555840	450.00	451.00	1.00	S9C Ank; Ank-2; 0.1% Po DI VN; 10% I1N QZ AK 40°		
			555841	451.00	452.00	1.00	S9C Ank; Ank-2; 0.1% Po DI VN; 10% I1N QZ AK 40°		
555842	452.00	452.85	0.85	S9C Ank; Ank-2; 0.1% Po DI VN; 10% I1N QZ AK 40°					
452.85	457.50	S6g, Grey Shale	555843	452.85	454.00	1.15	S6g; Ank-4 Chl-2; 1% Po DI PER 1% Po AL VN; 6% I1N QZ AK 65°		
			555844	454.00	455.00	1.00	S6g; Ank-4 Chl-2; 1% Po DI PER 1% Po AL VN; 6% I1N QZ AK 65°		
			555845	455.00	456.00	1.00	S6g; Ank-4 Chl-2; 1% Po DI PER 1% Po AL VN; 6% I1N QZ AK 65°		
			555847	456.00	457.00	1.00	S6g; Ank-4 Chl-2; 1% Po DI PER 1% Po AL VN; 6% I1N QZ AK 65°		
			555848	457.00	457.50	0.50	S6g; Ank-4 Chl-2; 1% Po DI PER 1% Po AL VN; 6% I1N QZ AK 65°		
<b>Comments:</b>									

From	To	Lithology	Sample	From	To	Length	Comments
457.50	463.10	I3A, Gabbro	558551	457.50	458.35	0.85	I3A Chl-Ank; Ank-5 Ank-4; 0.1% Po DI PER
			558552	458.35	460.00	1.65	I3A Chl-Ank; Ank-5 Ank-4; 0.1% Po DI PER; 5% I1N QZ AK 60°
			558553	460.00	462.00	2.00	I3A Chl-Ank; Ank-5 Ank-4; 0.1% Po DI PER; 5% I1N QZ AK 60°
			558554	462.00	463.10	1.10	I3A Chl-Ank; Ank-5 Ank-4; 0.1% Po DI PER; 5% I1N QZ AK 60°
<b>Comments:</b>							
463.10	464.20	S6g, Grey Shale	558555	463.10	464.20	1.10	S6g; Sil-2 Ank-1 Chl-1; 1% Po DI PER 0.1% Po DI VN; 2% I1N QZ AK 60°
<b>Comments:</b>							
464.20	469.50	S9, Iron formation	555849	464.20	465.00	0.80	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.1% Py DI VN 0.1% Cp DI VN 2% Po AL PER; 12% I1N QZ AK 60°
			555850	465.00	466.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.1% Py DI VN 0.1% Cp DI VN 2% Po AL PER; 12% I1N QZ AK 60°
			555851	466.00	467.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.1% Py DI VN 0.1% Cp DI VN 2% Po AL PER; 12% I1N QZ AK 60°
			555852	467.00	468.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.1% Py DI VN 0.1% Cp DI VN 2% Po AL PER; 12% I1N QZ AK 60°
			555853	468.00	469.00	1.00	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.1% Py DI VN 0.1% Cp DI VN 2% Po AL PER; 12% I1N QZ AK 60°
			555854	469.00	469.50	0.50	S9C Ank; Ank-5 Chl-3; 2% Po DI VN 0.1% Py DI VN 0.1% Cp DI VN 2% Po AL PER; 12% I1N QZ AK 60°
<b>Comments:</b>							
469.50	470.60	I3A, Gabbro	558556	469.50	470.60	1.10	I3A Chl-Ank; Ank-3 Ank-5; 0.5% Po DI PER; 0.1% I1N QZ AK 70°
<b>Comments:</b>							
470.60	473.40	S6g, Grey Shale	555855	470.70	472.00	1.30	S6g; Ser-4 Ank-4 Ank-2; 2% Po AL BD; 8% I1N QZ AK 60°
			555856	472.00	473.00	1.00	S6g; Ser-4 Ank-4 Ank-2; 2% Po AL BD; 8% I1N QZ AK 60°
			555857	473.00	473.40	0.40	S6g; Ser-4 Ank-4 Ank-2; 2% Po AL BD; 8% I1N QZ AK 60°
<b>Comments:</b>							
473.40	494.75	S6, Mudrock	558557	473.40	475.00	1.60	S6 GP; Ank-1; 8% Py SUB BD 2% Po SS BD; 0.5% I1N QZ AK 55°
			558558	475.00	477.00	2.00	S6 GP; Ank-1; 8% Py SUB BD 2% Po SS BD; 0.5% I1N QZ AK 55°
			558560	477.00	479.00	2.00	S6 GP; Ank-1; 8% Py SUB BD 2% Po SS BD; 0.5% I1N QZ AK 55°
			558561	479.00	481.00	2.00	S6 GP; Ank-1; 8% Py SUB BD 2% Po SS BD; 0.5% I1N QZ AK 55°
			558562	481.00	483.00	2.00	S6 GP; Ank-1; 8% Py SUB BD 2% Po SS BD; 0.5% I1N QZ AK 55°
			558563	483.00	485.00	2.00	S6 GP; Ank-1; 8% Py SUB BD 2% Po SS BD; 0.5% I1N QZ AK 55°
			558564	485.00	487.00	2.00	S6 GP; Ank-1; 8% Py SUB BD 2% Po SS BD; 0.5% I1N QZ AK 55°
			558565	487.00	489.00	2.00	S6 GP; Ank-1; 8% Py SUB BD 2% Po SS BD; 0.5% I1N QZ AK 55°
			558567	489.00	491.00	2.00	S6 GP; Ank-1; 8% Py SUB BD 2% Po SS BD; 0.5% I1N QZ AK 55°
			558568	491.00	493.00	2.00	S6 GP; Ank-1; 8% Py SUB BD 2% Po SS BD; 0.5% I1N QZ AK 55°
558569	493.00	494.75	1.75	S6 GP; Ank-1; 8% Py SUB BD 2% Po SS BD; 0.5% I1N QZ AK 55°			
<b>Comments:</b>							

From	To	Lithology	Sample	From	To	Length	Comments
494.75	503.15	<b>S6-S9, Mudrock-Iron formati</b>	558570	494.75	496.00	1.25	S6-S9; Ank-1; 0.5% I1N QZ AK 55°
			558571	496.00	498.00	2.00	S6-S9; Ank-1; 0.1% Po DI PER 0.1% Py DI PER; 0.5% I1N QZ AK 55°
			558572	498.00	500.00	2.00	S6-S9; Ank-1; 0.1% Po DI PER 0.1% Py DI PER; 0.5% I1N QZ AK 55°
			558573	500.00	502.00	2.00	S6-S9; Ank-1; 0.1% Po DI PER 0.1% Py DI PER; 0.5% I1N QZ AK 55°
			558574	502.00	503.15	1.15	S6-S9; Ank-1; 0.1% Po DI PER 0.1% Py DI PER; 0.5% I1N QZ AK 55°
<b>Comments:</b>							
503.15	518.80	<b>S6, Mudrock</b>	558575	503.15	505.00	1.85	S6 GP; Ank-1; 5% Py SUB PER 2% Po SS BD 0.1% Cp DI PER 0.1% Sp DI PER; 0.5% I1N QZ AK 55°
			558576	505.00	507.00	2.00	S6 GP; Ank-1; 5% Py SUB PER 2% Po SS BD 0.1% Cp DI PER 0.1% Sp DI PER; 0.5% I1N QZ AK 55°
			558577	507.00	509.00	2.00	S6 GP; Ank-1; 5% Py SUB PER 2% Po SS BD 0.1% Cp DI PER 0.1% Sp DI PER; 0.5% I1N QZ AK 55°
			558578	509.00	511.00	2.00	S6 GP; Ank-1; 5% Py SUB PER 2% Po SS BD 0.1% Cp DI PER 0.1% Sp DI PER; 0.5% I1N QZ AK 55°
			558580	511.00	513.00	2.00	S6 GP; Ank-1; 5% Py SUB PER 2% Po SS BD 0.1% Cp DI PER 0.1% Sp DI PER; 0.5% I1N QZ AK 55°
			558581	513.00	515.00	2.00	S6 GP; Ank-1; 5% Py SUB PER 2% Po SS BD 0.1% Cp DI PER 0.1% Sp DI PER; 0.5% I1N QZ AK 55°
			558582	515.00	517.00	2.00	S6 GP; Ank-1; 5% Py SUB PER 2% Po SS BD 0.1% Cp DI PER 0.1% Sp DI PER; 0.5% I1N QZ AK 55°
558583	517.00	518.80	1.80	S6 GP; Ank-1; 5% Py SUB PER 2% Po SS BD 0.1% Cp DI PER 0.1% Sp DI PER; 0.5% I1N QZ AK 55°			
<b>Comments:</b>							
518.80	527.00	<b>S6-S9, Mudrock-Iron formati</b>	558584	518.80	520.00	1.20	S6-S9; Ank-1; 0.1% Py DI PER 0.1% Po DI PER; 0.5% I1N QZ AK 55°
			558585	520.00	522.00	2.00	S6-S9; Ank-1; 0.1% Py DI PER 0.1% Po DI PER; 0.5% I1N QZ AK 55°
			558586	522.00	524.00	2.00	S6-S9; Ank-1; 0.1% Py DI PER 0.1% Po DI PER; 0.5% I1N QZ AK 55°
			558587	524.00	526.00	2.00	S6-S9; Ank-1; 0.1% Py DI PER 0.1% Po DI PER; 0.5% I1N QZ AK 55°
			558588	526.00	527.00	1.00	S6-S9; Ank-1; 0.1% Py DI PER 0.1% Po DI PER; 0.5% I1N QZ AK 55°
<b>Comments:</b>							
527.00	531.50	<b>S6, Mudrock</b>	558590	527.00	529.00	2.00	S6g GP; NO ALT; 7% Py SUB BD 2% Po SS BD; 0.5% I1N QZ AK 55°
			558591	529.00	531.00	2.00	S6g GP; NO ALT; 7% Py SUB BD 2% Po SS BD; 0.5% I1N QZ AK 55°
			558592	531.00	531.50	0.50	S6g GP; NO ALT; 7% Py SUB BD 2% Po SS BD; 0.5% I1N QZ AK 55°
<b>Comments:</b>							
531.50	532.45	<b>S6g, Grey Shale</b>	558593	531.50	532.45	0.95	S6g; NO ALT; 0.5% Po DI PER; 0.5% I1N QZ AK 55°
<b>Comments:</b>							

From	To	Lithology	Sample	From	To	Length	Comments	
532.45	552.15	<b>S6, Mudrock</b>	558594	532.45	534.00	1.55	S6; NO ALT; 3% Py SUB PER 3% Po SS BD; 0.5% I1N QZ AK 55°	
			558595	534.00	536.00	2.00	S6; NO ALT; 3% Py SUB PER 3% Po SS BD; 0.5% I1N QZ AK 55°	
			<b>Comments:</b>	558596	536.00	538.00	2.00	S6; NO ALT; 3% Py SUB PER 3% Po SS BD; 0.5% I1N QZ AK 55°
			558597	538.00	540.00	2.00	S6; NO ALT; 3% Py SUB PER 3% Po SS BD; 0.5% I1N QZ AK 55°	
			558598	540.00	542.00	2.00	S6; NO ALT; 3% Py SUB PER 3% Po SS BD; 0.5% I1N QZ AK 55°	
			558600	542.00	544.00	2.00	S6; NO ALT; 3% Py SUB PER 3% Po SS BD; 0.5% I1N QZ AK 55°	
			558601	544.00	546.00	2.00	S6; NO ALT; 3% Py SUB PER 3% Po SS BD; 0.5% I1N QZ AK 55°	
			558602	546.00	548.00	2.00	S6; NO ALT; 3% Py SUB PER 3% Po SS BD; 0.5% I1N QZ AK 55°	
			558603	548.00	550.00	2.00	S6; NO ALT; 3% Py SUB PER 3% Po SS BD; 0.5% I1N QZ AK 55°	
558604	550.00	552.15	2.15	S6; NO ALT; 3% Py SUB PER 3% Po SS BD; 0.5% I1N QZ AK 55°				
552.15	565.15	<b>S9, Iron formation</b>	555858	552.15	553.00	0.85	S9C Sid; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK 55°	
			555860	553.00	554.00	1.00	S9C Sid; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK 55°	
			<b>Comments:</b>	555861	554.00	555.00	1.00	S9C Sid; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK 55°
			555862	555.00	556.00	1.00	S9C Sid; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK 55°	
			555863	556.00	557.00	1.00	S9C Sid; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK 55°	
			555864	557.00	558.00	1.00	S9C Sid; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK 55°	
			555865	558.00	559.00	1.00	S9C Sid; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK 55°	
			555867	559.00	560.00	1.00	S9C Sid; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK 55°	
			555868	560.00	561.00	1.00	S9C Sid; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK 55°	
			555869	561.00	562.00	1.00	S9C Sid; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK 55°	
			555870	562.00	563.00	1.00	S9C Sid; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK 55°	
			555871	563.00	564.00	1.00	S9C Sid; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK 55°	
			555872	564.00	565.15	1.15	S9C Sid; NO ALT; 0.1% Po DI PER; 1% I1N QZ AK 55°	
565.15	569.25	<b>S6, Mudrock</b>	558605	565.15	567.00	1.85	S6 GP; NO ALT; 6% Po SS BD 3% Py SUB BD	
			558606	567.00	568.00	1.00	S6 GP; NO ALT; 6% Po SS BD 3% Py SUB BD	
			<b>Comments:</b>	558607	568.00	569.25	1.25	S6 GP; NO ALT; 6% Po SS BD 3% Py SUB BD
569.25	577.90	<b>S9, Iron formation</b>	555873	569.25	570.00	0.75	S9C Ank; Ank-3 Chl-1; 2% Po AL VN; 50% I1N QZ AB 70°	
			555874	570.00	571.00	1.00	S9C Ank; Ank-3 Chl-1; 2% Po AL VN; 50% I1N QZ AB 70°	
			<b>Comments:</b>	555875	571.00	572.00	1.00	S9C Ank; Ank-3 Chl-1; 2% Po AL VN; 50% I1N QZ AB 70°
			555876	572.00	573.00	1.00	S9C Sid; 0.5% Po DI PER; 0.5% I1N QZ AK 70°	
			555877	573.00	574.00	1.00	S9C Sid; 0.5% Po DI PER; 0.5% I1N QZ AK 70°	
			555878	574.00	575.00	1.00	S9C Sid; 0.5% Po DI PER; 0.5% I1N QZ AK 70°	
			555880	575.00	576.00	1.00	S9C Sid; 0.5% Po DI PER; 0.5% I1N QZ AK 70°	
			555881	576.00	577.00	1.00	S9C Sid; 0.5% Po DI PER; 0.5% I1N QZ AK 70°	
555882	577.00	577.90	0.90	S9C Sid; 0.5% Po DI PER; 0.5% I1N QZ AK 70°				

From	To	Lithology	Sample	From	To	Length	Comments
577.90	588.40	<b>S6, Mudrock</b>	558608	577.90	579.00	1.10	S6 GP; 4% Py SUB BD 0.5% Po DI BD; 0.5% I1N QZ AK 70°
<b>Comments:</b>	558610		579.00	581.00	2.00	S6 GP; 4% Py SUB BD 0.5% Po DI BD; 0.5% I1N QZ AK 70°	
	558611		581.00	583.00	2.00	S6 GP; 4% Py SUB BD 0.5% Po DI BD; 0.5% I1N QZ AK 70°	
	558612		583.00	584.00	1.00	S6 GP; 4% Py SUB BD 0.5% Po DI BD; 0.5% I1N QZ AK 70°	
	558613		584.00	585.40	1.40	S6 GP; 4% Py SUB BD 0.5% Po DI BD; 0.5% I1N QZ AK 70°	
	555883		585.40	586.00	0.60	S6 GP; 4% Py SUB BD 0.5% Po DI BD; 2% I1N QZ AK 75°	
	555884		586.00	587.00	1.00	S6 GP; 4% Py SUB BD 0.5% Po DI BD; 2% I1N QZ AK 75°	
	555885		587.00	588.40	1.40	S6 GP; 4% Py SUB BD 0.5% Po DI BD	
588.40	596.90	<b>S9, Iron formation</b>	555887	588.40	589.00	0.60	S9C Sid; 0.5% Po DI PER 0.5% Po AL VN; 0.5% I1N QZ AK
<b>Comments:</b>	555888		589.00	590.00	1.00	S9C Sid; 0.5% Po DI PER 0.5% Po AL VN; 0.5% I1N QZ AK	
	555889		590.00	591.00	1.00	S9C Sid; 0.5% Po DI PER 0.5% Po AL VN; 0.5% I1N QZ AK	
	555890		591.00	592.00	1.00	S9C Sid; 0.5% Po DI PER 0.5% Po AL VN; 0.5% I1N QZ AK	
	555891		592.00	593.00	1.00	S9C Sid; 0.5% Po DI PER 0.5% Po AL VN; 0.5% I1N QZ AK	
	555892		593.00	594.00	1.00	S9C Sid; 0.5% Po DI PER 0.5% Po AL VN; 0.5% I1N QZ AK	
	555893		594.00	595.00	1.00	S9C Sid; 0.5% Po DI PER 0.5% Po AL VN; 0.5% I1N QZ AK	
	555894		595.00	596.00	1.00	S9C Sid; 0.5% Po DI PER 0.5% Po AL VN; 0.5% I1N QZ AK	
555895	596.00	596.90	0.90	S9C Sid; 0.5% Po DI PER 0.5% Po AL VN; 0.5% I1N QZ AK			
596.90	604.00	<b>S6g, Grey Shale</b>	558614	596.90	598.00	1.10	S6g; 0.5% I1N QZ AK
<b>Comments:</b>	558615		598.00	600.00	2.00	S6g; 0.5% I1N QZ AK	
	558617		600.00	602.00	2.00	S6g; 0.5% I1N QZ AK	
	558618		602.00	604.00	2.00	S6g; 0.5% I1N QZ AK	

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
1.00	5.10	-64.80	FM	Test Non-OK	
4.00	337.20	-64.70	FM	Test Non-OK	
7.00	352.30	-65.90	FM	Test Non-OK	
10.00	351.00	-65.60	FM	Test Non-OK	
13.00	278.90	-64.60	FM	Test Non-OK	
16.00	261.70	-66.10	FM	Test Non-OK	
19.00	267.70	-64.50	FM	Test Non-OK	
22.00	271.60	-64.40	FM	Test OK-Accept	
25.00	270.30	-64.70	FM	Test Non-OK	
28.00	273.50	-64.00	FM	Test Non-OK	
31.00	272.00	-64.30	FM	Test OK-Accept	
34.00	272.10	-64.20	FM	Test OK-Accept	
37.00	271.90	-64.20	FM	Test OK-Accept	
40.00	271.80	-64.30	FM	Test OK-Accept	
43.00	271.90	-64.20	FM	Test OK-Accept	
46.00	271.60	-64.20	FM	Test OK-Accept	
49.00	270.70	-64.20	FM	Test OK-Accept	
52.00	271.20	-64.00	FM	Test OK-Accept	
55.00	271.10	-64.00	FM	Test OK-Accept	
58.00	270.40	-63.90	FM	Test OK-Accept	
61.00	271.70	-63.90	FM	Test OK-Accept	
64.00	271.60	-63.80	FM	Test OK-Accept	
67.00	271.30	-63.90	FM	Test OK-Accept	
70.00	266.40	-65.00	FM	Test Non-OK	
73.00	271.40	-63.80	FM	Test OK-Accept	
76.00	271.50	-63.70	FM	Test OK-Accept	
79.00	271.20	-63.60	FM	Test OK-Accept	
82.00	270.80	-63.50	FM	Test OK-Accept	
85.00	270.70	-63.40	FM	Test OK-Accept	
88.00	270.80	-63.30	FM	Test OK-Accept	
91.00	270.50	-63.10	FM	Test OK-Accept	
94.00	270.70	-62.90	FM	Test OK-Accept	
97.00	270.50	-62.60	FM	Test OK-Accept	
100.00	270.20	-62.50	FM	Test OK-Accept	
103.00	270.10	-62.40	FM	Test OK-Accept	
106.00	265.00	-63.60	FM	Test Non-OK	
109.00	270.30	-62.20	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
112.00	269.50	-62.10	FM	Test OK-Accept	
115.00	269.00	-62.00	FM	Test OK-Accept	
118.00	269.40	-61.90	FM	Test OK-Accept	
121.00	269.30	-61.80	FM	Test OK-Accept	
124.00	269.30	-61.60	FM	Test OK-Accept	
127.00	269.40	-61.60	FM	Test OK-Accept	
130.00	269.40	-61.60	FM	Test OK-Accept	
133.00	269.30	-61.60	FM	Test OK-Accept	
136.00	269.30	-61.60	FM	Test OK-Accept	
139.00	268.80	-61.50	FM	Test OK-Accept	
142.00	269.00	-61.50	FM	Test OK-Accept	
145.00	268.60	-61.50	FM	Test OK-Accept	
148.00	269.00	-61.50	FM	Test OK-Accept	
151.00	269.30	-61.40	FM	Test OK-Accept	
154.00	269.20	-61.40	FM	Test OK-Accept	
157.00	268.90	-61.40	FM	Test OK-Accept	
160.00	268.90	-61.30	FM	Test OK-Accept	
163.00	268.50	-61.30	FM	Test OK-Accept	
166.00	268.30	-61.20	FM	Test OK-Accept	
169.00	268.40	-61.20	FM	Test OK-Accept	
172.00	239.10	-67.50	FM	Test Non-OK	
175.00	268.30	-61.10	FM	Test OK-Accept	
178.00	268.00	-61.10	FM	Test OK-Accept	
181.00	267.90	-61.10	FM	Test OK-Accept	
184.00	268.00	-61.10	FM	Test OK-Accept	
187.00	268.00	-61.10	FM	Test OK-Accept	
190.00	267.90	-61.10	FM	Test OK-Accept	
193.00	268.10	-61.10	FM	Test OK-Accept	
196.00	268.20	-61.20	FM	Test OK-Accept	
199.00	267.40	-61.20	FM	Test OK-Accept	
202.00	267.80	-61.20	FM	Test OK-Accept	
205.00	267.50	-61.10	FM	Test OK-Accept	
208.00	267.50	-61.00	FM	Test OK-Accept	
211.00	267.40	-60.90	FM	Test OK-Accept	
214.00	267.30	-60.80	FM	Test OK-Accept	
217.00	267.10	-60.80	FM	Test OK-Accept	
220.00	267.10	-60.70	FM	Test OK-Accept	
223.00	266.90	-60.70	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
226.00	277.90	-57.80	FM	Test Non-OK	
229.00	267.00	-60.60	FM	Test OK-Accept	
232.00	266.70	-60.60	FM	Test OK-Accept	
235.00	266.50	-60.60	FM	Test OK-Accept	
238.00	266.60	-60.50	FM	Test OK-Accept	
241.00	266.30	-60.50	FM	Test OK-Accept	
244.00	266.40	-60.50	FM	Test OK-Accept	
247.00	266.30	-60.50	FM	Test OK-Accept	
250.00	266.30	-60.50	FM	Test OK-Accept	
253.00	266.10	-60.50	FM	Test OK-Accept	
256.00	262.10	-61.40	FM	Test OK-Accept	
259.00	266.00	-60.40	FM	Test OK-Accept	
262.00	265.90	-60.40	FM	Test OK-Accept	
265.00	266.10	-60.40	FM	Test OK-Accept	
268.00	266.20	-60.30	FM	Test OK-Accept	
271.00	266.30	-60.30	FM	Test OK-Accept	
274.00	266.40	-60.30	FM	Test OK-Accept	
277.00	266.50	-60.20	FM	Test OK-Accept	
280.00	266.40	-60.30	FM	Test OK-Accept	
283.00	266.60	-60.20	FM	Test OK-Accept	
286.00	266.50	-60.20	FM	Test OK-Accept	
289.00	266.50	-60.20	FM	Test OK-Accept	
292.00	266.50	-60.20	FM	Test OK-Accept	
295.00	266.20	-60.20	FM	Test OK-Accept	
298.00	266.30	-60.20	FM	Test OK-Accept	
301.00	266.60	-60.20	FM	Test OK-Accept	
304.00	266.20	-60.10	FM	Test OK-Accept	
307.00	266.00	-60.10	FM	Test OK-Accept	
310.00	266.10	-60.10	FM	Test OK-Accept	
313.00	266.40	-60.10	FM	Test OK-Accept	
316.00	254.20	-62.80	FM	Test Non-OK	
319.00	266.30	-60.10	FM	Test OK-Accept	
322.00	266.10	-60.10	FM	Test OK-Accept	
325.00	266.20	-60.10	FM	Test OK-Accept	
328.00	265.90	-60.10	FM	Test OK-Accept	
331.00	266.20	-60.00	FM	Test OK-Accept	
334.00	265.90	-60.10	FM	Test OK-Accept	
337.00	265.90	-60.00	FM	Test OK-Accept	



Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
340.00	265.50	-60.10	FM	Test OK-Accept	
343.00	265.70	-60.10	FM	Test OK-Accept	
346.00	265.40	-60.10	FM	Test OK-Accept	
349.00	265.80	-60.00	FM	Test OK-Accept	
352.00	265.00	-60.00	FM	Test OK-Accept	
355.00	265.30	-60.00	FM	Test OK-Accept	
358.00	265.30	-59.90	FM	Test OK-Accept	
361.00	265.50	-59.80	FM	Test OK-Accept	
364.00	265.30	-59.80	FM	Test OK-Accept	
367.00	264.90	-59.80	FM	Test OK-Accept	
370.00	265.20	-59.80	FM	Test OK-Accept	
373.00	264.90	-59.80	FM	Test OK-Accept	
376.00	264.70	-59.70	FM	Test OK-Accept	
379.00	264.90	-59.70	FM	Test OK-Accept	
382.00	264.90	-59.70	FM	Test OK-Accept	
385.00	264.80	-59.70	FM	Test OK-Accept	
388.00	264.80	-59.70	FM	Test OK-Accept	
391.00	264.60	-59.70	FM	Test OK-Accept	
394.00	264.80	-59.70	FM	Test OK-Accept	
397.00	264.70	-59.70	FM	Test OK-Accept	
400.00	264.60	-59.70	FM	Test OK-Accept	
403.00	264.00	-59.80	FM	Test OK-Accept	
406.00	263.90	-59.70	FM	Test OK-Accept	
409.00	263.60	-59.70	FM	Test OK-Accept	
412.00	263.30	-59.70	FM	Test OK-Accept	
415.00	263.20	-59.80	FM	Test OK-Accept	
418.00	263.00	-59.80	FM	Test OK-Accept	
421.00	262.80	-59.80	FM	Test OK-Accept	
424.00	262.50	-59.80	FM	Test OK-Accept	
427.00	262.50	-59.80	FM	Test OK-Accept	
430.00	262.30	-59.80	FM	Test OK-Accept	
433.00	262.00	-59.80	FM	Test OK-Accept	
436.00	261.50	-59.90	FM	Test OK-Accept	
439.00	261.60	-59.80	FM	Test OK-Accept	
442.00	261.40	-59.90	FM	Test OK-Accept	
445.00	261.20	-59.90	FM	Test OK-Accept	
448.00	261.20	-59.90	FM	Test OK-Accept	
451.00	261.40	-60.00	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
454.00	261.40	-60.00	FM	Test OK-Accept	
457.00	261.20	-60.10	FM	Test OK-Accept	
460.00	261.20	-60.10	FM	Test OK-Accept	
463.00	260.80	-60.10	FM	Test OK-Accept	
466.00	261.20	-60.00	FM	Test OK-Accept	
469.00	261.40	-59.90	FM	Test OK-Accept	
472.00	261.90	-59.90	FM	Test OK-Accept	
475.00	262.60	-59.90	FM	Test OK-Accept	
478.00	260.70	-59.80	FM	Test OK-Accept	
481.00	254.70	-59.80	FM	Test OK-Accept	
484.00	261.70	-59.90	FM	Test OK-Accept	
487.00	257.00	-59.80	FM	Test Non-OK	
490.00	261.90	-59.80	FM	Test OK-Accept	
493.00	261.70	-59.70	FM	Test OK-Accept	
496.00	261.80	-59.70	FM	Test OK-Accept	
499.00	261.00	-59.70	FM	Test OK-Accept	
502.00	261.00	-59.90	FM	Test OK-Accept	
505.00	261.10	-59.90	FM	Test OK-Accept	
508.00	260.40	-60.00	FM	Test OK-Accept	
511.00	261.00	-60.10	FM	Test OK-Accept	
514.00	261.00	-60.10	FM	Test OK-Accept	
517.00	261.00	-60.10	FM	Test OK-Accept	
520.00	259.10	-60.10	FM	Test OK-Accept	
523.00	258.80	-60.10	FM	Test Non-OK	
526.00	259.80	-60.20	FM	Test OK-Accept	
529.00	259.30	-60.20	FM	Test OK-Accept	
532.00	260.70	-60.30	FM	Test OK-Accept	
535.00	258.40	-60.30	FM	Test OK-Accept	
538.00	262.00	-60.40	FM	Test OK-Accept	
541.00	262.00	-60.40	FM	Test OK-Accept	
544.00	261.50	-60.40	FM	Test OK-Accept	
547.00	261.70	-60.40	FM	Test OK-Accept	
550.00	261.60	-60.40	FM	Test OK-Accept	
553.00	261.70	-60.40	FM	Test OK-Accept	
556.00	261.50	-60.40	FM	Test OK-Accept	
559.00	261.60	-60.40	FM	Test OK-Accept	
562.00	261.40	-60.50	FM	Test OK-Accept	
565.00	261.50	-60.50	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
568.00	261.30	-60.40	FM	Test OK-Accept	
571.00	261.50	-60.40	FM	Test OK-Accept	
574.00	261.40	-60.40	FM	Test OK-Accept	
577.00	261.30	-60.40	FM	Test OK-Accept	
580.00	261.70	-60.40	FM	Test OK-Accept	
583.00	261.80	-60.40	FM	Test OK-Accept	
586.00	261.40	-60.50	FM	Test OK-Accept	
589.00	261.40	-60.50	FM	Test OK-Accept	
592.00	261.40	-60.50	FM	Test OK-Accept	
595.00	261.30	-60.50	FM	Test OK-Accept	
598.00	262.50	-60.40	FM	Test OK-Accept	
601.00	262.70	-60.30	FM	Test OK-Accept	
604.00	262.30	-60.30	FM	Test OK-Accept	

## Lithology Data

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments	
9.00	24.90	S6	LA	HJ	BD		S6g GP			BK		1	Aph		80.00	SHP		
24.90	29.80	S9	HJ	BD	MA		S9C Sid	4.00	Silica	VM	GM	3	FG				DIF	
29.80	43.00	S9	HK	BD			S9C Ank	17.00	Silica	VL	GM	3	FG				DIF	
43.00	58.80	S9	HK	BD	MA		S9C Sid	3.00	Silica	VM	GM	3	FG				SHP	
58.80	61.25	S6	LA	HJ			S6			BK		1	Aph		73.00		SHP	
61.25	67.30	I3A	HJ	FO	MA		S6g			GD	BG	1	Aph				BC	
67.30	110.20	S6g	HK	LA	BD		S6g			GD	BG	1	Aph		65.00		SHP	Decimeter scale of sheared gabbro
110.20	118.70	I3A	HJ	FO	MA		I3A Chl-Cal			VM		1	FG		72.00		SHP	
118.70	124.75	S9	HK	BD	BX		S9C Ank	20.00	Silica	GM	VL	3	FG		80.00		SHP	
124.75	125.90	S6	HJ	LA			S6 GP			BK		1	Aph		80.00		SHP	
125.90	132.00	S9	HK	BD			S9C Ank	40.00	Carbonate	GM	V	3	FG				DIF	Ankerite chert beds
132.00	192.50	S9	HK	BD	BX		S9C Ank	10.00	Silica	GM	VM	3	FG				DIF	Transitonnal lower contact with level of grey shale and black shale from 191.5 to 192.5.
192.50	202.10	I3A	HJ	FO	MA	HK	I3A Chl-Cal			VM		1	MG		88.00		SHP	
202.10	251.10	S6g	HK	LA	BD		S6g			BK	VL	1	FG		65.00		SHP	
251.10	261.00	I3A	MA	FO	POR		I3A QZ			VM		2	MG				DIF	
261.00	396.00	I3A	MA	FO	POR	PI	I3A			VL		2	CG					Medium to coarse grained gabbro with local leucoxene. The plagioclase are locally pinkish and weagly altered by withe mica.
396.00	400.00	I3A	MA	FO	LA		I3A			VM	GD	1	FG					Sheared gabbro
400.00	410.35	I3A	MA	FO	POR		I3A			VM		1	MG					
410.35	430.90	S6g	HK	LA	BD		S6g			GD		1	Aph		30.00		SHP	

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
430.90	434.15	S6	HJ	LA			S6 GP			BK		1	Aph		60.00	SHP	
434.15	438.20	S6g	HK	LA			S6g			GD		1	Aph		80.00	SHP	This unit is characterised by decimeter scale back and grey shale.
438.20	439.75	S6	HJ	LA			S6			BK		1	Aph		50.00	SHP	
439.75	452.85	S9	HK	BD	BX		S9C Ank	20.00	Silica	GM	VM	3	FG		40.00	SHP	
452.85	457.50	S6g	HJ	LA	FO		S6g			GD	BK	1	Aph		65.00	SHP	
457.50	463.10	I3A	HJ	POR	PI	FO	I3A Chl-Ank			VM		1	MG		55.00	SHP	
463.10	464.20	S6g	HJ	LA	FO		S6g			GD		1	Aph		55.00	SHP	
464.20	469.50	S9	HK	BX	BD		S9C Ank	5.00	Silica	GM	VM	3	FG		70.00	SHP	
469.50	470.60	I3A	HJ	FO			I3A Chl-Ank			VM		2	MG		85.00	SHP	
470.60	473.40	S6g	HK	FO	LA		S6g			GD	BK	1	Aph		80.00	SHP	S9? With centimeter scale black shale abnds.
473.40	494.75	S6	HJ	LA			S6 GP			BK		1	Aph		70.00	SHP	
494.75	503.15	S6-S9	HJ	BD	LA		S6-S9			GM	BK	2	FG		70.00	SHP	Transitional unit between black shale and iron formation
503.15	518.80	S6	LA	HJ			S6 GP			BK		1	Aph			BC	
518.80	527.00	S6-S9	HJ	LA	BD		S6-S9			GM	BK	2	FG		70.00	SHP	
527.00	531.50	S6	HJ	LA			S6g GP			BK		1	Aph		90.00	SHP	
531.50	532.45	S6g	HJ	LA	BD		S6g			GM		1	FG		80.00	VN	
532.45	552.15	S6	HJ	LA			S6			BK		1	Aph			BRE	The lower contact presented a breachiated texture on 1 meters. Some clast present in the lowercontact are indentified to be the conglomeratic unit in the unit bellow.
552.15	565.15	S9	HK	BX	BT		S9C Sid			GM	VM	3	MG		80.00	SHP	Upper contact characterised by conglomeratic texture. Riche fine grained quartz matrix with mudstone and siltstone floated and rounded clasts
565.15	569.25	S6	HJ	LA			S6 GP			BK		1	Aph				

From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
569.25	572.00	S9	HK	BD			S9C Ank			GM		3	FG			VN	
572.00	577.90	S9	HJ	BD	RU		S9C Sid	15.00	Silica	GM		3	FG		80.00	SHP	
577.90	588.40	S6	HJ	LA			S6 GP			BK		1	Aph		68.00	SHP	
588.40	596.90	S9	HJ	BD			S9C Sid	30.00	Silica	VM	GM	3	FG		75.00	SHP	
596.90	604.00	S6g	HJ	LA	BD		S6g			GM		1	Aph				

**Mineralization Data**

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
9.00	24.90		Po	9.00	SS	BD		Py	2.00	SUB	BD						
24.90	29.80		Po	1.00	AL	BD		Po	2.00	AL	VN						
29.80	43.00		Po	0.10	AL	VN											
43.00	58.80		Po	0.10	AL	VN											
58.80	61.25		Po	4.00	SS	BD											
67.30	110.20		Po	0.10	DI	VN											
118.70	122.00		Po	0.10	DI	VN											
122.00	124.75		Po	2.00	AL	VN		Po	0.10	DI	PER						
124.75	125.90		Po	25.00	WK	BD		Py	7.00	SUB	BD						
125.90	132.00		Po	4.00	AL	VN											
132.00	156.00		Po	1.00	DI	PER											
156.00	159.50		Po	2.00	AL	PER											
159.50	189.00		Po	1.00	DI	PER											
189.00	192.50		Po	2.00	AL	PER											
192.50	202.10		Po	0.10	DI	PER											
202.10	235.25		Po	0.10	DI	PER											
235.25	251.10		Po	0.40	DI	PER											
251.10	410.35		Po	0.50	DI	PER											
410.35	430.90		Po	1.00	DI	VN											
430.90	434.15		Po	9.00	SS	BD		Py	0.10	DI	PER						
434.15	438.20		Po	4.00	AL	PER		Po	1.00	AL	VN		Py	0.50	DI	VN	
438.20	439.75		Po	8.00	SS	BD											
439.75	452.85		Po	0.10	DI	VN											
452.85	457.50		Po	1.00	DI	PER		Po	1.00	AL	VN						
457.50	463.10		Po	0.10	DI	PER											
463.10	464.20		Po	1.00	DI	PER		Po	0.10	DI	VN						
464.20	469.50		Po	2.00	DI	VN		Py	0.10	DI	VN		Cp	0.10	DI	VN	
469.50	470.60		Po	0.50	DI	PER											
470.60	473.40		Po	2.00	AL	BD											
473.40	494.80		Py	8.00	SUB	BD		Po	2.00	SS	BD						
494.80	503.15		Po	0.10	DI	PER		Py	0.10	DI	PER						
503.15	518.80		Py	5.00	SUB	PER		Po	2.00	SS	BD		Cp	0.10	DI	PER	

From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
518.80	527.00		Py	0.10	DI	PER		Po	0.10	DI	PER						
527.00	531.50		Py	7.00	SUB	BD		Po	2.00	SS	BD						
531.50	532.45		Po	0.50	DI	PER											
532.45	552.15		Py	3.00	SUB	PER		Po	3.00	SS	BD						
552.15	565.15		Po	0.10	DI	PER											
565.15	569.25		Po	6.00	SS	BD		Py	3.00	SUB	BD						
569.25	572.00		Po	2.00	AL	VN											
572.00	577.90		Po	0.50	DI	PER											
577.90	588.40		Py	4.00	SUB	BD		Po	0.50	DI	BD						
588.40	596.90		Po	0.50	DI	PER		Po	0.50	AL	VN						



Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
24.90	29.80	Ank	2	VN							
29.80	53.00	Ank	3	VN	Chl	3	VN				
53.00	54.00	Sil	5	PEN	Chl	3	PEN	Ank	3	PEN	
54.00	61.25	Ank	3	VN	Chl	2	VN				
61.25	67.30	CC	5	PEN							
67.30	82.30	Ank	1	VN							
82.30	83.30	CC	4	PEN							
83.30	98.80	Ank	1	VN							
98.80	99.60	CC	4	PEN							
99.60	110.20	Ank	1	VN							
110.20	118.70	CC	5	PEN							
118.70	122.00	Ank	1	VN	Chl	2	PEN	Chl	1	VN	
122.00	124.75	Ank	4	VN	Chl	3	VN	Chl	2	PEN	
124.75	125.90	NO ALT									
125.90	132.00	Ank	4	VN	Chl	3	VN	Ank	2	PEN	
132.00	156.00	Ank	1	VN	Chl	1	VN				
156.00	159.50	Ank	4	VN	Chl	2	VN				
159.50	189.00	Ank	1	VN	Chl	1	VN				
189.00	192.50	Ank	4	VN	Chl	2	VN				
192.50	202.10	CC	5	PEN	CC	4	VN				
202.10	235.25	Ank	1	VN							
235.25	251.00	Sil	2	PEN	Chl	3	PEN	Chl	3	VN	
251.00	304.00	CC	2	VN							
304.00	304.70	CC	3	VN	Chl	4	VN				
304.70	410.35	CC	4	VN							
410.35	415.00	CC	3	PEN	CC	3	VN	Chl	3	VN	
415.00	430.90	Ank	2	VN	Chl	2	VN				
430.90	434.15	NO ALT									
434.15	438.20	Sil	4	PEN	Ank	3	VN	Chl	2	VN	
438.20	439.75	NO ALT									
439.75	452.85	Ank	2	VN							
452.85	457.50	Ank	4	VN	Chl	2	VN				
457.50	463.10	Ank	5	PEN	Ank	4	VN				

From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
463.10	464.20	Sil	2	DI	Ank	1	VN	Chl	1	VN	
464.20	469.50	Ank	5	VN	Chl	3	VN				
469.50	470.60	Ank	3	PEN	Ank	5	VN				
470.60	473.40	Ser	4	PEN	Ank	4	PEN	Ank	2		
473.40	527.00	Ank	1	VN							
527.00	569.25	NO ALT									
569.25	572.00	Ank	3	VN	Chl	1	VN				

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
9.00	24.90	1.00		I1N	UNK	Veinlet <5cm	QZ	100.00							80.00					
24.90	29.80	4.00		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	5.00					50.00	Po	2.00			
29.80	40.00	5.00		I1N	UNK	Veinlet <5cm	QZ	85.00	AK	10.00	CL	5.00			50.00	Po	0.10			
40.00	42.00	25.00		I1N	UNK	Vein >5cm	QZ	85.00	AK	10.00	CL	5.00			30.00	Po	0.10			
42.00	43.00	5.00		I1N	UNK	Veinlet <5cm	QZ	94.00	AK	5.00	CL	1.00			80.00	Po	0.10			
43.00	58.80	4.00		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	5.00	CL	0.10			80.00	Po	0.10			
58.80	61.25	3.00		I1N	UNK	Veinlet <5cm	QZ	80.00	AK	20.00					85.00					
61.25	67.30	1.00		I1N	UNK	Veinlet <5cm	QZ	80.00	AK	20.00					85.00					
67.30	110.20	3.00		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	5.00					85.00					
110.20	118.70	0.10		I1N	UNK	Veinlet <5cm	QZ	50.00	AK	50.00					60.00					
118.70	122.00	0.10		I1N	UNK	Veinlet <5cm	QZ	97.00	AK	2.00	CL	1.00				Po	0.10			
122.00	124.75	7.00		I1N	UNK	Vein >5cm	QZ	85.00	AK	10.00	CL	5.00				Po	2.00			
124.75	132.00	5.00		I1N	UNK	Vein >5cm	QZ	70.00	AK	20.00	CL	10.00				Po	4.00			
132.00	156.00	1.00		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	4.00	CL	1.00				Po	0.10			
156.00	159.50	7.00		I1N	UNK	Vein >5cm	QZ	85.00	AK	20.00	CL	5.00				Po	2.00	70.00		
159.50	189.00	1.00		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	4.00	CL	1.00				Po	0.10			
189.00	192.50	8.00		I1N	UNK	Vein >5cm	QZ	75.00	AK	15.00	CL	10.00			90.00	Po	2.00			90 and 10
192.50	202.10	2.00		I1N	UNK	Veinlet <5cm	QZ	20.00	CC	80.00					85.00					
202.10	205.00	3.00		I1N	UNK	Veinlet <5cm	QZ	84.00	AK	1.00	CL	15.00				Po	0.10			
205.00	212.10	5.00		I1N	UNK	Vein >5cm	QZ	80.00	CL	15.00	AK	2.00			70.00	Po	0.10			
212.10	235.00	2.00		I1N	UNK	Veinlet <5cm	QZ	90.00	CL	8.00	AK	2.00			80.00	Po	0.10			
235.00	251.00	4.00		I1N	UNK	Veinlet <5cm	QZ	75.00	CL	20.00	AK	5.00			82.00	Po	0.10			
251.00	304.00	0.10		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00										
304.00	304.70	90.00		I1N	UNK	Vein >5cm	QZ	30.00	CL	50.00	CC	20.00			10.00	Po	0.10			

From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments	
304.70	410.35	0.10		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00											
410.35	415.00	7.00		I1N	UNK	Vein >5cm	QZ	95.00	CL	5.00					60.00	Po	0.10				
415.00	429.00	2.00		I1N	UNK	Veinlet <5cm	QZ	95.00	CL	5.00					60.00	Po	0.10				
429.00	430.00	10.00		I1N	UNK	Vein >5cm	QZ	80.00	AK	15.00	CL	5.00			80.00	Po	1.00				
434.15	438.20	4.00		I1N	UNK	Vein >5cm	QZ	80.00	AK	15.00		5.00			80.00	Po	2.00	Py	0.10		
438.20	439.75	0.10		I1N	UNK	Veinlet <5cm	QZ	85.00	AK	15.00											
439.75	445.10	10.00		I1N	UNK	Vein >5cm	QZ	98.00	AK	1.00	CL	1.00			40.00	Po	0.10				
445.10	448.00	0.10		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00					45.00	Po	0.10				
448.00	452.85	10.00		I1N	UNK	Vein >5cm	QZ	98.00	AK	1.00	CL	1.00			40.00	Po	1.00				
452.85	457.70	6.00		I1N	UNK	Vein >5cm	QZ	80.00	AK	16.00	CL	4.00			65.00	Po	1.00				
457.70	463.10	5.00		I1N	UNK	Veinlet <5cm	QZ	35.00	AK	65.00					60.00						
463.10	464.20	2.00		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	1.00	CL	1.00			60.00	Po	0.10				
464.20	469.50	12.00		I1N	UNK	Vein >5cm	QZ	62.00	AK	30.00	CL	8.00			60.00	Po	2.00	Cp	0.10		
469.50	470.60	0.10		I1N	UNK	Veinlet <5cm	QZ	20.00	AK	80.00					70.00						
470.60	473.40	8.00		I1N	UNK	Veinlet <5cm	QZ	80.00	AK	15.00	CL	5.00			60.00	Po	0.10				
473.40	552.15	0.50		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00					55.00	Po	0.10				
552.15	565.15	1.00		I1N	UNK	Veinlet <5cm	QZ	98.00	AK	2.00					55.00	Po					
569.25	572.00	50.00		I1N	UNK	Vein >5cm	QZ	70.00	AB	25.00	CL	5.00			70.00	Po	1.00				
572.00	577.90	0.50		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00					70.00						
577.90	585.40	0.50		I1N	UNK	Veinlet <5cm	QZ	95.00	AK	5.00					70.00						
585.40	588.00	2.00		I1N	UNK	Vein >5cm	QZ	99.00	AK	1.00					75.00	Po	0.10				
588.00	604.00	0.50		I1N	UNK	Veinlet <5cm	QZ	99.00	AK	1.00											

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
166.00	167.00	FLD	5		Z fold (looking north)
175.00	176.00	FLD	5		Z fold (looking north)
176.00	177.00	FLD	5		M fold (looking north)
185.00	186.00	FLD	5		M fold (looking north)
186.00	187.00	FLD	5		M fold (looking north)

Oriented Structure Data													
Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
13.50	S0		55.00										
17.90	S0		55.00										
21.90	S0		65.00										
24.90	CNT		80.00										
28.90	S0		65.00										
31.70	VN		25.00										
36.55	S0		80.00										
37.50	S0		80.00										
43.40	S0		90.00										
47.10	S0		75.00										
49.20	VN		40.00	5.00	270.83	-63.90	-76.02	4.78	0.00	94.78			
51.50	VN		55.00										
53.10	S0		60.00	320.00	271.62	-63.82	-52.54	337.73	0.00	67.73			
53.85	VN		55.00	335.00	271.55	-63.82	-59.62	345.23	0.00	75.23			
58.75	VN		30.00										
58.80	CNT		75.00										
61.25	CNT		73.00	330.00	271.42	-63.78	-41.75	348.73	0.00	78.73			
61.70	S0		74.00	338.00	271.43	-63.77	-41.47	352.46	0.00	82.46			
65.60	S0		65.00										
68.70	VN		62.00										
70.40	VN		54.00	242.00	270.73	-63.43	-32.11	283.23	0.00	13.23			
72.90	VN		53.00	218.00	270.77	-63.33	-22.10	260.76	0.00	350.76			
77.70	S0		74.00										
82.15	S2		44.00	210.00	270.35	-62.55	-25.36	237.46	0.00	327.46			
83.60	S0		81.00	0.00	270.18	-62.48	-36.52	0.18	0.00	90.18			
86.90	S0		78.00	0.00	268.40	-62.80	-39.20	358.40	0.00	88.40			
90.90	S0		68.00	300.00	269.42	-62.43	-42.67	330.82	0.00	60.82			
94.10	AxialPlane		50.00	60.00	269.33	-62.07	-58.25	40.23	0.00	130.23			
95.50	VN		71.00	51.00	269.17	-62.03	-42.35	21.23	0.00	111.23			
109.00			75.00	0.00	269.38	-61.60	-43.40	359.38	0.00	89.38	5.00	FAXIS	
109.00	AxialPlane		75.00	0.00	269.38	-61.60	-43.40	359.38	0.00	89.38			
110.20	CNT		65.00	0.00	269.33	-61.60	-53.40	359.33	0.00	89.33			
110.40	S0		72.00	28.00	269.33	-61.60	-45.02	11.17	0.00	101.17			
115.60	VN		34.00										

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
118.70	CNT		72.00										
121.00	CNT		82.00										
124.00	VN		88.00										
124.75	CNT		80.00										
126.20	VN		65.00										
126.90	S0		68.00	292.00	269.27	-61.40	-41.68	327.78	0.00	57.78			
127.20	S0		76.00	332.00	269.25	-61.40	-41.44	349.37	0.00	79.37			
127.60	VN		34.00	340.00	269.23	-61.40	-83.22	342.64	0.00	72.64			
130.95	VN		75.00	168.00	268.95	-61.40	-14.24	11.58	0.00	101.58			
137.00	S0		37.00	277.00	268.43	-61.27	-61.25	293.73	0.00	23.73			
141.50	VN		72.00	0.00	263.52	-62.25	-45.75	353.52	0.00	83.52			
145.25	VN		68.00	294.00	258.57	-63.23	-40.60	316.84	0.00	46.84			
148.00	VN		61.00										
150.45	VN		56.00										
153.00	VN		54.00										
154.90	S0		50.00	225.00	268.00	-61.10	-27.09	264.51	0.00	354.51			
155.90	VN		51.00	250.00	268.00	-61.10	-38.34	285.56	0.00	15.56			
158.30	VN		68.00	290.00	267.92	-61.10	-41.43	325.78	0.00	55.78			
159.20	S0		55.00	280.00	267.97	-61.10	-48.01	308.50	0.00	38.50			
159.75	S0		55.00	158.00	268.00	-61.10	-13.06	105.97	0.00	195.97			
162.90	VN		20.00	180.00	268.17	-61.17	-41.17	178.17	0.00	268.17			
165.50	AxialPlane		65.00										
172.10	S0		60.00	290.00	267.50	-61.05	-47.54	317.94	0.00	47.94			
174.50	S0		60.00	265.00	267.47	-60.97	-38.89	304.97	0.00	34.97			
174.70			62.00	272.00	267.45	-60.95	-40.19	310.81	0.00	40.81	88.00	FAXIS	
174.70	AxialPlane		65.00	272.00	267.45	-60.95	-38.27	314.45	0.00	44.45			
175.30	VN		62.00	262.00	267.43	-60.93	-36.54	306.09	0.00	36.09			
176.60	VN		32.00	252.00	272.00	-64.30	-53.76	271.55	0.00	1.55			
179.15	VN		75.00	270.00	267.23	-60.80	-32.52	328.46	0.00	58.46			
180.95	S0		60.00	285.00	267.13	-60.80	-46.14	315.08	0.00	45.08			
185.00			75.00	295.00	267.00	-60.70	-37.92	334.56	0.00	64.56	100.00	FAXIS	
185.00	AxialPlane		75.00	295.00	267.00	-60.70	-37.92	334.56	0.00	64.56			
189.30	VN		45.00	245.00	274.27	-58.73	-40.58	284.14	0.00	14.14			
196.90	S0		48.00	235.00	266.53	-60.57	-33.30	269.76	0.00	359.76			
202.10	CNT		88.00	268.00	266.35	-60.50	-29.49	352.29	0.00	82.29			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
202.85	S0		78.00	310.00	266.37	-60.50	-38.23	341.45	0.00	71.45			
212.80	S0		75.00										
217.70	S2		45.00	65.00	265.93	-60.40	-62.15	42.39	0.00	132.39			
218.65	S2		40.00	35.00	265.93	-60.40	-75.58	22.91	0.00	112.91			
218.70	S0		70.00	58.00	265.93	-60.40	-43.32	20.94	0.00	110.94			
219.10	S0		65.00	55.00	265.97	-60.40	-48.06	23.70	0.00	113.70			
220.15	VN		65.00	260.00	266.03	-60.40	-34.48	308.72	0.00	38.72			
223.10	S0		80.00	260.00	266.18	-60.32	-29.48	335.85	0.00	65.85			
226.85	S2		45.00	358.00	266.33	-60.30	-74.69	354.87	0.00	84.87			
226.95	VN		78.00	13.00	266.33	-60.30	-41.47	0.38	0.00	90.38			
227.70	S0		80.00	290.00	266.37	-60.30	-34.31	339.54	0.00	69.54			
233.30	S0		60.00	50.00	266.42	-60.28	-53.64	24.82	0.00	114.82			
235.25	VN		48.00	342.00	266.53	-60.23	-70.78	343.88	0.00	73.88			
236.04	S2		45.00	0.00	266.58	-60.20	-74.80	356.58	0.00	86.58			
236.30	VN		50.00	308.00	266.58	-60.20	-62.09	321.61	0.00	51.61			
236.40	S0		50.00	278.00	266.58	-60.20	-51.66	302.34	0.00	32.34			
241.10	S0		85.00										
244.60	VN		78.00	6.00	266.35	-60.20	-41.75	358.22	0.00	88.22			
249.10	VN		75.00										
251.30	VN		71.00	232.00	266.53	-60.18	-23.07	315.64	0.00	45.64			
253.55	S1		72.00	326.00	266.17	-60.10	-45.83	342.23	0.00	72.23			
256.55	VN		48.00	262.00	266.03	-60.10	-46.32	289.65	0.00	19.65			
259.70	VN		52.00	348.00	266.25	-60.10	-67.48	348.29	0.00	78.29			
262.55	S1		45.00	295.00	258.27	-61.90	-61.12	301.22	0.00	31.22			
266.80	VN		38.00	356.00	266.23	-60.10	-81.84	353.05	0.00	83.05			
271.30	S1		72.00	296.00	266.15	-60.10	-40.80	331.00	0.00	61.00			
275.10	VN		49.00	326.00	266.10	-60.03	-67.53	332.71	0.00	62.71			
277.10	S1		64.00	286.00	266.05	-60.05	-44.07	318.76	0.00	48.76			
281.75	S1		69.00	292.00	265.77	-60.03	-42.12	326.07	0.00	56.07			
287.85	VN		60.00	308.00	271.80	-64.30	-49.69	330.69	0.00	60.69			
289.90	S1		66.00	252.00	265.60	-60.05	-31.32	307.51	0.00	37.51			
296.10	S1		52.00	214.00	265.30	-59.98	-20.34	257.40	0.00	347.40			
298.70	S1		69.00	302.00	265.33	-59.88	-44.58	329.68	0.00	59.68			
301.60	S1		67.00	272.00	265.43	-59.80	-37.93	316.00	0.00	46.00			
304.45	VN		32.00	350.00	265.17	-59.80	-87.83	346.69	0.00	76.69			



Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
307.15	S1		76.00	282.00	265.05	-59.80	-35.58	331.05	0.00	61.05			
311.40	S1		60.00	255.00	264.87	-59.78	-35.56	298.72	0.00	28.72			
316.40	S1		50.00	285.00	264.90	-59.70	-54.73	305.39	0.00	35.39			
322.30	VN		35.00	310.00	264.80	-59.70	-76.73	314.65	0.00	44.65			
325.00	S1		50.00	292.00	264.70	-59.70	-57.32	309.62	0.00	39.62			
333.40	S1		45.00	270.00	264.62	-59.70	-52.37	291.39	0.00	21.39			
337.95	S1		45.00	288.00	263.93	-59.73	-59.96	302.96	0.00	32.96			
349.50	S1		55.00	290.00	262.93	-59.80	-52.46	310.11	0.00	40.11			
357.15	S1		57.00	252.00	262.40	-59.80	-35.95	290.49	0.00	20.49			
362.25	S1		66.00	298.00	261.75	-59.85	-46.05	321.83	0.00	51.83			
364.65	S1		55.00	314.00	261.55	-59.85	-59.46	322.92	0.00	52.92			
368.80	VN		34.00	244.00	261.37	-59.90	-48.24	258.76	0.00	348.76			
369.80	S1		59.00	268.00	261.30	-59.90	-41.36	300.13	0.00	30.13			
370.75	VN		75.00	236.00	261.23	-59.90	-24.73	320.38	0.00	50.38			
373.20	S1		50.00	242.00	261.20	-59.90	-35.50	273.44	0.00	3.44			
376.90	S1		60.00	270.00	271.60	-64.20	-38.77	308.61	0.00	38.61			
389.90	S1		60.00	270.00	261.30	-59.95	-41.44	302.24	0.00	32.24			
390.40	S1		60.00	270.00	261.33	-59.93	-41.45	302.28	0.00	32.28			
395.00	S1		65.00	270.00	262.25	-59.90	-38.36	309.33	0.00	39.33			
400.20	S1		55.00	290.00	256.70	-59.80	-52.46	303.88	0.00	33.88			
403.20	S1		60.00	280.00	260.53	-59.88	-45.13	306.52	0.00	36.52			
412.60	S0		60.00	110.00	261.77	-59.70	-33.49	50.15	0.00	140.15			
423.30	VN		60.00										
424.50	S0		65.00										
430.00	VN		65.00	255.00	261.00	-60.10	-32.84	302.17	0.00	32.17			
430.50	S0		50.00	300.00	261.00	-60.10	-59.74	310.87	0.00	40.87			
430.60	VN		65.00	240.00	261.00	-60.10	-27.00	297.27	0.00	27.27			
430.88	CNT		70.00	292.00	261.00	-60.10	-41.34	322.31	0.00	52.31			
431.10	AxialPlane		55.00	295.00	260.68	-60.10	-53.89	310.64	0.00	40.64			
432.30	S0		38.00	302.00	260.05	-60.10	-71.00	305.08	0.00	35.08			
433.10	VN		55.00	278.00	259.42	-60.10	-47.91	299.47	0.00	29.47			
434.13	CNT		60.00										
436.30	S0		60.00	308.00	258.97	-60.12	-53.31	319.54	0.00	49.54			
437.70	S0		70.00	220.00	259.47	-60.17	-19.00	307.00	0.00	37.00			
438.80	S0		70.00	255.00	259.72	-60.20	-30.75	309.46	0.00	39.46			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
440.20	VN		45.00	225.00	259.47	-60.20	-30.45	250.10	0.00	340.10			
442.25	VN		40.00	60.00	260.00	-60.25	-68.41	35.52	0.00	125.52			
443.70	S1		50.00	238.00	260.32	-60.30	-33.47	269.04	0.00	359.04			
447.70	S0		40.00	222.00	260.80	-60.37	-32.84	241.75	0.00	331.75			
452.90	S0		30.00	192.00	261.67	-60.40	-31.44	191.86	0.00	281.86			
454.40	AxialPlane		40.00	348.00	261.57	-60.40	-79.12	342.23	0.00	72.23			
454.70			45.00	3.00	261.60	-60.40	-74.57	353.80	0.00	83.80	95.00	FAXIS	
454.70	AxialPlane		45.00	3.00	261.60	-60.40	-74.57	353.80	0.00	83.80			
454.90	S0		50.00	180.00	261.60	-60.40	-10.40	171.60	0.00	261.60			
455.90	VN		60.00	340.00	261.67	-60.40	-58.61	340.11	0.00	70.11			
457.50	CNT		55.00	255.00	261.65	-60.40	-38.23	288.09	0.00	18.09			
458.10	S0		55.00	340.00	261.62	-60.40	-63.51	338.96	0.00	68.96			
458.20	VN		55.00	340.00	261.62	-60.40	-63.51	338.96	0.00	68.96			
458.35	CNT		65.00	260.00	261.62	-60.40	-34.48	304.30	0.00	34.30			
462.70	S1		55.00	300.00	261.57	-60.40	-55.21	314.35	0.00	44.35			
464.20	CNT		55.00	268.00	261.53	-60.40	-43.77	295.57	0.00	25.57			
465.90	S0		65.00	250.00	261.58	-60.40	-30.75	300.62	0.00	30.62			
466.80	VN		50.00	175.00	261.53	-60.43	-10.81	154.15	0.00	244.15			
468.40	VN		37.00	285.00	261.43	-60.48	-65.05	293.13	0.00	23.13			
468.50	VN		37.00	170.00	261.43	-60.48	-24.33	151.76	0.00	241.76			
469.20	S0		62.00	345.00	261.43	-60.50	-56.96	343.10	0.00	73.10			
469.50	CNT		70.00	342.00	261.43	-60.50	-48.88	343.37	0.00	73.37			
472.60	S0		45.00	295.00	261.37	-60.43	-62.12	304.90	0.00	34.90			
473.40	CNT		80.00	100.00	261.33	-60.42	-29.39	11.73	0.00	101.73			
473.90	S0		50.00	225.00	261.33	-60.40	-27.05	259.21	0.00	349.21			
475.65			55.00	0.00	261.47	-60.40	-64.60	351.47	0.00	81.47	100.00	FAXIS	
475.65	AxialPlane		55.00	0.00	261.47	-60.40	-64.60	351.47	0.00	81.47			
476.20			62.00	192.00	261.48	-60.40	-5.99	282.16	0.00	12.16	130.00	FAXIS	
476.20	AxialPlane		62.00	192.00	261.48	-60.40	-5.99	282.16	0.00	12.16			
495.80	S0		70.00	250.00	261.32	-60.50	-28.90	309.63	0.00	39.63			
498.30			72.00	200.00	262.30	-60.42	-13.97	326.33	0.00	56.33	95.00	FAXIS	
498.30	AxialPlane		72.00	200.00	262.30	-60.42	-13.97	326.33	0.00	56.33			
508.95	S0		30.00	195.00	262.30	-60.30	-31.92	197.38	0.00	287.38			
510.60	S0		37.00	180.00	262.30	-60.30	-23.30	172.30	0.00	262.30			
519.20	VN		35.00	230.00	262.30	-60.30	-40.61	246.87	0.00	336.87			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
520.15			72.00	200.00	262.30	-60.30	-14.07	326.54	0.00	56.54	108.00	FAXIS	
520.15	AxialPlane		72.00	200.00	262.30	-60.30	-14.07	326.54	0.00	56.54			
520.40	S0		32.00	180.00	262.30	-60.30	-28.30	172.30	0.00	262.30			
522.25	S0		28.00	195.00	262.30	-60.30	-33.86	196.51	0.00	286.51			
522.75	VN		20.00	185.00	262.30	-60.30	-40.46	179.55	0.00	269.55			
523.40	S0		10.00	170.00	262.30	-60.30	-50.85	159.56	0.00	249.56			
523.60	S2		20.00	202.00	262.30	-60.30	-43.22	203.24	0.00	293.24			
525.30	S0		42.00	190.00	262.30	-60.30	-19.29	195.29	0.00	285.29			
530.70			45.00	260.00	262.30	-60.30	-47.54	281.59	0.00	11.59	110.00	FAXIS	D1
530.70	AxialPlane		45.00	260.00	262.30	-60.30	-47.54	281.59	0.00	11.59			D1
530.80	AxialPlane		60.00	260.00	262.30	-60.30	-37.32	297.99	0.00	27.99			
531.50	S0		65.00	242.00	262.30	-60.30	-27.68	298.86	0.00	28.86			
534.80			85.00	285.00	262.30	-60.30	-31.33	342.98	0.00	72.98	120.00	FAXIS	D2
534.80	AxialPlane		85.00	285.00	262.30	-60.30	-31.33	342.98	0.00	72.98			D2
538.15	VN		30.00	208.00	262.30	-60.30	-35.59	216.61	0.00	306.61			
543.30	S0		65.00	230.00	262.30	-60.30	-22.80	295.65	0.00	25.65			
543.40			55.00	20.00	262.30	-60.30	-63.61	4.95	0.00	94.95	80.00	FAXIS	
543.40	AxialPlane		55.00	20.00	262.30	-60.30	-63.61	4.95	0.00	94.95			
544.85	S0		68.00	252.00	262.30	-60.30	-30.37	307.50	0.00	37.50			
550.00	S0		70.00	300.00	262.30	-60.30	-42.99	326.55	0.00	56.55			
565.15	CNT		75.00	260.00	262.30	-60.30	-30.54	322.19	0.00	52.19			
568.75	S0		65.00	350.00	262.30	-60.30	-54.48	347.13	0.00	77.13			
570.90	VN		25.00	30.00	262.30	-60.30	-88.75	199.25	0.00	289.25			
571.80	VN		70.00										
577.90	CNT		80.00										
582.40	S0		60.00	310.00	262.30	-60.30	-53.63	323.90	0.00	53.90			
582.40	S3		65.00	80.00	262.30	-60.30	-41.33	31.36	0.00	121.36			
582.50	S2		75.00	355.00	262.30	-60.30	-44.66	350.46	0.00	80.46			
583.25	S0		70.00	320.00	262.30	-60.30	-46.65	334.70	0.00	64.70			
585.40	CNT		68.00	300.00	262.30	-60.30	-44.55	324.76	0.00	54.76			
588.00	S0		75.00	310.00	262.30	-60.30	-40.83	334.65	0.00	64.65			
590.85	VN		75.00	245.00	262.30	-60.30	-26.72	320.85	0.00	50.85			
595.10	S0		75.00	245.00	262.30	-60.30	-26.72	320.85	0.00	50.85			

Sample Data - ASSAY

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558312	9.00	11.00	2.00	2	VO18233913 - Finalized	13/10/2018	0.001	0.260	21.10	99.40	8.12	568.0	0.266	152.00	10.10	107.00	373.00
558313	11.00	13.00	2.00	2	VO18233913 - Finalized	13/10/2018	0.001	0.230	11.00	114.00	8.31	97.0	0.331	158.00	10.70	108.00	503.00
558314	13.00	15.00	2.00	2	VO18233913 - Finalized	13/10/2018	0.001	0.240	6.50	131.50	7.89	201.0	0.323	158.00	10.60	106.50	616.00
558315	15.00	17.00	2.00	2	VO18233913 - Finalized	13/10/2018	0.005	0.470	45.90	191.50	13.20	140.0	0.735	203.00	14.00	161.00	1 210.00
558317	17.00	19.00	2.00	2	VO18233913 - Finalized	13/10/2018	0.006	0.440	32.40	243.00	14.05	515.0	0.498	146.00	11.95	165.00	993.00
558318	19.00	21.00	2.00	2	VO18233913 - Finalized	13/10/2018	0.051	0.880	173.00	149.00	20.50	131.0	0.858	181.00	19.10	148.00	807.00
558319	21.00	23.00	2.00	2	VO18233913 - Finalized	13/10/2018	0.033	0.650	113.50	207.00	17.75	313.0	0.610	159.00	17.05	140.00	631.00
558320	23.00	24.90	1.90	2	VO18233913 - Finalized	13/10/2018	0.037	0.660	135.50	66.00	14.55	100.0	0.845	169.00	22.60	104.00	725.00
555712	24.90	26.00	1.10	2	VO18233838 - Finalized	02/10/2018	0.001	0.060	18.70	24.30	11.90	2,570.0	0.007	74.00	3.75	12.80	23.00
555713	26.00	27.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.006	0.040	31.00	12.70	16.60	3,330.0	0.011	41.00	1.98	11.60	17.00
555714	27.00	28.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.001	0.010	4.50	2.00	21.40	5,210.0	0.006	13.00	0.83	4.90	16.00
555715	28.00	29.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.018	0.040	61.50	5.30	20.90	5,250.0	0.007	14.00	1.96	8.80	17.00
555716	29.00	29.80	0.80	2	VO18233838 - Finalized	02/10/2018	0.004	0.050	1.10	6.70	18.00	4,060.0	0.003	7.00	0.78	5.90	10.00
555717	29.80	31.00	1.20	2	VO18233838 - Finalized	02/10/2018	0.001	0.010	2.50	2.00	19.85	5,140.0	0.003	19.00	1.59	2.60	8.00
555718	31.00	32.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.001	0.005	0.60	1.20	19.15	5,160.0	0.005	8.00	0.84	1.40	9.00
555720	32.00	33.00	1.00	2	VO18233838 - Finalized	02/10/2018	0.001	0.040	7.80	4.20	24.00	6,720.0	0.003	37.00	0.72	6.50	11.00
555721	33.00	34.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.001	0.110	7.00	2.70	24.20	8,010.0	0.003	25.00	0.39	3.60	8.00
555722	34.00	35.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.001	0.200	21.10	2.20	24.90	11,100.0	0.003	13.00	0.24	3.30	9.00
555723	35.00	36.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.001	0.140	8.40	4.30	24.10	11,450.0	0.005	22.00	0.36	6.20	10.00
555724	36.00	37.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.001	0.080	4.30	2.50	23.30	10,900.0	0.003	19.00	0.36	3.20	9.00
555725	37.00	38.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.001	0.010	10.80	2.10	19.80	8,820.0	0.007	13.00	0.34	3.20	7.00
555727	38.00	39.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.001	0.020	15.90	2.40	21.60	9,440.0	0.008	15.00	0.28	2.80	7.00
555728	39.00	40.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.052	0.040	13.90	2.10	19.70	7,530.0	0.011	14.00	0.17	2.30	15.00
555729	40.00	41.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.060	0.010	0.30	1.00	24.60	8,260.0	0.007	21.00	0.18	1.30	25.00
555730	41.00	42.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.021	0.040	1.20	3.40	18.60	8,530.0	0.013	23.00	0.40	4.70	14.00
555731	42.00	43.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.049	0.020	18.40	3.90	20.00	10,650.0	0.003	24.00	0.48	6.20	9.00
555732	43.00	44.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.001	0.150	11.30	4.70	17.25	10,100.0	0.003	21.00	0.39	6.70	9.00
555733	44.00	45.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.001	0.030	43.60	8.80	21.20	13,700.0	0.003	49.00	0.72	15.80	17.00
555734	45.00	46.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.001	0.040	46.70	11.70	16.50	11,550.0	0.005	36.00	0.85	12.00	15.00
555735	46.00	47.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.001	0.050	3.50	9.60	20.60	14,750.0	0.006	60.00	0.69	15.50	21.00
555736	47.00	48.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.001	0.060	2.30	14.20	18.40	12,400.0	0.003	29.00	0.24	7.70	10.00
555737	48.00	49.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.001	0.040	22.50	8.90	23.40	15,600.0	0.003	51.00	0.34	12.80	16.00
555738	49.00	50.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.001	0.030	21.20	6.60	21.30	14,050.0	0.003	53.00	0.26	9.30	13.00
555740	50.00	51.00	1.00	2	VO18233839 - Finalized	30/09/2018	0.001	0.030	10.10	8.80	21.50	14,600.0	0.005	47.00	0.31	10.10	11.00
555741	51.00	52.00	1.00	2	VO18233841 - Finalized	02/10/2018	0.001	0.040	5.90	6.40	20.30	14,250.0	0.008	51.00	0.27	8.00	10.00
555742	52.00	53.00	1.00	2	VO18233841 - Finalized	02/10/2018	0.001	0.030	8.50	11.20	20.40	17,450.0	0.017	102.00	0.62	16.60	16.00
555743	53.00	54.00	1.00	2	VO18233841 - Finalized	02/10/2018	0.001	0.010	0.80	4.20	13.65	9,330.0	0.014	29.00	0.23	5.20	8.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
555744	54.00	55.00	1.00	2	VO18233841 - Finalized	02/10/2018	0.001	0.020	71.40	7.80	22.20	16,350.0	0.051	42.00	0.32	9.60	10.00
555745	55.00	56.00	1.00	2	VO18233841 - Finalized	02/10/2018	0.001	0.020	1.50	8.10	22.50	16,300.0	0.070	60.00	0.32	10.20	12.00
555747	56.00	57.00	1.00	2	VO18233841 - Finalized	02/10/2018	0.001	0.030	0.50	10.10	21.50	18,150.0	0.071	121.00	0.58	19.50	22.00
555748	57.00	58.00	1.00	2	VO18233841 - Finalized	02/10/2018	0.001	0.030	0.70	3.80	16.95	15,700.0	0.025	48.00	0.57	8.30	14.00
555749	58.00	58.80	0.80	2	VO18233841 - Finalized	02/10/2018	0.006	0.140	1.00	31.40	19.55	9,570.0	0.187	155.00	3.60	40.90	62.00
558321	58.80	60.00	1.20	2	VO18233915 - Finalized	12/10/2018	0.005	0.220	0.50	41.50	14.35	3,620.0	0.041	202.00	4.73	53.50	102.00
558322	60.00	61.25	1.25	2	VO18233915 - Finalized	12/10/2018	0.001	0.150	0.50	38.80	10.45	1,360.0	0.017	208.00	2.48	53.40	126.00
558323	61.25	63.00	1.75	2	VO18233915 - Finalized	12/10/2018	0.001	0.100	10.70	20.60	7.83	2,750.0	0.013	205.00	1.39	55.60	108.00
558324	63.00	65.00	2.00	2	VO18233915 - Finalized	12/10/2018	0.001	0.020	6.60	59.00	8.79	2,290.0	0.003	140.00	1.42	45.90	139.00
558325	65.00	67.00	2.00	2	VO18233915 - Finalized	12/10/2018	0.001	0.040	6.20	94.40	8.69	1,960.0	0.012	184.00	1.35	47.80	49.00
558326	67.00	67.30	0.30	2	VO18233915 - Finalized	12/10/2018	0.001	0.040	30.80	95.10	12.15	822.0	0.011	430.00	0.24	120.00	97.00
558327	67.30	69.00	1.70	2	VO18233915 - Finalized	12/10/2018	0.001	0.060	37.70	107.00	9.05	1,430.0	0.012	371.00	0.32	95.00	86.00
558328	69.00	71.00	2.00	2	VO18233915 - Finalized	12/10/2018	0.001	0.090	33.10	136.00	8.58	1,370.0	0.014	310.00	0.21	143.00	92.00
558330	71.00	73.00	2.00	2	VO18233915 - Finalized	12/10/2018	0.001	0.130	39.20	169.00	9.05	1,420.0	0.018	334.00	0.25	138.50	98.00
558331	73.00	74.40	1.40	2	VO18233915 - Finalized	12/10/2018	0.001	0.110	32.70	237.00	9.86	2,170.0	0.018	229.00	0.50	87.50	81.00
558332	74.40	76.00	1.60	2	VO18233915 - Finalized	12/10/2018	0.001	0.180	7.10	55.50	6.83	1,820.0	0.014	82.00	0.97	35.00	56.00
558333	76.00	78.00	2.00	2	VO18233915 - Finalized	12/10/2018	0.001	0.080	7.70	47.00	6.25	1,620.0	0.006	89.00	0.86	33.80	85.00
558334	78.00	80.00	2.00	2	VO18233915 - Finalized	12/10/2018	0.001	0.160	3.20	32.80	5.02	708.0	0.006	66.00	0.23	28.00	92.00
558335	80.00	82.00	2.00	2	VO18233915 - Finalized	12/10/2018	0.001	0.100	1.00	56.80	6.62	882.0	0.007	79.00	0.35	29.30	75.00
558337	82.00	84.00	2.00	2	VO18233915 - Finalized	12/10/2018	0.001	0.210	40.80	115.50	8.35	1,640.0	0.011	187.00	0.46	71.30	119.00
558338	84.00	86.00	2.00	2	VO18233915 - Finalized	12/10/2018	0.006	0.340	0.90	72.80	6.92	260.0	0.009	126.00	1.87	44.80	103.00
558339	86.00	88.00	2.00	2	VO18233915 - Finalized	12/10/2018	0.004	0.350	0.90	92.50	6.88	294.0	0.012	126.00	1.87	43.50	104.00
558340	88.00	90.00	2.00	2	VO18233915 - Finalized	12/10/2018	0.001	0.180	5.40	49.10	4.76	392.0	0.012	109.00	1.43	31.60	81.00
558341	90.00	92.00	2.00	2	VO18233917 - Finalized	05/10/2018	0.001	0.180	4.80	43.20	4.20	353.0	0.009	83.00	1.93	30.30	84.00
558342	92.00	94.00	2.00	2	VO18233917 - Finalized	05/10/2018	0.002	0.450	1.10	57.00	4.10	103.0	0.032	109.00	6.08	50.70	92.00
558343	94.00	96.00	2.00	2	VO18233917 - Finalized	05/10/2018	0.001	0.190	17.50	63.80	4.92	709.0	0.028	164.00	3.71	77.70	98.00
558344	96.00	98.00	2.00	2	VO18233917 - Finalized	05/10/2018	0.001	0.210	2.60	38.90	3.31	376.0	0.028	113.00	4.07	38.30	93.00
558345	98.00	100.00	2.00	2	VO18233917 - Finalized	05/10/2018	0.001	0.140	28.40	71.80	5.58	1,280.0	0.020	210.00	2.34	77.90	116.00
558346	100.00	102.00	2.00	2	VO18233917 - Finalized	05/10/2018	0.001	0.190	4.50	44.60	3.68	358.0	0.014	123.00	3.10	44.70	79.00
558347	102.00	104.00	2.00	2	VO18233917 - Finalized	05/10/2018	0.001	0.190	2.00	56.70	6.43	311.0	0.010	100.00	1.70	34.30	95.00
558348	104.00	106.00	2.00	2	VO18233917 - Finalized	05/10/2018	0.001	0.090	0.20	32.00	5.49	389.0	0.003	75.00	0.33	32.30	79.00
558350	106.00	108.00	2.00	2	VO18233917 - Finalized	05/10/2018	0.001	0.090	4.20	29.10	5.08	287.0	0.003	79.00	0.32	34.20	74.00
558351	108.00	110.20	2.20	2	VO18233917 - Finalized	05/10/2018	0.006	0.160	5.30	45.40	5.51	378.0	0.037	171.00	2.49	43.00	211.00
558352	110.20	112.00	1.80	2	VO18233917 - Finalized	05/10/2018	0.001	0.090	17.90	119.50	9.15	1,480.0	0.010	285.00	1.61	91.50	106.00
558353	112.00	114.00	2.00	2	VO18233917 - Finalized	05/10/2018	0.001	0.120	1.00	169.00	8.92	1,440.0	0.018	321.00	0.35	121.00	106.00
558354	114.00	116.00	2.00	2	VO18233917 - Finalized	05/10/2018	0.001	0.070	5.80	153.50	9.19	1,510.0	0.023	308.00	0.26	193.00	97.00
558355	116.00	118.00	2.00	2	VO18233917 - Finalized	05/10/2018	0.016	0.070	4.40	155.00	9.16	1,450.0	0.024	329.00	0.26	111.00	97.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558357	118.00	120.00	2.00	2	VO18233917 - Finalized	05/10/2018	0.002	0.100	7.30	70.00	13.60	5,530.0	0.008	218.00	1.41	50.40	79.00
558358	120.00	121.00	1.00	2	VO18233917 - Finalized	05/10/2018	0.001	0.010	2.90	4.60	19.05	13,050.0	0.003	56.00	0.79	9.60	17.00
555750	121.00	122.00	1.00	2	VO18233841 - Finalized	02/10/2018	0.001	0.060	0.70	33.30	18.75	15,600.0	0.104	112.00	1.47	29.80	36.00
555751	122.00	123.00	1.00	2	VO18233841 - Finalized	02/10/2018	0.067	0.040	3.90	11.40	19.40	10,450.0	0.003	31.00	0.65	6.90	35.00
555752	123.00	124.00	1.00	2	VO18233841 - Finalized	02/10/2018	0.001	0.020	1.30	4.80	17.35	8,080.0	0.003	10.00	0.30	2.50	17.00
555753	124.00	124.75	0.75	2	VO18233841 - Finalized	02/10/2018	0.001	0.090	0.40	25.90	16.35	5,260.0	0.016	37.00	2.01	10.00	24.00
558359	124.75	125.90	1.15	2	VO18233917 - Finalized	05/10/2018	0.001	0.020	9.20	3.00	20.50	13,150.0	0.003	50.00	0.66	9.10	21.00
555754	125.90	127.00	1.10	2	VO18233841 - Finalized	02/10/2018	0.076	0.730	22.90	157.50	18.15	1,440.0	0.201	102.00	13.05	73.70	486.00
555755	127.00	128.00	1.00	2	VO18233841 - Finalized	02/10/2018	7.280	0.360	25.10	13.70	16.70	4,750.0	0.044	20.00	0.48	3.80	21.00
555756	128.00	129.00	1.00	2	VO18233841 - Finalized	02/10/2018	0.225	0.090	0.70	14.50	14.75	4,640.0	0.009	15.00	0.63	2.50	17.00
555757	129.00	130.00	1.00	2	VO18233841 - Finalized	02/10/2018	0.030	0.120	1.70	34.50	16.95	4,120.0	0.005	23.00	1.20	6.30	17.00
555758	130.00	131.00	1.00	2	VO18233841 - Finalized	02/10/2018	0.023	0.080	2.40	28.10	20.60	4,930.0	0.006	15.00	0.30	5.00	19.00
555760	131.00	132.00	1.00	2	VO18233841 - Finalized	02/10/2018	0.005	0.070	5.30	28.40	16.75	4,440.0	0.008	17.00	0.55	3.90	21.00
555761	132.00	133.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.008	0.060	20.60	30.00	24.60	7,000.0	0.005	28.00	0.47	6.70	10.00
555762	133.00	134.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.001	0.060	26.20	5.20	27.10	8,240.0	0.007	34.00	0.49	5.10	10.00
555763	134.00	135.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.001	0.040	16.30	8.30	27.80	7,950.0	0.003	37.00	0.44	4.10	13.00
555764	135.00	136.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.001	0.030	8.30	4.60	21.00	6,830.0	0.005	22.00	0.34	4.20	7.00
555765	136.00	137.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.002	0.050	42.50	6.30	22.20	7,960.0	0.009	33.00	0.49	5.40	7.00
555767	137.00	138.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.001	0.060	12.70	3.50	20.80	7,910.0	0.007	28.00	0.45	4.80	8.00
555768	138.00	139.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.101	0.020	2.00	1.70	19.70	8,100.0	0.014	13.00	0.34	3.40	8.00
555769	139.00	140.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.017	0.060	12.10	2.50	18.35	7,670.0	0.008	16.00	0.31	4.10	8.00
555770	140.00	141.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.010	0.020	5.30	1.80	17.90	7,840.0	0.012	14.00	0.29	3.20	7.00
555771	141.00	142.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.018	0.090	8.40	3.70	14.45	6,300.0	0.003	10.00	0.23	2.60	8.00
555772	142.00	143.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.001	0.030	3.80	1.60	16.00	4,670.0	0.003	8.00	0.14	2.10	8.00
555773	143.00	144.00	1.00	2	VO18233843 - Finalized	02/10/2018	1.970	0.310	2.00	28.80	16.45	2,830.0	0.049	10.00	0.41	3.00	16.00
555774	144.00	145.00	1.00	2	VO18233843 - Finalized	02/10/2018	1.305	0.180	4.40	14.00	19.80	4,420.0	0.052	12.00	0.18	2.80	19.00
555775	145.00	146.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.041	0.020	6.20	3.60	24.90	10,850.0	0.005	16.00	0.29	4.10	10.00
555776	146.00	147.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.001	0.060	6.00	1.90	21.90	9,180.0	0.003	11.00	0.33	2.60	7.00
555777	147.00	148.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.043	0.030	6.20	2.80	25.90	9,300.0	0.010	16.00	0.40	3.30	14.00
555778	148.00	149.00	1.00	2	VO18233843 - Finalized	02/10/2018	0.062	0.050	3.80	1.90	19.50	5,590.0	0.008	10.00	0.14	2.30	10.00
555780	149.00	150.00	1.00	2	VO18233843 - Finalized	02/10/2018	1.475	0.060	47.10	15.20	22.30	9,050.0	0.015	10.00	0.17	2.80	9.00
555781	150.00	151.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.158	0.010	18.30	21.40	23.20	9,290.0	0.003	12.00	0.16	2.30	14.00
555782	151.00	152.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.215	0.130	0.80	41.40	19.90	6,310.0	0.023	14.00	0.11	3.40	18.00
555783	152.00	153.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.198	0.170	1.60	112.50	19.60	9,450.0	0.019	46.00	0.95	12.10	43.00
555784	153.00	154.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.691	0.450	6.90	42.80	25.60	32,600.0	0.035	27.00	0.78	8.60	103.00
555785	154.00	155.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.004	0.010	35.90	9.80	30.10	30,700.0	0.029	87.00	1.77	26.50	183.00
555787	155.00	156.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.087	0.020	53.30	13.40	25.20	25,100.0	0.021	77.00	1.39	16.80	141.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
555788	156.00	157.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.042	0.020	18.90	10.70	17.20	15,850.0	0.010	21.00	0.79	4.90	32.00
555789	157.00	158.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.544	0.050	12.60	11.40	18.15	15,200.0	0.070	47.00	0.97	8.90	44.00
555790	158.00	159.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.038	0.020	2.00	30.30	14.75	10,350.0	0.015	23.00	0.93	6.50	41.00
555791	159.00	159.50	0.50	2	VO18233845 - Finalized	02/10/2018	1.155	0.100	9.10	18.60	21.60	12,600.0	0.059	42.00	1.24	8.80	64.00
555792	159.50	160.00	0.50	2	VO18233845 - Finalized	02/10/2018	0.029	0.010	3.60	7.50	21.90	14,000.0	0.017	29.00	0.45	6.00	16.00
555793	160.00	161.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.003	0.020	6.70	3.60	20.70	12,400.0	0.008	29.00	0.29	6.90	10.00
555794	161.00	162.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.001	0.010	4.90	2.50	19.30	11,850.0	0.003	25.00	0.21	4.50	9.00
555795	162.00	163.00	1.00	2	VO18233845 - Finalized	02/10/2018	1.135	0.080	31.50	8.40	23.80	14,250.0	0.017	45.00	0.35	10.50	17.00
555796	163.00	164.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.103	0.950	20.30	9.10	24.00	14,000.0	0.014	36.00	0.71	7.70	15.00
555797	164.00	165.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.067	0.020	11.30	2.60	23.20	10,700.0	0.010	18.00	0.39	5.70	8.00
555798	165.00	166.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.396	0.180	12.10	7.10	20.50	9,260.0	0.035	26.00	0.25	5.70	10.00
555800	166.00	167.00	1.00	2	VO18233845 - Finalized	02/10/2018	0.001	0.030	4.80	3.40	22.30	10,650.0	0.005	24.00	0.29	5.90	9.00
555801	167.00	168.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.089	0.030	7.70	10.20	21.10	10,000.0	0.003	22.00	0.25	6.30	10.00
555802	168.00	169.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.001	0.010	13.70	4.40	21.70	11,150.0	0.006	18.00	0.21	5.70	7.00
555803	169.00	170.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.042	0.010	12.60	5.70	19.55	10,000.0	0.007	21.00	0.28	6.40	7.00
555804	170.00	171.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.009	0.010	8.20	3.80	19.70	9,190.0	0.005	21.00	0.22	5.10	7.00
555805	171.00	172.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.001	0.010	4.30	2.20	18.90	7,600.0	0.003	17.00	0.18	4.40	7.00
555807	172.00	173.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.001	0.020	8.10	3.70	22.10	8,430.0	0.028	37.00	0.28	10.30	16.00
555808	173.00	174.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.001	0.010	6.90	9.20	24.00	9,210.0	0.018	22.00	0.24	4.70	11.00
555809	174.00	175.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.115	0.020	5.00	4.60	20.70	7,500.0	0.016	15.00	0.21	4.00	7.00
555810	175.00	176.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.093	0.010	6.00	8.40	23.20	7,150.0	0.014	8.00	0.20	3.10	7.00
555811	176.00	177.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.122	0.030	7.20	12.90	23.00	8,510.0	0.024	12.00	0.13	3.60	11.00
555812	177.00	178.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.001	0.010	6.10	3.10	21.60	10,000.0	0.020	21.00	0.20	5.70	9.00
555813	178.00	179.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.001	0.010	3.30	3.90	22.20	10,300.0	0.026	25.00	0.25	6.20	8.00
555814	179.00	180.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.001	0.020	4.10	5.30	17.85	8,600.0	0.027	25.00	0.30	4.50	8.00
555815	180.00	181.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.001	0.010	5.90	6.30	20.70	9,990.0	0.088	27.00	0.30	6.80	8.00
555816	181.00	182.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.101	0.020	2.50	11.70	15.85	7,720.0	0.021	17.00	0.28	4.10	8.00
555817	182.00	183.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.001	0.010	3.00	3.60	20.50	10,500.0	0.015	24.00	0.23	5.80	8.00
555818	183.00	184.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.011	0.010	3.40	2.40	14.50	7,960.0	0.018	19.00	0.21	4.30	5.00
555820	184.00	185.00	1.00	2	VO18233848 - Finalized	30/09/2018	0.016	0.030	11.20	4.90	20.90	12,850.0	0.014	29.00	0.43	7.60	10.00
555821	185.00	186.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.001	0.005	12.40	5.40	18.45	13,350.0	0.026	49.00	0.50	9.80	16.00
555822	186.00	187.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.001	0.020	18.60	7.30	20.10	12,950.0	0.029	45.00	1.25	11.90	22.00
555823	187.00	188.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.004	0.020	25.10	6.50	18.00	12,800.0	0.043	56.00	0.47	13.50	13.00
555824	188.00	189.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.001	0.030	4.90	6.60	19.40	13,600.0	0.053	49.00	0.30	8.70	12.00
555825	189.00	190.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.001	0.070	4.00	15.30	19.10	8,230.0	0.033	80.00	0.92	16.50	22.00
555827	190.00	191.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.001	0.010	0.40	6.90	16.25	7,840.0	0.025	50.00	0.30	6.10	13.00
555828	191.00	192.50	1.50	2	VO18233842 - Finalized	30/09/2018	0.001	0.030	1.10	19.40	12.35	5,970.0	0.020	89.00	1.36	17.20	15.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558360	192.50	194.00	1.50	2	VO18233917 - Finalized	05/10/2018	0.001	0.110	15.10	95.40	10.90	974.0	0.021	285.00	2.11	70.60	75.00
558361	194.00	196.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.100	2.20	57.90	5.94	382.0	0.020	80.00	1.01	35.40	144.00
558362	196.00	198.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.080	5.10	64.50	5.17	741.0	0.003	161.00	2.23	52.50	88.00
558363	198.00	200.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.080	9.10	41.10	4.45	379.0	0.008	77.00	0.25	35.70	81.00
558364	200.00	202.10	2.10	2	VO18233859 - Finalized	12/10/2018	0.001	0.070	3.70	32.90	4.46	467.0	0.003	70.00	0.24	33.20	81.00
558365	202.10	204.00	1.90	2	VO18233859 - Finalized	12/10/2018	0.001	0.050	4.50	19.60	4.45	387.0	0.005	74.00	0.21	36.20	87.00
558366	204.00	206.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.050	6.60	36.50	4.40	448.0	0.006	74.00	0.23	35.00	91.00
558367	206.00	208.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.100	5.70	34.00	4.90	464.0	0.006	77.00	0.26	34.40	86.00
558368	208.00	210.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.030	2.90	38.10	4.83	472.0	0.007	71.00	0.27	34.30	71.00
558370	210.00	212.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.020	4.40	7.90	4.10	542.0	0.003	69.00	0.30	31.90	30.00
558371	212.00	214.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.020	0.40	3.00	3.70	582.0	0.003	76.00	0.18	34.10	26.00
558372	214.00	216.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.005	0.50	11.60	4.47	605.0	0.003	73.00	0.31	32.00	40.00
558373	216.00	218.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.040	3.30	132.00	9.57	1,550.0	0.007	373.00	0.33	75.30	99.00
558374	218.00	220.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.040	3.30	147.00	9.78	1,530.0	0.003	383.00	0.29	111.50	97.00
558375	220.00	222.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.020	11.50	68.70	8.42	1,440.0	0.003	282.00	0.21	215.00	83.00
558377	222.00	224.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.002	0.050	13.20	159.00	9.63	1,580.0	0.008	337.00	0.25	225.00	98.00
558378	224.00	226.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.020	0.50	120.50	12.05	1,770.0	0.005	522.00	0.42	29.80	116.00
558379	226.00	228.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.020	1.50	45.00	9.72	1,540.0	0.003	401.00	0.30	121.00	92.00
558380	228.00	230.00	2.00	2	VO18233859 - Finalized	12/10/2018	0.001	0.005	3.80	3.80	8.03	1,340.0	0.003	219.00	0.12	310.00	76.00
558381	230.00	232.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.001	0.060	14.70	133.50	8.97	1,140.0	0.026	355.00	0.22	84.80	79.00
558382	232.00	234.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.001	0.050	2.70	116.00	8.64	1,400.0	0.026	362.00	0.18	86.30	68.00
558383	234.00	236.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.001	0.080	34.90	134.00	9.08	1,670.0	0.030	313.00	0.20	176.50	109.00
558384	236.00	238.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.005	0.140	41.30	143.50	9.78	1,570.0	0.019	350.00	0.21	127.50	104.00
558385	238.00	240.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.002	0.090	4.50	51.90	7.49	4,320.0	0.010	131.00	1.48	41.70	151.00
558386	240.00	242.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.001	0.020	6.30	23.10	5.28	680.0	0.003	97.00	0.67	35.50	87.00
558387	242.00	244.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.001	0.030	7.10	16.50	5.04	405.0	0.003	94.00	0.54	32.40	79.00
558388	244.00	246.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.001	0.100	0.60	56.80	4.36	224.0	0.007	106.00	1.59	36.00	64.00
558390	246.00	248.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.004	0.080	1.60	60.70	4.27	202.0	0.012	103.00	1.48	35.70	72.00
558391	248.00	250.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.001	0.070	0.60	35.10	5.05	181.0	0.005	108.00	0.62	34.30	72.00
558392	250.00	251.10	1.10	2	VO18233864 - Finalized	13/10/2018	0.001	0.080	1.40	28.50	4.78	172.0	0.006	96.00	0.59	34.70	78.00
558393	251.10	253.00	1.90	2	VO18233864 - Finalized	13/10/2018	0.001	0.160	0.50	33.30	5.39	143.0	0.006	89.00	0.32	32.50	69.00
558394	253.00	255.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.002	0.080	0.70	37.40	6.51	267.0	0.003	74.00	0.46	30.10	85.00
558395	255.00	257.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.004	0.220	5.40	78.90	7.83	800.0	0.010	112.00	1.37	35.30	119.00
558397	257.00	259.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.021	0.130	0.50	35.40	3.99	319.0	0.011	84.00	1.40	33.80	74.00
558398	259.00	261.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.002	0.220	2.30	45.30	4.55	271.0	0.020	112.00	1.82	40.60	93.00
558399	261.00	263.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.007	0.300	0.90	94.60	6.32	206.0	0.047	146.00	2.31	43.70	172.00
558400	263.00	265.00	2.00	2	VO18233864 - Finalized	13/10/2018	0.001	0.160	0.60	43.30	4.37	329.0	0.008	93.00	1.59	38.70	92.00



Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558401	265.00	267.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.010	4.50	4.70	7.39	1,260.0	0.003	227.00	0.13	265.00	65.00
558402	267.00	269.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.010	0.40	49.60	8.60	1,380.0	0.008	472.00	0.21	86.00	64.00
558403	269.00	271.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.010	5.60	4.90	8.58	1,460.0	0.003	224.00	0.14	339.00	77.00
558404	271.00	273.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.040	4.60	107.50	8.27	1,350.0	0.015	228.00	0.14	344.00	77.00
558405	273.00	275.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.020	6.80	59.80	8.04	1,300.0	0.011	201.00	0.14	340.00	74.00
558406	275.00	277.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.099	0.020	9.40	49.10	7.95	1,310.0	0.006	189.00	0.17	339.00	72.00
558407	277.00	279.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.030	6.40	78.90	7.24	1,160.0	0.006	224.00	0.16	271.00	63.00
558408	279.00	281.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.040	14.90	86.10	7.77	1,260.0	0.019	193.00	0.10	377.00	70.00
558410	281.00	283.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.030	18.60	73.70	8.32	1,350.0	0.014	181.00	0.09	436.00	76.00
558411	283.00	285.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.030	5.50	84.60	7.69	1,200.0	0.009	212.00	0.13	310.00	67.00
558412	285.00	287.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.020	1.40	78.60	7.01	1,140.0	0.003	237.00	0.19	197.50	68.00
558413	287.00	289.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.030	0.50	116.00	7.14	1,140.0	0.011	282.00	0.18	163.00	63.00
558414	289.00	291.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.050	7.80	100.50	8.04	1,300.0	0.024	176.00	0.11	399.00	80.00
558415	291.00	293.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.040	5.20	92.10	7.60	1,240.0	0.010	212.00	0.14	325.00	73.00
558417	293.00	295.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.030	0.30	105.50	8.08	1,310.0	0.022	192.00	0.21	388.00	77.00
558418	295.00	297.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.050	1.60	116.00	8.44	1,350.0	0.020	205.00	0.19	414.00	82.00
558419	297.00	299.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.030	3.30	98.90	7.96	1,280.0	0.019	183.00	0.26	412.00	78.00
558420	299.00	301.00	2.00	2	VO18233866 - Finalized	12/10/2018	0.001	0.020	2.00	46.00	8.07	1,300.0	0.003	168.00	0.11	397.00	79.00
558421	301.00	303.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.030	9.30	63.20	9.36	1,490.0	0.011	178.00	0.16	512.00	94.00
558422	303.00	305.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.010	5.30	32.00	7.92	1,270.0	0.009	143.00	0.12	398.00	81.00
558423	305.00	307.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.040	1.50	100.50	8.46	1,310.0	0.015	191.00	0.18	439.00	83.00
558424	307.00	309.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.050	0.60	118.50	8.25	1,300.0	0.011	190.00	0.28	441.00	86.00
558425	309.00	311.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.060	0.70	126.50	8.44	1,350.0	0.022	153.00	0.12	492.00	89.00
558426	311.00	313.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.030	0.50	55.00	8.28	1,360.0	0.007	161.00	0.11	508.00	89.00
558427	313.00	315.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.030	0.20	66.50	8.29	1,340.0	0.008	169.00	0.15	509.00	90.00
558428	315.00	317.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.020	0.60	51.30	8.63	1,450.0	0.016	180.00	0.17	561.00	95.00
558430	317.00	319.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.020	2.00	65.00	8.22	1,340.0	0.010	164.00	0.12	504.00	88.00
558431	319.00	321.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.020	0.30	45.20	8.74	1,400.0	0.011	158.00	0.09	529.00	92.00
558432	321.00	323.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.040	0.20	79.20	7.90	1,320.0	0.016	152.00	0.29	448.00	86.00
558433	323.00	325.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.050	1.20	88.30	8.48	1,410.0	0.010	158.00	0.08	527.00	93.00
558434	325.00	327.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.020	0.10	43.00	8.90	1,440.0	0.012	168.00	0.07	544.00	93.00
558435	327.00	329.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.040	0.50	76.60	8.26	1,340.0	0.007	164.00	0.17	517.00	89.00
558437	329.00	331.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.030	1.30	56.90	8.24	1,320.0	0.009	162.00	0.13	504.00	88.00
558438	331.00	333.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.020	1.70	29.70	7.94	1,330.0	0.006	143.00	0.08	462.00	85.00
558439	333.00	335.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.040	4.80	72.70	8.03	1,370.0	0.014	133.00	0.20	509.00	89.00
558440	335.00	337.00	2.00	2	VO18233869 - Finalized	12/10/2018	0.001	0.040	5.00	76.60	9.13	1,480.0	0.007	156.00	0.23	589.00	102.00
558441	337.00	339.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.040	2.50	90.00	8.37	1,340.0	0.021	159.00	0.26	472.00	89.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558442	339.00	341.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.030	6.10	70.50	8.42	1,320.0	0.012	157.00	0.24	474.00	91.00
558443	341.00	343.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.050	2.90	112.50	8.55	1,340.0	0.016	143.00	0.28	528.00	92.00
558444	343.00	345.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.040	6.40	71.20	8.29	1,360.0	0.009	150.00	0.13	514.00	91.00
558445	345.00	347.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.050	3.00	90.80	8.84	1,420.0	0.015	153.00	0.23	560.00	98.00
558446	347.00	349.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.020	3.30	49.20	9.31	1,480.0	0.010	164.00	0.12	616.00	100.00
558447	349.00	351.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.100	4.90	81.20	9.03	1,440.0	0.014	152.00	0.15	580.00	96.00
558448	351.00	353.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.020	1.50	64.70	8.81	1,420.0	0.014	140.00	0.11	588.00	93.00
558450	353.00	355.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.020	0.40	53.80	7.81	1,250.0	0.010	152.00	0.10	472.00	81.00
558501	355.00	357.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.040	0.60	94.90	8.10	1,320.0	0.014	148.00	0.19	465.00	83.00
558502	357.00	359.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.030	0.20	83.40	8.29	1,300.0	0.013	171.00	0.18	490.00	80.00
558503	359.00	361.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.030	0.40	61.00	8.40	1,290.0	0.012	164.00	0.14	473.00	81.00
558504	361.00	363.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.020	0.20	67.10	9.01	1,360.0	0.012	151.00	0.13	533.00	87.00
558505	363.00	365.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.020	2.10	34.90	7.98	1,240.0	0.003	185.00	0.11	512.00	75.00
558506	365.00	367.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.040	0.10	80.40	8.18	1,220.0	0.012	202.00	0.14	506.00	75.00
558507	367.00	369.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.020	1.10	32.90	8.06	1,190.0	0.007	183.00	0.11	485.00	67.00
558508	369.00	371.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.110	0.10	287.00	7.69	1,100.0	0.036	188.00	0.13	441.00	65.00
558510	371.00	373.00	2.00	2	VO18233871 - Finalized	12/10/2018	0.001	0.030	1.40	99.80	7.96	1,200.0	0.017	136.00	0.22	386.00	75.00
558511	373.00	375.00	2.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.020	0.10	85.70	7.90	1,180.0	0.011	204.00	0.26	352.00	73.00
558512	375.00	377.00	2.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.040	1.30	124.00	7.30	1,080.0	0.014	210.00	0.39	310.00	64.00
558513	377.00	379.00	2.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.020	0.80	79.90	7.79	1,200.0	0.018	209.00	0.19	338.00	70.00
558514	379.00	381.00	2.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.020	0.20	50.10	7.86	1,270.0	0.007	225.00	0.23	296.00	74.00
558515	381.00	383.00	2.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.040	0.10	102.00	7.89	1,260.0	0.020	284.00	0.32	137.00	76.00
558517	383.00	385.00	2.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.040	0.30	309.00	11.65	1,580.0	0.010	587.00	0.43	60.60	103.00
558518	385.00	387.00	2.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.040	0.10	55.60	8.56	1,380.0	0.005	280.00	0.72	160.50	87.00
558519	387.00	389.00	2.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.030	0.20	138.00	8.35	1,380.0	0.008	298.00	0.35	172.00	83.00
558520	389.00	391.00	2.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.030	0.50	92.60	8.13	1,360.0	0.007	202.00	0.18	320.00	81.00
558521	391.00	393.00	2.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.040	0.60	164.00	7.45	1,160.0	0.003	237.00	0.21	215.00	66.00
558522	393.00	395.00	2.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.030	0.20	125.50	8.67	1,220.0	0.003	294.00	0.24	188.00	80.00
558523	395.00	396.00	1.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.030	0.10	74.70	8.35	1,320.0	0.006	301.00	0.31	63.90	74.00
558530	396.00	397.00	1.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.010	0.10	7.20	5.40	639.0	0.003	84.00	0.26	37.10	26.00
558524	397.00	399.00	2.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.010	0.10	1.00	3.85	356.0	0.003	71.00	0.16	34.30	12.00
558525	399.00	400.30	1.30	2	VO18233846 - Finalized	13/10/2018	0.001	0.010	0.10	1.50	3.11	374.0	0.003	71.00	0.15	33.80	13.00
558526	400.30	403.00	2.70	2	VO18233846 - Finalized	13/10/2018	0.001	0.030	0.20	146.50	9.29	1,410.0	0.009	340.00	0.32	120.00	98.00
558527	403.00	405.00	2.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.050	0.80	195.50	9.59	1,410.0	0.006	349.00	0.35	142.00	103.00
558528	405.00	407.00	2.00	2	VO18233846 - Finalized	13/10/2018	0.001	0.040	10.50	185.00	8.93	1,380.0	0.005	355.00	0.29	135.00	94.00
558531	407.00	409.00	2.00	2	VO18233850 - Finalized	13/10/2018	0.001	0.040	5.00	128.50	8.95	1,380.0	0.003	351.00	0.23	81.70	94.00
558532	409.00	410.35	1.35	2	VO18233850 - Finalized	13/10/2018	0.001	0.120	36.20	116.50	8.75	1,420.0	0.027	356.00	0.21	84.60	75.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558533	410.35	412.00	1.65	2	VO18233850 - Finalized	13/10/2018	0.001	0.040	8.80	2.60	4.26	860.0	0.003	106.00	0.11	40.90	28.00
558534	412.00	414.00	2.00	2	VO18233850 - Finalized	13/10/2018	0.001	0.040	8.80	53.80	5.24	907.0	0.005	175.00	0.23	60.00	40.00
558535	414.00	416.00	2.00	2	VO18233850 - Finalized	13/10/2018	0.001	0.030	0.10	25.70	4.00	537.0	0.003	69.00	0.27	32.40	49.00
558537	416.00	418.00	2.00	2	VO18233850 - Finalized	13/10/2018	0.001	0.070	3.50	28.50	3.81	399.0	0.008	71.00	0.28	32.00	83.00
558538	418.00	420.00	2.00	2	VO18233850 - Finalized	13/10/2018	0.001	0.450	1.80	30.10	3.40	294.0	0.003	81.00	0.64	32.60	82.00
558539	420.00	422.00	2.00	2	VO18233850 - Finalized	13/10/2018	0.001	0.080	13.50	80.60	6.16	744.0	0.008	254.00	2.37	73.60	111.00
558540	422.00	424.00	2.00	2	VO18233850 - Finalized	13/10/2018	0.001	0.090	21.80	92.60	8.42	1,130.0	0.006	189.00	0.90	57.80	115.00
558541	424.00	426.00	2.00	2	VO18233850 - Finalized	13/10/2018	0.001	0.090	10.60	38.20	5.51	368.0	0.003	117.00	0.54	38.90	79.00
558542	426.00	428.00	2.00	2	VO18233850 - Finalized	13/10/2018	0.001	0.090	2.60	57.00	4.82	223.0	0.006	113.00	1.50	39.60	86.00
558543	428.00	430.00	2.00	2	VO18233850 - Finalized	13/10/2018	0.001	0.040	7.80	30.10	4.64	311.0	0.008	73.00	0.50	33.70	78.00
558544	430.00	430.88	0.88	2	VO18233850 - Finalized	13/10/2018	0.002	0.300	15.70	94.20	8.01	822.0	0.041	107.00	4.26	59.30	141.00
558545	430.90	432.00	1.10	2	VO18233850 - Finalized	13/10/2018	0.025	1.400	5.90	459.00	16.60	254.0	0.373	311.00	31.30	145.50	1 200.00
558546	432.00	434.13	2.13	2	VO18233850 - Finalized	13/10/2018	0.001	0.340	19.60	156.00	7.75	257.0	0.100	95.00	4.97	56.00	380.00
558547	434.15	436.00	1.85	2	VO18233850 - Finalized	13/10/2018	0.001	0.060	61.90	31.10	4.44	219.0	0.015	68.00	0.72	34.50	74.00
558548	436.00	438.20	2.20	2	VO18233850 - Finalized	13/10/2018	0.005	0.720	2.50	78.50	6.54	373.0	0.153	70.00	2.31	35.60	504.00
558550	438.20	439.75	1.55	2	VO18233850 - Finalized	13/10/2018	0.007	0.440	3.20	115.50	12.45	267.0	0.268	165.00	11.85	85.00	654.00
555829	439.75	441.00	1.25	2	VO18233842 - Finalized	30/09/2018	0.001	0.050	11.60	19.60	18.05	6,530.0	0.003	28.00	0.76	8.80	36.00
555830	441.00	442.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.001	0.010	0.90	1.50	22.30	7,090.0	0.003	13.00	0.18	2.50	19.00
555831	442.00	443.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.001	0.020	4.60	2.40	21.00	10,300.0	0.003	20.00	0.43	5.20	13.00
555832	443.00	444.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.001	0.020	4.00	3.20	21.00	10,350.0	0.003	21.00	0.36	6.20	9.00
555833	444.00	445.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.001	0.020	0.30	1.40	19.45	6,700.0	0.006	8.00	0.17	2.50	7.00
555834	445.00	446.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.001	0.020	1.70	2.30	24.30	10,200.0	0.003	18.00	0.40	5.30	8.00
555835	446.00	447.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.001	0.030	2.80	2.70	26.80	11,600.0	0.003	19.00	0.44	5.70	10.00
555836	447.00	448.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.001	0.070	2.40	2.90	26.70	11,350.0	0.003	25.00	0.46	5.90	10.00
555837	448.00	449.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.004	0.020	2.70	2.50	22.80	8,870.0	0.006	21.00	0.44	5.20	30.00
555838	449.00	450.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.001	0.020	1.70	1.20	30.70	9,640.0	0.003	15.00	0.19	2.70	29.00
555840	450.00	451.00	1.00	2	VO18233842 - Finalized	30/09/2018	0.001	0.120	1.10	2.00	26.60	8,700.0	0.006	20.00	0.23	3.30	17.00
555841	451.00	452.00	1.00	2	VO18233836 - Finalized	30/09/2018	0.001	0.130	0.40	2.20	26.90	10,150.0	0.003	16.00	0.25	3.90	8.00
555842	452.00	452.85	0.85	2	VO18233836 - Finalized	30/09/2018	0.001	0.080	8.90	9.10	23.40	14,350.0	0.003	63.00	0.43	11.50	22.00
555843	452.85	454.00	1.15	2	VO18233836 - Finalized	30/09/2018	0.002	0.190	6.40	47.70	12.30	890.0	0.011	229.00	2.25	48.30	146.00
555844	454.00	455.00	1.00	2	VO18233836 - Finalized	30/09/2018	0.001	0.110	67.70	34.00	9.00	1,300.0	0.003	255.00	1.18	92.40	202.00
555845	455.00	456.00	1.00	2	VO18233836 - Finalized	30/09/2018	0.001	0.050	25.60	60.40	7.22	557.0	0.003	304.00	2.57	71.90	197.00
555847	456.00	457.00	1.00	2	VO18233836 - Finalized	30/09/2018	0.001	0.100	67.30	39.80	8.76	1,120.0	0.005	342.00	0.50	84.10	165.00
555848	457.00	457.50	0.50	2	VO18233836 - Finalized	30/09/2018	0.001	0.130	74.00	74.60	9.95	1,300.0	0.008	381.00	0.21	91.30	258.00
558551	457.50	458.35	0.85	2	VO18233860 - Finalized	13/10/2018	0.002	0.150	0.30	149.00	6.33	103.0	0.016	278.00	3.98	51.30	131.00
558552	458.35	460.00	1.65	2	VO18233860 - Finalized	13/10/2018	0.001	0.190	67.00	153.00	9.10	1,060.0	0.003	334.00	0.28	115.00	136.00
558553	460.00	462.00	2.00	2	VO18233860 - Finalized	13/10/2018	0.005	0.170	51.50	138.50	8.14	1,180.0	0.006	275.00	0.36	96.30	98.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558554	462.00	463.10	1.10	2	VO18233860 - Finalized	13/10/2018	0.001	0.050	5.30	45.10	9.03	510.0	0.007	165.00	2.27	49.10	162.00
558555	463.10	464.20	1.10	2	VO18233860 - Finalized	13/10/2018	0.004	0.200	1.60	41.30	11.15	384.0	0.010	237.00	1.94	58.60	147.00
555849	464.20	465.00	0.80	2	VO18233836 - Finalized	30/09/2018	0.001	0.130	0.50	24.10	17.40	6,190.0	0.003	41.00	0.32	8.40	69.00
555850	465.00	466.00	1.00	2	VO18233836 - Finalized	30/09/2018	0.001	0.090	1.80	15.70	13.65	5,050.0	0.005	20.00	0.53	3.70	42.00
555851	466.00	467.00	1.00	2	VO18233836 - Finalized	30/09/2018	0.002	0.190	1.60	28.00	10.65	2,240.0	0.005	16.00	1.84	9.20	26.00
555852	467.00	468.00	1.00	2	VO18233836 - Finalized	30/09/2018	0.001	0.130	0.80	25.30	16.30	7,280.0	0.007	10.00	0.40	4.70	31.00
555853	468.00	469.00	1.00	2	VO18233836 - Finalized	30/09/2018	0.004	0.080	0.90	16.10	20.70	10,500.0	0.003	19.00	0.20	5.70	38.00
555854	469.00	469.50	0.50	2	VO18233836 - Finalized	30/09/2018	0.013	0.190	3.60	30.80	20.20	11,550.0	0.005	44.00	0.27	17.00	51.00
558556	469.50	470.60	1.10	2	VO18233860 - Finalized	13/10/2018	0.001	0.190	34.30	60.20	10.20	820.0	0.005	197.00	3.18	60.20	136.00
555855	470.70	472.00	1.30	2	VO18233836 - Finalized	30/09/2018	0.001	0.380	64.60	98.00	10.55	2,360.0	0.014	202.00	2.63	48.70	125.00
555856	472.00	473.00	1.00	2	VO18233836 - Finalized	30/09/2018	0.001	0.260	26.80	92.60	8.02	1,000.0	0.023	286.00	3.85	72.40	199.00
555857	473.00	473.40	0.40	2	VO18233836 - Finalized	30/09/2018	0.002	0.300	9.00	116.50	8.44	2,550.0	0.003	272.00	0.99	80.90	107.00
558557	473.40	475.00	1.60	2	VO18233860 - Finalized	13/10/2018	0.025	1.350	109.00	195.00	15.85	642.0	0.302	180.00	16.10	162.00	671.00
558558	475.00	477.00	2.00	2	VO18233860 - Finalized	13/10/2018	0.026	1.730	125.00	175.50	13.30	613.0	0.624	813.00	74.00	201.00	1 580.00
558560	477.00	479.00	2.00	2	VO18233860 - Finalized	13/10/2018	0.025	2.390	113.00	222.00	13.25	2,120.0	0.522	957.00	107.00	198.50	1 820.00
558561	479.00	481.00	2.00	2	VO18233860 - Finalized	13/10/2018	0.026	2.180	93.30	315.00	16.00	1,840.0	0.565	954.00	111.50	275.00	2 370.00
558562	481.00	483.00	2.00	2	VO18233860 - Finalized	13/10/2018	0.024	2.020	148.50	322.00	14.15	1,800.0	0.532	884.00	97.50	239.00	2 320.00
558563	483.00	485.00	2.00	2	VO18233860 - Finalized	13/10/2018	0.018	2.100	172.00	354.00	16.50	2,620.0	0.494	914.00	102.50	259.00	2 360.00
558564	485.00	487.00	2.00	2	VO18233860 - Finalized	13/10/2018	0.020	2.080	248.00	272.00	15.90	3,200.0	0.498	959.00	106.50	240.00	1 800.00
558565	487.00	489.00	2.00	2	VO18233860 - Finalized	13/10/2018	0.045	2.980	368.00	128.00	16.20	506.0	1.215	1 040.00	103.00	249.00	2 070.00
558567	489.00	491.00	2.00	2	VO18233860 - Finalized	13/10/2018	0.041	2.910	435.00	44.40	19.20	207.0	1.115	570.00	65.20	205.00	1 050.00
558568	491.00	493.00	2.00	2	VO18233860 - Finalized	13/10/2018	0.041	2.650	407.00	104.00	15.10	754.0	1.300	1 240.00	112.00	297.00	2 340.00
558569	493.00	494.75	1.75	2	VO18233860 - Finalized	13/10/2018	0.042	2.660	305.00	173.00	13.75	2,260.0	1.125	1 360.00	123.50	325.00	2 500.00
558570	494.75	496.00	1.25	2	VO18233860 - Finalized	13/10/2018	0.005	0.870	223.00	239.00	8.44	2,650.0	0.059	183.00	7.62	109.50	191.00
558571	496.00	498.00	2.00	2	VO18233863 - Finalized	14/10/2018	0.001	0.430	114.00	86.10	8.88	5,420.0	0.020	93.00	3.59	32.60	115.00
558572	498.00	500.00	2.00	2	VO18233863 - Finalized	14/10/2018	0.001	0.170	65.40	47.60	9.74	5,870.0	0.021	81.00	3.92	26.70	124.00
558573	500.00	502.00	2.00	2	VO18233863 - Finalized	14/10/2018	0.002	0.560	64.50	148.50	7.79	1,180.0	0.031	144.00	3.80	45.40	168.00
558574	502.00	503.15	1.15	2	VO18233863 - Finalized	14/10/2018	0.001	0.660	37.40	167.00	8.79	2,000.0	0.078	129.00	3.78	106.00	352.00
558575	503.15	505.00	1.85	2	VO18233863 - Finalized	14/10/2018	0.056	5.130	90.80	426.00	17.00	1,300.0	0.743	1 540.00	170.50	374.00	2 890.00
558576	505.00	507.00	2.00	2	VO18233863 - Finalized	14/10/2018	0.062	4.630	152.00	276.00	15.30	2,940.0	0.813	1 430.00	149.50	347.00	2 110.00
558577	507.00	509.00	2.00	2	VO18233863 - Finalized	14/10/2018	0.075	5.060	217.00	190.00	13.55	1,060.0	1.240	1 780.00	194.00	358.00	2 970.00
558578	509.00	511.00	2.00	2	VO18233863 - Finalized	14/10/2018	0.062	4.840	92.80	311.00	13.60	1,220.0	0.751	1 320.00	141.50	354.00	2 160.00
558580	511.00	513.00	2.00	2	VO18233863 - Finalized	14/10/2018	0.042	4.720	62.20	373.00	13.75	842.0	1.195	1 820.00	223.00	308.00	4 650.00
558581	513.00	515.00	2.00	2	VO18233863 - Finalized	14/10/2018	0.035	4.920	47.80	531.00	19.30	290.0	0.533	1 460.00	121.00	391.00	2 530.00
558582	515.00	517.00	2.00	2	VO18233863 - Finalized	14/10/2018	0.023	4.110	23.70	392.00	15.35	866.0	0.822	1 780.00	184.50	307.00	3 310.00
558583	517.00	518.80	1.80	2	VO18233863 - Finalized	14/10/2018	0.079	5.820	16.50	386.00	14.25	1,800.0	1.020	1 250.00	141.50	294.00	4 480.00
558584	518.80	520.00	1.20	2	VO18233863 - Finalized	14/10/2018	0.028	2.660	158.00	242.00	10.80	3,210.0	0.429	652.00	64.60	190.00	1 740.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558585	520.00	522.00	2.00	2	VO18233863 - Finalized	14/10/2018	0.001	0.560	59.40	124.00	15.70	2,840.0	0.059	171.00	4.93	50.40	358.00
558586	522.00	524.00	2.00	2	VO18233863 - Finalized	14/10/2018	0.001	0.220	22.30	65.30	9.61	3,270.0	0.064	128.00	7.08	35.40	288.00
558587	524.00	526.00	2.00	2	VO18233863 - Finalized	14/10/2018	0.001	0.480	145.50	114.00	13.75	2,340.0	0.043	142.00	4.74	57.80	266.00
558588	526.00	527.00	1.00	2	VO18233863 - Finalized	14/10/2018	0.012	1.340	126.50	189.50	14.10	2,010.0	0.281	551.00	52.80	163.00	1 260.00
558590	527.00	529.00	2.00	2	VO18233863 - Finalized	14/10/2018	0.047	4.520	8.60	315.00	17.00	1,560.0	0.591	1 220.00	145.00	300.00	2 750.00
558591	529.00	531.00	2.00	2	VO18239165 - Finalized	17/10/2018	0.055	3.730	55.20	204.00	15.45	1,090.0	0.680	1 120.00	126.50	227.00	2 600.00
558592	531.00	531.50	0.50	2	VO18239165 - Finalized	17/10/2018	0.002	0.770	10.80	112.50	9.48	524.0	0.071	242.00	16.65	129.50	356.00
558593	531.50	532.45	0.95	2	VO18239165 - Finalized	17/10/2018	0.001	0.300	2.30	69.10	8.50	7,650.0	0.024	112.00	1.12	65.00	145.00
558594	532.45	534.00	1.55	2	VO18239165 - Finalized	17/10/2018	0.023	1.950	95.00	162.00	14.65	1,560.0	0.624	415.00	46.40	182.50	1 310.00
558595	534.00	536.00	2.00	2	VO18239165 - Finalized	17/10/2018	0.030	2.010	119.50	346.00	12.70	1,260.0	0.721	1 340.00	162.00	394.00	1 910.00
558596	536.00	538.00	2.00	2	VO18239165 - Finalized	17/10/2018	0.037	2.270	81.20	256.00	9.48	1,360.0	0.714	1 600.00	180.00	369.00	2 700.00
558597	538.00	540.00	2.00	2	VO18239165 - Finalized	17/10/2018	0.031	2.080	35.40	300.00	7.26	600.0	0.447	1 240.00	150.00	315.00	2 410.00
558598	540.00	542.00	2.00	2	VO18239165 - Finalized	17/10/2018	0.024	1.270	5.10	169.00	4.49	188.0	0.253	1 160.00	189.50	238.00	1 940.00
558600	542.00	544.00	2.00	2	VO18239165 - Finalized	17/10/2018	0.013	0.810	12.50	247.00	9.34	664.0	0.068	377.00	9.40	114.00	406.00
558601	544.00	546.00	2.00	2	VO18239165 - Finalized	17/10/2018	0.027	1.900	54.70	250.00	15.15	721.0	0.230	441.00	42.70	186.50	682.00
558602	546.00	548.00	2.00	2	VO18239165 - Finalized	17/10/2018	0.026	1.670	61.70	157.00	12.65	313.0	0.284	227.00	24.10	145.50	1 200.00
558603	548.00	550.00	2.00	2	VO18239165 - Finalized	17/10/2018	0.012	0.930	45.50	88.40	8.68	153.0	0.176	175.00	13.00	91.60	595.00
558604	550.00	552.15	2.15	2	VO18239165 - Finalized	17/10/2018	0.012	0.820	9.70	80.70	7.43	497.0	0.042	152.00	18.45	70.30	249.00
555858	552.15	553.00	0.85	2	VO18233836 - Finalized	30/09/2018	0.001	0.180	0.20	17.60	14.05	2,220.0	0.003	7.00	0.78	10.30	18.00
555860	553.00	554.00	1.00	2	VO18233836 - Finalized	30/09/2018	0.001	0.090	1.80	10.10	12.75	1,990.0	0.003	7.00	0.43	5.80	11.00
555861	554.00	555.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.050	0.90	3.10	12.70	2,270.0	0.003	6.00	0.23	7.40	7.00
555862	555.00	556.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.002	0.120	1.10	8.40	10.10	2,080.0	0.003	8.00	0.72	14.60	12.00
555863	556.00	557.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.150	1.80	10.00	9.91	1,660.0	0.008	5.00	0.72	12.80	12.00
555864	557.00	558.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.110	1.90	6.20	9.93	1,810.0	0.003	5.00	0.45	11.80	10.00
555865	558.00	559.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.150	0.40	15.10	11.50	2,990.0	0.005	16.00	0.61	24.30	12.00
555867	559.00	560.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.120	425.00	147.00	14.60	2,980.0	0.013	192.00	6.14	555.00	69.00
555868	560.00	561.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.020	1.00	17.60	16.00	8,430.0	0.003	37.00	0.82	20.30	19.00
555869	561.00	562.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.040	1.00	5.80	21.20	11,750.0	0.003	39.00	0.97	9.40	14.00
555870	562.00	563.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.020	0.50	4.60	19.55	10,750.0	0.003	25.00	0.51	7.40	10.00
555871	563.00	564.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.110	1.10	11.00	22.50	17,400.0	0.003	74.00	0.74	13.90	32.00
555872	564.00	565.15	1.15	2	VO18236841 - Finalized	03/10/2018	0.001	0.320	1.10	35.90	18.75	13,600.0	0.008	66.00	1.54	41.20	41.00
558605	565.15	567.00	1.85	2	VO18239165 - Finalized	17/10/2018	0.009	0.730	4.80	90.30	9.76	429.0	0.076	167.00	11.45	83.00	276.00
558606	567.00	568.00	1.00	2	VO18239165 - Finalized	17/10/2018	0.002	1.050	9.50	108.50	11.65	692.0	0.097	155.00	10.70	104.50	411.00
558607	568.00	569.25	1.25	2	VO18239165 - Finalized	17/10/2018	0.007	0.870	3.20	74.70	8.47	192.0	0.106	170.00	14.85	73.40	484.00
555873	569.25	570.00	0.75	2	VO18236841 - Finalized	03/10/2018	0.001	0.190	0.50	21.90	10.15	2,910.0	0.008	10.00	1.16	8.30	25.00
555874	570.00	571.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.070	3.20	6.10	8.79	3,300.0	0.006	18.00	0.43	4.60	27.00
555875	571.00	572.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.050	1.50	6.80	16.60	8,540.0	0.007	36.00	0.55	6.40	48.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
555876	572.00	573.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.030	1.10	3.20	20.90	13,150.0	0.003	46.00	0.57	8.80	29.00
555877	573.00	574.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.040	3.60	5.40	20.80	16,950.0	0.003	74.00	0.58	11.30	27.00
555878	574.00	575.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.070	3.70	7.20	19.60	16,300.0	0.003	75.00	0.75	13.40	26.00
555880	575.00	576.00	1.00	2	VO18236841 - Finalized	03/10/2018	0.001	0.110	6.60	8.80	17.55	14,350.0	0.003	67.00	0.70	14.80	25.00
555881	576.00	577.00	1.00	2	VO18236845 - Finalized	03/10/2018	0.001	0.150	9.80	8.10	20.20	27,500.0	0.003	113.00	2.12	18.30	42.00
555882	577.00	577.90	0.90	2	VO18236845 - Finalized	03/10/2018	0.001	0.090	0.50	33.30	16.60	27,500.0	0.007	109.00	1.39	28.90	56.00
558608	577.90	579.00	1.10	2	VO18239165 - Finalized	17/10/2018	0.011	0.790	51.50	194.50	16.45	782.0	0.149	342.00	35.90	194.50	537.00
558610	579.00	581.00	2.00	2	VO18239165 - Finalized	17/10/2018	0.035	1.400	162.50	66.70	12.95	1,160.0	0.635	741.00	84.20	181.50	1 240.00
558611	581.00	583.00	2.00	2	VO18239166 - Finalized	11/10/2018	0.017	0.680	121.00	81.40	14.05	396.0	0.375	282.00	30.90	152.50	937.00
558612	583.00	584.00	1.00	2	VO18239166 - Finalized	11/10/2018	0.013	0.610	47.20	114.50	10.95	241.0	0.160	188.00	13.50	116.50	425.00
558613	584.00	585.40	1.40	2	VO18239166 - Finalized	11/10/2018	0.006	0.480	21.50	84.50	8.19	408.0	0.071	158.00	15.40	81.50	213.00
555883	585.40	586.00	0.60	2	VO18236845 - Finalized	03/10/2018	0.001	0.140	4.00	34.00	10.10	1,600.0	0.005	11.00	2.93	22.10	10.00
555884	586.00	587.00	1.00	2	VO18236845 - Finalized	03/10/2018	0.001	0.040	8.70	2.00	9.05	1,840.0	0.003	10.00	0.52	4.80	6.00
555885	587.00	588.40	1.40	2	VO18236845 - Finalized	03/10/2018	0.001	0.020	43.80	2.10	11.65	3,490.0	0.003	17.00	1.27	24.90	9.00
555887	588.40	589.00	0.60	2	VO18236845 - Finalized	03/10/2018	0.001	0.020	2.10	5.30	21.10	12,850.0	0.003	36.00	0.95	8.50	14.00
555888	589.00	590.00	1.00	2	VO18236845 - Finalized	03/10/2018	0.001	0.030	9.20	6.90	21.30	13,450.0	0.006	51.00	0.43	9.90	11.00
555889	590.00	591.00	1.00	2	VO18236845 - Finalized	03/10/2018	0.001	0.040	3.90	10.50	18.95	15,800.0	0.005	67.00	0.75	11.30	13.00
555890	591.00	592.00	1.00	2	VO18236845 - Finalized	03/10/2018	0.001	0.040	12.90	9.70	20.80	15,450.0	0.003	74.00	0.77	13.70	18.00
555891	592.00	593.00	1.00	2	VO18236845 - Finalized	03/10/2018	0.002	0.050	4.20	9.90	20.60	20,600.0	0.003	65.00	0.63	13.00	13.00
555892	593.00	594.00	1.00	2	VO18236845 - Finalized	03/10/2018	0.002	0.030	3.00	9.60	17.20	12,350.0	0.003	69.00	0.63	11.80	13.00
555893	594.00	595.00	1.00	2	VO18236845 - Finalized	03/10/2018	0.001	0.030	6.10	9.90	21.10	18,050.0	0.003	66.00	0.69	11.90	14.00
555894	595.00	596.00	1.00	2	VO18236845 - Finalized	03/10/2018	0.005	0.040	2.50	8.20	19.55	22,800.0	0.003	66.00	0.56	11.70	15.00
555895	596.00	596.90	0.90	2	VO18236845 - Finalized	03/10/2018	0.001	0.040	0.80	5.30	17.75	29,400.0	0.003	44.00	0.37	7.10	12.00
558614	596.90	598.00	1.10	2	VO18239166 - Finalized	11/10/2018	0.002	0.210	3.00	32.60	14.40	1,460.0	0.003	202.00	4.64	54.40	143.00
558615	598.00	600.00	2.00	2	VO18239166 - Finalized	11/10/2018	0.002	0.180	8.90	36.50	10.85	5,480.0	0.005	179.00	1.15	51.20	138.00
558617	600.00	602.00	2.00	2	VO18239166 - Finalized	11/10/2018	0.001	0.180	5.00	34.40	9.09	13,600.0	0.003	154.00	1.00	44.70	139.00
558618	602.00	604.00	2.00	2	VO18239166 - Finalized	11/10/2018	0.001	0.190	7.80	29.30	9.06	13,700.0	0.003	143.00	0.89	41.00	152.00



## Detailed Log Report

### Hole Number OSK-KAN-18-026

Project		Coordinates		Collar			
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	45.00	<b>Collar Az:</b>	270.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 369 109.00	<b>Length:</b>	166.00	<b>Hole Size:</b>	NQ
<b>Start Date:</b>	September 16, 2019	<b>East:</b>	486 426.00	<b>Hole Type:</b>	DDH	<b>Surveyed:</b>	N
<b>Completed Date:</b>	September 17, 2018	<b>Elev:</b>	167.10	<b>Casing Length:</b>	9.40	<b>Pulled:</b>	N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	Y	<b>Making Water:</b>	N
<b>Logger 1:</b>	Simon Hébert			<b>Multi Shot:</b>	Y	<b>Section:</b>	N.A.
<b>Target:</b>	150			<b>Claims Title:</b>	2099196	<b>Township:</b>	Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06	<b>Log Complete:</b>	Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing		

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	9.40	OVB, Overburden					
<b>Comments:</b>							
9.40	21.00	I3A, Gabbro	558619	9.40	11.00	1.60	I3A Chl-Cal; CC-4 CC-1 Ank-1; 0.1% I1N QZ CC 60°
			558620	11.00	13.00	2.00	I3A Chl-Cal; CC-4 CC-1 Ank-1; 0.1% I1N QZ CC 60°
<b>Comments:</b>							
			558621	13.00	15.00	2.00	I3A Chl-Cal; CC-4 CC-1 Ank-1; 0.1% I1N QZ CC 60°
			558622	15.00	17.00	2.00	I3A Chl-Cal; CC-4 CC-1 Ank-1; 0.1% I1N QZ CC 60°
			558623	17.00	19.00	2.00	I3A Chl-Cal; CC-4 CC-1 Ank-1; 0.1% I1N QZ CC 60°
			558624	19.00	21.00	2.00	I3A Chl-Cal; CC-4 CC-1 Ank-1; 0.1% I1N QZ CC 60°

From	To	Lithology	Sample	From	To	Length	Comments
21.00	59.65	S6g, Grey Shale	558625	21.00	23.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558626	23.00	25.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
<b>Comments:</b>			558627	25.00	27.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558628	27.00	29.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558630	29.00	31.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558631	31.00	33.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558632	33.00	35.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558633	35.00	37.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558634	37.00	39.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558635	39.00	41.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558637	41.00	43.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558638	43.00	45.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558639	45.00	47.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558640	47.00	49.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558641	49.00	51.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558642	51.00	53.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
			558643	53.00	55.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°
		558644	55.00	57.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°	
		558645	57.00	59.00	2.00	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°	
		558646	59.00	59.65	0.65	S6g; CC-4 CC-1; 0.1% Po SS BD 0.1% Po DI VN; 1% I1N QZ AK 90°	
59.65	67.30	I3A, Gabbro	558647	59.65	61.00	1.35	I3A Chl-Cal; CC-4 CC-1; 2% I1N QZ CC 60°
			558648	61.00	63.00	2.00	I3A Chl-Cal; CC-4 CC-1; 2% I1N QZ CC 60°
<b>Comments:</b>			558650	63.00	65.00	2.00	I3A Chl-Cal; CC-4 CC-1; 2% I1N QZ CC 60°
			558651	65.00	67.00	2.00	I3A Chl-Cal; CC-4 CC-1; 1% Po SS SCH; 2% I1N QZ CC 60°
			558652	67.00	67.30	0.30	I3A Chl-Cal; CC-4 CC-1; 2% I1N QZ CC 60°
67.30	80.30	S9, Iron formation	555896	67.30	68.00	0.70	S9C Sid; Ank-2 Chl-3 Ank-2; 0.1% Po DI PER 1% Po AL VN; 3% I1N QZ AK 70°
			555897	68.00	69.00	1.00	S9C Sid; Ank-2 Chl-3 Ank-2; 0.1% Po DI PER 1% Po AL VN; 3% I1N QZ AK 70°
<b>Comments:</b>			555898	69.00	70.00	1.00	S9C Sid; Ank-2 Chl-3 Ank-2; 0.1% Po DI PER 1% Po AL VN; 3% I1N QZ AK 70°
			555900	70.00	71.00	1.00	S9C Sid; Ank-2 Chl-3 Ank-2; 0.1% Po DI PER 1% Po AL VN; 3% I1N QZ AK 70°
			555901	71.00	72.00	1.00	S9C Sid; Ank-2 Chl-3 Ank-2; 0.1% Po DI PER 1% Po AL VN; 3% I1N QZ AK 70°
			555902	72.00	73.00	1.00	S9C Sid; Ank-2 Chl-3 Ank-2; 0.1% Po DI PER 1% Po AL VN; 3% I1N QZ AK 70°
			555903	73.00	73.35	0.35	S9C Sid; Ank-2 Chl-3 Ank-2; 0.1% Po DI PER 1% Po AL VN; 3% I1N QZ AK 70°
			555904	73.35	74.00	0.65	S10C; Ank-5 Chl-2; 5% Po AL PER 0.5% Po AL VN; 10% I1N QZ AK 70°
			555905	74.00	75.00	1.00	S10C; Ank-5 Chl-2; 5% Po AL PER 0.5% Po AL VN; 10% I1N QZ AK 70°
			555907	75.00	76.00	1.00	S10C; Ank-5 Chl-2; 5% Po AL PER 0.5% Po AL VN; 10% I1N QZ AK 70°
			555908	76.00	77.00	1.00	S10C; Ank-5 Chl-2; 5% Po AL PER 0.5% Po AL VN; 10% I1N QZ AK 70°
			555909	77.00	77.80	0.80	S10C; Ank-5 Chl-2; 5% Po AL PER 0.5% Po AL VN; 10% I1N QZ AK 70°
		555910	77.80	79.00	1.20	S9C Sid; Ank-2 Chl-1; 0.1% Po DI PER 1% Po AL VN; 3% I1N QZ AK 70°	
		555911	79.00	80.30	1.30	S9C Sid; Ank-2 Chl-1; 0.1% Po DI PER 1% Po AL VN; 3% I1N QZ AK 70°	



From	To	Lithology	Sample	From	To	Length	Comments
80.30	80.80	S6, Mudrock	555912	80.30	80.80	0.50	S6; NO ALT; 20% Po SS BD 0.5% Py DI BD

Comments:

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From	To	Lithology	Sample	From	To	Length	Comments	
80.80	129.50	S9, Iron formation	555913	80.80	82.00	1.20	S9C Ank; Ank-3 Chl-2; 0.1% Po DI PER 0.1% Po AL VN; 2% I1N QZ AK 60°	
			555914	82.00	83.00	1.00	S9C Ank; Ank-3 Chl-2; 0.1% Po DI PER 0.1% Po AL VN; 2% I1N QZ AK 60°	
<b>Comments:</b>			555915	83.00	84.00	1.00	S9C Ank; Ank-3 Chl-2; 0.1% Po DI PER 0.1% Po AL VN; 2% I1N QZ AK 60°	
			555916	84.00	85.00	1.00	S9C Ank; Ank-3 Chl-2; 0.1% Po DI PER 0.1% Po AL VN; 2% I1N QZ AK 60°	
			555917	85.00	86.00	1.00	S9C Ank; Ank-3 Chl-2; 0.1% Po DI PER 0.1% Po AL VN; 2% I1N QZ AK 60°	
			555918	86.00	87.00	1.00	S9C Ank; Ank-3 Chl-2; 0.1% Po DI PER 0.1% Po AL VN; 2% I1N QZ AK 60°	
			555920	87.00	88.00	1.00	S9C Ank; Ank-3 Chl-2; 0.1% Po DI PER 0.1% Po AL VN; 2% I1N QZ AK 60°	
			555921	88.00	89.00	1.00	S9C Ank; Ank-3 Chl-2; 0.1% Po DI PER 0.1% Po AL VN; 2% I1N QZ AK 60°	
			555922	89.00	90.00	1.00	S9C Ank; Ank-3 Chl-2; 0.1% Po DI PER 0.1% Po AL VN; 2% I1N QZ AK 60°	
			555923	90.00	91.00	1.00	S9C Ank; Ank-3 Chl-2; 0.1% Po DI PER 0.1% Po AL VN; 2% I1N QZ AK 60°	
			555924	91.00	92.00	1.00	S9C Ank; Ank-3 Chl-2; 0.1% Po DI PER 0.1% Po AL VN; 2% I1N QZ AK 60°	
			555925	92.00	93.00	1.00	S9C Ank; Ank-3 Chl-2; 0.1% Po DI PER 0.1% Po AL VN; 2% I1N QZ AK 60°	
			555927	93.00	94.00	1.00	S9C Ank	
			555928	94.00	95.00	1.00	S9C Ank; Ank-5 Chl-4; 1% Po AL VN 0.5% Po DI PER; 30% I1N QZ AK 60°	
			555929	95.00	96.00	1.00	S9C Ank; Ank-5 Chl-4; 1% Po AL VN 0.5% Po DI PER; 30% I1N QZ AK 60°	
			555930	96.00	97.00	1.00	S9C Ank; Ank-5 Chl-4; 1% Po AL VN 0.5% Po DI PER; 30% I1N QZ AK 60°	
			555931	97.00	98.00	1.00	S9C Ank; Ank-5 Chl-4; 1% Po AL VN 0.5% Po DI PER; 30% I1N QZ AK 60°	
			555932	98.00	99.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN	
			555933	99.00	100.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°	
			555934	100.00	101.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°	
			555935	101.00	102.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°	
			555936	102.00	103.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°	
			555937	103.00	104.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°	
			555938	104.00	105.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°	
			555940	105.00	106.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°	
			555941	106.00	107.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°	
			555942	107.00	108.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°	
			555943	108.00	109.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°	
		555944	109.00	110.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°		
		555945	110.00	111.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°		
		555947	111.00	112.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°		
		555948	112.00	113.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°		
		555949	113.00	114.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°		
		555950	114.00	115.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°		
		555951	115.00	116.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°		
		555952	116.00	117.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°		
		555953	117.00	118.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°		
		555954	118.00	119.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°		
		555955	119.00	120.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°		
		555956	120.00	121.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°		
		555957	121.00	122.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°		

From	To	Lithology	Sample	From	To	Length	Comments
			555958	122.00	123.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°
			555960	123.00	124.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°
			555961	124.00	125.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°
			555962	125.00	126.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°
			555963	126.00	127.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°
			555964	127.00	128.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°
			555965	128.00	129.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°
			555967	129.00	129.50	0.50	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.5% Po DI VN; 2% I1N QZ AK 60°
129.50	131.00	<b>S6g, Grey Shale</b>	558653	129.50	131.00	1.50	S6g; Ank-1; 3% I1N QZ AK
<b>Comments:</b>							
131.00	159.60	<b>S9, Iron formation</b>	555968	131.00	132.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.1% Po DI VN; 2% I1N QZ AK 60°
			555969	132.00	133.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.1% Po DI VN; 2% I1N QZ AK 60°
<b>Comments:</b>							
			555970	133.00	134.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.1% Po DI VN; 2% I1N QZ AK 60°
			555971	134.00	135.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.1% Po DI VN; 2% I1N QZ AK 60°
			555972	135.00	136.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.1% Po DI VN; 2% I1N QZ AK 60°
			555973	136.00	137.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.1% Po DI VN; 2% I1N QZ AK 60°
			555974	137.00	138.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.1% Po DI VN; 2% I1N QZ AK 60°
			555975	138.00	139.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER 0.1% Po DI VN; 2% I1N QZ AK 60°
			555976	139.00	140.00	1.00	S9C Ank; Ank-5 Chl-5; 1.5% Po AL VN; 35% I1N QZ AK 45°
			555977	140.00	141.00	1.00	S9C Ank; Ank-5 Chl-5; 1.5% Po AL VN; 35% I1N QZ AK 45°
			555978	141.00	142.00	1.00	S9C Ank; Ank-5 Chl-5; 1.5% Po AL VN; 35% I1N QZ AK 45°
			555980	142.00	143.00	1.00	S9C Ank; Ank-5 Chl-5; 1.5% Po AL VN; 35% I1N QZ AK 45°
			555981	143.00	144.00	1.00	S9C Ank; Ank-5 Chl-5; 1.5% Po AL VN; 35% I1N QZ AK 45°
			555982	144.00	145.00	1.00	S9C Ank; Ank-5 Chl-5; 1.5% Po AL VN; 35% I1N QZ AK 45°
			555983	145.00	146.00	1.00	S9C Ank; Ank-5 Chl-5; 1.5% Po AL VN; 35% I1N QZ AK 45°
			555984	146.00	147.00	1.00	S9C Ank; Ank-5 Chl-5; 1.5% Po AL VN; 35% I1N QZ AK 45°
			555985	147.00	148.00	1.00	S9C Ank; Ank-5 Chl-5; 1.5% Po AL VN; 35% I1N QZ AK 45°
			555987	148.00	149.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER; 2% I1N QZ AK 75°
			555988	149.00	150.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER; 2% I1N QZ AK 75°
			555989	150.00	151.00	1.00	S9C Ank; Ank-3 Chl-1; 0.1% Po DI PER; 2% I1N QZ AK 75°
			555990	151.00	152.00	1.00	S9C Ank; Ank-5 Chl-5; 4% Po AL PER 2% Po AL VN; 80% I1N QZ AK 10°
			555991	152.00	153.00	1.00	S9C Ank; Ank-5 Chl-5; 4% Po AL PER 2% Po AL VN; 80% I1N QZ AK 10°
			555992	153.00	154.00	1.00	S9C Ank; Ank-5 Chl-5; 4% Po AL PER 2% Po AL VN; 80% I1N QZ AK 10°
			555993	154.00	155.00	1.00	S9C Ank; Ank-5 Chl-5; 4% Po AL PER 2% Po AL VN; 80% I1N QZ AK 10°
			555994	155.00	156.00	1.00	S9C Ank; Ank-5 Chl-5; 4% Po AL PER 2% Po AL VN; 80% I1N QZ AK 10°
			555995	156.00	157.00	1.00	S9C Ank; Ank-5 Chl-5; 4% Po AL PER 2% Po AL VN; 80% I1N QZ AK 10°
			555996	157.00	158.00	1.00	S9C Ank
			555997	158.00	159.00	1.00	S9C Ank; 0.1% Po DI PER
			555998	159.00	159.60	0.60	S9C Ank; 0.1% Po DI PER

From	To	Lithology	Sample	From	To	Length	Comments
159.60	166.00	S6g, Grey Shale	558654	159.60	161.00	1.40	S6g; 4% Po SS BD
			558655	161.00	163.00	2.00	S6g; 4% Po SS BD
<b>Comments:</b>			558657	163.00	165.00	2.00	S6g; 4% Po SS BD
			558658	165.00	166.00	1.00	S6g; 4% Po SS BD

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
1.00	335.20	-44.00	FM	Test Non-OK	
4.00	335.20	-44.00	FM	Test Non-OK	
7.00	329.70	-44.10	FM	Test Non-OK	
10.00	269.30	-44.10	FM	Test OK-Accept	
13.00	268.90	-44.10	FM	Test OK-Accept	
16.00	270.50	-43.40	FM	Test Non-OK	
19.00	268.40	-44.30	FM	Test OK-Accept	
22.00	268.30	-44.40	FM	Test OK-Accept	
25.00	268.10	-44.40	FM	Test OK-Accept	
28.00	268.50	-44.50	FM	Test OK-Accept	
31.00	197.10	-65.30	FM	Test Non-OK	
34.00	268.70	-44.70	FM	Test OK-Accept	
37.00	265.90	-44.80	FM	Test Non-OK	
40.00	256.70	-47.60	FM	Test Non-OK	
43.00	262.80	-44.90	FM	Test Non-OK	
46.00	273.20	-43.70	FM	Test Non-OK	
49.00	268.50	-44.90	FM	Test OK-Accept	
52.00	278.60	-42.50	FM	Test Non-OK	
55.00	269.10	-44.60	FM	Test OK-Accept	
58.00	269.60	-44.70	FM	Test Non-OK	
61.00	268.30	-45.00	FM	Test OK-Accept	
64.00	268.40	-44.90	FM	Test OK-Accept	
67.00	258.80	-47.10	FM	Test Non-OK	
70.00	265.80	-44.90	FM	Test Non-OK	
73.00	268.10	-44.90	FM	Test OK-Accept	
76.00	296.90	-33.70	FM	Test Non-OK	
79.00	268.20	-44.90	FM	Test OK-Accept	
82.00	267.90	-44.90	FM	Test OK-Accept	
85.00	268.10	-44.80	FM	Test OK-Accept	
88.00	268.00	-44.90	FM	Test OK-Accept	
91.00	268.10	-44.80	FM	Test OK-Accept	
94.00	267.60	-44.80	FM	Test OK-Accept	
97.00	267.80	-44.80	FM	Test OK-Accept	
100.00	267.40	-44.80	FM	Test OK-Accept	
103.00	267.70	-44.80	FM	Test OK-Accept	
106.00	267.60	-44.70	FM	Test OK-Accept	
109.00	264.30	-45.60	FM	Test Non-OK	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
112.00	267.90	-44.70	FM	Test OK-Accept	
115.00	268.00	-44.70	FM	Test OK-Accept	
118.00	267.90	-44.70	FM	Test OK-Accept	
121.00	267.80	-44.70	FM	Test OK-Accept	
124.00	267.90	-44.60	FM	Test OK-Accept	
127.00	259.10	-46.70	FM	Test Non-OK	
130.00	267.70	-44.70	FM	Test OK-Accept	
133.00	282.30	-40.50	FM	Test Non-OK	
136.00	268.30	-44.70	FM	Test Non-OK	
139.00	267.50	-44.80	FM	Test OK-Accept	
142.00	267.60	-44.80	FM	Test OK-Accept	
145.00	267.40	-44.70	FM	Test OK-Accept	
148.00	267.50	-44.70	FM	Test OK-Accept	
151.00	325.80	38.90	FM	Test Non-OK	
154.00	267.90	-44.70	FM	Test OK-Accept	
157.00	267.50	-44.80	FM	Test OK-Accept	
160.00	267.70	-44.80	FM	Test OK-Accept	
163.00	267.80	-44.80	FM	Test OK-Accept	
166.00	267.90	-44.80	FM	Test OK-Accept	

Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
9.40	21.00	I3A	HJ	POR	FO	MA	I3A Chl-Cal			VM		1	MG			BC	
21.00	59.65	S6g	HJ	LA			S6g			GM		1	Aph			DIF	
59.65	67.30	I3A	HJ	POR	FO	MA	I3A Chl-Cal			VM		1	MG		60.00	SHP	
67.30	73.35	S9	HK	FO	BD	BX	S9C Sid	6.00	Oxyde	VM	GM	3	FG		70.00	SHP	
73.35	77.80	S9	BX	MA	DT		S10C			GL		3	Aph		70.00	SHP	
77.80	80.30	S9	HK	FO	BD	BX	S9C Sid	6.00	Oxyde	VM	GM	3	FG		65.00	SHP	
80.30	80.80	S6	HJ	LA			S6			BK		1	Aph				
80.80	129.50	S9	HK	FO	BD	BX	S9C Ank	8.00	Silica	GM	VM	3	FG		60.00	SHP	
129.50	131.00	S6g	HJ	LA	BD		S6g			GM	VM	3	FG		60.00	SHP	
131.00	159.60	S9	HK	BD	FO	BX	S9C Ank			GM	VM	3	FG		60.00	VN	
159.60	166.00	S6g	HJ	LA			S6g			GD		1	Aph				

Mineralization Data																		
From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3	
21.00	59.65		Po	0.10	SS	BD		Po	0.10	DI	VN							
66.00	67.00		Po	1.00	SS	SCH												
67.30	73.35		Po	0.10	DI	PER		Po	1.00	AL	VN							
73.35	77.80		Po	5.00	AL	PER		Po	0.50	AL	VN							
77.80	80.30		Po	0.10	DI	PER		Po	1.00	AL	VN							
80.30	80.80		Po	20.00	SS	BD		Py	0.50	DI	BD							
80.80	93.30		Po	0.10	DI	PER		Po	0.10	AL	VN							
93.30	98.00		Po	1.00	AL	VN		Po	0.50	DI	PER							
98.00	129.50		Po	0.10	DI	PER		Po	0.50	DI	VN							
131.00	139.00		Po	0.10	DI	PER		Po	0.10	DI	VN							
139.00	148.00		Po	1.50	AL	VN												
148.00	151.00		Po	0.10	DI	PER												
151.00	157.10		Po	4.00	AL	PER		Po	2.00	AL	VN							
157.10	159.60		Po	0.10	DI	PER												
159.60	166.00		Po	4.00	SS	BD												



Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
9.40	21.00	CC	4	VN	CC	1	PEN	Ank	1	PEN	
21.00	59.65	CC	4	VN	CC	1	PEN				
59.65	67.30	CC	4	VN	CC	1	PEN				
67.30	73.35	Ank	2	PEN	Chl	3	AN	Ank	2	VN	
73.35	77.80	Ank	5	PEN	Chl	2	AN				
77.80	80.30	Ank	2	VN	Chl	1	PEN				
80.30	80.80	NO ALT									
80.80	93.30	Ank	3	VN	Chl	2	VN				
93.30	98.00	Ank	5	VN	Chl	4	VN				
98.00	129.50	Ank	3	VN	Chl	1	VN				
129.50	131.00	Ank	1	VN							
131.00	139.00	Ank	3	VN	Chl	1	VN				
139.00	148.00	Ank	5	VN	Chl	5	VN				
148.00	151.00	Ank	3	VN	Chl	1	VN				
151.00	157.10	Ank	5	VN	Chl	5	VN				

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
9.40	21.00	0.10		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00					60.00					
21.00	59.65	1.00		I1N	UNK	Veinlet <5cm	QZ	90.00	AK	10.00					90.00	Po	0.10			
59.65	67.30	2.00		I1N	UNK	Veinlet <5cm	QZ	50.00	CC	50.00					60.00					
67.30	73.35	3.00		I1N	UNK	Veinlet <5cm	QZ	70.00	AK	25.00	CL	5.00			70.00	Po	1.00			
73.35	77.80	10.00		I1N	UNK	Vein >5cm	QZ	90.00	AK	10.00					70.00	Po	3.00			
77.80	80.30	3.00		I1N	UNK	Veinlet <5cm	QZ	70.00	AK	35.00	CL	5.00			70.00	Po	1.00			
80.80	93.30	2.00		I1N	UNK	Veinlet <5cm	QZ	65.00	AK	20.00	CL	15.00			60.00	Po	0.10			
93.30	98.80	30.00		I1N	UNK	Vein >5cm	QZ	65.00	AK	30.00	CL	4.00			60.00	Po	1.00			
98.80	129.50	2.00		I1N	UNK	Veinlet <5cm	QZ	80.00	AK	10.00	CL	10.00			60.00	Po	0.10			
129.50	131.00	3.00		I1N	UNK	Veinlet <5cm	QZ	90.00	AK	10.00										
131.00	139.00	2.00		I1N	UNK	Veinlet <5cm	QZ	80.00	AK	10.00	CL	10.00			60.00	Po	0.10			
139.00	148.00	35.00		I1N	UNK	Vein >5cm	QZ	50.00	AK	30.00	CL	20.00			45.00	Po	1.50			
148.00	151.00	2.00		I1N	UNK	Veinlet <5cm	QZ	85.00	AK	10.00	CL	5.00			75.00	Po	0.10			
151.00	157.10	80.00		I1N	UNK	Vein >5cm	QZ	45.00	AK	45.00	CL	10.00			10.00	Po	4.00			

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments

Oriented Structure Data													
Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
23.70	S0		75.00										
34.00	S2		75.00	0.00	257.72	-47.15	-57.85	347.72	0.00	77.72			
34.80	S0		79.00	200.00	259.75	-46.25	-33.58	342.97	0.00	72.97			
38.80	S2		50.00	340.00	272.42	-43.90	-84.49	349.66	0.00	79.66			
39.00	S0		70.00	190.00	272.42	-43.90	-26.58	354.79	0.00	84.79			
39.30	VN		75.00	230.00	271.63	-44.10	-37.66	342.70	0.00	72.70			
43.20	S2		57.00	330.00	276.92	-42.90	-76.97	350.69	0.00	80.69			
43.80	S0		79.00	180.00	277.02	-42.85	-36.15	7.02	0.00	97.02			
48.80	S0		75.00	200.00	269.38	-44.75	-31.49	349.63	0.00	79.63			
51.90	S2		65.00	300.00	270.50	-43.40	-62.02	336.02	0.00	66.02			
58.30	S0		70.00										
65.80	S1		73.00	300.00	272.98	-43.03	-56.92	345.40	0.00	75.40			
68.13	S0		73.00										
73.35	S0		70.00										
79.00	S0		65.00	280.00	267.63	-44.80	-54.09	326.71	0.00	56.71			
80.20	VN		75.00	270.00	267.73	-44.80	-47.11	337.05	0.00	67.05			
85.50	S0		63.00	220.00	267.60	-44.80	-29.00	320.59	0.00	50.59			
90.20	S0		65.00	260.00	265.40	-45.30	-45.91	319.99	0.00	49.99			
95.00			55.00	290.00	267.95	-44.70	-64.10	321.14	0.00	51.14	95.00	FAXIS	
95.00	AxialPlane		55.00	290.00	267.95	-44.70	-64.10	321.14	0.00	51.14			
96.30	VN		60.00	290.00	267.98	-44.70	-60.82	325.43	0.00	55.43			
103.20	S0		60.00	270.00	267.88	-44.62	-52.54	318.84	0.00	48.84			
104.40	VN		20.00	345.00	264.97	-45.30	-66.71	159.61	0.00	249.61			
112.80	VN		35.00	358.00	272.97	-43.30	-78.32	181.29	0.00	271.29			
112.95	S0		48.00	252.00	272.97	-43.30	-48.69	305.06	0.00	35.06			
114.40	VN		40.00	360.00	268.03	-44.73	-84.73	178.03	0.00	268.03			
117.35	S0		60.00	245.00	267.55	-44.80	-40.52	313.33	0.00	43.33			
118.10	VN		40.00	250.00	267.58	-44.80	-50.29	288.25	0.00	18.25			
119.90	S0		35.00	255.00	267.50	-44.75	-56.33	285.57	0.00	15.57			
128.40	S0		45.00	225.00	277.55	-30.77	-37.69	312.68	0.00	42.68			
129.50	CNT		45.00										
136.25	S0		42.00	250.00	267.82	-44.80	-49.32	290.77	0.00	20.77			
138.50	VN		55.00	235.00	267.88	-44.80	-35.84	304.52	0.00	34.52			
144.12	S0		40.00	195.00	267.90	-44.80	-12.05	249.67	0.00	339.67			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
144.35	VN		50.00	5.00	267.90	-44.80	-85.10	1.12	0.00	91.12			
147.50	VN		50.00	340.00	267.90	-44.80	-83.62	345.12	0.00	75.12			
153.10	VN		5.00										
155.90	VN		35.00										
157.40	VN		60.00	360.00	267.90	-44.80	-75.20	357.90	0.00	87.90			
159.20	S0		15.00	170.00	267.90	-44.80	-30.98	158.88	0.00	248.88			
162.20	S0		10.00	142.00	267.90	-44.80	-47.70	122.84	0.00	212.84			
162.80	S2		65.00	240.00	267.90	-44.80	-37.95	321.38	0.00	51.38			
165.85	VN		35.00	190.00	267.90	-44.80	-12.43	219.28	0.00	309.28			

Sample Data - ASSAY

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558619	9.40	11.00	1.60	2	VO18239166 - Finalized	11/10/2018	0.003	0.130	22.80	179.00	8.59	1,260.0	0.038	310.00	0.51	142.00	93.00
558620	11.00	13.00	2.00	2	VO18239166 - Finalized	11/10/2018	0.001	0.060	16.90	150.50	8.94	1,500.0	0.042	308.00	0.20	180.50	93.00
558621	13.00	15.00	2.00	2	VO18239166 - Finalized	11/10/2018	0.001	0.090	15.30	168.50	9.46	1,540.0	0.029	352.00	0.21	151.50	101.00
558622	15.00	17.00	2.00	2	VO18239166 - Finalized	11/10/2018	0.001	0.080	20.60	153.50	9.31	1,480.0	0.020	326.00	0.28	151.50	102.00
558623	17.00	19.00	2.00	2	VO18239166 - Finalized	11/10/2018	0.001	0.070	16.30	146.00	8.76	1,420.0	0.011	325.00	0.27	122.00	97.00
558624	19.00	21.00	2.00	2	VO18239166 - Finalized	11/10/2018	0.001	0.090	40.60	168.50	10.50	1,860.0	0.014	367.00	0.20	137.00	123.00
558625	21.00	23.00	2.00	2	VO18239166 - Finalized	11/10/2018	0.001	0.020	8.00	39.10	6.22	1,220.0	0.007	103.00	0.52	41.00	61.00
558626	23.00	25.00	2.00	2	VO18239166 - Finalized	11/10/2018	0.001	0.050	0.90	19.00	4.30	518.0	0.009	71.00	0.21	30.00	66.00
558627	25.00	27.00	2.00	2	VO18239166 - Finalized	11/10/2018	0.001	0.130	24.20	77.90	6.68	995.0	0.008	153.00	0.19	86.30	87.00
558628	27.00	29.00	2.00	2	VO18239166 - Finalized	11/10/2018	0.002	0.140	44.70	104.00	9.42	1,340.0	0.014	193.00	0.24	118.00	132.00
558630	29.00	31.00	2.00	2	VO18239166 - Finalized	11/10/2018	0.008	0.090	1.00	57.80	7.31	303.0	0.003	87.00	0.51	33.10	86.00
558631	31.00	33.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.012	0.400	0.80	68.40	5.20	216.0	0.019	124.00	2.17	38.30	89.00
558632	33.00	35.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.007	0.310	23.70	48.80	3.85	187.0	0.022	88.00	2.76	43.00	68.00
558633	35.00	37.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.004	0.190	1.50	41.00	3.21	260.0	0.029	111.00	3.31	36.70	69.00
558634	37.00	39.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.003	0.330	1.60	37.20	2.84	169.0	0.026	107.00	2.73	35.50	79.00
558635	39.00	41.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.004	0.200	0.20	37.20	2.94	260.0	0.026	125.00	3.93	40.10	85.00
558637	41.00	43.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.004	0.190	5.30	43.70	3.48	432.0	0.030	121.00	3.48	49.00	108.00
558638	43.00	45.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.003	0.170	0.70	40.70	3.03	297.0	0.020	121.00	3.68	42.30	86.00
558639	45.00	47.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.003	0.140	9.40	53.10	3.86	491.0	0.023	140.00	3.24	51.60	79.00
558640	47.00	49.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.006	0.210	14.80	68.80	6.63	656.0	0.020	94.00	1.98	38.30	85.00
558641	49.00	51.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.005	0.120	0.80	66.20	6.26	419.0	0.032	73.00	0.53	33.50	167.00
558642	51.00	53.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.002	0.090	1.70	35.70	5.35	255.0	0.003	79.00	0.40	33.30	69.00
558643	53.00	55.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.001	0.060	2.00	26.80	5.19	238.0	0.005	79.00	0.30	30.90	68.00
558644	55.00	57.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.001	0.070	3.90	26.30	4.65	205.0	0.003	93.00	0.47	33.50	73.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558645	57.00	59.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.003	0.150	3.20	62.80	4.80	277.0	0.030	130.00	2.21	38.60	160.00
558646	59.00	59.65	0.65	2	VO18239175 - Finalized	10/10/2018	0.012	0.250	4.60	74.80	6.81	479.0	0.093	271.00	4.96	59.60	340.00
558647	59.65	61.00	1.35	2	VO18239175 - Finalized	10/10/2018	0.001	0.130	27.80	102.00	8.35	1,290.0	0.020	293.00	1.83	90.40	119.00
558648	61.00	63.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.001	0.160	31.20	139.00	8.78	1,420.0	0.026	322.00	0.21	123.00	95.00
558650	63.00	65.00	2.00	2	VO18239175 - Finalized	10/10/2018	0.003	0.100	15.00	121.50	8.84	1,220.0	0.017	337.00	0.20	103.50	88.00
558651	65.00	67.00	2.00	2	VO18244230 - Finalized	19/10/2018	0.036	0.090	25.60	94.30	10.30	743.0	0.019	325.00	0.77	81.10	87.00
558652	67.00	67.30	0.30	2	VO18244230 - Finalized	19/10/2018	0.004	0.040	0.90	44.80	13.30	1,800.0	0.060	176.00	1.78	44.50	109.00
555896	67.30	68.00	0.70	2	VO18236845 - Finalized	03/10/2018	0.001	0.040	0.70	15.90	19.15	19,250.0	0.058	86.00	1.24	16.60	27.00
555897	68.00	69.00	1.00	2	VO18236845 - Finalized	03/10/2018	0.001	0.020	0.90	5.20	17.70	13,700.0	0.011	55.00	0.34	9.40	12.00
555898	69.00	70.00	1.00	2	VO18236845 - Finalized	03/10/2018	0.001	0.010	1.50	9.80	18.65	12,750.0	0.005	51.00	0.36	9.60	11.00
555900	70.00	71.00	1.00	2	VO18236845 - Finalized	03/10/2018	0.001	0.010	11.10	8.80	19.20	16,150.0	0.003	41.00	0.64	11.80	15.00
555901	71.00	72.00	1.00	2	VO18236847 - Finalized	04/10/2018	0.024	0.030	0.80	10.50	19.70	9,750.0	0.007	51.00	0.63	12.50	15.00
555902	72.00	73.00	1.00	2	VO18236847 - Finalized	04/10/2018	0.001	0.020	4.50	5.50	16.90	9,850.0	0.006	23.00	0.62	5.50	9.00
555903	73.00	73.35	0.35	2	VO18236847 - Finalized	04/10/2018	0.001	0.020	2.60	1.70	19.05	10,050.0	0.003	20.00	0.35	5.70	10.00
555904	73.35	74.00	0.65	2	VO18236847 - Finalized	04/10/2018	0.323	0.090	0.50	8.30	25.30	8,260.0	0.008	16.00	0.50	2.70	23.00
555905	74.00	75.00	1.00	2	VO18236847 - Finalized	04/10/2018	0.014	0.350	1.60	28.80	26.50	6,550.0	0.020	7.00	1.59	4.00	16.00
555907	75.00	76.00	1.00	2	VO18236847 - Finalized	04/10/2018	0.006	0.260	7.70	23.50	25.20	11,200.0	0.013	5.00	1.02	4.20	12.00
555908	76.00	77.00	1.00	2	VO18236847 - Finalized	04/10/2018	0.006	0.420	4.70	42.20	27.50	11,300.0	0.024	6.00	1.64	5.50	16.00
555909	77.00	77.80	0.80	2	VO18236847 - Finalized	04/10/2018	0.003	0.030	51.40	3.00	18.20	7,750.0	0.008	12.00	0.27	3.20	13.00
555910	77.80	79.00	1.20	2	VO18236847 - Finalized	04/10/2018	0.002	0.030	4.30	3.80	22.20	10,200.0	0.003	13.00	0.48	3.70	7.00
555911	79.00	80.30	1.30	2	VO18236847 - Finalized	04/10/2018	0.001	0.040	1.30	11.70	18.40	6,980.0	0.008	19.00	0.40	7.20	18.00
555912	80.30	80.80	0.50	2	VO18236847 - Finalized	04/10/2018	0.054	0.760	66.20	128.00	18.95	121.0	0.281	97.00	10.65	83.50	372.00
555913	80.80	82.00	1.20	2	VO18236847 - Finalized	04/10/2018	0.001	0.110	144.00	26.30	16.55	5,490.0	0.019	20.00	0.80	11.70	17.00
555914	82.00	83.00	1.00	2	VO18236847 - Finalized	04/10/2018	0.001	0.020	6.80	1.90	19.20	5,060.0	0.003	11.00	0.20	2.20	7.00
555915	83.00	84.00	1.00	2	VO18236847 - Finalized	04/10/2018	0.001	0.020	4.90	2.70	18.25	5,520.0	0.003	18.00	0.36	4.00	7.00
555916	84.00	85.00	1.00	2	VO18236847 - Finalized	04/10/2018	0.001	0.030	6.60	5.80	17.55	4,790.0	0.003	27.00	0.54	13.60	7.00
555917	85.00	86.00	1.00	2	VO18236847 - Finalized	04/10/2018	0.001	0.040	6.10	2.40	22.50	6,110.0	0.003	27.00	0.49	3.90	9.00
555918	86.00	87.00	1.00	2	VO18236847 - Finalized	04/10/2018	0.001	0.060	3.20	4.40	19.55	5,570.0	0.003	19.00	0.32	3.90	11.00
555920	87.00	88.00	1.00	2	VO18236847 - Finalized	04/10/2018	0.001	0.030	9.10	3.20	20.10	7,010.0	0.003	21.00	0.44	4.20	6.00
555921	88.00	89.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.001	0.090	5.70	4.10	21.40	5,680.0	0.003	21.00	0.36	2.80	8.00
555922	89.00	90.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.001	0.060	4.80	4.70	19.55	6,230.0	0.003	21.00	0.43	3.20	7.00
555923	90.00	91.00	1.00	2	VO18236851 - Finalized	02/10/2018	1.700	0.170	8.70	7.20	16.35	4,290.0	0.013	24.00	0.53	4.20	12.00
555924	91.00	92.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.081	0.010	3.40	2.60	15.95	4,090.0	0.006	10.00	0.19	2.40	5.00
555925	92.00	93.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.001	0.020	3.60	1.00	17.20	4,380.0	0.003	10.00	0.15	2.00	4.00
555927	93.00	94.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.673	0.020	2.30	4.30	13.50	4,210.0	0.028	12.00	0.27	2.10	6.00
555928	94.00	95.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.008	0.010	3.70	3.50	16.85	4,930.0	0.003	19.00	0.44	3.00	8.00
555929	95.00	96.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.007	0.030	9.60	12.00	21.00	5,230.0	0.007	35.00	0.83	6.90	10.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
555930	96.00	97.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.001	0.020	6.40	7.60	20.70	5,020.0	0.008	36.00	0.87	5.30	7.00
555931	97.00	98.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.001	0.010	4.40	2.70	24.00	6,490.0	0.003	21.00	0.29	2.60	9.00
555932	98.00	99.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.001	0.010	4.10	3.50	20.70	6,560.0	0.003	18.00	0.23	2.80	6.00
555933	99.00	100.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.001	0.010	8.20	2.90	21.50	9,140.0	0.011	25.00	0.46	3.50	7.00
555934	100.00	101.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.009	0.010	2.60	1.60	21.70	9,870.0	0.027	16.00	0.40	3.40	6.00
555935	101.00	102.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.001	0.010	2.00	1.10	23.00	9,450.0	0.017	13.00	0.28	2.70	5.00
555936	102.00	103.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.001	0.010	4.70	1.40	22.00	8,430.0	0.012	14.00	0.22	2.70	5.00
555937	103.00	104.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.201	0.010	6.60	5.20	23.90	9,160.0	0.023	17.00	0.21	3.40	10.00
555938	104.00	105.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.002	0.010	3.20	2.40	19.80	9,100.0	0.007	13.00	0.34	2.50	8.00
555940	105.00	106.00	1.00	2	VO18236851 - Finalized	02/10/2018	0.002	0.010	5.50	2.40	23.40	10,600.0	0.020	13.00	0.37	2.90	7.00
555941	106.00	107.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.949	0.340	10.40	29.00	25.30	9,140.0	0.080	13.00	0.17	2.90	13.00
555942	107.00	108.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.022	0.010	12.90	7.30	24.80	7,540.0	0.003	16.00	0.22	3.50	15.00
555943	108.00	109.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.122	0.040	5.00	19.20	18.55	5,970.0	0.020	12.00	0.14	2.50	15.00
555944	109.00	110.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.243	0.220	3.90	7.40	22.70	8,180.0	0.016	11.00	0.11	2.40	10.00
555945	110.00	111.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.043	0.010	7.90	2.60	21.60	7,770.0	0.008	9.00	0.15	1.90	7.00
555947	111.00	112.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.003	0.020	14.00	8.30	18.00	7,870.0	0.031	13.00	0.35	3.30	8.00
555948	112.00	113.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.013	0.020	21.60	5.70	19.10	9,010.0	0.016	14.00	0.37	3.60	15.00
555949	113.00	114.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.257	0.010	6.20	2.20	19.40	7,270.0	0.013	10.00	0.16	1.80	9.00
555950	114.00	115.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.004	0.020	6.20	6.20	17.35	6,530.0	0.011	13.00	0.15	1.80	13.00
555951	115.00	116.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.147	0.010	25.50	9.50	23.10	8,240.0	0.006	11.00	0.11	2.20	13.00
555952	116.00	117.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.226	0.040	13.30	9.90	22.90	12,900.0	0.068	41.00	1.36	10.10	20.00
555953	117.00	118.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.003	0.070	6.00	15.90	19.25	12,500.0	0.003	26.00	0.73	10.90	14.00
555954	118.00	119.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.002	0.060	13.10	13.90	19.80	12,650.0	0.010	45.00	0.75	11.70	14.00
555955	119.00	120.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.029	0.020	11.20	5.90	19.70	10,050.0	0.017	35.00	0.29	7.30	12.00
555956	120.00	121.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.004	0.030	6.20	3.20	22.80	10,900.0	0.008	22.00	0.43	3.50	8.00
555957	121.00	122.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.001	0.010	13.50	5.00	19.95	13,350.0	0.007	30.00	0.82	7.40	11.00
555958	122.00	123.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.001	0.190	4.90	26.10	19.20	12,350.0	0.003	25.00	1.07	12.90	21.00
555960	123.00	124.00	1.00	2	VO18236852 - Finalized	02/10/2018	0.001	0.040	11.50	7.30	19.05	14,950.0	0.003	24.00	0.58	6.40	61.00
555961	124.00	125.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.029	0.030	11.30	10.70	19.60	14,000.0	0.003	53.00	0.98	13.60	23.00
555962	125.00	126.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.008	0.020	5.60	7.90	20.90	12,250.0	0.003	44.00	0.39	9.00	13.00
555963	126.00	127.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.083	0.130	6.20	10.40	19.20	11,750.0	0.008	38.00	0.33	9.20	11.00
555964	127.00	128.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.001	0.020	0.80	9.60	20.90	14,200.0	0.003	66.00	0.39	13.20	15.00
555965	128.00	129.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.002	0.010	1.30	6.30	16.40	12,050.0	0.003	53.00	0.33	9.20	11.00
555967	129.00	129.50	0.50	2	VO18236854 - Finalized	03/10/2018	0.002	0.020	0.50	12.50	19.45	12,500.0	0.005	87.00	0.42	13.00	19.00
558653	129.50	131.00	1.50	2	VO18244230 - Finalized	19/10/2018	0.005	0.140	7.80	25.60	12.60	1,880.0	0.031	180.00	2.32	42.10	110.00
555968	131.00	132.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.001	0.040	14.00	39.60	11.05	4,700.0	0.022	154.00	1.38	45.70	81.00
555969	132.00	133.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.001	0.030	1.90	7.90	14.55	11,600.0	0.016	66.00	0.38	12.60	13.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
555970	133.00	134.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.005	0.040	2.00	15.20	22.20	16,350.0	0.016	126.00	0.51	21.80	22.00
555971	134.00	135.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.002	0.020	2.00	10.00	15.05	11,850.0	0.005	54.00	0.40	11.70	13.00
555972	135.00	136.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.001	0.020	9.40	7.00	20.70	13,450.0	0.013	60.00	0.46	11.40	15.00
555973	136.00	137.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.780	0.120	3.80	20.20	21.30	11,550.0	0.034	40.00	0.29	13.80	14.00
555974	137.00	138.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.001	0.050	9.50	10.80	21.30	13,650.0	0.007	65.00	0.61	11.50	20.00
555975	138.00	139.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.001	0.020	11.60	7.70	21.60	15,800.0	0.010	73.00	1.01	13.40	29.00
555976	139.00	140.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.005	0.100	4.80	27.90	16.30	8,900.0	0.012	34.00	1.15	23.70	25.00
555977	140.00	141.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.020	0.140	9.10	42.20	14.80	7,160.0	0.012	23.00	1.38	24.60	21.00
555978	141.00	142.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.001	0.050	9.40	4.90	17.05	11,650.0	0.007	34.00	1.53	11.10	36.00
555980	142.00	143.00	1.00	2	VO18236854 - Finalized	03/10/2018	0.001	0.020	16.30	4.70	18.25	11,050.0	0.006	37.00	1.49	10.10	40.00
555981	143.00	144.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.195	0.050	39.50	12.40	23.80	12,400.0	0.017	62.00	1.45	18.20	41.00
555982	144.00	145.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.004	0.080	9.60	36.20	15.75	9,660.0	0.018	24.00	0.87	8.50	20.00
555983	145.00	146.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.032	0.040	27.60	36.00	19.35	12,600.0	0.011	34.00	1.10	11.80	28.00
555984	146.00	147.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.168	0.090	5.90	61.10	15.35	10,750.0	0.016	6.00	0.40	10.80	10.00
555985	147.00	148.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.145	0.170	3.90	90.80	16.05	10,600.0	0.064	19.00	0.69	16.40	20.00
555987	148.00	149.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.083	0.040	4.40	19.60	19.10	13,900.0	0.024	31.00	0.76	7.30	26.00
555988	149.00	150.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.098	0.020	10.20	8.10	12.90	9,990.0	0.019	10.00	0.45	3.80	14.00
555989	150.00	151.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.293	0.100	4.40	13.90	15.90	11,450.0	0.028	24.00	0.65	5.90	22.00
555990	151.00	152.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.017	0.050	5.30	11.10	9.89	6,530.0	0.024	8.00	0.76	3.10	12.00
555991	152.00	153.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.007	0.280	21.30	107.00	14.20	5,410.0	0.029	9.00	1.12	6.60	10.00
555992	153.00	154.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.026	0.080	9.90	23.50	9.28	5,160.0	0.015	9.00	0.72	2.90	11.00
555993	154.00	155.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.002	0.080	7.60	20.40	12.25	7,040.0	0.031	17.00	0.98	6.10	15.00
555994	155.00	156.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.001	0.020	3.60	6.20	18.00	11,700.0	0.017	44.00	1.29	8.30	24.00
555995	156.00	157.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.001	0.030	11.40	8.60	21.40	13,900.0	0.007	47.00	1.50	10.40	27.00
555996	157.00	158.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.115	0.020	13.80	9.60	25.60	17,050.0	0.030	46.00	0.86	10.40	33.00
555997	158.00	159.00	1.00	2	VO18244251 - Finalized	08/10/2018	0.002	0.020	31.10	3.60	22.00	15,000.0	0.025	42.00	0.64	9.70	32.00
555998	159.00	159.60	0.60	2	VO18244251 - Finalized	08/10/2018	0.214	0.040	0.40	17.00	18.65	15,200.0	0.036	38.00	0.70	9.10	28.00
558654	159.60	161.00	1.40	2	VO18244230 - Finalized	19/10/2018	0.013	0.140	3.20	23.10	13.40	5,060.0	0.032	208.00	2.53	46.10	122.00
558655	161.00	163.00	2.00	2	VO18244230 - Finalized	19/10/2018	0.009	0.100	0.50	25.80	10.35	8,990.0	0.012	123.00	1.73	39.60	165.00
558657	163.00	165.00	2.00	2	VO18244230 - Finalized	19/10/2018	0.033	0.150	1.00	50.30	9.84	5,830.0	0.083	144.00	2.08	39.50	273.00
558658	165.00	166.00	1.00	2	VO18244230 - Finalized	19/10/2018	0.008	0.170	0.20	62.80	8.07	1,360.0	0.334	233.00	5.34	55.60	664.00



## Detailed Log Report

### Hole Number OSK-KAN-18-027

Project		Coordinates		Collar	
<b>Project Name:</b>	KAN	<b>Primary Coordinates Grid:</b>	UTM83-19	<b>Collar Dip:</b>	45.00 <b>Collar Az:</b> 305.00
<b>Core Location:</b>	Kan Camp	<b>North:</b>	6 368 306.00	<b>Length:</b>	214.00 <b>Hole Size:</b> NQ
<b>Start Date:</b>	September 17, 2018	<b>East:</b>	486 531.00	<b>Hole Type:</b>	DDH <b>Surveyed:</b> N
<b>Completed Date:</b>	September 19, 2018	<b>Elev:</b>	122.00	<b>Casing Length:</b>	1.70 <b>Pulled:</b> N
<b>Contractor:</b>	Avataa-Rouiller Drilling			<b>Capped:</b>	Y <b>Making Water:</b> N
<b>Logger 1:</b>	Simon Hebert			<b>Multi Shot:</b>	Y <b>Section:</b> N.A.
<b>Target:</b>	150			<b>Claims Title:</b>	2099198 <b>Township:</b> Kan
<b>Area:</b>	SURFACE			<b>NTS:</b>	24F06 <b>Log Complete:</b> Y
<b>Surveyor:</b>	NA			<b>Left In Hole:</b>	Casing

#### Detailed Lithology

From	To	Lithology	Sample	From	To	Length	Comments
0.00	1.70	OVB, Overburden					
<b>Comments:</b>							



From	To	Lithology	Sample	From	To	Length	Comments
1.70	35.80	S9, Iron formation	556000	1.70	3.00	1.30	S9C Ank; Ank-2; 2% Po DI VN 0.1% Po DI PER; 3% I1N QZ AK 45°
			556001	3.00	4.00	1.00	S9C Ank; Ank-2; 2% Po DI VN 0.1% Po DI PER; 3% I1N QZ AK 45°
			556002	4.00	5.00	1.00	S9C Ank; Ank-2; 2% Po DI VN 0.1% Po DI PER; 3% I1N QZ AK 45°
			556003	5.00	6.00	1.00	S9C Ank; Ank-2; 2% Po DI VN 0.1% Po DI PER; 3% I1N QZ AK 45°
			556004	6.00	7.00	1.00	S9C Ank; Ank-2; 2% Po DI VN 0.1% Po DI PER; 3% I1N QZ AK 45°
			556005	7.00	8.00	1.00	S9C Ank; Ank-2; 2% Po DI VN 0.1% Po DI PER; 3% I1N QZ AK 45°
			556007	8.00	9.00	1.00	S9C Ank; Ank-2; 2% Po DI VN 0.1% Po DI PER; 3% I1N QZ AK 45°
			556008	9.00	10.00	1.00	S9C Ank; Ank-2; 2% Po DI VN 0.1% Po DI PER; 3% I1N QZ AK 45°
			556009	10.00	11.00	1.00	S9C Ank; Ank-2; 2% Po DI VN 0.1% Po DI PER; 3% I1N QZ AK 45°
			556010	11.00	12.00	1.00	S9C Ank; Ank-2; 2% Po DI VN 0.1% Po DI PER; 3% I1N QZ AK 45°
			556011	12.00	13.00	1.00	S9C Ank; Ank-2; 2% Po DI VN 0.1% Po DI PER; 3% I1N QZ AK 45°
			556012	13.00	14.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556013	14.00	15.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556014	15.00	16.00	1.00	S9C Sid; Sil-4; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556015	16.00	17.00	1.00	S9C Sid; Sil-4; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556016	17.00	18.00	1.00	S9C Sid; Sil-4; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556017	18.00	19.00	1.00	S9C Sid; Sil-4; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556018	19.00	20.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556020	20.00	21.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556021	21.00	22.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556022	22.00	23.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556023	23.00	24.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556024	24.00	25.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556025	25.00	26.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556027	26.00	27.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556028	27.00	28.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556029	28.00	29.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556030	29.00	30.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556031	30.00	31.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556032	31.00	32.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556033	32.00	33.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556034	33.00	34.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556035	34.00	35.00	1.00	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°
			556036	35.00	35.80	0.80	S9C Sid; Ank-2; 0.1% Po DI PER; 5% I1N QZ CL 50°

Comments:

From	To	Lithology	Sample	From	To	Length	Comments
35.80	48.60	S6g, Grey Shale	558659	35.80	37.00	1.20	S6g; CC-5 Ank-3; 2% Po SS BD; 1% I1N QZ 60°
			558660	37.00	39.00	2.00	S6g; CC-5 Ank-3; 2% Po SS BD; 1% I1N QZ 60°
			558661	39.00	41.00	2.00	S6g; CC-5 Ank-3; 2% Po SS BD; 1% I1N QZ 60°
			558662	41.00	43.00	2.00	S6g; CC-5 Ank-3; 2% Po SS BD; 1% I1N QZ 60°
			558663	43.00	43.40	0.40	S6g; CC-5 Ank-3; 2% Po SS BD; 1% I1N QZ 60°
			558664	43.40	45.00	1.60	S6g; CC-5 Ank-3
			558665	45.00	47.00	2.00	S6g; CC-5 Ank-3; 0.1% Po DI PER; 5% I1N QZ CC 60°
			558666	47.00	48.60	1.60	S6g; CC-5 Ank-3; 0.1% Po DI PER; 5% I1N QZ CC 60°
48.60	50.00	I3A, Gabbro	558667	48.60	50.00	1.40	I3A Chl-Ank
50.00	54.40	S6g, Grey Shale	558668	50.00	52.00	2.00	S6g; NO ALT; 1% Po SS BD; 1% I1N QZ 70°
			558670	52.00	54.00	2.00	S6g; NO ALT; 1% Po SS BD; 1% I1N QZ 70°
			558671	54.00	54.40	0.40	S6g; NO ALT; 1% Po SS BD; 1% I1N QZ 70°
54.40	57.80	I3A, Gabbro	558672	54.40	56.00	1.60	I3A Chl-Ank; CC-1 Ank-5
			558673	56.00	57.75	1.75	I3A Chl-Ank; CC-1 Ank-5
			556037	57.75	59.00	1.25	

From	To	Lithology	Sample	From	To	Length	Comments	
57.80	123.60	S9, Iron formation	556038	59.00	60.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556040	60.00	61.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
<b>Comments:</b>			556041	61.00	62.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556042	62.00	63.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556043	63.00	64.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556044	64.00	65.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556045	65.00	66.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556047	66.00	67.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556048	67.00	68.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556049	68.00	69.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556050	69.00	70.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556051	70.00	71.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556052	71.00	72.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556053	72.00	73.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556054	73.00	74.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556055	74.00	75.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556056	75.00	76.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556057	76.00	77.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556058	77.00	78.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
			556060	78.00	79.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°	
		556061	79.00	80.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556062	80.00	81.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556063	81.00	82.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556064	82.00	83.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556065	83.00	84.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556067	84.00	85.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556068	85.00	86.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556069	86.00	87.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556070	87.00	88.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556071	88.00	89.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556072	89.00	90.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556073	90.00	91.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556074	91.00	92.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556075	92.00	93.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556076	93.00	94.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556077	94.00	95.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556078	95.00	96.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556080	96.00	97.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556081	97.00	98.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556082	98.00	99.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		
		556083	99.00	100.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°		

From	To	Lithology	Sample	From	To	Length	Comments
			556084	100.00	101.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556085	101.00	102.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556087	102.00	103.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556088	103.00	104.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556089	104.00	105.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556090	105.00	106.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556091	106.00	107.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556092	107.00	108.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556093	108.00	109.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556094	109.00	110.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556095	110.00	111.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556096	111.00	112.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556097	112.00	113.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556098	113.00	114.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556100	114.00	115.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556101	115.00	116.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556102	116.00	117.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556103	117.00	118.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556104	118.00	119.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556105	119.00	120.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556107	120.00	121.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556108	121.00	122.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556109	122.00	123.00	1.00	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°
			556110	123.00	123.60	0.60	S9C; Ank-1 Ank-1; 0.5% Po AL PER 0.1% Po DI VN; 5% I1N QZ CL 45°

From	To	Lithology	Sample	From	To	Length	Comments
123.60	214.00	S6, Mudrock	558674	123.60	125.00	1.40	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558675	125.00	127.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
<b>Comments:</b>			558677	127.00	129.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558678	129.00	131.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558679	131.00	133.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558680	133.00	135.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558681	135.00	137.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558682	137.00	139.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558683	139.00	141.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558684	141.00	143.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558685	143.00	145.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558686	145.00	147.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558687	147.00	149.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558688	149.00	151.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558690	151.00	153.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558691	153.00	155.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558692	155.00	157.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558693	157.00	159.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558694	159.00	161.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558695	161.00	163.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558697	163.00	165.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558698	165.00	167.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558699	167.00	169.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558700	169.00	171.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558701	171.00	173.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558702	173.00	175.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558703	175.00	177.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558704	177.00	179.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558705	179.00	181.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558706	181.00	183.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558707	183.00	185.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558708	185.00	187.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558710	187.00	189.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558711	189.00	191.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558712	191.00	193.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558713	193.00	195.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558714	195.00	197.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558715	197.00	199.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558717	199.00	201.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 0.1% I1N QZ 45°
			558718	201.00	203.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD
			558719	203.00	205.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 10% I1N QZ; FLD 5

From	To	Lithology	Sample	From	To	Length	Comments
			558720	205.00	207.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 10% I1N QZ; FLD 5
			558721	207.00	209.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 10% I1N QZ; FLD 5
			558722	209.00	211.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 10% I1N QZ; FLD 5
			558723	211.00	213.00	2.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 10% I1N QZ; FLD 5
			558724	213.00	214.00	1.00	S6 GP; 6% Po SS BD 4% Py SUB BD; 10% I1N QZ; FLD 5

## Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
4.00	300.20	-42.30	FM	Test Non-OK	
7.00	297.20	-42.40	FM	Test Non-OK	
10.00	300.00	-42.40	FM	Test Non-OK	
13.00	297.50	-42.30	FM	Test Non-OK	
16.00	303.60	-41.80	FM	Test OK-Accept	
19.00	305.50	-41.90	FM	Test Non-OK	
22.00	304.00	-42.40	FM	Test OK-Accept	
25.00	308.10	-42.30	FM	Test Non-OK	
28.00	303.90	-42.40	FM	Test OK-Accept	
31.00	303.40	-42.40	FM	Test OK-Accept	
34.00	303.40	-42.40	FM	Test OK-Accept	
37.00	303.80	-42.40	FM	Test OK-Accept	
40.00	291.70	-42.60	FM	Test Non-OK	
43.00	303.80	-42.60	FM	Test OK-Accept	
46.00	303.90	-42.60	FM	Test OK-Accept	
49.00	303.80	-42.60	FM	Test OK-Accept	
52.00	302.40	-43.10	FM	Test Non-OK	
55.00	304.30	-42.50	FM	Test OK-Accept	
58.00	302.50	-42.80	FM	Test Non-OK	
61.00	303.30	-42.90	FM	Test OK-Accept	
64.00	302.90	-42.90	FM	Test OK-Accept	
67.00	302.80	-42.90	FM	Test OK-Accept	
70.00	303.00	-42.90	FM	Test OK-Accept	
73.00	302.70	-42.90	FM	Test OK-Accept	
76.00	302.50	-42.90	FM	Test OK-Accept	
79.00	302.20	-42.90	FM	Test OK-Accept	
82.00	302.50	-42.90	FM	Test OK-Accept	
85.00	302.30	-42.90	FM	Test OK-Accept	
88.00	302.30	-42.90	FM	Test OK-Accept	
91.00	302.30	-43.10	FM	Test OK-Accept	
94.00	302.40	-42.90	FM	Test OK-Accept	
97.00	302.30	-42.90	FM	Test OK-Accept	
100.00	302.00	-42.90	FM	Test OK-Accept	
103.00	301.70	-42.90	FM	Test OK-Accept	
106.00	301.80	-42.90	FM	Test OK-Accept	
109.00	302.40	-42.90	FM	Test OK-Accept	
112.00	301.70	-42.90	FM	Test OK-Accept	

Depth	Azimuth Decimal	Dip Decimal	Test Type	Good	Comments
115.00	301.40	-43.00	FM	Test OK-Accept	
118.00	301.70	-43.00	FM	Test OK-Accept	
121.00	301.40	-43.00	FM	Test OK-Accept	
124.00	303.80	-43.10	FM	Test Non-OK	
127.00	298.10	-43.20	FM	Test Non-OK	
130.00	295.60	-43.40	FM	Test Non-OK	
133.00	299.90	-43.50	FM	Test OK-Accept	
136.00	299.60	-43.50	FM	Test OK-Accept	
139.00	300.10	-43.50	FM	Test OK-Accept	
142.00	295.30	-43.60	FM	Test Non-OK	
145.00	297.90	-43.60	FM	Test Non-OK	
148.00	305.60	-39.50	FM	Test Non-OK	
151.00	295.60	-43.60	FM	Test Non-OK	
154.00	297.40	-43.60	FM	Test Non-OK	
157.00	298.50	-43.70	FM	Test OK-Accept	
160.00	292.90	-43.70	FM	Test Non-OK	
163.00	291.10	-43.70	FM	Test Non-OK	
166.00	295.10	-43.70	FM	Test Non-OK	
169.00	297.40	-43.70	FM	Test Non-OK	
172.00	305.80	-40.30	FM	Test Non-OK	
175.00	292.10	-43.70	FM	Test Non-OK	
178.00	293.60	-43.70	FM	Test Non-OK	
181.00	294.70	-43.70	FM	Test Non-OK	
184.00	299.70	-43.80	FM	Test OK-Accept	
187.00	300.50	-43.80	FM	Test OK-Accept	
190.00	300.40	-43.80	FM	Test OK-Accept	
193.00	300.30	-43.80	FM	Test OK-Accept	
196.00	299.80	-43.80	FM	Test OK-Accept	
199.00	296.10	-43.80	FM	Test Non-OK	
202.00	296.00	-43.90	FM	Test Non-OK	
205.00	290.90	-43.80	FM	Test Non-OK	
208.00	293.60	-43.80	FM	Test Non-OK	
211.00	303.30	-38.90	FM	Test Non-OK	
214.00	297.30	-43.80	FM	Test Non-OK	



Lithology Data																	
From	To	Rock	Texture Type1	Texture Type2	Texture Type3	Texture Type4	Facies	% Chert Bands	Chert Bands Type	Colour1	Colour2	Hard	Grain Size	Magn	Cont Angle	Low Cont	Comments
1.70	13.00	S9	HK	BX	BD		S9C Ank	25.00	Silica	GM		3	FG			DIF	
13.00	35.80	S9	HK	BD	MA		S9C Sid	8.00	Silica	VM	VD	3	FG		60.00	SHP	
35.80	48.60	S6g	APH	LA			S6g			GD	BK	1	Aph				
48.60	50.00	I3A	FO	MA	HJ	PI	I3A Chl-Ank			VM		1	MG		60.00	SHP	
50.00	54.40	S6g	HJ	LA			S6g			GD	BK	1	Aph		60.00	SHP	
54.40	57.80	I3A	HK	MA	PI		I3A Chl-Ank			VM		1	MG				BC Interval contained decimeter scale of grey shale
57.80	123.60	S9	HK	BX	MA	BD	S9C	20.00	Silica	VD	GM	3	FG		60.00	SHP	
123.60	214.00	S6	HJ	LA	BD		S6 GP	4.00	Silica	BK		1	Aph				

Mineralization Data																	
From	To	Best Min	Min Type1	Min Pct1	Min Habitus1	Min Control1	Min Comment1	Min Type2	Min Pct2	Min Habitus2	Min Control2	Min Comment2	Min Type3	Min Pct3	Min Habitus3	Min Control3	Min Comment3
1.70	13.00	Po		2.00	DI	VN		Po	0.10	DI	PER						
13.00	35.80	Po		0.10	DI	PER											
35.80	43.60	Po		2.00	SS	BD											
43.60	49.95	Po		0.10	DI	PER											
49.95	54.40	Po		1.00	SS	BD											
57.80	123.60	Po		0.50	AL	PER		Po	0.10	DI	VN						
123.60	214.00	Po		6.00	SS	BD		Py	4.00	SUB	BD						

Alteration Data											
From	To	Alt Type1	Alt Int1	Alt Style1	Alt Type2	Alt Int2	Alt Style2	Alt Type3	Alt Int3	Alt Style3	Comments
1.70	15.00	Ank	2	PEN							
15.00	19.00	Sil	4	PEN							
19.00	35.80	Ank	2	PEN							
35.80	49.95	CC	5	VN	Ank	3	PEN				
49.95	54.40	NO ALT									
54.40	57.80	CC	1	VN	Ank	5	PEN				
57.80	123.60	Ank	1	VN	Ank	1	PEN				

Vein Data																				
From	To	Perc %	True Thick	Vein Code	Vein Type	Vein Size	Gangue1	Gangue1 Pct	Gangue2	Gangue2 Pct	Gangue3	Gangue3 Pct	Texture1	Texture2	Core Angle	Min1	Min1 Pct	Min2	Min2 Pct	Comments
1.70	13.00	3.00		I1N	UNK	Vein >5cm	QZ	95.00	AK	5.00					45.00	Po	1.00			
13.00	35.80	5.00		I1N	UNK	Veinlet <5cm	QZ	99.00	CL	1.00					50.00	Po	0.10			
35.80	43.60	1.00		I1N	UNK	Veinlet <5cm	QZ	100.00							60.00					
43.60	49.95	5.00		I1N	UNK	Vein >5cm	QZ	100.00	CC						60.00					
49.95	54.40	1.00		I1N	UNK	Veinlet <5cm	QZ	100.00							70.00					
57.75	123.60	5.00		I1N	UNK	Vein >5cm	QZ	98.00	CL	1.00	AK	1.00			45.00	Po	0.10			
123.60	202.00	0.10		I1N	UNK	Veinlet <5cm	QZ	100.00							45.00					
202.00	214.00	10.00		I1N	UNK	Veinlet <5cm	QZ	100.00												

Structure Data					
From	To	Structure Type	Structure Intensity	Structure Angle	Comments
202.00	214.00	FLD	5		

## Oriented Structure Data

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
8.00	S0		25.00										
14.00	VN		40.00	68.00	302.58	-41.88	-77.56	79.25	0.00	169.25			
25.40	VN		32.00	305.00	303.65	-42.40	-89.89	169.65	0.00	259.65			
26.20	S0		20.00	215.00	303.48	-42.40	-36.96	277.18	0.00	7.18			
27.25	S0		27.00	222.00	303.40	-42.40	-37.34	292.83	0.00	22.83			
35.80	CNT		50.00										
36.70	S0		35.00	222.00	303.82	-42.60	-33.24	304.88	0.00	34.88			
43.60	CNT		40.00										
49.00	CNT		70.00										
49.95	CNT		45.00										
53.70	S0		45.00	222.00	303.60	-41.80	-30.34	324.10	0.00	54.10			
54.80	S1		35.00	215.00	302.87	-42.90	-28.12	298.41	0.00	28.41			
75.00	S0		45.00										
88.00	S0		50.00										
100.00	S0		40.00	250.00	301.60	-43.00	-50.95	323.64	0.00	53.64			
121.00	S0		65.00	180.00	297.03	-43.60	-21.40	27.03	0.00	117.03			
123.60	CNT		60.00										
131.00	S2		45.00	270.00	298.13	-43.67	-60.78	334.01	0.00	64.01			
131.00	S0		5.00										
136.00	S0		35.00	190.00	291.70	-43.70	-11.62	246.62	0.00	336.62			
140.00	S0		50.00	200.00	295.87	-43.70	-15.00	327.71	0.00	57.71			
146.00	S0		35.00	210.00	296.67	-42.57	-24.43	288.68	0.00	18.68			
155.00	S0		32.00	215.00	299.97	-43.80	-29.75	288.54	0.00	18.54			
164.00	S0		50.00	240.00	299.88	-43.80	-40.34	330.58	0.00	60.58			
171.00	AxialPlane		58.00	130.00	292.60	-43.83	-33.59	69.80	0.00	159.80			
175.00	S0		40.00	180.00	296.83	-42.17	-2.17	206.83	0.00	296.83			
181.00	S0		45.00	260.00	297.30	-43.80	-54.69	328.72	0.00	58.72			
183.20	S0		55.00	250.00	297.30	-43.80	-44.88	337.50	0.00	67.50			
187.00	S0		54.00	220.00	297.30	-43.80	-27.76	333.08	0.00	63.08			
190.00	S0		55.00	210.00	297.30	-43.80	-22.26	338.09	0.00	68.09			
198.20	S0		40.00	270.00	297.30	-43.80	-63.58	328.50	0.00	58.50			
202.50	AxialPlane		70.00	90.00	297.30	-43.80	-49.43	54.06	0.00	144.06			
207.70	S0		30.00	250.00	297.30	-43.80	-55.95	308.14	0.00	38.14			
208.80	AxialPlane		47.00	330.00	297.30	-43.80	-85.42	7.30	0.00	97.30			

Depth	Type	Measure	Alpha Angle	Beta Angle	Core Azi	Core Dip	Calc Dip	Calc Strike	App Dip	Dip Dir	Gamma Angle	Lineation	Comments
211.40	AxialPlane		60.00	100.00	297.30	-43.80	-48.54	68.37	0.00	158.37			

**Sample Data - ASSAY**

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
556000	1.70	3.00	1.30	2	VO18244251 - Finalized	08/10/2018	0.016	0.010	0.70	2.80	12.65	3,300.0	0.031	18.00	0.42	3.30	13.00
556001	3.00	4.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.002	0.040	0.70	4.10	13.00	3,350.0	0.003	11.00	0.41	3.20	12.00
556002	4.00	5.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.009	0.020	0.40	5.20	11.85	3,230.0	0.003	15.00	0.30	2.70	14.00
556003	5.00	6.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.012	0.010	0.50	2.30	14.75	4,100.0	0.003	17.00	0.24	1.90	15.00
556004	6.00	7.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.028	0.040	5.00	9.20	16.75	4,730.0	0.005	15.00	0.50	2.30	26.00
556005	7.00	8.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.386	0.050	5.20	12.70	19.30	5,940.0	0.010	19.00	0.39	3.10	32.00
556007	8.00	9.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.098	0.020	3.60	9.10	23.40	7,230.0	0.003	21.00	0.32	3.70	34.00
556008	9.00	10.00	1.00	2	VO18269970 - Finalized	02/11/2018	10.050	0.310	7.50	29.50	22.40	6,020.0	0.112	13.00	0.17	7.50	31.00
556009	10.00	11.00	1.00	2	VO18269970 - Finalized	02/11/2018	5.850	0.480	15.30	21.00	21.80	7,450.0	0.041	13.00	0.26	4.50	30.00
556010	11.00	12.00	1.00	2	VO18269970 - Finalized	02/11/2018	3.810	0.100	6.80	13.90	23.30	8,980.0	0.008	29.00	0.56	4.80	37.00
556011	12.00	13.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.041	0.020	71.40	4.90	18.35	7,730.0	0.003	24.00	0.45	3.30	35.00
556012	13.00	14.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.004	0.005	42.60	3.70	22.40	7,030.0	0.003	8.00	0.16	2.00	34.00
556013	14.00	15.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.004	0.010	21.70	3.60	21.70	10,250.0	0.003	26.00	0.46	6.00	25.00
556014	15.00	16.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.002	0.010	2.90	3.70	22.40	14,050.0	0.003	25.00	0.66	9.10	19.00
556015	16.00	17.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.004	0.020	15.00	5.50	8.87	5,270.0	0.003	6.00	0.31	2.70	6.00
556016	17.00	18.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.001	0.010	2.80	4.10	14.95	8,380.0	0.003	13.00	0.35	4.50	8.00
556017	18.00	19.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.001	0.020	4.50	6.80	14.20	8,180.0	0.003	21.00	0.36	4.20	10.00
556018	19.00	20.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.001	0.010	11.00	4.30	14.00	8,630.0	0.003	10.00	0.41	3.10	7.00
556020	20.00	21.00	1.00	2	VO18269970 - Finalized	02/11/2018	0.003	0.010	1.40	6.50	24.20	13,150.0	0.003	41.00	0.75	10.60	15.00
556021	21.00	22.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.001	0.020	0.50	4.10	21.30	12,550.0	0.003	29.00	0.59	8.60	11.00
556022	22.00	23.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.001	0.005	7.40	3.90	21.60	13,200.0	0.003	30.00	0.96	7.70	10.00
556023	23.00	24.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.147	0.020	105.00	5.90	19.60	10,650.0	0.003	21.00	0.73	6.40	13.00
556024	24.00	25.00	1.00	2	VO18244241 - Finalized	09/10/2018	2.000	0.030	9.90	13.40	18.50	6,570.0	0.008	11.00	0.27	4.70	17.00
556025	25.00	26.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.321	0.140	6.20	6.30	21.90	7,390.0	0.003	16.00	0.18	4.20	21.00
556027	26.00	27.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.032	0.010	2.60	4.50	23.50	11,100.0	0.003	49.00	0.37	9.20	27.00
556028	27.00	28.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.001	0.010	4.60	4.00	20.20	14,150.0	0.003	34.00	0.28	7.80	10.00
556029	28.00	29.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.001	0.020	4.70	3.60	22.30	14,400.0	0.003	28.00	0.46	6.80	8.00
556030	29.00	30.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.001	0.020	2.70	3.30	21.70	12,350.0	0.003	28.00	0.55	6.60	7.00
556031	30.00	31.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.001	0.020	5.60	4.90	21.10	12,700.0	0.003	28.00	0.30	8.10	9.00
556032	31.00	32.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.001	0.010	7.20	5.30	19.10	11,450.0	0.003	31.00	0.29	8.50	10.00
556033	32.00	33.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.001	0.010	4.00	5.40	18.35	12,200.0	0.003	32.00	0.34	8.70	12.00
556034	33.00	34.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.001	0.100	5.70	4.70	19.25	12,450.0	0.003	35.00	0.21	6.70	13.00
556035	34.00	35.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.001	0.010	1.70	5.20	17.80	12,250.0	0.003	33.00	0.26	8.20	20.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
556036	35.00	35.80	0.80	2	VO18244241 - Finalized	09/10/2018	0.001	0.070	16.50	8.20	19.35	14,150.0	0.005	60.00	0.41	11.00	49.00
558659	35.80	37.00	1.20	2	VO18244230 - Finalized	19/10/2018	0.022	0.440	4.30	128.50	16.05	1,190.0	0.009	248.00	8.62	63.60	151.00
558660	37.00	39.00	2.00	2	VO18244230 - Finalized	19/10/2018	0.007	0.170	9.70	33.10	11.85	1,240.0	0.008	179.00	5.08	45.60	140.00
558661	39.00	41.00	2.00	2	VO18244230 - Finalized	19/10/2018	0.013	0.290	1.20	64.40	10.60	870.0	0.009	223.00	2.81	59.10	177.00
558662	41.00	43.00	2.00	2	VO18244230 - Finalized	19/10/2018	0.007	0.150	1.70	59.60	8.03	822.0	0.009	125.00	2.00	37.10	184.00
558663	43.00	43.40	0.40	2	VO18244230 - Finalized	19/10/2018	0.003	0.150	0.90	61.30	6.42	363.0	0.013	241.00	5.13	37.80	136.00
558664	43.40	45.00	1.60	2	VO18244230 - Finalized	19/10/2018	0.001	0.050	22.30	71.30	7.37	977.0	0.006	252.00	2.65	58.00	162.00
558665	45.00	47.00	2.00	2	VO18244230 - Finalized	19/10/2018	0.003	0.150	78.90	110.50	8.19	1,390.0	0.011	302.00	0.29	78.70	113.00
558666	47.00	48.60	1.60	2	VO18244230 - Finalized	19/10/2018	0.003	0.230	96.00	140.00	8.09	1,360.0	0.005	287.00	0.36	106.50	101.00
558667	48.60	50.00	1.40	2	VO18244230 - Finalized	19/10/2018	0.001	0.120	49.10	84.90	11.65	1,210.0	0.006	330.00	0.89	91.40	227.00
558668	50.00	52.00	2.00	2	VO18244230 - Finalized	19/10/2018	0.007	0.240	1.00	83.80	7.42	685.0	0.022	229.00	5.10	42.50	224.00
558670	52.00	54.00	2.00	2	VO18244230 - Finalized	19/10/2018	0.005	0.180	1.60	85.20	7.04	331.0	0.015	200.00	2.95	42.70	159.00
558671	54.00	54.40	0.40	2	VO18244233 - Finalized	20/10/2018	0.006	0.200	0.70	118.50	7.18	281.0	0.011	203.00	3.62	41.60	129.00
558672	54.40	56.00	1.60	2	VO18244233 - Finalized	20/10/2018	0.001	0.120	42.50	62.20	7.71	747.0	0.011	278.00	2.33	74.90	166.00
558673	56.00	57.75	1.75	2	VO18244233 - Finalized	20/10/2018	0.001	0.200	76.30	96.70	9.44	1,250.0	0.015	319.00	0.26	97.80	132.00
556037	57.75	59.00	1.25	2	VO18244241 - Finalized	09/10/2018	0.004	0.030	0.30	50.30	22.10	6,300.0	0.003	11.00	0.12	2.20	20.00
556038	59.00	60.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.001	0.010	0.10	1.10	28.70	5,550.0	0.011	5.00	0.07	0.80	5.00
556040	60.00	61.00	1.00	2	VO18244241 - Finalized	09/10/2018	0.001	0.010	0.30	0.30	26.20	5,050.0	0.003	6.00	0.13	1.00	5.00
556041	61.00	62.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.010	0.30	0.60	35.60	5,970.0	0.003	12.00	0.06	0.90	6.00
556042	62.00	63.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.005	0.30	0.40	33.20	6,600.0	0.007	5.00	0.08	1.00	4.00
556043	63.00	64.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.005	0.50	0.80	30.60	6,820.0	0.005	3.00	0.11	0.90	6.00
556044	64.00	65.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.010	0.10	0.40	30.30	6,590.0	0.003	3.00	0.13	1.00	5.00
556045	65.00	66.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.005	0.30	0.60	28.50	7,000.0	0.003	4.00	0.09	0.80	3.00
556047	66.00	67.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.005	0.10	0.80	30.70	7,610.0	0.003	4.00	0.11	1.10	4.00
556048	67.00	68.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.010	0.70	0.70	34.10	8,540.0	0.003	4.00	0.09	0.90	4.00
556049	68.00	69.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.005	0.20	0.60	33.60	7,510.0	0.003	3.00	0.10	0.90	4.00
556050	69.00	70.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.005	0.30	0.40	34.40	7,520.0	0.003	7.00	0.07	0.90	3.00
556051	70.00	71.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.020	0.20	0.90	23.90	3,780.0	0.003	8.00	0.09	0.60	2.00
556052	71.00	72.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.005	0.50	0.40	36.60	6,370.0	0.003	11.00	0.07	0.80	3.00
556053	72.00	73.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.010	0.40	1.00	31.80	5,340.0	0.006	8.00	0.10	0.80	2.00
556054	73.00	74.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.005	1.30	0.60	36.10	6,300.0	0.009	9.00	0.10	0.80	7.00
556055	74.00	75.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.010	1.40	0.90	25.10	4,480.0	0.007	10.00	0.14	0.90	4.00
556056	75.00	76.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.010	0.30	0.50	32.40	6,560.0	0.003	8.00	0.16	0.90	3.00
556057	76.00	77.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.010	0.50	0.70	31.20	6,200.0	0.007	10.00	0.11	0.70	3.00
556058	77.00	78.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.005	1.00	2.40	31.30	6,860.0	0.006	8.00	0.12	0.80	3.00
556060	78.00	79.00	1.00	2	VO18244231 - Finalized	08/10/2018	0.001	0.010	1.30	0.70	33.10	8,880.0	0.003	8.00	0.16	1.20	3.00
556061	79.00	80.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.010	1.10	2.30	27.70	7,100.0	0.003	8.00	0.15	1.70	2.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
556062	80.00	81.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.010	0.10	0.70	25.40	6,050.0	0.003	8.00	0.13	1.40	5.00
556063	81.00	82.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.010	5.70	1.00	20.90	4,650.0	0.006	8.00	0.12	1.10	4.00
556064	82.00	83.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.010	0.10	0.60	28.70	6,210.0	0.003	9.00	0.11	1.20	6.00
556065	83.00	84.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.005	0.50	0.80	26.00	5,660.0	0.003	10.00	0.10	1.10	5.00
556067	84.00	85.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.010	0.40	1.20	28.20	6,330.0	0.003	9.00	0.11	1.30	6.00
556068	85.00	86.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.005	0.20	0.40	26.10	5,850.0	0.003	7.00	0.13	1.20	5.00
556069	86.00	87.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.010	1.80	1.30	25.70	6,210.0	0.003	12.00	0.10	1.10	5.00
556070	87.00	88.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.090	2.60	1.60	25.30	5,870.0	0.003	15.00	0.12	1.50	6.00
556071	88.00	89.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.005	4.20	1.70	21.50	5,020.0	0.003	11.00	0.10	1.20	6.00
556072	89.00	90.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.030	0.40	1.20	25.40	5,020.0	0.003	8.00	0.15	1.30	6.00
556073	90.00	91.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.020	0.10	0.70	28.80	6,270.0	0.003	6.00	0.09	0.90	10.00
556074	91.00	92.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.010	0.50	0.60	29.40	6,510.0	0.003	6.00	0.10	1.00	7.00
556075	92.00	93.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.010	0.50	0.70	30.00	6,690.0	0.003	7.00	0.08	1.00	5.00
556076	93.00	94.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.010	0.20	0.60	30.90	6,450.0	0.003	7.00	0.08	0.90	5.00
556077	94.00	95.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.010	0.40	0.70	30.30	5,770.0	0.003	7.00	0.07	1.00	5.00
556078	95.00	96.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.010	0.20	0.80	31.90	5,640.0	0.003	7.00	0.08	1.00	4.00
556080	96.00	97.00	1.00	2	VO18244226 - Finalized	08/10/2018	0.001	0.010	0.20	1.40	30.30	5,530.0	0.003	7.00	0.07	1.00	5.00
556081	97.00	98.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.005	0.40	2.70	31.00	5,590.0	0.007	7.00	0.16	1.20	5.00
556082	98.00	99.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.005	0.10	2.80	28.00	5,940.0	0.003	6.00	0.11	1.20	4.00
556083	99.00	100.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.005	0.30	2.60	28.80	4,920.0	0.003	8.00	0.10	1.00	4.00
556084	100.00	101.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.005	0.90	2.30	31.10	4,910.0	0.003	9.00	0.15	1.10	4.00
556085	101.00	102.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.005	0.70	2.90	31.90	6,220.0	0.003	8.00	0.10	1.10	3.00
556087	102.00	103.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.010	0.40	3.40	25.60	5,120.0	0.003	8.00	0.10	1.30	5.00
556088	103.00	104.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.040	78.80	8.90	27.60	4,350.0	0.003	11.00	0.41	2.50	8.00
556089	104.00	105.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.010	0.60	2.60	28.30	5,190.0	0.003	9.00	0.26	1.60	6.00
556090	105.00	106.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.010	0.30	2.20	31.60	8,660.0	0.003	6.00	0.18	1.30	6.00
556091	106.00	107.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.010	1.20	1.90	26.60	6,760.0	0.003	6.00	0.14	1.10	4.00
556092	107.00	108.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.005	0.10	2.30	23.50	4,870.0	0.005	6.00	0.13	1.00	7.00
556093	108.00	109.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.005	1.10	1.90	28.00	4,180.0	0.003	10.00	0.15	1.10	6.00
556094	109.00	110.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.010	1.80	2.10	28.20	4,380.0	0.003	9.00	0.12	1.30	9.00
556095	110.00	111.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.010	0.40	2.60	29.30	4,820.0	0.003	9.00	0.13	1.10	12.00
556096	111.00	112.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.010	3.20	1.40	28.30	5,420.0	0.003	7.00	0.13	1.40	12.00
556097	112.00	113.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.005	1.50	4.20	28.60	4,410.0	0.003	8.00	0.13	1.30	11.00
556098	113.00	114.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.005	1.10	0.60	28.70	11,700.0	0.003	6.00	0.10	1.00	4.00
556100	114.00	115.00	1.00	2	VO18244235 - Finalized	09/10/2018	0.001	0.005	1.30	3.60	22.30	8,220.0	0.003	7.00	0.12	1.30	5.00
556101	115.00	116.00	1.00	2	VO18244263 - Finalized	12/10/2018	0.009	0.020	1.00	3.80	25.60	7,670.0	0.003	8.00	0.46	2.50	5.00
556102	116.00	117.00	1.00	2	VO18244263 - Finalized	12/10/2018	0.001	0.010	1.20	2.80	28.00	4,770.0	0.003	10.00	0.14	1.30	5.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
556103	117.00	118.00	1.00	2	VO18244263 - Finalized	12/10/2018	0.001	0.020	0.80	3.20	28.70	5,090.0	0.003	12.00	0.15	1.70	12.00
556104	118.00	119.00	1.00	2	VO18244263 - Finalized	12/10/2018	0.012	0.250	233.00	41.50	22.50	4,590.0	0.019	76.00	4.96	32.20	112.00
556105	119.00	120.00	1.00	2	VO18244263 - Finalized	12/10/2018	0.372	0.030	2.20	18.70	21.60	12,350.0	0.005	36.00	0.31	10.50	76.00
556107	120.00	121.00	1.00	2	VO18244263 - Finalized	12/10/2018	0.005	0.030	0.90	8.30	17.85	10,450.0	0.003	28.00	0.56	6.70	28.00
556108	121.00	122.00	1.00	2	VO18244263 - Finalized	12/10/2018	0.312	0.150	3.60	2.90	20.70	12,450.0	0.005	40.00	0.27	6.50	31.00
556109	122.00	123.00	1.00	2	VO18244263 - Finalized	12/10/2018	0.001	0.040	2.60	5.80	18.50	12,550.0	0.006	44.00	0.33	8.10	34.00
556110	123.00	123.60	0.60	2	VO18244263 - Finalized	12/10/2018	0.006	0.330	27.10	57.20	22.70	14,050.0	0.021	60.00	0.53	35.30	142.00
558674	123.60	125.00	1.40	2	VO18244233 - Finalized	20/10/2018	0.034	1.380	6.20	236.00	23.80	263.0	0.075	163.00	14.10	152.00	314.00
558675	125.00	127.00	2.00	2	VO18244233 - Finalized	20/10/2018	0.037	1.520	10.40	220.00	20.90	424.0	0.199	195.00	18.30	140.00	1 000.00
558677	127.00	129.00	2.00	2	VO18244233 - Finalized	20/10/2018	0.009	0.630	14.70	114.50	11.50	380.0	0.089	152.00	9.96	90.60	440.00
558678	129.00	131.00	2.00	2	VO18244233 - Finalized	20/10/2018	0.016	0.750	39.90	128.00	11.90	393.0	0.196	171.00	11.25	117.50	456.00
558679	131.00	133.00	2.00	2	VO18244233 - Finalized	20/10/2018	0.033	1.050	99.70	83.90	12.30	1,320.0	0.421	226.00	19.45	113.00	856.00
558680	133.00	135.00	2.00	2	VO18244233 - Finalized	20/10/2018	0.051	1.390	153.50	136.50	16.10	869.0	0.679	338.00	30.50	163.00	1 510.00
558681	135.00	137.00	2.00	2	VO18244233 - Finalized	20/10/2018	0.039	1.660	109.50	271.00	15.25	2,800.0	0.537	909.00	99.00	195.00	2 790.00
558682	137.00	139.00	2.00	2	VO18244233 - Finalized	20/10/2018	0.038	2.150	133.00	403.00	18.10	3,190.0	0.460	1 200.00	144.00	287.00	2 340.00
558683	139.00	141.00	2.00	2	VO18244233 - Finalized	20/10/2018	0.043	2.020	401.00	374.00	18.00	3,460.0	0.435	1 150.00	146.50	270.00	2 210.00
558684	141.00	143.00	2.00	2	VO18244233 - Finalized	20/10/2018	0.038	1.810	418.00	264.00	16.80	4,660.0	0.446	1 190.00	132.00	251.00	2 460.00
558685	143.00	145.00	2.00	2	VO18244233 - Finalized	20/10/2018	0.052	2.690	82.40	325.00	15.90	2,280.0	0.728	1 320.00	146.50	271.00	4 010.00
558686	145.00	147.00	2.00	2	VO18244233 - Finalized	20/10/2018	0.040	1.260	172.00	100.00	14.35	744.0	0.666	354.00	32.80	151.50	1 250.00
558687	147.00	149.00	2.00	2	VO18244233 - Finalized	20/10/2018	0.053	1.130	131.50	110.00	13.50	885.0	0.528	465.00	46.80	130.50	1 380.00
558688	149.00	151.00	2.00	2	VO18244233 - Finalized	20/10/2018	0.045	1.880	108.50	168.50	13.45	1,400.0	0.609	806.00	89.60	165.00	2 290.00
558690	151.00	153.00	2.00	2	VO18244233 - Finalized	20/10/2018	0.047	1.520	131.00	158.00	14.35	751.0	0.610	524.00	52.90	172.50	1 760.00
558691	153.00	155.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.033	1.320	110.00	118.00	11.95	723.0	0.470	390.00	26.80	142.50	911.00
558692	155.00	157.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.025	1.270	109.50	147.00	13.10	586.0	0.501	386.00	35.00	150.00	1 040.00
558693	157.00	159.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.014	0.870	62.90	115.50	9.83	143.0	0.217	191.00	12.00	114.50	436.00
558694	159.00	161.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.010	0.840	63.50	148.00	11.40	141.0	0.269	178.00	11.55	138.50	437.00
558695	161.00	163.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.012	0.820	66.90	122.50	10.80	201.0	0.301	196.00	13.20	123.00	630.00
558697	163.00	165.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.014	0.830	77.10	111.50	10.80	192.0	0.301	205.00	14.00	122.00	643.00
558698	165.00	167.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.006	0.590	54.30	123.50	9.60	372.0	0.183	176.00	12.30	108.50	345.00
558699	167.00	169.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.014	0.890	81.60	122.50	11.25	666.0	0.323	197.00	14.35	123.50	645.00
558700	169.00	171.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.021	0.990	106.50	113.50	11.80	620.0	0.434	220.00	16.35	138.50	764.00
558701	171.00	173.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.040	1.470	143.50	118.50	13.10	602.0	0.587	435.00	38.70	170.00	1 040.00
558702	173.00	175.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.040	1.470	86.30	353.00	15.40	1,940.0	0.478	1 110.00	91.90	292.00	2 300.00
558703	175.00	177.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.050	2.050	24.00	608.00	17.55	2,300.0	0.271	1 020.00	106.50	387.00	2 120.00
558704	177.00	179.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.070	3.140	37.90	621.00	17.50	1,310.0	0.658	1 520.00	169.00	423.00	5 330.00
558705	179.00	181.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.073	3.160	61.30	533.00	15.45	1,440.0	0.596	1 310.00	138.50	370.00	3 860.00
558706	181.00	183.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.050	1.830	160.00	254.00	14.15	1,490.0	0.574	809.00	80.80	233.00	1 610.00

Sample Number	From	To	Length	Lab	Cert #	Date	Au ppm Final	Ag ppm MS61	As ppm MS61	Cu ppm MS61	Fe pct MS61	Mn ppm MS61	Hg ppm MS42	V ppm MS61	Mo ppm MS61	Ni ppm MS61	Zn ppm MS61
558707	183.00	185.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.055	1.590	229.00	115.50	16.50	335.0	0.914	358.00	36.50	186.50	1 220.00
558708	185.00	187.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.024	0.880	135.00	142.00	13.65	864.0	0.575	202.00	18.80	152.00	1 200.00
558710	187.00	189.00	2.00	2	VO18244238 - Finalized	19/10/2018	0.059	1.350	156.50	116.50	14.45	505.0	0.717	293.00	27.00	168.50	1 280.00
558711	189.00	191.00	2.00	2	VO18247457 - Finalized	20/10/2018	0.031	0.950	139.00	80.40	13.00	1,460.0	0.694	234.00	27.80	107.50	1 410.00
558712	191.00	193.00	2.00	2	VO18247457 - Finalized	20/10/2018	0.037	1.550	199.50	69.80	15.00	114.0	0.961	572.00	70.40	163.00	847.00
558713	193.00	195.00	2.00	2	VO18247457 - Finalized	20/10/2018	0.068	2.580	204.00	247.00	16.50	1,000.0	1.315	1 720.00	190.00	445.00	3 680.00
558714	195.00	197.00	2.00	2	VO18247457 - Finalized	20/10/2018	0.051	1.990	114.00	282.00	14.30	985.0	0.733	1 030.00	115.50	297.00	2 310.00
558715	197.00	199.00	2.00	2	VO18247457 - Finalized	20/10/2018	0.026	1.180	104.00	168.00	12.30	674.0	0.449	286.00	23.40	156.50	1 020.00
558717	199.00	201.00	2.00	2	VO18247457 - Finalized	20/10/2018	0.024	1.600	158.00	64.70	13.85	1,120.0	0.710	470.00	46.00	159.00	1 220.00
558718	201.00	203.00	2.00	2	VO18247457 - Finalized	20/10/2018	0.031	1.540	34.80	295.00	16.45	1,980.0	0.232	627.00	53.50	182.50	1 310.00
558719	203.00	205.00	2.00	2	VO18247457 - Finalized	20/10/2018	0.018	1.290	12.40	321.00	15.65	1,770.0	0.195	458.00	32.30	191.00	1 120.00
558720	205.00	207.00	2.00	2	VO18247457 - Finalized	20/10/2018	0.027	2.120	29.80	267.00	15.75	2,810.0	0.345	1 060.00	117.00	243.00	1 720.00
558721	207.00	209.00	2.00	2	VO18247457 - Finalized	20/10/2018	0.007	1.320	9.40	352.00	18.15	9,470.0	0.121	373.00	35.10	253.00	478.00
558722	209.00	211.00	2.00	2	VO18247457 - Finalized	20/10/2018	0.006	0.930	22.20	274.00	14.40	1,260.0	0.041	392.00	16.30	189.00	70.00
558723	211.00	213.00	2.00	2	VO18247457 - Finalized	20/10/2018	0.026	2.810	6.70	450.00	22.10	1,610.0	0.448	1 160.00	125.00	374.00	2 200.00
558724	213.00	214.00	1.00	2	VO18247457 - Finalized	20/10/2018	0.038	2.730	2.20	432.00	18.90	2,460.0	0.512	1 480.00	156.00	322.00	2 670.00



**Appendix 4**

Laboratory Certificate of Analysis

Drill Core Samples

2018



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
www.alsglobal.com/geochemistry

To: **MINIÈRE OSISKO INC.**  
**300, RUE ST-PAUL**  
**BUREAU 200**  
**QUEBEC QC G1K 7R1**

Page: 1  
Total # Pages: 2 (A - D)  
Plus Appendix Pages  
Finalized Date: 5-JUL-2018  
This copy reported on  
6-JUL-2018  
Account: MINVIR

**CERTIFICATE VO18147954**

Project: KAN  
P.O. No.: KANDH18-001  
This report is for 20 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 21-JUN-2018.

The following have access to data associated with this certificate:

GLENN ASCH  
LEE SCHOLL

SIMON HEBERT  
LIZ STOCK

SIMON HOULE  
CORPORATIF WEBTRIEVE

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
WEI-21	Received Sample Weight

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	
Hg-MS42	Trace Hg by ICPMS	ICP-MS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
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To: **MINIÈRE OSISKO INC.**  
**300, RUE ST-PAUL**  
**BUREAU 200**  
**QUEBEC QC G1K 7R1**

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 5-JUL-2018  
 Account: MINVIR

Project: KAN

**CERTIFICATE OF ANALYSIS VO18147954**

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
458201		1.56	0.017	0.89	8.29	43.4	150	2.22	0.11	0.65	5.00	47.6	17.9	104	5.19	212
458202		0.55	0.014	0.78	6.92	71.4	100	2.06	0.08	0.73	1.77	51.3	25.5	83	4.18	246
458203		1.37	0.025	2.31	8.15	17.4	210	2.81	0.21	0.37	2.00	53.7	14.1	97	4.62	517
458204		1.18	0.008	0.78	10.15	16.2	280	2.94	0.05	0.62	1.68	56.2	5.2	120	6.24	269
458205		1.13	0.015	0.91	7.91	25.4	210	2.73	0.08	0.72	2.69	61.3	55.0	106	4.94	227
458206		1.20	0.007	0.51	5.80	15.6	180	2.10	0.06	0.48	3.91	40.2	28.6	92	3.61	171.0
458207		1.52	0.088	3.06	1.61	20.7	30	0.52	0.34	2.63	12.65	33.9	14.4	42	1.22	612
458208		1.29	0.086	3.08	1.98	230	40	0.64	0.37	3.01	12.30	40.6	40.0	45	1.33	428
458209		0.06	0.675	0.21	7.60	20.0	340	1.42	0.14	4.50	0.21	52.0	44.9	186	2.02	56.5
458210		1.45	0.057	2.74	1.25	897	10	0.29	0.32	3.73	4.66	44.2	24.5	38	0.63	403
458211		1.43	0.038	1.75	0.92	103.5	20	0.35	0.20	4.32	4.48	26.7	5.1	33	0.70	331
458212		1.44	0.093	2.38	2.46	325	90	1.37	0.31	2.23	21.1	57.2	15.6	51	1.68	420
458213		1.21	0.094	2.19	2.60	307	40	1.67	0.29	2.66	23.5	64.2	10.8	52	1.18	364
458214		1.31	0.087	1.75	3.81	151.0	30	2.80	0.29	2.22	27.8	65.2	16.0	55	1.13	251
458215		1.36	0.078	1.49	2.26	171.5	20	2.68	0.28	3.21	13.45	50.0	17.9	41	0.53	220
458216		0.24	0.001	0.01	0.08	0.6	10	0.07	0.01	36.9	0.09	2.65	0.6	2	<0.05	1.8
458217		1.38	0.040	0.87	1.48	101.5	20	0.83	0.20	3.44	6.06	43.1	11.1	30	0.20	209
458218		1.37	0.044	0.84	1.33	72.2	30	0.62	0.21	3.60	5.82	42.9	10.7	26	0.22	166.5
458219		1.36	0.068	1.17	1.67	143.5	20	0.68	0.33	3.18	10.10	38.8	14.6	34	0.34	254
458220		1.19	0.047	0.43	1.74	67.8	10	0.35	0.16	3.40	2.78	38.5	10.9	30	0.19	97.5



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Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 5-JUL-2018  
 Account: MINVIR

Project: KAN

**CERTIFICATE OF ANALYSIS VO18147954**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
458201		15.05	21.4	0.16	4.1	0.164	0.099	3.27	25.7	28.6	0.78	547	12.25	0.27	9.2	209
458202		15.95	18.15	0.16	4.2	0.101	0.058	2.36	28.7	39.0	1.13	710	10.85	0.16	8.7	158.0
458203		17.65	22.8	0.18	3.7	0.067	0.065	3.15	27.7	34.1	0.75	349	24.6	0.29	8.5	247
458204		12.20	25.7	0.17	4.3	0.037	0.086	4.04	31.3	39.1	0.93	517	11.00	0.33	8.7	153.0
458205		10.90	20.9	0.18	4.3	0.053	0.070	3.04	36.1	32.7	0.91	1140	21.4	0.21	9.6	101.5
458206		6.90	14.45	0.10	3.0	0.076	0.074	2.35	23.0	17.0	0.46	692	6.37	0.17	8.7	62.9
458207		24.1	5.27	0.16	1.0	0.190	0.068	0.27	21.2	18.9	1.72	5150	119.0	0.01	2.0	299
458208		22.0	6.30	0.15	1.0	0.196	0.071	0.33	25.6	22.2	1.87	5430	119.0	0.02	2.3	233
458209		7.75	19.95	0.10	3.9	0.025	0.067	0.91	23.0	16.0	2.92	934	1.97	1.78	20.7	144.5
458210		23.4	4.50	0.16	0.6	0.103	0.024	0.13	26.4	17.4	2.46	9580	74.1	0.01	1.5	248
458211		19.65	3.25	0.12	0.5	0.092	0.019	0.18	16.0	10.4	2.22	9920	68.9	0.01	1.2	200
458212		19.80	8.07	0.15	1.9	0.263	0.060	0.69	34.6	18.6	1.52	7690	106.5	0.11	6.1	203
458213		18.60	8.39	0.18	2.0	0.282	0.058	0.51	38.0	21.4	1.65	9500	97.4	0.30	3.9	157.5
458214		18.70	11.40	0.19	2.6	0.335	0.059	0.32	37.8	42.9	1.64	5690	103.5	0.64	3.3	138.5
458215		21.4	7.38	0.14	1.4	0.165	0.041	0.16	28.0	28.5	2.05	9400	61.5	0.27	2.8	93.3
458216		0.24	0.27	<0.05	0.1	<0.005	0.005	0.01	2.2	1.3	2.12	185	0.66	0.04	0.1	0.4
458217		21.3	5.13	0.14	1.0	0.086	0.023	0.05	23.4	21.8	2.10	9700	34.1	0.10	2.2	70.5
458218		22.9	4.67	0.11	0.8	0.081	0.025	0.08	23.8	18.2	2.18	10200	32.3	0.06	2.2	57.6
458219		23.2	6.03	0.12	1.3	0.145	0.031	0.07	21.8	22.1	1.97	8070	57.2	0.02	2.5	77.7
458220		23.6	5.46	0.08	1.0	0.045	0.024	0.01	19.4	23.1	2.23	8580	29.8	<0.01	2.6	36.6



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Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 5-JUL-2018  
 Account: MINVIR

Project: KAN

**CERTIFICATE OF ANALYSIS VO18147954**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
458201		270	29.2	91.3	0.017	>10.0	4.67	18.9	13	2.0	55.4	0.54	0.28	4.05	0.298	6.03
458202		390	27.4	75.8	0.010	>10.0	3.54	16.6	15	1.7	39.0	0.53	0.20	4.38	0.218	4.91
458203		290	68.1	88.9	0.030	9.45	5.11	15.8	7	2.1	53.0	0.52	0.49	5.30	0.195	5.57
458204		240	20.5	115.0	0.008	6.86	1.96	20.9	6	2.3	67.3	0.50	0.16	4.84	0.320	6.74
458205		390	22.6	94.8	0.017	6.32	3.20	17.9	7	2.0	53.2	0.59	0.17	5.01	0.248	5.24
458206		170	10.8	68.8	0.008	4.45	1.30	11.3	3	1.5	43.4	0.49	0.12	3.50	0.222	3.70
458207		1680	60.1	13.5	0.068	>10.0	10.65	4.0	20	0.5	53.1	0.12	0.61	2.36	0.040	0.95
458208		3220	75.3	15.4	0.075	>10.0	12.15	4.6	17	0.5	58.4	0.17	0.66	2.40	0.048	1.06
458209		1120	14.5	42.1	<0.002	0.03	1.04	21.3	1	1.8	357	1.21	<0.05	4.98	0.920	0.21
458210		4460	58.5	6.6	0.046	>10.0	10.55	3.0	15	0.2	68.8	0.09	0.67	1.35	0.027	0.49
458211		3560	33.3	8.4	0.033	8.09	6.76	2.4	12	0.2	75.0	0.08	0.37	1.10	0.022	0.53
458212		2950	58.2	31.8	0.089	9.56	9.93	5.2	23	0.6	67.2	0.24	0.63	3.51	0.048	1.67
458213		3440	48.8	23.2	0.085	8.05	8.87	5.4	23	0.4	86.3	0.28	0.65	3.68	0.056	1.24
458214		2440	40.7	14.1	0.097	8.12	7.35	6.6	24	0.3	85.8	0.19	0.61	3.76	0.073	0.78
458215		3100	31.2	7.4	0.062	6.07	5.42	4.8	17	0.2	76.8	0.17	0.67	2.82	0.046	0.39
458216		70	0.8	0.3	<0.002	0.03	0.08	0.2	1	<0.2	83.5	<0.05	<0.05	0.15	0.006	<0.02
458217		2840	17.1	3.7	0.025	4.58	2.76	2.8	10	0.2	61.7	0.15	0.43	2.11	0.031	0.18
458218		3960	17.1	5.5	0.033	4.31	2.79	2.8	11	0.2	60.5	0.12	0.48	1.84	0.029	0.25
458219		2790	22.7	4.3	0.056	5.23	4.10	3.3	14	0.2	58.0	0.17	0.75	2.36	0.032	0.25
458220		2870	12.2	0.5	0.019	2.31	1.88	3.2	6	<0.2	57.2	0.21	0.31	2.98	0.035	0.06



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Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 5-JUL-2018  
 Account: MINVIR

Project: KAN

**CERTIFICATE OF ANALYSIS VO18147954**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U	V	W	Y	Zn	Zr	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	0.01	0.01
458201		10.6	176	1.4	9.2	871	145.5	90.5	98.1
458202		7.1	166	1.4	10.7	339	146.5		92.1
458203		17.3	261	1.5	9.1	361	136.0		
458204		10.2	166	1.4	8.4	331	160.0		
458205		11.1	288	1.4	10.6	459	158.0		
458206		4.8	117	0.9	6.6	659	108.5		
458207		43.6	892	2.0	13.4	1780	40.6		
458208		40.0	943	2.0	20.9	1800	43.8		
458209		1.1	147	2.1	20.5	131	151.0		
458210		34.0	788	1.1	22.1	710	28.4		
458211		22.7	624	0.8	18.8	659	23.2		
458212		50.2	932	0.7	24.4	2740	74.6		
458213		48.6	895	0.6	27.2	2870	78.3		
458214		45.6	871	0.5	21.0	3350	101.0		
458215		30.9	568	0.4	20.0	1680	56.6		
458216		0.4	4	<0.1	2.9	12	2.1		
458217		15.1	347	0.2	15.5	823	39.9		
458218		18.4	358	0.2	19.4	821	35.4		
458219		22.5	488	0.3	19.1	1320	48.6		
458220		13.6	261	0.1	17.4	551	39.1		



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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 5-JUL-2018  
 Account: MINVIR

Project: KAN

<b>CERTIFICATE OF ANALYSIS VO18147954</b>
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	<b>CERTIFICATE COMMENTS</b>
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	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	<p>REE's may not be totally soluble in this method.          ME-MS61</p>								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	<p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 6-JUIL-2018  
 Compte: MINVIR

**CERTIFICAT VO18147962**

Projet: KAN  
 Bon de commande #: KANDH18-002  
 Ce rapport s'applique aux 21 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 21-JUIN-2018.  
 Les résultats sont transmis à:

GLENN ASCH LEE SCHOLL	SIMON HEBERT LIZ STOCK	SIMON HOULE CORPORATIF WEBTRIEVE
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PRÉPARATION ÉCHANTILLONS	
CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

PROCÉDURES ANALYTIQUES		
CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 6-JUIL-2018  
 Compte: MINVIR

Projet: KAN

**CERTIFICAT D'ANALYSE VO18147962**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
458221		1.53	0.066	0.59	1.40	108.5	10	0.43	0.19	3.45	7.60	36.3	11.9	35	0.20	155.0
458222		1.27	0.285	0.59	1.68	19.7	10	0.47	0.14	3.37	8.49	36.6	9.1	27	0.17	117.0
458223		1.35	0.327	0.47	1.96	54.6	20	0.66	0.19	2.72	10.15	28.3	12.1	31	0.33	131.0
458224		1.29	0.322	0.61	2.21	88.4	30	0.81	0.13	3.06	5.87	38.4	13.8	37	0.39	188.0
458225		1.61	0.200	0.63	2.00	148.0	30	0.58	0.14	3.06	9.23	35.1	16.7	35	0.50	222
458226		0.89	0.125	3.85	4.54	181.0	50	1.62	0.46	1.67	18.80	45.1	33.6	88	4.33	149.0
458227		0.67	0.150	6.41	3.29	274	30	1.34	0.80	0.27	27.3	39.0	47.0	64	4.03	126.0
458228		0.71	0.063	2.53	6.14	108.5	50	1.94	0.27	0.31	12.05	49.4	48.2	78	3.70	253
458229		0.07	2.48	0.46	7.04	11.0	330	1.18	0.17	4.78	0.10	43.6	53.8	314	0.70	82.6
458230		0.66	0.023	2.38	5.74	41.6	140	1.69	0.37	0.32	4.24	64.4	35.4	90	2.74	433
458231		0.59	0.016	0.70	10.00	19.3	350	4.23	0.06	0.83	3.86	96.9	8.4	128	6.36	284
458232		0.67	0.068	2.90	1.80	33.7	30	0.46	0.35	3.67	9.37	46.7	28.6	37	1.08	479
458233		0.61	0.052	2.20	1.40	301	30	0.53	0.28	4.68	7.98	45.8	10.5	31	0.92	383
458234		0.40	0.082	2.51	2.08	351	100	1.21	0.34	2.32	18.10	51.0	5.7	62	2.50	320
458235		0.73	0.025	0.75	1.50	73.3	<10	0.49	0.18	3.37	2.07	37.3	7.8	29	0.19	130.0
458236		0.49	0.001	0.01	0.06	0.4	10	<0.05	0.01	34.8	0.03	1.29	0.7	3	<0.05	7.4
458237		0.72	0.016	0.99	1.25	38.3	10	0.43	0.15	3.43	2.30	36.5	9.3	27	0.19	245
458238		0.60	0.038	0.49	1.37	66.5	10	0.26	0.18	3.34	2.15	32.4	8.3	27	0.14	129.5
458239		0.69	0.088	0.76	1.47	115.5	10	0.23	0.26	2.96	8.24	40.9	13.7	30	0.21	173.5
458240		0.67	0.075	0.45	1.66	21.6	20	0.45	0.15	3.45	8.76	40.7	10.9	29	0.32	113.0
458241		0.72	0.054	0.47	1.47	21.6	20	0.38	0.13	3.35	7.80	41.4	9.9	30	0.25	103.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 6-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18147962**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
458221		23.9	4.98	0.09	0.8	0.124	0.025	0.04	18.8	23.6	2.02	13600	30.9	0.02	1.8	44.8
458222		22.8	5.75	0.07	0.7	0.126	0.022	0.03	17.7	31.8	1.83	14300	21.1	0.04	1.1	35.2
458223		19.45	6.43	0.06	0.8	0.133	0.032	0.11	12.5	33.4	1.56	13700	24.4	0.06	1.4	40.9
458224		20.5	7.06	0.09	0.9	0.094	0.023	0.17	18.3	34.1	1.70	15050	20.4	0.09	1.9	43.2
458225		22.6	6.35	0.08	1.1	0.159	0.053	0.30	16.6	24.4	1.78	12650	22.9	0.08	2.0	74.8
458226		16.25	12.10	0.13	1.8	0.804	0.117	1.81	29.6	20.1	0.98	815	100.0	0.15	5.2	247
458227		23.1	9.54	0.16	1.2	1.025	0.170	1.39	26.3	14.2	0.31	198	137.0	0.06	2.8	302
458228		19.05	16.85	0.13	2.7	0.343	0.090	2.33	28.5	24.8	0.64	449	47.5	0.16	7.4	206
458229		7.80	18.35	0.06	3.5	0.051	0.059	1.01	21.2	10.0	5.46	1040	3.16	2.04	29.8	359
458230		24.4	17.20	0.16	3.0	0.103	0.058	1.93	31.5	31.7	0.86	512	26.9	0.17	9.4	325
458231		9.94	28.8	0.16	8.5	0.077	0.087	3.99	53.5	38.3	0.99	683	11.20	0.28	29.5	89.7
458232		24.4	5.53	0.17	1.0	0.157	0.056	0.23	28.6	21.0	2.17	5810	109.5	0.01	2.6	277
458233		19.85	4.81	0.14	0.9	0.148	0.030	0.32	29.0	13.5	2.60	12400	98.1	0.03	2.5	199.0
458234		16.10	6.89	0.14	1.5	0.246	0.061	0.72	32.1	15.7	1.38	5790	146.5	0.03	3.6	183.0
458235		22.1	5.08	0.09	0.9	0.044	0.019	0.01	19.4	19.9	2.24	8770	30.8	0.06	1.8	53.8
458236		0.21	0.23	0.09	<0.1	<0.005	<0.005	0.01	1.4	0.6	1.97	171	0.44	0.03	0.1	0.4
458237		21.9	4.02	0.05	0.7	0.051	0.014	0.04	19.1	10.9	2.13	9700	28.8	0.10	1.6	83.4
458238		21.2	4.34	0.05	0.8	0.040	0.020	0.04	16.2	12.1	1.99	7950	28.9	0.01	2.1	39.4
458239		22.3	4.80	0.09	1.0	0.133	0.029	0.04	23.5	13.7	1.99	10800	39.1	0.01	2.1	53.7
458240		24.5	5.28	0.06	0.9	0.133	0.026	0.11	19.0	16.3	1.94	15800	25.6	0.03	2.0	32.5
458241		23.7	4.56	<0.05	0.7	0.138	0.025	0.09	19.4	13.9	1.90	15200	21.2	0.03	1.7	26.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 6-JUIL-2018  
 Compte: MINVIR

Projet: KAN

**CERTIFICAT D'ANALYSE VO18147962**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
458221		2800	15.1	2.3	0.025	3.01	2.35	2.8	8	<0.2	68.5	0.11	0.44	1.86	0.028	0.12
458222		2400	15.4	1.7	0.018	2.46	1.55	3.0	7	<0.2	69.4	0.08	0.22	1.95	0.026	0.09
458223		1750	14.7	6.2	0.020	2.85	1.49	3.3	8	0.2	62.4	0.09	0.34	1.87	0.028	0.27
458224		1810	12.9	9.4	0.019	2.97	1.61	3.9	6	0.2	68.7	0.11	0.45	2.13	0.035	0.44
458225		2040	13.4	10.2	0.015	4.63	2.06	4.5	8	0.3	65.7	0.14	0.36	2.09	0.050	0.49
458226		780	116.0	71.2	0.117	>10.0	21.7	11.0	15	1.5	42.7	0.33	1.30	4.02	0.154	5.18
458227		830	211	60.0	0.118	>10.0	37.0	7.4	15	1.2	18.4	0.22	2.14	3.46	0.074	5.89
458228		370	92.9	75.4	0.048	>10.0	10.15	10.6	14	1.6	32.9	0.46	0.58	5.06	0.154	5.20
458229		1820	5.2	31.7	<0.002	0.05	0.35	21.9	<1	1.3	478	1.69	0.08	2.75	1.055	0.08
458230		330	93.9	54.8	0.031	>10.0	5.13	10.6	9	1.5	35.0	0.54	0.53	5.87	0.138	3.60
458231		360	17.9	121.5	0.013	5.29	2.85	20.3	7	3.6	65.5	1.49	0.15	8.51	0.371	6.51
458232		3860	63.8	10.7	0.059	>10.0	10.55	4.0	20	0.5	71.2	0.15	0.61	2.16	0.054	0.78
458233		5210	51.7	14.3	0.054	8.54	9.52	3.6	15	0.3	93.9	0.16	0.54	1.85	0.032	0.88
458234		2570	59.6	34.9	0.085	7.79	12.75	5.2	16	0.9	56.9	0.24	0.54	3.05	0.047	1.76
458235		2780	14.1	0.7	0.019	3.72	2.35	2.7	8	<0.2	58.9	0.13	0.38	2.02	0.030	0.07
458236		60	0.7	0.2	<0.002	0.03	0.08	0.2	1	<0.2	78.1	<0.05	<0.05	0.06	<0.005	<0.02
458237		2580	18.7	2.0	0.023	5.48	2.83	2.5	12	<0.2	63.6	0.11	0.39	1.83	0.021	0.14
458238		2260	12.4	1.4	0.018	2.95	1.98	2.2	8	<0.2	59.1	0.14	0.45	1.74	0.030	0.09
458239		2920	18.4	1.6	0.037	4.07	3.06	2.7	14	<0.2	56.0	0.15	0.62	2.31	0.030	0.11
458240		2480	21.4	6.8	0.017	2.42	1.59	3.1	9	0.2	72.1	0.13	0.27	2.24	0.048	0.28
458241		2300	11.0	5.2	0.014	2.21	1.56	2.7	7	0.2	68.0	0.11	0.32	2.04	0.040	0.24



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 6-JUIL-2018  
 Compte: MINVIR

Projet: KAN

**CERTIFICAT D'ANALYSE VO18147962**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U	V	W	Y	Zn	Zr	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	0.01	0.01
458221		14.2	306	0.2	15.8	1120	34.4	85.7	97.3
458222		11.5	256	0.1	13.6	1280	29.6		96.7
458223		13.0	301	0.2	11.2	1500	33.0		
458224		12.3	336	0.2	11.7	1020	33.6		
458225		12.6	259	0.2	12.8	1520	41.7		
458226		37.5	1270	3.2	21.0	2980	69.2		
458227		60.0	1200	2.8	22.9	4180	49.3		
458228		21.7	723	2.0	12.0	1910	99.2		
458229		0.6	145	3.6	21.4	106	146.0		
458230		16.4	257	1.2	9.2	692	112.0		
458231		10.1	215	1.7	16.2	610	318		
458232		44.2	890	2.3	21.2	1410	41.6		
458233		40.3	876	0.9	25.0	1160	39.2		
458234		56.8	1270	1.2	24.3	2460	57.4		
458235		13.8	300	0.2	14.7	440	38.2		
458236		0.2	3	<0.1	2.3	6	1.3		
458237		15.5	297	0.2	14.6	413	33.1		
458238		12.1	277	0.1	13.4	434	36.1		
458239		20.6	440	0.2	18.8	1150	40.8		
458240		14.1	285	0.1	15.1	1560	35.1		
458241		11.5	248	0.1	13.8	1440	29.4		



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **6-JUIL-2018**  
 Compte: **MINVIR**

Projet: KAN

**CERTIFICAT D'ANALYSE VO18147962**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 22-JUIL-2018  
 Compte: MINVIR

**CERTIFICAT VO18154544**

Projet: Kan  
 Bon de commande #: KANDH18-004  
 Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.  
 Les résultats sont transmis à:

GLENN ASCH AUDREY ROUSSEL-LALIER CORPORATIF WEBTRIEVE	SIMON HEBERT LEE SCHOLL	SIMON HOULE LIZ STOCK
---	----------------------------	--------------------------

PRÉPARATION ÉCHANTILLONS	
CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

PROCÉDURES ANALYTIQUES		
CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 22-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154544**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
458261		2.34	0.001	0.11	0.20	0.6	<10	0.18	0.05	7.82	0.06	9.53	3.3	8	<0.05	28.7
458262		2.32	0.011	0.03	0.22	6.1	<10	0.21	0.04	5.12	0.06	11.20	3.5	8	<0.05	4.6
458263		1.59	0.006	0.24	8.06	8.2	330	2.60	0.13	0.33	3.07	75.2	21.1	98	3.84	89.0
458264		5.05	0.001	0.01	0.40	2.5	<10	0.35	0.02	6.01	0.03	14.05	7.1	15	<0.05	2.6
458265		2.75	0.008	0.19	0.62	12.7	20	0.33	0.09	6.00	0.07	17.15	10.4	17	0.15	52.2
458266		0.12	0.001	0.01	0.53	0.7	420	0.14	0.02	18.35	0.04	1.25	0.8	2	1.39	1.3
458267		3.24	0.009	0.55	8.31	3.3	320	3.40	0.31	0.63	0.95	65.0	13.2	103	4.04	136.5
458268		4.90	0.013	0.55	7.21	2.2	250	1.85	0.29	1.66	2.45	54.7	11.2	93	3.87	149.0
458269		0.08	2.49	0.43	6.68	11.8	330	1.22	0.17	4.77	0.10	42.9	50.4	310	0.66	79.8
458270		4.42	0.116	0.51	9.02	1.1	280	1.73	0.15	0.76	2.99	76.2	6.8	97	4.84	146.5
458271		4.72	0.037	0.57	7.76	39.6	190	1.38	0.36	1.24	4.87	64.7	40.6	78	4.06	131.0
458272		4.72	0.030	0.46	8.76	37.8	240	1.40	0.30	0.91	3.95	61.6	39.9	90	4.70	121.0
458273		4.63	0.035	0.58	8.57	52.6	240	1.30	0.41	1.54	2.45	67.9	29.0	90	4.37	114.5
458274		4.97	0.020	0.43	8.39	39.0	230	1.38	0.23	2.19	2.32	67.4	22.1	85	4.19	144.0
458275		4.14	0.018	0.39	9.25	36.9	260	1.27	0.19	0.67	2.54	64.5	24.2	106	4.18	115.0
458276		0.15	<0.001	0.01	0.08	0.8	100	<0.05	0.01	20.4	0.08	1.30	0.5	1	0.36	1.4
458277		4.67	0.019	0.43	8.85	43.1	280	1.15	0.16	1.14	2.56	56.7	24.3	117	3.91	143.5
458278		5.85	0.058	0.84	5.33	98.0	90	1.20	0.24	0.79	2.11	65.2	21.3	69	3.30	131.0
458279		0.07	7.69	1.36	6.02	33.8	320	0.94	0.54	2.97	0.07	31.0	40.0	314	0.67	112.0
458280		2.50	0.089	1.31	4.51	130.5	70	1.16	0.44	0.73	2.88	55.6	33.5	61	2.25	168.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 22-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18154544**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
458261		14.55	1.43	0.06	0.1	<0.005	0.009	0.01	5.6	5.5	4.13	4340	0.90	0.01	0.8	10.6
458262		17.25	1.68	<0.05	0.3	<0.005	0.005	0.01	6.5	7.4	3.41	5810	0.40	0.01	2.4	3.4
458263		8.72	21.8	0.15	6.9	0.151	0.128	4.03	42.1	22.7	0.69	162	8.64	0.13	20.8	58.8
458264		19.00	1.42	0.06	0.3	0.005	0.009	0.01	7.7	10.9	3.68	8730	0.35	<0.01	2.0	5.7
458265		18.50	2.21	0.07	0.4	0.013	0.017	0.13	9.4	10.2	3.24	8530	1.85	0.02	2.4	32.5
458266		0.34	1.17	<0.05	0.5	<0.005	<0.005	0.28	0.6	23.0	13.30	370	0.15	0.10	1.7	0.7
458267		13.65	23.3	0.12	5.6	0.084	0.105	4.18	34.8	24.7	0.86	273	11.30	0.13	12.6	87.3
458268		13.55	21.1	0.12	4.0	0.143	0.125	3.84	29.6	20.5	1.16	760	12.95	0.12	10.9	109.0
458269		7.38	17.80	0.08	3.2	0.053	0.062	0.98	21.7	8.8	5.50	1060	3.05	1.96	28.3	340
458270		12.30	24.1	0.13	4.4	0.112	0.113	4.51	44.1	17.8	0.81	176	19.75	0.15	12.8	119.5
458271		13.80	21.0	0.16	3.0	0.277	0.121	3.91	38.0	14.7	0.86	275	20.4	0.14	6.4	141.5
458272		11.60	23.0	0.14	3.6	0.297	0.126	4.33	35.7	15.9	0.78	201	10.50	0.16	6.3	128.5
458273		11.20	23.4	0.15	3.8	0.238	0.113	4.24	38.4	14.9	1.00	263	14.70	0.16	8.5	124.0
458274		10.50	21.8	0.15	3.8	0.189	0.116	4.11	40.0	15.9	1.31	378	11.30	0.15	9.8	121.0
458275		8.72	24.0	0.13	4.8	0.187	0.151	4.54	37.1	16.3	0.67	165	12.10	0.16	18.3	138.5
458276		0.16	0.26	<0.05	<0.1	0.006	<0.005	0.04	0.8	5.1	12.35	394	0.13	0.01	0.2	0.7
458277		10.40	22.2	0.13	4.3	0.237	0.153	4.46	31.6	17.9	0.89	278	11.80	0.15	15.5	161.0
458278		19.00	16.10	0.11	4.0	0.404	0.121	2.62	36.8	19.3	1.22	1360	15.70	0.08	14.0	141.5
458279		5.54	15.15	0.06	2.4	0.185	0.053	1.05	15.1	14.3	4.01	755	6.18	1.19	16.0	242
458280		21.8	14.95	0.13	2.6	0.526	0.160	2.01	31.3	23.2	0.92	530	20.2	0.06	10.2	138.0





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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 Finalisée date: 22-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18154544**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
458261		180	2.4	0.3	<0.002	2.10	0.27	0.5	1	<0.2	90.0	<0.05	0.21	0.17	0.006	<0.02
458262		230	1.2	0.2	<0.002	0.37	0.09	0.5	<1	<0.2	56.1	0.15	0.06	0.35	0.009	<0.02
458263		300	17.2	97.5	0.005	5.27	3.86	15.5	2	3.3	18.5	1.25	0.25	6.87	0.289	3.55
458264		410	1.1	0.2	<0.002	0.16	0.23	1.2	<1	<0.2	66.2	0.09	<0.05	0.70	0.029	0.02
458265		540	4.4	3.6	0.002	3.07	0.80	1.6	2	0.2	90.4	0.11	0.26	0.77	0.031	0.12
458266		50	1.3	6.2	<0.002	0.08	0.07	0.2	<1	0.2	148.5	0.12	<0.05	0.05	0.010	0.33
458267		370	24.9	102.0	0.013	8.04	6.12	17.7	3	4.0	26.4	0.80	0.56	5.70	0.261	3.57
458268		380	27.8	79.1	0.016	8.10	6.80	18.4	4	3.4	46.3	0.63	0.48	4.45	0.269	3.61
458269		1860	5.0	30.3	<0.002	0.04	0.34	19.5	<1	1.2	472	1.53	0.08	2.69	1.025	0.07
458270		290	20.6	102.5	0.018	7.56	6.28	16.1	6	2.7	30.9	0.76	0.20	6.57	0.249	4.65
458271		330	34.4	88.5	0.026	9.94	11.15	13.0	6	1.8	38.4	0.33	0.58	5.19	0.185	4.47
458272		220	30.1	95.4	0.013	8.59	8.80	18.2	5	1.9	35.2	0.34	0.53	4.78	0.254	4.80
458273		230	43.5	91.4	0.018	8.68	11.00	14.6	4	1.9	47.1	0.47	0.62	5.51	0.236	5.10
458274		240	29.9	92.6	0.013	7.56	7.59	15.9	4	2.1	58.7	0.58	0.35	5.49	0.260	4.55
458275		490	30.0	98.4	0.012	6.69	7.75	24.1	2	2.7	36.9	1.14	0.22	5.23	0.474	4.91
458276		30	1.2	1.2	<0.002	0.04	0.11	0.2	<1	<0.2	187.5	<0.05	<0.05	0.07	0.005	0.09
458277		400	33.2	95.2	0.017	7.88	9.06	23.1	2	2.7	52.9	0.97	0.28	4.67	0.428	4.51
458278		300	64.4	65.0	0.020	>10.0	17.40	9.9	4	2.4	32.9	0.91	0.86	5.79	0.183	3.59
458279		1110	9.8	38.4	<0.002	0.10	0.80	19.3	<1	1.0	274	0.94	0.25	2.36	0.677	0.22
458280		250	89.4	54.9	0.029	>10.0	24.2	8.5	7	3.8	33.4	0.66	1.73	5.01	0.138	3.24



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18154544**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
458261		0.3	17	<0.1	5.2	25	6.1
458262		0.2	18	0.2	5.5	16	11.1
458263		10.1	131	1.7	18.1	661	256
458264		0.4	26	0.2	6.0	15	14.1
458265		0.9	32	0.4	6.1	39	17.0
458266		0.3	3	0.1	1.0	12	11.5
458267		12.5	162	2.1	15.7	211	205
458268		11.9	160	1.6	12.3	593	155.5
458269		0.6	145	3.1	20.4	110	137.0
458270		16.5	252	1.6	13.7	784	173.0
458271		16.5	256	1.4	9.8	1240	109.0
458272		11.5	175	1.4	9.9	1050	134.5
458273		13.8	205	1.3	10.7	671	142.0
458274		11.6	166	1.3	11.6	633	148.5
458275		18.5	191	1.4	14.8	825	183.5
458276		0.3	3	0.2	0.6	22	1.8
458277		17.5	192	1.4	13.1	845	161.0
458278		13.5	176	1.0	13.4	712	153.5
458279		0.6	145	9.3	14.3	88	97.3
458280		10.8	169	1.0	10.9	898	99.8



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Page: **Annexe 1**  
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 Finalisée date: **22-JUIL-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18154544**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT VO18154559**

Projet: Kan  
 Bon de commande #: KANDH18-005  
 Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.

Les résultats sont transmis à:

GLENN ASCH  
 SIMON HOULE  
 LIZ STOCK

PAUL DOBAK  
 AUDREY ROUSSEL-LALIER  
 CORPORATIF WEBTRIEVE

SIMON HEBERT  
 LEE SCHOLL

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Commentaire: \*\*\*Corrected copy- changed sample type for sample 458295 to Drill Core and sample 458296 to Crushed Rock\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18154559**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
458281		3.74	0.086	1.32	4.64	126.5	130	1.55	0.57	0.77	3.23	44.2	59.4	80	2.01	199.0
458282		1.63	0.002	0.01	0.21	57.2	10	0.50	0.02	1.62	0.02	16.75	4.0	9	<0.05	10.1
458283		2.50	0.004	0.05	0.30	1.7	<10	0.64	0.02	6.18	0.02	12.10	5.7	10	0.06	1.8
458284		2.52	0.003	<0.01	0.29	2.2	10	0.51	0.02	9.96	0.03	11.15	5.0	9	0.37	1.8
458285		2.58	0.004	0.01	0.19	1.2	10	0.39	0.01	4.25	0.04	8.76	4.4	6	0.52	0.8
458286		2.65	0.004	0.02	0.22	1.9	10	0.45	0.04	6.66	0.02	8.63	7.0	7	0.94	2.7
458287		1.99	0.012	<0.01	0.12	0.9	10	0.49	0.02	1.17	0.05	7.41	6.1	6	2.28	0.9
458288		2.63	0.124	<0.01	0.21	0.7	10	0.26	0.01	0.90	0.09	2.79	3.6	5	5.01	2.2
458289		0.09	0.670	0.17	7.28	17.7	330	1.38	0.13	4.33	0.17	47.1	43.9	177	1.85	51.4
458290		2.62	0.048	0.10	0.04	0.3	<10	0.64	0.01	1.89	0.03	5.21	2.9	3	0.75	0.7
458291		2.73	0.001	<0.01	0.02	0.4	<10	0.56	0.01	1.69	0.02	6.48	3.7	3	0.32	0.5
458292		2.58	<0.001	<0.01	0.03	0.5	<10	0.45	0.01	1.82	0.05	5.23	3.6	3	0.53	0.4
458293		2.67	0.010	<0.01	0.15	0.6	10	0.34	0.02	1.22	0.04	7.38	3.7	8	0.45	2.3
458294		2.61	<0.001	0.01	0.12	0.4	10	0.31	0.01	1.13	0.05	6.19	3.3	6	0.43	1.3
458295		2.16	<0.001	<0.01	0.03	0.5	<10	0.11	0.01	0.59	0.06	2.33	1.5	21	0.57	0.5
458296		0.17	0.035	<0.01	0.07	1.0	90	<0.05	0.02	18.25	0.07	1.42	0.7	2	0.42	0.6
458297		3.03	0.102	<0.01	0.16	0.5	10	0.22	0.01	1.09	0.11	4.87	3.1	5	1.55	1.6
458298		2.84	1.550	0.03	0.31	0.4	20	0.21	0.01	1.61	0.22	6.96	4.9	2	1.89	7.7
458299		0.08	2.49	0.49	7.01	11.0	330	0.81	0.16	4.94	0.07	46.7	56.6	330	0.71	84.6
458300		2.80	0.008	<0.01	0.12	1.0	10	0.23	0.01	1.11	0.10	8.58	4.2	1	0.92	0.6

Commentaire: \*\*\*Corrected copy- changed sample type for sample 458295 to Drill Core and sample 458296 to Crushed Rock\*\*\*

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
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**CERTIFICAT D'ANALYSE VO18154559**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
458281		23.5	15.65	0.20	2.1	0.615	0.176	1.93	23.5	28.6	1.04	747	13.85	0.06	5.9	94.2
458282		22.1	1.01	0.13	0.1	0.022	0.009	0.02	8.4	2.0	2.60	11050	0.43	<0.01	1.9	5.3
458283		20.9	1.11	0.10	0.2	0.009	0.005	0.01	6.7	3.7	3.87	9950	0.48	<0.01	2.6	3.8
458284		19.70	1.26	0.09	0.2	0.010	<0.005	0.02	6.5	1.9	5.00	8720	0.39	0.01	2.0	2.9
458285		21.3	0.86	0.08	0.1	<0.005	<0.005	0.02	4.8	1.2	3.46	9860	0.37	0.01	1.6	2.6
458286		20.3	0.99	0.09	0.1	0.009	<0.005	0.02	5.0	1.1	4.02	8780	0.58	0.01	1.6	3.7
458287		27.6	0.77	0.11	0.1	<0.005	0.006	0.04	4.4	0.6	3.57	10350	0.38	0.01	1.7	3.8
458288		21.8	0.90	0.09	<0.1	<0.005	<0.005	0.08	1.8	0.6	3.01	5510	0.08	0.03	0.4	1.8
458289		7.19	19.20	0.11	3.7	0.025	0.067	0.87	20.7	14.3	2.83	894	1.64	1.69	18.9	141.5
458290		25.7	0.40	0.10	<0.1	0.009	<0.005	0.01	3.4	0.4	3.63	7220	0.07	0.01	0.5	1.2
458291		28.0	0.33	0.12	<0.1	<0.005	<0.005	0.01	4.5	0.5	4.19	5450	<0.05	<0.01	0.5	1.1
458292		29.8	0.33	0.11	<0.1	<0.005	<0.005	0.01	3.6	0.5	4.38	5360	<0.05	<0.01	0.4	0.7
458293		25.7	0.69	0.10	0.1	<0.005	<0.005	0.06	4.9	1.0	3.71	4760	0.07	0.01	0.6	1.5
458294		25.3	0.53	0.09	0.1	0.006	<0.005	0.04	4.1	0.7	3.68	5050	0.08	0.01	0.6	1.3
458295		12.10	0.23	0.05	<0.1	0.007	<0.005	0.01	1.5	0.4	1.76	2630	0.09	0.01	0.1	0.8
458296		0.29	0.25	<0.05	0.1	<0.005	<0.005	0.03	0.7	12.0	13.10	264	0.07	0.04	0.2	0.2
458297		23.5	0.66	0.10	<0.1	0.006	<0.005	0.04	3.2	1.3	3.41	5070	<0.05	0.01	0.3	0.6
458298		28.7	0.97	<0.05	<0.1	0.015	0.006	0.09	4.8	1.7	4.18	6390	0.08	<0.01	0.6	1.7
458299		7.67	17.90	0.07	3.2	0.044	0.063	1.01	23.3	5.1	5.66	1080	3.01	2.05	30.6	365
458300		30.5	0.69	0.13	<0.1	<0.005	<0.005	0.03	5.8	1.7	4.43	4260	0.05	<0.01	0.7	0.9

Commentaire: \*\*\*Corrected copy- changed sample type for sample 458295 to Drill Core and sample 458296 to Crushed Rock\*\*\*

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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18154559**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
458281		270	95.9	50.4	0.014	>10.0	23.1	9.4	9	5.3	36.6	0.39	2.53	3.67	0.144	2.53
458282		890	<0.5	0.5	<0.002	0.60	0.26	0.7	1	<0.2	22.1	0.08	0.09	0.36	0.018	0.03
458283		620	0.8	0.2	<0.002	0.05	0.17	0.7	<1	<0.2	40.2	0.11	<0.05	0.50	0.025	<0.02
458284		600	1.4	0.8	<0.002	0.15	0.19	0.6	1	<0.2	64.0	0.08	<0.05	0.48	0.022	0.02
458285		530	0.6	0.7	<0.002	0.08	0.18	0.4	<1	<0.2	31.5	0.07	<0.05	0.30	0.017	<0.02
458286		500	1.1	0.8	<0.002	0.50	0.12	0.5	1	<0.2	46.2	0.06	0.07	0.34	0.019	<0.02
458287		390	<0.5	1.7	<0.002	0.14	0.11	0.4	<1	<0.2	16.8	0.07	<0.05	0.28	0.018	<0.02
458288		110	<0.5	3.6	<0.002	0.38	0.09	0.1	1	<0.2	18.8	<0.05	<0.05	0.05	<0.005	<0.02
458289		1150	13.3	38.6	<0.002	0.02	0.98	19.1	1	1.6	347	1.23	<0.05	4.88	0.903	0.18
458290		150	<0.5	0.6	<0.002	0.11	0.06	0.1	<1	<0.2	30.6	<0.05	<0.05	0.04	<0.005	<0.02
458291		100	<0.5	0.3	<0.002	0.03	0.10	0.1	1	<0.2	25.5	<0.05	<0.05	0.05	<0.005	<0.02
458292		210	<0.5	0.4	<0.002	0.03	0.05	0.1	1	<0.2	31.9	<0.05	<0.05	0.04	<0.005	<0.02
458293		160	0.6	3.2	<0.002	0.09	0.10	0.3	1	<0.2	20.8	<0.05	<0.05	0.34	0.008	0.02
458294		160	<0.5	2.2	<0.002	0.02	0.09	0.2	<1	<0.2	18.2	<0.05	<0.05	0.25	0.008	<0.02
458295		70	<0.5	0.5	<0.002	0.09	0.09	0.1	<1	<0.2	14.3	<0.05	<0.05	0.03	<0.005	<0.02
458296		20	1.2	1.4	<0.002	<0.01	0.12	0.2	1	<0.2	131.5	<0.05	<0.05	0.13	0.006	0.06
458297		90	<0.5	1.7	<0.002	0.24	0.08	0.1	1	<0.2	31.3	<0.05	<0.05	0.05	<0.005	0.02
458298		70	1.4	3.9	<0.002	0.72	0.10	0.2	1	<0.2	57.2	<0.05	<0.05	0.08	<0.005	0.09
458299		1890	5.2	32.9	<0.002	0.04	0.35	24.0	<1	1.2	491	1.63	0.09	2.53	1.090	0.06
458300		60	<0.5	1.4	<0.002	0.08	0.06	0.1	1	<0.2	25.0	<0.05	<0.05	0.06	<0.005	0.03

Commentaire: \*\*\*Corrected copy- changed sample type for sample 458295 to Drill Core and sample 458296 to Crushed Rock\*\*\*

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154559**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
458281		6.1	119	1.1	8.9	1040	84.9
458282		0.2	14	0.1	5.0	13	5.7
458283		0.9	18	0.2	6.2	9	7.7
458284		1.6	15	0.3	7.0	12	8.4
458285		0.5	11	0.2	5.1	9	5.0
458286		0.9	14	0.2	5.5	10	6.2
458287		0.4	9	0.2	4.2	18	5.3
458288		<0.1	12	0.3	3.0	25	1.9
458289		1.1	146	2.1	19.6	127	145.5
458290		<0.1	5	0.2	5.1	11	2.2
458291		<0.1	7	0.2	5.6	9	1.9
458292		<0.1	6	0.2	4.6	13	1.5
458293		0.1	7	0.2	4.3	15	3.9
458294		0.1	6	0.2	3.6	13	3.5
458295		<0.1	3	0.1	2.0	12	1.1
458296		0.2	2	0.2	1.0	13	1.9
458297		<0.1	7	0.2	3.8	26	2.1
458298		0.1	15	0.1	5.4	39	3.0
458299		0.6	151	3.1	23.0	108	147.5
458300		0.1	13	0.1	4.1	27	3.3

Commentaire: \*\*\*Corrected copy- changed sample type for sample 458295 to Drill Core and sample 458296 to Crushed Rock\*\*\*

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Page: **Annexe 1**  
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Finalisée date: **21-JUIL-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154559**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 20-JUIL-2018  
Compte: MINVIR

## CERTIFICAT VO18154562

Projet: Kan

Bon de commande #: KANDH18-006

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.

Les résultats sont transmis à:

GLENN ASCH  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

SIMON HOULE  
LIZ STOCK

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154562**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
458301		2.95	0.146	0.03	0.39	15.6	40	0.40	0.01	3.49	0.29	9.27	3.3	2	2.72	5.1
458302		2.76	0.207	0.01	0.14	2.2	20	0.26	0.01	1.71	0.16	9.94	3.8	1	0.99	2.0
458303		2.57	0.007	0.02	0.37	1.6	10	0.36	0.01	1.25	0.05	9.83	4.9	15	0.84	4.5
458304		2.05	0.003	0.04	1.09	12.9	20	0.70	0.04	1.36	0.08	20.4	10.0	29	3.61	11.3
458305		5.21	0.004	0.31	6.76	4.8	280	3.44	0.13	0.28	0.18	57.6	21.4	92	14.35	27.6
458306		4.62	0.006	0.37	7.72	7.1	320	2.68	0.16	0.26	0.29	67.3	21.8	98	10.50	52.6
458307		4.13	0.002	0.42	7.89	2.9	320	2.04	0.19	0.23	2.10	46.2	18.6	81	7.37	102.5
458308		4.49	0.003	0.41	8.19	11.3	330	2.06	0.19	0.25	1.36	50.2	19.8	80	7.63	95.1
458309		0.07	7.68	1.36	6.13	35.0	310	1.02	0.49	2.96	0.07	30.4	42.2	322	0.67	115.5
458310		4.35	0.031	0.38	8.17	11.1	340	1.98	0.18	0.19	1.17	47.6	19.4	83	7.97	92.0
458311		4.75	0.010	0.37	8.29	5.4	340	2.04	0.19	0.24	1.20	53.3	15.4	84	8.13	76.7
458312		4.84	0.006	0.39	8.24	4.5	350	2.18	0.20	0.23	1.78	41.2	18.4	83	7.72	90.0
458313		4.10	0.002	0.27	8.28	7.5	380	2.87	0.20	0.13	1.64	66.8	20.7	99	11.20	58.9
458314		5.15	0.011	0.31	7.12	21.9	290	4.27	0.14	0.26	0.30	62.9	21.8	96	15.90	31.5
458315		3.91	0.003	0.01	0.06	1.2	70	0.06	0.02	20.1	0.04	1.29	0.5	2	0.46	2.9
458316		0.11	0.002	0.05	0.66	2.1	20	0.69	0.05	1.24	0.35	15.55	7.7	19	3.35	7.6
458317		3.93	0.007	0.29	7.23	23.1	300	6.55	0.19	0.21	0.18	63.6	23.2	94	18.20	24.3
458318		2.49	0.004	0.22	5.87	0.6	120	2.70	0.13	0.86	0.30	48.2	22.4	73	17.85	31.5
458319		0.08	0.674	0.22	7.42	19.6	330	1.57	0.17	4.54	0.18	53.2	44.6	188	2.02	58.7
458320		2.20	0.023	0.18	6.25	1.3	210	3.57	0.10	1.21	0.37	52.4	22.7	81	22.1	30.1



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154562**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
458301		27.3	1.26	<0.05	0.3	0.005	0.008	0.19	5.7	3.8	4.56	7630	0.05	0.01	1.6	1.6
458302		30.4	0.58	<0.05	0.1	0.009	0.006	0.06	7.2	1.4	4.68	6770	0.13	<0.01	0.7	1.5
458303		20.6	1.37	<0.05	0.3	<0.005	0.010	0.05	5.7	1.7	2.78	10300	0.20	<0.01	2.5	6.1
458304		26.1	3.74	<0.05	0.7	<0.005	0.022	0.34	10.5	4.7	3.27	14250	0.47	0.01	6.0	13.6
458305		11.30	18.40	0.08	1.8	0.005	0.057	4.44	29.2	42.4	1.47	734	1.47	0.04	15.5	54.1
458306		9.84	20.0	0.09	2.2	0.013	0.062	4.91	35.2	46.4	1.26	538	2.24	0.05	16.7	59.3
458307		9.55	19.50	0.08	1.8	0.028	0.050	4.83	24.6	42.5	1.16	588	4.89	0.05	6.9	51.4
458308		8.56	20.2	0.08	2.0	0.031	0.050	4.91	27.3	43.8	1.10	393	4.79	0.05	7.4	55.4
458309		5.56	14.40	0.06	2.2	0.168	0.048	1.06	16.1	14.6	4.00	750	5.90	1.20	16.8	250
458310		8.21	20.3	0.08	2.1	0.036	0.052	4.62	25.5	41.9	1.03	277	3.73	0.05	7.5	53.4
458311		7.75	20.2	0.09	2.1	0.032	0.057	4.87	29.0	45.3	1.11	362	3.80	0.05	7.4	51.3
458312		8.40	19.95	0.08	1.9	0.030	0.054	4.65	21.6	45.8	1.05	473	4.31	0.05	7.2	53.5
458313		7.99	20.6	0.09	2.0	0.012	0.057	4.91	36.7	56.7	1.17	372	1.68	0.05	11.5	50.7
458314		10.60	19.60	0.09	2.0	<0.005	0.063	4.65	32.5	61.9	1.48	350	1.41	0.04	17.3	56.4
458315		0.18	0.21	0.11	<0.1	<0.005	<0.005	0.04	0.8	7.3	13.40	428	0.08	0.01	0.2	0.7
458316		18.70	2.90	0.09	0.4	<0.005	0.015	0.48	8.4	8.7	2.14	11050	0.65	<0.01	3.9	10.5
458317		10.15	25.5	0.12	2.0	0.005	0.062	4.81	32.8	68.9	1.54	477	2.88	0.04	14.8	58.1
458318		15.85	22.4	0.12	1.7	<0.005	0.036	2.76	24.8	60.7	2.49	1130	1.75	0.02	11.6	40.2
458319		7.46	20.7	0.11	3.9	0.023	0.070	0.90	24.3	15.9	2.97	956	1.90	1.74	20.7	140.5
458320		14.05	20.6	0.11	1.7	<0.005	0.049	3.78	26.8	64.9	2.10	1280	3.09	0.03	13.7	50.9



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Page: 2 - C  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18154562**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
458301		90	2.3	8.1	<0.002	0.52	0.16	0.3	1	<0.2	149.5	0.13	0.06	0.35	0.006	0.23
458302		40	0.9	2.3	<0.002	0.16	0.18	0.2	<1	<0.2	47.5	<0.05	<0.05	0.12	<0.005	0.06
458303		330	1.3	2.6	<0.002	0.15	0.10	1.2	1	<0.2	27.6	0.14	<0.05	0.42	0.045	0.07
458304		550	2.1	18.3	<0.002	0.36	0.27	3.3	1	0.3	34.3	0.37	0.10	1.13	0.127	0.27
458305		250	14.5	196.5	0.006	2.72	1.75	12.6	2	1.3	37.0	0.85	0.06	7.22	0.293	1.21
458306		390	19.1	204	0.008	3.05	2.22	13.5	3	1.4	40.2	1.00	0.10	9.11	0.350	1.15
458307		160	15.0	171.5	0.011	3.20	1.91	10.8	4	1.2	31.7	0.52	0.16	8.17	0.259	1.06
458308		160	14.6	180.0	0.012	3.12	1.92	11.9	4	1.4	36.6	0.55	0.14	9.23	0.265	1.01
458309		1100	9.9	39.4	<0.002	0.08	0.78	21.7	1	0.9	278	0.86	0.24	2.29	0.676	0.20
458310		150	14.2	161.5	0.013	3.11	1.87	12.4	4	1.4	33.3	0.55	0.12	9.06	0.274	1.02
458311		150	13.7	168.5	0.013	2.73	1.88	12.0	3	1.4	36.3	0.55	0.11	9.53	0.277	1.03
458312		220	13.8	149.5	0.012	2.89	1.77	11.2	3	1.3	31.0	0.53	0.14	8.00	0.272	1.05
458313		190	13.7	191.0	0.006	1.99	1.51	13.0	3	1.4	27.6	0.74	0.10	9.62	0.310	1.15
458314		260	18.2	200	0.007	2.62	1.73	13.3	2	1.4	37.2	0.93	0.09	8.00	0.327	1.20
458315		10	2.6	1.8	<0.002	0.01	0.16	0.2	1	<0.2	200	<0.05	<0.05	0.13	<0.005	0.07
458316		410	2.5	27.6	<0.002	0.53	0.27	2.0	1	0.2	60.4	0.20	<0.05	0.99	0.058	0.24
458317		240	16.5	218	0.007	2.07	1.80	14.0	2	1.6	30.3	0.87	0.10	9.22	0.292	1.53
458318		180	12.7	157.0	0.004	2.63	1.06	12.0	2	0.9	71.8	0.70	0.08	7.17	0.224	1.35
458319		1160	14.5	42.4	<0.002	0.02	1.06	21.9	1	1.7	358	1.24	<0.05	6.04	0.929	0.21
458320		210	9.2	198.5	0.008	2.17	0.93	12.2	2	1.2	110.5	0.73	0.09	7.83	0.249	1.66



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 20-JUIL-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154562**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
458301		0.1	15	0.2	11.2	42	13.5
458302		0.1	12	0.1	5.6	34	5.4
458303		0.3	27	0.2	4.3	16	11.8
458304		0.8	64	0.3	6.5	20	33.0
458305		5.2	217	1.6	7.5	127	77.3
458306		5.7	232	1.6	8.9	195	89.4
458307		2.9	190	1.3	5.5	307	68.1
458308		3.6	218	1.2	6.5	243	75.8
458309		0.6	143	8.5	15.0	84	99.5
458310		3.9	232	1.1	6.3	216	79.8
458311		3.8	236	1.1	6.3	224	79.4
458312		3.3	224	1.2	5.3	282	73.4
458313		4.2	201	1.8	6.7	192	77.7
458314		5.6	232	1.8	7.5	154	84.6
458315		0.3	2	0.2	0.5	12	1.0
458316		0.6	41	0.2	5.2	27	17.3
458317		5.8	223	2.6	8.5	98	69.6
458318		4.3	178	0.6	6.6	143	57.8
458319		1.1	148	2.1	21.5	134	143.0
458320		4.1	189	1.3	7.2	109	60.8



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **20-JUIL-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154562**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 20-JUIL-2018  
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**CERTIFICAT VO18154564**

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Bon de commande #: KANDH18-007  
Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.

Les résultats sont transmis à:

GLENN ASCH  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

SIMON HOULE  
LIZ STOCK

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154564**

Description échantillon	Méthode	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	élément	Poids reçu	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	unités	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LDI	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
458321		4.64	0.014	0.20	6.73	4.1	300	4.12	0.20	0.31	0.11	58.1	25.3	95	22.6	28.3
458322		4.74	0.009	0.17	6.82	0.7	330	3.68	0.14	0.28	0.14	54.7	20.9	96	24.1	22.9
458323		4.96	0.012	0.21	6.66	1.2	330	3.45	0.16	0.20	0.10	41.2	22.5	97	24.2	25.2
458324		5.01	0.015	0.32	7.26	0.7	360	4.06	0.19	0.12	0.09	56.1	22.5	101	20.2	29.3
458325		3.93	0.016	0.37	7.19	0.7	330	4.49	0.18	0.40	0.18	76.7	23.6	98	20.7	36.6
458326		3.58	0.003	0.02	0.10	1.2	10	0.34	0.02	0.98	0.19	13.10	3.1	19	0.44	2.2
458327		2.75	0.001	0.01	0.03	0.8	10	0.41	0.02	0.80	0.06	6.88	2.6	5	0.16	0.8
458328		2.75	0.002	<0.01	0.04	<0.2	10	0.47	0.02	1.04	0.02	6.40	2.8	1	0.68	0.7
458329		0.06	2.51	0.45	6.85	11.2	320	1.10	0.19	4.84	0.07	45.5	52.4	300	0.68	84.1
458330		2.63	<0.001	<0.01	0.03	0.5	<10	0.56	0.01	0.91	0.02	6.88	2.4	4	0.70	0.6
458331		2.81	<0.001	<0.01	0.02	0.2	<10	0.42	0.01	0.81	<0.02	6.98	2.4	6	0.57	0.4
458332		2.74	0.038	0.12	0.03	0.2	10	0.70	0.02	0.98	0.03	5.99	4.5	4	0.45	4.6
458333		2.29	<0.001	0.01	0.02	<0.2	<10	0.66	0.01	0.86	0.03	3.51	2.2	9	0.30	0.4
458334		2.95	<0.001	<0.01	0.02	0.3	<10	0.73	0.01	0.94	<0.02	5.66	2.4	6	0.61	0.4
458335		2.43	<0.001	<0.01	0.02	0.3	<10	0.42	0.01	0.75	<0.02	4.43	1.9	21	0.74	0.6
458336		0.12	<0.001	<0.01	0.05	0.3	40	0.07	0.01	21.1	0.03	2.30	0.6	1	0.37	0.8
458337		2.70	0.001	<0.01	0.02	1.0	<10	0.51	0.01	1.28	<0.02	6.49	2.6	3	0.66	0.6
458338		2.71	1.400	0.23	0.33	0.5	10	0.30	0.01	1.73	0.20	7.94	4.2	6	4.64	10.5
458339		0.07	7.56	1.31	6.08	32.8	310	0.82	0.55	2.97	0.07	31.7	42.1	314	0.66	112.5
458340		2.36	0.079	0.17	0.85	1.3	20	0.30	0.08	3.28	0.85	18.30	9.7	16	3.44	46.3



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18154564**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
458321		12.20	20.2	0.11	2.0	<0.005	0.052	4.55	29.9	61.8	1.61	823	0.80	0.04	14.9	72.9
458322		11.70	20.8	0.12	2.0	<0.005	0.058	4.78	27.2	63.0	1.55	915	0.77	0.04	15.2	50.3
458323		11.35	20.6	0.11	2.0	<0.005	0.059	4.73	18.8	60.1	1.44	627	0.73	0.03	15.3	54.1
458324		9.80	22.2	0.11	2.3	0.005	0.062	4.90	27.7	58.8	1.28	231	0.93	0.04	16.6	56.3
458325		10.75	22.1	0.13	2.6	0.013	0.057	4.83	38.1	60.9	1.55	259	1.94	0.04	21.8	61.2
458326		25.5	0.59	0.08	0.1	0.006	<0.005	0.05	7.0	1.1	2.52	7320	0.13	0.01	0.9	2.4
458327		27.6	0.31	0.06	<0.1	0.005	<0.005	0.02	3.8	0.5	2.62	7360	0.09	<0.01	0.5	1.3
458328		35.4	0.34	0.08	<0.1	<0.005	<0.005	0.02	3.7	0.5	3.63	8440	0.08	0.01	0.8	1.1
458329		7.51	19.00	0.08	3.4	0.063	0.062	0.99	22.6	8.3	5.55	1060	3.09	2.00	29.0	356
458330		25.2	0.28	0.07	<0.1	<0.005	<0.005	0.01	3.9	0.3	2.85	5650	0.10	0.01	0.5	1.3
458331		20.5	0.25	0.06	<0.1	<0.005	<0.005	0.01	3.9	0.4	2.48	4560	0.08	0.01	0.5	1.1
458332		31.5	0.31	0.08	<0.1	0.010	0.006	0.01	3.3	0.5	3.52	7140	0.24	<0.01	0.7	5.2
458333		22.8	0.26	<0.05	<0.1	0.005	<0.005	0.01	1.9	0.5	2.65	5110	0.08	<0.01	0.6	1.0
458334		24.3	0.28	0.06	<0.1	<0.005	<0.005	0.01	3.3	0.3	2.78	5480	0.10	0.01	0.5	1.1
458335		19.20	0.27	0.05	<0.1	<0.005	<0.005	0.01	2.6	0.3	2.20	4240	0.19	0.01	0.5	1.3
458336		0.41	0.26	<0.05	0.1	<0.005	<0.005	0.02	1.0	8.7	13.40	378	0.12	0.03	0.2	0.4
458337		32.0	0.30	0.06	<0.1	0.006	<0.005	0.01	3.7	0.3	3.35	8180	0.09	0.01	0.6	1.4
458338		31.0	1.56	0.07	<0.1	0.024	0.005	0.07	4.6	1.5	3.50	8280	0.12	0.01	1.0	3.3
458339		5.57	16.15	0.06	2.4	0.185	0.046	1.07	15.9	14.7	4.02	756	6.39	1.20	17.6	253
458340		24.6	3.16	0.08	0.3	0.008	0.019	0.31	11.0	6.8	3.32	9840	1.57	0.01	2.7	14.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18154564**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
458321		280	13.1	223	0.004	1.98	1.41	13.7	1	1.4	36.2	0.87	0.09	8.35	0.297	1.98
458322		240	10.5	226	0.003	1.74	1.22	13.8	1	1.4	32.9	0.88	0.06	8.16	0.300	2.17
458323		260	11.6	193.5	0.004	1.91	1.37	12.9	1	1.4	24.2	0.91	0.06	6.54	0.301	2.15
458324		230	22.2	202	0.008	2.46	2.36	14.9	1	1.6	19.2	1.12	0.08	8.94	0.333	1.80
458325		320	24.9	213	0.009	2.91	2.72	14.6	2	1.7	37.4	1.30	0.10	10.60	0.350	1.74
458326		130	0.7	2.9	<0.002	0.19	0.12	0.3	<1	<0.2	28.9	<0.05	<0.05	0.13	<0.005	0.05
458327		160	<0.5	0.8	<0.002	0.08	0.07	0.1	<1	<0.2	14.8	<0.05	<0.05	0.07	<0.005	0.02
458328		100	<0.5	1.4	<0.002	0.03	0.06	0.2	<1	<0.2	21.8	<0.05	<0.05	0.08	<0.005	<0.02
458329		1880	4.9	32.4	<0.002	0.03	0.37	21.9	<1	1.3	481	1.67	0.07	3.26	1.065	0.07
458330		200	<0.5	1.0	<0.002	0.02	0.05	0.2	<1	<0.2	21.3	<0.05	<0.05	0.05	<0.005	<0.02
458331		180	<0.5	0.9	<0.002	0.01	0.05	0.1	<1	<0.2	14.4	<0.05	<0.05	0.05	<0.005	<0.02
458332		80	<0.5	0.9	<0.002	0.38	0.10	0.2	<1	<0.2	14.2	<0.05	<0.05	0.06	<0.005	<0.02
458333		30	<0.5	0.8	<0.002	0.02	0.05	0.1	<1	<0.2	10.8	<0.05	<0.05	0.05	<0.005	<0.02
458334		220	<0.5	0.8	<0.002	0.01	0.06	0.2	1	<0.2	9.7	<0.05	<0.05	0.05	<0.005	<0.02
458335		110	<0.5	0.9	<0.002	0.01	0.07	0.1	<1	<0.2	7.8	<0.05	<0.05	0.05	<0.005	<0.02
458336		20	0.7	0.9	<0.002	<0.01	0.07	0.1	1	<0.2	152.0	<0.05	<0.05	0.11	<0.005	0.06
458337		140	<0.5	0.8	<0.002	0.03	0.12	0.2	<1	<0.2	18.4	<0.05	<0.05	0.05	<0.005	<0.02
458338		190	0.7	5.8	<0.002	0.75	0.08	0.6	1	<0.2	61.6	<0.05	<0.05	0.09	<0.005	0.03
458339		1090	9.7	38.4	<0.002	0.08	0.87	21.6	<1	1.0	278	0.96	0.23	2.76	0.679	0.20
458340		630	4.9	21.0	0.003	1.50	0.22	1.9	1	<0.2	165.0	0.17	0.11	0.76	0.049	0.25



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
458321		3.4	185	1.8	7.9	90	68.0
458322		4.0	187	1.7	7.7	92	69.9
458323		3.9	197	1.7	6.9	97	70.0
458324		5.3	230	2.2	8.0	113	81.3
458325		6.6	267	1.9	11.1	133	94.1
458326		0.1	17	0.2	4.6	10	4.7
458327		0.1	9	0.3	4.7	4	2.8
458328		<0.1	14	0.3	5.6	3	2.0
458329		0.6	147	3.5	21.2	106	132.0
458330		<0.1	14	0.2	6.0	4	3.9
458331		0.1	13	0.3	5.8	4	3.7
458332		0.1	15	0.1	5.7	11	2.6
458333		<0.1	15	0.2	4.4	4	3.4
458334		0.1	14	0.4	6.9	3	3.3
458335		<0.1	14	0.1	5.3	3	3.5
458336		0.2	2	0.1	1.9	9	1.9
458337		0.1	15	0.3	7.1	6	2.6
458338		0.1	20	0.1	6.6	31	4.2
458339		0.5	144	9.9	16.4	85	92.5
458340		1.3	40	0.2	8.7	86	13.9



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**Page: Annexe 1**  
**Total # les pages d'annexe: 1**  
**Finalisée date: 20-JUIL-2018**  
**Compte: MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154564**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
 Nombre total de pages: 2 (A - D)  
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 Compte: MINVIR

**CERTIFICAT VO18154565**

Projet: Kan  
 Bon de commande #: KANDH18-008  
 Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.  
 Les résultats sont transmis à:

GLENN ASCH AUDREY ROUSSEL-LALIER CORPORATIF WEBTRIEVE	SIMON HEBERT LEE SCHOLL	SIMON HOULE LIZ STOCK
---	----------------------------	--------------------------

PRÉPARATION ÉCHANTILLONS	
CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

PROCÉDURES ANALYTIQUES		
CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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**CERTIFICAT D'ANALYSE VO18154565**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
458341		5.18	0.004	0.19	7.87	2.0	430	2.93	0.20	0.30	0.19	62.5	18.2	98	20.3	44.8
458342		4.55	0.006	0.37	8.41	1.6	430	1.86	0.21	0.12	2.23	60.0	17.0	82	11.70	63.8
458343		4.60	0.005	0.29	8.33	3.8	480	1.71	0.21	0.23	1.14	55.2	16.6	85	14.75	50.7
458344		2.84	<0.001	0.16	6.71	39.9	210	0.49	0.16	3.98	0.23	10.80	42.5	134	11.30	105.0
458345		4.59	<0.001	0.23	5.70	34.6	40	0.24	0.01	5.60	0.21	7.09	39.7	101	5.26	149.0
458346		5.18	0.001	0.32	6.00	47.4	110	0.41	0.01	4.98	0.23	10.10	42.9	104	2.93	158.5
458347		4.13	0.010	0.35	8.51	9.2	540	2.18	0.22	0.25	2.30	65.5	14.4	86	7.53	77.8
458348		3.55	0.006	0.26	8.27	1.3	520	1.72	0.15	0.19	1.76	59.1	12.8	86	6.16	56.3
458349		0.06	0.666	0.21	6.95	20.2	340	1.21	0.13	4.28	0.19	50.4	41.6	178	1.80	52.4
458350		2.60	0.007	0.21	7.51	1.6	410	1.77	0.17	0.41	0.90	51.3	14.2	78	5.27	73.5
458351		2.53	0.002	0.44	6.62	72.1	180	0.69	0.03	5.02	0.41	10.65	49.5	128	1.82	135.5
458352		4.52	0.005	0.25	8.19	9.7	380	2.06	0.17	0.46	0.50	55.2	15.1	84	5.46	61.6
458353		4.14	0.006	0.20	8.50	33.9	390	2.70	0.18	0.27	2.53	64.8	14.4	89	6.16	61.2
458354		4.34	<0.001	0.06	8.79	6.8	410	2.50	0.09	0.13	0.10	65.4	11.3	89	5.78	30.0
458355		4.44	<0.001	0.05	8.55	3.8	390	2.22	0.23	0.11	0.04	61.8	10.9	78	4.52	45.1
458356		0.24	0.002	0.02	0.16	0.9	90	0.08	0.04	18.85	0.05	1.74	0.6	3	0.49	2.8
458357		4.57	<0.001	0.02	8.95	11.0	450	1.90	0.08	0.11	0.02	63.0	10.4	86	5.33	15.5
458358		4.72	<0.001	0.03	8.53	10.8	420	2.25	0.16	0.18	0.03	63.9	10.6	85	5.01	18.9
458359		0.09	2.49	0.44	6.72	12.1	330	1.14	0.16	4.78	0.08	42.8	51.7	304	0.64	83.9
458360		3.33	0.002	0.02	9.51	11.9	480	2.28	0.16	0.07	0.02	71.0	12.3	87	5.30	26.5



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18154565**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
458341		8.46	21.7	0.11	2.1	0.013	0.054	4.65	33.2	48.6	1.30	738	2.92	0.04	10.0	45.4
458342		7.39	22.5	0.12	2.4	0.028	0.054	5.09	31.4	45.2	1.04	291	4.32	0.04	7.6	50.6
458343		7.11	22.2	0.11	2.3	0.009	0.052	4.95	30.2	43.3	1.28	320	5.65	0.04	7.1	53.7
458344		9.59	16.70	0.07	1.2	0.011	0.069	2.27	4.3	44.0	4.66	1080	0.35	0.21	2.5	82.2
458345		8.22	13.60	0.06	0.8	<0.005	0.060	0.75	2.6	38.1	5.32	867	0.20	0.94	1.2	97.4
458346		8.23	15.00	0.05	1.2	0.007	0.067	1.19	4.2	39.8	4.80	1060	0.53	0.57	2.2	110.5
458347		5.96	23.1	0.09	2.1	0.025	0.051	4.65	34.1	43.1	1.13	207	5.89	0.05	7.3	56.8
458348		5.99	20.5	0.09	2.0	0.018	0.049	4.29	31.0	29.9	1.18	191	4.40	0.05	6.6	45.5
458349		7.07	18.35	0.06	3.5	0.018	0.065	0.85	21.6	10.2	2.80	914	1.73	1.66	19.3	134.0
458350		6.04	19.75	0.08	1.8	0.015	0.047	3.74	26.9	32.3	1.21	253	4.28	0.05	6.5	41.8
458351		8.73	16.15	0.05	1.3	<0.005	0.074	1.89	4.5	35.6	4.09	1190	0.45	0.59	2.9	124.0
458352		7.27	21.9	0.08	2.2	0.013	0.057	4.03	28.5	36.9	1.26	411	3.52	0.06	7.4	43.1
458353		6.23	22.5	0.09	2.0	0.016	0.053	4.27	32.8	45.3	1.39	262	3.48	0.06	7.3	45.4
458354		5.77	23.3	0.09	2.1	0.006	0.057	3.96	34.0	39.8	1.00	161	0.42	0.61	7.0	32.3
458355		7.48	21.7	0.09	2.2	<0.005	0.052	3.46	33.6	42.6	1.22	278	0.26	0.46	7.3	27.6
458356		0.19	0.47	0.11	0.1	<0.005	<0.005	0.07	1.0	9.8	13.00	364	0.14	0.04	0.2	1.2
458357		5.37	23.6	0.09	2.4	<0.005	0.053	4.19	32.1	33.5	1.13	245	0.18	0.35	7.5	30.3
458358		5.23	22.6	0.10	2.4	<0.005	0.057	4.22	33.2	34.7	1.16	382	0.46	0.12	7.7	28.6
458359		7.41	17.80	0.06	3.2	0.065	0.058	0.98	21.5	7.9	5.51	1060	2.95	1.97	28.8	340
458360		5.13	24.9	0.09	2.7	0.005	0.055	4.67	37.1	40.2	1.30	287	0.33	0.08	8.5	30.8





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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18154565**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
458341		350	10.3	196.0	0.009	1.51	1.19	12.0	2	1.6	30.7	0.75	0.13	9.25	0.297	1.72
458342		270	16.9	181.5	0.011	2.73	2.30	11.4	3	1.6	21.7	0.61	0.07	10.50	0.266	1.29
458343		150	16.9	184.0	0.014	2.07	2.52	11.5	1	1.5	28.2	0.57	0.10	10.30	0.270	1.50
458344		370	5.9	104.5	<0.002	0.13	0.29	40.8	1	0.5	175.0	0.15	<0.05	0.59	0.514	1.07
458345		290	19.2	41.3	<0.002	0.12	0.26	33.3	1	0.3	228	0.07	<0.05	0.17	0.314	0.45
458346		320	9.1	44.1	0.003	0.10	0.31	34.6	<1	0.4	233	0.14	<0.05	0.65	0.425	0.38
458347		210	16.6	164.5	0.012	1.97	3.38	11.1	3	1.6	36.8	0.62	0.10	11.65	0.245	1.05
458348		190	11.1	144.5	0.014	1.51	2.18	10.3	2	1.3	26.7	0.55	<0.05	9.71	0.239	0.84
458349		1100	13.8	39.3	<0.002	0.02	0.97	19.9	1	1.5	334	1.11	<0.05	4.55	0.862	0.17
458350		150	9.1	131.5	0.012	1.38	1.85	10.1	2	1.2	34.5	0.51	0.06	8.85	0.228	0.79
458351		330	12.2	63.8	0.002	0.16	0.38	39.6	1	0.6	300	0.19	<0.05	0.73	0.575	0.44
458352		160	10.2	147.0	0.010	1.87	2.34	11.5	3	1.4	49.5	0.60	0.10	9.62	0.253	1.06
458353		180	9.2	153.5	0.010	1.33	2.20	11.3	2	1.5	40.1	0.59	0.09	10.70	0.253	1.03
458354		200	4.0	151.0	<0.002	0.23	0.64	11.8	<1	1.5	34.8	0.58	0.07	11.85	0.255	0.96
458355		200	4.0	133.5	<0.002	0.17	0.69	10.1	<1	1.4	21.9	0.59	0.10	11.60	0.259	0.82
458356		30	4.1	2.6	<0.002	0.01	0.16	0.3	1	<0.2	150.0	<0.05	<0.05	0.26	0.007	0.07
458357		200	3.4	150.5	<0.002	0.07	0.63	11.5	<1	1.5	21.3	0.63	0.06	11.55	0.271	0.94
458358		190	4.3	155.0	<0.002	0.08	0.71	11.0	<1	1.5	22.7	0.62	0.08	12.00	0.274	1.02
458359		1860	4.9	30.4	<0.002	0.03	0.34	21.3	<1	1.2	473	1.57	0.08	2.58	1.035	0.06
458360		190	3.3	167.0	0.002	0.12	0.90	11.7	1	1.6	19.6	0.69	0.07	13.75	0.309	1.17



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18154565**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
458341	0.1	4.3	166	1.5	9.1	172	76.4
458342	0.1	5.1	239	1.2	7.3	264	82.1
458343	0.1	5.7	271	1.2	6.8	239	79.2
458344	0.1	0.3	346	0.2	5.2	118	42.5
458345	0.1	0.1	274	0.1	4.0	86	34.2
458346	0.1	0.4	290	0.4	5.3	99	40.4
458347	0.1	6.8	287	1.5	7.8	303	69.5
458348	0.1	4.6	262	1.1	6.3	281	66.6
458349	0.1	1.0	142	1.8	19.4	131	139.5
458350	0.1	4.1	234	1.0	6.1	225	65.5
458351	0.1	0.4	317	0.4	4.8	154	46.1
458352	0.1	4.2	233	1.2	6.4	229	75.0
458353	0.1	4.7	244	1.5	6.8	359	68.3
458354	0.1	1.4	81	1.6	5.2	109	70.2
458355	0.1	1.3	58	1.5	5.1	79	76.8
458356	0.1	0.3	3	0.3	0.6	16	2.4
458357	0.1	1.3	68	1.5	5.3	77	78.4
458358	0.1	1.4	67	1.5	5.7	73	82.3
458359	0.1	0.6	146	3.1	20.8	109	137.0
458360	0.1	1.8	68	1.5	6.0	80	92.3



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Page: **Annexe 1**  
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**CERTIFICAT D'ANALYSE VO18154565**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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## CERTIFICAT VO18154566

Projet: Kan

Bon de commande #: KANDH18-009

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.

Les résultats sont transmis à:

GLENN ASCH  
LEE SCHOLL

SIMON HEBERT  
LIZ STOCK

SIMON HOULE  
CORPORATIF WEBTRIEVE

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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À: **MINIÈRE OSISKO INC.**  
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**BUREAU 200**  
**QUEBEC QC G1K 7R1**

Page: 2 - A  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18154566**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
458361		3.22	0.007	0.08	9.58	10.9	460	2.33	0.21	0.44	1.34	68.1	14.7	91	5.43	49.4
458362		4.26	0.007	0.15	8.63	0.2	390	2.68	0.27	0.38	1.44	60.0	14.1	87	5.05	65.3
458363		3.90	0.002	0.23	4.32	1.2	200	1.61	0.07	5.00	0.27	42.2	7.7	54	2.36	57.6
458364		3.95	0.019	0.94	6.32	13.6	100	2.66	0.31	0.78	2.09	56.3	52.4	88	2.85	177.0
458365		4.49	0.013	0.58	9.69	1.4	320	2.93	0.17	0.47	3.06	70.5	12.2	91	4.16	106.5
458366		3.29	0.019	0.72	6.09	4.2	190	1.74	0.20	0.88	3.87	50.3	19.2	69	2.86	112.0
458367		3.92	0.021	1.34	5.04	0.7	80	1.24	0.45	0.81	2.98	38.0	12.4	78	2.14	262
458368		2.99	0.036	0.08	0.17	5.3	10	0.17	0.04	5.39	0.19	7.92	2.9	17	0.30	21.9
458369		0.07	7.66	1.36	6.22	32.3	320	0.94	0.45	2.96	0.08	28.9	38.0	322	0.66	109.0
458370		2.55	0.021	0.04	0.27	4.9	20	0.27	0.02	4.08	0.14	10.65	3.5	9	0.32	7.7
458371		2.54	0.003	0.01	0.05	7.8	10	0.42	0.01	3.02	0.04	5.73	3.1	3	0.45	1.8
458372		2.81	<0.001	0.06	0.40	0.7	20	0.56	0.02	1.65	0.22	8.72	5.2	8	0.45	10.0
458373		2.70	0.009	0.01	0.11	1.6	10	0.57	0.01	2.47	0.15	6.57	3.4	2	0.38	8.4
458374		2.75	0.084	0.01	0.14	1.5	10	0.26	0.01	1.44	0.09	5.13	3.3	1	0.47	6.9
458375		2.60	0.001	0.01	0.53	8.7	10	0.23	0.01	1.79	0.08	10.45	5.4	17	0.48	3.7
458376		0.27	0.002	0.01	0.09	0.6	160	<0.05	0.02	19.80	0.05	1.38	0.4	2	0.37	1.1
458377		4.69	0.015	0.13	7.76	32.3	350	2.12	0.13	1.81	0.35	48.7	20.3	107	3.68	69.5
458378		4.65	0.017	0.05	9.19	4.3	480	2.40	0.18	0.10	<0.02	64.3	9.8	87	4.51	27.1
458379		4.49	0.002	0.05	9.19	4.8	500	2.57	0.07	0.12	0.02	67.6	10.5	85	4.93	22.5
458380		4.54	0.001	0.04	10.25	2.9	540	2.40	0.10	0.07	<0.02	77.0	10.1	90	6.36	22.7



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18154566**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
458361		5.23	23.6	0.08	2.4	0.013	0.054	4.79	36.7	36.6	1.22	292	2.33	0.54	7.3	44.5
458362		5.58	20.9	0.10	2.0	0.023	0.048	4.23	32.1	34.1	1.24	438	1.78	0.86	5.2	37.3
458363		10.75	11.20	0.07	1.3	0.021	0.035	1.96	22.7	24.9	3.52	4760	2.67	0.05	5.4	37.2
458364		20.3	16.40	0.09	3.2	0.119	0.101	3.00	31.5	25.5	0.92	712	12.70	0.77	8.3	122.0
458365		12.55	23.7	0.08	4.9	0.087	0.118	4.66	40.8	32.6	0.84	150	12.85	1.03	15.5	74.1
458366		13.55	16.20	0.07	2.1	0.124	0.093	2.98	29.6	20.7	0.79	260	36.0	0.38	5.2	74.1
458367		26.7	13.00	0.09	2.3	0.126	0.077	2.40	20.1	19.7	0.72	469	14.25	0.41	3.0	161.0
458368		18.75	1.05	<0.05	0.1	0.005	0.009	0.06	4.8	2.1	3.96	5570	0.51	0.02	0.9	9.0
458369		5.67	14.95	<0.05	2.6	0.155	0.048	1.07	14.7	14.6	4.15	767	6.00	1.20	15.5	254
458370		21.3	1.29	<0.05	0.2	0.009	0.006	0.08	6.6	3.7	3.78	6840	1.09	0.01	1.0	5.7
458371		24.7	0.24	<0.05	<0.1	<0.005	<0.005	0.01	3.8	0.7	4.04	6320	0.11	<0.01	0.7	1.4
458372		26.1	1.26	<0.05	0.2	<0.005	0.009	0.19	5.3	2.3	3.83	5620	1.02	0.01	1.1	6.7
458373		29.0	0.48	<0.05	0.1	<0.005	0.014	0.04	4.4	1.9	4.80	6360	0.05	<0.01	0.3	2.0
458374		30.6	0.56	0.05	<0.1	<0.005	0.011	0.04	3.4	2.0	4.83	6410	0.06	<0.01	0.3	2.4
458375		21.7	2.15	<0.05	0.4	<0.005	0.009	0.04	5.9	4.6	3.26	10400	0.23	<0.01	3.6	5.5
458376		0.36	0.30	<0.05	0.1	<0.005	<0.005	0.05	0.8	8.9	13.35	409	0.19	0.03	0.3	0.6
458377		8.99	18.40	0.08	2.0	0.008	0.058	3.45	23.8	39.7	2.25	1300	3.08	0.21	7.6	52.0
458378		5.66	21.8	0.09	2.2	<0.005	0.053	3.87	35.0	34.7	1.05	275	0.31	1.12	6.8	27.0
458379		4.31	22.5	0.11	2.6	<0.005	0.051	4.45	37.0	33.3	1.02	262	0.51	0.73	7.5	31.6
458380		4.39	25.2	0.10	2.7	<0.005	0.051	5.31	39.9	41.6	1.07	204	0.54	0.31	8.3	32.1



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18154566**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
458361		220	6.9	164.0	0.005	0.89	1.24	11.4	2	1.8	41.4	0.61	0.13	14.90	0.298	1.41
458362		200	9.8	150.0	0.008	1.80	2.03	11.3	4	1.7	35.9	0.37	0.21	12.60	0.173	1.56
458363		270	20.0	65.0	0.005	3.44	0.96	5.4	2	2.1	245	0.26	0.27	7.02	0.089	0.80
458364		530	36.1	78.5	0.017	>10.0	9.17	14.4	6	3.3	55.0	0.44	0.89	4.57	0.228	1.79
458365		250	23.9	106.0	0.018	7.26	7.02	16.0	3	3.0	37.3	1.03	0.45	6.50	0.394	2.80
458366		330	48.2	78.3	0.037	7.63	6.77	9.6	6	1.8	45.6	0.31	0.44	4.88	0.165	1.78
458367		320	48.3	65.3	0.010	>10.0	8.76	10.6	9	2.0	51.5	0.17	0.89	3.36	0.121	1.46
458368		180	2.8	2.2	0.002	1.21	0.21	0.4	1	0.2	110.0	0.06	0.07	0.18	0.007	0.05
458369		1130	9.8	34.7	<0.002	0.09	0.70	19.3	1	1.1	280	0.94	0.27	2.45	0.682	0.20
458370		340	2.7	2.8	0.003	0.51	0.37	0.6	<1	0.2	82.8	0.05	0.08	0.36	0.011	0.07
458371		180	0.9	0.4	<0.002	0.10	<0.05	0.2	<1	<0.2	41.7	<0.05	<0.05	0.10	0.005	<0.02
458372		120	2.9	5.6	0.003	0.75	0.16	0.7	1	0.3	39.3	0.07	0.07	0.38	0.014	0.12
458373		240	1.2	2.1	<0.002	0.42	<0.05	0.2	1	<0.2	69.1	<0.05	0.07	0.11	<0.005	0.06
458374		130	1.2	1.8	<0.002	0.28	<0.05	0.2	<1	<0.2	38.3	<0.05	0.07	0.07	<0.005	0.03
458375		350	1.0	2.4	0.002	0.19	0.10	1.4	1	<0.2	40.1	0.20	<0.05	0.63	0.061	0.06
458376		70	2.4	1.2	<0.002	0.01	<0.05	0.1	2	<0.2	132.0	<0.05	0.07	0.20	0.006	0.05
458377		280	9.2	112.0	0.013	1.71	1.40	16.9	2	1.4	74.5	0.55	0.11	7.11	0.343	1.06
458378		210	4.6	135.0	<0.002	0.60	0.51	11.0	1	1.9	25.0	0.59	0.21	11.90	0.272	1.04
458379		190	5.3	154.0	0.004	0.42	0.67	10.3	1	1.8	25.7	0.59	0.14	12.55	0.297	1.09
458380		200	5.8	179.0	<0.002	0.51	0.82	11.0	1	2.0	22.4	0.64	0.09	14.10	0.342	1.22



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18154566**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
458361		3.5	131	1.4	6.6	165	80.8
458362		3.2	145	1.3	6.1	167	68.1
458363		2.3	75	0.6	6.6	111	43.3
458364		10.6	147	1.5	10.9	498	124.0
458365		13.5	207	2.4	14.6	732	176.0
458366		20.8	359	2.3	9.5	860	83.9
458367		9.1	146	1.5	7.1	598	92.3
458368		0.3	13	0.2	5.5	29	5.1
458369		0.6	143	9.1	14.4	85	100.5
458370		0.6	24	0.3	5.8	31	6.5
458371		0.1	6	0.2	4.7	11	2.5
458372		0.8	18	0.4	4.4	39	9.8
458373		0.1	9	0.1	5.9	34	3.0
458374		0.1	10	0.1	3.9	29	2.0
458375		0.4	34	0.3	4.5	24	18.2
458376		0.3	3	0.3	0.7	15	2.2
458377		3.9	264	1.5	5.6	164	66.7
458378		1.4	74	1.8	4.6	99	73.3
458379		1.8	70	1.5	5.1	72	86.8
458380		2.0	75	1.5	5.4	79	94.3





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **18-JUIL-2018**  
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**CERTIFICAT D'ANALYSE VO18154566**

	<b>COMMENTAIRE DE CERTIFICAT</b>								
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
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## CERTIFICAT VO18154567

Projet: Kan

Bon de commande #: KANDH18-010

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.

Les résultats sont transmis à:

GLENN ASCH  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

SIMON HOULE  
LIZ STOCK

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18154567**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
458381		4.49	0.002	0.06	8.83	2.4	510	2.53	0.18	0.10	0.09	78.8	11.0	84	5.57	28.8
458382		3.06	0.008	0.12	7.90	1.1	420	1.89	0.24	0.43	0.68	55.4	15.5	84	4.43	67.2
458383		1.60	<0.001	0.05	7.16	34.8	350	1.17	0.02	3.11	0.45	32.9	30.6	110	2.64	79.6
458384		4.41	0.038	1.19	6.43	122.5	100	1.07	0.38	0.30	2.24	52.2	42.6	86	2.86	130.0
458385		3.72	0.005	0.54	10.25	20.9	310	1.28	0.18	0.23	2.10	56.9	17.4	130	4.23	178.0
458386		4.25	0.004	0.61	9.35	21.9	260	1.10	0.21	0.23	2.22	60.0	25.0	90	3.49	186.0
458387		4.06	0.002	0.47	8.35	14.5	250	1.02	0.17	1.07	2.49	62.8	17.8	91	3.75	219
458388		4.11	0.002	0.40	9.59	25.4	320	1.23	0.17	0.35	2.15	51.0	27.5	114	4.36	127.0
458389		0.09	0.678	0.20	7.43	19.3	330	1.45	0.15	4.48	0.18	52.8	43.8	189	1.98	58.0
458390		4.31	0.005	0.54	9.98	19.3	330	1.37	0.20	0.31	1.76	97.5	27.4	121	4.42	173.5
458391		4.15	0.004	0.49	10.70	18.5	380	1.41	0.17	0.28	1.79	68.1	19.1	130	4.73	166.0
458392		4.21	0.006	0.59	9.91	37.3	440	1.06	0.20	0.67	2.40	66.9	35.7	108	4.49	120.0
458393		4.78	0.005	0.56	10.55	11.2	410	1.14	0.14	0.26	1.95	73.6	12.9	115	4.71	125.0
458394		4.38	0.008	0.74	10.65	26.4	420	1.32	0.21	0.22	3.33	61.8	33.0	114	4.76	120.5
458395		4.83	0.006	0.77	9.88	12.1	370	1.26	0.17	0.28	3.51	55.4	20.3	121	4.32	133.0
458396		0.28	<0.001	0.01	0.10	0.6	140	<0.05	0.02	19.75	0.07	1.70	0.4	2	0.46	1.4
458397		4.51	0.003	0.78	8.74	39.5	210	0.90	0.22	0.44	2.96	44.1	53.2	112	4.24	160.5
458398		4.01	0.003	0.64	8.89	31.6	260	1.31	0.24	1.06	2.30	79.0	36.1	102	3.52	141.0
458399		3.90	0.004	0.69	7.74	19.3	200	1.28	0.22	1.00	1.32	70.7	23.5	103	2.95	112.5
458400		4.82	0.004	0.80	8.86	29.7	230	1.35	0.29	0.40	1.86	63.9	39.1	112	3.49	136.5



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 21-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154567**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
458381		4.83	24.9	0.11	2.4	0.007	0.055	4.66	41.6	42.5	1.14	258	1.56	0.09	8.7	33.0
458382		6.65	22.0	0.11	1.9	0.019	0.041	3.71	28.8	40.2	1.32	295	4.27	0.05	7.1	44.5
458383		7.88	18.95	0.08	1.6	0.011	0.047	2.77	16.8	40.3	2.33	664	2.49	0.09	5.0	73.1
458384		17.00	20.7	0.12	4.9	0.298	0.131	2.43	25.9	21.9	0.73	106	19.85	0.33	18.4	189.0
458385		11.20	26.6	0.14	4.8	0.126	0.166	3.96	31.1	26.4	0.76	84	12.40	0.51	21.1	179.0
458386		12.00	26.4	0.15	6.1	0.140	0.194	3.39	30.6	35.2	1.06	87	10.25	0.47	24.5	168.5
458387		12.20	22.7	0.14	4.2	0.178	0.212	3.14	36.6	23.6	1.09	363	9.41	0.33	14.0	188.5
458388		9.84	25.9	0.12	4.8	0.158	0.192	3.48	28.1	29.3	0.87	137	9.14	0.42	16.2	131.0
458389		7.48	20.6	0.08	3.8	0.024	0.073	0.91	23.9	13.8	2.96	946	1.83	1.75	20.0	138.0
458390		10.95	27.6	0.16	5.9	0.123	0.173	3.44	51.8	33.2	0.96	127	11.95	0.50	25.0	164.0
458391		9.60	28.8	0.14	5.4	0.145	0.194	3.84	38.5	35.6	0.91	115	10.10	0.58	21.9	148.5
458392		9.96	22.4	0.10	4.7	0.180	0.200	3.44	39.6	34.6	1.16	233	9.24	0.58	20.0	134.0
458393		8.57	25.6	0.12	5.3	0.132	0.183	3.74	43.6	41.0	1.05	109	9.79	0.66	23.4	127.5
458394		9.90	24.7	0.11	4.7	0.211	0.253	3.88	37.4	30.2	0.65	72	11.45	0.66	19.8	145.5
458395		10.15	24.0	0.11	4.1	0.190	0.262	3.41	31.6	39.1	0.92	121	10.20	0.69	15.5	136.0
458396		0.14	0.28	0.07	0.1	<0.005	0.005	0.05	0.9	9.5	12.35	284	0.22	0.02	0.2	1.0
458397		13.10	19.85	0.09	3.6	0.180	0.226	3.02	23.8	25.8	0.67	146	9.92	0.57	10.0	164.0
458398		12.15	21.1	0.09	5.6	0.107	0.177	2.45	44.6	41.1	1.39	424	8.74	0.76	19.6	123.5
458399		9.55	18.40	0.09	4.5	0.072	0.105	2.02	41.1	34.2	1.21	407	7.39	0.71	13.6	106.0
458400		13.00	20.4	0.09	4.9	0.089	0.130	2.49	36.0	35.7	0.86	195	8.06	0.83	17.6	144.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 21-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154567**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
458381		170	10.3	157.5	0.003	0.47	1.32	11.9	1	1.8	21.9	0.64	0.07	15.25	0.282	1.36
458382		190	21.5	125.0	0.010	1.11	2.33	10.7	3	1.3	27.5	0.56	0.09	11.30	0.229	1.20
458383		250	4.7	93.4	0.006	0.31	0.47	27.8	1	0.7	105.5	0.36	<0.05	5.81	0.428	0.82
458384		380	74.9	61.5	0.028	>10.0	18.80	14.7	4	2.3	32.6	1.24	0.89	5.97	0.251	5.00
458385		590	31.8	96.6	0.012	6.95	5.55	26.6	3	2.6	55.8	1.32	0.22	5.75	0.528	5.34
458386		830	33.8	65.7	0.017	6.59	5.09	25.7	3	2.6	49.8	1.47	0.22	5.64	0.536	4.37
458387		500	23.3	77.0	0.011	7.38	3.86	24.5	3	2.4	57.3	0.79	0.17	4.98	0.387	4.06
458388		490	23.6	82.8	0.014	6.36	3.46	27.2	3	2.7	68.4	0.91	0.25	4.40	0.472	4.27
458389		1140	14.2	42.8	<0.002	0.02	1.08	21.1	<1	1.8	358	1.18	<0.05	5.87	0.924	0.23
458390		520	26.8	83.2	0.015	6.34	4.17	26.3	3	2.5	81.8	1.40	0.26	7.50	0.466	4.11
458391		580	26.2	87.9	0.014	5.64	3.60	31.3	2	2.5	84.2	1.31	0.25	5.75	0.663	4.23
458392		660	38.6	77.1	0.012	6.23	4.21	24.7	2	2.5	82.5	1.18	0.26	4.53	0.593	3.88
458393		680	25.7	84.4	0.015	4.72	3.85	29.6	2	2.8	87.2	1.33	0.16	5.04	0.688	4.28
458394		560	34.8	92.0	0.013	6.81	4.86	28.5	3	3.1	91.0	1.15	0.23	4.56	0.554	4.41
458395		470	29.4	77.5	0.014	6.03	4.11	28.0	3	3.5	85.2	0.92	0.25	4.24	0.495	3.79
458396		30	2.0	1.4	<0.002	0.02	0.24	0.2	1	<0.2	176.5	<0.05	<0.05	0.11	0.009	0.14
458397		430	33.7	70.7	0.015	9.18	2.80	20.6	3	3.0	79.1	0.60	0.33	3.38	0.356	3.70
458398		450	35.0	58.1	0.013	7.83	2.78	18.1	2	2.6	111.5	1.20	0.31	5.97	0.367	3.03
458399		420	24.6	51.4	0.010	5.43	2.75	15.0	2	1.9	109.0	0.84	0.28	5.05	0.306	2.40
458400		420	35.6	59.9	0.014	8.31	3.01	17.0	3	2.0	111.5	1.03	0.34	5.18	0.370	2.89



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 21-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154567**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
458381		2.4	110	1.8	6.5	108	75.4
458382		4.3	232	1.5	6.6	233	59.1
458383		2.6	300	1.0	6.6	167	54.0
458384		16.6	216	0.8	15.3	710	171.0
458385		19.4	205	1.0	15.2	828	171.0
458386		17.4	192	0.8	16.1	904	218
458387		14.0	168	0.7	13.6	1020	148.5
458388		16.2	184	0.7	13.1	856	165.5
458389		1.1	147	2.1	20.9	132	140.0
458390		13.6	180	0.7	16.7	703	212
458391		15.9	199	0.9	14.8	746	190.0
458392		17.0	185	0.7	13.2	943	181.5
458393		18.7	197	0.8	14.8	805	203
458394		18.3	185	0.9	14.4	1280	184.0
458395		16.5	206	0.7	12.1	1340	155.5
458396		0.2	3	0.2	1.0	19	1.8
458397		15.0	184	0.7	9.7	1040	137.0
458398		11.4	156	0.8	12.9	748	210
458399		7.8	127	0.7	10.2	401	173.0
458400		10.5	150	0.8	11.3	555	190.0



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **21-JUIL-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154567**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
16-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18154568

Projet: Kan

Bon de commande #: KANDH18-011

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154568**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
407701		Not Recvd														
407702		4.70	0.012	0.93	10.25	10.0	250	1.76	0.22	0.43	2.29	87.2	21.3	123	4.36	132.0
407703		2.56	0.009	0.84	10.55	7.2	250	2.02	0.18	0.36	2.65	86.2	11.1	118	4.62	150.5
407704		4.77	0.004	0.63	11.10	7.0	280	2.19	0.18	0.14	2.79	106.5	8.6	131	4.88	97.4
407705		4.51	0.009	1.38	9.50	73.6	200	1.73	0.37	1.33	2.57	90.5	53.2	113	3.89	121.5
407706		4.69	0.007	0.84	10.60	16.3	270	1.81	0.15	0.11	1.93	83.8	26.8	118	4.62	146.0
407707		4.92	0.008	0.89	10.40	16.8	270	1.87	0.19	0.43	1.94	89.4	19.3	122	4.65	120.0
407708		4.78	0.009	0.94	10.35	37.3	260	1.94	0.19	0.56	3.62	88.0	37.9	117	4.52	129.5
407709		0.06	2.55	0.49	7.29	11.3	340	1.17	0.17	5.04	0.07	45.9	54.7	332	0.70	83.5
407710		4.61	0.009	0.97	10.00	10.9	300	2.06	0.22	0.36	2.29	74.6	9.8	148	5.03	162.0
407711		4.71	0.012	0.89	9.83	26.4	230	1.93	0.23	0.66	2.18	86.8	30.0	114	4.05	109.0
407712		4.53	0.008	0.76	9.50	12.2	200	1.97	0.17	1.13	1.97	112.5	17.3	105	3.80	126.0
407713		4.23	0.013	1.00	9.81	22.9	200	2.03	0.24	0.90	1.54	93.4	24.4	116	3.82	149.5
407714		4.66	0.013	1.12	9.36	24.5	220	1.58	0.27	0.67	1.67	85.3	29.2	103	4.21	165.0
407715		4.76	0.023	1.21	10.10	15.0	280	1.75	0.19	0.55	3.53	59.8	18.8	117	4.53	246
407716		0.22	<0.001	0.02	0.20	1.3	110	0.06	0.03	19.80	0.22	1.76	0.9	2	0.48	2.1
407717		3.17	0.048	2.20	4.10	32.7	140	1.62	0.33	1.77	13.25	50.0	32.9	64	2.94	327
407718		2.08	0.067	2.83	1.82	34.2	20	0.58	0.37	3.03	8.74	44.3	21.7	39	1.43	435
407719		2.17	0.077	2.74	1.67	16.7	40	0.62	0.32	3.79	10.20	42.7	18.5	34	1.57	397
407720		2.40	0.086	2.37	2.23	40.8	110	1.53	0.30	1.59	19.80	40.7	37.6	51	3.23	362



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154568**

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
407701		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
407702		10.15	25.9	0.20	5.3	0.097	0.163	3.28	50.5	35.8	0.79	191	11.60	0.79	17.5	130.0
407703		9.93	29.0	0.21	5.9	0.106	0.176	3.45	48.2	36.6	0.74	179	13.25	0.79	17.8	135.0
407704		6.91	28.4	0.22	6.2	0.115	0.181	3.85	61.3	27.6	0.42	66	9.82	0.82	27.3	98.2
407705		12.60	24.5	0.22	6.0	0.107	0.162	2.98	50.2	40.9	1.44	621	9.41	0.56	23.6	128.5
407706		11.65	26.3	0.21	5.8	0.080	0.158	3.68	46.6	34.2	0.79	116	15.45	0.51	16.0	150.0
407707		9.86	27.1	0.21	6.1	0.078	0.159	3.85	49.8	29.9	0.85	230	11.00	0.48	23.7	121.5
407708		11.50	26.5	0.22	6.6	0.116	0.190	3.66	48.7	35.6	1.02	332	10.10	0.50	29.9	132.0
407709		7.95	17.80	0.17	3.3	0.061	0.060	1.05	23.4	9.5	5.81	1100	2.98	2.13	28.8	376
407710		11.20	27.5	0.21	5.7	0.081	0.162	4.08	39.4	34.2	0.86	240	10.45	0.47	21.4	156.0
407711		10.35	24.5	0.22	6.5	0.067	0.135	3.28	48.9	32.4	0.92	341	8.79	0.67	27.6	111.0
407712		9.60	28.4	0.21	9.4	0.066	0.138	3.01	60.0	37.6	1.21	493	9.64	0.73	37.1	108.5
407713		11.60	25.2	0.23	5.8	0.055	0.124	2.97	53.0	43.5	1.25	492	8.68	0.66	21.0	143.0
407714		11.65	25.3	0.21	5.3	0.059	0.146	3.24	45.1	35.7	1.06	456	12.90	0.45	17.1	150.0
407715		12.65	24.1	0.20	4.3	0.119	0.219	3.87	33.3	32.2	0.86	454	9.98	0.39	13.4	172.0
407716		0.19	0.52	0.26	0.1	0.005	<0.005	0.09	0.9	19.3	13.85	291	0.16	0.04	0.5	1.6
407717		16.85	12.20	0.18	2.4	0.252	0.097	1.43	30.5	21.0	1.10	1480	68.9	0.16	7.2	214
407718		21.3	5.79	0.19	1.1	0.154	0.045	0.22	27.8	22.1	1.84	4560	128.5	0.01	2.5	252
407719		20.6	5.53	0.18	1.0	0.189	0.051	0.27	26.8	21.6	2.31	6960	105.0	0.01	2.8	246
407720		17.70	7.29	0.17	1.2	0.357	0.066	0.74	27.0	22.3	1.14	3040	121.0	0.02	2.6	205



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154568**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
407701																
407702		510	25.9	82.9	0.013	5.83	3.39	21.4	3	2.5	124.0	0.95	0.27	6.87	0.416	3.48
407703		460	22.2	87.4	0.014	5.66	3.39	20.6	3	2.7	135.0	0.97	0.30	6.87	0.445	3.77
407704		410	22.4	102.5	0.010	4.37	2.94	21.1	2	3.2	141.5	1.49	0.23	8.15	0.547	4.32
407705		540	53.6	76.6	0.010	8.20	3.41	19.8	3	2.6	119.0	1.32	0.42	7.33	0.438	3.30
407706		320	18.2	97.1	0.016	6.73	2.57	21.4	3	2.6	84.0	0.92	0.19	7.02	0.423	4.29
407707		510	22.1	102.0	0.010	5.85	2.65	21.7	2	3.0	83.3	1.29	0.22	7.62	0.455	4.48
407708		480	25.8	94.8	0.011	7.16	2.36	23.0	4	3.4	85.9	1.75	0.25	7.97	0.480	4.35
407709		1960	5.4	33.0	<0.002	0.04	0.34	21.5	1	1.3	510	1.64	0.09	2.96	1.120	0.08
407710		530	28.2	107.5	0.015	6.16	2.90	26.2	4	2.7	85.8	1.23	0.25	7.00	0.476	4.91
407711		460	32.1	86.8	0.010	6.82	2.37	20.1	3	2.6	114.5	1.66	0.26	8.15	0.450	3.77
407712		460	25.3	78.7	0.008	5.20	2.22	19.2	3	3.3	120.5	2.40	0.24	10.55	0.366	3.38
407713		450	26.5	79.9	0.010	6.47	3.01	21.7	3	2.7	134.0	1.28	0.28	7.51	0.430	3.44
407714		430	38.6	86.6	0.011	6.66	2.76	22.3	4	2.5	104.5	0.93	0.28	6.54	0.390	3.95
407715		540	46.5	99.4	0.013	6.96	3.23	25.9	4	2.7	76.2	0.78	0.32	4.66	0.393	4.88
407716		30	10.8	2.3	<0.002	0.06	0.16	0.3	1	<0.2	194.5	<0.05	<0.05	0.17	0.012	0.13
407717		750	65.6	55.6	0.074	9.92	7.60	9.2	13	1.2	50.1	0.47	0.49	4.66	0.132	3.07
407718		2840	54.0	11.8	0.058	>10.0	12.90	4.7	20	0.4	61.2	0.17	0.57	2.67	0.050	0.75
407719		2490	53.8	15.2	0.058	>10.0	11.80	4.4	19	0.4	75.2	0.20	0.55	2.66	0.047	0.96
407720		1710	79.0	39.6	0.085	>10.0	11.55	4.6	20	0.9	43.9	0.18	0.47	3.24	0.051	2.17



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
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Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18154568**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
407701		0.1	1	0.1	0.1	2	0.5
407702		12.6	176	1.0	14.5	685	217
407703		14.3	183	1.2	14.3	802	244
407704		12.0	176	1.3	16.8	822	262
407705		11.0	148	1.2	16.8	791	243
407706		12.9	179	1.4	15.1	610	230
407707		11.4	173	1.6	16.3	596	250
407708		12.9	172	1.5	17.9	1040	271
407709		0.7	156	3.1	22.1	112	147.0
407710		16.9	199	1.5	13.9	641	235
407711		11.0	159	1.2	17.6	649	258
407712		11.0	143	1.0	21.2	596	371
407713		9.4	150	1.0	15.2	496	230
407714		12.0	165	0.9	15.2	549	219
407715		17.2	189	0.9	12.9	1160	178.0
407716		0.4	3	0.2	1.0	45	5.0
407717		31.5	732	1.4	15.1	2120	93.1
407718		43.5	894	1.7	22.2	1400	46.1
407719		39.0	885	1.4	22.6	1580	41.5
407720		51.6	1160	1.2	21.4	2760	48.2



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154568**

	<b>COMMENTAIRE DE CERTIFICAT</b>								
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 18-JUIL-2018  
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## CERTIFICAT VO18154569

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Bon de commande #: KANDH18-012

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.

Les résultats sont transmis à:

GLENN ASCH  
LEE SCHOLL

SIMON HEBERT  
LIZ STOCK

SIMON HOULE  
CORPORATIF WEBTRIEVE

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 18-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154569**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
407721		2.39	0.107	2.30	1.41	214	40	0.79	0.26	4.17	11.30	37.8	20.4	38	1.44	524
407722		2.38	0.075	1.95	1.15	130.5	20	2.43	0.23	5.60	9.41	36.5	8.4	33	0.89	401
407723		2.21	0.082	2.09	1.37	330	20	6.63	0.26	4.45	11.60	46.1	17.4	38	1.09	355
407724		2.48	0.075	1.58	1.15	250	20	0.73	0.22	3.63	6.86	29.7	10.5	37	0.94	368
407725		3.18	0.081	1.52	1.19	137.5	30	1.10	0.22	3.33	7.48	29.1	6.5	34	0.93	528
407726		2.07	0.078	1.75	1.46	264	30	0.82	0.25	3.44	7.30	39.7	17.4	38	0.99	332
407727		2.36	0.119	1.96	2.09	282	100	1.87	0.32	2.11	21.9	42.7	16.1	47	2.01	444
407728		2.16	0.091	1.62	2.51	269	140	2.81	0.27	3.12	19.90	62.4	14.1	49	1.40	355
407729		0.07	7.74	1.33	6.23	31.1	320	0.96	0.45	2.95	0.07	27.2	38.0	336	0.68	109.0
407730		2.43	0.092	1.31	2.50	446	160	2.19	0.26	3.09	17.05	51.7	20.1	45	1.43	344
407731		2.45	0.094	1.26	2.04	271	130	1.69	0.30	2.39	16.35	46.1	28.0	45	1.55	470
407732		2.26	0.058	0.70	1.43	98.2	110	2.14	0.26	3.23	5.97	40.5	21.1	29	1.17	207
407733		2.67	0.043	0.56	1.36	95.5	100	1.13	0.18	3.32	6.29	43.6	14.6	27	1.15	227
407734		2.51	0.064	0.53	1.41	69.4	120	1.16	0.18	3.16	4.58	39.3	9.6	30	1.50	244
407735		2.48	0.048	0.64	1.35	70.3	110	1.07	0.23	3.13	5.99	37.8	11.1	33	1.48	320
407736		0.22	0.002	0.01	0.06	0.9	90	0.09	0.02	19.90	0.07	1.07	0.4	2	0.32	2.3
407737		2.26	0.065	0.66	1.25	115.5	100	0.86	0.25	3.12	6.17	37.4	10.2	29	1.47	231
407738		2.54	0.083	0.88	1.60	160.0	150	1.26	0.32	2.97	11.60	42.0	12.9	43	2.12	348
407739		2.30	0.032	0.39	1.42	41.8	100	1.00	0.06	3.58	4.81	38.0	15.9	27	1.51	279
407740		2.46	0.032	0.47	1.55	42.1	90	69.6	0.11	2.98	2.96	29.6	7.8	29	1.55	258



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 18-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18154569**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
407721		19.95	4.40	0.10	0.9	0.239	0.045	0.32	23.0	17.8	2.16	9280	98.1	0.02	2.3	211
407722		19.50	3.75	0.10	0.8	0.162	0.035	0.21	21.7	14.0	2.74	13550	80.7	0.02	2.4	177.0
407723		19.90	4.38	0.11	0.9	0.215	0.046	0.23	27.4	16.2	2.30	9980	102.0	0.02	2.7	187.5
407724		18.45	3.63	0.09	0.7	0.131	0.030	0.21	18.5	14.2	2.08	8220	88.0	0.05	1.9	146.5
407725		19.65	3.71	0.09	0.6	0.131	0.033	0.21	17.5	13.6	2.14	9480	89.7	0.03	1.9	154.0
407726		18.60	4.47	0.09	0.8	0.142	0.033	0.21	23.5	17.7	2.19	8540	94.6	0.04	2.4	147.5
407727		19.45	5.84	0.12	1.5	0.318	0.071	0.60	25.2	17.7	1.26	5180	116.5	0.07	2.7	203
407728		18.95	7.05	0.15	1.9	0.323	0.056	0.54	38.0	21.4	1.92	11950	85.0	0.23	4.1	133.5
407729		5.64	14.10	0.05	2.4	0.172	0.048	1.06	13.9	14.5	4.14	767	5.91	1.20	14.7	252
407730		20.2	7.16	0.12	1.8	0.255	0.048	0.54	28.8	23.9	2.00	11850	73.1	0.16	3.8	113.5
407731		20.7	6.00	0.11	1.4	0.269	0.046	0.54	27.6	17.0	1.66	8910	77.4	0.07	3.1	125.5
407732		21.9	4.49	0.08	1.0	0.080	0.028	0.47	21.2	10.9	2.14	11300	31.4	0.04	2.7	59.5
407733		21.7	4.40	0.08	1.0	0.088	0.027	0.43	23.3	10.2	2.13	10700	31.5	0.04	2.5	56.9
407734		21.5	4.57	0.06	1.0	0.046	0.019	0.55	20.2	9.0	2.08	9480	31.7	0.04	2.7	62.7
407735		22.0	4.34	0.08	0.8	0.074	0.029	0.54	20.1	8.9	2.05	10850	37.6	0.04	2.6	80.1
407736		0.23	0.20	<0.05	<0.1	<0.005	<0.005	0.03	0.6	11.7	13.35	310	0.34	0.02	0.1	0.7
407737		20.2	4.05	0.10	0.9	0.091	0.023	0.52	20.4	7.3	2.00	10650	35.2	0.04	2.5	67.1
407738		20.1	4.95	0.08	1.2	0.144	0.039	0.71	24.0	8.2	1.88	10050	73.1	0.05	3.6	80.3
407739		24.0	4.17	0.07	0.8	0.057	0.024	0.53	17.2	9.4	2.08	16050	19.90	0.04	2.2	62.0
407740		19.55	4.61	0.06	0.8	0.048	0.017	0.49	15.5	11.0	1.79	8370	20.3	0.04	1.9	74.1





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 18-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154569**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
407721		3280	52.1	14.9	0.064	>10.0	11.00	3.2	16	0.5	79.0	0.16	0.53	1.95	0.033	0.97
407722		4940	43.5	10.3	0.045	8.38	9.63	2.9	14	0.3	110.0	0.16	0.44	1.55	0.031	0.72
407723		4120	48.7	11.5	0.061	9.30	10.35	3.0	16	0.4	87.3	0.19	0.52	1.92	0.040	0.75
407724		3410	37.1	9.3	0.045	7.58	7.80	2.8	12	0.3	73.2	0.12	0.50	1.56	0.033	0.51
407725		2690	32.7	10.4	0.045	7.67	6.91	2.9	13	0.3	70.0	0.10	0.41	1.56	0.031	0.63
407726		2690	38.8	10.4	0.042	7.46	8.47	3.4	14	0.3	75.8	0.13	0.45	1.97	0.042	0.61
407727		2230	49.4	27.3	0.083	9.64	9.21	3.9	19	0.6	60.6	0.17	0.55	2.68	0.041	1.58
407728		3820	38.1	31.9	0.097	6.80	7.01	4.8	23	0.9	86.2	0.28	0.51	3.72	0.056	1.67
407729		1150	9.4	34.2	0.003	0.09	0.73	18.8	1	1.1	281	0.87	0.28	2.12	0.684	0.18
407730		3590	30.8	40.4	0.068	6.12	5.95	4.8	23	1.3	74.0	0.22	0.75	2.94	0.061	1.99
407731		2690	29.6	38.1	0.071	6.51	4.94	3.7	22	1.0	54.2	0.20	0.79	2.95	0.041	1.96
407732		2950	16.6	34.4	0.032	3.55	2.58	2.5	9	0.7	56.6	0.17	0.64	2.21	0.033	1.92
407733		3190	13.3	32.1	0.033	3.24	1.84	2.4	10	0.7	57.9	0.14	0.51	2.04	0.030	1.72
407734		2700	12.5	38.1	0.034	3.10	1.79	2.5	10	0.7	55.5	0.15	0.52	2.17	0.031	1.93
407735		2760	15.7	37.1	0.040	3.89	2.31	2.6	11	0.7	57.6	0.14	0.56	2.04	0.031	1.92
407736		30	1.2	1.0	<0.002	0.02	<0.05	0.1	<1	<0.2	130.0	<0.05	0.06	0.12	0.005	0.06
407737		2750	16.0	35.3	0.032	3.22	2.31	2.5	13	0.6	58.3	0.14	0.57	1.90	0.030	1.74
407738		3070	24.0	49.7	0.068	3.80	3.30	3.5	13	0.9	65.2	0.19	0.71	2.66	0.040	2.42
407739		2770	6.7	32.1	0.017	3.14	0.51	2.8	9	0.6	66.8	0.13	0.31	2.06	0.037	1.67
407740		2110	8.4	30.5	0.014	3.39	0.74	2.3	9	0.5	56.2	0.14	0.28	2.21	0.028	1.39



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 18-JUIL-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18154569**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
407721		35.1	910	0.6	19.4	1930	36.0
407722		29.9	784	0.4	21.4	1560	34.3
407723		39.8	915	0.5	22.3	1930	37.4
407724		28.2	693	0.6	16.7	1170	29.5
407725		31.1	710	0.3	14.8	1230	27.6
407726		34.3	782	0.5	17.9	1190	33.8
407727		42.4	881	0.5	16.6	3410	62.9
407728		40.6	895	0.3	25.4	3060	73.2
407729		0.6	144	8.9	13.2	89	97.9
407730		34.1	721	0.3	22.0	2450	68.3
407731		37.0	745	0.3	20.6	2390	51.6
407732		17.5	363	0.1	16.4	986	35.8
407733		16.9	363	0.1	18.8	1040	35.0
407734		16.1	342	0.2	15.2	756	37.2
407735		18.8	390	0.2	16.2	964	35.7
407736		0.3	3	0.2	0.5	17	1.5
407737		17.8	372	0.2	16.5	996	33.8
407738		35.1	627	0.3	24.4	1810	48.4
407739		11.6	243	0.2	14.0	854	29.6
407740		10.8	250	0.1	11.6	573	30.0



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **18-JUIL-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154569**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.			
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP21	Hg-MS42	ME-MS61	



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 16-JUIL-2018  
Compte: MINVIR

## CERTIFICAT VO18154577

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Bon de commande #: KANDH18-013

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.

Les résultats sont transmis à:

GLENN ASCH  
LEE SCHOLL

SIMON HEBERT  
LIZ STOCK

SIMON HOULE  
CORPORATIF WEBTRIEVE

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154577**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
407741		3.07	0.112	1.18	1.98	158.5	160	1.75	0.40	2.58	31.4	44.1	33.5	43	2.28	290
407742		1.98	0.104	0.93	2.11	201	180	1.72	0.35	2.72	10.95	47.0	19.9	42	2.14	193.5
407743		1.74	0.049	0.47	1.24	88.6	60	0.69	0.18	3.31	4.04	33.6	9.7	26	0.78	159.5
407744		2.47	0.070	0.69	1.98	84.1	110	1.05	0.26	3.02	12.70	39.3	14.5	37	0.88	237
407745		2.07	0.066	0.70	1.74	84.6	60	0.82	0.20	3.11	8.80	35.9	12.4	34	0.44	185.5
407746		2.16	0.072	0.97	1.77	55.1	20	0.50	0.23	3.06	11.35	38.1	19.1	34	0.39	159.0
407747		2.34	0.041	1.12	3.59	77.0	150	1.31	0.31	2.99	5.60	57.1	37.3	46	1.32	322
407748		2.38	0.143	2.30	2.42	30.3	70	0.60	0.62	3.22	14.35	49.7	25.0	47	1.00	462
407749		0.07	0.688	0.21	7.69	20.5	350	1.45	0.14	4.63	0.20	48.5	42.9	196	1.95	54.5
407750		4.22	0.078	1.38	7.62	4.1	250	2.67	0.41	1.31	10.40	62.8	16.2	107	3.92	221
407751		4.15	0.009	0.64	10.05	3.4	310	3.04	0.19	0.49	4.40	77.6	10.2	122	4.80	179.0
407752		4.29	0.013	0.61	8.74	3.7	220	1.70	0.14	1.50	4.03	82.1	13.9	101	3.72	201
407753		4.67	0.016	0.63	9.14	4.0	220	1.25	0.15	0.85	3.03	56.2	28.9	104	3.79	193.0
407754		4.62	0.016	0.78	8.80	8.2	200	1.10	0.16	0.81	2.86	58.2	34.0	112	3.59	213
407755		4.56	0.018	0.96	8.63	7.4	190	1.09	0.19	1.40	2.42	55.3	29.3	97	3.20	193.0
407756		0.24	<0.001	0.01	0.12	0.3	120	0.06	0.02	20.3	0.07	1.59	0.5	2	0.53	2.3
407757		3.16	0.006	0.59	9.53	6.3	230	1.26	0.11	0.78	3.03	57.0	18.6	115	3.92	165.5
407758		4.58	0.010	0.62	10.10	9.8	250	1.36	0.13	0.58	1.69	61.8	14.8	116	3.88	149.0
407759		4.79	0.011	0.55	10.20	11.1	280	1.79	0.09	0.33	2.68	90.1	12.4	135	4.17	154.5
407760		2.11	0.048	1.11	8.17	67.2	250	1.71	0.23	0.27	2.63	59.9	36.8	125	3.40	139.5



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 16-JUIL-2018  
 Compte: MINVIR

Projet: Kan

<b>CERTIFICAT D'ANALYSE VO18154577</b>
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Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
407741		21.9	6.24	0.15	1.5	0.260	0.086	0.84	26.4	10.2	1.58	7950	70.4	0.09	3.1	141.0
407742		20.0	6.24	0.13	1.5	0.125	0.042	0.87	26.1	11.8	1.75	11900	63.2	0.08	3.7	87.9
407743		21.9	3.92	0.10	0.9	0.049	0.024	0.28	16.4	11.6	2.13	12350	22.7	0.03	2.4	43.3
407744		19.85	5.95	0.10	1.2	0.129	0.042	0.47	20.4	18.3	1.76	12600	38.1	0.05	2.6	69.0
407745		19.60	5.25	0.09	1.1	0.095	0.035	0.27	18.3	19.1	1.82	12700	32.4	0.04	2.0	52.7
407746		19.70	5.56	0.10	1.0	0.137	0.047	0.27	19.4	17.5	1.85	14300	30.9	0.05	2.1	58.5
407747		18.00	9.68	0.12	2.1	0.099	0.046	0.90	27.6	28.7	1.99	5020	21.6	0.06	2.7	145.0
407748		20.9	6.90	0.14	1.7	0.266	0.095	0.52	29.8	20.6	2.00	5490	78.7	0.04	2.5	202
407749		7.63	18.25	0.08	4.1	0.022	0.069	0.93	23.0	13.9	3.04	984	1.79	1.79	19.6	146.5
407750		10.95	19.35	0.13	4.4	0.205	0.124	3.18	37.7	27.7	1.05	1450	52.4	0.18	10.2	116.5
407751		8.80	25.4	0.14	5.4	0.078	0.141	4.41	46.6	31.7	0.76	295	11.25	0.24	12.8	103.0
407752		10.45	24.6	0.18	7.3	0.094	0.146	3.79	44.6	27.4	1.20	507	9.49	0.21	30.2	128.0
407753		8.54	22.9	0.15	4.1	0.121	0.171	4.14	33.1	22.2	0.80	307	9.13	0.22	19.7	125.5
407754		10.65	21.8	0.16	4.0	0.116	0.187	4.02	32.7	20.8	0.79	268	9.72	0.22	17.5	169.5
407755		11.90	21.9	0.16	4.0	0.118	0.177	3.65	31.3	29.6	1.41	470	8.47	0.19	19.4	180.0
407756		0.16	0.37	0.13	0.1	<0.005	0.005	0.06	0.8	10.1	12.70	279	0.13	0.03	0.5	0.8
407757		9.73	23.7	0.16	4.1	0.109	0.197	4.41	33.5	17.7	0.82	257	9.79	0.22	21.0	165.5
407758		9.39	26.0	0.17	4.7	0.087	0.166	4.59	36.2	29.4	1.01	156	9.65	0.22	23.0	150.0
407759		10.00	27.0	0.18	5.6	0.082	0.180	4.70	48.3	31.5	0.87	113	10.80	0.22	32.2	154.0
407760		14.20	22.0	0.18	4.6	0.160	0.138	3.63	31.8	27.8	0.75	116	14.95	0.16	24.2	174.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18154577**

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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
407741		2730	24.7	55.0	0.064	6.83	3.50	3.9	26	0.8	69.9	0.18	0.82	2.72	0.040	2.33
407742		2640	21.8	54.8	0.051	4.45	3.31	3.9	16	1.0	74.0	0.22	0.70	2.85	0.049	2.34
407743		2780	9.7	20.6	0.017	2.06	1.38	2.2	7	0.5	68.5	0.13	0.36	1.63	0.025	0.82
407744		2190	15.7	27.9	0.032	3.42	2.50	3.4	12	0.8	66.2	0.15	0.46	2.61	0.036	1.04
407745		2520	13.6	11.7	0.033	3.09	1.93	3.0	10	0.4	68.8	0.12	0.39	2.26	0.032	0.51
407746		2230	13.9	9.0	0.030	3.41	2.12	3.1	10	0.2	70.3	0.14	0.37	2.35	0.035	0.48
407747		2250	21.5	31.5	0.026	7.57	3.42	7.0	13	1.0	86.4	0.18	0.50	5.41	0.059	1.24
407748		3220	49.1	17.1	0.074	9.49	9.41	4.8	17	0.6	84.9	0.17	0.81	3.12	0.045	0.96
407749		1200	14.6	41.7	<0.002	0.03	1.04	19.6	1	1.8	363	1.16	<0.05	4.66	0.940	0.23
407750		890	33.7	89.9	0.048	5.37	6.27	17.7	8	2.4	73.0	0.63	0.49	5.14	0.238	3.80
407751		310	18.1	119.0	0.013	4.39	2.14	21.8	4	2.8	65.2	0.77	0.29	6.21	0.351	4.83
407752		340	15.1	99.1	0.012	5.12	1.86	19.4	3	3.2	80.9	1.84	0.23	6.91	0.398	3.51
407753		620	15.4	97.7	0.010	4.43	2.39	25.0	2	2.8	64.2	1.15	0.18	3.97	0.595	3.62
407754		400	22.7	91.9	0.015	6.05	2.55	23.7	2	2.6	58.5	1.04	0.22	4.25	0.443	3.40
407755		440	26.3	79.1	0.011	6.18	3.58	26.0	3	2.3	66.1	1.16	0.23	4.30	0.472	2.96
407756		20	2.0	1.9	<0.002	0.02	<0.05	0.3	<1	<0.2	149.5	<0.05	<0.05	0.21	0.011	0.10
407757		510	20.5	98.4	0.012	5.59	2.30	25.6	2	2.9	55.8	1.28	0.15	4.24	0.597	3.54
407758		620	24.6	99.3	0.012	4.93	3.86	30.3	2	2.6	47.2	1.38	0.20	4.62	0.682	3.72
407759		540	24.7	105.0	0.014	5.35	2.94	33.5	3	3.2	40.2	1.99	0.17	6.26	0.616	4.17
407760		440	55.3	87.2	0.020	>10.0	9.56	19.1	4	2.8	30.4	1.61	0.78	5.03	0.461	3.85



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 16-JUIL-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154577**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
407741		36.2	616	0.6	22.0	4000	56.5
407742		31.5	551	0.5	21.2	1520	56.2
407743		12.7	243	0.3	15.2	647	35.5
407744		18.1	351	0.3	15.1	1660	45.5
407745		15.8	301	0.6	15.0	1200	41.2
407746		16.5	325	4.4	14.2	1480	39.7
407747		13.3	327	0.5	14.2	934	74.5
407748		40.3	717	1.1	20.9	2140	65.1
407749		1.2	153	2.0	20.0	139	148.0
407750		28.3	607	1.9	16.3	1560	162.0
407751		11.7	186	1.7	11.3	778	192.5
407752		10.2	158	1.5	15.4	838	278
407753		17.2	187	1.6	10.8	919	166.0
407754		14.5	179	1.4	10.0	1060	161.0
407755		14.0	170	1.5	10.5	894	153.5
407756		0.5	3	0.2	1.1	20	3.5
407757		15.7	188	2.0	10.7	1070	168.0
407758		16.6	199	2.3	13.0	610	184.5
407759		17.7	211	2.4	15.0	793	220
407760		18.7	212	2.1	12.4	709	179.0





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **16-JUIL-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18154577**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 1-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18158271

Projet: Kan  
Bon de commande #: KANDH18-020  
Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 1-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18158271**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
442281		4.48	0.002	0.33	8.95	10.2	400	2.18	0.18	0.13	2.51	50.5	19.8	92	5.61	98.6
442282		4.15	0.001	0.25	8.74	7.6	440	1.81	0.17	0.83	1.58	49.8	17.6	90	5.11	62.5
442283		3.51	<0.001	0.18	6.23	64.4	140	0.59	0.01	5.62	0.35	6.63	50.6	124	1.25	107.5
442284		4.67	<0.001	0.16	6.64	62.6	90	0.48	0.01	4.58	0.25	8.02	52.9	137	1.10	108.5
442285		2.43	<0.001	0.05	7.43	24.6	210	1.19	0.02	2.90	0.26	33.0	26.4	96	2.68	74.7
442286		3.81	<0.001	0.04	6.26	47.7	170	0.96	0.01	6.90	0.41	16.95	39.6	108	1.86	45.5
442287		5.22	<0.001	0.11	7.55	36.1	270	1.10	0.01	3.35	0.28	31.9	36.4	110	2.83	109.5
442288		2.71	0.001	0.29	8.90	80.4	420	2.00	0.26	0.49	0.43	54.8	21.2	79	5.59	63.9
442289		0.06	2.56	0.47	7.14	11.8	330	1.17	0.17	5.04	0.08	41.9	57.2	324	0.69	81.2
442290		4.52	0.001	0.35	8.32	6.4	340	1.91	0.12	1.34	1.08	56.0	15.4	79	4.53	93.1
442291		5.18	0.017	0.71	9.16	30.6	300	1.66	0.18	0.94	1.88	68.9	23.4	104	5.47	155.0
442292		5.40	0.094	1.60	5.63	143.5	110	1.25	0.29	0.86	2.80	72.6	26.9	52	3.25	156.5
442293		4.85	0.082	1.43	5.88	154.5	90	1.69	0.27	0.86	4.27	60.9	24.9	69	3.36	133.5
442294		4.87	0.043	1.49	4.09	148.0	130	1.31	0.18	2.84	7.11	53.9	18.4	52	2.70	327
442295		4.44	0.057	1.88	2.05	45.2	80	1.01	0.20	2.98	11.20	44.6	10.9	41	2.36	333
442296		0.24	0.017	0.48	0.53	1.0	40	0.26	0.06	29.8	3.47	14.15	0.7	9	0.58	88.8
442297		4.54	0.033	0.74	8.38	78.6	230	2.21	0.21	1.32	3.10	67.0	21.5	95	4.02	101.0
442298		4.79	0.055	1.42	3.60	190.5	100	1.40	0.37	1.20	15.55	40.7	41.5	55	2.81	146.0
442299		4.78	0.081	1.30	6.36	115.0	100	1.79	0.27	0.67	3.42	57.3	26.0	84	3.02	136.0
442300		3.60	0.120	1.96	4.79	129.5	90	1.64	0.41	0.42	4.39	48.6	35.7	75	2.57	170.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 1-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18158271**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
442281		9.15	25.1	1.43	2.3	0.020	0.060	4.95	27.0	43.1	1.15	497	4.76	0.05	7.7	56.3
442282		7.58	23.7	1.06	2.5	0.018	0.049	4.44	25.7	40.6	1.53	460	4.65	0.06	7.6	51.0
442283		9.38	15.25	0.69	1.0	0.006	0.056	1.37	2.4	52.0	5.80	1040	0.28	0.02	2.0	98.0
442284		9.33	16.75	0.85	1.0	<0.005	0.066	1.35	2.9	61.0	5.88	862	0.28	0.03	1.7	101.0
442285		8.68	21.0	0.74	2.1	0.014	0.054	2.56	16.1	46.8	3.09	818	2.37	0.05	5.4	60.1
442286		9.20	15.95	0.41	1.5	0.019	0.061	1.97	7.1	41.3	3.55	1480	0.45	0.04	3.3	71.3
442287		9.64	20.7	0.93	1.9	0.011	0.054	2.62	15.7	48.5	3.18	925	1.93	0.05	4.9	71.8
442288		8.60	24.5	1.12	2.5	0.021	0.059	4.72	28.7	30.1	1.37	356	5.49	0.09	6.6	55.6
442289		7.87	19.90	0.43	3.6	0.057	0.063	1.05	20.4	9.5	5.83	1090	3.31	2.09	31.0	368
442290		8.87	22.1	0.81	3.1	0.035	0.063	4.39	29.5	24.9	1.43	739	3.56	0.16	8.3	57.0
442291		12.15	26.2	1.14	4.8	0.095	0.132	4.87	38.8	31.9	1.06	312	12.25	0.16	11.6	96.4
442292		19.45	19.35	0.66	4.8	0.366	0.131	2.92	39.4	22.6	0.86	320	20.2	0.08	19.4	146.0
442293		17.75	18.65	0.76	3.1	0.427	0.110	2.97	33.4	23.6	0.81	403	24.9	0.09	9.6	153.0
442294		17.50	11.50	1.00	1.6	0.231	0.075	2.11	33.1	17.3	1.49	2810	89.8	0.06	3.8	249
442295		17.85	7.02	0.47	1.4	0.255	0.088	1.08	27.8	10.9	1.48	3100	142.5	0.03	4.6	277
442296		3.71	1.67	0.05	0.4	0.072	0.038	0.28	8.8	3.4	2.14	715	29.5	0.03	2.0	52.6
442297		10.70	23.2	0.85	4.5	0.232	0.090	4.33	37.3	28.5	1.04	635	18.85	0.15	10.5	124.5
442298		15.55	9.28	0.15	1.4	0.546	0.114	1.84	25.0	15.4	0.70	770	110.0	0.05	2.4	187.0
442299		16.35	17.95	0.13	4.3	0.326	0.150	3.32	28.6	28.0	0.76	418	16.25	0.14	11.8	164.0
442300		20.3	15.00	0.10	2.3	0.416	0.160	2.48	25.1	24.1	0.65	415	17.40	0.07	5.1	125.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 1-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18158271**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
442281		130	12.8	167.0	0.011	3.05	2.41	12.8	4	1.7	20.2	0.65	0.19	9.61	0.290	1.36
442282		170	11.1	135.5	0.011	1.99	2.49	14.2	2	1.5	49.6	0.61	0.09	9.21	0.322	1.39
442283		300	4.8	39.2	<0.002	0.07	0.38	40.5	1	0.4	230	0.13	<0.05	0.20	0.457	0.41
442284		310	2.8	37.6	<0.002	0.06	0.38	44.1	1	0.5	191.5	0.12	<0.05	0.19	0.404	0.43
442285		210	3.8	79.3	0.005	0.32	0.37	23.6	1	0.7	98.0	0.41	<0.05	5.40	0.433	0.99
442286		270	4.7	56.3	<0.002	0.22	0.39	34.3	1	0.6	208	0.24	<0.05	1.85	0.513	0.77
442287		250	4.0	80.6	0.005	0.34	0.67	29.2	1	0.8	97.9	0.39	<0.05	5.06	0.471	1.18
442288		170	13.3	143.0	0.009	3.25	3.56	12.1	3	1.5	32.5	0.39	0.17	10.30	0.179	2.31
442289		1920	5.1	28.6	<0.002	0.04	0.33	21.7	<1	1.4	498	1.72	0.10	2.64	1.120	0.08
442290		220	11.3	121.0	0.005	4.08	2.50	13.5	3	1.8	64.7	0.55	0.15	8.67	0.203	2.82
442291		260	24.8	122.5	0.014	7.63	6.82	20.8	3	2.9	52.9	0.69	0.40	5.87	0.321	3.99
442292		260	83.2	76.4	0.031	>10.0	20.6	8.3	6	3.1	43.4	1.28	1.13	6.81	0.178	3.78
442293		340	84.3	76.0	0.027	>10.0	20.7	9.5	7	2.4	45.7	0.63	0.77	5.60	0.165	4.18
442294		2800	67.4	55.4	0.048	>10.0	16.80	8.0	15	1.2	91.4	0.23	0.28	3.57	0.110	2.42
442295		2600	85.2	34.1	0.094	>10.0	19.15	5.1	19	1.0	96.9	0.26	0.29	2.87	0.059	1.43
442296		760	17.6	7.3	0.020	2.17	5.10	1.1	5	0.3	95.9	0.17	0.05	0.86	0.022	0.32
442297		430	45.6	101.0	0.020	8.88	12.10	16.9	6	2.2	48.4	0.65	0.49	5.61	0.269	4.70
442298		690	80.4	53.6	0.077	>10.0	23.7	7.2	11	1.1	38.8	0.15	0.66	3.83	0.092	2.66
442299		350	68.4	79.3	0.024	>10.0	17.45	13.0	6	2.8	36.4	0.73	1.20	5.51	0.204	4.06
442300		200	91.1	69.6	0.018	>10.0	21.5	9.1	7	3.6	23.2	0.29	1.84	4.73	0.121	3.37



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 1-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18158271**

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		U	V	W	Y	Zn	Zr	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	0.01	0.01
442281		3.5	231	1.5	5.2	284	81.4	83.6	95.6
442282		5.0	264	1.3	5.8	235	85.7		96.4
442283		0.1	294	0.6	4.4	125	51.6		
442284		0.1	303	0.4	4.2	104	38.4		
442285		3.4	284	0.9	7.1	217	75.5		
442286		1.0	277	1.2	7.4	222	55.1		
442287		2.6	286	0.8	6.6	219	71.9		
442288		5.2	249	1.0	6.5	170	88.4		
442289		0.6	151	3.5	20.9	109	150.0		
442290		4.7	127	1.2	7.9	307	113.5		
442291		11.4	169	1.5	11.9	533	178.5		
442292		12.4	186	1.5	14.2	800	186.5		
442293		14.5	257	2.8	11.3	921	121.5		
442294		39.8	709	3.3	22.5	1310	63.5		
442295		52.1	1040	3.3	25.0	1940	61.9		
442296		11.2	206	1.0	7.5	660	17.7		
442297		14.3	228	2.4	12.7	629	174.0		
442298		40.3	958	3.5	18.2	2960	54.2		
442299		14.4	199	1.6	11.8	929	159.5		
442300		8.7	164	1.2	9.0	1100	88.6		



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **1-AOUT-2018**  
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**CERTIFICAT D'ANALYSE VO18158271**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
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## CERTIFICAT VO18158274

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Bon de commande #: KANDH18-21

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.

Les résultats sont transmis à:

GLENN ASCH  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

SIMON HOULE  
LIZ STOCK

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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 Finalisée date: 20-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18158274**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456401		1.91	0.021	1.30	2.97	26.8	100	1.28	0.25	1.11	2.63	46.3	32.4	51	1.71	362
456402		1.63	0.007	0.20	0.22	48.8	10	0.16	0.07	0.96	0.11	8.35	3.3	18	0.12	52.5
456403		2.24	0.004	0.03	0.13	1.9	10	0.33	0.03	5.96	0.11	8.37	2.5	9	0.19	3.9
456404		2.45	0.700	0.05	0.17	10.6	20	0.37	0.03	3.99	0.07	8.85	3.7	10	0.43	5.1
456405		2.57	0.317	0.13	0.38	8.3	20	0.26	0.05	6.36	0.26	5.23	4.3	9	0.69	64.9
456406		2.44	0.336	0.07	0.29	10.6	20	0.30	0.04	3.95	0.18	12.65	4.9	6	1.19	29.3
456407		2.41	0.035	0.03	0.27	5.1	20	0.27	0.02	4.37	0.10	12.50	4.4	10	1.15	9.3
456408		2.46	0.041	0.02	0.11	0.6	10	0.21	0.01	2.18	0.11	6.11	4.0	5	0.48	10.7
456409		0.06	7.77	1.34	6.22	34.7	320	1.03	0.50	3.03	0.09	31.1	44.1	326	0.67	117.0
456410		2.52	0.633	0.29	0.62	1.8	40	0.45	0.05	6.20	0.42	5.23	9.7	4	0.63	81.9
456411		2.52	0.260	0.09	0.75	1.0	30	0.62	0.05	1.83	0.14	17.05	13.5	18	1.18	16.0
456412		2.42	0.004	0.04	0.58	3.7	10	0.62	0.02	0.98	0.07	13.70	7.7	17	0.70	6.5
456413		4.23	0.016	0.37	7.12	44.7	330	3.16	0.18	0.20	0.33	56.6	19.1	87	15.50	49.2
456414		4.41	0.016	0.29	8.79	1.8	450	2.17	0.26	0.24	1.81	60.9	16.1	84	9.19	65.6
456415		4.56	0.015	0.31	8.42	1.4	420	2.44	0.25	0.20	2.43	64.0	18.6	87	7.94	70.2
456416		0.22	0.003	0.01	0.11	0.3	20	0.06	0.01	33.8	0.02	1.27	0.7	2	0.10	2.0
456417		2.33	0.011	0.17	8.72	0.9	480	1.90	0.21	0.56	0.45	56.7	13.6	87	5.85	61.4
456418		4.70	0.002	0.15	6.84	59.0	210	0.70	0.01	4.82	0.26	18.70	38.9	129	1.97	102.5
456419		3.60	0.005	0.23	6.08	71.4	120	0.59	0.01	5.07	0.40	10.70	43.0	119	1.43	140.0
456420		2.92	0.005	0.08	8.22	0.7	510	2.10	0.12	0.75	0.22	57.2	13.8	85	4.99	82.1



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18158274**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456401		23.6	10.95	0.16	2.0	0.090	0.091	1.45	25.3	15.2	1.28	1550	18.95	0.05	7.0	134.5
456402		8.87	1.18	0.10	0.1	0.010	0.013	0.08	4.5	1.9	1.27	2050	3.12	0.01	2.1	14.7
456403		17.05	1.13	0.08	0.1	<0.005	<0.005	0.04	5.1	2.1	4.15	4610	0.63	0.01	1.0	5.4
456404		17.95	1.14	0.09	0.1	0.008	<0.005	0.05	5.3	1.9	3.14	4670	0.73	<0.01	1.3	4.9
456405		15.30	1.41	0.08	<0.1	0.013	0.021	0.08	2.8	2.9	3.09	4530	0.78	0.01	0.5	5.8
456406		24.6	1.43	0.09	0.2	0.008	0.013	0.06	7.7	2.0	3.60	7730	0.37	<0.01	1.5	4.1
456407		23.1	1.15	0.10	0.1	<0.005	0.009	0.06	8.4	2.1	3.51	7860	0.68	<0.01	1.6	3.5
456408		24.7	0.52	0.08	<0.1	<0.005	0.012	0.02	3.8	1.1	3.80	6790	0.33	<0.01	0.5	2.2
456409		5.69	15.55	0.08	2.4	0.163	0.045	1.07	15.8	15.0	4.10	760	6.14	1.22	16.8	258
456410		26.2	2.39	0.07	<0.1	0.014	0.051	0.19	2.8	4.3	3.61	6650	0.38	0.01	0.5	18.8
456411		26.5	3.03	0.08	0.6	<0.005	0.033	0.21	8.9	4.5	3.40	11100	0.73	<0.01	5.4	8.6
456412		24.4	2.18	0.06	0.5	<0.005	0.010	0.17	7.1	3.5	2.91	11750	0.75	<0.01	4.5	10.9
456413		11.40	20.1	0.14	2.0	0.013	0.054	4.30	28.8	50.4	1.35	796	4.60	0.03	13.2	55.3
456414		7.61	22.5	0.16	2.4	0.020	0.051	5.13	32.5	54.2	1.14	436	4.37	0.05	8.0	52.1
456415		8.82	21.8	0.15	2.5	0.028	0.057	4.85	33.6	47.8	1.20	469	3.84	0.05	11.6	58.3
456416		0.16	0.38	<0.05	0.1	<0.005	0.007	0.04	1.2	1.3	1.58	100	0.07	0.03	0.2	0.6
456417		6.50	23.2	0.13	2.5	0.018	0.052	4.53	29.3	48.3	1.41	331	4.43	0.06	7.5	45.4
456418		8.11	16.15	0.07	1.3	0.005	0.058	2.09	8.2	39.7	3.59	1020	1.12	0.53	3.3	91.9
456419		7.93	14.65	0.07	1.2	<0.005	0.066	1.56	4.5	39.1	3.78	1110	0.79	0.63	2.7	106.0
456420		6.76	22.2	0.11	1.9	<0.005	0.066	3.62	30.2	45.2	1.66	423	3.91	0.12	6.9	48.4



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18158274**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456401		430	58.5	43.7	0.016	>10.0	14.60	7.8	9	1.7	48.6	0.38	0.53	3.08	0.104	1.50
456402		160	4.8	2.5	0.002	2.12	1.35	0.7	1	0.2	26.9	0.10	0.11	0.29	0.015	0.11
456403		110	1.7	2.3	<0.002	0.31	0.54	0.4	<1	<0.2	80.9	0.06	<0.05	0.19	0.007	0.08
456404		160	1.5	2.9	<0.002	0.39	0.28	0.5	1	<0.2	67.0	0.08	0.05	0.20	0.013	0.10
456405		80	2.7	3.7	<0.002	1.51	0.19	0.9	1	<0.2	166.5	0.07	0.12	0.06	<0.005	0.13
456406		270	2.0	3.0	<0.002	1.18	0.20	0.4	1	<0.2	90.8	0.12	0.09	0.31	0.009	0.09
456407		790	1.6	3.0	<0.002	0.46	0.11	0.6	<1	<0.2	80.3	0.08	0.06	0.30	0.017	0.10
456408		230	1.1	1.0	<0.002	0.56	0.10	0.2	1	<0.2	56.2	<0.05	<0.05	0.06	<0.005	0.03
456409		1110	9.9	39.6	<0.002	0.09	0.83	21.0	1	1.0	285	0.97	0.22	2.37	0.685	0.21
456410		30	4.4	6.3	<0.002	4.87	0.19	1.5	4	0.2	253	<0.05	0.31	0.04	<0.005	0.16
456411		460	2.0	8.4	<0.002	1.24	0.21	2.1	1	0.2	49.7	0.30	0.11	0.95	0.078	0.23
456412		470	1.7	8.3	<0.002	0.45	0.32	1.9	1	0.2	25.8	0.28	<0.05	0.74	0.075	0.17
456413		380	18.1	196.0	0.009	3.50	3.12	12.4	2	1.4	20.9	0.86	0.10	7.78	0.300	2.61
456414		160	14.1	179.5	0.012	2.51	3.07	12.1	4	1.7	23.8	0.65	0.13	10.90	0.282	1.80
456415		210	16.2	175.5	0.011	2.93	2.95	12.2	3	1.6	20.8	0.84	0.14	10.60	0.305	1.73
456416		50	0.9	1.7	<0.002	0.02	0.10	0.2	<1	<0.2	81.7	<0.05	<0.05	0.17	0.007	0.02
456417		160	13.7	144.5	0.013	1.53	2.53	12.3	2	1.6	34.8	0.61	0.14	10.70	0.271	1.43
456418		270	4.4	64.3	0.004	0.19	0.34	34.0	<1	0.6	151.0	0.24	<0.05	2.41	0.423	0.69
456419		300	4.3	52.0	0.003	0.16	0.27	36.4	1	0.6	172.5	0.19	<0.05	0.94	0.524	0.54
456420		190	6.2	125.5	0.009	0.85	1.04	10.7	2	1.7	39.4	0.58	0.10	10.25	0.244	1.31



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18158274**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U	V	W	Y	Zn	Zr	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	0.01	0.01
456401		6.1	136	1.0	8.7	601	82.7	72.9	96.9
456402		1.5	19	0.2	3.1	34	7.7		96.8
456403		0.3	18	0.2	5.6	20	5.3		
456404		0.3	19	0.2	5.4	18	5.7		
456405		0.1	15	0.1	7.1	28	2.1		
456406		0.2	17	0.2	6.4	35	8.9		
456407		0.3	22	0.2	7.2	27	7.3		
456408		<0.1	7	0.1	4.6	23	2.3		
456409		0.6	147	9.1	14.7	86	104.0		
456410		<0.1	19	0.2	8.7	50	1.2		
456411		0.6	43	0.2	6.5	40	24.8		
456412		0.5	43	0.3	5.3	20	21.8		
456413		6.0	227	1.6	7.7	149	77.7		
456414		4.6	246	1.6	6.6	222	84.5		
456415		5.6	252	1.5	7.3	319	87.8		
456416		1.8	3	<0.1	2.2	4	2.3		
456417		4.8	248	1.5	6.2	161	85.9		
456418		1.4	280	0.8	5.1	142	49.3		
456419		0.5	294	0.6	4.5	139	42.8		
456420		4.4	234	1.4	6.1	184	70.3		



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	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
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plus les pages d'annexe  
Finalisée date: 20-JUIL-2018  
Compte: MINVIR

## CERTIFICAT VO18158276

Projet: Kan

Bon de commande #: KANDH18-018

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.

Les résultats sont transmis à:

GLENN ASCH  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

SIMON HOULE  
LIZ STOCK

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18158276**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
407841		4.76	0.025	0.59	9.47	83.4	130	2.07	0.19	0.21	3.44	62.6	28.6	160	4.03	147.5
407842		5.33	0.074	0.88	6.98	91.7	90	1.88	0.33	1.15	2.15	54.5	34.9	103	3.22	151.5
407843		4.80	0.040	1.19	6.07	57.6	70	2.01	0.47	0.43	2.29	57.7	39.8	78	3.09	293
407844		1.81	0.010	1.09	6.45	2.8	110	2.53	0.35	0.67	3.43	69.6	14.6	83	3.57	429
407845		3.48	0.005	0.06	0.13	12.7	10	0.28	0.01	3.82	0.07	7.66	4.4	8	0.09	18.5
407846		2.51	0.036	0.02	0.11	0.8	10	0.37	0.01	2.40	0.11	10.60	6.5	3	0.33	5.9
407847		2.55	2.20	0.55	0.14	2.0	10	0.37	0.02	2.52	0.11	14.60	10.0	5	0.23	15.1
407848		2.57	0.176	0.01	0.15	3.7	10	0.39	0.02	1.86	0.13	16.45	10.8	3	0.22	14.2
407849		0.06	7.86	1.28	6.13	35.8	310	0.93	0.52	3.01	0.09	30.9	39.5	319	0.66	116.5
407850		2.65	0.006	0.01	0.03	4.7	10	0.49	0.02	1.39	0.09	18.00	12.7	5	0.19	2.3
442251		2.68	0.038	0.01	0.02	1.2	10	0.28	0.02	1.18	0.04	24.2	9.8	1	0.06	5.4
442252		2.54	0.415	0.03	0.12	1.1	10	0.24	0.01	0.95	0.19	19.45	11.6	4	0.22	12.5
442253		3.18	0.138	0.01	0.08	0.6	10	0.30	0.01	1.32	0.10	16.25	6.1	3	0.23	3.1
442254		2.33	0.003	0.01	0.05	2.9	<10	0.45	0.02	1.13	0.02	7.81	7.0	5	0.64	1.5
442255		2.79	0.001	0.01	0.07	0.8	10	1.09	0.01	1.28	<0.02	8.37	6.4	3	1.67	1.8
442256		0.22	0.004	<0.01	0.05	<0.2	40	0.07	0.01	32.0	<0.02	1.51	0.6	2	0.06	2.1
442257		2.80	0.002	<0.01	0.15	0.6	10	1.06	0.01	1.68	<0.02	13.30	5.7	3	2.53	1.8
442258		2.90	0.001	0.01	0.05	1.0	10	0.48	0.02	1.25	<0.02	5.38	4.9	2	1.56	1.7
442259		2.51	0.001	<0.01	0.06	<0.2	10	0.98	0.01	1.07	<0.02	6.84	4.1	3	1.72	1.8
442260		2.61	<0.001	<0.01	0.03	1.2	10	0.98	0.01	1.13	<0.02	6.96	3.8	5	1.08	1.4



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**CERTIFICAT D'ANALYSE VO18158276**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
407841		13.35	23.2	0.16	4.8	0.258	0.183	4.50	33.2	25.1	0.60	72	15.30	0.16	23.7	185.0
407842		16.15	19.70	0.16	4.5	0.267	0.140	3.42	27.2	23.0	0.94	408	16.90	0.12	18.9	152.5
407843		21.8	18.45	0.15	3.6	0.203	0.137	2.95	29.2	21.4	0.62	178	23.1	0.10	13.1	130.0
407844		26.1	18.60	0.16	3.9	0.197	0.166	3.09	37.4	22.4	0.77	324	22.5	0.10	12.8	162.0
407845		24.4	0.52	0.06	0.1	<0.005	0.005	0.03	4.5	2.2	4.20	9120	0.64	<0.01	1.5	7.2
407846		23.0	0.47	0.08	<0.1	<0.005	<0.005	0.01	6.7	1.4	3.74	8460	0.29	<0.01	0.6	2.5
407847		24.5	0.66	0.08	<0.1	0.046	0.007	0.02	9.6	2.1	3.89	8670	1.11	<0.01	0.6	7.9
407848		27.3	0.69	0.07	<0.1	<0.005	0.006	0.01	11.5	2.2	4.33	8710	0.41	<0.01	0.5	3.3
407849		5.61	16.45	0.07	2.6	0.171	0.052	1.05	15.9	14.4	4.08	753	6.45	1.20	18.6	254
407850		26.7	0.36	0.09	<0.1	<0.005	<0.005	0.01	13.7	0.8	4.03	8990	0.40	<0.01	0.4	1.5
442251		27.6	0.34	0.08	<0.1	<0.005	<0.005	<0.01	17.1	0.7	3.84	9290	0.20	<0.01	0.4	2.1
442252		28.5	0.68	0.07	<0.1	0.015	0.009	0.02	14.5	1.7	4.07	9450	0.36	<0.01	0.4	3.2
442253		26.6	0.49	0.07	<0.1	<0.005	0.005	0.01	11.1	1.1	3.65	11450	0.30	<0.01	0.4	1.6
442254		25.4	0.41	0.07	<0.1	<0.005	<0.005	0.01	5.7	0.6	3.42	14600	0.45	<0.01	0.7	1.4
442255		28.8	0.55	0.07	<0.1	<0.005	<0.005	0.03	6.2	0.5	3.98	16400	0.25	0.01	1.0	2.0
442256		0.98	0.24	<0.05	<0.1	<0.005	0.005	0.01	1.6	1.8	2.51	636	0.13	0.03	0.2	0.5
442257		28.9	0.87	0.07	0.1	<0.005	0.005	0.04	9.9	0.7	4.16	13300	0.17	0.01	2.1	2.2
442258		26.1	0.35	0.06	0.1	<0.005	<0.005	0.03	4.0	0.4	3.62	8720	0.15	0.01	0.9	1.2
442259		27.0	0.44	0.05	<0.1	<0.005	<0.005	0.03	5.1	0.4	3.46	10400	0.20	0.01	1.0	1.4
442260		25.5	0.36	0.05	<0.1	<0.005	<0.005	0.02	5.1	0.3	3.45	8050	0.41	0.01	0.5	1.2





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**CERTIFICAT D'ANALYSE VO18158276**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
407841		670	47.6	101.0	0.019	>10.0	13.25	24.2	4	3.4	27.3	1.46	0.60	4.78	0.582	5.31
407842		450	63.7	70.3	0.024	>10.0	15.10	17.1	4	3.2	47.9	1.19	1.04	4.77	0.341	4.27
407843		240	70.4	70.0	0.034	>10.0	16.30	11.0	6	3.8	25.8	0.83	1.25	6.10	0.179	3.49
407844		200	67.4	77.0	0.031	>10.0	14.00	12.3	7	4.9	34.6	0.84	0.80	6.68	0.205	3.25
407845		100	1.4	0.7	<0.002	0.92	0.26	0.4	<1	<0.2	56.3	<0.05	0.10	0.18	0.009	0.03
407846		90	0.7	0.7	<0.002	0.27	0.09	0.1	1	<0.2	44.9	<0.05	<0.05	0.05	<0.005	0.03
407847		70	3.7	1.1	<0.002	0.49	0.14	0.2	<1	<0.2	39.3	<0.05	0.06	0.06	<0.005	0.03
407848		80	1.0	0.6	<0.002	0.14	0.10	0.2	<1	<0.2	39.2	<0.05	0.05	0.04	<0.005	<0.02
407849		1100	10.9	38.9	<0.002	0.08	0.77	21.9	1	1.0	281	1.05	0.25	2.42	0.677	0.19
407850		50	0.7	0.4	<0.002	0.02	0.12	0.1	<1	<0.2	24.2	<0.05	0.07	0.03	<0.005	<0.02
442251		50	0.5	0.3	<0.002	0.11	0.07	0.1	<1	<0.2	18.6	<0.05	<0.05	0.02	<0.005	<0.02
442252		30	1.5	0.9	<0.002	0.52	0.30	0.1	<1	<0.2	19.5	<0.05	0.06	0.03	<0.005	0.03
442253		60	0.5	0.5	<0.002	0.10	0.07	0.1	<1	<0.2	23.6	<0.05	0.05	0.03	<0.005	<0.02
442254		150	0.5	0.7	<0.002	0.02	0.08	0.1	<1	<0.2	13.5	<0.05	0.05	0.07	<0.005	<0.02
442255		150	0.6	1.5	<0.002	0.01	0.08	0.2	<1	<0.2	14.4	<0.05	<0.05	0.11	<0.005	<0.02
442256		70	0.6	0.3	<0.002	0.01	0.07	0.2	1	<0.2	78.8	<0.05	<0.05	0.07	<0.005	<0.02
442257		290	0.6	2.1	<0.002	0.01	0.11	0.3	<1	<0.2	21.5	0.07	<0.05	0.22	0.008	<0.02
442258		150	0.5	1.3	<0.002	0.01	0.20	0.1	<1	<0.2	14.4	<0.05	0.08	0.09	<0.005	<0.02
442259		270	<0.5	1.5	<0.002	0.01	0.08	0.1	<1	<0.2	13.2	<0.05	<0.05	0.10	0.005	<0.02
442260		140	<0.5	0.9	<0.002	0.01	0.08	0.1	<1	<0.2	11.9	<0.05	<0.05	0.04	<0.005	<0.02



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18158276**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U	V	W	Y	Zn	Zr	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	0.01	0.01
407841		25.7	242	2.1	15.0	1080	184.0	75.4	96.3
407842		19.9	203	1.6	12.9	669	180.0		96.1
407843		18.7	223	1.6	10.7	685	145.0		
407844		16.5	222	2.1	11.1	977	152.5		
407845		0.2	11	0.2	5.1	21	4.8		
407846		0.1	8	0.1	5.0	19	3.1		
407847		0.1	9	0.1	5.4	26	2.3		
407848		0.1	11	0.1	6.0	26	2.6		
407849		0.6	147	10.6	16.4	86	98.5		
407850		0.1	7	0.1	5.7	15	3.1		
442251		0.1	8	0.1	6.3	13	3.5		
442252		0.1	10	0.1	5.3	41	6.8		
442253		0.1	8	0.1	5.5	18	3.0		
442254		0.1	7	0.2	6.6	6	2.2		
442255		0.1	9	0.3	8.7	4	3.1		
442256		0.1	1	0.1	2.6	3	1.6		
442257		0.1	17	0.2	11.2	5	7.1		
442258		0.1	6	0.1	6.7	4	3.1		
442259		0.1	8	0.2	7.0	4	2.6		
442260		0.1	7	0.2	7.9	3	1.9		



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **20-JUIL-2018**  
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**CERTIFICAT D'ANALYSE VO18158276**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
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Les résultats sont transmis à:

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AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

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LIZ STOCK

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\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18158276**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
407841		4.76	0.025	0.59	9.47	83.4	130	2.07	0.19	0.21	3.44	62.6	28.6	160	4.03	147.5
407842		5.33	0.074	0.88	6.98	91.7	90	1.88	0.33	1.15	2.15	54.5	34.9	103	3.22	151.5
407843		4.80	0.040	1.19	6.07	57.6	70	2.01	0.47	0.43	2.29	57.7	39.8	78	3.09	293
407844		1.81	0.010	1.09	6.45	2.8	110	2.53	0.35	0.67	3.43	69.6	14.6	83	3.57	429
407845		3.48	0.005	0.06	0.13	12.7	10	0.28	0.01	3.82	0.07	7.66	4.4	8	0.09	18.5
407846		2.51	0.036	0.02	0.11	0.8	10	0.37	0.01	2.40	0.11	10.60	6.5	3	0.33	5.9
407847		2.55	2.20	0.55	0.14	2.0	10	0.37	0.02	2.52	0.11	14.60	10.0	5	0.23	15.1
407848		2.57	0.176	0.01	0.15	3.7	10	0.39	0.02	1.86	0.13	16.45	10.8	3	0.22	14.2
407849		0.06	7.86	1.28	6.13	35.8	310	0.93	0.52	3.01	0.09	30.9	39.5	319	0.66	116.5
407850		2.65	0.006	0.01	0.03	4.7	10	0.49	0.02	1.39	0.09	18.00	12.7	5	0.19	2.3
442251		2.68	0.038	0.01	0.02	1.2	10	0.28	0.02	1.18	0.04	24.2	9.8	1	0.06	5.4
442252		2.54	0.415	0.03	0.12	1.1	10	0.24	0.01	0.95	0.19	19.45	11.6	4	0.22	12.5
442253		3.18	0.138	0.01	0.08	0.6	10	0.30	0.01	1.32	0.10	16.25	6.1	3	0.23	3.1
442254		2.33	0.003	0.01	0.05	2.9	<10	0.45	0.02	1.13	0.02	7.81	7.0	5	0.64	1.5
442255		2.79	0.001	0.01	0.07	0.8	10	1.09	0.01	1.28	<0.02	8.37	6.4	3	1.67	1.8
442256		0.22	0.004	<0.01	0.05	<0.2	40	0.07	0.01	32.0	<0.02	1.51	0.6	2	0.06	2.1
442257		2.80	0.002	<0.01	0.15	0.6	10	1.06	0.01	1.68	<0.02	13.30	5.7	3	2.53	1.8
442258		2.90	0.001	0.01	0.05	1.0	10	0.48	0.02	1.25	<0.02	5.38	4.9	2	1.56	1.7
442259		2.51	0.001	<0.01	0.06	<0.2	10	0.98	0.01	1.07	<0.02	6.84	4.1	3	1.72	1.8
442260		2.61	<0.001	<0.01	0.03	1.2	10	0.98	0.01	1.13	<0.02	6.96	3.8	5	1.08	1.4



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18158276**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
407841		13.35	23.2	0.16	4.8	0.258	0.183	4.50	33.2	25.1	0.60	72	15.30	0.16	23.7	185.0
407842		16.15	19.70	0.16	4.5	0.267	0.140	3.42	27.2	23.0	0.94	408	16.90	0.12	18.9	152.5
407843		21.8	18.45	0.15	3.6	0.203	0.137	2.95	29.2	21.4	0.62	178	23.1	0.10	13.1	130.0
407844		26.1	18.60	0.16	3.9	0.197	0.166	3.09	37.4	22.4	0.77	324	22.5	0.10	12.8	162.0
407845		24.4	0.52	0.06	0.1	<0.005	0.005	0.03	4.5	2.2	4.20	9120	0.64	<0.01	1.5	7.2
407846		23.0	0.47	0.08	<0.1	<0.005	<0.005	0.01	6.7	1.4	3.74	8460	0.29	<0.01	0.6	2.5
407847		24.5	0.66	0.08	<0.1	0.046	0.007	0.02	9.6	2.1	3.89	8670	1.11	<0.01	0.6	7.9
407848		27.3	0.69	0.07	<0.1	<0.005	0.006	0.01	11.5	2.2	4.33	8710	0.41	<0.01	0.5	3.3
407849		5.61	16.45	0.07	2.6	0.171	0.052	1.05	15.9	14.4	4.08	753	6.45	1.20	18.6	254
407850		26.7	0.36	0.09	<0.1	<0.005	<0.005	0.01	13.7	0.8	4.03	8990	0.40	<0.01	0.4	1.5
442251		27.6	0.34	0.08	<0.1	<0.005	<0.005	<0.01	17.1	0.7	3.84	9290	0.20	<0.01	0.4	2.1
442252		28.5	0.68	0.07	<0.1	0.015	0.009	0.02	14.5	1.7	4.07	9450	0.36	<0.01	0.4	3.2
442253		26.6	0.49	0.07	<0.1	<0.005	0.005	0.01	11.1	1.1	3.65	11450	0.30	<0.01	0.4	1.6
442254		25.4	0.41	0.07	<0.1	<0.005	<0.005	0.01	5.7	0.6	3.42	14600	0.45	<0.01	0.7	1.4
442255		28.8	0.55	0.07	<0.1	<0.005	<0.005	0.03	6.2	0.5	3.98	16400	0.25	0.01	1.0	2.0
442256		0.98	0.24	<0.05	<0.1	<0.005	0.005	0.01	1.6	1.8	2.51	636	0.13	0.03	0.2	0.5
442257		28.9	0.87	0.07	0.1	<0.005	0.005	0.04	9.9	0.7	4.16	13300	0.17	0.01	2.1	2.2
442258		26.1	0.35	0.06	0.1	<0.005	<0.005	0.03	4.0	0.4	3.62	8720	0.15	0.01	0.9	1.2
442259		27.0	0.44	0.05	<0.1	<0.005	<0.005	0.03	5.1	0.4	3.46	10400	0.20	0.01	1.0	1.4
442260		25.5	0.36	0.05	<0.1	<0.005	<0.005	0.02	5.1	0.3	3.45	8050	0.41	0.01	0.5	1.2



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18158276**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
407841		670	47.6	101.0	0.019	>10.0	13.25	24.2	4	3.4	27.3	1.46	0.60	4.78	0.582	5.31
407842		450	63.7	70.3	0.024	>10.0	15.10	17.1	4	3.2	47.9	1.19	1.04	4.77	0.341	4.27
407843		240	70.4	70.0	0.034	>10.0	16.30	11.0	6	3.8	25.8	0.83	1.25	6.10	0.179	3.49
407844		200	67.4	77.0	0.031	>10.0	14.00	12.3	7	4.9	34.6	0.84	0.80	6.68	0.205	3.25
407845		100	1.4	0.7	<0.002	0.92	0.26	0.4	<1	<0.2	56.3	<0.05	0.10	0.18	0.009	0.03
407846		90	0.7	0.7	<0.002	0.27	0.09	0.1	1	<0.2	44.9	<0.05	<0.05	0.05	<0.005	0.03
407847		70	3.7	1.1	<0.002	0.49	0.14	0.2	<1	<0.2	39.3	<0.05	0.06	0.06	<0.005	0.03
407848		80	1.0	0.6	<0.002	0.14	0.10	0.2	<1	<0.2	39.2	<0.05	0.05	0.04	<0.005	<0.02
407849		1100	10.9	38.9	<0.002	0.08	0.77	21.9	1	1.0	281	1.05	0.25	2.42	0.677	0.19
407850		50	0.7	0.4	<0.002	0.02	0.12	0.1	<1	<0.2	24.2	<0.05	0.07	0.03	<0.005	<0.02
442251		50	0.5	0.3	<0.002	0.11	0.07	0.1	<1	<0.2	18.6	<0.05	<0.05	0.02	<0.005	<0.02
442252		30	1.5	0.9	<0.002	0.52	0.30	0.1	<1	<0.2	19.5	<0.05	0.06	0.03	<0.005	0.03
442253		60	0.5	0.5	<0.002	0.10	0.07	0.1	<1	<0.2	23.6	<0.05	0.05	0.03	<0.005	<0.02
442254		150	0.5	0.7	<0.002	0.02	0.08	0.1	<1	<0.2	13.5	<0.05	0.05	0.07	<0.005	<0.02
442255		150	0.6	1.5	<0.002	0.01	0.08	0.2	<1	<0.2	14.4	<0.05	<0.05	0.11	<0.005	<0.02
442256		70	0.6	0.3	<0.002	0.01	0.07	0.2	1	<0.2	78.8	<0.05	<0.05	0.07	<0.005	<0.02
442257		290	0.6	2.1	<0.002	0.01	0.11	0.3	<1	<0.2	21.5	0.07	<0.05	0.22	0.008	<0.02
442258		150	0.5	1.3	<0.002	0.01	0.20	0.1	<1	<0.2	14.4	<0.05	0.08	0.09	<0.005	<0.02
442259		270	<0.5	1.5	<0.002	0.01	0.08	0.1	<1	<0.2	13.2	<0.05	<0.05	0.10	0.005	<0.02
442260		140	<0.5	0.9	<0.002	0.01	0.08	0.1	<1	<0.2	11.9	<0.05	<0.05	0.04	<0.005	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 20-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18158276**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Pass2mm % 0.01	Pass75um % 0.01
407841		25.7	242	2.1	15.0	1080	184.0	75.4	96.3
407842		19.9	203	1.6	12.9	669	180.0		96.1
407843		18.7	223	1.6	10.7	685	145.0		
407844		16.5	222	2.1	11.1	977	152.5		
407845		0.2	11	0.2	5.1	21	4.8		
407846		0.1	8	0.1	5.0	19	3.1		
407847		0.1	9	0.1	5.4	26	2.3		
407848		0.1	11	0.1	6.0	26	2.6		
407849		0.6	147	10.6	16.4	86	98.5		
407850		0.1	7	0.1	5.7	15	3.1		
442251		0.1	8	0.1	6.3	13	3.5		
442252		0.1	10	0.1	5.3	41	6.8		
442253		0.1	8	0.1	5.5	18	3.0		
442254		0.1	7	0.2	6.6	6	2.2		
442255		0.1	9	0.3	8.7	4	3.1		
442256		0.1	1	0.1	2.6	3	1.6		
442257		0.1	17	0.2	11.2	5	7.1		
442258		0.1	6	0.1	6.7	4	3.1		
442259		0.1	8	0.2	7.0	4	2.6		
442260		0.1	7	0.2	7.9	3	1.9		





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **20-JUIL-2018**  
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**CERTIFICAT D'ANALYSE VO18158276**

<b>COMMENTAIRE DE CERTIFICAT</b>							
	<b>COMMENTAIRES ANALYTIQUES</b>						
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61						
	<b>ADRESSE DE LABORATOIRE</b>						
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.						
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	PUL-31	PUL-QC	SPL-21
CRU-31	CRU-QC	LOG-21					
PUL-31	PUL-QC	SPL-21					
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.						
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61			
Au-ICP21	Hg-MS42	ME-MS61					



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Page: 1  
Nombre total de pages: 2 (A - D)  
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## CERTIFICAT VO18158278

Projet: Kan

Bon de commande #: KANDH18-019

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.

Les résultats sont transmis à:

GLENN ASCH  
LEE SCHOLL

SIMON HEBERT  
LIZ STOCK

SIMON HOULE  
CORPORATIF WEBTRIEVE

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
442261		2.61	<0.001	0.02	0.04	13.1	<10	0.74	0.02	1.29	<0.02	7.57	4.2	5	1.01	1.4
442262		2.75	<0.001	0.01	0.04	2.8	<10	0.88	0.01	1.11	<0.02	6.95	3.8	5	1.33	0.6
442263		3.05	<0.001	0.01	0.05	8.4	<10	1.31	0.01	1.24	<0.02	6.90	4.0	6	1.55	0.7
442264		2.82	<0.001	0.01	0.04	1.2	<10	1.60	0.01	1.33	<0.02	7.35	4.3	7	1.25	0.8
442265		2.76	<0.001	0.01	0.03	3.1	<10	1.05	0.01	1.10	<0.02	6.09	3.9	7	0.81	0.7
442266		2.81	0.074	0.02	0.05	1.5	<10	0.76	0.01	1.13	0.03	9.05	5.0	3	1.13	1.6
442267		2.64	0.315	0.02	0.11	45.4	10	0.41	0.01	1.12	0.10	11.25	5.1	4	2.81	4.2
442268		2.64	0.140	<0.01	0.04	9.1	20	0.35	0.01	0.93	0.08	9.74	4.7	6	1.12	2.8
442269		0.06	0.673	0.19	6.95	18.8	630	1.52	0.14	4.32	0.21	54.3	41.6	177	1.94	55.3
442270		2.41	0.508	<0.01	0.14	124.0	10	0.34	0.02	1.33	0.10	10.60	4.3	5	3.97	4.7
442271		2.64	5.35	2.12	0.33	15.4	20	0.69	0.03	1.85	0.14	9.52	6.2	5	10.30	16.8
442272		2.70	5.14	0.10	0.31	9.0	30	0.45	0.03	3.07	0.25	10.80	8.3	4	8.38	34.2
442273		2.68	0.213	<0.01	0.06	5.7	10	0.47	0.01	1.28	0.07	8.26	4.1	5	1.40	1.9
442274		2.65	0.894	<0.01	0.05	3.3	10	0.57	0.02	1.21	0.03	7.51	4.7	7	1.34	2.0
442275		2.93	0.147	<0.01	0.08	4.7	10	0.60	0.01	1.55	0.06	8.72	3.7	5	2.18	2.0
442276		0.23	0.004	<0.01	0.24	0.9	60	0.07	0.01	31.2	0.02	1.61	1.7	3	0.11	2.5
442277		3.10	0.053	<0.01	0.04	1.1	<10	0.37	0.01	0.97	0.05	5.54	3.0	7	0.93	2.0
442278		4.43	0.005	0.17	6.20	1.4	190	3.66	0.14	0.87	0.25	60.6	23.6	86	25.5	22.6
442279		4.90	0.007	0.33	7.17	5.8	340	3.35	0.21	0.25	0.14	77.6	24.6	99	18.55	41.4
442280		4.46	0.007	0.15	7.86	0.6	380	2.37	0.15	0.29	0.28	67.0	16.5	88	9.93	54.8



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 19-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18158278**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
442261		28.8	0.36	0.11	<0.1	0.006	0.021	0.02	5.7	0.3	3.86	7750	0.36	0.01	0.6	1.5
442262		27.3	0.42	0.11	<0.1	<0.005	0.014	0.02	5.0	0.2	3.61	8170	0.33	0.01	0.8	0.8
442263		27.1	0.44	0.10	<0.1	0.005	0.011	0.02	4.9	0.3	3.76	7300	0.37	0.01	0.7	0.9
442264		28.0	0.41	0.11	<0.1	<0.005	0.009	0.02	5.2	0.3	3.87	7770	0.50	0.01	0.8	0.9
442265		24.1	0.36	0.10	<0.1	<0.005	<0.005	0.01	4.2	0.3	3.24	8880	0.40	0.01	0.6	0.9
442266		26.7	0.47	0.11	<0.1	<0.005	<0.005	0.02	6.6	0.4	3.50	9580	0.23	0.01	1.0	0.9
442267		29.3	0.55	0.12	<0.1	0.005	0.005	0.04	8.0	0.4	3.73	4040	0.34	0.02	1.0	0.8
442268		27.5	0.28	0.11	<0.1	0.005	<0.005	0.02	6.8	0.3	3.51	2250	0.43	0.01	0.8	1.1
442269		7.19	20.4	0.12	3.6	0.022	0.063	0.87	24.7	14.7	2.84	915	1.74	1.68	19.4	130.5
442270		25.4	0.65	0.10	<0.1	0.009	0.005	0.06	7.4	0.4	3.19	2730	0.39	0.02	0.6	0.9
442271		28.8	1.31	0.11	<0.1	0.048	0.005	0.15	6.6	0.5	3.37	3110	0.38	0.06	0.7	1.2
442272		26.5	1.22	0.11	<0.1	0.017	0.005	0.12	7.2	0.6	3.18	4170	0.29	0.04	0.6	1.5
442273		25.9	0.39	0.10	<0.1	<0.005	<0.005	0.02	5.7	0.3	3.50	4630	0.34	0.01	0.4	0.8
442274		26.5	0.39	0.12	<0.1	<0.005	<0.005	0.02	5.4	0.3	3.33	7650	0.40	0.01	0.6	1.2
442275		27.4	0.55	0.11	<0.1	<0.005	<0.005	0.03	6.0	0.4	3.40	7400	0.38	0.01	1.0	0.9
442276		0.61	0.66	0.06	0.1	<0.005	0.009	0.04	1.6	2.7	3.00	272	0.12	0.09	0.2	1.7
442277		25.3	0.34	0.10	<0.1	<0.005	0.011	0.01	3.8	0.3	2.85	10750	0.42	<0.01	0.6	1.0
442278		14.55	21.4	0.15	1.9	<0.005	0.055	2.98	31.8	55.2	2.25	989	1.00	0.01	15.1	44.7
442279		10.35	23.3	0.17	2.5	0.014	0.061	4.22	40.3	47.1	1.28	488	1.53	0.03	19.5	59.5
442280		8.33	22.9	0.16	2.1	0.007	0.047	4.60	35.4	44.7	1.21	1410	2.14	0.03	9.1	37.1



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 19-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18158278**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
442261		210	0.9	0.9	<0.002	0.02	0.92	0.1	<1	<0.2	14.4	<0.05	0.05	0.06	<0.005	<0.02
442262		140	0.5	1.0	<0.002	0.01	0.52	0.1	<1	<0.2	11.2	<0.05	<0.05	0.06	<0.005	<0.02
442263		120	0.6	1.2	<0.002	0.01	0.78	0.1	<1	<0.2	13.7	<0.05	<0.05	0.06	<0.005	<0.02
442264		160	0.7	1.1	<0.002	0.01	0.59	0.1	<1	<0.2	14.5	<0.05	<0.05	0.07	<0.005	<0.02
442265		70	0.6	0.7	<0.002	<0.01	0.53	0.1	<1	<0.2	12.5	<0.05	<0.05	0.06	<0.005	<0.02
442266		220	0.5	1.2	<0.002	0.08	0.33	0.1	<1	<0.2	18.0	<0.05	<0.05	0.08	<0.005	<0.02
442267		100	<0.5	2.8	<0.002	0.33	0.35	0.2	1	<0.2	23.9	<0.05	0.08	0.07	<0.005	<0.02
442268		70	0.7	1.1	<0.002	0.21	1.07	0.1	<1	<0.2	17.9	<0.05	<0.05	0.05	<0.005	<0.02
442269		1160	14.9	40.5	<0.002	0.03	1.59	20.4	<1	1.7	350	1.25	0.06	5.87	0.894	0.19
442270		40	1.2	3.9	<0.002	0.38	0.54	0.2	<1	<0.2	37.8	<0.05	0.12	0.05	<0.005	<0.02
442271		50	1.4	10.0	<0.002	1.70	0.28	0.3	1	<0.2	57.3	0.05	0.09	0.06	<0.005	<0.02
442272		30	1.9	8.2	<0.002	2.82	0.32	0.4	2	<0.2	108.5	<0.05	0.13	0.07	<0.005	<0.02
442273		50	<0.5	1.4	<0.002	0.16	0.31	0.1	<1	<0.2	26.5	<0.05	<0.05	0.05	<0.005	<0.02
442274		110	1.0	1.4	<0.002	0.24	0.28	0.1	1	<0.2	20.2	<0.05	<0.05	0.08	<0.005	<0.02
442275		130	0.8	2.2	<0.002	0.19	0.32	0.1	1	<0.2	34.5	<0.05	<0.05	0.09	<0.005	<0.02
442276		80	<0.5	1.0	<0.002	0.01	0.16	1.0	1	<0.2	86.8	<0.05	<0.05	0.09	0.022	<0.02
442277		130	<0.5	1.0	<0.002	0.19	0.16	0.1	<1	<0.2	17.3	<0.05	<0.05	0.05	<0.005	<0.02
442278		270	8.0	219	0.003	1.68	1.13	12.7	1	1.4	53.1	0.94	0.07	8.18	0.266	2.84
442279		320	19.2	217	0.010	2.90	2.93	15.2	2	1.6	29.9	1.29	0.06	10.60	0.355	2.72
442280		640	8.5	193.0	0.005	1.42	1.63	12.3	2	1.5	28.5	0.73	0.07	10.90	0.272	1.89



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 19-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18158278**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U	V	W	Y	Zn	Zr	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	0.01	0.01
442261		0.1	8	0.3	8.7	2	2.2	73.6	92.7
442262		0.1	7	0.2	6.1	2	2.0		94.8
442263		0.1	9	0.2	7.0	3	2.6		
442264		0.1	9	0.2	7.6	3	2.1		
442265		0.1	8	0.2	8.0	3	2.6		
442266		0.1	9	0.2	8.9	5	2.3		
442267		0.1	11	0.2	6.9	22	3.8		
442268		0.1	8	0.3	6.1	15	3.4		
442269		1.2	143	2.1	19.7	125	144.5		
442270		<0.1	12	0.1	8.2	18	3.8		
442271		<0.1	16	0.1	7.5	25	2.9		
442272		0.1	13	0.1	8.3	25	3.2		
442273		0.1	9	0.2	5.5	15	2.5		
442274		0.1	8	0.2	6.3	6	2.0		
442275		<0.1	8	0.2	7.2	10	3.1		
442276		0.2	6	0.1	3.1	6	3.2		
442277		<0.1	5	0.2	4.4	9	1.2		
442278		4.1	176	1.0	7.1	105	73.7		
442279		7.3	247	2.2	8.9	140	96.0		
442280		3.0	132	1.8	7.6	174	76.9		



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **19-JUIL-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18158278**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 21-JUIL-2018  
Compte: MINVIR

## CERTIFICAT VO18159171

Projet: Kan

Bon de commande #: KANDH18-016

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 3-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

SIMON HOULE  
LIZ STOCK

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 21-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18159171**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
407801		2.42	<0.001	<0.01	0.13	1.5	10	0.33	0.01	1.40	0.03	6.95	4.0	8	1.82	1.2
407802		2.50	0.516	0.04	0.08	0.4	10	0.20	0.01	2.07	0.04	5.86	2.8	6	1.43	3.0
407803		2.96	1.070	0.03	0.14	0.9	10	0.22	0.02	1.38	0.07	4.09	4.4	5	3.99	6.3
407804		2.31	0.022	0.02	0.16	3.2	10	0.24	0.01	1.13	0.08	8.70	6.8	8	4.15	2.2
407805		2.86	0.464	0.03	0.19	1.6	10	0.29	0.01	1.46	0.09	7.55	4.5	3	5.79	4.0
407806		2.81	0.008	0.02	0.09	1.5	10	0.23	0.01	1.32	0.03	7.24	4.2	7	2.78	0.9
407807		2.55	1.535	0.10	0.25	6.2	10	0.32	0.03	1.66	0.07	8.36	7.3	6	5.30	8.9
407808		2.38	0.116	0.01	0.12	7.9	10	0.30	0.01	1.27	0.03	6.82	7.3	5	2.95	2.0
407809		0.07	0.658	0.20	7.32	22.1	350	1.49	0.14	4.52	0.19	53.1	44.5	185	1.94	55.8
407810		2.52	1.520	0.05	0.13	1.2	10	0.57	0.06	1.60	0.06	6.65	5.2	1	4.21	6.0
407811		2.25	0.018	0.01	0.03	0.3	<10	0.24	0.01	1.45	0.05	7.40	3.5	3	0.84	1.5
407812		2.42	2.32	4.21	0.19	0.6	10	0.22	0.03	2.32	0.15	4.94	5.2	2	6.08	15.3
407813		2.85	0.498	0.03	0.09	0.4	10	0.32	0.01	1.70	0.12	4.88	3.7	1	2.82	3.8
407814		2.49	0.327	0.01	0.20	0.3	10	0.22	0.01	2.06	0.13	4.17	3.2	3	6.73	5.8
407815		2.70	0.781	0.02	0.15	26.3	10	0.31	0.03	1.24	0.07	5.78	3.8	6	3.63	5.3
407816		0.23	0.002	0.01	0.06	0.9	600	0.09	0.01	18.70	0.04	1.59	0.5	1	0.42	1.8
407817		2.84	0.001	0.01	0.69	2.8	<10	0.48	0.02	1.18	0.02	13.30	7.7	22	0.67	7.5
407818		2.57	<0.001	0.03	0.96	29.3	10	0.75	0.03	1.54	0.14	22.0	8.2	20	2.94	8.5
407819		2.65	0.002	0.09	2.84	19.3	110	2.65	0.05	1.00	0.17	30.2	10.7	47	9.16	15.7
407820		2.93	0.024	0.15	1.18	18.5	<10	0.42	0.05	1.76	0.17	22.1	10.0	25	0.21	9.8



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 21-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18159171**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
407801		24.3	0.53	<0.05	0.1	<0.005	<0.005	0.03	4.2	0.4	3.42	8570	0.14	0.01	1.4	2.4
407802		24.1	0.37	<0.05	0.1	0.041	<0.005	0.03	3.4	0.3	3.53	5780	0.28	0.01	0.7	1.7
407803		25.7	0.60	<0.05	0.1	<0.005	0.006	0.06	2.5	0.3	3.75	6410	0.09	0.03	1.1	1.7
407804		29.6	0.65	<0.05	0.1	<0.005	0.006	0.06	5.5	0.3	4.20	7870	0.15	0.03	1.4	3.0
407805		28.3	0.70	<0.05	0.1	<0.005	0.005	0.08	5.4	0.3	4.25	7570	0.07	0.04	1.4	1.3
407806		30.1	0.39	<0.05	<0.1	<0.005	<0.005	0.04	5.0	0.2	4.33	7330	0.09	0.02	1.4	1.2
407807		26.1	1.01	<0.05	0.1	0.032	<0.005	0.08	5.2	0.5	3.91	7360	0.10	0.03	2.3	3.5
407808		25.1	0.56	<0.05	0.1	0.007	0.005	0.04	4.7	0.3	3.60	8370	0.12	0.02	1.3	3.0
407809		7.44	19.70	0.06	3.8	0.020	0.070	0.90	23.5	11.8	2.96	970	1.84	1.75	21.0	143.0
407810		30.9	0.55	<0.05	<0.1	0.006	<0.005	0.06	4.8	0.3	4.24	8570	0.07	0.03	0.8	1.6
407811		25.7	0.21	<0.05	<0.1	<0.005	<0.005	0.01	4.9	0.3	3.88	6690	0.09	0.01	0.7	1.2
407812		29.0	0.62	<0.05	<0.1	0.035	0.006	0.09	3.3	0.3	4.24	7620	0.06	0.04	0.3	2.1
407813		32.2	0.35	<0.05	<0.1	0.011	0.005	0.04	3.4	0.3	4.93	7290	0.05	0.02	0.5	0.9
407814		27.6	0.67	<0.05	<0.1	0.005	0.006	0.09	2.8	0.4	4.28	6300	0.06	0.04	0.4	0.9
407815		23.6	0.57	<0.05	0.1	0.007	0.005	0.05	3.7	0.3	3.39	7070	0.12	0.02	0.8	2.5
407816		0.21	0.24	0.08	0.1	<0.005	<0.005	0.04	0.9	10.1	12.30	319	0.06	0.04	0.2	0.6
407817		20.8	2.48	<0.05	0.5	<0.005	0.013	0.01	6.7	1.3	2.46	12650	0.33	0.01	4.6	10.0
407818		25.7	2.61	<0.05	0.8	<0.005	0.020	0.19	10.6	5.1	2.90	16850	1.01	<0.01	6.9	11.2
407819		17.70	9.03	0.05	1.0	<0.005	0.030	1.29	15.5	16.2	2.30	7850	1.34	0.01	7.7	22.9
407820		24.2	4.48	<0.05	0.7	<0.005	0.021	0.02	10.9	6.0	3.16	14250	0.72	<0.01	6.1	11.9



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 21-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18159171**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
407801		230	0.7	1.3	<0.002	0.06	0.11	0.3	<1	<0.2	24.6	0.06	<0.05	0.18	0.013	<0.02
407802		190	0.9	1.0	<0.002	0.23	0.09	0.2	<1	<0.2	36.5	<0.05	<0.05	0.16	0.006	<0.02
407803		100	0.8	2.6	<0.002	0.48	0.11	0.2	<1	<0.2	26.9	0.05	<0.05	0.14	0.011	<0.02
407804		280	0.6	2.7	<0.002	0.15	0.10	0.3	<1	<0.2	21.5	0.05	<0.05	0.18	0.010	<0.02
407805		250	0.9	3.6	<0.002	0.28	0.07	0.2	<1	<0.2	33.7	<0.05	<0.05	0.13	0.007	<0.02
407806		200	0.6	1.8	<0.002	0.05	0.09	0.2	<1	<0.2	24.2	<0.05	<0.05	0.10	0.006	<0.02
407807		200	1.5	3.7	<0.002	0.69	0.11	0.3	1	<0.2	39.6	0.08	0.11	0.30	0.017	0.02
407808		270	0.7	1.9	<0.002	0.14	0.11	0.3	<1	<0.2	22.4	0.05	<0.05	0.15	0.010	<0.02
407809		1170	14.7	42.1	<0.002	0.02	1.03	21.4	<1	1.7	353	1.17	0.06	4.98	0.917	0.19
407810		320	1.2	2.8	<0.002	0.56	0.07	0.1	1	<0.2	34.0	<0.05	0.19	0.09	<0.005	<0.02
407811		70	0.6	0.6	<0.002	0.09	0.05	0.1	<1	<0.2	25.7	<0.05	<0.05	0.06	<0.005	<0.02
407812		80	1.5	4.0	<0.002	1.15	0.08	0.2	1	<0.2	60.9	<0.05	0.06	0.08	<0.005	<0.02
407813		170	0.9	1.9	<0.002	0.28	0.07	0.1	1	<0.2	36.9	<0.05	<0.05	0.05	<0.005	<0.02
407814		170	1.2	4.3	<0.002	0.43	0.08	0.2	1	<0.2	50.6	<0.05	<0.05	0.04	<0.005	<0.02
407815		180	0.8	2.5	<0.002	0.40	0.16	0.2	<1	<0.2	25.3	0.05	<0.05	0.11	0.007	<0.02
407816		40	2.4	1.0	<0.002	0.02	0.13	0.1	1	<0.2	153.5	<0.05	<0.05	0.12	0.006	0.06
407817		360	1.1	0.6	<0.002	0.18	0.16	1.9	<1	<0.2	19.8	0.29	<0.05	0.77	0.083	<0.02
407818		600	1.6	18.6	<0.002	0.25	0.20	2.5	<1	0.4	39.6	0.45	0.05	1.32	0.114	0.44
407819		380	4.8	85.5	0.004	1.13	0.45	5.4	1	0.6	32.4	0.46	0.05	3.11	0.150	1.39
407820		570	2.0	1.1	<0.002	0.60	0.24	2.9	1	<0.2	43.7	0.37	0.06	1.34	0.108	0.03



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 21-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18159171**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
407801		0.1	11	0.1	4.3	10	5.1
407802		0.1	8	0.2	4.1	10	3.7
407803		0.1	8	0.2	3.4	23	3.5
407804		0.1	11	0.2	5.1	24	5.0
407805		0.1	11	0.3	4.5	24	3.3
407806		0.1	10	0.2	4.1	9	2.8
407807		0.2	12	0.5	4.8	21	6.6
407808		0.2	9	0.3	4.5	11	4.2
407809		1.1	148	1.9	21.0	137	151.5
407810		0.1	8	0.2	5.4	13	3.2
407811		0.1	7	0.3	4.1	12	2.1
407812		0.1	7	0.2	4.7	29	2.3
407813		<0.1	6	0.2	4.8	28	2.2
407814		<0.1	8	0.1	4.8	28	3.0
407815		0.1	9	0.3	3.9	15	4.0
407816		0.2	2	0.2	0.7	12	2.1
407817		0.5	46	0.3	5.9	12	22.2
407818		0.6	61	0.6	6.5	23	35.1
407819		2.0	101	0.8	5.5	68	40.8
407820		0.9	63	0.3	6.4	45	31.6



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **21-JUIL-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18159171**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 27-JUIL-2018  
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## CERTIFICAT VO18159173

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Bon de commande #: KANDH18-015

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 3-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18159173**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
407781		4.60	0.011	0.38	9.61	25.4	230	1.68	0.17	1.16	1.46	95.4	17.6	113	4.56	108.0
407782		4.87	0.018	0.40	8.88	42.7	220	1.38	0.24	1.16	2.29	59.1	23.1	104	3.84	81.9
407783		3.59	0.024	0.39	8.93	45.5	250	1.64	0.19	0.39	1.35	45.6	24.1	104	4.00	130.5
407784		3.12	0.034	0.54	8.84	51.0	280	1.92	0.24	0.33	0.97	48.0	23.3	106	4.18	111.0
407785		3.40	0.169	1.55	4.11	196.0	90	1.31	0.78	0.37	5.69	40.6	45.7	81	1.84	104.5
407786		4.24	0.125	1.23	4.29	158.0	80	1.52	0.57	0.29	2.76	42.2	68.0	84	1.77	157.0
407787		3.66	0.002	0.17	0.33	1.5	10	0.27	0.01	6.69	0.11	10.45	3.2	12	0.08	108.5
407788		2.26	<0.001	0.03	0.06	22.5	<10	0.16	0.01	1.97	0.02	4.67	1.4	11	<0.05	6.6
407789		0.06	7.73	1.29	6.08	35.3	310	0.87	0.47	2.99	0.09	30.2	41.9	326	0.67	114.5
407790		2.48	0.002	0.19	0.24	204	<10	0.18	0.02	6.66	0.05	9.72	4.0	13	<0.05	80.7
407791		2.64	0.001	0.08	0.12	210	<10	0.23	0.01	4.41	0.05	6.74	1.9	6	<0.05	18.1
407792		2.53	0.004	0.12	0.17	20.8	10	0.31	0.04	4.09	0.05	9.27	3.3	6	0.13	62.1
407793		2.81	0.002	0.05	0.16	10.3	10	0.31	0.03	1.87	0.06	11.05	3.3	5	1.23	14.2
407794		2.53	0.003	0.02	0.13	8.3	<10	0.43	0.02	1.63	0.03	9.71	3.8	6	1.34	6.5
407795		2.57	0.007	0.01	0.23	7.2	10	0.49	0.02	1.59	0.02	11.65	3.5	9	2.61	2.2
407796		0.30	<0.001	0.01	0.06	3.5	110	<0.05	0.01	19.10	0.05	1.70	0.5	1	0.49	2.0
407797		2.75	0.011	0.01	0.21	8.6	10	0.44	0.02	3.24	0.03	10.40	4.2	7	2.48	2.4
407798		1.73	0.239	0.02	0.16	11.3	10	0.27	0.02	3.10	0.05	11.60	5.7	6	3.06	2.9
407799		3.69	0.078	0.01	0.09	1.6	<10	0.19	0.01	2.01	0.07	5.09	2.9	5	1.33	5.1
407800		2.55	0.033	<0.01	0.06	0.7	<10	0.23	0.01	1.35	0.06	4.50	3.1	6	1.19	2.0



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Page: 2 – B  
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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
407781		7.30	28.0	0.17	9.8	0.057	0.131	4.45	48.6	23.4	1.02	245	10.30	0.24	38.6	97.9
407782		7.71	22.0	0.15	4.5	0.115	0.156	4.00	32.4	18.1	0.85	253	10.50	0.24	15.6	123.0
407783		10.65	22.1	0.14	3.7	0.089	0.109	3.96	24.4	19.9	0.65	153	9.19	0.24	9.0	105.0
407784		10.75	22.6	0.14	3.8	0.147	0.117	4.23	25.6	23.0	0.65	218	10.50	0.19	12.0	91.3
407785		22.1	13.05	0.16	1.7	0.705	0.258	1.74	21.7	17.4	0.58	405	18.55	0.08	6.8	101.5
407786		24.0	14.00	0.18	1.9	0.336	0.156	1.67	22.4	19.1	0.72	486	13.10	0.08	5.7	92.7
407787		14.20	2.40	0.07	0.2	0.010	0.021	0.06	6.1	4.3	3.70	4130	2.78	0.02	1.6	25.4
407788		10.15	0.49	<0.05	<0.1	0.009	<0.005	0.01	2.8	1.2	1.75	2970	0.27	0.01	0.5	3.4
407789		5.52	15.10	0.07	2.4	0.159	0.046	1.04	15.1	13.2	4.01	737	5.86	1.18	16.6	249
407790		13.65	2.82	0.05	0.2	0.007	0.016	0.02	5.7	4.3	3.82	4530	0.49	0.03	1.9	19.9
407791		18.40	1.28	0.06	0.1	0.007	0.007	<0.01	4.0	2.8	4.07	4860	0.14	<0.01	0.4	4.2
407792		21.7	1.23	0.07	0.1	<0.005	<0.005	0.02	5.4	2.8	3.43	4720	0.70	<0.01	1.3	19.3
407793		23.3	1.11	0.09	0.2	<0.005	0.005	0.03	6.4	0.6	3.05	6280	1.41	0.01	2.0	13.4
407794		23.9	0.61	0.08	0.1	<0.005	<0.005	0.02	5.6	0.4	3.10	6850	0.58	0.01	1.0	4.2
407795		22.8	0.99	0.08	0.1	<0.005	0.006	0.04	7.6	0.4	2.91	8270	0.43	0.02	1.6	2.8
407796		0.18	0.28	0.25	<0.1	<0.005	<0.005	0.03	0.9	7.1	12.80	341	0.16	0.02	0.2	0.9
407797		22.4	0.89	0.07	0.1	<0.005	0.006	0.04	6.5	0.5	3.42	8100	0.36	0.02	1.6	3.1
407798		23.2	0.75	0.07	0.1	0.005	0.005	0.04	6.8	0.3	3.49	9220	0.27	0.02	1.5	3.8
407799		21.5	0.38	0.07	<0.1	<0.005	<0.005	0.02	3.2	0.4	3.31	6090	0.08	0.01	0.4	1.0
407800		23.7	0.30	0.07	0.1	0.006	<0.005	0.02	2.7	0.2	3.46	7360	0.09	0.01	0.5	1.2





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18159173**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
407781		390	14.7	89.2	0.013	4.51	4.15	19.9	3	3.7	54.2	2.48	0.21	9.30	0.401	4.43
407782		460	26.1	84.0	0.014	5.79	6.41	25.5	2	2.3	53.9	0.93	0.35	4.56	0.420	4.12
407783		240	26.9	83.7	0.009	7.97	6.43	19.8	3	2.1	42.6	0.56	0.38	4.03	0.326	4.26
407784		250	35.8	89.5	0.014	8.41	8.42	17.1	3	2.7	31.5	0.67	0.68	4.33	0.359	4.53
407785		210	103.5	47.2	0.019	>10.0	19.55	8.2	9	5.0	22.1	0.45	3.18	3.67	0.142	2.82
407786		270	77.0	44.8	0.015	>10.0	14.90	8.4	9	4.4	19.9	0.36	2.90	3.68	0.130	2.39
407787		140	3.7	1.5	0.003	3.25	0.47	0.8	2	<0.2	94.0	0.10	0.18	0.42	0.015	<0.02
407788		120	1.3	0.2	<0.002	0.48	0.24	0.2	1	<0.2	21.6	<0.05	<0.05	0.08	<0.005	<0.02
407789		1070	9.4	38.5	<0.002	0.09	0.77	20.7	1	1.0	278	0.95	0.26	2.36	0.680	0.12
407790		150	4.2	0.5	<0.002	3.26	0.68	0.6	1	<0.2	67.0	0.09	0.32	0.29	0.008	<0.02
407791		180	1.6	0.2	<0.002	1.13	0.35	0.2	<1	<0.2	39.8	<0.05	0.15	0.11	<0.005	<0.02
407792		150	2.4	0.8	<0.002	2.17	0.18	0.4	1	<0.2	49.2	0.06	0.07	0.24	0.006	<0.02
407793		260	8.4	1.2	0.002	0.53	0.17	0.3	1	<0.2	30.0	0.12	<0.05	0.26	0.008	0.02
407794		290	2.1	1.0	<0.002	0.54	0.10	0.3	1	<0.2	25.8	0.05	<0.05	0.15	0.008	<0.02
407795		360	1.1	1.8	<0.002	0.18	0.15	0.6	1	<0.2	24.8	0.07	<0.05	0.24	0.015	<0.02
407796		30	2.9	1.2	<0.002	0.01	0.09	0.1	1	<0.2	175.0	<0.05	<0.05	0.09	<0.005	0.07
407797		200	1.4	1.6	<0.002	0.22	0.13	0.5	1	<0.2	43.9	0.07	<0.05	0.27	0.014	<0.02
407798		490	1.0	1.9	<0.002	0.22	0.12	0.5	1	<0.2	50.6	0.07	<0.05	0.28	0.020	<0.02
407799		140	0.9	1.1	<0.002	0.28	0.06	0.1	1	<0.2	39.8	<0.05	<0.05	0.08	<0.005	0.02
407800		130	0.6	0.8	<0.002	0.13	0.07	0.1	<1	<0.2	26.2	<0.05	<0.05	0.08	<0.005	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 27-JUIL-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18159173**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
407781	0.1	12.1	166	1.4	18.6	427	369
407782	0.1	16.3	180	1.3	12.6	715	179.5
407783	0.1	12.0	166	1.3	9.3	390	142.0
407784	0.1	11.5	170	1.7	9.9	291	143.0
407785	0.1	6.6	104	1.0	6.7	1740	70.5
407786	0.1	6.0	108	1.0	7.3	908	75.4
407787	0.1	0.9	24	0.1	4.1	57	10.3
407788	0.1	0.1	7	0.1	2.2	12	2.0
407789	0.1	0.6	142	8.9	14.6	84	98.0
407790	0.1	0.4	26	0.1	4.2	24	7.5
407791	0.1	0.2	12	0.1	4.2	18	3.4
407792	0.1	0.3	20	0.1	4.4	9	5.5
407793	0.1	0.2	15	0.2	5.1	20	7.0
407794	0.1	0.2	16	0.1	5.1	9	3.4
407795	0.1	0.3	24	0.1	7.2	7	6.3
407796	0.1	0.2	2	0.2	0.8	12	1.1
407797	0.1	0.3	21	0.2	5.6	8	6.1
407798	0.1	0.3	13	0.2	5.4	14	6.1
407799	0.1	<0.1	5	0.1	3.5	16	2.4
407800	0.1	0.1	5	0.1	3.6	15	3.7



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **27-JUIL-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18159173**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
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**CERTIFICAT VO18159190**

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 Bon de commande #: KANDH18-003  
 Ce rapport s'applique aux 19 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 3-JUIL-2018.  
 Les résultats sont transmis à:

GLENN ASCH AUDREY ROUSSEL-LALIER CORPORATIF WEBTRIEVE	SIMON HEBERT LEE SCHOLL	SIMON HOULE LIZ STOCK
---	----------------------------	--------------------------

PRÉPARATION ÉCHANTILLONS	
CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

PROCÉDURES ANALYTIQUES		
CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18159190**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
458242		4.01	0.012	0.54	7.59	43.4	170	1.12	0.21	2.35	3.15	81.2	22.8	102	3.96	304
458243		3.24	0.028	1.09	7.64	103.0	160	1.52	0.20	1.07	5.75	66.1	24.1	78	6.34	251
458244		2.99	0.034	1.42	6.82	125.5	120	1.26	0.27	2.49	5.68	62.8	20.1	74	5.52	190.5
458245		3.88	0.021	1.06	9.11	53.0	240	1.54	0.26	1.38	2.65	71.0	22.9	96	5.96	213
458246		4.24	0.011	0.80	9.54	36.0	220	1.44	0.25	1.09	2.79	80.7	23.1	105	5.51	134.5
458247		4.22	0.012	0.61	8.88	37.7	210	1.42	0.21	0.62	2.36	73.7	28.3	112	4.87	116.0
458248		4.47	0.035	1.08	7.49	76.8	110	1.16	0.22	0.82	2.69	56.4	24.3	106	3.40	152.5
458249		0.06	7.74	1.27	5.90	33.9	300	0.90	0.49	2.85	0.05	29.9	40.6	312	0.63	107.5
458250		4.03	0.037	1.02	6.70	92.7	80	1.09	0.19	1.01	2.86	57.3	22.8	80	3.16	174.5
458251		4.32	0.023	0.42	8.71	53.8	230	1.45	0.15	1.18	2.60	72.8	26.5	105	3.95	97.0
458252		4.79	0.083	1.09	6.68	131.5	80	1.23	0.34	0.42	2.62	51.3	29.7	87	3.12	150.0
458253		5.65	0.069	0.86	7.54	88.7	120	1.55	0.23	0.69	3.32	56.0	29.4	112	3.49	177.5
458254		4.88	0.122	1.22	5.35	119.0	60	1.47	0.37	0.89	3.34	70.9	32.2	68	2.47	173.0
458255		2.65	0.024	0.84	2.98	11.6	90	0.90	0.27	2.82	2.79	35.9	20.2	50	1.08	269
458256		0.22	0.001	0.01	0.06	<0.2	20	<0.05	0.01	34.3	0.02	1.15	0.5	2	<0.05	1.8
458257		2.70	0.027	1.22	2.76	12.1	100	1.12	0.58	2.01	1.76	32.7	33.7	51	1.04	332
458258		1.84	0.019	1.02	3.82	9.3	40	2.02	0.55	1.22	3.53	80.6	121.5	43	1.45	246
458259		0.06	0.681	0.21	7.39	20.7	330	1.51	0.14	4.52	0.21	52.3	45.5	186	1.96	57.5
458260		1.78	0.003	0.09	0.31	1.8	<10	0.21	0.03	9.01	0.09	14.20	3.6	8	<0.05	16.4



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18159190**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
458242		10.95	21.3	0.21	4.1	0.293	0.130	3.14	46.5	19.7	1.44	358	12.85	0.27	15.4	178.0
458243		10.30	22.5	0.21	4.1	0.445	0.074	3.40	39.2	19.4	0.82	261	21.1	0.22	15.0	157.0
458244		11.80	19.60	0.18	2.9	0.461	0.092	3.05	37.5	17.0	1.39	425	21.0	0.21	10.3	142.0
458245		10.55	26.6	0.18	4.4	0.238	0.110	4.04	40.1	21.6	1.00	232	11.75	0.29	10.6	126.0
458246		9.02	28.6	0.19	5.3	0.189	0.134	4.21	45.6	23.4	0.97	194	11.20	0.27	15.6	104.0
458247		9.11	26.7	0.18	5.7	0.170	0.127	4.06	41.1	20.4	0.70	123	10.45	0.21	17.0	109.5
458248		12.95	19.35	0.21	3.8	0.307	0.148	3.36	30.9	19.6	0.76	192	13.65	0.16	10.5	171.5
458249		5.37	14.80	0.11	2.3	0.167	0.046	1.01	14.3	14.7	3.84	715	6.17	1.15	15.7	241
458250		14.55	18.25	0.27	4.1	0.303	0.131	2.93	31.5	18.6	0.79	230	15.05	0.14	12.3	174.0
458251		7.97	22.4	0.22	4.9	0.252	0.157	3.93	40.7	21.1	0.97	259	11.85	0.18	16.8	120.5
458252		15.50	19.40	0.23	4.1	0.407	0.158	3.10	25.9	19.9	0.60	156	16.70	0.13	11.6	160.0
458253		15.00	20.5	0.26	3.7	0.370	0.186	3.49	29.9	25.4	0.82	265	14.15	0.13	9.0	163.0
458254		19.95	17.55	0.26	4.3	0.419	0.137	2.36	36.8	24.4	0.95	417	18.50	0.09	14.0	148.0
458255		23.4	9.51	0.22	1.3	0.154	0.084	0.98	19.9	24.6	2.18	2330	10.20	0.04	3.6	130.0
458256		0.22	0.24	0.08	<0.1	<0.005	0.008	0.01	1.3	0.9	1.93	166	0.12	0.03	0.2	0.4
458257		29.8	9.29	0.23	1.5	0.110	0.064	1.04	18.1	19.7	1.40	1740	11.55	0.04	2.3	179.5
458258		24.8	13.10	0.25	3.6	0.158	0.093	1.67	42.1	17.9	0.85	461	20.2	0.06	12.4	136.5
458259		7.45	19.70	0.14	3.7	0.024	0.062	0.88	23.6	14.4	2.96	945	1.95	1.73	20.5	147.5
458260		15.80	1.93	0.12	0.2	0.012	0.010	0.02	8.1	8.2	4.19	5080	1.66	0.01	2.3	6.4



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18159190**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
458242		530	25.4	69.7	0.014	7.48	4.37	23.7	9	1.8	60.2	0.94	0.29	6.94	0.291	3.99
458243		300	37.8	88.8	0.026	9.28	8.88	14.8	14	2.2	41.5	1.11	0.32	6.58	0.252	7.02
458244		250	43.1	76.7	0.028	>10.0	11.10	14.5	10	1.7	58.3	0.63	0.48	5.46	0.213	6.11
458245		250	29.4	85.7	0.015	7.82	6.73	22.7	4	2.1	64.4	0.70	0.43	5.94	0.287	6.25
458246		310	21.5	90.3	0.015	5.98	5.33	24.2	2	2.5	59.8	1.11	0.29	7.11	0.361	5.75
458247		310	19.5	89.8	0.013	6.12	4.70	20.6	2	2.7	38.3	1.13	0.22	7.08	0.331	5.25
458248		440	44.2	75.2	0.022	>10.0	10.90	18.9	3	2.2	38.3	0.64	0.36	4.66	0.278	3.96
458249		1050	9.6	36.7	0.002	0.08	0.81	19.6	1	1.0	268	0.92	0.22	2.30	0.641	0.19
458250		320	41.8	68.3	0.019	>10.0	10.55	15.8	5	2.1	38.2	0.80	0.36	4.88	0.217	3.68
458251		480	24.9	89.8	0.015	6.16	6.46	24.1	2	2.6	37.7	0.98	0.26	5.96	0.363	4.27
458252		350	62.9	68.5	0.023	>10.0	16.50	14.3	5	3.0	28.2	0.76	0.90	4.94	0.218	4.04
458253		450	53.8	82.9	0.018	>10.0	13.70	18.7	4	3.3	36.3	0.51	0.86	4.63	0.254	4.08
458254		220	77.9	58.4	0.030	>10.0	19.10	10.0	6	3.6	32.2	0.92	1.78	6.57	0.144	3.37
458255		360	32.5	25.6	0.008	>10.0	9.24	7.1	7	1.8	90.5	0.20	1.01	2.42	0.075	1.04
458256		60	0.7	0.3	<0.002	0.04	0.14	0.2	<1	<0.2	79.2	<0.05	<0.05	0.07	0.005	<0.02
458257		240	45.8	29.0	0.011	>10.0	10.25	7.7	10	1.7	50.9	0.13	2.50	2.35	0.054	1.03
458258		740	38.2	48.1	0.028	>10.0	8.05	9.2	12	3.3	32.2	0.66	1.93	5.26	0.128	1.59
458259		1160	14.6	42.9	<0.002	0.03	1.04	20.8	<1	1.7	356	1.18	<0.05	5.09	0.909	0.20
458260		200	2.4	0.5	0.002	1.26	0.30	0.9	1	<0.2	117.0	0.09	0.09	0.32	0.013	0.02



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18159190**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U	V	W	Y	Zn	Zr	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	0.01	0.01
458242		11.8	184	1.1	14.9	683	161.5	85.5	95.9
458243		14.4	277	1.8	15.3	763	150.0		92.2
458244		15.0	262	1.7	11.9	907	111.0		
458245		13.5	186	1.5	13.0	518	160.5		
458246		13.4	181	1.2	14.8	656	194.5		
458247		12.5	156	1.1	15.9	586	209		
458248		17.9	189	0.9	13.0	835	150.5		
458249		0.6	138	8.5	13.9	81	95.7		
458250		14.9	187	0.8	13.3	823	162.5		
458251		13.9	172	1.1	14.5	846	195.5		
458252		15.8	196	1.0	12.0	821	161.5	71.8	
458253		15.4	192	1.3	12.9	938	147.0		
458254		11.3	174	1.2	13.2	813	170.5		
458255		4.0	84	0.6	7.7	594	54.7		
458256		0.1	1	<0.1	2.3	5	1.6		
458257		4.4	82	0.7	6.2	324	65.1		
458258		11.8	150	1.5	11.9	601	160.5		
458259		1.2	148	1.8	21.0	132	150.0		
458260		0.8	24	0.1	6.2	31	9.5		





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **20-JUIL-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18159190**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 15%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 21-JUIL-2018  
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## CERTIFICAT VO18159198

Projet: Kan

Bon de commande #: KANDH18-017

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 3-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

SIMON HOULE  
LIZ STOCK

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 21-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18159198**

Description échantillon	Méthode	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	élément	Poids reçu	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	unités	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LDI	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
407821		1.96	0.012	0.17	6.64	18.2	260	3.46	0.17	0.09	0.06	55.4	22.2	93	2.55	32.5
407822		2.48	0.010	0.18	7.15	23.1	280	3.24	0.17	0.27	0.11	72.8	23.3	100	3.15	42.5
407823		4.05	0.133	2.25	4.78	180.0	50	1.14	0.61	2.16	9.45	47.1	27.7	70	3.27	143.0
407824		4.57	0.075	1.47	4.20	137.5	50	1.28	0.66	2.70	15.05	43.6	35.6	86	3.01	195.5
407825		2.14	0.007	0.21	1.15	7.7	40	0.26	0.01	0.38	10.85	10.30	8.4	27	0.69	177.5
407826		4.31	0.025	0.89	6.00	24.4	100	1.79	0.29	1.48	5.73	56.2	17.5	75	3.54	323
407827		4.55	0.012	1.16	4.35	12.5	70	1.97	0.25	0.87	2.91	47.7	9.4	85	1.92	368
407828		4.44	0.040	1.06	3.97	81.5	40	2.05	0.54	0.56	4.48	48.4	56.3	76	1.80	250
407829		0.06	2.53	0.45	6.99	12.8	330	1.56	0.18	4.97	0.10	48.8	53.1	330	0.71	85.0
407830		5.18	0.071	1.55	5.01	132.5	50	2.41	0.83	0.16	4.23	35.0	58.3	103	2.55	167.0
407831		5.12	0.057	1.41	4.29	127.5	30	1.62	0.51	0.91	4.31	51.9	37.5	72	1.92	197.0
407832		4.63	0.047	1.20	5.30	144.0	50	1.48	0.28	1.95	1.85	103.0	21.8	46	2.56	122.5
407833		4.79	0.037	1.05	5.77	113.5	70	1.73	0.25	1.02	2.07	76.4	22.6	76	2.78	163.5
407834		4.45	0.009	0.38	9.05	53.0	280	1.74	0.17	0.53	3.04	70.4	24.5	121	3.68	87.4
407835		2.40	0.016	0.35	9.01	47.0	240	1.64	0.25	0.25	2.11	92.7	24.7	122	3.95	72.4
407836		0.28	<0.001	0.01	0.09	1.3	140	0.11	0.04	18.35	0.06	1.72	0.5	1	0.39	3.0
407837		2.87	0.008	0.45	9.00	48.1	240	1.80	0.27	0.84	1.44	75.5	28.8	94	4.40	132.0
407838		2.18	0.001	0.15	5.05	14.7	140	1.05	0.05	3.78	2.46	71.2	10.8	64	2.26	111.5
407839		3.95	0.010	0.31	9.93	58.0	310	1.91	0.21	0.22	2.90	74.4	27.3	140	4.17	52.7
407840		4.69	0.018	0.55	9.73	80.2	350	1.87	0.22	0.17	2.62	60.5	27.8	173	4.16	94.6



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 21-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18159198**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
407821		10.95	19.95	0.07	2.1	<0.005	0.060	2.62	26.0	41.0	1.39	543	1.51	0.05	16.5	58.3
407822		10.15	20.9	0.09	2.5	<0.005	0.064	3.22	35.9	43.3	1.32	538	1.97	0.06	20.9	62.7
407823		16.45	12.05	0.13	1.8	0.714	0.187	2.18	28.9	10.9	1.11	659	89.1	0.12	4.3	161.5
407824		16.70	11.45	0.11	1.6	0.736	0.212	1.87	26.8	14.9	1.38	871	99.7	0.10	4.1	148.5
407825		9.60	3.13	0.05	0.4	0.370	0.152	0.50	6.2	4.2	0.21	182	8.13	0.03	0.9	81.4
407826		17.60	16.70	0.13	2.5	0.155	0.138	2.71	32.7	21.5	0.91	563	43.6	0.13	4.2	135.0
407827		21.4	15.55	0.13	2.0	0.140	0.131	1.61	25.0	37.3	1.05	786	21.5	0.07	3.7	153.5
407828		20.1	13.95	0.13	1.9	0.457	0.203	1.60	25.2	34.4	0.78	601	19.30	0.06	4.3	106.0
407829		7.77	19.10	0.08	3.7	0.047	0.065	1.04	24.0	12.1	5.73	1080	3.33	2.06	31.0	367
407830		20.7	18.45	0.11	2.3	0.528	0.241	2.36	15.5	37.3	0.55	180	16.50	0.09	7.1	89.5
407831		21.1	14.30	0.12	2.3	0.693	0.248	1.82	28.1	31.5	0.95	811	16.55	0.07	7.1	107.5
407832		17.55	17.70	0.16	5.8	0.341	0.118	2.53	54.9	27.1	1.23	749	18.60	0.09	29.3	129.0
407833		16.40	18.60	0.13	5.6	0.304	0.137	2.90	37.3	29.5	0.83	397	17.25	0.11	21.1	164.0
407834		7.74	23.7	0.10	5.1	0.183	0.183	4.51	37.8	25.2	0.63	196	11.55	0.17	21.3	138.5
407835		7.35	24.0	0.15	5.2	0.186	0.147	4.36	47.9	21.6	0.51	73	11.80	0.16	32.1	104.5
407836		0.16	0.28	<0.05	0.1	<0.005	<0.005	0.05	0.9	18.8	12.85	270	0.16	0.03	0.4	0.7
407837		10.25	24.4	0.08	5.0	0.131	0.116	4.38	41.8	28.4	0.83	279	14.45	0.16	17.0	136.5
407838		8.37	12.95	0.08	2.7	0.143	0.117	2.43	37.4	15.1	1.89	1520	5.17	0.10	29.7	108.5
407839		6.57	26.4	0.10	5.9	0.227	0.174	4.94	40.9	25.2	0.52	61	13.50	0.20	23.1	122.0
407840		10.85	24.7	0.13	4.4	0.223	0.156	4.75	31.7	26.8	0.55	60	16.00	0.17	19.4	189.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18159198**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
407821		280	8.9	96.1	0.007	2.51	1.42	12.7	1	1.8	12.0	0.94	0.12	6.84	0.291	0.95
407822		320	11.9	125.0	0.008	2.77	1.96	14.2	2	1.6	26.3	1.23	0.07	8.90	0.379	1.22
407823		480	73.2	55.8	0.086	>10.0	17.70	9.1	11	1.4	47.8	0.26	1.70	4.00	0.102	3.49
407824		460	54.9	50.9	0.104	>10.0	13.40	10.9	12	1.5	56.7	0.24	1.55	4.36	0.101	3.20
407825		110	2.2	12.9	0.011	5.98	0.37	2.4	6	0.4	8.5	0.06	0.06	0.99	0.022	0.75
407826		510	20.3	66.5	0.052	>10.0	4.92	12.2	9	2.5	39.0	0.24	0.76	5.19	0.110	3.62
407827		340	18.6	43.6	0.014	>10.0	5.59	12.6	8	4.8	28.8	0.18	0.82	3.87	0.091	2.12
407828		340	35.7	41.9	0.016	>10.0	9.13	10.1	8	5.7	21.8	0.23	1.85	4.14	0.099	2.34
407829		1940	5.3	32.3	<0.002	0.05	0.36	22.7	1	1.4	496	1.77	0.09	3.27	1.080	0.09
407830		260	64.8	49.9	0.022	>10.0	16.75	10.9	8	8.0	18.5	0.40	2.85	3.61	0.156	3.56
407831		230	63.3	44.5	0.020	>10.0	17.20	8.6	7	4.6	38.2	0.46	1.71	4.89	0.118	3.34
407832		200	68.1	60.6	0.027	>10.0	20.6	7.7	5	3.6	57.7	1.77	1.16	9.01	0.159	3.93
407833		320	63.2	56.2	0.026	>10.0	19.40	12.0	4	3.0	40.6	1.59	0.82	6.52	0.210	4.12
407834		450	27.8	92.1	0.016	6.55	8.64	25.1	2	3.2	36.7	1.30	0.30	5.27	0.530	4.55
407835		660	25.4	91.4	0.015	6.20	7.50	23.2	2	2.8	30.6	1.76	0.27	7.69	0.530	4.25
407836		50	2.5	1.4	<0.002	0.04	0.24	0.3	1	<0.2	141.5	<0.05	<0.05	0.19	0.007	0.10
407837		410	29.0	94.7	0.011	7.73	8.44	20.3	3	2.9	40.8	0.98	0.30	6.25	0.423	4.50
407838		870	8.7	52.2	0.007	4.62	2.15	21.4	2	1.6	87.4	1.88	0.09	6.72	0.298	2.22
407839		480	30.4	101.0	0.013	6.04	9.37	26.8	2	3.4	33.3	1.50	0.31	5.76	0.618	5.07
407840		550	44.6	101.0	0.021	9.53	14.25	26.2	3	3.3	29.8	1.15	0.49	5.07	0.545	5.36



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 21-JUIL-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18159198**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
407821		5.3	221	2.1	6.6	118	79.2
407822		6.4	248	2.4	8.6	161	96.2
407823		40.2	824	2.4	13.1	2050	74.8
407824		41.5	879	2.7	12.5	3120	67.8
407825		4.6	123	2.0	2.2	2360	15.9
407826		22.4	394	1.8	8.9	1230	96.9
407827		5.5	142	1.2	6.6	734	84.1
407828		6.4	121	1.5	8.0	1280	78.7
407829		0.7	150	3.6	21.6	113	151.5
407830		9.1	130	1.4	5.9	1260	92.8
407831		8.4	126	0.8	8.0	1360	88.3
407832		12.3	159	1.1	15.5	595	220
407833		15.7	191	1.0	13.8	635	213
407834		18.6	196	1.4	14.4	935	200
407835		14.8	179	1.3	16.1	655	210
407836		0.3	3	0.4	0.6	20	2.7
407837		14.8	164	1.1	14.6	462	195.5
407838		8.2	97	1.4	9.7	763	106.5
407839		20.6	208	1.8	14.2	927	213
407840		23.6	224	1.8	13.8	807	174.5



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **21-JUIL-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18159198**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 21-JUIL-2018  
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## CERTIFICAT VO18159198

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Bon de commande #: KANDH18-017

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 3-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

SIMON HOULE  
LIZ STOCK

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 21-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18159198**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
407821		1.96	0.012	0.17	6.64	18.2	260	3.46	0.17	0.09	0.06	55.4	22.2	93	2.55	32.5
407822		2.48	0.010	0.18	7.15	23.1	280	3.24	0.17	0.27	0.11	72.8	23.3	100	3.15	42.5
407823		4.05	0.133	2.25	4.78	180.0	50	1.14	0.61	2.16	9.45	47.1	27.7	70	3.27	143.0
407824		4.57	0.075	1.47	4.20	137.5	50	1.28	0.66	2.70	15.05	43.6	35.6	86	3.01	195.5
407825		2.14	0.007	0.21	1.15	7.7	40	0.26	0.01	0.38	10.85	10.30	8.4	27	0.69	177.5
407826		4.31	0.025	0.89	6.00	24.4	100	1.79	0.29	1.48	5.73	56.2	17.5	75	3.54	323
407827		4.55	0.012	1.16	4.35	12.5	70	1.97	0.25	0.87	2.91	47.7	9.4	85	1.92	368
407828		4.44	0.040	1.06	3.97	81.5	40	2.05	0.54	0.56	4.48	48.4	56.3	76	1.80	250
407829		0.06	2.53	0.45	6.99	12.8	330	1.56	0.18	4.97	0.10	48.8	53.1	330	0.71	85.0
407830		5.18	0.071	1.55	5.01	132.5	50	2.41	0.83	0.16	4.23	35.0	58.3	103	2.55	167.0
407831		5.12	0.057	1.41	4.29	127.5	30	1.62	0.51	0.91	4.31	51.9	37.5	72	1.92	197.0
407832		4.63	0.047	1.20	5.30	144.0	50	1.48	0.28	1.95	1.85	103.0	21.8	46	2.56	122.5
407833		4.79	0.037	1.05	5.77	113.5	70	1.73	0.25	1.02	2.07	76.4	22.6	76	2.78	163.5
407834		4.45	0.009	0.38	9.05	53.0	280	1.74	0.17	0.53	3.04	70.4	24.5	121	3.68	87.4
407835		2.40	0.016	0.35	9.01	47.0	240	1.64	0.25	0.25	2.11	92.7	24.7	122	3.95	72.4
407836		0.28	<0.001	0.01	0.09	1.3	140	0.11	0.04	18.35	0.06	1.72	0.5	1	0.39	3.0
407837		2.87	0.008	0.45	9.00	48.1	240	1.80	0.27	0.84	1.44	75.5	28.8	94	4.40	132.0
407838		2.18	0.001	0.15	5.05	14.7	140	1.05	0.05	3.78	2.46	71.2	10.8	64	2.26	111.5
407839		3.95	0.010	0.31	9.93	58.0	310	1.91	0.21	0.22	2.90	74.4	27.3	140	4.17	52.7
407840		4.69	0.018	0.55	9.73	80.2	350	1.87	0.22	0.17	2.62	60.5	27.8	173	4.16	94.6



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 21-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18159198**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
407821		10.95	19.95	0.07	2.1	<0.005	0.060	2.62	26.0	41.0	1.39	543	1.51	0.05	16.5	58.3
407822		10.15	20.9	0.09	2.5	<0.005	0.064	3.22	35.9	43.3	1.32	538	1.97	0.06	20.9	62.7
407823		16.45	12.05	0.13	1.8	0.714	0.187	2.18	28.9	10.9	1.11	659	89.1	0.12	4.3	161.5
407824		16.70	11.45	0.11	1.6	0.736	0.212	1.87	26.8	14.9	1.38	871	99.7	0.10	4.1	148.5
407825		9.60	3.13	0.05	0.4	0.370	0.152	0.50	6.2	4.2	0.21	182	8.13	0.03	0.9	81.4
407826		17.60	16.70	0.13	2.5	0.155	0.138	2.71	32.7	21.5	0.91	563	43.6	0.13	4.2	135.0
407827		21.4	15.55	0.13	2.0	0.140	0.131	1.61	25.0	37.3	1.05	786	21.5	0.07	3.7	153.5
407828		20.1	13.95	0.13	1.9	0.457	0.203	1.60	25.2	34.4	0.78	601	19.30	0.06	4.3	106.0
407829		7.77	19.10	0.08	3.7	0.047	0.065	1.04	24.0	12.1	5.73	1080	3.33	2.06	31.0	367
407830		20.7	18.45	0.11	2.3	0.528	0.241	2.36	15.5	37.3	0.55	180	16.50	0.09	7.1	89.5
407831		21.1	14.30	0.12	2.3	0.693	0.248	1.82	28.1	31.5	0.95	811	16.55	0.07	7.1	107.5
407832		17.55	17.70	0.16	5.8	0.341	0.118	2.53	54.9	27.1	1.23	749	18.60	0.09	29.3	129.0
407833		16.40	18.60	0.13	5.6	0.304	0.137	2.90	37.3	29.5	0.83	397	17.25	0.11	21.1	164.0
407834		7.74	23.7	0.10	5.1	0.183	0.183	4.51	37.8	25.2	0.63	196	11.55	0.17	21.3	138.5
407835		7.35	24.0	0.15	5.2	0.186	0.147	4.36	47.9	21.6	0.51	73	11.80	0.16	32.1	104.5
407836		0.16	0.28	<0.05	0.1	<0.005	<0.005	0.05	0.9	18.8	12.85	270	0.16	0.03	0.4	0.7
407837		10.25	24.4	0.08	5.0	0.131	0.116	4.38	41.8	28.4	0.83	279	14.45	0.16	17.0	136.5
407838		8.37	12.95	0.08	2.7	0.143	0.117	2.43	37.4	15.1	1.89	1520	5.17	0.10	29.7	108.5
407839		6.57	26.4	0.10	5.9	0.227	0.174	4.94	40.9	25.2	0.52	61	13.50	0.20	23.1	122.0
407840		10.85	24.7	0.13	4.4	0.223	0.156	4.75	31.7	26.8	0.55	60	16.00	0.17	19.4	189.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 21-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18159198**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
407821		280	8.9	96.1	0.007	2.51	1.42	12.7	1	1.8	12.0	0.94	0.12	6.84	0.291	0.95
407822		320	11.9	125.0	0.008	2.77	1.96	14.2	2	1.6	26.3	1.23	0.07	8.90	0.379	1.22
407823		480	73.2	55.8	0.086	>10.0	17.70	9.1	11	1.4	47.8	0.26	1.70	4.00	0.102	3.49
407824		460	54.9	50.9	0.104	>10.0	13.40	10.9	12	1.5	56.7	0.24	1.55	4.36	0.101	3.20
407825		110	2.2	12.9	0.011	5.98	0.37	2.4	6	0.4	8.5	0.06	0.06	0.99	0.022	0.75
407826		510	20.3	66.5	0.052	>10.0	4.92	12.2	9	2.5	39.0	0.24	0.76	5.19	0.110	3.62
407827		340	18.6	43.6	0.014	>10.0	5.59	12.6	8	4.8	28.8	0.18	0.82	3.87	0.091	2.12
407828		340	35.7	41.9	0.016	>10.0	9.13	10.1	8	5.7	21.8	0.23	1.85	4.14	0.099	2.34
407829		1940	5.3	32.3	<0.002	0.05	0.36	22.7	1	1.4	496	1.77	0.09	3.27	1.080	0.09
407830		260	64.8	49.9	0.022	>10.0	16.75	10.9	8	8.0	18.5	0.40	2.85	3.61	0.156	3.56
407831		230	63.3	44.5	0.020	>10.0	17.20	8.6	7	4.6	38.2	0.46	1.71	4.89	0.118	3.34
407832		200	68.1	60.6	0.027	>10.0	20.6	7.7	5	3.6	57.7	1.77	1.16	9.01	0.159	3.93
407833		320	63.2	56.2	0.026	>10.0	19.40	12.0	4	3.0	40.6	1.59	0.82	6.52	0.210	4.12
407834		450	27.8	92.1	0.016	6.55	8.64	25.1	2	3.2	36.7	1.30	0.30	5.27	0.530	4.55
407835		660	25.4	91.4	0.015	6.20	7.50	23.2	2	2.8	30.6	1.76	0.27	7.69	0.530	4.25
407836		50	2.5	1.4	<0.002	0.04	0.24	0.3	1	<0.2	141.5	<0.05	<0.05	0.19	0.007	0.10
407837		410	29.0	94.7	0.011	7.73	8.44	20.3	3	2.9	40.8	0.98	0.30	6.25	0.423	4.50
407838		870	8.7	52.2	0.007	4.62	2.15	21.4	2	1.6	87.4	1.88	0.09	6.72	0.298	2.22
407839		480	30.4	101.0	0.013	6.04	9.37	26.8	2	3.4	33.3	1.50	0.31	5.76	0.618	5.07
407840		550	44.6	101.0	0.021	9.53	14.25	26.2	3	3.3	29.8	1.15	0.49	5.07	0.545	5.36



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
407821		5.3	221	2.1	6.6	118	79.2
407822		6.4	248	2.4	8.6	161	96.2
407823		40.2	824	2.4	13.1	2050	74.8
407824		41.5	879	2.7	12.5	3120	67.8
407825		4.6	123	2.0	2.2	2360	15.9
407826		22.4	394	1.8	8.9	1230	96.9
407827		5.5	142	1.2	6.6	734	84.1
407828		6.4	121	1.5	8.0	1280	78.7
407829		0.7	150	3.6	21.6	113	151.5
407830		9.1	130	1.4	5.9	1260	92.8
407831		8.4	126	0.8	8.0	1360	88.3
407832		12.3	159	1.1	15.5	595	220
407833		15.7	191	1.0	13.8	635	213
407834		18.6	196	1.4	14.4	935	200
407835		14.8	179	1.3	16.1	655	210
407836		0.3	3	0.4	0.6	20	2.7
407837		14.8	164	1.1	14.6	462	195.5
407838		8.2	97	1.4	9.7	763	106.5
407839		20.6	208	1.8	14.2	927	213
407840		23.6	224	1.8	13.8	807	174.5



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **21-JUIL-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18159198**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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À: **MINIÈRE OSISKO INC.**  
**300, RUE ST-PAUL**  
**BUREAU 200**  
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Page: 1  
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 Compte: MINVIR

**CERTIFICAT VO18163678**

Projet: Kan  
 Bon de commande #: KANDH18-024  
 Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 4-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
 SIMON HOULE  
 LIZ STOCK

PAUL DOBAK  
 AUDREY ROUSSEL-LALIER  
 CORPORATIF WEBTRIEVE

SIMON HEBERT  
 LEE SCHOLL

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18163678**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456461		2.80	0.009	0.95	0.57	91.7	10	0.13	0.06	2.98	0.91	25.0	6.1	18	0.40	233
456462		2.48	0.003	0.63	0.82	2.4	20	0.22	0.04	2.81	0.18	24.4	11.6	22	0.21	139.5
456463		2.84	0.058	2.97	5.38	11.4	140	1.79	0.69	0.18	3.17	44.2	71.1	91	2.31	439
456464		3.81	0.062	3.02	5.62	11.3	170	1.69	0.54	0.20	8.06	42.8	45.4	88	2.36	381
456465		6.49	0.048	3.33	5.32	6.2	160	1.70	0.63	0.33	6.75	55.0	26.9	85	2.29	417
456466		3.66	0.016	1.95	5.52	12.5	220	2.01	0.44	0.08	0.32	53.5	49.5	106	1.75	352
456467		1.68	0.002	0.89	0.44	115.5	<10	0.05	0.06	4.84	0.18	12.85	2.5	12	<0.05	304
456468		2.69	0.001	1.03	1.04	0.6	10	0.15	0.18	5.64	0.16	27.0	3.5	33	0.09	281
456469		0.07	0.683	0.21	7.53	20.2	340	1.41	0.13	4.55	0.18	56.7	42.0	191	1.92	60.5
456470		2.42	0.003	0.64	0.57	0.9	10	0.14	0.27	6.47	0.10	14.05	3.4	21	0.17	112.0
456471		2.41	0.003	0.47	1.26	18.5	60	0.54	0.11	6.22	0.33	23.9	23.1	30	0.56	131.5
456472		2.03	0.005	0.93	0.87	4.6	20	0.26	0.06	4.64	0.56	21.7	14.2	19	0.18	325
456473		2.96	0.007	1.56	6.14	35.4	200	2.48	0.32	0.09	4.95	59.8	35.4	93	2.75	330
456474		3.06	0.045	2.20	4.42	176.0	170	1.69	0.35	1.33	18.50	57.0	24.2	68	4.72	162.5
456475		3.70	0.059	2.28	4.30	256	160	1.57	0.46	1.16	16.55	48.9	24.5	67	4.18	142.5
456476		0.27	<0.001	0.01	0.06	0.6	20	0.08	<0.01	33.8	0.03	1.00	0.6	7	<0.05	1.6
456477		4.46	0.041	1.41	4.96	242	130	1.68	0.28	1.95	10.80	51.5	19.9	78	3.42	95.5
456478		4.67	0.041	1.25	6.20	217	150	1.51	0.23	1.59	6.17	60.0	19.1	81	3.75	107.0
456479		4.33	0.025	0.98	7.45	145.0	210	1.36	0.24	1.87	4.11	66.8	21.4	86	4.17	113.0
456480		5.00	0.015	0.68	8.90	57.7	210	1.33	0.27	0.48	1.56	47.7	25.1	114	5.04	99.5



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18163678**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456461		17.20	2.14	0.06	0.2	0.031	0.044	0.08	14.7	11.1	2.72	4630	0.76	<0.01	1.1	86.4
456462		11.80	2.93	0.05	0.3	0.013	0.027	0.15	14.3	11.9	2.18	3920	2.96	0.01	1.5	50.5
456463		28.9	18.90	0.12	2.1	0.159	0.153	2.42	21.2	28.3	1.10	496	18.40	0.05	4.5	158.0
456464		25.0	19.25	0.13	2.3	0.257	0.278	2.80	20.2	26.5	0.93	414	15.95	0.06	6.3	155.0
456465		27.0	16.65	0.15	2.1	0.214	0.236	2.56	27.9	24.6	0.85	478	16.25	0.06	4.5	200
456466		25.0	18.10	0.12	2.5	0.049	0.095	1.78	26.9	46.1	1.92	417	21.2	0.05	7.8	170.0
456467		18.45	1.99	0.07	0.2	0.007	0.033	0.01	6.8	8.9	3.20	6680	0.47	<0.01	0.2	143.0
456468		19.15	5.52	0.08	0.5	0.019	0.031	0.05	14.2	18.3	4.00	5180	0.87	0.01	1.6	133.5
456469		7.51	20.4	0.09	3.6	0.025	0.069	0.90	24.7	15.5	2.99	957	1.83	1.74	20.2	146.0
456470		9.38	2.97	0.06	0.3	0.007	0.008	0.06	7.3	12.6	3.21	2180	0.57	0.01	1.5	46.0
456471		12.00	4.65	0.06	0.6	0.012	0.020	0.43	12.6	12.6	2.96	3470	3.17	0.02	3.6	74.6
456472		17.65	3.39	0.07	0.4	0.017	0.039	0.14	11.8	12.3	2.82	5550	1.79	0.01	1.2	161.0
456473		22.4	20.6	0.12	3.2	0.117	0.113	2.26	31.0	43.6	1.31	277	25.0	0.07	11.9	184.0
456474		16.90	11.80	0.16	2.2	0.688	0.091	2.04	36.6	24.6	0.89	661	128.5	0.06	4.5	269
456475		15.95	11.25	0.15	1.8	0.861	0.109	1.99	31.6	22.6	0.80	521	134.5	0.06	3.5	368
456476		0.19	0.24	0.06	<0.1	<0.005	<0.005	0.01	1.2	1.5	1.60	93	0.26	0.03	0.1	2.5
456477		15.35	12.20	0.15	1.6	0.665	0.102	2.19	31.2	23.4	1.06	482	71.8	0.12	6.2	230
456478		15.55	15.05	0.13	2.0	0.538	0.114	2.85	34.8	19.3	0.85	294	36.6	0.17	7.5	177.0
456479		13.25	19.60	0.12	3.1	0.310	0.112	3.33	38.4	21.7	1.08	305	24.6	0.20	8.4	160.0
456480		9.72	23.7	0.14	3.8	0.124	0.099	4.14	24.8	26.1	0.65	122	11.65	0.19	8.7	105.5





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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18163678**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456461		1150	6.6	4.1	<0.002	6.87	1.36	1.2	3	0.2	109.5	0.07	0.56	0.75	0.014	0.20
456462		670	12.1	5.4	0.003	4.55	1.08	1.8	3	0.4	108.5	0.08	0.35	0.92	0.021	0.20
456463		320	68.5	69.7	0.016	>10.0	22.2	11.5	8	4.2	16.8	0.25	2.08	3.48	0.126	3.21
456464		350	62.2	75.9	0.015	>10.0	22.7	11.4	8	4.3	17.9	0.33	2.06	3.43	0.145	3.77
456465		360	62.5	85.7	0.019	>10.0	22.2	10.8	8	3.7	24.2	0.23	2.18	4.09	0.132	3.52
456466		380	30.0	47.0	0.023	>10.0	8.32	13.5	8	3.6	11.8	0.44	1.19	4.10	0.150	2.18
456467		450	3.7	0.2	<0.002	6.99	0.55	1.2	5	<0.2	152.0	<0.05	0.45	0.37	0.005	0.02
456468		630	4.9	1.8	<0.002	6.84	0.73	2.5	9	<0.2	165.0	0.08	0.48	1.83	0.018	0.09
456469		1180	14.5	40.4	<0.002	0.03	1.02	20.5	1	1.7	363	1.19	<0.05	5.30	0.942	0.18
456470		440	2.8	2.5	<0.002	2.88	0.30	1.5	9	0.2	171.5	0.06	0.40	0.74	0.016	0.12
456471		440	6.5	15.8	0.004	5.81	1.82	3.1	5	0.7	156.0	0.18	0.24	1.46	0.045	0.68
456472		730	9.8	4.8	0.002	7.25	0.75	1.6	6	0.3	145.0	0.07	0.50	0.91	0.018	0.20
456473		280	26.9	66.6	0.025	>10.0	4.73	12.2	10	3.8	14.5	0.73	0.70	5.80	0.170	3.07
456474		1070	65.0	75.2	0.098	>10.0	22.3	8.6	22	1.4	44.1	0.34	0.58	5.10	0.101	4.09
456475		930	88.4	69.2	0.086	>10.0	34.0	8.1	16	1.3	39.0	0.25	0.85	4.36	0.096	4.50
456476		60	0.6	0.3	<0.002	0.01	0.10	0.2	1	<0.2	78.9	<0.05	<0.05	0.07	0.005	<0.02
456477		590	74.1	68.4	0.055	>10.0	25.0	9.6	13	1.1	51.2	0.38	0.53	4.42	0.126	3.93
456478		440	67.1	84.6	0.038	>10.0	21.7	11.6	10	1.2	45.6	0.44	0.49	4.82	0.151	4.81
456479		250	45.7	93.9	0.028	>10.0	14.00	14.6	7	1.6	54.1	0.48	0.52	5.39	0.205	4.97
456480		240	26.5	99.5	0.012	8.03	6.82	17.0	3	1.9	36.6	0.50	0.42	4.27	0.293	5.35



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18163678**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
456461		0.5	25	0.2	7.1	206	11.1
456462		1.0	30	0.2	5.9	69	14.8
456463		7.4	144	1.3	7.3	585	84.4
456464		7.4	147	1.3	7.9	1620	91.8
456465		6.9	141	1.3	8.3	1280	83.2
456466		8.6	177	1.9	6.8	144	99.2
456467		0.3	19	0.1	7.1	50	8.0
456468		1.3	52	0.1	7.8	73	25.6
456469		1.2	148	1.8	21.7	133	151.0
456470		0.4	27	0.1	6.3	33	13.4
456471		1.7	50	0.5	7.9	75	26.1
456472		0.9	33	0.3	7.5	120	17.0
456473		14.6	256	1.9	8.5	863	127.0
456474		62.1	1250	3.4	29.8	3060	85.5
456475		62.3	1280	3.5	27.7	2950	70.6
456476		0.2	3	<0.1	2.2	7	1.5
456477		38.1	709	2.3	17.6	2110	66.7
456478		22.2	349	1.5	12.6	1380	81.4
456479		17.8	249	1.3	11.8	996	118.0
456480		13.0	175	1.3	10.3	403	146.0



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Page: **Annexe 1**  
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**CERTIFICAT D'ANALYSE VO18163678**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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## CERTIFICAT VO18163677

Projet: Kan

Bon de commande #: KANDH18-023

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 4-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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**BUREAU 200**  
**QUEBEC QC G1K 7R1**

Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 28-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163677**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456441		2.83	0.079	0.06	0.17	94.7	10	0.29	0.01	9.42	0.18	10.80	3.3	4	0.56	16.2
456442		2.81	0.131	0.10	0.07	155.0	10	0.10	0.02	2.56	0.11	5.47	3.5	4	0.42	33.1
456443		2.76	0.305	0.05	0.09	352	10	0.13	0.02	5.68	0.14	5.94	5.9	9	0.24	17.0
456444		2.78	0.020	0.03	0.06	50.5	10	0.13	0.02	5.39	0.08	5.40	7.3	6	0.42	7.2
456445		2.83	0.391	0.10	0.22	391	10	0.21	0.03	3.08	0.17	12.20	10.0	3	0.79	30.9
456446		2.46	0.068	0.21	0.42	33.7	10	0.31	0.03	7.16	0.28	16.55	21.2	8	0.32	60.7
456447		2.64	0.060	1.66	6.36	1.7	240	2.94	0.92	0.07	0.11	73.6	13.3	103	2.34	279
456448		4.99	0.083	1.82	3.17	17.3	130	1.36	0.68	0.26	6.49	42.9	31.4	66	1.23	256
456449		0.07	7.62	1.31	6.04	34.4	310	0.89	0.49	2.92	0.08	33.0	39.8	327	0.64	111.0
456450		2.30	0.014	0.52	0.44	6.2	10	0.12	0.04	3.10	0.14	12.95	8.5	12	0.11	107.5
456451		1.63	0.018	0.97	0.83	0.8	10	0.17	0.06	2.18	0.11	23.8	10.6	22	0.72	196.0
456452		3.64	0.048	1.59	4.52	1.0	180	1.97	0.30	1.18	2.68	53.1	18.6	60	2.36	260
456453		4.97	0.054	1.71	5.81	2.3	230	1.98	0.32	0.41	4.06	70.2	24.9	79	3.06	241
456454		2.54	0.068	1.88	6.33	3.4	220	2.04	0.41	0.26	5.27	69.8	38.2	88	3.51	231
456455		3.24	0.069	2.50	4.46	0.8	180	1.54	0.46	0.56	3.20	46.6	11.4	70	2.31	290
456456		0.31	0.001	0.01	0.09	<0.2	40	0.06	0.01	32.4	0.03	1.67	0.5	2	0.07	4.1
456457		2.09	0.006	0.70	1.19	1.1	20	0.17	0.04	2.01	0.27	25.2	11.1	24	0.21	159.0
456458		2.21	0.028	0.69	0.28	58.2	<10	<0.05	0.05	1.20	0.04	13.90	9.8	10	<0.05	134.5
456459		2.50	0.020	1.17	0.67	88.2	10	0.11	0.07	2.11	0.17	18.40	23.2	14	0.11	263
456460		5.00	0.079	2.58	5.53	10.1	170	1.74	0.46	0.31	6.12	53.4	59.6	86	2.67	309



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 28-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18163677**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
456441		21.6	0.95	0.09	0.1	0.006	0.016	0.03	6.0	3.7	5.31	6650	0.24	0.01	0.9	4.4
456442		25.9	0.45	0.08	<0.1	0.011	0.025	0.02	3.1	1.5	3.73	6370	0.15	<0.01	0.2	15.6
456443		20.0	0.50	0.06	<0.1	0.019	0.019	0.02	3.4	1.9	4.01	5720	0.39	<0.01	0.2	5.0
456444		20.9	0.38	0.07	<0.1	0.017	0.033	0.02	3.4	1.9	4.66	5880	1.42	<0.01	0.3	4.2
456445		27.2	1.02	0.10	0.1	0.006	0.051	0.05	8.0	4.1	4.18	5910	1.75	0.01	0.6	9.7
456446		23.4	1.77	0.09	0.2	0.051	0.043	0.08	9.5	6.6	4.24	7210	1.37	0.01	1.2	20.8
456447		27.3	22.6	0.23	3.0	0.065	0.128	2.54	40.7	37.1	1.46	584	28.1	0.06	10.8	109.0
456448		25.9	12.00	0.12	1.7	0.105	0.164	1.08	22.3	26.0	1.15	712	20.5	0.03	3.4	104.5
456449		5.46	15.50	0.08	2.4	0.178	0.054	1.03	15.1	16.2	3.88	735	6.31	1.17	16.4	243
456450		16.25	2.33	0.07	0.1	0.014	0.063	0.06	7.0	7.3	3.12	5710	1.17	0.01	0.3	39.3
456451		21.0	4.05	0.09	0.5	0.006	0.052	0.11	13.5	17.2	3.70	6520	5.01	<0.01	1.3	74.2
456452		25.1	14.65	0.14	2.5	0.111	0.136	2.30	28.5	22.4	1.36	1510	15.90	0.07	6.6	118.0
456453		21.0	19.00	0.14	3.2	0.122	0.190	2.93	38.0	33.2	0.98	668	21.9	0.08	8.5	102.0
456454		21.0	20.1	0.13	3.3	0.143	0.199	3.22	37.2	37.8	0.82	432	22.6	0.09	9.4	106.0
456455		30.2	13.95	0.17	1.7	0.105	0.152	2.18	24.8	28.0	0.96	914	17.30	0.06	2.9	159.0
456456		0.32	0.29	<0.05	<0.1	<0.005	0.007	0.03	1.5	2.2	3.32	202	0.12	0.04	0.2	1.0
456457		15.75	4.41	0.09	0.6	0.014	0.047	0.18	13.1	19.6	2.82	5500	4.12	0.01	1.6	58.9
456458		14.95	1.51	0.06	0.1	0.007	0.042	0.02	8.1	5.1	2.47	5250	0.48	<0.01	0.4	43.9
456459		21.9	3.12	0.07	0.3	0.017	0.052	0.08	10.0	9.5	3.39	7240	0.89	<0.01	1.2	88.7
456460		24.1	17.80	0.19	2.1	0.183	0.244	2.66	26.7	25.2	0.93	624	17.80	0.06	4.2	115.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18163677**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456441		220	1.9	2.0	<0.002	0.73	0.19	1.5	<1	<0.2	140.0	<0.05	0.09	0.20	0.008	0.11
456442		90	1.1	1.2	<0.002	1.84	0.12	0.6	1	<0.2	52.7	<0.05	0.20	0.03	<0.005	0.05
456443		80	1.5	1.1	<0.002	0.86	0.16	0.7	1	<0.2	79.7	<0.05	0.36	0.03	<0.005	0.04
456444		40	1.5	1.0	<0.002	0.33	0.18	0.4	<1	0.2	52.6	<0.05	0.09	0.04	<0.005	0.04
456445		190	1.7	3.0	<0.002	1.29	0.20	0.6	2	0.2	70.2	<0.05	0.49	0.11	<0.005	0.18
456446		470	3.7	3.9	<0.002	3.06	0.33	0.9	2	0.2	155.0	0.06	0.19	0.53	0.012	0.17
456447		230	37.2	94.5	0.028	>10.0	9.84	16.1	9	4.6	14.9	0.45	1.71	6.98	0.114	2.59
456448		380	28.6	41.9	0.015	>10.0	7.16	8.3	7	3.3	17.3	0.20	1.69	3.48	0.059	1.38
456449		1080	9.5	40.7	<0.002	0.09	0.78	21.0	1	1.0	273	0.96	0.23	2.50	0.665	0.19
456450		190	5.7	2.3	<0.002	4.19	1.11	1.1	2	<0.2	111.0	<0.05	0.37	0.24	<0.005	0.09
456451		510	7.2	6.8	0.003	6.87	1.33	2.2	2	<0.2	75.6	0.09	0.63	0.90	0.019	0.41
456452		250	34.9	76.6	0.018	>10.0	9.69	9.4	5	3.0	53.8	0.40	0.88	4.70	0.126	2.69
456453		250	37.4	98.1	0.021	>10.0	10.00	11.3	6	3.5	28.1	0.59	0.89	6.94	0.151	3.32
456454		230	54.2	109.5	0.023	>10.0	13.60	12.6	5	3.6	24.6	0.54	1.02	6.82	0.159	3.67
456455		250	69.5	75.6	0.015	>10.0	15.35	10.0	7	3.0	32.7	0.15	1.39	4.19	0.095	2.63
456456		70	0.8	0.9	<0.002	0.07	0.11	0.2	<1	<0.2	79.6	<0.05	<0.05	0.09	0.006	0.03
456457		590	6.2	6.1	0.005	5.43	1.03	3.1	3	0.5	72.4	0.09	0.41	1.13	0.025	0.27
456458		210	6.1	0.6	<0.002	4.69	1.60	0.6	1	<0.2	37.6	<0.05	0.41	0.24	<0.005	0.04
456459		440	11.1	3.0	<0.002	7.87	2.77	1.4	2	0.2	73.1	0.07	0.72	0.68	0.012	0.12
456460		350	63.4	88.5	0.016	>10.0	17.80	11.8	7	4.2	21.8	0.23	1.65	4.22	0.123	3.71



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18163677**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456441		0.3	14	0.1	7.3	39	5.5
456442		0.1	7	<0.1	3.5	44	1.4
456443		<0.1	7	0.1	4.8	39	1.2
456444		<0.1	6	0.1	4.2	29	1.2
456445		0.2	12	0.1	4.8	43	3.8
456446		2.0	18	0.2	7.2	76	8.4
456447		12.2	230	1.3	9.3	131	115.5
456448		6.3	109	0.5	6.2	1210	69.8
456449		0.6	140	9.2	13.8	82	96.6
456450		0.3	20	0.1	4.3	85	5.7
456451		1.6	45	0.1	5.2	115	21.0
456452		8.6	142	1.1	7.8	707	95.6
456453		12.7	210	1.3	11.7	1000	124.5
456454		12.1	192	1.3	8.9	1190	130.0
456455		7.9	136	1.0	6.5	733	68.8
456456		0.2	2	0.1	2.2	9	1.6
456457		1.8	43	0.2	4.9	122	23.1
456458		0.4	17	0.1	2.9	48	6.3
456459		0.5	35	0.2	4.0	89	13.2
456460		7.5	148	1.3	7.2	1300	80.0





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **28-JUIL-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163677**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 20-JUIL-2018  
Compte: MINVIR

**CERTIFICAT VO18158276**

Projet: Kan  
Bon de commande #: KANDH18-018  
Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-JUIN-2018.

Les résultats sont transmis à:

GLENN ASCH  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

SIMON HOULE  
LIZ STOCK

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
407841		4.76	0.025	0.59	9.47	83.4	130	2.07	0.19	0.21	3.44	62.6	28.6	160	4.03	147.5
407842		5.33	0.074	0.88	6.98	91.7	90	1.88	0.33	1.15	2.15	54.5	34.9	103	3.22	151.5
407843		4.80	0.040	1.19	6.07	57.6	70	2.01	0.47	0.43	2.29	57.7	39.8	78	3.09	293
407844		1.81	0.010	1.09	6.45	2.8	110	2.53	0.35	0.67	3.43	69.6	14.6	83	3.57	429
407845		3.48	0.005	0.06	0.13	12.7	10	0.28	0.01	3.82	0.07	7.66	4.4	8	0.09	18.5
407846		2.51	0.036	0.02	0.11	0.8	10	0.37	0.01	2.40	0.11	10.60	6.5	3	0.33	5.9
407847		2.55	2.20	0.55	0.14	2.0	10	0.37	0.02	2.52	0.11	14.60	10.0	5	0.23	15.1
407848		2.57	0.176	0.01	0.15	3.7	10	0.39	0.02	1.86	0.13	16.45	10.8	3	0.22	14.2
407849		0.06	7.86	1.28	6.13	35.8	310	0.93	0.52	3.01	0.09	30.9	39.5	319	0.66	116.5
407850		2.65	0.006	0.01	0.03	4.7	10	0.49	0.02	1.39	0.09	18.00	12.7	5	0.19	2.3
442251		2.68	0.038	0.01	0.02	1.2	10	0.28	0.02	1.18	0.04	24.2	9.8	1	0.06	5.4
442252		2.54	0.415	0.03	0.12	1.1	10	0.24	0.01	0.95	0.19	19.45	11.6	4	0.22	12.5
442253		3.18	0.138	0.01	0.08	0.6	10	0.30	0.01	1.32	0.10	16.25	6.1	3	0.23	3.1
442254		2.33	0.003	0.01	0.05	2.9	<10	0.45	0.02	1.13	0.02	7.81	7.0	5	0.64	1.5
442255		2.79	0.001	0.01	0.07	0.8	10	1.09	0.01	1.28	<0.02	8.37	6.4	3	1.67	1.8
442256		0.22	0.004	<0.01	0.05	<0.2	40	0.07	0.01	32.0	<0.02	1.51	0.6	2	0.06	2.1
442257		2.80	0.002	<0.01	0.15	0.6	10	1.06	0.01	1.68	<0.02	13.30	5.7	3	2.53	1.8
442258		2.90	0.001	0.01	0.05	1.0	10	0.48	0.02	1.25	<0.02	5.38	4.9	2	1.56	1.7
442259		2.51	0.001	<0.01	0.06	<0.2	10	0.98	0.01	1.07	<0.02	6.84	4.1	3	1.72	1.8
442260		2.61	<0.001	<0.01	0.03	1.2	10	0.98	0.01	1.13	<0.02	6.96	3.8	5	1.08	1.4



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18158276**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
407841		13.35	23.2	0.16	4.8	0.258	0.183	4.50	33.2	25.1	0.60	72	15.30	0.16	23.7	185.0
407842		16.15	19.70	0.16	4.5	0.267	0.140	3.42	27.2	23.0	0.94	408	16.90	0.12	18.9	152.5
407843		21.8	18.45	0.15	3.6	0.203	0.137	2.95	29.2	21.4	0.62	178	23.1	0.10	13.1	130.0
407844		26.1	18.60	0.16	3.9	0.197	0.166	3.09	37.4	22.4	0.77	324	22.5	0.10	12.8	162.0
407845		24.4	0.52	0.06	0.1	<0.005	0.005	0.03	4.5	2.2	4.20	9120	0.64	<0.01	1.5	7.2
407846		23.0	0.47	0.08	<0.1	<0.005	<0.005	0.01	6.7	1.4	3.74	8460	0.29	<0.01	0.6	2.5
407847		24.5	0.66	0.08	<0.1	0.046	0.007	0.02	9.6	2.1	3.89	8670	1.11	<0.01	0.6	7.9
407848		27.3	0.69	0.07	<0.1	<0.005	0.006	0.01	11.5	2.2	4.33	8710	0.41	<0.01	0.5	3.3
407849		5.61	16.45	0.07	2.6	0.171	0.052	1.05	15.9	14.4	4.08	753	6.45	1.20	18.6	254
407850		26.7	0.36	0.09	<0.1	<0.005	<0.005	0.01	13.7	0.8	4.03	8990	0.40	<0.01	0.4	1.5
442251		27.6	0.34	0.08	<0.1	<0.005	<0.005	<0.01	17.1	0.7	3.84	9290	0.20	<0.01	0.4	2.1
442252		28.5	0.68	0.07	<0.1	0.015	0.009	0.02	14.5	1.7	4.07	9450	0.36	<0.01	0.4	3.2
442253		26.6	0.49	0.07	<0.1	<0.005	0.005	0.01	11.1	1.1	3.65	11450	0.30	<0.01	0.4	1.6
442254		25.4	0.41	0.07	<0.1	<0.005	<0.005	0.01	5.7	0.6	3.42	14600	0.45	<0.01	0.7	1.4
442255		28.8	0.55	0.07	<0.1	<0.005	<0.005	0.03	6.2	0.5	3.98	16400	0.25	0.01	1.0	2.0
442256		0.98	0.24	<0.05	<0.1	<0.005	0.005	0.01	1.6	1.8	2.51	636	0.13	0.03	0.2	0.5
442257		28.9	0.87	0.07	0.1	<0.005	0.005	0.04	9.9	0.7	4.16	13300	0.17	0.01	2.1	2.2
442258		26.1	0.35	0.06	0.1	<0.005	<0.005	0.03	4.0	0.4	3.62	8720	0.15	0.01	0.9	1.2
442259		27.0	0.44	0.05	<0.1	<0.005	<0.005	0.03	5.1	0.4	3.46	10400	0.20	0.01	1.0	1.4
442260		25.5	0.36	0.05	<0.1	<0.005	<0.005	0.02	5.1	0.3	3.45	8050	0.41	0.01	0.5	1.2



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18158276**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
407841		670	47.6	101.0	0.019	>10.0	13.25	24.2	4	3.4	27.3	1.46	0.60	4.78	0.582	5.31
407842		450	63.7	70.3	0.024	>10.0	15.10	17.1	4	3.2	47.9	1.19	1.04	4.77	0.341	4.27
407843		240	70.4	70.0	0.034	>10.0	16.30	11.0	6	3.8	25.8	0.83	1.25	6.10	0.179	3.49
407844		200	67.4	77.0	0.031	>10.0	14.00	12.3	7	4.9	34.6	0.84	0.80	6.68	0.205	3.25
407845		100	1.4	0.7	<0.002	0.92	0.26	0.4	<1	<0.2	56.3	<0.05	0.10	0.18	0.009	0.03
407846		90	0.7	0.7	<0.002	0.27	0.09	0.1	1	<0.2	44.9	<0.05	<0.05	0.05	<0.005	0.03
407847		70	3.7	1.1	<0.002	0.49	0.14	0.2	<1	<0.2	39.3	<0.05	0.06	0.06	<0.005	0.03
407848		80	1.0	0.6	<0.002	0.14	0.10	0.2	<1	<0.2	39.2	<0.05	0.05	0.04	<0.005	<0.02
407849		1100	10.9	38.9	<0.002	0.08	0.77	21.9	1	1.0	281	1.05	0.25	2.42	0.677	0.19
407850		50	0.7	0.4	<0.002	0.02	0.12	0.1	<1	<0.2	24.2	<0.05	0.07	0.03	<0.005	<0.02
442251		50	0.5	0.3	<0.002	0.11	0.07	0.1	<1	<0.2	18.6	<0.05	<0.05	0.02	<0.005	<0.02
442252		30	1.5	0.9	<0.002	0.52	0.30	0.1	<1	<0.2	19.5	<0.05	0.06	0.03	<0.005	0.03
442253		60	0.5	0.5	<0.002	0.10	0.07	0.1	<1	<0.2	23.6	<0.05	0.05	0.03	<0.005	<0.02
442254		150	0.5	0.7	<0.002	0.02	0.08	0.1	<1	<0.2	13.5	<0.05	0.05	0.07	<0.005	<0.02
442255		150	0.6	1.5	<0.002	0.01	0.08	0.2	<1	<0.2	14.4	<0.05	<0.05	0.11	<0.005	<0.02
442256		70	0.6	0.3	<0.002	0.01	0.07	0.2	1	<0.2	78.8	<0.05	<0.05	0.07	<0.005	<0.02
442257		290	0.6	2.1	<0.002	0.01	0.11	0.3	<1	<0.2	21.5	0.07	<0.05	0.22	0.008	<0.02
442258		150	0.5	1.3	<0.002	0.01	0.20	0.1	<1	<0.2	14.4	<0.05	0.08	0.09	<0.005	<0.02
442259		270	<0.5	1.5	<0.002	0.01	0.08	0.1	<1	<0.2	13.2	<0.05	<0.05	0.10	0.005	<0.02
442260		140	<0.5	0.9	<0.002	0.01	0.08	0.1	<1	<0.2	11.9	<0.05	<0.05	0.04	<0.005	<0.02



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18158276**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U	V	W	Y	Zn	Zr	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	0.01	0.01
407841		25.7	242	2.1	15.0	1080	184.0	75.4	96.3
407842		19.9	203	1.6	12.9	669	180.0		96.1
407843		18.7	223	1.6	10.7	685	145.0		
407844		16.5	222	2.1	11.1	977	152.5		
407845		0.2	11	0.2	5.1	21	4.8		
407846		0.1	8	0.1	5.0	19	3.1		
407847		0.1	9	0.1	5.4	26	2.3		
407848		0.1	11	0.1	6.0	26	2.6		
407849		0.6	147	10.6	16.4	86	98.5		
407850		0.1	7	0.1	5.7	15	3.1		
442251		0.1	8	0.1	6.3	13	3.5		
442252		0.1	10	0.1	5.3	41	6.8		
442253		0.1	8	0.1	5.5	18	3.0		
442254		0.1	7	0.2	6.6	6	2.2		
442255		0.1	9	0.3	8.7	4	3.1		
442256		0.1	1	0.1	2.6	3	1.6		
442257		0.1	17	0.2	11.2	5	7.1		
442258		0.1	6	0.1	6.7	4	3.1		
442259		0.1	8	0.2	7.0	4	2.6		
442260		0.1	7	0.2	7.9	3	1.9		



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **20-JUIL-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18158276**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 26-JUIL-2018  
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## CERTIFICAT VO18163680

Projet: Kan

Bon de commande #: KANDH18-026

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 4-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 26-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163680**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456501		4.54	<0.001	0.03	6.71	10.7	60	0.59	0.05	5.94	0.07	11.50	48.4	161	13.60	113.0
456502		4.49	<0.001	0.05	6.96	12.9	50	0.46	0.03	5.47	0.08	11.65	48.9	167	12.75	134.0
456503		4.36	0.001	0.04	6.38	10.7	30	0.48	0.02	7.35	0.10	11.15	41.7	147	7.13	103.5
456504		4.85	<0.001	0.06	6.14	47.2	10	0.42	0.01	9.16	0.14	8.36	50.0	139	0.26	76.2
456505		4.80	0.001	0.21	6.03	16.2	270	0.98	0.09	4.80	0.23	19.20	47.2	158	0.72	159.0
456506		5.05	<0.001	0.15	8.67	16.5	380	2.51	0.34	0.98	0.19	66.8	24.2	118	2.79	83.9
456507		3.20	0.002	0.22	8.29	56.3	350	2.92	0.33	0.87	0.29	67.7	27.3	117	3.22	76.7
456508		4.25	0.006	0.22	8.40	24.1	340	3.37	0.24	0.34	1.27	70.4	22.5	116	3.02	47.8
456509		0.07	7.77	1.35	6.19	35.5	310	1.01	0.54	2.98	0.09	32.6	42.1	330	0.70	116.0
456510		4.81	0.006	0.24	7.46	17.7	260	3.01	0.72	0.74	0.80	73.2	22.9	103	3.90	51.6
456511		4.02	0.003	0.11	7.63	2.9	190	3.02	0.30	0.64	0.06	66.8	21.5	116	2.31	88.5
456512		2.61	0.002	0.03	0.54	1.0	30	1.00	0.05	3.55	0.30	16.65	7.7	15	11.00	11.7
456513		2.56	0.062	0.01	0.43	0.8	30	0.90	0.01	1.55	0.21	13.80	8.5	13	10.05	2.7
456514		2.29	<0.001	<0.01	0.43	0.2	30	1.10	0.01	1.39	0.26	14.75	8.4	13	10.15	2.2
456515		2.42	0.008	0.14	0.52	0.3	40	1.08	0.08	2.18	0.34	17.65	10.0	14	12.45	49.8
456516		0.24	0.005	0.01	0.06	<0.2	30	0.07	0.01	31.8	0.03	1.17	0.5	2	0.15	1.9
456517		2.33	0.010	0.41	3.11	1.6	160	1.46	0.54	1.53	0.29	50.9	25.6	55	7.51	179.5
456518		2.10	0.001	0.36	5.04	<0.2	70	1.44	0.14	0.81	0.08	80.3	26.4	55	6.83	125.5
456519		1.12	0.002	0.47	3.61	0.8	100	1.89	0.17	1.08	0.11	73.8	31.9	30	14.10	168.5
456520		2.34	0.003	0.02	0.10	4.3	10	0.31	0.01	7.32	0.08	7.03	4.4	5	1.43	26.8



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 26-JUIL-2018  
 Compte: MINVIR

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
456501		8.99	17.85	0.07	1.1	0.027	0.092	0.98	4.1	28.7	3.88	1320	0.25	1.63	3.8	90.1
456502		9.80	18.00	0.07	1.0	0.027	0.085	0.94	4.1	30.4	3.90	1390	0.29	1.61	3.9	86.4
456503		8.98	17.25	0.06	0.8	0.025	0.086	0.52	4.0	27.6	3.55	1410	0.20	1.52	3.8	74.5
456504		8.05	15.75	0.05	0.9	0.015	0.072	0.04	3.0	30.4	3.92	1540	0.31	1.25	3.0	136.0
456505		13.95	15.20	0.08	1.8	0.023	0.058	1.10	9.1	25.5	2.57	1710	5.62	0.49	11.6	127.0
456506		11.10	24.0	0.12	1.9	0.010	0.052	3.39	36.0	32.6	1.39	4480	3.07	0.04	10.8	59.0
456507		10.75	24.6	0.13	2.0	0.029	0.066	3.71	36.4	35.9	1.20	2330	4.88	0.04	12.8	71.3
456508		10.20	23.3	0.13	2.1	0.051	0.062	3.91	36.9	39.8	1.22	896	3.81	0.05	14.8	68.2
456509		5.59	16.15	0.09	2.3	0.145	0.054	1.06	15.6	15.7	3.98	741	6.23	1.20	16.3	249
456510		12.20	22.3	0.11	2.3	0.041	0.053	3.35	37.5	42.0	1.36	948	4.99	0.06	18.4	75.7
456511		15.25	22.4	0.13	2.2	0.017	0.030	1.71	34.4	38.7	1.76	1960	6.47	0.46	16.7	75.4
456512		20.3	2.97	0.07	0.5	0.013	0.026	0.26	9.1	0.9	1.76	17300	0.36	0.11	5.2	10.9
456513		24.5	3.07	0.07	0.3	0.014	0.015	0.22	7.8	0.6	1.96	19250	0.28	0.11	3.7	8.0
456514		26.6	3.01	0.08	0.3	0.029	0.019	0.22	8.2	0.7	2.10	18400	0.25	0.11	3.8	7.4
456515		25.8	2.62	0.07	0.3	0.013	0.064	0.27	10.2	0.7	2.47	12350	0.17	0.13	4.4	29.2
456516		0.41	0.20	<0.05	<0.1	<0.005	<0.005	0.01	1.3	2.2	3.42	253	0.08	0.03	0.1	0.4
456517		26.0	12.00	0.11	2.2	0.044	0.045	1.32	28.1	21.2	1.99	3090	15.70	0.06	18.3	106.0
456518		22.1	18.80	0.12	5.1	0.040	0.024	0.67	44.7	29.4	2.03	658	21.9	1.08	44.0	107.5
456519		21.8	15.30	0.13	2.9	0.115	0.017	1.29	37.8	31.3	1.45	430	21.6	1.01	33.2	102.5
456520		12.80	1.17	0.05	0.1	0.019	0.067	0.04	4.1	0.3	0.47	5330	1.17	0.02	1.1	4.4



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 26-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163680**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456501		470	1.7	102.5	<0.002	0.17	0.32	43.1	1	0.6	75.6	0.23	<0.05	0.34	0.770	2.18
456502		480	1.7	99.1	0.002	0.11	0.30	44.9	<1	0.7	77.4	0.26	<0.05	0.35	0.807	2.08
456503		460	2.0	59.7	<0.002	0.09	0.26	40.9	1	0.6	104.0	0.23	<0.05	0.33	0.753	1.16
456504		340	2.9	1.9	<0.002	0.01	0.26	35.2	1	0.6	117.5	0.19	<0.05	0.27	0.579	0.04
456505		530	4.9	31.4	0.011	3.07	0.17	28.4	2	0.9	63.8	0.72	0.10	1.91	0.641	0.34
456506		310	7.8	145.0	0.008	2.02	0.36	15.1	3	1.6	19.8	0.79	0.10	9.54	0.358	1.10
456507		260	15.1	167.5	0.014	3.00	0.78	16.1	3	1.6	22.7	0.90	0.10	9.39	0.385	1.33
456508		240	12.4	174.5	0.011	3.25	0.86	15.9	3	1.7	13.3	0.99	0.06	10.15	0.355	1.53
456509		1090	10.3	39.6	0.002	0.09	0.78	21.6	1	1.1	279	0.94	0.26	2.47	0.681	0.21
456510		280	12.3	156.5	0.012	3.84	0.75	14.9	6	1.6	18.4	1.16	0.18	9.50	0.364	1.47
456511		330	7.4	76.4	0.016	2.00	0.24	15.7	4	2.0	19.2	1.07	0.11	8.42	0.390	0.65
456512		520	2.2	20.5	<0.002	0.82	0.32	1.5	1	0.6	67.3	0.25	<0.05	0.77	0.069	0.04
456513		610	0.9	18.1	<0.002	0.22	0.29	1.3	1	0.6	27.8	0.15	<0.05	0.54	0.053	<0.02
456514		520	0.8	17.7	<0.002	0.18	0.26	1.3	1	0.6	24.4	0.17	<0.05	0.63	0.051	0.02
456515		530	2.6	21.2	<0.002	2.42	0.40	1.4	1	0.6	45.1	0.17	0.13	0.83	0.045	0.02
456516		60	0.7	0.6	<0.002	<0.01	0.05	0.2	1	<0.2	82.9	<0.05	<0.05	0.07	0.005	<0.02
456517		470	12.7	82.0	0.022	8.21	0.68	9.3	7	1.1	43.5	1.14	0.55	3.52	0.313	1.23
456518		620	7.8	58.0	0.037	6.33	0.13	12.7	7	0.4	20.4	3.20	0.48	9.15	0.424	1.02
456519		1130	8.0	113.0	0.047	7.59	0.15	7.4	8	0.6	21.2	1.60	0.52	11.65	0.187	2.18
456520		70	1.9	2.7	0.003	0.98	0.19	0.3	2	0.4	61.4	0.05	<0.05	0.16	0.006	0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 26-JUIL-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163680**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456501		0.1	365	0.7	26.3	66	44.5
456502		0.1	382	0.7	26.8	82	39.6
456503		0.1	359	0.7	25.4	76	34.6
456504		0.1	280	0.4	20.7	78	37.2
456505		6.7	287	1.0	16.1	77	72.2
456506		5.1	222	1.9	12.8	135	72.8
456507		7.3	240	2.2	9.1	174	78.5
456508		6.7	255	2.4	10.7	214	83.4
456509		0.6	145	9.2	15.2	83	100.0
456510		8.3	299	2.1	11.5	151	93.2
456511		8.7	287	1.5	11.8	98	90.6
456512		0.5	36	0.2	9.9	47	23.6
456513		0.3	39	0.2	9.4	45	15.7
456514		0.3	38	0.2	9.7	62	15.3
456515		0.5	30	0.2	9.9	92	14.1
456516		0.2	2	0.1	2.1	6	1.4
456517		9.5	203	1.2	13.7	96	105.5
456518		11.6	311	1.0	21.6	64	213
456519		12.9	303	0.7	22.7	27	128.0
456520		0.7	12	0.1	6.9	12	4.5



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **26-JUIL-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163680**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada			
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP21	Hg-MS42	ME-MS61	



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 27-JUIL-2018  
Compte: MINVIR

## CERTIFICAT VO18163682

Projet: Kan  
Bon de commande #: KANDH18-027  
Ce rapport s'applique aux 19 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 4-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163682**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456521		2.47	0.001	0.05	0.31	3.7	30	1.16	0.03	5.75	0.09	12.00	15.7	9	5.58	177.5
456523		2.40	0.001	0.06	0.11	46.9	10	1.11	0.02	8.77	0.15	13.20	15.6	3	1.74	195.0
456524		2.23	<0.001	0.04	5.87	4.1	140	2.39	0.01	1.03	0.06	8.92	33.6	172	19.05	3.2
456525		2.36	<0.001	0.16	1.34	1.1	120	1.57	0.01	3.32	0.09	13.80	12.6	17	19.40	35.9
456526		4.03	<0.001	0.11	6.67	4.4	<10	0.42	<0.01	5.01	0.11	11.40	46.4	163	0.31	101.0
456527		4.21	<0.001	0.06	6.79	4.6	<10	0.47	0.01	6.18	0.13	9.42	47.4	170	0.62	125.5
456528		4.32	<0.001	0.06	6.77	12.5	<10	0.41	0.01	6.39	0.11	9.10	47.9	158	0.26	129.5
456529		0.07	0.688	0.17	7.28	20.4	330	1.49	0.13	4.48	0.18	49.1	43.5	193	1.89	55.7
456530		4.18	<0.001	0.09	6.97	42.2	<10	0.45	0.01	5.37	0.11	9.76	52.9	165	0.18	126.0
456531		3.49	0.001	0.07	6.76	12.5	20	0.57	0.04	4.21	0.11	10.15	44.1	158	1.39	75.2
456532		1.87	<0.001	<0.01	2.52	2.7	90	1.82	<0.01	4.37	0.18	11.75	19.5	51	18.05	7.5
456533		2.31	<0.001	<0.01	0.58	2.1	60	1.08	<0.01	6.87	0.26	13.10	7.1	4	12.05	1.4
456534		3.04	<0.001	0.01	0.21	1.2	10	1.96	<0.01	2.71	0.16	14.80	6.8	5	2.48	1.0
456535		2.73	<0.001	0.02	0.28	3.2	20	1.71	0.02	2.37	0.15	13.10	6.9	5	3.19	19.4
456536		0.22	<0.001	<0.01	0.05	<0.2	20	0.07	<0.01	34.2	<0.02	0.96	0.5	2	0.08	1.3
456537		2.51	0.003	0.05	0.46	2.2	20	1.48	0.08	1.26	0.10	10.25	7.6	4	4.59	58.0
456538		2.40	0.004	0.04	0.64	3.6	60	0.89	0.06	6.43	0.27	16.20	6.0	14	12.85	44.1
456539		2.47	0.033	0.05	0.46	1.6	30	0.73	0.11	3.40	0.21	9.53	8.1	20	8.63	51.2
456540		2.40	0.001	0.04	1.93	3.2	100	1.13	0.05	2.39	0.16	23.3	11.8	43	30.9	40.5



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18163682**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
456521		23.3	1.48	0.07	0.2	0.067	0.165	0.16	7.2	0.2	1.14	11500	1.11	0.06	2.9	6.7
456523		18.90	0.80	0.06	<0.1	0.050	0.081	0.05	7.8	0.3	0.88	12600	0.12	0.02	0.6	2.5
456524		24.8	17.10	0.33	1.8	0.035	0.145	0.50	3.7	6.8	3.21	6460	0.45	0.30	4.4	77.6
456525		24.5	4.95	0.06	0.3	0.031	0.087	0.45	8.6	0.8	1.67	7640	0.28	0.23	1.4	13.0
456526		10.05	18.25	0.05	1.0	0.019	0.066	0.02	4.2	36.1	3.85	2030	0.26	1.36	4.2	81.4
456527		8.82	17.40	<0.05	0.8	0.042	0.062	0.06	3.4	33.1	4.17	1480	0.24	1.68	3.5	108.0
456528		8.83	16.65	0.05	0.8	0.032	0.068	0.02	3.3	32.2	4.26	1500	0.26	1.66	3.1	123.0
456529		7.32	20.5	0.10	3.7	0.028	0.067	0.89	22.1	14.5	2.94	943	1.80	1.70	19.1	142.0
456530		9.11	17.75	0.05	1.6	0.035	0.069	0.02	3.6	34.0	4.13	1630	0.24	1.91	3.3	128.0
456531		11.40	18.00	0.06	2.1	0.018	0.068	0.15	3.8	50.5	5.33	2010	0.48	0.66	2.8	98.1
456532		22.2	7.41	0.05	0.7	0.005	0.070	0.46	6.5	6.4	3.01	6430	2.45	0.20	2.8	32.4
456533		26.8	2.46	0.08	0.2	0.006	0.030	0.28	8.1	0.7	2.67	11350	0.26	0.14	1.5	5.3
456534		32.8	1.87	0.07	0.2	<0.005	0.005	0.14	9.3	0.5	2.83	8440	0.35	0.03	2.1	4.3
456535		32.3	2.07	0.08	0.1	0.010	<0.005	0.19	8.2	0.5	2.44	9310	0.12	0.04	2.1	3.8
456536		0.42	0.23	<0.05	<0.1	<0.005	<0.005	0.01	1.1	1.2	1.44	132	<0.05	0.02	0.2	<0.2
456537		30.0	2.06	0.08	0.1	0.024	0.007	0.31	6.3	0.5	2.25	7940	0.31	0.06	1.9	4.1
456538		19.65	2.49	0.06	0.2	0.026	0.010	0.35	9.1	0.5	1.90	11550	0.35	0.14	3.2	5.9
456539		20.3	2.40	0.06	0.2	0.036	0.007	0.26	5.4	0.5	1.40	13150	0.31	0.09	3.0	8.5
456540		21.9	7.22	0.07	0.9	0.034	0.025	0.60	12.2	1.9	1.89	10800	2.01	0.30	7.7	26.3





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163682**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456521		260	2.3	10.4	0.002	1.79	0.66	0.7	3	0.5	58.6	0.13	0.07	0.40	0.020	0.03
456523		500	2.2	3.3	<0.002	1.90	0.21	0.3	3	0.2	101.0	<0.05	0.08	0.13	<0.005	<0.02
456524		480	1.6	13.6	<0.002	0.44	1.33	35.9	1	1.5	15.7	0.24	0.08	0.24	0.712	0.09
456525		410	1.1	33.1	<0.002	0.21	0.82	5.2	1	0.7	36.3	0.12	<0.05	0.33	0.071	0.04
456526		490	2.1	0.8	0.003	0.02	0.37	44.1	1	1.3	77.8	0.26	<0.05	0.33	0.809	0.02
456527		420	2.7	4.4	0.002	0.07	0.30	40.3	1	0.7	111.5	0.22	<0.05	0.27	0.703	0.10
456528		420	2.4	1.1	<0.002	0.09	0.24	38.8	<1	0.7	115.0	0.21	<0.05	0.27	0.684	0.05
456529		1140	13.9	41.8	<0.002	0.02	1.00	20.0	<1	1.7	352	1.19	<0.05	4.94	0.905	0.18
456530		430	2.6	0.6	0.002	0.10	0.15	40.0	1	0.5	111.0	0.20	<0.05	0.30	0.702	0.02
456531		440	2.8	11.5	0.003	0.01	0.16	42.3	1	0.6	81.2	0.19	<0.05	0.27	0.646	0.16
456532		320	1.5	31.2	0.003	0.07	0.66	13.5	<1	0.5	71.2	0.16	<0.05	0.37	0.233	0.08
456533		420	2.0	19.9	<0.002	0.01	0.73	1.8	<1	0.4	110.5	0.08	<0.05	0.35	0.019	0.03
456534		600	1.2	5.2	<0.002	0.01	1.63	0.6	<1	0.4	42.8	0.08	<0.05	0.32	0.016	0.03
456535		460	1.4	6.5	<0.002	0.38	1.76	0.5	1	0.4	37.7	0.09	<0.05	0.28	0.017	0.03
456536		50	<0.5	0.6	<0.002	0.01	0.05	0.2	1	<0.2	81.9	<0.05	<0.05	0.05	0.006	<0.02
456537		380	2.1	9.5	<0.002	1.00	2.40	0.7	2	0.5	20.3	0.08	0.08	0.28	0.013	0.08
456538		800	2.7	20.8	<0.002	0.73	0.81	1.1	2	0.3	87.0	0.15	0.06	0.71	0.037	0.06
456539		330	3.4	14.2	<0.002	0.87	0.69	1.1	1	0.3	56.7	0.12	0.08	0.42	0.040	0.07
456540		590	2.5	46.6	0.002	0.44	1.09	4.8	1	0.6	38.4	0.45	0.05	1.85	0.144	0.07



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 27-JUIL-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163682**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
456521		0.6	21	0.2	15.3	33	11.3
456523		0.1	15	0.1	20.3	31	2.3
456524		0.2	334	2.5	15.8	78	62.0
456525		0.3	77	2.6	13.7	55	12.8
456526		0.1	379	1.6	25.0	100	28.4
456527		0.1	328	0.5	23.1	97	22.4
456528		0.1	326	0.4	19.4	97	24.8
456529		1.1	145	2.0	20.4	130	146.0
456530		0.1	343	0.2	9.6	98	33.1
456531		0.1	358	0.3	8.9	98	52.6
456532		0.4	123	0.1	14.8	46	26.6
456533		0.3	37	0.2	10.7	31	8.0
456534		0.3	16	0.3	14.5	41	7.6
456535		0.2	22	0.2	13.0	43	6.7
456536		0.1	1	<0.1	2.2	4	1.7
456537		0.2	24	0.2	11.1	50	6.5
456538		0.4	27	0.2	9.8	36	10.7
456539		0.3	31	0.2	7.4	32	11.2
456540		2.3	81	0.4	9.5	58	37.9



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **27-JUIL-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163682**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 27-JUIL-2018  
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## CERTIFICAT VO18163682

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Bon de commande #: KANDH18-027

Ce rapport s'applique aux 19 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 4-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163682**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456521		2.47	0.001	0.05	0.31	3.7	30	1.16	0.03	5.75	0.09	12.00	15.7	9	5.58	177.5
456523		2.40	0.001	0.06	0.11	46.9	10	1.11	0.02	8.77	0.15	13.20	15.6	3	1.74	195.0
456524		2.23	<0.001	0.04	5.87	4.1	140	2.39	0.01	1.03	0.06	8.92	33.6	172	19.05	3.2
456525		2.36	<0.001	0.16	1.34	1.1	120	1.57	0.01	3.32	0.09	13.80	12.6	17	19.40	35.9
456526		4.03	<0.001	0.11	6.67	4.4	<10	0.42	<0.01	5.01	0.11	11.40	46.4	163	0.31	101.0
456527		4.21	<0.001	0.06	6.79	4.6	<10	0.47	0.01	6.18	0.13	9.42	47.4	170	0.62	125.5
456528		4.32	<0.001	0.06	6.77	12.5	<10	0.41	0.01	6.39	0.11	9.10	47.9	158	0.26	129.5
456529		0.07	0.688	0.17	7.28	20.4	330	1.49	0.13	4.48	0.18	49.1	43.5	193	1.89	55.7
456530		4.18	<0.001	0.09	6.97	42.2	<10	0.45	0.01	5.37	0.11	9.76	52.9	165	0.18	126.0
456531		3.49	0.001	0.07	6.76	12.5	20	0.57	0.04	4.21	0.11	10.15	44.1	158	1.39	75.2
456532		1.87	<0.001	<0.01	2.52	2.7	90	1.82	<0.01	4.37	0.18	11.75	19.5	51	18.05	7.5
456533		2.31	<0.001	<0.01	0.58	2.1	60	1.08	<0.01	6.87	0.26	13.10	7.1	4	12.05	1.4
456534		3.04	<0.001	0.01	0.21	1.2	10	1.96	<0.01	2.71	0.16	14.80	6.8	5	2.48	1.0
456535		2.73	<0.001	0.02	0.28	3.2	20	1.71	0.02	2.37	0.15	13.10	6.9	5	3.19	19.4
456536		0.22	<0.001	<0.01	0.05	<0.2	20	0.07	<0.01	34.2	<0.02	0.96	0.5	2	0.08	1.3
456537		2.51	0.003	0.05	0.46	2.2	20	1.48	0.08	1.26	0.10	10.25	7.6	4	4.59	58.0
456538		2.40	0.004	0.04	0.64	3.6	60	0.89	0.06	6.43	0.27	16.20	6.0	14	12.85	44.1
456539		2.47	0.033	0.05	0.46	1.6	30	0.73	0.11	3.40	0.21	9.53	8.1	20	8.63	51.2
456540		2.40	0.001	0.04	1.93	3.2	100	1.13	0.05	2.39	0.16	23.3	11.8	43	30.9	40.5



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163682**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
456521		23.3	1.48	0.07	0.2	0.067	0.165	0.16	7.2	0.2	1.14	11500	1.11	0.06	2.9	6.7
456523		18.90	0.80	0.06	<0.1	0.050	0.081	0.05	7.8	0.3	0.88	12600	0.12	0.02	0.6	2.5
456524		24.8	17.10	0.33	1.8	0.035	0.145	0.50	3.7	6.8	3.21	6460	0.45	0.30	4.4	77.6
456525		24.5	4.95	0.06	0.3	0.031	0.087	0.45	8.6	0.8	1.67	7640	0.28	0.23	1.4	13.0
456526		10.05	18.25	0.05	1.0	0.019	0.066	0.02	4.2	36.1	3.85	2030	0.26	1.36	4.2	81.4
456527		8.82	17.40	<0.05	0.8	0.042	0.062	0.06	3.4	33.1	4.17	1480	0.24	1.68	3.5	108.0
456528		8.83	16.65	0.05	0.8	0.032	0.068	0.02	3.3	32.2	4.26	1500	0.26	1.66	3.1	123.0
456529		7.32	20.5	0.10	3.7	0.028	0.067	0.89	22.1	14.5	2.94	943	1.80	1.70	19.1	142.0
456530		9.11	17.75	0.05	1.6	0.035	0.069	0.02	3.6	34.0	4.13	1630	0.24	1.91	3.3	128.0
456531		11.40	18.00	0.06	2.1	0.018	0.068	0.15	3.8	50.5	5.33	2010	0.48	0.66	2.8	98.1
456532		22.2	7.41	0.05	0.7	0.005	0.070	0.46	6.5	6.4	3.01	6430	2.45	0.20	2.8	32.4
456533		26.8	2.46	0.08	0.2	0.006	0.030	0.28	8.1	0.7	2.67	11350	0.26	0.14	1.5	5.3
456534		32.8	1.87	0.07	0.2	<0.005	0.005	0.14	9.3	0.5	2.83	8440	0.35	0.03	2.1	4.3
456535		32.3	2.07	0.08	0.1	0.010	<0.005	0.19	8.2	0.5	2.44	9310	0.12	0.04	2.1	3.8
456536		0.42	0.23	<0.05	<0.1	<0.005	<0.005	0.01	1.1	1.2	1.44	132	<0.05	0.02	0.2	<0.2
456537		30.0	2.06	0.08	0.1	0.024	0.007	0.31	6.3	0.5	2.25	7940	0.31	0.06	1.9	4.1
456538		19.65	2.49	0.06	0.2	0.026	0.010	0.35	9.1	0.5	1.90	11550	0.35	0.14	3.2	5.9
456539		20.3	2.40	0.06	0.2	0.036	0.007	0.26	5.4	0.5	1.40	13150	0.31	0.09	3.0	8.5
456540		21.9	7.22	0.07	0.9	0.034	0.025	0.60	12.2	1.9	1.89	10800	2.01	0.30	7.7	26.3



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456521		260	2.3	10.4	0.002	1.79	0.66	0.7	3	0.5	58.6	0.13	0.07	0.40	0.020	0.03
456523		500	2.2	3.3	<0.002	1.90	0.21	0.3	3	0.2	101.0	<0.05	0.08	0.13	<0.005	<0.02
456524		480	1.6	13.6	<0.002	0.44	1.33	35.9	1	1.5	15.7	0.24	0.08	0.24	0.712	0.09
456525		410	1.1	33.1	<0.002	0.21	0.82	5.2	1	0.7	36.3	0.12	<0.05	0.33	0.071	0.04
456526		490	2.1	0.8	0.003	0.02	0.37	44.1	1	1.3	77.8	0.26	<0.05	0.33	0.809	0.02
456527		420	2.7	4.4	0.002	0.07	0.30	40.3	1	0.7	111.5	0.22	<0.05	0.27	0.703	0.10
456528		420	2.4	1.1	<0.002	0.09	0.24	38.8	<1	0.7	115.0	0.21	<0.05	0.27	0.684	0.05
456529		1140	13.9	41.8	<0.002	0.02	1.00	20.0	<1	1.7	352	1.19	<0.05	4.94	0.905	0.18
456530		430	2.6	0.6	0.002	0.10	0.15	40.0	1	0.5	111.0	0.20	<0.05	0.30	0.702	0.02
456531		440	2.8	11.5	0.003	0.01	0.16	42.3	1	0.6	81.2	0.19	<0.05	0.27	0.646	0.16
456532		320	1.5	31.2	0.003	0.07	0.66	13.5	<1	0.5	71.2	0.16	<0.05	0.37	0.233	0.08
456533		420	2.0	19.9	<0.002	0.01	0.73	1.8	<1	0.4	110.5	0.08	<0.05	0.35	0.019	0.03
456534		600	1.2	5.2	<0.002	0.01	1.63	0.6	<1	0.4	42.8	0.08	<0.05	0.32	0.016	0.03
456535		460	1.4	6.5	<0.002	0.38	1.76	0.5	1	0.4	37.7	0.09	<0.05	0.28	0.017	0.03
456536		50	<0.5	0.6	<0.002	0.01	0.05	0.2	1	<0.2	81.9	<0.05	<0.05	0.05	0.006	<0.02
456537		380	2.1	9.5	<0.002	1.00	2.40	0.7	2	0.5	20.3	0.08	0.08	0.28	0.013	0.08
456538		800	2.7	20.8	<0.002	0.73	0.81	1.1	2	0.3	87.0	0.15	0.06	0.71	0.037	0.06
456539		330	3.4	14.2	<0.002	0.87	0.69	1.1	1	0.3	56.7	0.12	0.08	0.42	0.040	0.07
456540		590	2.5	46.6	0.002	0.44	1.09	4.8	1	0.6	38.4	0.45	0.05	1.85	0.144	0.07



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 27-JUIL-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163682**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
456521		0.6	21	0.2	15.3	33	11.3
456523		0.1	15	0.1	20.3	31	2.3
456524		0.2	334	2.5	15.8	78	62.0
456525		0.3	77	2.6	13.7	55	12.8
456526		0.1	379	1.6	25.0	100	28.4
456527		0.1	328	0.5	23.1	97	22.4
456528		0.1	326	0.4	19.4	97	24.8
456529		1.1	145	2.0	20.4	130	146.0
456530		0.1	343	0.2	9.6	98	33.1
456531		0.1	358	0.3	8.9	98	52.6
456532		0.4	123	0.1	14.8	46	26.6
456533		0.3	37	0.2	10.7	31	8.0
456534		0.3	16	0.3	14.5	41	7.6
456535		0.2	22	0.2	13.0	43	6.7
456536		0.1	1	<0.1	2.2	4	1.7
456537		0.2	24	0.2	11.1	50	6.5
456538		0.4	27	0.2	9.8	36	10.7
456539		0.3	31	0.2	7.4	32	11.2
456540		2.3	81	0.4	9.5	58	37.9





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **27-JUIL-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163682**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 26-JUIL-2018  
Compte: MINVIR

## CERTIFICAT VO18163685

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Bon de commande #: KANDH18-028

Ce rapport s'applique aux 19 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 4-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 26-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163685**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456541		2.28	0.001	0.04	1.14	6.6	70	1.20	0.06	1.64	0.13	17.55	10.1	33	22.5	51.3
456542		2.88	<0.001	0.02	0.97	3.6	70	1.44	0.02	2.95	0.23	12.60	9.6	17	21.5	49.9
456544		2.65	0.002	0.03	0.30	1.0	30	1.84	0.03	2.97	0.23	12.45	7.8	5	5.99	77.2
456545		2.22	0.586	0.04	0.73	0.9	60	1.40	0.02	4.33	0.27	11.05	7.6	4	14.15	62.1
456546		2.22	0.065	0.02	0.68	1.0	10	1.07	0.02	3.35	0.16	6.78	11.8	21	1.17	69.8
456547		3.63	0.002	0.05	6.55	26.5	10	0.63	0.01	5.95	0.08	10.50	44.3	156	1.06	96.8
456548		4.44	<0.001	0.05	6.81	10.8	<10	0.52	0.01	6.43	0.15	8.98	46.8	154	0.64	124.5
456549		0.07	2.54	0.48	6.73	12.6	320	1.28	0.18	4.78	0.11	42.5	53.6	317	0.74	82.7
456550		5.03	0.001	0.05	7.24	12.2	10	0.63	0.02	6.88	0.15	10.25	51.4	165	0.32	135.0
456551		4.52	<0.001	0.03	6.55	22.3	10	0.36	0.01	6.62	0.09	8.01	47.9	139	0.25	66.9
456552		4.67	<0.001	0.05	5.72	24.9	10	0.41	0.01	7.04	0.13	7.75	44.0	131	0.30	82.7
456553		4.51	<0.001	0.08	7.82	14.7	400	1.74	0.03	2.76	0.10	24.9	42.2	156	1.07	273
456554		4.71	<0.001	0.05	8.29	1.5	270	1.74	0.02	1.41	0.09	59.9	27.1	108	1.66	207
456555		4.87	<0.001	0.06	7.14	5.6	30	0.61	0.01	6.04	0.10	14.85	44.8	72	2.60	124.5
456556		0.29	<0.001	0.01	0.21	<0.2	30	0.09	0.02	32.0	<0.02	1.55	1.7	3	0.14	6.3
456557		4.65	<0.001	0.05	6.71	5.5	10	0.66	0.01	5.75	0.08	14.35	40.7	73	0.67	111.0
456558		4.33	<0.001	0.02	7.83	4.8	60	1.28	0.01	3.80	0.03	34.7	35.3	92	4.64	40.9
456559		4.78	0.001	0.04	7.21	8.0	30	0.85	0.02	5.74	0.09	17.70	46.8	73	2.20	123.0
456560		4.73	<0.001	0.04	7.10	7.4	20	0.58	0.02	6.79	0.08	16.80	45.8	68	1.04	111.5



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 26-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163685**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
456541		20.3	4.58	0.05	1.0	0.028	0.024	0.46	8.8	0.8	1.48	15400	1.21	0.23	7.8	15.1
456542		20.1	3.33	0.06	0.3	0.027	0.027	0.46	6.7	0.7	1.98	9280	0.81	0.21	3.1	14.4
456544		30.9	2.21	0.08	0.1	0.013	0.010	0.16	7.7	0.3	2.27	10600	0.21	0.06	1.7	3.5
456545		24.4	2.76	0.10	0.1	0.035	0.020	0.39	6.8	0.4	2.10	8490	0.32	0.14	1.7	3.0
456546		19.70	2.63	0.09	0.2	0.007	0.016	0.07	4.3	2.6	1.79	4890	0.37	0.01	1.4	9.9
456547		9.25	18.50	0.07	1.2	0.020	0.074	0.09	4.2	40.5	3.90	1500	0.28	1.58	4.0	85.0
456548		8.96	18.00	0.08	1.2	0.023	0.072	0.05	3.4	34.7	4.33	1500	0.28	1.50	3.8	124.0
456549		7.43	19.75	0.12	3.6	0.043	0.061	0.98	20.9	9.6	5.48	1030	3.35	1.97	29.4	355
456550		9.47	18.95	0.08	1.2	0.044	0.077	0.04	4.0	20.5	4.76	1440	0.32	1.40	4.0	155.0
456551		8.10	15.80	0.08	0.8	0.016	0.059	0.03	3.1	31.6	4.50	1460	0.28	1.36	3.0	162.5
456552		7.08	14.30	0.07	0.7	0.029	0.054	0.04	2.9	23.9	3.77	1330	0.27	1.13	2.8	133.0
456553		9.81	22.8	0.10	1.4	0.133	0.062	1.25	11.6	32.5	3.04	1880	1.88	1.52	7.9	110.0
456554		9.30	22.7	0.12	2.0	0.121	0.038	1.06	31.9	22.9	1.71	3580	2.60	2.62	9.6	55.6
456555		10.40	21.5	0.10	1.9	0.031	0.103	0.29	5.9	22.2	3.51	1860	0.45	1.71	5.9	58.3
456556		0.36	0.66	0.11	0.1	<0.005	0.005	0.03	1.5	2.4	3.11	221	0.05	0.11	0.2	1.8
456557		9.44	19.55	0.08	2.1	0.023	0.094	0.10	5.5	13.9	3.38	2150	0.33	2.40	5.4	53.9
456558		8.76	22.3	0.09	1.9	0.009	0.058	0.44	16.6	18.4	2.64	1420	3.11	3.57	7.1	56.2
456559		10.65	21.4	0.08	2.1	0.015	0.097	0.22	7.1	17.1	3.41	1720	0.45	2.18	6.2	58.5
456560		10.60	21.3	0.09	1.9	0.022	0.091	0.13	6.7	11.8	3.28	1720	0.37	1.75	5.9	56.2



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 26-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18163685**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456541		450	2.2	35.2	<0.002	0.63	0.59	3.1	1	0.5	28.0	0.56	0.07	1.86	0.106	0.07
456542		400	2.1	33.3	<0.002	0.53	0.83	2.2	1	0.5	52.3	0.14	0.05	0.91	0.046	0.06
456544		580	2.0	10.0	<0.002	0.69	1.29	0.6	1	0.5	50.8	0.07	<0.05	0.30	0.012	0.02
456545		430	2.2	24.2	<0.002	0.63	1.13	1.0	1	0.5	74.2	0.07	<0.05	0.25	0.012	0.05
456546		290	1.9	2.6	<0.002	0.67	0.62	3.7	1	0.3	58.0	0.05	0.06	0.13	0.066	<0.02
456547		430	3.2	7.6	0.002	0.06	0.14	41.7	1	0.6	112.0	0.23	<0.05	0.35	0.755	0.12
456548		420	2.1	3.9	0.003	0.09	0.32	38.8	1	0.8	87.5	0.23	<0.05	0.32	0.709	0.08
456549		1850	5.2	31.0	<0.002	0.03	0.37	21.8	1	1.4	476	1.64	0.07	3.03	1.045	0.07
456550		440	4.4	1.7	0.003	0.13	1.36	40.6	1	0.8	230	0.23	<0.05	0.34	0.713	0.04
456551		340	1.4	1.3	0.002	0.01	0.32	31.8	<1	0.6	82.5	0.18	<0.05	0.24	0.555	0.02
456552		330	1.8	1.8	0.002	0.03	0.37	29.1	<1	0.5	96.0	0.16	<0.05	0.23	0.507	0.03
456553		360	3.0	28.5	0.004	1.17	0.60	28.5	2	0.7	61.5	0.54	<0.05	4.38	0.538	0.39
456554		370	3.0	44.3	0.004	1.01	0.75	19.5	1	0.6	47.3	0.67	0.05	8.82	0.424	0.38
456555		600	1.7	20.4	0.004	0.04	0.30	46.7	1	1.1	123.0	0.34	<0.05	0.60	0.971	0.24
456556		70	<0.5	1.3	<0.002	0.03	0.09	1.0	1	<0.2	81.2	<0.05	<0.05	0.09	0.021	0.02
456557		570	1.1	4.9	0.002	0.12	0.37	40.4	<1	1.0	93.8	0.32	<0.05	0.55	0.861	0.05
456558		540	1.7	23.1	0.004	0.08	0.30	30.1	<1	0.9	70.6	0.47	<0.05	4.73	0.659	0.35
456559		630	1.4	14.2	0.002	0.15	0.40	45.0	1	0.9	113.0	0.37	<0.05	1.04	0.946	0.15
456560		640	1.9	7.2	0.003	0.13	0.50	44.5	1	0.8	176.0	0.35	<0.05	0.61	0.970	0.07



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 26-JUIL-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18163685**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456541		1.2	66	0.5	10.9	44	42.7
456542		0.7	43	0.1	10.4	88	11.9
456544		0.3	23	0.2	15.5	84	5.9
456545		0.2	26	0.1	10.6	55	4.8
456546		0.2	33	0.1	9.7	43	7.6
456547		0.1	356	0.5	11.5	81	39.4
456548		0.1	333	0.6	20.8	91	26.7
456549		0.7	142	3.7	20.8	103	133.5
456550		0.1	336	0.6	23.6	95	42.0
456551		0.1	267	0.4	18.3	84	25.0
456552		0.1	244	0.4	16.9	73	19.4
456553		2.7	302	1.2	15.7	108	42.5
456554		4.1	220	1.2	17.5	79	60.3
456555		0.2	430	0.5	31.4	83	60.0
456556		0.2	7	0.2	2.8	5	2.1
456557		0.2	384	0.5	29.0	46	64.7
456558		1.7	307	0.5	21.3	29	60.6
456559		0.4	415	0.8	31.0	48	67.8
456560		0.2	428	0.8	31.9	60	62.0



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **26-JUIL-2018**  
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**CERTIFICAT D'ANALYSE VO18163685**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



ALS Canada Ltd.  
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North Vancouver BC V7H 0A7  
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www.alsglobal.com/geochemistry

À: **MINIÈRE OSISKO INC.**  
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**BUREAU 200**  
**QUEBEC QC G1K 7R1**

Page: 1  
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plus les pages d'annexe  
Finalisée date: 23-JUIL-2018  
Compte: MINVIR

## CERTIFICAT VO18163688

Projet: Kan

Bon de commande #: KANDH18-029

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 4-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
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**CERTIFICAT D'ANALYSE VO18163688**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456561		4.79	0.004	0.06	6.95	3.6	20	0.44	0.01	6.35	0.08	15.15	40.1	65	0.96	178.5
456562		5.34	<0.001	0.07	7.00	3.9	40	0.47	0.01	6.70	0.08	13.15	41.1	89	1.52	111.0
456563		4.44	<0.001	0.06	7.03	16.4	10	0.38	0.01	6.98	0.13	9.59	47.4	155	0.19	120.0
456564		4.82	<0.001	0.05	7.33	24.9	10	0.36	0.01	6.75	0.12	8.86	57.0	170	0.19	124.5
456565		4.99	<0.001	0.06	6.99	21.2	10	0.29	0.01	6.17	0.12	8.43	52.8	164	0.21	144.0
456566		4.95	<0.001	0.06	7.11	22.1	20	0.31	0.01	6.36	0.13	7.66	52.6	184	0.26	136.0
456567		4.81	<0.001	0.06	7.07	37.7	20	0.30	0.01	6.24	0.14	7.28	56.1	183	0.36	141.5
456568		4.88	0.001	0.07	7.22	35.2	20	0.40	0.01	6.08	0.15	7.91	52.2	184	0.61	143.0
456569		0.07	7.86	1.27	6.04	31.8	300	0.85	0.45	2.91	0.10	29.6	39.6	322	0.64	111.0
456570		4.73	0.001	0.05	6.93	30.7	20	0.33	0.01	6.73	0.11	7.93	52.1	150	0.55	124.0
456571		4.35	<0.001	0.03	7.29	23.5	30	0.37	0.01	7.01	0.11	9.73	52.3	159	0.52	100.0
456572		4.24	<0.001	0.09	7.35	15.4	20	0.46	0.01	7.02	0.09	10.25	45.8	156	0.43	53.6
456573		5.14	<0.001	0.06	7.21	16.4	20	0.50	0.04	6.56	0.14	11.40	46.1	160	0.61	122.0
456574		4.76	<0.001	0.04	6.91	7.7	130	0.86	0.05	5.51	0.12	12.25	46.3	108	6.25	133.0
456575		4.55	0.001	0.08	6.76	6.3	160	0.88	0.02	4.14	0.11	12.25	48.0	85	7.08	147.0
456576		0.24	<0.001	<0.01	0.12	0.3	10	0.06	<0.01	32.5	<0.02	0.99	1.0	2	0.09	3.5
456577		4.44	0.003	0.20	7.36	29.5	100	1.00	0.21	5.36	0.18	19.50	72.3	94	5.24	637
456578		4.40	<0.001	0.05	7.46	15.2	80	0.73	0.07	6.70	0.20	16.50	43.6	84	4.69	55.1
456579		4.25	<0.001	0.09	6.97	11.6	40	0.58	0.04	5.56	0.16	10.40	43.4	82	1.55	91.7
456580		4.55	0.001	0.12	7.02	15.8	20	0.52	0.03	5.81	0.13	11.20	47.4	79	0.74	104.0



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Page: 2 – B  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18163688**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
456561		10.00	17.95	0.06	2.0	0.025	0.087	0.15	5.5	10.5	3.05	1560	0.49	1.68	4.9	47.8
456562		9.69	18.55	0.06	1.6	0.024	0.093	0.22	4.8	12.0	3.30	1540	0.24	1.49	4.9	60.6
456563		8.81	16.55	0.05	1.1	0.028	0.075	0.05	3.4	13.6	4.32	1400	0.21	1.78	3.4	131.5
456564		9.24	16.50	0.06	0.6	0.040	0.070	0.05	3.1	15.8	5.26	1430	0.22	1.67	3.2	203
456565		9.09	14.90	0.06	1.0	0.037	0.063	0.06	3.0	15.9	5.06	1390	0.21	1.64	2.9	201
456566		8.84	15.65	0.05	0.8	0.033	0.060	0.08	2.7	14.6	4.93	1360	0.23	1.84	2.9	191.5
456567		8.67	14.70	0.05	0.7	0.041	0.060	0.08	2.6	14.6	5.05	1340	0.16	1.84	2.6	202
456568		8.87	15.80	0.07	0.6	0.034	0.064	0.12	2.8	17.4	5.01	1310	0.22	1.71	2.8	205
456569		5.44	14.55	0.08	2.4	0.145	0.045	1.05	15.0	13.4	3.90	728	5.76	1.18	16.6	245
456570		8.69	15.00	0.06	1.1	0.020	0.062	0.11	2.8	22.0	4.90	1340	0.20	1.52	2.8	205
456571		9.15	16.65	0.05	0.7	0.032	0.065	0.16	3.5	15.1	4.56	1420	0.21	1.16	3.4	154.0
456572		9.07	17.25	0.07	1.7	0.023	0.072	0.11	3.5	14.2	4.36	1410	0.13	1.67	3.8	126.0
456573		9.48	17.15	0.06	1.3	0.013	0.077	0.13	4.1	14.5	4.28	1360	0.28	1.70	3.7	116.5
456574		9.51	18.75	0.05	1.3	0.011	0.094	0.85	4.6	21.1	3.56	2290	0.29	1.83	4.7	86.4
456575		9.92	18.75	0.07	1.3	0.011	0.104	1.09	4.6	29.7	3.71	2420	0.30	1.51	4.9	96.9
456576		0.18	0.34	0.06	0.1	<0.005	0.006	0.02	1.1	1.2	1.22	108	<0.05	0.04	0.1	1.1
456577		8.56	19.00	0.07	1.6	0.031	0.068	0.61	7.8	16.6	1.81	2560	0.67	3.30	7.3	86.9
456578		8.95	19.75	0.07	1.2	0.008	0.104	0.58	6.0	22.3	2.71	3410	0.21	2.48	5.0	79.5
456579		9.38	17.40	0.05	1.0	0.025	0.079	0.31	3.9	15.5	3.71	1810	0.23	2.13	4.4	94.6
456580		9.56	17.85	0.06	1.0	0.018	0.085	0.13	4.0	13.8	3.66	1600	0.21	1.84	4.5	96.9



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18163688**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456561		570	1.7	7.7	0.003	0.14	0.40	39.6	1	0.7	153.0	0.31	<0.05	0.53	0.946	0.09
456562		550	1.6	12.8	0.002	0.07	0.44	41.2	1	0.7	160.5	0.31	<0.05	0.45	0.908	0.12
456563		420	1.3	1.9	0.002	0.02	0.44	37.4	1	0.6	135.5	0.21	<0.05	0.27	0.692	0.02
456564		390	1.5	1.7	0.002	0.02	0.48	35.6	1	0.6	153.5	0.20	<0.05	0.26	0.665	<0.02
456565		380	1.1	2.1	0.002	0.02	0.35	34.5	1	0.5	133.5	0.19	<0.05	0.25	0.653	0.02
456566		340	1.4	3.0	0.003	0.05	0.38	33.8	1	0.5	165.0	0.18	<0.05	0.22	0.621	0.04
456567		330	1.4	3.8	<0.002	0.02	0.35	33.2	1	0.4	152.0	0.16	<0.05	0.19	0.600	0.04
456568		350	1.6	6.0	<0.002	0.04	0.34	34.1	1	0.5	154.0	0.19	<0.05	0.22	0.626	0.07
456569		1080	9.2	37.0	<0.002	0.08	0.74	19.3	1	1.0	273	0.91	0.23	2.34	0.664	0.18
456570		350	1.2	5.7	<0.002	0.12	0.27	32.1	1	0.5	94.3	0.18	<0.05	0.24	0.631	0.05
456571		430	1.9	8.3	<0.002	0.12	0.43	37.1	1	0.7	176.5	0.22	<0.05	0.30	0.699	0.06
456572		430	1.8	5.7	<0.002	0.05	0.38	38.4	<1	0.5	148.5	0.24	<0.05	0.34	0.736	0.05
456573		470	2.3	6.9	0.002	0.04	0.42	39.0	1	0.6	160.0	0.24	<0.05	0.32	0.759	0.07
456574		550	2.0	40.2	0.002	0.07	0.24	37.3	1	0.8	127.5	0.29	<0.05	0.48	0.853	0.55
456575		610	1.3	44.9	0.003	0.03	0.17	37.4	<1	0.8	74.3	0.31	<0.05	0.41	0.886	0.75
456576		70	<0.5	0.9	<0.002	<0.01	0.05	0.5	1	<0.2	82.5	<0.05	<0.05	0.06	0.012	<0.02
456577		380	2.6	47.3	0.007	1.09	0.14	25.0	3	0.6	76.2	0.56	0.08	5.03	0.576	0.40
456578		600	2.0	43.4	<0.002	0.04	0.18	41.3	<1	0.6	96.8	0.33	<0.05	0.51	0.916	0.45
456579		500	2.1	11.4	<0.002	0.06	0.25	34.8	1	0.5	140.0	0.27	<0.05	0.35	0.806	0.21
456580		500	2.5	5.2	0.002	0.08	0.34	36.8	1	0.6	156.5	0.28	<0.05	0.40	0.820	0.08



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18163688**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456561		0.2	411	0.7	29.5	62	58.9
456562		0.1	413	0.9	29.4	65	57.0
456563		0.1	332	0.6	22.9	89	32.0
456564		0.1	317	0.6	21.6	97	19.0
456565		0.1	314	0.5	20.4	96	18.6
456566		0.1	303	0.5	18.9	92	20.5
456567		0.1	293	0.5	17.8	90	23.4
456568		0.1	307	0.5	19.7	90	23.8
456569		0.5	143	9.2	14.7	82	96.4
456570		0.1	300	0.5	19.4	91	20.2
456571		0.1	333	0.6	23.8	94	28.0
456572		0.1	344	0.6	25.6	76	50.6
456573		0.1	360	0.5	25.3	85	46.7
456574		0.2	395	0.5	25.8	80	55.9
456575		0.2	411	0.5	24.8	79	57.6
456576		0.1	5	<0.1	2.3	3	1.9
456577		1.2	299	0.5	21.9	65	59.9
456578		0.2	415	0.5	29.0	74	48.6
456579		0.1	371	0.4	23.5	77	36.1
456580		0.1	370	0.4	25.1	80	36.6



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Page: **Annexe 1**  
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**CERTIFICAT D'ANALYSE VO18163688**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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## CERTIFICAT VO18163690

Projet: Kan

Bon de commande #: KANDH18-031

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 4-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
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WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
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ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18163690**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456601		4.37	<0.001	0.22	6.82	23.6	50	0.38	0.05	5.58	0.15	9.89	44.3	134	0.31	166.5
456602		4.35	<0.001	0.06	6.55	32.2	30	0.37	0.01	7.25	0.09	8.98	39.0	131	0.31	126.0
456603		4.34	0.001	0.18	6.54	10.9	50	0.47	0.04	6.26	0.08	9.17	46.2	141	0.62	141.5
456604		4.16	0.003	0.23	6.99	398	130	0.81	0.16	4.12	1.54	8.82	48.4	143	0.71	176.0
456605		4.95	0.006	0.31	6.34	449	130	0.77	0.31	4.39	5.01	8.69	45.0	133	0.72	185.5
456606		4.39	0.001	0.36	6.90	25.4	240	0.89	0.05	5.96	0.60	10.20	53.3	141	1.37	188.5
456607		4.24	<0.001	0.18	6.33	18.6	140	0.68	0.02	6.53	0.19	10.40	53.7	134	0.83	188.5
456608		4.39	<0.001	0.06	6.35	47.3	120	0.87	0.01	7.41	0.16	9.35	45.2	133	0.88	113.5
456609		0.07	2.55	0.47	7.00	12.7	330	1.31	0.18	5.00	0.09	43.8	54.9	326	0.77	85.1
456610		4.38	0.024	0.06	5.74	57.7	20	0.36	0.01	7.05	0.09	7.68	47.2	121	0.31	133.5
456611		3.83	<0.001	0.16	6.50	40.0	70	0.48	0.01	6.49	0.07	9.32	35.3	138	0.68	142.0
456612		2.91	0.041	1.41	5.41	104.5	110	1.15	0.33	0.76	4.03	53.4	31.4	66	2.65	218
456613		4.81	0.090	2.08	5.90	102.5	100	1.27	0.44	0.54	4.72	54.8	27.8	78	3.06	198.5
456614		4.55	0.048	1.77	5.66	126.5	140	1.16	0.37	0.43	4.62	56.6	31.2	70	2.93	142.5
456615		4.69	0.073	1.83	5.96	139.5	140	1.29	0.40	0.17	3.50	47.9	31.4	71	3.08	112.0
456616		0.24	0.001	0.01	0.06	<0.2	20	0.06	0.01	32.9	0.02	0.98	0.8	2	<0.05	1.6
456617		5.20	0.039	1.71	5.42	110.5	80	1.38	0.43	0.33	5.54	54.8	34.9	80	2.99	207
456618		5.00	0.040	1.45	5.21	136.5	70	1.26	0.42	0.45	6.11	50.4	35.5	71	2.78	147.0
456619		4.24	0.030	0.98	5.02	111.0	140	1.16	0.26	0.51	7.15	58.4	38.8	69	2.52	175.5
456620		4.34	0.023	1.34	6.70	67.9	160	1.69	0.30	0.37	3.81	60.8	27.8	81	3.75	239



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
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**CERTIFICAT D'ANALYSE VO18163690**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
456601		9.30	18.40	0.07	1.7	0.006	0.076	0.22	4.1	64.4	3.47	1110	0.82	2.25	1.3	94.0
456602		7.66	17.35	0.06	1.5	<0.005	0.065	0.24	3.5	60.9	3.25	1260	0.28	1.93	1.2	86.1
456603		8.26	16.75	0.07	1.6	<0.005	0.049	0.44	3.6	68.5	3.36	1220	0.32	1.31	1.2	122.0
456604		10.45	19.35	0.09	1.6	0.062	0.180	0.56	3.4	96.3	4.31	1440	0.28	0.77	0.9	91.8
456605		11.05	18.25	0.09	1.5	0.145	0.386	0.56	3.5	87.5	4.35	1850	0.43	0.59	1.0	84.0
456606		9.38	18.70	0.09	1.8	0.013	0.092	1.10	4.1	65.4	3.52	1910	0.51	0.91	1.3	95.2
456607		9.05	16.90	0.07	1.5	0.009	0.076	0.69	4.4	50.8	2.74	1400	1.07	1.58	1.3	100.5
456608		7.70	17.05	0.07	1.5	0.007	0.068	0.79	3.8	65.1	3.26	1740	0.28	0.77	1.6	113.5
456609		7.70	20.0	0.11	3.7	0.064	0.063	1.01	21.8	9.4	5.71	1080	3.49	2.04	30.6	369
456610		8.12	15.10	0.06	1.0	<0.005	0.062	0.28	3.0	75.9	3.83	1360	0.22	0.77	1.5	136.0
456611		8.86	17.60	0.07	1.2	<0.005	0.073	0.64	3.7	77.9	3.80	1420	0.39	0.75	1.7	93.0
456612		19.05	19.10	0.17	3.1	0.153	0.191	1.98	29.2	21.8	0.95	401	25.5	0.14	8.5	168.5
456613		19.00	22.3	0.18	4.3	0.168	0.236	2.29	27.2	28.7	1.12	338	25.7	0.15	16.4	173.0
456614		18.35	20.3	0.17	3.6	0.211	0.217	2.05	31.1	24.2	0.96	301	26.8	0.12	12.5	139.0
456615		18.25	20.8	0.16	3.7	0.193	0.155	2.20	25.5	24.3	0.84	212	26.8	0.13	14.0	124.5
456616		0.18	0.28	0.16	<0.1	<0.005	<0.005	0.01	1.2	1.1	2.15	107	0.12	0.02	0.1	0.6
456617		21.5	19.60	0.19	3.6	0.194	0.156	2.25	26.5	21.2	0.69	305	26.3	0.13	12.6	201
456618		19.90	19.30	0.19	3.2	0.237	0.171	1.95	26.6	22.1	0.84	366	27.1	0.11	10.1	142.5
456619		19.20	17.90	0.16	3.1	0.152	0.165	1.73	32.8	22.1	0.95	544	26.7	0.10	9.1	151.0
456620		17.00	23.9	0.18	4.7	0.121	0.128	2.66	30.5	25.2	0.93	453	30.9	0.15	13.6	167.5





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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18163690**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456601		360	8.6	7.0	0.003	1.81	0.54	42.6	1	0.5	92.7	0.08	0.16	0.34	0.216	0.34
456602		360	6.3	7.9	0.002	0.61	0.36	41.1	1	0.3	94.8	0.08	<0.05	0.27	0.222	0.36
456603		380	16.1	13.9	0.002	1.99	0.65	38.8	1	0.6	109.0	0.07	0.13	0.30	0.212	0.69
456604		360	19.1	14.1	0.003	2.21	1.59	44.1	2	1.5	79.1	0.05	0.26	0.26	0.172	0.91
456605		330	34.0	18.8	0.002	2.45	2.20	39.0	3	1.8	67.2	0.06	0.31	0.28	0.195	0.98
456606		380	138.5	39.2	0.002	2.26	0.91	42.7	1	1.5	100.0	0.08	0.17	0.33	0.244	1.88
456607		350	10.4	24.8	0.003	2.18	0.50	37.2	1	0.6	105.5	0.07	0.13	0.43	0.202	1.10
456608		360	4.8	27.1	0.002	0.63	0.33	38.2	1	0.7	124.0	0.09	<0.05	0.28	0.286	1.20
456609		1950	5.4	32.1	<0.002	0.04	0.38	22.4	<1	1.4	497	1.67	0.11	3.15	1.090	0.08
456610		310	4.3	8.3	0.002	0.41	0.33	35.1	1	0.3	101.5	0.09	<0.05	0.23	0.272	0.38
456611		370	7.9	20.2	0.002	0.75	0.39	41.4	1	0.6	98.8	0.10	<0.05	0.29	0.314	1.11
456612		280	52.2	64.1	0.028	>10.0	8.19	10.9	7	3.0	34.3	0.60	1.04	4.52	0.114	4.36
456613		360	73.6	53.5	0.030	>10.0	12.80	10.9	7	3.9	34.0	1.21	1.40	4.58	0.163	5.04
456614		290	67.5	69.4	0.031	>10.0	11.05	10.6	6	3.3	28.2	0.92	1.18	5.19	0.136	4.63
456615		290	74.1	67.7	0.030	>10.0	12.30	11.3	6	3.6	24.6	0.99	1.36	4.46	0.170	4.97
456616		50	0.6	0.6	<0.002	0.04	0.09	0.2	1	<0.2	80.1	<0.05	<0.05	0.08	0.005	0.02
456617		330	63.6	55.5	0.031	>10.0	9.24	10.5	10	3.4	31.0	0.79	1.14	4.16	0.152	4.88
456618		300	62.8	58.8	0.029	>10.0	9.05	10.8	7	3.6	30.4	0.68	1.20	4.34	0.131	4.23
456619		260	43.9	62.5	0.028	>10.0	5.46	10.5	9	3.1	30.2	0.64	0.72	4.54	0.126	3.60
456620		330	51.4	74.3	0.035	>10.0	6.42	12.4	7	4.4	36.1	1.03	0.78	5.26	0.147	5.44



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18163690**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456601		0.3	310	0.3	4.2	138	71.9
456602		0.1	301	0.7	4.7	106	43.1
456603		0.2	290	0.5	3.3	99	49.8
456604		0.1	334	0.7	3.5	584	49.3
456605		0.2	295	0.7	3.4	1520	46.2
456606		0.2	318	0.8	4.5	318	52.4
456607		0.5	283	0.5	5.0	132	49.4
456608		0.2	297	0.9	5.1	154	46.3
456609		0.7	149	3.7	21.3	107	137.5
456610		0.1	265	0.2	3.7	89	31.2
456611		0.2	320	0.4	4.9	98	45.8
456612		18.2	277	0.9	12.2	1020	101.5
456613		17.8	260	1.2	13.4	1240	140.0
456614		18.7	270	1.2	14.7	1220	117.5
456615		20.3	291	1.4	13.6	877	120.0
456616		0.2	1	<0.1	2.1	6	1.5
456617		23.3	291	1.3	10.9	1200	121.0
456618		20.4	293	1.1	12.1	1390	107.5
456619		18.9	281	1.1	13.7	1510	107.0
456620		21.1	330	1.4	13.6	854	156.0



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **26-JUIL-2018**  
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**CERTIFICAT D'ANALYSE VO18163690**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
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## CERTIFICAT VO18163691

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Bon de commande #: KANDH18-032

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 4-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456621		4.38	0.031	1.73	6.19	109.5	190	1.31	0.34	0.25	3.52	72.0	40.3	78	2.63	110.5
456622		4.75	0.033	1.32	6.77	98.9	150	1.53	0.34	0.57	4.46	49.9	34.5	86	3.14	108.5
456623		4.32	0.029	1.20	6.53	26.2	180	1.66	0.20	0.99	6.39	55.6	13.7	86	3.23	293
456624		4.23	0.017	1.44	7.32	7.1	280	1.91	0.35	0.36	5.66	86.3	3.8	99	3.36	255
456625		4.36	0.013	0.96	8.07	6.7	300	2.09	0.15	0.53	6.07	56.4	8.7	99	3.55	282
456626		4.69	0.035	2.55	5.30	10.4	160	1.25	0.46	0.41	8.60	88.3	7.7	62	2.75	426
456627		3.16	0.009	0.79	8.62	22.1	330	2.43	0.12	0.37	2.63	85.5	20.8	113	3.96	179.0
456628		3.02	0.004	0.31	10.25	13.2	410	3.91	0.03	0.56	4.47	89.2	8.1	139	6.01	106.0
456629		0.06	7.73	1.36	6.18	35.2	320	1.00	0.47	3.01	0.07	31.5	39.9	343	0.64	116.5
456630		2.22	0.092	2.15	3.97	27.7	150	1.62	0.36	0.95	30.6	44.4	16.7	84	3.87	327
456631		1.81	0.075	1.74	1.54	60.9	30	0.31	0.33	3.83	7.62	41.6	27.2	36	0.88	385
456632		2.26	0.074	1.85	1.18	392	20	0.28	0.36	3.60	7.72	38.2	15.3	38	0.71	350
456633		2.17	0.056	1.63	1.89	197.0	60	0.59	0.35	3.29	8.95	48.0	33.3	37	1.44	257
456634		2.42	0.053	1.61	2.15	84.9	90	0.86	0.30	2.24	8.12	38.1	9.8	37	1.88	309
456635		2.30	0.073	1.96	2.01	63.9	110	1.01	0.37	2.58	11.80	43.5	25.0	46	2.38	342
456636		0.23	0.003	0.01	0.05	0.7	10	0.07	<0.01	33.1	0.03	1.00	0.5	2	<0.05	1.8
456637		2.26	0.063	1.49	1.83	63.7	80	0.79	0.30	2.85	11.10	43.5	27.9	40	1.77	277
456638		2.40	0.057	1.17	1.41	71.2	60	0.58	0.26	4.50	9.04	33.8	38.6	39	1.16	189.0
456639		2.04	0.070	1.51	2.21	77.0	130	1.19	0.36	2.51	10.30	44.4	15.0	43	2.39	240
456640		2.15	0.074	1.67	2.55	58.7	190	1.80	0.40	1.52	13.10	50.3	20.3	48	3.26	259



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 28-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163691**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
456621		16.00	21.0	0.14	3.6	0.184	0.124	2.22	39.3	25.9	0.87	294	27.3	0.15	12.5	118.0
456622		14.20	20.3	0.12	3.3	0.236	0.108	2.61	25.8	24.7	0.95	440	27.2	0.19	10.4	116.0
456623		17.50	16.85	0.14	3.1	0.096	0.094	2.54	31.8	21.4	0.98	744	33.3	0.18	7.7	218
456624		15.05	21.4	0.14	4.4	0.078	0.104	2.83	49.5	25.2	0.86	312	39.3	0.20	12.5	187.5
456625		13.35	21.3	0.14	3.5	0.092	0.124	3.21	31.8	20.3	0.70	388	28.3	0.51	7.8	174.5
456626		22.8	17.35	0.15	3.8	0.133	0.167	2.05	48.7	19.7	0.69	357	59.8	0.12	8.1	321
456627		13.00	25.6	0.16	5.5	0.039	0.096	3.20	45.1	32.8	0.88	334	13.60	0.56	14.7	156.5
456628		6.14	30.9	0.21	6.6	0.075	0.115	4.51	48.6	39.1	0.89	521	14.05	0.34	23.2	68.7
456629		5.61	15.30	0.12	2.4	0.155	0.045	1.07	15.7	16.8	4.04	747	5.98	1.19	16.8	252
456630		18.65	10.75	0.17	1.5	0.425	0.185	1.68	29.5	16.5	0.67	727	149.0	0.07	2.0	230
456631		19.65	4.70	0.13	0.9	0.134	0.050	0.17	25.7	20.0	2.20	5990	107.0	0.01	2.0	201
456632		20.8	3.93	0.14	0.7	0.123	0.044	0.14	24.1	14.8	2.10	6790	90.6	0.01	1.5	218
456633		18.25	5.96	0.14	1.0	0.127	0.041	0.37	29.3	21.2	1.97	5600	119.0	0.02	1.9	170.5
456634		19.35	6.82	0.14	1.0	0.128	0.037	0.48	23.2	24.1	1.71	4360	111.0	0.02	1.5	197.5
456635		20.8	6.21	0.15	1.1	0.172	0.049	0.61	27.0	16.7	1.58	4770	138.0	0.02	2.3	216
456636		0.21	0.23	0.07	<0.1	<0.005	<0.005	0.01	1.2	1.0	2.34	148	0.29	0.03	0.1	0.4
456637		18.30	5.59	0.12	0.9	0.145	0.041	0.40	26.7	22.4	1.73	5090	112.0	0.01	1.8	173.5
456638		16.40	4.18	0.10	0.7	0.156	0.036	0.25	20.9	18.8	2.32	8440	93.6	0.01	1.5	122.5
456639		15.85	6.81	0.11	1.1	0.159	0.043	0.62	26.7	23.6	1.70	5070	127.0	0.02	1.8	141.0
456640		15.45	7.87	0.13	1.3	0.178	0.052	0.88	31.0	24.0	1.16	3170	153.0	0.04	1.8	154.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 28-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163691**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456621		280	55.1	73.6	0.029	>10.0	7.58	9.6	6	3.6	28.8	0.90	1.02	6.78	0.139	3.95
456622		340	56.7	73.7	0.029	>10.0	8.72	13.6	7	2.7	41.6	0.64	1.02	4.58	0.211	4.31
456623		450	58.6	85.2	0.041	>10.0	3.88	13.3	12	2.1	50.6	0.45	0.34	4.49	0.172	4.03
456624		440	93.6	92.9	0.048	7.89	3.92	15.2	8	2.6	41.4	0.82	0.38	7.74	0.200	4.18
456625		360	39.9	98.0	0.027	7.36	2.76	16.5	7	2.2	59.4	0.41	0.28	4.60	0.250	4.40
456626		410	72.6	73.5	0.062	>10.0	7.92	8.0	10	2.2	31.7	0.57	0.75	7.01	0.097	3.41
456627		390	22.1	96.0	0.017	6.96	2.14	19.3	5	3.0	70.4	0.78	0.30	6.89	0.265	4.76
456628		460	10.6	137.0	0.015	3.23	1.20	23.4	5	3.7	81.6	1.23	0.13	7.18	0.481	6.46
456629		1110	9.1	38.1	<0.002	0.09	0.78	20.4	1	1.0	284	0.92	0.24	2.32	0.685	0.19
456630		1030	60.6	73.3	0.148	>10.0	11.05	8.8	19	1.7	40.1	0.14	0.66	4.26	0.076	3.54
456631		3260	50.8	9.2	0.049	9.77	9.67	3.7	17	0.4	84.9	0.12	0.66	2.07	0.035	0.62
456632		3980	56.6	8.2	0.053	>10.0	10.35	2.8	19	0.3	76.2	0.09	0.77	1.59	0.029	0.61
456633		3130	55.5	19.0	0.050	9.40	10.35	4.2	17	0.6	79.8	0.13	0.69	2.50	0.036	1.04
456634		1830	52.7	24.7	0.044	9.82	9.91	4.7	20	0.8	64.3	0.10	0.64	2.48	0.032	1.24
456635		2200	60.2	30.4	0.057	>10.0	11.50	4.8	22	0.9	67.3	0.14	0.73	2.77	0.042	1.59
456636		80	0.5	0.2	<0.002	0.03	0.07	0.2	1	<0.2	75.2	<0.05	<0.05	0.05	<0.005	<0.02
456637		2980	49.5	20.2	0.047	9.40	9.49	3.9	17	0.7	70.2	0.12	0.57	2.40	0.039	1.08
456638		3510	44.1	12.9	0.052	7.81	7.69	2.7	13	0.4	97.1	0.10	0.48	1.75	0.031	0.73
456639		1980	55.5	30.5	0.049	8.23	10.55	4.8	14	0.8	74.5	0.13	0.65	2.81	0.038	1.58
456640		1140	68.2	43.6	0.057	8.61	12.00	6.0	16	1.1	52.8	0.12	0.69	3.52	0.039	2.10



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 28-JUIL-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163691**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
456621	0.1	15.7	264	1.0	14.1	978	141.0
456622		17.0	340	1.3	11.8	1050	131.0
456623		19.3	537	1.4	12.4	1200	120.0
456624		23.7	494	2.2	14.0	1020	166.5
456625		16.2	337	1.5	10.1	1140	139.0
456626		28.2	610	1.3	15.2	1660	142.0
456627		11.9	182	1.1	12.5	551	216
456628		13.3	225	1.6	14.5	837	257
456629		0.6	146	8.9	14.6	86	102.5
456630		60.0	1790	2.3	23.0	4670	60.7
456631		36.0	758	1.0	21.5	1260	40.4
456632		35.2	784	0.8	20.7	1220	32.3
456633		39.0	895	0.8	22.0	1360	44.8
456634		37.4	858	0.7	18.6	1220	44.1
456635		48.2	954	1.0	20.4	1750	48.7
456636		0.2	3	<0.1	2.1	7	1.4
456637		39.4	837	1.0	19.5	1650	41.6
456638		35.0	693	0.8	18.2	1360	31.9
456639		43.1	916	0.9	20.3	1480	47.5
456640		53.3	1040	0.9	18.6	1820	58.0





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **28-JUIL-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163691**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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**QUEBEC QC G1K 7R1**

Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 27-JUIL-2018  
Compte: MINVIR

## CERTIFICAT VO18163695

Projet: Kan

Bon de commande #: KANDH18-033

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 4-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163695**

Description échantillon	Méthode	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	élément	Poids reçu	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	unités	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LDI	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456641		2.20	0.080	1.80	2.10	271	140	1.34	0.41	2.41	16.30	43.3	34.5	44	2.08	296
456642		2.14	0.059	1.23	1.47	137.5	90	1.03	0.25	3.45	12.45	35.5	14.5	39	0.78	228
456643		2.57	0.037	0.71	1.34	221	20	0.92	0.16	3.65	5.06	43.2	14.6	28	0.25	165.5
456644		2.37	0.023	0.49	1.52	110.0	10	0.70	0.15	3.04	4.58	39.1	10.7	30	0.19	144.0
456645		2.25	0.067	0.61	2.29	338	10	1.15	0.24	2.70	18.50	46.6	16.8	40	0.25	157.5
456646		2.17	0.067	0.62	2.17	207	20	1.41	0.27	2.90	14.00	54.7	14.4	45	0.32	155.5
456647		2.25	0.049	0.41	1.71	30.2	50	1.03	0.17	3.51	9.32	37.2	15.2	36	0.37	161.5
456648		2.24	0.064	0.48	2.34	249	140	1.61	0.20	2.64	7.80	34.1	16.0	30	0.47	190.0
456649		0.07	0.669	0.22	7.29	20.9	330	1.38	0.13	4.53	0.21	50.0	43.1	195	1.93	55.2
456650		2.34	0.058	0.51	2.17	37.1	160	1.51	0.25	2.92	8.37	41.2	13.8	38	0.58	171.0
456651		2.11	0.032	0.61	2.01	78.1	50	0.75	0.20	2.88	2.62	35.3	23.5	32	0.47	220
456652		2.40	0.023	0.58	3.82	111.5	230	2.40	0.33	2.62	3.13	66.3	20.6	49	1.53	159.0
456653		2.35	0.045	1.02	5.78	2.0	210	3.60	0.50	0.50	11.35	79.3	51.0	70	3.11	319
456654		2.52	0.048	1.26	5.07	3.0	140	3.07	0.61	1.08	9.56	74.1	50.1	56	2.37	511
456655		2.49	0.036	0.82	5.76	5.7	260	3.51	0.42	0.60	8.76	83.0	42.0	64	3.05	251
456656		0.23	0.004	<0.01	0.07	0.3	20	0.09	0.01	34.5	0.03	1.13	0.6	2	<0.05	2.8
456657		4.29	0.020	0.44	2.67	195.5	10	0.39	0.21	3.13	0.81	47.7	16.5	46	0.23	97.5
456658		2.68	0.325	0.27	1.54	36.9	10	0.25	0.14	2.98	0.97	28.5	12.0	25	0.13	54.6
456659		2.03	0.048	0.25	1.34	36.7	10	0.24	0.13	3.42	0.48	34.3	9.3	23	0.17	42.5
456660		2.26	0.209	0.38	1.77	106.0	<10	0.32	0.11	3.28	1.43	37.8	10.8	29	0.24	94.5



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18163695**

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456641		19.25	7.19	0.15	1.2	0.181	0.057	0.58	27.3	22.6	1.55	5280	134.5	0.03	3.9	170.5
456642		18.60	5.52	0.11	1.1	0.117	0.042	0.30	19.9	15.5	1.74	8290	66.8	0.07	3.6	123.5
456643		23.6	5.24	0.08	1.0	0.067	0.022	0.09	22.2	18.9	2.32	12350	32.7	0.12	2.5	66.9
456644		20.6	5.81	0.08	1.3	0.046	0.021	0.03	18.5	24.5	2.08	9840	29.8	0.08	2.5	43.3
456645		18.30	8.03	0.08	1.4	0.124	0.056	0.06	24.0	32.0	1.70	10200	49.7	0.23	3.1	55.6
456646		22.4	7.70	0.12	1.5	0.127	0.038	0.08	28.1	26.4	1.94	16900	52.8	0.27	4.3	50.0
456647		22.7	6.15	0.09	1.0	0.082	0.028	0.14	16.7	24.6	1.81	14350	33.1	0.12	1.8	46.6
456648		21.4	7.89	0.10	0.7	0.081	0.029	0.22	15.6	35.1	1.67	12100	25.0	0.10	1.5	53.1
456649		7.41	20.2	0.06	3.7	0.016	0.066	0.88	22.6	14.9	2.96	963	2.40	1.72	19.6	146.0
456650		21.4	7.42	0.10	1.0	0.078	0.039	0.31	19.6	27.2	1.71	13400	29.1	0.12	2.1	47.4
456651		20.4	6.99	0.08	0.9	0.035	0.025	0.28	14.8	27.0	1.82	12500	16.75	0.06	1.8	46.4
456652		14.35	11.95	0.09	2.1	0.053	0.047	1.06	29.2	41.2	1.78	6260	22.0	0.08	2.7	63.4
456653		14.90	16.50	0.12	3.2	0.083	0.086	2.40	34.9	42.7	1.00	887	5.32	0.12	2.5	106.0
456654		20.5	14.65	0.16	2.8	0.069	0.070	1.86	33.6	42.4	1.48	2030	8.60	0.11	1.7	142.5
456655		13.85	16.45	0.14	3.1	0.075	0.075	2.35	35.9	44.3	1.04	889	7.20	0.12	2.6	98.5
456656		0.17	0.23	<0.05	0.1	<0.005	<0.005	0.01	1.2	1.4	1.55	96	0.05	0.03	0.1	0.3
456657		20.4	7.92	0.09	1.5	0.026	0.029	0.11	23.2	40.2	2.29	4990	28.3	0.01	2.2	64.5
456658		19.30	5.07	0.07	0.8	0.022	0.026	0.03	11.5	28.8	1.79	9610	14.30	0.01	1.4	23.2
456659		22.9	4.63	0.06	0.8	0.010	0.026	0.02	13.8	25.6	2.19	14050	11.55	0.02	1.4	19.0
456660		22.9	6.07	0.07	0.9	0.029	0.030	0.11	16.9	23.6	2.03	14550	17.35	0.12	1.0	41.4



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163695**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456641		2270	56.7	28.3	0.062	>10.0	11.60	4.9	19	0.9	66.7	0.21	0.72	2.73	0.047	1.57
456642		2830	32.1	14.5	0.057	7.28	6.83	3.3	15	0.5	86.3	0.21	0.48	2.00	0.035	0.83
456643		3160	16.6	4.1	0.023	4.37	3.07	2.8	9	0.2	77.2	0.16	0.40	2.21	0.033	0.24
456644		2720	14.5	1.6	0.021	2.97	2.43	2.5	6	<0.2	62.1	0.16	0.32	2.41	0.032	0.12
456645		2140	18.7	2.9	0.036	3.40	3.00	4.1	9	0.2	61.3	0.20	0.55	3.34	0.049	0.17
456646		2550	20.3	4.3	0.041	2.86	3.17	4.3	10	0.2	67.3	0.27	0.55	3.81	0.052	0.23
456647		2360	11.8	8.3	0.020	3.20	1.53	3.5	7	0.3	78.2	0.12	0.30	2.59	0.054	0.33
456648		1640	12.3	15.5	0.019	3.66	2.05	3.9	9	0.9	64.0	0.09	0.44	2.50	0.046	0.57
456649		1170	14.1	37.0	<0.002	0.03	1.02	19.2	1	1.8	355	1.16	0.06	4.87	0.925	0.19
456650		2110	14.6	18.8	0.021	3.41	2.01	4.2	7	1.0	75.5	0.12	0.38	3.09	0.041	0.77
456651		1790	8.8	13.4	0.012	3.53	1.27	3.5	5	0.3	71.2	0.10	0.37	2.49	0.036	0.60
456652		1510	11.5	45.8	0.018	3.39	1.46	6.7	6	1.3	74.7	0.17	0.39	6.14	0.071	1.59
456653		930	20.3	99.5	0.025	6.63	2.29	11.6	16	2.4	35.1	0.15	0.52	9.87	0.117	3.29
456654		1860	21.0	79.2	0.022	9.03	3.39	9.9	9	2.0	53.7	0.10	0.47	8.90	0.080	2.68
456655		1010	16.1	97.5	0.022	6.36	2.31	11.1	12	2.5	41.1	0.14	0.34	9.61	0.107	3.31
456656		60	<0.5	0.5	<0.002	0.02	0.06	0.2	<1	<0.2	81.5	<0.05	<0.05	0.10	0.005	0.02
456657		1950	12.1	4.1	0.018	3.60	2.27	4.8	7	<0.2	81.0	0.15	0.26	3.81	0.048	0.22
456658		1580	8.4	1.3	0.013	2.25	0.89	3.0	4	<0.2	71.3	0.09	0.22	1.84	0.035	0.07
456659		1820	5.3	1.5	0.009	1.75	1.02	2.7	3	<0.2	72.7	0.09	0.24	1.87	0.038	0.07
456660		2030	9.0	3.8	0.015	3.22	1.17	3.4	6	<0.2	79.3	0.07	0.22	2.50	0.023	0.18



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 27-JUIL-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163695**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
456641		46.6	962	0.8	20.0	2050	51.1
456642		27.2	609	0.4	18.3	1560	47.8
456643		15.1	299	0.2	17.2	750	38.9
456644		14.0	286	0.2	15.2	721	47.4
456645		23.8	411	0.2	15.7	2380	53.9
456646		27.0	428	0.2	18.3	1940	58.8
456647		15.0	247	0.2	13.2	1320	38.8
456648		12.4	268	0.2	9.9	1120	29.0
456649		1.1	148	2.2	19.5	134	146.5
456650		14.6	254	0.2	12.2	1200	39.5
456651		8.5	187	0.2	10.3	551	38.1
456652		11.2	270	0.7	12.7	520	75.5
456653		8.1	371	1.4	12.8	1160	108.5
456654		10.0	274	0.9	12.1	968	97.6
456655		7.6	316	1.3	12.1	918	110.5
456656		0.2	2	<0.1	2.0	6	1.6
456657		12.8	279	0.2	14.0	408	67.9
456658		7.0	167	0.1	9.3	386	30.3
456659		6.3	135	0.1	9.8	272	28.2
456660		8.5	171	0.2	11.1	582	33.0



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **27-JUIL-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163695**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
 CRU-31 CRU-QC LOG-21 LOG-23  
 PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
 Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 27-JUIL-2018  
Compte: MINVIR

## CERTIFICAT VO18163698

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Bon de commande #: KANDH18-034

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 4-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163698**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
456661		2.78	0.019	0.55	1.97	317	<10	0.24	0.12	3.39	0.73	39.2	18.6	29	0.31	128.0
456662		2.24	0.012	0.72	1.96	230	<10	0.26	0.13	3.61	0.86	39.9	15.0	29	0.30	162.5
456663		2.27	0.019	0.78	2.61	486	10	0.46	0.15	3.47	9.68	40.5	15.2	37	0.57	186.0
456664		2.33	0.030	1.03	2.81	1030	20	0.49	0.19	3.55	6.79	50.0	34.6	38	0.63	246
456665		2.45	0.033	1.12	2.49	929	20	0.47	0.18	4.01	6.91	41.5	21.4	39	0.59	219
456666		1.81	0.005	0.59	3.13	450	80	0.61	0.09	4.07	6.00	40.2	11.4	29	0.85	199.0
456667		1.59	0.040	1.90	1.78	63.9	50	0.42	0.31	2.47	20.8	38.2	47.2	43	0.91	363
456668		3.60	0.022	1.17	7.02	3.9	260	2.03	0.14	0.96	10.45	57.8	10.7	96	3.27	272
456669		0.07	2.55	0.41	6.84	12.0	320	1.23	0.20	4.84	0.11	45.0	55.3	323	0.67	84.3
456670		4.83	0.046	1.86	4.47	32.3	160	1.20	0.25	2.11	19.80	46.8	13.9	74	2.94	382
456671		4.43	0.128	1.80	3.71	303	120	1.00	0.50	2.94	14.95	39.6	29.6	65	2.73	82.7
456672		3.92	0.072	1.04	5.37	229	150	1.19	0.27	3.37	9.72	50.5	21.9	75	3.15	66.3
456673		3.33	0.092	1.29	5.95	189.5	150	1.38	0.40	0.64	6.63	49.3	24.5	89	3.54	59.4
456674		4.97	0.022	1.24	4.99	77.1	140	1.06	0.34	0.92	4.47	47.7	51.1	68	1.99	245
456675		5.15	0.019	1.87	5.73	0.9	190	1.82	0.27	0.82	3.57	55.0	3.1	90	2.50	371
456676		0.27	<0.001	<0.01	0.07	<0.2	10	0.08	0.01	33.6	0.02	1.17	0.6	2	<0.05	2.7
456677		2.68	0.016	1.68	6.68	1.1	220	2.45	0.31	0.13	2.89	56.5	3.6	98	2.80	261
456678		3.44	<0.001	0.24	0.23	37.1	10	0.32	0.02	3.57	0.05	12.25	9.6	7	0.07	49.6
456679		2.66	<0.001	<0.01	0.10	1.0	<10	0.26	0.01	1.38	0.03	5.12	3.0	5	<0.05	3.9
456680		2.37	0.043	0.03	0.14	1.2	<10	0.27	0.02	2.49	0.07	7.06	3.3	4	0.05	6.4



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163698**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456661		20.7	6.31	0.08	0.8	0.023	0.020	0.18	17.8	19.4	1.86	13950	19.10	0.24	1.2	59.9
456662		22.1	6.42	0.08	0.8	0.024	0.019	0.19	17.7	17.1	1.94	14950	17.60	0.28	1.0	78.7
456663		18.90	8.51	0.09	1.1	0.101	0.042	0.40	19.5	18.4	1.75	12700	35.6	0.31	1.1	104.5
456664		20.9	8.96	0.11	1.2	0.074	0.034	0.53	24.0	17.5	1.83	11850	36.7	0.28	1.3	141.5
456665		19.75	7.98	0.09	1.1	0.092	0.032	0.53	19.8	13.7	1.97	14050	35.3	0.24	1.4	134.0
456666		14.80	10.15	0.09	0.8	0.103	0.035	0.78	19.8	28.8	2.36	10700	22.3	0.11	1.5	116.0
456667		23.5	5.37	0.10	1.3	0.194	0.112	0.42	23.1	7.8	1.31	3580	98.7	0.03	1.7	234
456668		16.95	18.65	0.16	3.2	0.104	0.087	3.00	34.8	17.6	0.78	678	49.9	0.24	3.4	211
456669		7.47	18.80	0.07	3.4	0.055	0.059	0.99	22.4	9.3	5.51	1060	3.33	1.98	29.4	353
456670		20.3	11.70	0.15	1.8	0.209	0.112	2.02	30.9	12.7	1.13	792	92.6	0.09	2.5	272
456671		17.05	10.15	0.15	1.5	0.520	0.099	1.62	25.3	10.9	1.53	949	91.1	0.07	5.0	208
456672		13.60	14.25	0.14	2.3	0.354	0.084	2.33	31.3	13.2	1.73	1100	71.2	0.13	4.7	171.5
456673		13.35	15.95	0.17	2.4	0.401	0.080	2.55	31.7	17.4	0.73	275	91.8	0.14	3.6	169.0
456674		24.3	15.00	0.12	2.5	0.097	0.119	1.77	26.6	23.1	0.93	710	15.20	0.16	4.0	169.5
456675		22.8	17.25	0.13	2.6	0.077	0.121	2.45	30.7	22.8	0.94	694	16.95	0.11	4.4	195.0
456676		0.25	0.14	<0.05	0.1	<0.005	<0.005	0.01	1.4	1.2	2.29	171	0.15	0.03	0.2	0.7
456677		20.2	18.45	0.12	3.6	0.079	0.115	3.12	30.9	21.7	0.56	69	16.90	0.13	8.0	161.5
456678		25.7	0.86	0.05	0.2	<0.005	0.012	0.05	7.4	3.0	4.28	7190	0.75	0.01	1.2	19.1
456679		24.2	0.43	<0.05	0.1	<0.005	<0.005	0.01	3.3	2.3	3.31	8990	0.14	<0.01	0.4	2.1
456680		23.3	0.64	<0.05	<0.1	<0.005	<0.005	0.01	4.6	2.1	3.61	7370	0.28	<0.01	0.4	1.6



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18163698**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456661		1880	10.1	5.8	0.013	4.95	1.91	3.5	5	<0.2	82.7	0.09	0.26	2.56	0.029	0.33
456662		1810	11.5	6.1	0.014	6.18	2.55	3.7	7	<0.2	91.9	0.07	0.31	2.70	0.024	0.32
456663		1680	13.9	13.2	0.021	7.01	2.97	4.4	9	<0.2	104.0	0.08	0.35	3.22	0.029	0.69
456664		2260	16.6	17.9	0.021	9.21	3.75	5.3	11	0.2	105.0	0.08	0.49	3.70	0.032	0.88
456665		2290	16.0	17.6	0.018	7.52	4.24	4.8	11	0.3	107.0	0.08	0.56	3.20	0.031	0.87
456666		2000	10.2	25.0	0.019	5.54	1.97	4.9	6	0.6	81.9	0.08	0.18	2.31	0.028	1.26
456667		2040	30.4	14.8	0.076	>10.0	8.69	3.7	13	0.6	52.1	0.12	0.53	2.82	0.033	0.83
456668		440	18.7	92.9	0.057	9.09	4.58	15.7	14	2.0	47.0	0.17	0.24	4.89	0.123	4.31
456669		1840	5.1	31.5	<0.002	0.04	0.37	21.6	<1	1.4	480	1.68	0.09	2.88	1.060	0.07
456670		500	32.9	65.8	0.107	>10.0	8.22	10.7	19	1.3	51.8	0.16	0.35	4.18	0.083	3.38
456671		380	94.6	55.9	0.094	>10.0	21.0	9.8	16	1.0	60.6	0.34	0.86	3.76	0.102	3.46
456672		430	55.5	69.4	0.084	>10.0	11.90	12.3	14	1.3	70.2	0.31	0.51	4.40	0.123	4.20
456673		520	67.5	77.0	0.100	>10.0	15.10	13.4	13	1.6	34.4	0.24	0.81	4.56	0.132	4.64
456674		230	18.9	49.5	0.017	>10.0	3.85	10.5	10	2.3	37.6	0.26	1.01	4.13	0.098	2.91
456675		380	17.8	72.2	0.017	>10.0	6.12	13.3	7	3.2	33.4	0.22	0.93	4.32	0.142	3.74
456676		60	0.5	0.4	<0.002	0.03	0.07	0.2	1	<0.2	79.5	<0.05	<0.05	0.07	0.006	0.02
456677		390	23.7	88.9	0.022	>10.0	7.33	14.3	5	2.8	18.9	0.44	0.79	5.04	0.228	4.18
456678		110	1.8	1.6	0.002	2.21	0.33	0.6	1	<0.2	63.1	0.07	0.10	0.46	0.011	0.09
456679		60	<0.5	0.3	<0.002	0.23	0.08	0.2	1	<0.2	28.4	<0.05	<0.05	0.12	<0.005	0.02
456680		30	0.7	0.2	<0.002	0.41	0.09	0.1	1	<0.2	61.2	<0.05	<0.05	0.07	<0.005	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 27-JUIL-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18163698**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
456661	0.1	9.8	194	0.2	9.9	286	28.8
456662	0.1	9.1	181	0.3	10.0	272	32.3
456663	0.1	17.6	316	0.4	11.2	1370	43.2
456664	0.1	20.9	333	0.4	13.3	946	45.4
456665	0.1	18.6	301	0.4	14.2	974	45.0
456666	0.1	13.0	486	0.5	10.8	896	30.0
456667	0.1	37.2	545	0.9	17.7	2800	51.4
456668	0.1	25.1	579	3.0	11.4	1480	122.0
456669	0.1	0.7	147	3.4	21.4	105	141.5
456670	0.1	34.7	1060	2.4	11.0	2900	72.6
456671	0.1	37.7	938	2.6	14.0	2150	59.4
456672	0.1	31.5	748	2.4	14.8	1550	88.6
456673	0.1	39.0	1020	2.4	20.9	1160	93.2
456674	0.1	8.2	139	0.9	8.0	1010	90.8
456675	0.1	10.9	158	1.6	8.3	796	103.5
456676	0.1	0.2	1	<0.1	2.3	6	1.7
456677	0.1	16.1	196	2.1	9.7	595	141.5
456678	0.1	0.5	14	0.2	4.7	47	9.5
456679	0.1	0.1	8	0.1	3.8	18	2.8
456680	0.1	0.1	10	0.1	4.6	22	1.3



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **27-JUIL-2018**  
Compte: **MINVIR**

Projet: Kan

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## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 26-JUIL-2018  
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## CERTIFICAT VO18163708

Projet: Kan

Bon de commande #: KANDH18-035

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 4-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 26-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18163708**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456681		1.88	0.482	0.01	0.49	1.1	10	0.36	0.03	1.70	0.09	7.43	6.2	12	0.07	11.5
456682		2.57	0.035	<0.01	0.06	6.9	<10	0.42	0.02	1.60	0.04	6.47	3.7	3	0.15	1.6
456683		2.73	0.004	<0.01	0.07	1.4	<10	0.49	0.01	1.45	0.03	6.91	3.8	3	0.25	1.0
456684		2.74	<0.001	<0.01	0.06	0.7	<10	0.40	0.01	1.64	0.02	5.61	3.4	4	0.66	1.0
456685		2.59	0.002	<0.01	0.08	9.4	<10	0.68	0.02	1.83	0.03	6.21	4.4	5	0.36	1.4
456686		2.57	<0.001	<0.01	0.69	4.4	<10	0.94	0.02	1.96	0.04	16.85	8.5	22	<0.05	6.2
456687		2.16	<0.001	0.02	0.79	3.4	<10	0.70	0.03	1.72	0.04	13.90	9.8	24	<0.05	9.9
456688		2.49	<0.001	<0.01	0.61	5.2	<10	0.56	0.03	2.64	0.03	16.15	9.5	19	0.08	11.8
456689		0.07	7.87	1.31	6.18	34.1	320	0.93	0.50	2.97	0.09	31.8	42.6	328	0.64	112.5
456690		2.40	<0.001	<0.01	0.45	1.4	<10	0.62	0.02	1.85	0.03	12.55	5.8	13	<0.05	5.5
456691		2.52	<0.001	0.04	0.66	10.8	20	0.45	0.02	1.63	0.07	13.60	7.2	17	0.20	8.4
456692		4.32	0.004	0.43	6.12	4.6	240	4.02	0.14	0.58	0.93	49.6	15.1	73	3.16	107.5
456693		3.11	0.036	1.10	7.27	61.5	240	1.85	0.27	0.60	2.87	66.5	44.1	93	3.61	128.5
456694		4.43	0.052	0.68	8.33	76.4	260	1.74	0.23	1.64	2.37	68.2	22.4	88	4.03	81.7
456695		4.71	0.054	0.77	6.76	87.7	190	1.46	0.20	0.97	2.22	72.0	25.5	82	3.23	147.5
456696		0.24	0.003	0.02	0.16	2.0	260	0.09	0.03	20.0	0.08	2.63	0.8	1	0.54	2.2
456697		4.63	0.102	1.26	6.01	207	140	1.35	0.30	0.09	2.26	55.3	30.7	68	2.72	125.0
456698		3.85	0.038	0.55	9.24	55.4	280	1.64	0.18	0.40	2.77	61.4	17.6	117	3.87	98.4
456699		5.12	0.088	1.23	5.61	117.0	150	1.55	0.41	0.63	3.03	52.4	36.7	87	2.49	192.0
456700		5.76	0.113	1.25	6.33	216	160	1.31	0.32	0.07	3.92	43.8	26.6	79	2.78	124.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 26-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18163708**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456681		28.0	1.34	<0.05	0.2	0.007	0.007	0.01	4.8	2.6	4.19	8850	0.11	0.05	0.8	7.4
456682		28.0	0.31	0.05	0.1	<0.005	<0.005	<0.01	4.4	0.6	3.75	8700	0.18	<0.01	0.8	1.4
456683		28.9	0.37	0.05	0.1	<0.005	<0.005	0.01	4.7	0.5	4.03	8820	0.07	<0.01	1.3	1.4
456684		25.7	0.30	0.05	<0.1	<0.005	<0.005	0.02	3.7	0.4	3.78	7600	0.17	0.01	0.8	1.3
456685		23.1	0.42	0.05	<0.1	<0.005	<0.005	0.01	4.0	0.7	3.72	7610	0.10	<0.01	1.0	1.8
456686		25.0	3.09	0.05	0.6	<0.005	0.015	<0.01	9.0	8.0	3.43	13050	0.46	<0.01	6.8	8.9
456687		21.1	3.60	0.05	0.5	<0.005	0.014	<0.01	7.5	8.5	2.86	11500	0.61	<0.01	4.9	12.6
456688		19.80	2.92	<0.05	0.5	<0.005	0.011	<0.01	8.8	5.5	2.98	12100	0.41	<0.01	4.5	12.3
456689		5.63	16.00	0.05	2.5	0.153	0.050	1.08	15.8	15.5	4.02	759	6.51	1.21	16.8	254
456690		20.9	1.92	0.05	0.4	<0.005	0.008	<0.01	6.8	4.1	2.81	12250	0.21	<0.01	3.9	7.3
456691		20.1	2.22	0.05	0.5	<0.005	0.013	0.15	7.2	5.7	2.69	11700	0.54	0.01	4.1	10.2
456692		12.90	20.4	0.13	1.7	0.012	0.062	3.05	26.0	29.6	1.23	456	9.13	0.09	4.5	78.2
456693		16.30	22.7	0.17	4.8	0.133	0.144	3.67	35.4	24.2	0.77	305	19.75	0.12	12.8	124.5
456694		10.75	22.2	0.17	3.6	0.174	0.117	4.18	39.9	22.7	1.14	451	18.85	0.15	10.1	111.0
456695		14.40	21.0	0.14	4.3	0.122	0.137	3.37	39.1	24.9	0.95	344	15.40	0.11	10.9	134.0
456696		0.24	0.55	0.15	0.1	<0.005	<0.005	0.08	1.4	15.8	14.30	329	0.19	0.04	0.4	1.8
456697		19.25	20.4	0.18	3.8	0.199	0.167	2.94	28.9	23.6	0.56	84	18.60	0.09	10.7	152.5
456698		11.10	25.9	0.20	5.3	0.105	0.176	4.74	32.2	25.8	0.70	171	16.30	0.15	14.1	110.0
456699		23.5	17.30	0.21	2.8	0.173	0.145	2.56	28.9	25.3	1.15	442	19.40	0.08	5.8	181.5
456700		21.2	19.25	0.19	3.3	0.200	0.207	3.09	22.9	23.2	0.55	67	21.2	0.10	9.6	185.5





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18163708**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456681		180	0.8	0.2	<0.002	0.35	0.33	3.0	1	<0.2	38.6	0.05	<0.05	0.12	0.047	<0.02
456682		150	0.6	0.2	<0.002	0.14	0.16	0.2	<1	<0.2	25.5	<0.05	<0.05	0.10	<0.005	<0.02
456683		250	<0.5	0.4	<0.002	0.06	0.11	0.1	<1	<0.2	22.6	0.06	<0.05	0.15	0.006	<0.02
456684		120	<0.5	0.7	<0.002	0.02	0.10	0.1	<1	<0.2	24.7	<0.05	<0.05	0.08	<0.005	<0.02
456685		210	0.6	0.6	<0.002	0.05	0.11	0.3	<1	<0.2	29.0	<0.05	<0.05	0.11	0.005	0.02
456686		500	0.8	0.1	<0.002	0.16	0.23	1.9	<1	0.2	22.9	0.31	<0.05	1.06	0.085	<0.02
456687		490	0.9	0.2	<0.002	0.26	0.31	2.3	1	0.3	15.8	0.29	0.06	0.91	0.087	<0.02
456688		600	0.9	0.5	<0.002	0.20	0.28	1.9	1	0.3	21.6	0.26	0.05	0.82	0.075	0.03
456689		1100	9.9	38.9	0.002	0.09	0.82	20.8	<1	1.0	283	0.98	0.20	2.49	0.682	0.19
456690		350	0.7	0.3	<0.002	0.10	0.26	1.3	1	0.2	16.9	0.24	0.05	0.67	0.064	0.02
456691		360	1.4	8.5	<0.002	0.79	0.47	1.9	1	0.2	29.1	0.25	<0.05	0.81	0.079	0.24
456692		290	17.6	118.0	0.011	6.33	4.40	11.2	3	1.9	33.6	0.18	0.15	6.52	0.125	2.64
456693		310	48.9	93.2	0.026	>10.0	11.55	14.5	5	3.5	37.3	0.83	0.62	6.47	0.224	4.16
456694		260	46.3	103.0	0.019	8.84	9.78	16.3	4	2.3	51.3	0.65	0.63	5.93	0.297	4.70
456695		220	50.7	84.9	0.019	>10.0	10.40	13.0	6	3.2	50.1	0.70	0.57	6.79	0.187	4.07
456696		20	6.0	2.4	<0.002	0.11	0.25	0.3	1	<0.2	157.5	<0.05	<0.05	0.22	0.009	0.12
456697		280	86.7	73.9	0.021	>10.0	19.55	9.0	6	4.1	13.5	0.81	1.10	5.65	0.163	4.02
456698		440	34.4	105.0	0.017	8.43	7.81	23.5	3	3.2	29.9	0.92	0.51	5.56	0.352	3.79
456699		270	67.4	70.4	0.017	>10.0	13.80	11.6	8	4.1	34.9	0.37	1.14	5.00	0.154	2.88
456700		270	88.9	74.6	0.029	>10.0	19.40	12.0	7	3.5	14.5	0.64	1.26	4.67	0.218	3.71



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 26-JUIL-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163708**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456681		0.1	27	0.3	6.5	78	4.5
456682		0.1	6	0.2	5.3	14	2.6
456683		0.1	6	0.2	7.3	10	3.5
456684		0.1	8	0.2	5.7	6	2.9
456685		0.1	8	0.2	6.0	6	2.7
456686		0.6	43	0.4	6.9	14	28.2
456687		0.6	56	0.3	6.6	17	22.4
456688		0.5	44	0.3	6.7	12	21.0
456689		0.6	144	9.7	14.8	83	98.6
456690		0.3	30	0.2	5.1	9	17.4
456691		0.6	47	0.4	5.0	45	20.1
456692		8.2	274	1.6	6.2	203	65.6
456693		15.0	221	1.4	13.8	736	181.5
456694		14.3	231	1.6	11.3	628	133.5
456695		11.1	175	1.2	12.7	626	163.0
456696		0.3	3	0.6	1.3	24	5.1
456697		12.4	205	1.2	11.3	732	143.0
456698		16.1	197	1.6	13.3	824	206
456699		10.7	184	1.4	10.2	766	107.0
456700		14.1	237	1.4	9.8	1100	132.5



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **26-JUIL-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18163708**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 27-JUIL-2018  
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## CERTIFICAT VO18168874

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-001

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
LOG-QC	Test QC sur échantillons pulpe
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168874**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457651		2.85	<0.001	0.07	0.10	1.9	<10	0.13	0.01	1.85	0.06	5.70	4.2	3	0.15	15.0
457652		2.25	<0.001	0.01	0.02	1.2	<10	0.19	<0.01	1.31	0.02	4.61	6.5	3	0.10	1.1
457653		2.34	<0.001	0.01	0.02	3.0	<10	0.26	0.01	1.31	0.03	7.59	8.4	3	0.09	1.0
457654		2.37	<0.001	0.01	0.03	3.6	<10	0.24	0.01	1.48	0.03	13.30	9.3	3	0.18	1.3
457655		2.59	<0.001	0.03	0.05	1.6	10	0.43	0.01	2.02	0.06	13.80	11.1	2	0.35	5.4
457656		1.51	0.002	0.01	0.02	2.2	10	0.21	<0.01	1.00	0.04	16.65	9.0	2	0.05	2.2
457657		2.46	0.004	0.03	0.02	17.0	10	0.12	0.01	0.82	0.04	14.95	9.9	2	0.06	2.2
457658		2.44	<0.001	0.01	0.02	1.2	<10	0.18	0.01	0.89	0.04	12.60	9.2	4	0.05	1.3
457659		0.06	2.53	0.45	6.72	11.7	320	0.99	0.15	4.79	0.08	40.7	49.2	316	0.61	81.8
457660		2.37	<0.001	0.01	0.02	4.9	<10	0.20	0.01	1.00	0.04	12.85	7.8	2	0.08	0.7
457661		2.48	<0.001	0.01	0.08	3.8	<10	0.45	0.01	0.93	0.02	7.87	9.1	4	1.09	0.9
457662		2.38	<0.001	0.01	0.04	10.7	<10	0.59	0.02	0.88	<0.02	5.20	6.6	4	0.89	1.0
457663		2.43	0.014	0.01	0.05	7.7	<10	0.60	0.02	1.15	<0.02	5.33	5.4	4	1.14	1.2
457664		2.67	0.028	<0.01	0.03	11.8	<10	0.50	0.01	1.85	0.02	4.44	4.3	2	0.80	0.6
457665		2.20	0.236	1.72	0.03	1.8	<10	0.44	<0.01	1.32	0.03	4.48	3.8	2	0.91	1.6
457666		0.29	<0.001	<0.01	0.05	0.4	60	0.05	<0.01	33.7	0.02	1.06	0.6	1	<0.05	2.0
457667		2.49	1.760	0.03	0.08	124.0	10	0.40	0.01	1.27	0.04	4.38	4.3	3	2.01	2.3
457668		2.53	<0.001	0.01	0.02	0.9	<10	0.80	0.01	1.19	<0.02	4.76	3.2	3	0.62	0.6
457669		2.66	0.001	0.01	0.02	17.0	<10	1.06	0.01	1.24	<0.02	4.10	3.7	3	0.52	0.6
457670		2.33	0.003	0.02	0.03	2.7	<10	0.75	0.01	1.13	<0.02	3.10	2.9	4	0.68	0.9



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168874**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457651		23.6	0.45	0.07	<0.1	<0.005	0.023	0.02	3.7	1.2	4.02	9130	0.16	<0.01	0.5	4.2
457652		24.9	0.16	0.07	<0.1	<0.005	<0.005	<0.01	3.2	0.4	3.92	11000	0.07	<0.01	0.6	0.9
457653		24.2	0.21	0.06	<0.1	<0.005	<0.005	0.01	5.0	0.5	3.72	16250	0.06	<0.01	0.7	1.0
457654		25.2	0.29	0.07	<0.1	<0.005	<0.005	<0.01	9.7	0.5	3.80	12900	0.07	<0.01	0.5	0.9
457655		25.3	0.31	0.07	<0.1	<0.005	0.010	0.01	9.9	1.0	3.73	9430	0.05	<0.01	0.4	2.5
457656		24.7	0.22	0.07	<0.1	<0.005	<0.005	0.01	11.8	0.5	3.35	8850	0.07	<0.01	0.3	0.8
457657		26.2	0.26	0.07	<0.1	0.009	<0.005	0.01	10.4	0.7	3.58	7220	0.06	<0.01	0.3	0.7
457658		27.3	0.21	0.08	<0.1	<0.005	<0.005	0.01	8.8	0.6	3.67	7700	0.10	<0.01	0.2	0.9
457659		7.33	17.15	0.11	3.0	0.049	0.058	0.96	20.3	7.5	5.48	1020	2.78	1.94	27.1	346
457660		27.5	0.23	0.08	<0.1	0.006	<0.005	<0.01	8.8	0.7	3.77	8120	0.07	<0.01	0.3	0.8
457661		27.6	0.56	0.08	0.1	0.007	<0.005	0.02	5.2	0.5	3.52	18600	0.06	0.01	1.7	1.4
457662		25.8	0.31	0.08	<0.1	0.008	<0.005	0.02	3.7	0.3	3.10	11550	0.06	0.01	0.8	1.4
457663		24.5	0.32	0.08	<0.1	0.007	<0.005	0.02	3.8	0.3	3.12	7940	0.07	0.01	0.8	1.3
457664		28.0	0.25	0.08	<0.1	0.007	<0.005	0.01	2.9	0.3	3.79	7540	<0.05	0.01	0.6	0.8
457665		28.0	0.22	0.07	<0.1	0.006	<0.005	0.02	3.2	0.3	3.55	4820	<0.05	0.01	0.3	0.6
457666		0.30	0.19	0.07	<0.1	<0.005	<0.005	0.01	1.2	1.0	2.22	193	<0.05	0.03	0.1	<0.2
457667		26.8	0.35	0.08	<0.1	0.022	<0.005	0.04	3.1	0.4	3.30	6620	0.05	0.01	0.4	0.6
457668		27.4	0.22	0.08	<0.1	<0.005	<0.005	0.01	3.4	0.3	3.41	4440	<0.05	<0.01	0.4	0.6
457669		26.6	0.20	0.08	<0.1	<0.005	<0.005	0.01	2.9	0.3	3.54	5040	0.09	<0.01	0.5	0.8
457670		23.4	0.24	0.06	<0.1	<0.005	<0.005	0.01	2.1	0.3	3.22	4390	0.05	0.01	0.5	0.9



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18168874**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457651		90	0.9	0.6	<0.002	0.94	0.11	0.2	1	<0.2	43.5	<0.05	0.08	0.07	<0.005	0.02
457652		90	<0.5	0.2	<0.002	0.05	0.07	0.1	<1	<0.2	21.3	<0.05	<0.05	0.03	<0.005	<0.02
457653		70	<0.5	0.3	<0.002	0.04	0.06	0.1	1	<0.2	18.2	<0.05	<0.05	0.04	<0.005	<0.02
457654		90	<0.5	0.2	<0.002	0.06	0.08	0.1	<1	<0.2	21.8	<0.05	<0.05	0.03	<0.005	<0.02
457655		80	0.8	0.8	<0.002	0.48	0.09	0.1	1	<0.2	45.9	<0.05	0.05	0.02	<0.005	0.02
457656		60	<0.5	0.3	<0.002	0.14	0.05	0.1	<1	<0.2	14.3	<0.05	<0.05	0.02	<0.005	<0.02
457657		40	<0.5	0.3	<0.002	0.17	0.05	0.1	<1	<0.2	11.8	<0.05	0.05	0.02	<0.005	<0.02
457658		50	<0.5	0.2	<0.002	0.08	0.06	0.1	<1	<0.2	12.8	<0.05	<0.05	0.01	<0.005	<0.02
457659		1820	4.5	28.5	<0.002	0.03	0.31	20.6	1	1.1	474	1.52	0.09	2.47	1.035	0.06
457660		50	<0.5	0.2	<0.002	0.02	0.05	0.1	<1	<0.2	14.2	<0.05	<0.05	0.02	<0.005	<0.02
457661		140	<0.5	0.8	<0.002	0.04	0.09	0.2	<1	<0.2	11.7	0.05	0.06	0.13	0.006	<0.02
457662		180	0.5	0.7	<0.002	0.05	0.08	0.1	<1	<0.2	7.8	<0.05	0.16	0.05	<0.005	<0.02
457663		210	0.6	0.8	<0.002	0.09	0.12	0.1	<1	<0.2	14.5	<0.05	0.13	0.07	<0.005	<0.02
457664		90	<0.5	0.6	<0.002	0.04	0.07	0.1	<1	<0.2	25.5	<0.05	<0.05	0.04	<0.005	<0.02
457665		70	<0.5	0.7	<0.002	0.15	<0.05	0.1	<1	<0.2	19.0	<0.05	<0.05	0.02	<0.005	<0.02
457666		70	0.5	0.2	<0.002	0.01	<0.05	0.2	2	<0.2	90.3	<0.05	<0.05	0.07	<0.005	<0.02
457667		110	1.1	1.6	<0.002	0.25	0.07	0.1	<1	<0.2	19.6	<0.05	0.24	0.03	<0.005	<0.02
457668		100	0.5	0.5	<0.002	0.04	<0.05	0.1	<1	<0.2	11.8	<0.05	<0.05	0.03	<0.005	<0.02
457669		50	<0.5	0.5	<0.002	0.02	0.34	0.1	<1	<0.2	10.1	<0.05	0.09	0.03	<0.005	<0.02
457670		30	0.5	0.6	<0.002	0.07	0.06	0.1	<1	<0.2	11.7	<0.05	<0.05	0.03	<0.005	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 27-JUIL-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18168874**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457651		0.1	9	0.1	3.8	35	3.1
457652		<0.1	5	0.1	3.7	11	2.4
457653		<0.1	5	0.2	4.2	11	1.9
457654		0.1	7	0.2	5.1	10	1.9
457655		<0.1	8	0.2	4.9	12	2.1
457656		<0.1	8	0.1	5.7	13	4.5
457657		<0.1	8	0.1	4.6	16	1.8
457658		<0.1	7	0.2	4.6	16	2.1
457659		0.6	146	2.8	19.3	103	134.0
457660		<0.1	9	0.2	5.1	12	2.9
457661		0.1	11	0.2	7.0	6	3.9
457662		<0.1	7	0.1	5.8	2	2.2
457663		<0.1	6	0.1	6.1	4	2.2
457664		<0.1	5	0.2	6.5	5	2.0
457665		<0.1	5	0.1	5.3	8	1.4
457666		0.1	1	<0.1	2.2	5	1.2
457667		<0.1	6	0.1	5.0	13	1.4
457668		<0.1	6	0.1	6.5	<2	1.2
457669		<0.1	5	0.1	6.3	<2	1.3
457670		<0.1	7	0.2	5.7	<2	1.6





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Page: **Annexe 1**  
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**CERTIFICAT D'ANALYSE VO18168874**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>LOG-QC</td> <td>PUL-31</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	LOG-QC	PUL-31	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
LOG-QC	PUL-31	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
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## CERTIFICAT VO18168877

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Bon de commande #: KANDH18-PRIORITY-002

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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 Finalisée date: 27-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18168877**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
457671		2.44	0.001	0.01	0.05	1.1	<10	0.62	0.01	1.21	<0.02	5.37	3.2	4	0.84	0.8
457672		2.59	0.001	0.01	0.03	2.4	<10	0.46	0.01	1.17	<0.02	4.58	2.8	5	0.56	0.7
457673		3.08	0.991	0.06	0.11	17.2	<10	0.50	0.01	1.60	0.04	6.19	3.3	5	1.26	2.1
457674		2.28	0.001	0.01	0.03	1.8	<10	0.77	0.01	1.18	<0.02	6.71	2.6	7	0.76	0.7
457675		2.38	<0.001	0.01	0.02	0.5	<10	0.82	<0.01	1.24	<0.02	6.52	2.7	25	0.60	0.6
457676		3.48	<0.001	0.04	0.57	12.4	10	0.70	0.02	1.15	0.20	16.70	6.7	17	2.03	5.5
457677		2.42	0.005	0.65	0.47	62.2	10	0.18	0.03	6.92	0.07	13.30	4.5	16	0.45	228
457678		2.68	0.002	0.35	0.30	139.0	<10	0.29	0.02	6.13	0.04	12.85	4.1	13	<0.05	115.0
457679		0.06	7.75	1.29	6.01	31.7	310	0.84	0.49	2.96	0.08	31.2	37.7	323	0.62	115.5
457680		2.32	<0.001	0.02	0.20	8.5	<10	0.42	0.04	4.39	0.02	11.45	2.8	18	<0.05	3.3
457681		2.67	0.001	0.01	0.09	4.9	<10	0.41	0.03	4.30	<0.02	6.96	1.7	16	<0.05	1.4
457682		2.49	0.001	0.01	0.17	4.7	10	0.66	0.03	7.58	<0.02	9.41	3.7	6	0.08	1.8
457683		2.33	<0.001	0.01	0.14	4.6	10	0.65	0.03	2.39	<0.02	14.25	3.5	10	0.16	1.7
457684		2.48	0.040	0.02	0.14	5.1	<10	0.72	0.03	4.27	<0.02	11.40	3.9	9	0.19	2.3
457685		2.44	0.001	0.02	0.26	7.8	<10	0.72	0.04	4.49	<0.02	10.30	5.3	11	0.05	3.0
457686		0.28	<0.001	0.01	0.13	0.8	200	0.09	0.04	19.10	0.07	1.63	0.8	1	0.47	2.0
457687		2.48	0.002	0.02	0.13	2.3	<10	0.58	0.03	6.59	<0.02	10.05	4.7	5	0.12	1.5
457688		2.65	0.001	0.01	0.27	1.7	<10	0.69	0.03	4.65	<0.02	14.55	6.5	8	<0.05	2.2
457689		2.58	<0.001	0.01	0.22	3.0	10	0.64	0.03	1.92	0.02	14.00	6.6	11	0.53	1.2
457690		2.46	0.002	0.01	0.04	0.5	<10	0.32	0.02	1.75	0.05	6.04	3.2	3	0.61	2.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
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**CERTIFICAT D'ANALYSE VO18168877**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457671		29.2	0.36	0.08	<0.1	<0.005	<0.005	0.02	3.8	0.4	3.80	9140	0.06	0.01	1.0	1.1
457672		25.1	0.28	0.08	<0.1	<0.005	<0.005	0.01	3.1	0.3	3.39	6850	0.07	<0.01	0.7	0.7
457673		26.3	0.55	0.08	<0.1	0.006	<0.005	0.02	4.4	0.6	3.59	6770	0.06	0.01	0.6	0.9
457674		25.0	0.24	0.07	<0.1	0.005	<0.005	0.01	4.6	0.3	3.34	7040	0.07	<0.01	0.7	0.8
457675		25.3	0.22	0.08	<0.1	<0.005	<0.005	0.01	4.4	0.3	3.49	6500	0.10	<0.01	0.4	0.9
457676		24.8	1.70	0.08	0.4	0.007	0.011	0.18	9.5	6.6	2.88	13050	0.26	<0.01	3.8	6.3
457677		16.65	2.34	0.07	0.2	0.021	0.020	0.17	7.4	6.1	4.23	4880	1.65	0.01	1.7	55.1
457678		19.25	1.91	0.07	0.2	0.012	0.016	0.01	7.7	5.1	4.08	5590	0.81	0.03	1.5	30.5
457679		5.54	14.15	0.09	2.2	0.140	0.046	1.05	15.9	14.5	3.97	725	6.08	1.17	15.3	250
457680		18.55	1.35	0.07	0.1	<0.005	<0.005	<0.01	6.9	2.5	3.48	4800	0.99	<0.01	1.0	5.5
457681		18.35	0.81	0.06	0.1	<0.005	<0.005	0.01	4.1	1.6	3.79	4690	0.28	<0.01	0.6	3.6
457682		19.80	1.38	0.08	0.1	<0.005	<0.005	0.01	5.5	2.3	4.52	5420	0.25	<0.01	1.9	4.0
457683		24.2	1.72	0.09	0.2	<0.005	<0.005	0.01	8.2	1.5	3.40	6960	0.18	<0.01	4.1	3.9
457684		21.9	0.57	0.08	0.1	<0.005	<0.005	0.01	6.6	1.1	3.45	6100	0.22	<0.01	1.3	4.3
457685		21.7	0.90	0.08	0.1	<0.005	0.005	<0.01	6.3	1.1	3.41	7800	0.33	<0.01	1.5	4.8
457686		0.23	0.47	0.26	0.1	<0.005	<0.005	0.06	0.9	15.0	12.95	360	0.07	0.04	0.3	0.7
457687		21.4	0.59	0.07	0.1	0.011	<0.005	<0.01	5.6	1.0	4.38	7310	0.17	<0.01	1.8	3.2
457688		22.9	1.04	0.09	0.2	<0.005	0.005	<0.01	8.5	1.2	3.87	9100	0.29	<0.01	3.1	4.8
457689		21.8	0.86	0.08	0.1	<0.005	0.005	0.02	8.2	1.4	3.10	7930	0.27	<0.01	3.3	5.1
457690		26.2	0.26	0.08	<0.1	<0.005	<0.005	0.01	3.8	0.5	3.99	6690	0.05	0.01	0.8	1.3



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18168877**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457671		260	<0.5	0.9	<0.002	0.01	<0.05	0.1	1	<0.2	16.2	<0.05	<0.05	0.09	0.005	<0.02
457672		140	<0.5	0.6	<0.002	0.02	<0.05	0.1	<1	<0.2	15.5	<0.05	<0.05	0.06	<0.005	<0.02
457673		150	0.5	1.4	<0.002	0.19	0.05	0.1	<1	<0.2	28.6	<0.05	0.05	0.05	<0.005	<0.02
457674		110	<0.5	0.8	<0.002	0.03	0.05	0.1	1	<0.2	15.5	<0.05	<0.05	0.04	<0.005	<0.02
457675		180	<0.5	0.6	<0.002	0.01	<0.05	0.1	<1	<0.2	14.0	<0.05	<0.05	0.04	<0.005	<0.02
457676		490	1.0	16.5	<0.002	0.24	0.21	1.4	1	<0.2	33.2	0.21	<0.05	0.72	0.057	0.25
457677		160	10.9	5.7	0.002	5.87	3.24	1.2	2	0.2	157.5	0.09	0.45	0.43	0.016	0.25
457678		200	5.6	0.3	<0.002	3.21	1.57	0.7	1	<0.2	75.6	0.09	0.28	0.34	0.010	0.02
457679		1080	11.5	36.9	0.002	0.08	0.73	19.3	1	0.9	275	0.87	0.24	2.32	0.662	0.18
457680		260	1.4	0.2	<0.002	0.21	0.18	0.5	1	<0.2	22.7	<0.05	<0.05	0.21	0.010	<0.02
457681		210	0.7	0.6	<0.002	0.06	0.21	0.2	1	<0.2	21.7	<0.05	<0.05	0.11	<0.005	0.02
457682		150	1.0	0.7	<0.002	0.10	0.16	0.4	1	<0.2	31.4	0.09	<0.05	0.21	0.009	0.03
457683		330	0.9	0.6	<0.002	0.06	0.18	0.2	1	<0.2	18.2	0.17	<0.05	0.34	0.007	0.03
457684		250	1.0	0.8	<0.002	0.13	0.14	0.4	1	<0.2	25.6	0.05	<0.05	0.18	0.009	0.04
457685		310	1.2	0.2	0.002	0.19	0.15	0.5	1	<0.2	30.1	0.08	0.05	0.27	0.016	<0.02
457686		40	3.1	2.0	<0.002	0.01	0.11	0.2	2	<0.2	161.5	<0.05	<0.05	0.13	0.007	0.08
457687		460	1.2	0.2	<0.002	0.03	0.15	0.3	1	<0.2	40.0	0.08	<0.05	0.29	0.017	<0.02
457688		530	0.9	0.1	<0.002	0.05	0.12	0.7	1	<0.2	34.4	0.12	<0.05	0.53	0.029	<0.02
457689		490	0.8	1.4	<0.002	0.03	0.16	0.6	1	<0.2	26.2	0.12	<0.05	0.48	0.026	0.04
457690		120	0.5	0.7	<0.002	0.04	0.06	0.1	1	<0.2	26.7	<0.05	<0.05	0.09	0.005	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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Finalisée date: 27-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18168877**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457671		0.1	6	0.3	7.1	<2	2.2
457672		<0.1	7	0.2	4.5	4	1.8
457673		<0.1	8	0.2	5.1	14	1.0
457674		<0.1	5	0.2	5.8	2	1.4
457675		<0.1	5	0.1	13.8	3	1.2
457676		0.6	33	0.5	5.2	12	19.5
457677		0.6	34	0.2	5.4	28	11.6
457678		0.5	30	0.1	4.8	21	8.5
457679		0.6	143	8.1	14.3	86	91.6
457680		0.3	20	0.1	4.7	7	5.2
457681		0.2	9	0.1	5.0	11	3.1
457682		0.2	18	0.2	6.5	5	5.5
457683		0.2	13	0.2	8.0	5	7.8
457684		0.2	17	0.1	7.3	4	4.3
457685		0.4	22	0.1	7.4	4	6.5
457686		0.2	3	0.4	0.9	20	3.4
457687		1.5	10	0.2	7.9	4	4.5
457688		0.2	18	0.2	8.1	8	8.7
457689		0.2	16	0.2	6.6	8	7.3
457690		0.1	5	0.1	4.0	12	3.1



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Page: **Annexe 1**  
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	<b>COMMENTAIRE DE CERTIFICAT</b>								
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Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
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	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
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Page: 1  
Nombre total de pages: 2 (A - D)  
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## CERTIFICAT VO18168878

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-003

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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À: **MINIÈRE OSISKO INC.**  
**300, RUE ST-PAUL**  
**BUREAU 200**  
**QUEBEC QC G1K 7R1**

Page: 2 - A  
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 Finalisée date: 29-JUIL-2018  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18168878**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457691		2.33	0.001	<0.01	0.04	1.1	<10	0.22	0.01	1.67	0.10	6.01	3.4	6	0.17	1.1
457692		2.70	0.001	0.01	0.19	7.4	10	0.67	0.01	1.57	0.03	13.30	7.6	8	0.92	1.2
457693		2.28	<0.001	0.01	0.06	1.8	<10	0.40	<0.01	1.43	<0.02	6.21	3.7	5	0.72	0.7
457694		2.46	<0.001	0.01	0.04	1.1	<10	0.42	0.01	1.40	0.02	5.63	3.9	3	0.94	0.9
457695		2.78	<0.001	<0.01	0.05	0.7	10	0.62	0.01	1.20	<0.02	6.73	3.8	3	1.57	0.6
457696		2.58	<0.001	<0.01	0.02	<0.2	<10	0.47	<0.01	1.25	<0.02	5.67	3.4	4	0.53	0.6
457697		2.74	<0.001	<0.01	0.04	0.6	10	0.75	<0.01	1.17	<0.02	6.95	3.7	5	1.32	0.6
457698		2.80	<0.001	<0.01	0.03	0.6	<10	0.45	0.01	1.16	0.03	5.92	3.8	7	0.78	0.9
457699		0.06	0.671	0.19	6.58	20.1	310	1.27	0.13	4.14	0.19	46.4	40.3	182	1.89	51.8
457700		2.44	<0.001	<0.01	0.06	0.7	<10	0.98	0.01	1.17	<0.02	5.78	3.5	7	1.18	0.6
457701		2.78	<0.001	0.01	0.06	0.7	<10	0.57	0.01	1.21	<0.02	5.84	3.9	4	1.42	0.8
457702		2.60	0.087	0.13	0.11	31.2	10	0.49	0.03	2.30	0.09	6.38	4.8	2	1.54	5.7
457703		2.65	<0.001	0.01	0.51	4.9	10	0.62	0.02	3.30	0.10	14.55	6.4	19	0.66	4.3
457704		2.37	0.001	0.02	0.45	2.0	10	0.46	0.02	2.17	0.05	11.85	6.6	24	1.29	4.1
457705		1.52	0.006	0.16	1.74	7.0	60	0.96	0.08	1.28	0.12	22.1	15.4	63	6.07	26.7
457706		0.27	0.001	<0.01	0.08	<0.2	30	0.06	0.01	30.0	<0.02	1.12	0.7	1	0.10	1.2
457707		3.18	0.020	0.32	5.69	79.2	250	2.24	0.27	1.11	0.28	52.4	20.8	89	5.18	65.8
457708		2.29	0.023	0.27	7.75	258	410	2.86	0.33	0.32	0.19	49.3	22.1	87	5.86	67.0
457709		2.35	0.026	0.28	8.00	275	440	3.07	0.36	0.09	0.41	50.9	19.4	84	5.96	76.0
457710		1.63	0.014	0.21	6.86	3.2	400	2.35	0.20	0.25	0.16	48.4	16.7	80	4.53	61.9



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Page: 2 – B  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18168878**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457691		22.3	0.22	0.07	<0.1	0.008	<0.005	0.01	3.9	0.6	3.54	4340	0.08	0.01	0.4	1.0
457692		25.5	0.79	0.07	0.1	0.005	0.005	0.02	7.9	0.8	3.64	8780	0.24	0.01	3.2	4.2
457693		22.8	0.32	0.05	<0.1	<0.005	<0.005	0.01	4.0	0.5	3.59	5360	0.11	0.01	0.8	1.5
457694		26.0	0.25	0.07	<0.1	<0.005	<0.005	0.02	4.0	0.3	3.96	4580	0.08	0.01	0.5	1.1
457695		25.1	0.34	0.06	0.1	<0.005	<0.005	0.02	4.8	0.3	3.72	6420	0.06	0.01	1.1	1.4
457696		24.5	0.22	0.06	<0.1	<0.005	<0.005	0.01	4.0	0.3	3.64	6850	0.07	<0.01	0.9	0.8
457697		24.8	0.32	0.07	<0.1	<0.005	0.005	0.02	4.8	0.3	3.67	5530	0.06	0.01	0.9	4.3
457698		25.2	0.26	0.06	<0.1	<0.005	<0.005	0.01	4.3	0.3	3.80	6110	0.06	0.01	0.7	1.1
457699		6.84	18.50	0.09	3.6	0.034	0.068	0.84	20.4	12.7	2.67	870	2.38	1.61	19.1	134.0
457700		23.8	0.37	0.07	<0.1	<0.005	<0.005	0.02	4.1	0.3	3.66	5820	0.07	0.01	0.9	1.0
457701		24.8	0.41	0.06	0.1	<0.005	<0.005	0.03	4.1	0.4	3.70	5670	0.06	0.01	1.1	1.0
457702		25.5	0.51	0.07	0.1	<0.005	0.011	0.04	4.1	0.6	3.91	6610	0.06	0.01	1.0	2.1
457703		20.1	2.06	0.07	0.5	<0.005	0.011	0.04	7.8	3.0	3.27	8240	0.56	<0.01	5.2	6.4
457704		16.40	1.98	0.05	0.4	<0.005	0.011	0.08	6.2	3.8	2.40	9930	0.27	<0.01	3.8	7.4
457705		19.50	5.25	0.07	1.0	<0.005	0.022	0.88	11.4	13.2	2.36	9290	2.74	0.01	8.4	28.3
457706		0.25	0.27	0.08	<0.1	<0.005	0.006	0.03	1.2	2.5	3.26	210	<0.05	0.04	0.2	0.5
457707		10.60	16.60	0.11	1.8	0.007	0.086	3.27	25.7	31.5	1.40	1440	1.80	0.04	13.4	52.5
457708		6.95	22.6	0.12	2.1	0.015	0.124	4.53	25.4	40.9	0.87	376	3.07	0.06	7.9	46.7
457709		6.71	22.0	0.12	2.4	0.014	0.072	3.94	24.9	42.9	1.00	287	7.08	0.06	7.7	50.8
457710		8.46	19.85	0.10	1.6	0.011	0.058	3.26	25.0	39.3	1.59	412	4.75	0.05	6.9	50.3



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Page: 2 - C  
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 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168878**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457691		170	0.6	0.5	<0.002	0.04	0.08	0.1	1	<0.2	34.8	<0.05	<0.05	0.07	<0.005	<0.02
457692		460	0.8	1.3	<0.002	0.04	0.12	0.6	1	<0.2	25.8	0.11	<0.05	0.42	0.022	0.02
457693		140	<0.5	0.7	<0.002	0.02	0.07	0.2	1	<0.2	21.4	<0.05	<0.05	0.10	0.005	<0.02
457694		180	0.5	0.8	<0.002	0.01	0.06	0.1	1	<0.2	20.0	<0.05	<0.05	0.04	<0.005	<0.02
457695		260	<0.5	1.4	<0.002	0.01	0.07	0.1	<1	<0.2	15.8	<0.05	<0.05	0.10	<0.005	<0.02
457696		130	<0.5	0.5	<0.002	0.02	0.05	0.1	<1	<0.2	17.3	<0.05	<0.05	0.06	<0.005	<0.02
457697		230	<0.5	1.3	<0.002	0.01	0.05	0.1	1	<0.2	16.7	<0.05	<0.05	0.08	<0.005	<0.02
457698		110	<0.5	0.8	<0.002	0.04	0.06	0.1	<1	<0.2	19.5	<0.05	<0.05	0.05	<0.005	<0.02
457699		1070	13.4	31.0	<0.002	0.02	0.94	18.9	1	1.6	323	1.17	<0.05	4.71	0.849	0.18
457700		140	<0.5	1.2	<0.002	0.01	0.05	0.1	<1	<0.2	18.0	<0.05	<0.05	0.06	<0.005	<0.02
457701		190	<0.5	1.7	<0.002	0.01	0.08	0.1	1	<0.2	16.4	0.05	<0.05	0.11	0.005	<0.02
457702		170	1.0	2.2	<0.002	0.30	0.21	0.2	1	<0.2	52.2	0.05	0.08	0.12	<0.005	0.04
457703		380	1.6	2.6	<0.002	0.14	0.20	1.5	1	<0.2	54.3	0.25	<0.05	0.79	0.063	0.08
457704		330	1.2	5.4	<0.002	0.11	0.16	1.4	1	<0.2	30.9	0.24	<0.05	0.67	0.062	0.10
457705		490	7.0	53.5	0.003	1.56	0.74	5.9	1	0.4	41.2	0.51	0.08	1.31	0.196	1.13
457706		60	0.5	0.8	<0.002	<0.01	<0.05	0.2	2	<0.2	78.6	<0.05	<0.05	0.07	0.005	0.02
457707		230	11.2	138.0	0.005	2.95	1.90	11.8	2	1.9	54.5	0.84	0.22	6.51	0.270	2.38
457708		140	12.6	160.5	0.013	2.76	2.57	11.6	3	3.2	28.8	0.60	0.34	9.45	0.259	2.93
457709		130	14.3	143.0	0.013	2.46	3.17	12.0	3	2.2	16.6	0.63	0.29	10.10	0.265	3.06
457710		160	9.0	119.5	0.010	2.09	2.03	12.2	3	1.7	19.5	0.45	0.11	7.83	0.218	2.15



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18168878**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457691		<0.1	4	1.6	4.4	18	2.3
457692		0.2	14	0.4	7.6	6	6.4
457693		0.1	8	0.2	5.6	3	2.9
457694		<0.1	8	1.3	5.7	3	1.6
457695		0.1	7	0.4	6.6	2	3.0
457696		0.1	5	0.2	5.5	2	2.4
457697		0.1	7	1.5	6.6	2	2.8
457698		<0.1	6	0.5	4.8	6	1.9
457699		1.1	136	2.1	18.4	121	139.5
457700		0.1	8	0.2	5.4	2	2.1
457701		0.1	7	0.3	5.8	3	3.3
457702		0.1	7	0.1	5.6	13	3.5
457703		0.5	34	0.3	6.0	14	22.7
457704		0.4	31	0.2	4.3	9	18.2
457705		3.3	82	1.0	5.7	59	40.9
457706		0.3	1	0.1	2.0	4	1.8
457707		5.0	171	2.2	8.7	132	66.5
457708		3.4	204	2.1	4.7	78	73.9
457709		5.2	238	2.4	5.7	151	81.5
457710		6.4	245	1.5	5.4	184	56.6



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Page: **Annexe 1**  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18168878**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
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## CERTIFICAT VO18168879

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-004

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18168879**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457711		2.18	0.009	0.21	5.04	38.2	150	1.09	0.13	4.21	0.20	34.1	9.8	67	2.34	62.2
457712		2.19	0.084	0.07	0.79	7.6	20	0.36	0.04	3.83	0.13	18.80	6.0	20	0.85	14.7
457713		2.57	<0.001	0.03	0.50	4.0	10	0.35	0.01	5.32	0.08	13.25	5.9	19	0.49	3.1
457714		2.78	0.001	0.04	0.30	6.5	10	0.33	0.01	2.78	0.07	11.50	3.9	10	0.25	7.1
457715		2.76	0.011	0.09	0.20	0.5	<10	0.20	0.01	1.43	0.08	8.84	3.6	3	0.27	18.0
457716		2.96	0.004	0.12	0.18	0.6	<10	0.23	0.03	1.85	0.09	6.27	5.1	1	0.07	30.5
457717		1.68	0.006	0.45	0.66	0.7	10	0.23	0.08	2.64	0.18	14.35	10.5	6	0.26	109.5
457718		2.47	0.081	1.04	3.88	12.4	170	2.07	0.55	0.75	0.58	45.8	58.6	68	2.81	183.0
457719		0.06	2.55	0.42	6.77	11.4	320	1.12	0.15	4.77	0.08	44.5	48.6	318	0.64	82.6
457720		1.21	0.017	0.06	0.20	4.2	10	0.14	0.01	5.38	0.14	7.71	2.2	8	0.24	11.3
457721		2.61	0.029	0.06	0.26	1.7	10	0.17	0.01	3.61	0.11	8.23	2.7	10	0.30	8.2
457722		2.53	0.139	0.09	0.26	0.9	20	0.24	0.02	2.06	0.09	10.75	6.0	9	0.44	17.1
457723		2.61	0.026	0.02	0.45	1.0	20	0.31	0.01	3.49	0.10	13.75	5.7	15	0.42	3.8
457724		2.49	0.007	0.03	0.42	3.8	10	0.32	0.01	1.57	0.06	12.85	5.4	15	0.13	9.3
457725		2.26	0.021	0.24	5.80	19.8	210	2.93	0.12	0.50	0.09	48.0	16.9	77	2.74	29.8
457726		0.23	<0.001	0.01	0.09	0.9	70	0.05	0.02	19.15	0.03	3.23	0.6	2	0.36	2.6
457727		3.82	0.019	0.22	6.63	12.3	240	3.25	0.14	0.54	0.10	52.5	14.9	74	3.17	31.7
457728		3.32	0.017	0.01	0.12	0.4	10	0.42	<0.01	1.12	0.06	6.29	3.5	4	2.05	3.4
457729		2.37	0.450	0.02	0.11	0.5	<10	0.41	<0.01	1.22	0.07	8.86	3.4	5	0.96	3.5
457730		2.29	0.157	0.02	0.08	0.7	10	0.64	<0.01	1.07	0.07	5.85	3.4	3	1.00	4.8



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 30-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168879**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457711		15.00	18.00	0.11	1.5	0.012	0.043	1.43	17.9	35.8	3.41	3880	5.39	0.03	9.9	32.3
457712		20.7	3.25	0.07	0.7	<0.005	0.026	0.20	10.1	6.5	3.48	12700	0.28	0.01	4.8	10.0
457713		17.95	2.12	0.07	0.4	<0.005	0.014	0.08	6.7	6.3	3.48	10300	0.32	0.01	3.7	8.3
457714		25.2	1.32	0.08	0.2	<0.005	0.017	0.03	6.2	4.0	4.10	7460	0.14	<0.01	1.8	3.7
457715		27.2	0.99	0.09	<0.1	<0.005	0.020	0.01	5.4	3.1	4.25	6830	0.07	<0.01	0.3	5.1
457716		31.4	0.87	0.10	<0.1	<0.005	0.030	0.01	4.2	3.0	4.99	8430	0.05	<0.01	0.4	8.2
457717		32.1	2.66	0.10	0.2	<0.005	0.087	0.09	9.2	8.4	5.56	12500	1.18	<0.01	0.9	38.9
457718		21.3	13.35	0.13	1.8	0.052	0.111	1.98	25.3	22.1	1.27	1260	17.05	0.06	5.3	76.6
457719		7.38	16.95	0.11	3.0	0.045	0.056	0.97	22.4	9.5	5.47	1000	2.81	1.96	26.9	346
457720		11.35	0.87	0.05	0.1	<0.005	0.011	0.07	4.4	2.3	2.83	3290	0.65	0.01	0.6	3.9
457721		17.00	1.25	0.07	0.1	<0.005	0.013	0.08	4.9	2.7	3.17	4510	0.23	0.01	0.5	5.6
457722		23.4	1.19	0.08	0.2	<0.005	0.008	0.05	6.2	3.0	2.95	6680	0.24	<0.01	1.1	8.4
457723		22.5	2.14	0.08	0.3	<0.005	0.009	0.07	7.5	5.6	3.58	8530	0.37	<0.01	2.4	7.6
457724		19.00	1.80	0.08	0.3	0.005	0.009	0.04	7.1	4.9	2.54	8300	0.38	<0.01	3.1	8.9
457725		13.45	16.55	0.10	1.5	<0.005	0.045	2.10	24.7	54.3	1.85	1940	1.82	0.05	10.9	50.3
457726		0.34	0.39	0.24	<0.1	<0.005	<0.005	0.05	1.6	18.5	12.00	345	0.09	0.02	0.2	0.7
457727		11.55	17.05	0.11	1.8	0.011	0.043	2.38	27.6	63.1	2.23	1000	3.54	0.05	7.9	49.8
457728		27.4	0.50	0.09	<0.1	<0.005	<0.005	0.04	4.1	0.7	3.66	6700	0.05	0.01	0.4	1.1
457729		26.3	0.51	0.09	<0.1	0.039	<0.005	0.02	5.5	0.8	3.67	6030	0.05	0.01	0.4	1.1
457730		26.1	0.38	0.09	<0.1	<0.005	<0.005	0.03	3.9	0.7	3.54	6350	0.06	0.01	0.4	1.2





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 30-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18168879**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457711		710	6.7	60.9	0.009	2.08	1.01	12.0	2	0.7	130.0	0.54	0.14	3.08	0.292	1.31
457712		460	2.3	11.0	<0.002	0.58	0.25	2.1	1	0.2	75.1	0.30	<0.05	1.23	0.096	0.48
457713		370	1.6	5.4	<0.002	0.14	0.16	1.4	1	0.2	75.5	0.22	<0.05	0.75	0.065	0.30
457714		300	1.2	1.4	<0.002	0.36	0.19	0.8	1	<0.2	48.0	0.09	<0.05	0.38	0.025	0.07
457715		170	1.1	0.7	<0.002	0.75	0.16	0.5	1	<0.2	31.0	<0.05	0.07	0.11	<0.005	0.05
457716		150	1.7	0.4	<0.002	1.22	0.31	0.6	1	<0.2	41.0	<0.05	0.11	0.10	<0.005	0.02
457717		360	4.2	4.8	<0.002	4.33	0.73	1.4	3	0.2	94.6	0.05	0.45	0.50	0.014	0.24
457718		380	21.5	81.4	0.015	>10.0	4.23	8.8	6	4.6	33.8	0.23	1.27	3.79	0.093	2.90
457719		1830	4.4	30.8	<0.002	0.04	0.30	21.1	1	1.2	475	1.46	0.08	2.74	1.035	0.06
457720		50	1.7	3.5	<0.002	0.62	0.16	0.4	1	<0.2	124.5	<0.05	0.05	0.16	0.006	0.18
457721		140	1.3	3.9	<0.002	0.52	0.15	0.4	1	<0.2	72.9	<0.05	0.05	0.18	0.008	0.20
457722		240	1.2	2.2	<0.002	0.86	0.19	0.5	2	<0.2	42.2	0.09	0.07	0.29	0.013	0.11
457723		430	1.5	3.2	<0.002	0.24	0.17	1.3	1	<0.2	69.3	0.14	<0.05	0.61	0.042	0.16
457724		580	1.1	2.2	<0.002	0.42	0.17	1.0	1	<0.2	39.7	0.14	<0.05	0.53	0.033	0.07
457725		220	7.4	88.4	0.005	2.44	1.54	10.3	2	1.2	24.6	0.62	0.08	6.44	0.229	1.81
457726		20	2.4	1.7	<0.002	0.02	0.13	0.3	2	<0.2	176.0	<0.05	<0.05	0.14	0.005	0.06
457727		190	10.4	95.1	0.009	1.88	2.07	9.9	2	1.2	25.4	0.49	0.11	8.39	0.219	1.72
457728		150	0.6	1.8	<0.002	0.18	0.05	0.1	1	<0.2	19.6	<0.05	<0.05	0.08	<0.005	<0.02
457729		170	0.8	0.8	<0.002	0.23	0.06	0.2	1	<0.2	22.9	<0.05	<0.05	0.06	<0.005	<0.02
457730		250	0.7	1.1	<0.002	0.19	0.07	0.2	1	<0.2	20.5	<0.05	<0.05	0.08	<0.005	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 30-JUIL-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18168879**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457711		7.6	220	0.8	10.1	270	62.6
457712		0.6	45	0.2	6.4	62	30.4
457713		0.5	35	0.2	5.6	36	18.4
457714		0.3	21	0.4	5.2	42	10.0
457715		0.1	12	0.1	4.4	49	2.7
457716		0.1	11	0.1	4.7	63	2.2
457717		0.4	24	0.1	6.2	134	9.0
457718		8.3	124	0.6	7.5	143	74.4
457719		0.6	146	2.8	20.5	102	134.0
457720		0.3	13	0.1	5.2	28	4.4
457721		0.2	18	0.4	4.5	38	4.5
457722		0.3	21	0.2	4.9	30	7.7
457723		0.5	33	0.2	6.7	26	12.9
457724		0.4	31	0.4	5.3	12	13.2
457725		4.8	185	0.9	6.9	102	59.9
457726		0.2	4	0.2	2.3	12	1.6
457727		4.8	198	1.3	6.6	155	66.6
457728		0.1	8	1.1	3.7	12	2.2
457729		0.1	7	0.3	4.1	17	2.6
457730		0.1	7	0.4	4.0	17	2.3



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **30-JUIL-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168879**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 27-JUIL-2018  
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## CERTIFICAT VO18168880

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Bon de commande #: KANDH18-036

Ce rapport s'applique aux 21 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18168880**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456701		4.08	0.028	0.82	6.83	9.7	220	1.83	0.22	0.76	3.16	78.8	37.0	84	2.73	173.5
456702		5.12	0.011	0.34	0.71	9.0	20	0.25	0.05	8.17	0.11	22.6	14.4	15	0.19	105.5
456703		3.08	0.070	0.02	0.25	14.0	<10	0.39	0.01	1.28	0.03	17.90	5.6	7	<0.05	4.6
456704		2.50	0.004	0.02	0.23	3.1	10	0.95	0.01	1.05	0.03	12.95	5.2	10	0.19	2.1
456705		2.61	0.004	0.01	0.27	9.0	20	0.60	0.03	1.56	0.02	14.15	5.3	9	1.26	3.0
456706		2.87	0.002	<0.01	0.12	2.0	10	0.40	0.02	2.46	0.05	7.96	3.3	11	1.52	0.9
456707		2.31	0.002	0.01	0.37	3.6	20	0.51	0.02	1.73	0.06	15.80	9.6	10	4.93	1.6
456708		2.49	0.002	<0.01	0.03	1.5	<10	0.37	0.02	1.08	0.04	4.24	3.6	6	0.34	0.6
456709		0.08	2.59	0.43	6.95	11.1	330	1.18	0.16	4.88	0.07	45.2	52.1	315	0.67	83.5
456710		2.14	0.121	0.01	0.37	2.8	10	0.24	0.02	1.77	0.13	9.92	4.8	5	2.00	4.0
456711		1.56	0.577	0.33	0.59	6.5	20	0.53	0.02	1.78	0.14	5.07	5.3	8	3.54	17.2
456712		2.51	0.016	0.01	0.04	0.4	<10	0.24	0.01	1.40	0.04	4.61	3.8	6	0.31	1.4
456713		2.63	<0.001	0.01	0.03	0.8	<10	0.29	0.02	0.97	0.03	5.94	4.1	6	0.17	3.7
456714		2.31	1.125	0.02	0.11	0.5	10	0.18	0.02	1.12	0.09	4.60	2.9	17	0.51	10.8
456715		2.13	1.680	<0.01	0.08	1.4	10	0.12	0.02	1.21	0.10	9.33	4.3	5	0.70	10.9
456716		0.23	0.001	0.01	0.28	0.9	230	0.17	0.03	19.30	0.08	1.33	0.7	2	0.48	2.8
456717		3.23	0.101	0.01	0.09	1.9	10	0.23	0.02	1.40	0.11	13.65	3.8	4	1.10	9.5
456718		2.56	0.015	<0.01	0.02	0.3	<10	0.18	0.01	1.08	0.06	10.05	3.6	5	0.39	2.0
456719		3.09	2.26	0.02	0.21	14.6	10	0.31	0.02	1.86	0.17	8.06	4.9	5	3.54	15.9
456720		1.99	0.003	<0.01	0.08	8.3	<10	0.33	0.02	1.30	0.05	6.31	3.4	10	0.84	2.0
456721		2.24	<0.001	0.03	0.97	1.4	10	0.70	0.03	1.70	0.07	22.0	7.3	26	0.11	7.5



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168880**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456701		18.80	19.85	0.17	4.5	0.084	0.140	3.22	43.2	26.0	0.98	415	15.90	0.11	15.5	151.0
456702		15.50	3.03	0.09	0.3	0.026	0.029	0.22	12.5	7.5	4.29	6140	2.54	0.01	2.6	52.2
456703		25.9	1.10	0.10	0.2	<0.005	0.006	0.02	11.3	4.5	3.23	8920	0.57	<0.01	1.8	5.9
456704		23.8	0.96	0.09	0.2	<0.005	0.005	0.05	7.6	2.3	2.84	8260	0.51	<0.01	1.8	5.8
456705		23.8	0.89	0.09	0.2	<0.005	0.006	0.06	9.1	2.4	2.69	7350	0.28	<0.01	3.5	5.2
456706		20.5	0.54	0.07	0.1	<0.005	<0.005	0.04	4.6	1.1	3.16	5890	0.19	0.01	1.3	2.2
456707		32.7	1.57	0.11	0.2	<0.005	0.007	0.09	9.4	2.2	4.82	10150	0.29	0.01	3.8	5.3
456708		23.1	0.25	0.08	<0.1	<0.005	<0.005	0.01	2.7	0.5	3.39	6840	0.07	<0.01	0.6	1.2
456709		7.58	16.95	0.12	3.2	0.056	0.059	1.00	22.8	10.0	5.63	1040	2.89	2.02	28.4	358
456710		27.8	1.24	0.10	<0.1	<0.005	0.009	0.05	6.1	1.9	4.20	8190	0.09	0.01	0.9	1.7
456711		20.8	1.70	0.08	<0.1	<0.005	0.012	0.08	3.2	4.4	2.88	5090	0.09	<0.01	0.7	2.4
456712		25.9	0.26	0.09	<0.1	<0.005	<0.005	0.01	3.2	0.5	3.57	4860	0.06	<0.01	0.3	0.8
456713		26.3	0.27	0.09	<0.1	<0.005	0.005	0.01	4.5	0.5	3.27	7040	0.06	<0.01	0.4	1.1
456714		20.7	0.45	0.08	<0.1	<0.005	0.005	0.02	3.1	1.2	2.67	6120	0.11	<0.01	0.6	1.3
456715		23.8	0.41	0.09	<0.1	<0.005	<0.005	0.01	5.7	1.0	3.03	6350	0.05	<0.01	0.4	1.5
456716		0.27	0.75	0.24	0.2	<0.005	<0.005	0.11	0.7	14.7	13.05	322	0.08	0.13	0.8	0.5
456717		28.6	0.44	0.09	<0.1	<0.005	0.006	0.02	8.0	1.1	3.89	7480	0.05	<0.01	0.4	1.1
456718		27.7	0.22	0.09	<0.1	<0.005	<0.005	0.01	5.7	0.5	3.79	5670	0.06	<0.01	0.4	1.0
456719		27.0	0.72	0.08	<0.1	<0.005	0.006	0.03	4.9	1.3	4.01	5910	<0.05	<0.01	0.3	1.5
456720		24.4	0.51	0.07	<0.1	<0.005	<0.005	0.02	4.2	0.6	3.67	7640	0.12	<0.01	0.8	2.0
456721		23.4	3.57	0.10	0.6	<0.005	0.019	0.06	11.9	7.8	3.22	12950	0.42	<0.01	6.8	8.4



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 27-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168880**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456701		310	35.8	86.3	0.023	>10.0	6.62	13.9	5	2.5	38.2	0.94	0.56	6.93	0.213	2.47
456702		260	9.2	5.9	0.002	4.80	1.69	2.6	3	0.3	269	0.13	0.31	0.74	0.028	0.18
456703		500	1.2	0.7	<0.002	0.47	0.32	0.5	1	<0.2	19.7	0.11	<0.05	0.36	0.010	0.04
456704		320	0.8	2.4	<0.002	0.17	0.21	0.5	1	<0.2	16.5	0.11	<0.05	0.28	0.012	0.09
456705		290	1.3	3.6	<0.002	0.17	0.30	0.5	1	<0.2	21.8	0.20	<0.05	0.40	0.013	0.22
456706		170	0.7	2.0	<0.002	0.05	0.09	0.3	1	<0.2	43.7	0.05	<0.05	0.17	0.011	0.07
456707		350	0.6	4.2	<0.002	0.08	0.17	1.0	1	<0.2	35.5	0.13	<0.05	0.59	0.039	0.15
456708		180	<0.5	0.4	<0.002	0.01	0.10	0.1	1	<0.2	19.2	<0.05	<0.05	0.05	<0.005	<0.02
456709		1880	4.6	30.9	<0.002	0.04	0.32	21.3	1	1.2	491	1.55	0.08	2.60	1.060	0.06
456710		80	0.7	2.2	<0.002	0.28	0.08	0.4	1	<0.2	46.0	<0.05	<0.05	0.14	0.005	0.07
456711		150	1.2	4.1	<0.002	0.93	0.12	0.5	1	0.2	55.5	0.05	0.05	0.07	<0.005	0.20
456712		90	<0.5	0.4	<0.002	0.10	0.05	0.1	1	<0.2	27.6	<0.05	<0.05	0.03	<0.005	<0.02
456713		350	0.5	0.2	<0.002	0.26	0.08	0.2	1	<0.2	16.2	<0.05	<0.05	0.05	<0.005	<0.02
456714		60	0.9	0.9	<0.002	0.52	0.11	0.2	1	<0.2	30.9	<0.05	<0.05	0.04	<0.005	0.03
456715		130	1.1	0.6	<0.002	0.52	0.26	0.2	1	<0.2	34.2	<0.05	<0.05	0.07	<0.005	0.02
456716		30	9.7	2.8	<0.002	<0.01	0.12	0.2	2	<0.2	142.5	0.06	<0.05	0.25	0.005	0.11
456717		90	0.8	0.9	<0.002	0.47	0.07	0.5	1	<0.2	31.8	<0.05	<0.05	0.09	<0.005	0.03
456718		100	<0.5	0.3	<0.002	0.12	0.05	0.2	1	<0.2	20.8	<0.05	<0.05	0.03	<0.005	<0.02
456719		50	0.9	1.3	<0.002	0.68	0.07	0.3	1	<0.2	57.0	<0.05	0.05	0.04	<0.005	0.04
456720		200	0.5	0.9	<0.002	0.10	0.08	0.2	1	<0.2	27.0	<0.05	<0.05	0.09	0.006	0.02
456721		570	1.6	2.1	<0.002	0.36	0.28	2.7	1	<0.2	32.9	0.36	0.05	1.19	0.106	0.06



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 27-JUIL-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168880**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456701		15.6	182	1.3	13.6	916	183.5
456702		1.1	40	0.2	6.4	49	16.5
456703		0.3	26	0.1	5.6	19	10.3
456704		0.3	23	0.2	4.9	10	8.4
456705		0.3	22	0.1	5.1	7	10.6
456706		0.1	11	0.2	4.5	12	3.7
456707		0.3	28	0.3	5.5	17	11.1
456708		<0.1	6	0.1	3.5	7	2.2
456709		0.6	149	3.0	20.3	104	138.0
456710		0.1	18	0.1	4.9	35	3.7
456711		0.1	24	0.2	4.3	37	2.5
456712		<0.1	5	0.1	4.1	5	1.4
456713		<0.1	5	0.1	4.0	8	1.5
456714		<0.1	6	0.1	3.0	20	1.3
456715		0.1	7	0.1	3.8	17	2.6
456716		1.0	2	0.2	0.7	15	4.9
456717		0.1	13	0.1	4.7	31	4.5
456718		<0.1	11	0.1	3.9	12	2.9
456719		0.1	12	0.1	5.0	31	2.9
456720		0.1	9	0.3	3.9	8	2.8
456721		1.0	60	0.2	6.5	16	30.0





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **27-JUIL-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168880**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.  
CRU-31 LOG-21 LOG-23 PUL-31  
PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 28-JUIL-2018  
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## CERTIFICAT VO18168882

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Bon de commande #: KANDH18-037

Ce rapport s'applique aux 18 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 28-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168882**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456722		4.63	0.002	0.08	6.31	61.7	280	1.04	0.01	5.64	0.22	9.07	43.1	133	1.64	115.0
456723		4.01	0.002	0.07	6.36	55.5	230	0.69	0.01	5.01	0.20	11.40	42.1	131	1.49	126.0
456724		4.89	0.006	0.21	5.83	14.6	310	2.43	0.11	0.56	0.32	48.9	12.9	72	2.52	66.1
456725		4.97	0.034	0.69	6.29	13.7	140	2.01	0.21	0.36	3.05	64.1	31.0	81	3.12	191.0
456726		4.72	0.041	0.69	6.35	12.9	150	1.69	0.23	0.22	4.03	68.6	20.2	85	3.20	207
456727		5.01	0.096	0.89	5.92	76.0	120	1.50	0.47	0.67	2.95	67.3	59.7	84	3.08	161.0
456728		4.87	0.014	0.44	7.68	4.5	280	2.12	0.12	0.33	2.57	63.9	13.1	116	3.59	170.5
456729		0.06	7.79	1.26	5.98	32.5	300	0.98	0.44	2.91	0.08	29.6	42.5	316	0.62	113.0
456730		5.24	0.023	0.73	4.70	7.1	140	1.69	0.29	0.74	3.49	58.8	13.0	52	1.95	320
456731		4.67	0.017	0.33	9.53	2.8	380	2.92	0.11	0.58	2.16	66.0	7.2	113	4.12	121.5
456732		4.54	0.054	0.73	7.06	21.8	160	2.12	0.31	0.48	3.52	51.2	36.9	94	3.00	216
456733		4.88	0.157	1.13	6.03	86.0	130	1.97	0.46	0.34	3.49	59.5	87.5	85	2.95	154.5
456734		4.14	0.029	0.76	4.45	7.6	170	1.39	0.24	1.21	2.28	43.9	24.8	73	2.05	253
456735		4.83	0.022	0.87	4.92	10.3	130	2.23	0.34	0.35	3.86	54.2	52.1	71	2.16	337
456736		0.27	0.002	0.01	0.09	0.3	30	0.09	0.02	32.4	0.02	1.21	0.9	2	0.07	2.7
456737		5.47	0.257	1.99	3.93	121.5	80	2.01	0.93	0.40	6.48	44.4	93.4	61	1.81	274
456738		5.24	0.192	1.72	4.78	86.9	50	2.29	0.74	0.25	5.22	44.7	63.0	75	2.15	275
456739		5.40	0.045	1.01	4.12	9.0	120	2.24	0.34	0.63	4.17	41.7	37.9	66	1.99	396



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 28-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18168882**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456722		8.67	14.10	0.08	1.3	<0.005	0.072	2.21	3.4	42.9	3.82	1240	0.23	0.04	2.7	82.6
456723		9.15	14.20	0.09	1.4	<0.005	0.069	2.06	4.3	43.3	3.86	1040	1.14	0.04	2.8	86.5
456724		10.45	16.30	0.12	1.5	<0.005	0.053	2.80	24.8	39.1	1.78	993	3.12	0.06	5.5	52.4
456725		18.60	19.00	0.15	3.1	0.076	0.159	3.45	35.4	33.8	0.83	305	21.5	0.08	9.8	128.0
456726		19.45	19.15	0.15	3.4	0.114	0.183	3.32	38.5	31.2	0.75	220	20.9	0.08	11.0	140.0
456727		19.00	17.65	0.17	3.9	0.174	0.146	3.07	36.9	28.8	0.96	469	20.7	0.08	11.9	134.0
456728		15.45	21.1	0.18	4.0	0.062	0.141	3.98	34.5	32.7	0.74	206	16.10	0.13	12.2	116.0
456729		5.46	14.50	0.14	2.2	0.159	0.045	1.03	15.2	16.4	3.90	710	5.56	1.16	16.3	242
456730		22.9	14.35	0.17	3.3	0.091	0.115	2.42	32.5	18.9	0.76	369	14.10	0.07	7.8	174.5
456731		11.10	24.3	0.22	4.7	0.036	0.122	4.81	37.4	33.2	0.86	209	10.20	0.17	12.0	81.1
456732		17.45	19.65	0.19	4.1	0.092	0.151	3.78	26.1	28.3	0.75	226	15.45	0.09	14.5	114.0
456733		17.05	18.90	0.17	2.7	0.192	0.149	3.14	33.3	31.2	0.81	231	22.7	0.07	11.1	106.5
456734		17.95	14.00	0.14	1.9	0.057	0.106	2.20	25.0	23.6	1.17	831	15.55	0.05	6.8	96.3
456735		25.2	15.80	0.18	2.3	0.100	0.182	2.53	29.7	24.7	0.95	665	15.35	0.06	6.5	136.5
456736		0.21	0.30	0.07	<0.1	<0.005	<0.005	0.03	1.2	2.5	2.82	146	0.08	0.03	0.2	0.6
456737		27.3	14.50	0.18	1.6	0.371	0.338	2.00	23.2	21.0	0.84	623	18.25	0.05	4.2	131.5
456738		26.2	16.05	0.18	1.9	0.273	0.282	2.55	22.6	24.9	0.76	460	14.60	0.06	5.1	130.0
456739		26.7	13.35	0.16	1.5	0.121	0.198	2.07	23.5	24.7	1.30	1360	14.55	0.05	3.8	125.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 28-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168882**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456722		340	1.7	72.2	0.002	0.12	0.28	39.3	1	0.7	127.5	0.17	<0.05	0.23	0.596	0.95
456723		330	1.6	66.0	0.003	0.34	0.29	37.8	1	0.6	119.5	0.18	<0.05	0.54	0.571	0.87
456724		260	13.8	97.1	0.009	4.50	3.27	10.7	3	1.3	27.0	0.24	0.12	5.91	0.118	1.54
456725		220	40.5	103.0	0.024	>10.0	9.92	11.1	5	2.9	24.6	0.51	0.52	6.24	0.157	2.32
456726		240	40.8	98.3	0.028	>10.0	8.86	10.4	6	3.4	20.4	0.63	0.64	6.73	0.170	2.49
456727		250	70.4	90.1	0.029	>10.0	13.25	11.9	6	2.7	41.9	0.73	1.74	6.68	0.179	2.72
456728		460	25.7	105.5	0.024	8.25	4.03	17.6	4	3.0	29.6	0.65	0.33	5.29	0.249	2.72
456729		1060	8.4	37.5	<0.002	0.09	0.70	21.7	1	0.9	269	0.86	0.23	2.13	0.651	0.17
456730		220	49.4	70.0	0.021	>10.0	6.14	7.9	6	2.0	34.1	0.43	0.63	5.07	0.109	1.73
456731		250	21.4	122.5	0.012	6.07	4.55	20.7	4	2.5	32.9	0.63	0.29	5.21	0.304	3.22
456732		330	104.0	92.2	0.023	>10.0	9.20	16.5	5	2.9	26.0	0.82	1.12	4.66	0.251	2.71
456733		220	137.5	96.1	0.026	>10.0	18.55	11.8	5	2.9	21.9	0.60	2.79	5.59	0.183	2.86
456734		300	116.0	64.9	0.017	>10.0	8.26	9.8	5	1.9	45.3	0.40	0.78	3.67	0.135	1.67
456735		320	62.5	80.6	0.021	>10.0	10.90	10.3	8	4.9	20.2	0.39	0.99	4.32	0.125	2.19
456736		70	1.0	0.9	<0.002	0.04	0.12	0.2	2	<0.2	83.9	<0.05	<0.05	0.09	0.006	0.02
456737		310	178.5	65.4	0.022	>10.0	34.4	10.2	9	9.2	21.5	0.26	3.74	3.17	0.104	2.69
456738		250	146.5	79.6	0.018	>10.0	29.2	10.3	8	6.4	17.2	0.28	3.51	3.27	0.125	3.03
456739		250	58.0	65.1	0.016	>10.0	13.50	8.5	7	4.7	28.5	0.20	1.41	3.17	0.106	2.20



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 28-JUIL-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18168882**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456722		0.1	321	0.9	3.6	81	53.0
456723		0.5	320	0.8	3.7	97	50.7
456724		5.4	226	1.3	6.3	120	61.5
456725		13.2	249	1.3	9.9	913	132.0
456726		14.5	234	1.2	10.0	1240	135.5
456727		13.2	224	1.2	15.4	898	156.5
456728		17.3	229	1.6	9.9	689	163.5
456729		0.5	141	8.0	14.6	82	94.6
456730		9.5	152	1.3	8.8	824	136.0
456731		10.0	170	2.2	11.0	530	180.0
456732		15.2	205	2.0	10.8	936	164.0
456733		11.0	250	1.7	11.6	916	118.0
456734		6.9	161	1.3	7.4	619	80.7
456735		7.9	146	1.5	7.5	896	95.4
456736		0.2	2	0.1	1.9	8	1.6
456737		6.1	139	1.4	12.7	1870	66.7
456738		6.0	131	1.6	8.4	1540	73.9
456739		6.0	119	1.1	5.8	1130	63.8



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **28-JUIL-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168882**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.			
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP21	Hg-MS42	ME-MS61	



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 28-JUIL-2018  
Compte: MINVIR

## CERTIFICAT VO18168884

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Bon de commande #: KANDH18-038

Ce rapport s'applique aux 21 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 28-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168884**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456740		2.54	0.006	0.20	1.33	16.6	20	0.58	0.11	1.67	0.31	20.1	6.3	26	0.37	96.9
456741		2.55	0.006	0.13	0.84	7.0	20	0.58	0.13	1.73	0.23	16.00	5.8	27	0.24	62.1
456742		2.00	<0.001	0.06	0.22	28.7	10	0.37	0.07	1.71	0.12	12.20	3.9	18	0.06	18.7
456743		2.10	0.004	0.08	0.36	21.9	10	0.37	0.12	1.22	0.23	15.95	3.0	19	0.09	21.7
456744		2.21	0.006	0.10	0.36	10.3	<10	0.45	0.17	0.95	0.50	11.05	4.7	15	0.07	38.5
456745		2.44	0.005	0.23	0.71	14.5	<10	0.25	0.24	1.04	1.16	12.90	6.7	24	0.07	70.2
456746		2.81	0.005	0.18	0.25	85.0	<10	0.12	0.11	0.97	0.11	10.15	5.5	19	<0.05	75.8
456747		1.20	0.010	0.31	0.79	88.3	30	0.25	0.11	1.29	0.83	13.35	7.8	25	0.44	121.5
456748		4.85	0.034	0.88	6.37	3.0	120	2.13	0.29	0.82	4.40	67.2	12.7	86	3.08	240
456749		0.09	7.86	1.32	6.34	34.5	320	0.95	0.53	3.10	0.08	31.4	42.5	335	0.68	115.5
456750		4.57	0.046	1.10	5.54	45.8	120	1.85	0.47	0.25	4.94	56.2	62.1	76	2.72	193.0
456751		4.82	0.022	0.83	5.65	8.5	120	1.90	0.20	1.04	4.06	94.2	28.6	57	2.66	229
456752		2.57	0.019	0.83	6.30	4.8	130	2.50	0.25	0.20	1.93	59.1	35.9	105	2.64	267
456753		2.52	0.021	0.12	0.85	10.6	10	0.19	0.03	3.51	0.15	12.80	3.0	30	0.14	44.3
456754		2.44	0.026	0.13	1.42	93.2	10	0.23	0.06	1.55	0.12	17.65	9.7	34	0.14	38.5
456755		3.73	0.016	0.12	3.18	212	140	0.84	0.10	4.71	0.17	25.5	11.5	74	0.56	43.3
456756		0.19	0.002	0.02	0.16	1.0	110	<0.05	0.02	20.4	0.04	1.24	0.7	1	0.54	1.9
456757		3.44	<0.001	0.04	6.14	42.0	100	1.10	0.02	2.59	0.04	16.10	36.5	118	0.41	56.1
456758		4.12	0.001	0.05	6.59	57.9	60	0.98	0.02	3.10	0.07	10.70	46.2	139	0.40	52.4
456759		4.48	0.001	0.05	6.30	59.6	120	1.07	0.02	4.79	0.10	8.35	41.3	124	0.72	92.1
456760		3.29	0.001	0.12	6.15	86.3	210	1.19	0.02	5.78	0.13	8.19	52.4	124	1.01	168.0



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 28-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18168884**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
456740		23.2	4.28	0.09	0.5	<0.005	0.054	0.26	11.5	17.3	3.48	6660	3.40	0.05	2.2	34.0
456741		20.7	3.15	0.08	0.4	0.008	0.061	0.17	9.2	13.8	2.87	7010	3.79	0.04	2.3	23.9
456742		15.55	1.29	0.06	0.1	<0.005	0.032	0.04	6.9	4.2	2.46	3600	1.45	0.02	1.0	8.1
456743		15.45	2.13	0.06	0.2	<0.005	0.035	0.05	9.7	7.0	2.49	3600	1.47	0.01	1.3	9.0
456744		17.20	2.32	0.06	0.2	0.009	0.045	0.04	6.6	7.6	2.79	4510	2.69	0.03	1.4	14.5
456745		17.40	4.25	0.07	0.2	0.014	0.069	0.05	7.5	9.4	2.76	4300	3.62	0.11	1.5	28.8
456746		13.35	1.76	0.06	0.1	<0.005	0.043	0.03	5.9	2.7	2.39	3830	1.79	0.05	0.8	27.7
456747		11.70	2.65	0.06	0.3	0.022	0.050	0.28	7.7	7.4	1.77	2870	2.73	0.01	1.6	51.7
456748		20.5	19.15	0.16	4.0	0.094	0.190	3.24	37.7	30.1	1.02	698	21.6	0.08	10.0	130.0
456749		5.77	15.75	0.07	2.6	0.162	0.055	1.10	16.0	16.4	4.18	776	6.49	1.23	17.0	260
456750		20.5	17.90	0.15	3.8	0.162	0.174	2.76	29.5	32.5	0.81	297	21.3	0.07	12.8	130.0
456751		20.8	19.00	0.19	5.7	0.071	0.147	2.76	50.6	30.3	1.15	578	17.05	0.07	18.8	144.5
456752		25.5	18.85	0.17	3.5	0.050	0.114	2.92	32.4	32.0	1.04	399	21.6	0.07	10.5	168.5
456753		10.75	3.47	0.05	0.5	<0.005	0.023	0.11	7.0	9.7	2.23	7860	0.37	0.10	1.5	26.8
456754		25.2	6.04	0.09	0.8	<0.005	0.041	0.15	9.6	13.8	4.05	25100	0.80	0.21	3.2	20.9
456755		14.65	10.75	0.08	1.4	0.008	0.049	0.59	13.8	31.3	3.39	9490	4.29	0.03	3.7	38.2
456756		0.26	0.49	0.06	0.1	<0.005	<0.005	0.10	0.6	15.9	13.60	446	0.10	0.01	0.3	0.7
456757		12.75	15.55	0.06	1.6	<0.005	0.060	0.27	7.2	104.5	4.89	1460	1.04	0.02	1.5	81.0
456758		13.55	16.80	0.07	1.6	<0.005	0.089	0.21	4.6	121.0	5.66	1770	0.25	0.01	2.2	91.3
456759		10.10	15.50	0.06	1.3	<0.005	0.071	0.71	3.2	79.9	4.70	1640	0.22	0.64	1.6	94.8
456760		9.57	14.60	0.06	1.3	<0.005	0.073	1.07	3.2	75.1	4.86	1480	0.21	0.40	1.5	125.0



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18168884**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456740		400	7.4	12.4	0.003	4.38	1.19	3.8	2	0.9	53.8	0.13	0.49	0.97	0.049	0.50
456741		450	10.8	11.2	0.003	2.03	0.65	2.8	2	1.4	40.6	0.11	0.28	0.64	0.032	0.57
456742		270	4.4	2.4	0.002	1.01	0.44	0.6	1	0.5	28.3	<0.05	0.10	0.24	0.007	0.14
456743		470	4.3	3.3	0.002	1.24	0.60	0.8	1	0.7	22.5	0.06	0.15	0.34	0.011	0.17
456744		340	5.5	2.3	0.003	1.80	0.84	0.8	1	0.6	19.3	0.07	0.21	0.35	0.012	0.10
456745		280	5.6	1.7	0.003	3.14	0.87	2.2	2	0.3	26.3	0.08	0.34	0.48	0.030	0.08
456746		220	5.0	0.9	0.002	3.36	1.03	0.6	1	<0.2	29.3	<0.05	0.26	0.21	0.007	0.04
456747		260	11.5	9.2	0.003	5.36	2.43	1.7	2	0.5	56.4	0.11	0.35	0.73	0.029	0.33
456748		300	57.2	89.7	0.024	>10.0	10.15	12.7	5	3.8	44.7	0.63	0.71	6.37	0.179	3.01
456749		1140	10.4	38.9	<0.002	0.10	0.80	22.1	<1	1.1	289	1.01	0.25	2.45	0.699	0.21
456750		240	160.5	76.2	0.027	>10.0	14.35	10.0	5	3.0	20.0	0.84	1.20	5.93	0.155	2.74
456751		220	41.4	79.1	0.022	>10.0	9.94	9.5	5	3.0	50.5	1.29	0.47	8.34	0.148	2.47
456752		250	45.4	81.2	0.027	>10.0	10.65	13.9	6	2.9	17.8	0.61	0.56	5.86	0.205	2.41
456753		640	2.9	3.2	<0.002	2.45	0.32	2.4	1	<0.2	96.8	0.10	0.09	0.65	0.036	0.12
456754		730	3.1	4.2	<0.002	2.13	0.77	4.9	1	<0.2	34.7	0.21	0.10	1.28	0.081	0.15
456755		530	5.4	16.0	0.004	2.31	1.22	9.6	1	0.3	94.1	0.25	0.17	2.43	0.101	0.54
456756		20	1.7	3.3	<0.002	0.03	0.07	0.1	1	<0.2	142.5	<0.05	<0.05	0.06	0.006	0.09
456757		330	1.6	7.6	0.002	0.17	0.54	34.8	1	0.4	38.9	0.11	<0.05	1.21	0.137	0.23
456758		410	1.2	6.0	0.002	0.06	0.41	44.6	<1	0.4	60.7	0.13	<0.05	0.33	0.215	0.19
456759		350	2.2	19.5	<0.002	0.22	0.34	41.2	1	0.5	104.5	0.09	<0.05	0.21	0.238	0.66
456760		430	2.1	29.9	0.002	0.27	0.41	38.9	1	0.5	137.5	0.10	<0.05	0.19	0.310	0.84



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 28-JUIL-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168884**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
456740		1.5	50	0.1	4.9	191	22.0
456741		1.1	41	0.1	5.7	200	15.2
456742		0.6	14	<0.1	5.2	100	6.3
456743		0.7	19	0.1	6.1	124	7.9
456744		0.9	20	0.1	4.9	188	7.9
456745		1.1	35	0.4	4.8	340	12.4
456746		0.7	15	0.2	3.8	83	5.7
456747		1.5	34	0.3	3.7	206	12.9
456748		13.4	207	1.8	10.7	1020	146.5
456749		0.6	150	9.5	15.5	89	99.4
456750		11.6	200	1.7	10.5	1140	135.0
456751		10.7	161	1.3	12.9	874	203
456752		14.6	226	1.9	10.3	378	131.0
456753		0.4	50	0.2	4.8	59	20.2
456754		0.9	114	0.4	6.1	91	33.1
456755		4.2	167	0.2	7.6	109	53.8
456756		0.2	2	0.2	0.9	10	3.5
456757		1.2	295	0.4	6.2	149	51.9
456758		0.3	337	0.6	5.3	168	54.5
456759		0.1	313	0.8	4.4	161	38.4
456760		0.1	300	1.7	5.0	125	37.4



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**Page: Annexe 1**  
**Total # les pages d'annexe: 1**  
**Finalisée date: 28-JUIL-2018**  
**Compte: MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168884**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 28-JUIL-2018  
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**CERTIFICAT VO18168886**

Projet: Kan  
 Bon de commande #: KANDH18-039  
 Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-JUIL-2018.  
 Les résultats sont transmis à:

GLENN ASCH SIMON HOULE LIZ STOCK	PAUL DOBAK AUDREY ROUSSEL-LALIER CORPORATIF WEBTRIEVE	SIMON HEBERT LEE SCHOLL
--	---	----------------------------

PRÉPARATION ÉCHANTILLONS	
CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

PROCÉDURES ANALYTIQUES		
CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 28-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168886**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456761		2.49	0.004	0.10	6.33	31.2	290	1.56	0.03	4.94	0.09	12.45	43.0	127	1.67	92.3
456762		3.17	0.013	0.44	9.99	2.6	350	2.22	0.19	0.61	0.20	89.4	21.4	122	4.83	98.1
456763		4.82	0.021	0.46	9.86	4.2	280	1.83	0.20	1.43	2.51	84.8	23.6	117	4.88	101.0
456764		3.50	0.016	0.55	9.79	14.2	350	2.04	0.24	0.67	2.18	65.5	28.0	110	4.68	113.0
456765		1.43	0.004	0.30	2.28	10.5	20	0.24	0.06	0.14	0.11	7.94	13.7	29	0.49	102.5
456766		2.22	<0.001	0.11	1.01	3.5	10	0.08	0.02	0.61	0.03	2.97	2.2	23	0.21	37.8
456767		2.28	0.004	0.35	3.26	15.6	30	0.31	0.04	3.96	0.10	10.45	6.6	66	0.56	95.5
456768		Not Recvd														
456769		0.06	0.683	0.21	7.78	21.2	350	1.66	0.16	4.75	0.23	53.6	45.0	200	2.06	58.5
456770		4.74	0.029	1.26	4.11	16.4	200	1.68	0.28	2.65	1.32	63.8	18.7	51	1.84	227
456771		4.80	0.204	1.86	5.52	151.0	50	2.34	0.40	0.11	4.08	37.8	35.7	69	2.80	80.9
456772		4.88	0.161	1.75	6.02	136.5	40	2.67	0.32	0.11	2.87	53.2	25.8	66	2.88	81.4
456773		2.41	0.090	1.91	5.52	71.2	130	2.50	0.34	0.06	4.73	54.9	35.1	70	2.53	250
456774		2.81	0.005	0.14	0.36	106.5	<10	0.13	0.08	1.26	0.09	16.60	2.7	15	0.06	35.5
456775		2.31	0.082	0.15	0.26	335	<10	0.12	0.05	1.90	0.11	11.50	4.6	13	0.05	37.5
456776		0.20	<0.001	0.03	0.10	1.0	150	0.07	0.03	19.00	0.06	1.66	0.8	3	0.50	2.3
456777		2.49	0.135	0.17	0.32	88.4	<10	0.18	0.04	3.46	0.15	12.95	3.6	13	0.08	60.3
456778		2.44	0.543	0.24	0.47	132.5	<10	0.20	0.07	1.93	0.14	15.05	5.4	11	0.08	68.1
456779		2.28	0.007	0.43	0.60	654	<10	0.17	0.06	3.63	0.15	9.43	21.6	9	0.09	228
456780		2.27	0.006	0.40	0.47	37.4	<10	0.13	0.04	5.02	0.18	11.60	7.4	11	0.05	205



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 28-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18168886**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456761		9.59	15.70	0.07	1.5	0.006	0.078	1.77	5.4	73.2	4.40	1630	1.02	0.06	2.7	123.0
456762		9.11	26.2	0.16	6.4	0.022	0.113	4.96	48.2	31.2	0.88	207	13.45	0.17	24.8	96.7
456763		9.77	25.7	0.17	6.2	0.055	0.147	4.67	47.7	28.8	1.16	373	12.10	0.39	20.3	93.2
456764		11.60	25.8	0.17	4.8	0.062	0.129	4.46	34.7	31.4	0.98	339	13.10	0.60	9.7	91.2
456765		9.99	8.09	0.06	0.5	0.016	0.028	0.41	4.5	32.9	1.47	373	3.43	0.02	1.2	74.1
456766		3.83	3.74	<0.05	0.2	0.007	0.012	0.17	1.6	15.6	0.82	619	0.24	0.01	0.4	22.2
456767		13.65	10.90	0.06	1.0	0.006	0.038	0.48	5.4	48.2	3.82	5620	2.07	0.05	1.4	74.7
456768																
456769		7.74	20.4	0.10	4.2	0.023	0.077	0.93	24.6	15.9	3.09	994	2.60	1.79	20.7	153.5
456770		21.2	13.65	0.15	3.3	0.046	0.096	1.85	34.7	25.0	1.74	3730	14.80	0.06	13.3	173.5
456771		17.25	18.70	0.14	3.8	0.313	0.170	2.68	18.0	32.1	0.62	115	23.6	0.09	16.7	144.0
456772		16.25	20.3	0.15	5.3	0.309	0.137	2.90	25.6	33.6	0.64	110	20.5	0.09	21.7	138.0
456773		20.9	17.70	0.15	3.3	0.195	0.148	2.55	29.9	29.9	0.60	82	23.4	0.08	10.6	184.0
456774		13.95	2.25	0.06	0.2	0.005	0.023	0.03	9.6	5.9	2.13	3300	2.12	0.03	1.5	18.4
456775		12.80	1.39	0.06	0.2	0.005	0.013	0.02	6.7	5.5	1.88	3650	0.44	0.01	0.6	25.2
456776		0.19	0.42	0.07	0.1	<0.005	0.005	0.05	0.9	15.2	13.60	330	0.12	0.03	0.2	1.0
456777		18.55	1.52	0.06	0.1	<0.005	0.018	0.01	7.4	7.7	3.02	6750	0.29	0.03	0.7	35.3
456778		23.3	1.96	0.09	0.2	0.037	0.021	0.01	8.6	9.4	3.01	9480	0.85	0.08	0.7	50.6
456779		16.45	2.72	0.06	0.2	0.006	0.019	0.03	5.4	12.1	2.75	7890	0.52	0.04	0.6	98.4
456780		14.25	2.17	0.07	0.1	0.005	0.022	0.02	6.3	11.0	3.02	8680	0.26	0.02	0.4	103.5





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18168886**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456761		360	3.3	49.9	0.003	1.43	0.57	37.2	1	1.1	143.0	0.16	0.07	0.97	0.351	1.30
456762		470	18.0	121.5	0.014	4.81	4.52	24.5	2	3.4	42.4	1.58	0.24	7.86	0.433	4.01
456763		350	16.7	114.5	0.013	5.18	4.19	22.6	2	3.0	67.8	1.22	0.27	7.27	0.414	3.86
456764		290	18.3	105.0	0.015	6.57	4.08	21.6	3	2.8	51.3	0.58	0.30	5.72	0.313	3.93
456765		300	4.3	11.1	0.003	4.89	0.58	6.5	3	0.2	8.4	0.08	0.13	1.02	0.033	0.48
456766		310	1.3	4.5	<0.002	1.30	0.19	3.4	1	<0.2	18.9	<0.05	0.05	0.20	0.016	0.20
456767		450	4.3	13.2	0.002	4.49	0.50	14.5	2	0.2	119.5	0.08	0.19	0.63	0.076	0.57
456768																
456769		1220	15.1	44.1	<0.002	0.03	1.03	21.8	<1	1.9	372	1.31	0.06	5.41	0.976	0.21
456770		320	32.3	55.5	0.020	>10.0	7.31	7.3	5	2.5	83.8	1.10	0.58	5.60	0.136	1.95
456771		230	80.6	65.1	0.029	>10.0	20.9	9.9	5	3.1	14.9	1.15	1.35	4.37	0.181	3.94
456772		230	71.4	71.4	0.028	>10.0	19.75	10.2	4	3.2	16.6	1.60	1.06	5.77	0.195	4.39
456773		210	57.2	69.1	0.028	>10.0	13.80	9.6	5	3.4	13.3	0.71	0.88	6.05	0.151	3.62
456774		270	2.3	0.7	0.002	1.46	0.47	1.0	1	<0.2	29.1	0.08	0.12	0.41	0.013	0.04
456775		160	2.1	0.6	<0.002	1.82	0.35	0.5	1	<0.2	49.4	0.05	0.24	0.31	0.005	0.04
456776		20	2.9	1.8	<0.002	0.04	0.15	0.2	1	<0.2	132.0	<0.05	<0.05	0.22	0.006	0.08
456777		220	2.1	0.3	<0.002	2.03	0.19	0.9	1	<0.2	79.4	0.06	0.09	0.28	0.005	0.03
456778		350	4.0	0.4	<0.002	2.52	0.22	1.0	1	<0.2	47.6	0.06	0.10	0.55	0.012	0.03
456779		240	2.6	0.9	<0.002	4.52	0.52	0.9	2	<0.2	89.9	<0.05	0.24	0.36	0.008	0.05
456780		280	2.6	0.8	<0.002	4.36	0.26	0.9	2	<0.2	107.0	<0.05	0.14	0.42	0.006	0.05



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 28-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18168886**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456761		1.0	304	3.0	6.0	140	56.6
456762		14.0	194	2.0	14.2	59	227
456763		12.4	172	1.8	14.5	513	218
456764		13.3	207	1.8	10.6	445	175.5
456765		1.3	90	0.5	1.6	96	19.6
456766		0.2	49	0.5	1.3	48	8.3
456767		0.8	157	0.4	4.8	166	36.7
456768							
456769		1.2	155	2.3	22.0	137	160.5
456770		9.9	145	1.4	9.8	344	114.0
456771		13.9	238	1.8	10.3	1080	141.5
456772		14.1	222	1.8	13.4	749	197.5
456773		13.9	230	1.6	10.5	1160	120.5
456774		1.2	30	0.3	4.9	63	10.9
456775		1.3	17	<0.1	4.2	34	10.5
456776		0.3	2	1.2	1.2	17	3.4
456777		1.2	22	0.3	5.1	51	6.5
456778		0.5	30	0.1	4.6	66	10.1
456779		0.2	33	0.1	4.2	63	8.1
456780		0.2	23	0.2	4.2	50	6.6



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **28-JUIL-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168886**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 30-JUIL-2018  
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## CERTIFICAT VO18168887

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Bon de commande #: KANDH18-040

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 30-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168887**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456781		4.63	0.013	0.77	7.14	24.6	160	3.26	0.16	0.97	7.41	66.9	13.3	105	3.94	274
456782		4.77	0.026	1.88	1.85	44.1	80	1.02	0.33	2.78	20.5	54.0	18.6	47	2.20	473
456783		4.50	0.039	1.87	2.60	76.2	110	1.19	0.27	2.86	18.85	51.1	21.9	70	2.82	398
456784		4.74	0.070	1.78	3.02	349	90	1.31	0.44	1.72	11.85	36.8	22.0	69	2.46	50.5
456785		4.54	0.056	1.78	3.68	380	80	1.45	0.35	1.01	8.34	39.8	24.0	67	2.97	59.2
456786		4.81	0.051	1.80	3.59	365	70	1.34	0.39	0.78	11.85	43.2	26.4	57	2.92	202
456787		4.69	0.037	1.44	3.27	274	100	1.24	0.31	3.10	10.65	40.4	21.3	53	2.89	219
456788		4.87	0.034	1.24	3.99	219	120	1.31	0.25	5.40	5.00	43.9	15.4	49	2.46	66.3
456789		0.07	2.55	0.44	6.74	11.8	320	1.25	0.18	4.83	0.09	45.1	50.1	331	0.67	79.3
456790		4.46	0.032	1.17	5.75	195.5	100	1.85	0.29	2.15	6.57	58.5	18.3	68	3.38	102.0
456791		4.43	0.021	0.82	6.89	132.5	140	1.94	0.21	3.41	3.65	67.2	19.0	73	3.50	111.0
456792		4.59	0.026	1.06	8.26	99.6	190	1.67	0.25	1.32	2.96	59.6	24.4	91	4.53	128.0
456793		4.34	0.037	1.33	6.69	134.0	150	1.22	0.27	3.11	3.62	58.5	19.9	74	3.74	76.9
456794		3.35	0.033	1.10	7.68	128.5	120	1.43	0.28	0.29	4.44	58.5	22.6	85	4.15	82.3
456795		3.20	0.023	0.83	7.31	85.6	180	1.22	0.24	2.70	3.34	66.6	21.5	72	3.73	72.8
456796		0.32	0.001	0.02	0.07	0.4	20	0.05	0.02	33.0	0.09	1.16	0.8	2	0.05	2.8
456797		4.00	0.014	0.76	9.13	46.6	230	1.50	0.26	0.39	1.26	91.9	22.5	124	4.13	74.5
456798		4.29	0.009	0.48	10.40	25.6	230	1.85	0.13	1.26	1.73	97.7	13.0	128	4.85	73.3
456799		4.45	0.016	0.50	8.93	40.6	200	1.47	0.29	1.16	1.56	66.7	24.9	111	4.14	99.2
456800		4.37	0.008	0.45	9.15	32.6	220	1.59	0.22	1.33	1.54	83.1	19.0	112	4.32	90.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 30-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18168887**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456781		15.15	19.90	0.18	4.9	0.112	0.088	2.98	38.9	42.9	1.38	781	45.0	0.12	9.4	196.5
456782		18.60	5.91	0.20	1.6	0.298	0.100	0.68	35.3	16.6	1.44	2500	140.5	0.02	4.8	308
456783		15.55	7.79	0.18	1.4	0.377	0.081	1.09	34.2	17.3	1.46	1870	143.0	0.04	3.2	303
456784		15.65	8.57	0.17	1.4	0.903	0.075	1.46	23.5	12.5	0.89	470	98.2	0.06	5.8	259
456785		18.00	10.15	0.19	1.6	0.939	0.071	1.76	25.3	15.7	0.62	219	85.9	0.07	6.9	253
456786		18.50	9.69	0.24	1.6	0.979	0.109	1.65	27.5	16.5	0.46	243	99.3	0.08	7.6	294
456787		14.40	9.03	0.16	1.3	0.658	0.089	1.45	25.9	16.4	1.40	625	96.5	0.17	5.2	256
456788		13.60	10.15	0.13	1.4	0.507	0.076	1.74	26.3	16.8	2.48	626	38.2	0.24	8.1	134.5
456789		7.31	17.95	0.10	3.4	0.051	0.057	0.96	22.4	9.6	5.49	1040	3.05	1.93	27.8	347
456790		14.20	15.30	0.15	2.2	0.510	0.110	2.58	34.1	20.9	1.05	293	30.0	0.19	7.9	165.0
456791		11.45	18.45	0.15	3.4	0.288	0.081	2.97	39.0	21.9	1.58	451	19.50	0.36	10.0	145.0
456792		10.95	22.2	0.16	3.9	0.201	0.100	3.67	34.1	25.8	0.85	208	17.20	0.24	7.2	134.5
456793		12.65	17.40	0.15	2.9	0.357	0.105	2.87	34.4	21.9	1.56	362	27.5	0.24	9.0	128.5
456794		12.85	19.20	0.15	3.1	0.294	0.132	3.35	32.9	22.3	0.48	60	22.6	0.18	7.9	132.5
456795		10.25	19.60	0.16	3.9	0.225	0.120	3.01	38.7	21.4	1.45	329	15.70	0.40	8.1	117.0
456796		0.19	0.26	0.05	0.1	<0.005	0.007	0.02	1.3	1.2	2.53	165	0.13	0.03	0.1	0.6
456797		7.51	25.0	0.16	6.3	0.124	0.113	4.11	49.2	23.3	0.59	85	11.35	0.23	18.7	100.5
456798		7.18	30.2	0.18	7.6	0.079	0.143	4.70	50.5	36.6	1.28	263	12.05	0.24	25.1	85.8
456799		9.69	23.8	0.16	4.8	0.120	0.111	4.03	36.9	24.5	0.98	237	9.33	0.21	10.7	105.0
456800		8.58	25.8	0.17	7.7	0.115	0.126	4.26	42.6	25.9	1.07	322	9.84	0.20	22.2	96.9



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 30-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18168887**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456781		400	20.0	88.0	0.045	8.08	4.01	17.2	10	2.6	39.7	0.52	0.24	6.27	0.177	4.34
456782		2930	53.0	27.8	0.094	>10.0	11.15	4.9	21	0.9	61.9	0.32	0.37	3.55	0.052	1.64
456783		2020	40.8	40.7	0.136	>10.0	10.80	6.7	25	1.0	55.4	0.23	0.28	4.17	0.076	2.74
456784		400	78.2	47.5	0.100	>10.0	29.2	8.3	15	1.0	30.8	0.40	0.71	3.52	0.120	4.54
456785		350	85.3	55.6	0.072	>10.0	30.9	9.2	12	1.1	24.4	0.46	0.63	3.95	0.133	5.06
456786		510	88.3	53.6	0.072	>10.0	30.1	8.4	15	1.1	24.2	0.49	0.54	4.05	0.110	4.53
456787		640	63.4	48.9	0.072	>10.0	20.2	6.9	15	0.9	58.3	0.38	0.42	3.68	0.097	3.76
456788		220	53.6	51.4	0.042	>10.0	17.85	7.2	9	0.9	89.4	0.52	0.45	3.91	0.126	4.11
456789		1850	5.0	32.2	<0.002	0.05	0.35	21.1	<1	1.3	471	1.63	0.10	2.95	1.040	0.08
456790		470	52.2	74.1	0.034	>10.0	14.80	10.8	9	1.4	55.5	0.46	0.51	5.98	0.146	5.05
456791		250	35.2	81.5	0.020	>10.0	10.55	12.2	6	1.7	74.7	0.63	0.41	6.06	0.188	5.33
456792		220	35.3	95.5	0.020	9.91	10.10	16.2	5	2.0	50.5	0.45	0.40	5.42	0.210	6.13
456793		250	47.5	79.5	0.032	>10.0	13.65	12.9	6	1.4	71.0	0.56	0.48	5.41	0.196	5.24
456794		300	43.2	86.7	0.028	>10.0	11.25	13.0	6	1.5	31.3	0.50	0.55	5.42	0.201	5.51
456795		200	34.9	81.2	0.018	8.67	8.61	14.5	4	1.9	63.2	0.54	0.50	5.81	0.200	4.76
456796		60	2.2	0.6	<0.002	0.04	0.15	0.2	1	<0.2	81.9	<0.05	<0.05	0.08	0.005	0.04
456797		360	20.0	94.1	0.013	5.75	5.48	21.3	2	2.8	34.9	1.53	0.30	8.05	0.372	4.71
456798		430	9.5	97.7	0.011	3.94	2.97	24.0	2	3.8	51.3	1.60	0.15	8.51	0.425	5.01
456799		260	21.6	86.1	0.012	6.91	5.73	22.3	2	2.3	51.8	0.65	0.36	5.53	0.281	4.40
456800		320	20.3	86.7	0.011	5.63	5.46	20.0	2	3.0	55.6	1.64	0.30	7.62	0.324	4.29



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
456781		25.5	506	2.0	15.0	1180	175.0
456782		64.6	1280	2.5	25.1	3070	61.5
456783		52.3	1600	3.0	24.4	2840	55.4
456784		43.9	1040	2.7	16.2	1940	56.0
456785		36.6	873	2.4	17.1	1440	63.6
456786		40.4	870	2.3	20.5	2030	63.3
456787		44.3	875	2.5	19.9	1760	51.6
456788		20.4	353	1.5	9.8	1020	54.7
456789		0.8	146	3.2	21.0	105	136.5
456790		19.7	320	1.3	12.4	1370	82.8
456791		15.4	219	1.2	12.6	765	123.5
456792		14.3	217	1.0	11.5	668	138.5
456793		19.3	277	1.2	11.4	848	106.5
456794		17.4	264	1.2	10.7	1060	113.0
456795		13.2	191	0.9	12.2	832	135.5
456796		0.2	2	<0.1	2.3	34	1.8
456797		16.6	172	2.5	15.1	372	224
456798		15.2	177	1.6	17.7	504	265
456799		11.2	160	1.0	11.9	427	169.0
456800		11.9	161	1.1	16.4	424	269





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **30-JUIL-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18168887**

	<b>COMMENTAIRE DE CERTIFICAT</b>								
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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**BUREAU 200**  
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 28-JUIL-2018  
Compte: MINVIR

## CERTIFICAT VO18168889

Projet: Kan

Bon de commande #: KANDH18-041

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
LOG-QC	Test QC sur échantillons pulpe
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Projet: Kan

**CERTIFICAT D'ANALYSE VO18168889**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456801		4.46	0.064	1.24	7.48	98.9	160	1.46	0.45	0.34	2.99	48.2	32.0	108	3.39	95.1
456802		4.76	0.024	1.07	3.72	12.5	130	1.06	0.28	2.71	4.38	38.6	19.5	62	1.62	297
456803		4.50	0.024	1.46	5.05	10.7	130	1.83	0.65	0.39	4.98	48.8	19.4	83	2.03	333
456804		3.73	0.006	0.62	4.83	22.4	90	1.22	0.24	0.16	0.10	55.1	43.2	89	1.18	190.0
456805		3.44	0.003	0.14	6.72	2.2	240	4.75	0.13	0.59	0.20	59.0	20.0	93	22.9	22.4
456806		4.26	0.002	0.13	6.92	14.9	310	3.61	0.12	0.29	0.11	60.1	20.4	99	10.90	25.4
456807		4.52	0.005	0.20	7.06	17.2	320	2.79	0.17	0.59	0.21	68.6	19.2	93	4.03	38.8
456808		4.16	<0.001	0.12	8.14	34.2	350	2.56	0.14	0.54	0.14	67.9	16.7	91	4.17	41.2
456809		0.07	7.75	1.26	5.92	32.5	300	0.99	0.50	2.88	0.07	31.6	39.3	328	0.63	108.5
456810		2.68	0.002	0.34	7.35	22.3	280	2.38	0.17	1.05	0.50	71.8	17.0	98	4.19	77.7
456811		4.38	0.071	1.29	6.33	140.0	110	1.33	0.30	1.45	5.82	58.5	24.7	72	3.30	86.5
456812		4.78	0.084	1.33	5.77	181.0	110	1.20	0.28	1.47	6.23	55.4	17.9	69	2.71	62.6
456813		4.72	0.050	0.83	7.58	101.0	200	1.80	0.21	2.96	3.85	63.9	18.9	87	3.81	92.7
456814		4.14	0.037	0.75	7.40	114.0	170	2.20	0.28	0.63	8.77	57.1	30.7	96	3.99	108.0
456815		4.58	0.050	1.54	1.85	161.0	70	0.85	0.27	1.76	14.65	33.8	19.1	46	2.01	383
456816		0.27	0.001	0.02	0.10	1.4	440	0.06	0.02	19.55	0.10	1.56	0.6	1	0.37	3.0
456817		4.83	0.062	1.89	2.16	141.0	100	1.50	0.29	1.92	17.25	65.1	9.5	53	2.56	280
456818		4.67	0.042	1.27	1.29	244	50	0.70	0.19	3.41	5.44	36.5	15.7	35	1.25	351
456819		4.66	0.053	1.34	4.09	93.6	120	1.84	0.33	0.56	12.55	48.4	20.1	60	3.33	221
456820		4.89	0.072	1.24	6.16	113.0	90	2.01	0.30	0.37	2.91	55.1	26.9	73	3.03	144.5



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18168889**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456801		14.25	20.8	0.15	4.1	0.432	0.157	3.31	24.3	26.6	0.62	152	15.75	0.16	10.9	139.5
456802		24.7	11.95	0.14	1.5	0.169	0.157	1.54	21.7	17.0	1.61	1270	11.70	0.07	3.6	170.0
456803		26.2	16.35	0.17	2.0	0.232	0.195	1.92	26.7	32.3	0.96	256	17.80	0.07	3.0	176.5
456804		22.7	15.20	0.16	2.7	0.055	0.052	0.84	32.4	78.2	2.29	263	15.75	0.04	9.3	111.5
456805		13.60	21.3	0.16	2.0	<0.005	0.056	3.20	29.8	49.6	1.99	1080	0.98	0.02	14.0	43.4
456806		11.30	19.45	0.12	2.0	<0.005	0.058	3.22	30.7	47.9	1.55	524	0.78	0.02	14.6	52.0
456807		9.63	19.50	0.13	2.3	0.011	0.056	3.46	34.6	40.6	1.36	499	1.69	0.05	14.9	55.4
456808		6.95	21.2	0.13	2.5	0.010	0.048	4.14	34.0	28.3	1.26	1020	3.69	0.09	6.7	40.8
456809		5.37	14.70	0.09	2.4	0.166	0.048	1.01	15.6	16.1	3.84	716	5.91	1.13	15.7	239
456810		9.17	21.6	0.14	2.4	0.024	0.059	3.73	36.6	27.5	1.27	825	2.79	0.11	9.0	71.9
456811		15.45	16.60	0.18	2.3	0.414	0.115	3.12	34.0	15.5	0.82	349	25.3	0.10	5.5	153.0
456812		14.95	14.75	0.16	1.7	0.547	0.113	2.80	32.6	13.7	0.78	420	37.8	0.10	5.6	161.5
456813		11.55	19.85	0.16	3.1	0.304	0.108	3.86	36.9	22.5	1.51	676	18.80	0.12	8.5	124.5
456814		10.95	19.95	0.13	3.5	0.414	0.104	3.93	34.2	24.5	0.70	414	45.1	0.12	10.6	140.0
456815		19.00	5.12	0.14	0.9	0.434	0.081	0.97	23.0	8.3	1.01	2340	116.5	0.03	1.8	335
456816		0.13	0.37	0.25	0.1	<0.005	<0.005	0.05	0.9	14.4	13.35	323	0.36	0.03	0.2	1.0
456817		14.45	6.66	0.16	2.8	0.464	0.081	1.17	40.2	12.8	1.02	3020	135.0	0.03	11.7	257
456818		17.75	3.66	0.13	0.7	0.168	0.041	0.68	23.8	6.9	1.72	4440	96.9	0.02	1.3	273
456819		15.10	10.65	0.14	1.5	0.470	0.093	2.12	30.9	17.5	0.50	503	99.5	0.06	3.0	202
456820		16.20	18.70	0.14	3.6	0.349	0.108	3.27	29.9	25.1	0.64	387	15.90	0.10	9.3	123.5



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18168889**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456801		340	68.2	72.2	0.022	>10.0	18.15	17.1	4	3.2	29.1	0.70	1.29	4.75	0.241	4.29
456802		190	24.4	43.0	0.009	>10.0	5.96	7.8	7	3.0	78.6	0.22	0.51	3.21	0.086	1.72
456803		220	49.0	55.1	0.016	>10.0	10.90	10.5	7	4.4	19.6	0.16	0.96	4.04	0.091	2.04
456804		340	18.8	25.7	0.015	>10.0	3.36	12.4	6	1.9	9.8	0.44	0.60	4.41	0.155	0.83
456805		280	6.8	243	0.004	1.70	1.16	12.1	1	1.4	35.3	0.86	0.05	7.88	0.271	4.17
456806		260	6.1	192.0	0.003	1.74	1.24	12.7	1	1.4	25.4	0.92	<0.05	7.96	0.298	3.02
456807		250	10.8	139.0	0.007	2.49	2.34	12.2	2	1.4	37.8	0.97	0.07	9.50	0.308	1.68
456808		530	6.0	154.5	0.004	1.04	1.32	11.5	2	1.4	38.7	0.49	0.07	11.10	0.231	2.51
456809		1050	9.3	39.0	<0.002	0.09	0.75	19.6	1	1.0	265	0.93	0.24	2.45	0.647	0.20
456810		290	8.7	137.0	0.006	3.98	2.52	14.2	2	1.6	56.7	0.44	0.12	9.57	0.154	2.75
456811		550	57.4	86.9	0.035	>10.0	16.15	12.1	9	1.5	44.9	0.29	0.66	4.73	0.158	3.69
456812		590	66.1	76.8	0.048	>10.0	20.8	9.8	9	1.1	43.6	0.31	0.73	4.67	0.142	4.11
456813		350	41.9	96.6	0.025	9.75	12.65	15.0	6	1.7	62.2	0.49	0.42	5.20	0.247	4.40
456814		430	44.8	97.8	0.041	9.20	17.25	17.0	7	2.0	30.3	0.55	0.63	4.59	0.264	4.14
456815		2280	71.5	31.9	0.078	>10.0	20.7	3.8	21	0.8	52.1	0.11	0.40	2.53	0.045	1.28
456816		60	2.5	1.5	<0.002	0.05	0.19	0.2	1	<0.2	169.5	<0.05	<0.05	0.13	0.005	0.07
456817		2600	91.1	38.2	0.098	8.30	26.9	4.2	18	1.3	56.0	0.77	0.39	4.39	0.059	1.57
456818		3620	58.8	22.6	0.047	>10.0	14.05	3.1	18	0.5	91.9	0.08	0.29	1.79	0.032	0.87
456819		730	64.7	62.7	0.068	>10.0	20.9	7.1	13	1.2	26.3	0.19	0.62	4.19	0.087	2.65
456820		270	60.6	79.8	0.022	>10.0	16.35	10.5	6	2.6	24.2	0.57	1.20	5.24	0.154	3.71



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Page: 2 - D  
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Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168889**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
456801	0.1	16.9	195	1.4	10.9	823	150.5
456802		5.8	101	0.9	6.6	1080	56.0
456803		8.4	142	1.5	6.9	1080	72.9
456804		10.0	149	3.5	6.6	153	101.0
456805		4.3	181	1.7	6.7	89	70.3
456806		4.5	195	1.8	6.4	106	72.0
456807		5.9	215	1.7	7.6	158	82.4
456808		3.4	117	1.3	7.8	143	84.7
456809		0.6	137	8.8	14.5	81	93.4
456810		6.4	211	1.5	9.1	153	83.2
456811		16.8	309	1.4	10.5	1320	82.0
456812		22.2	393	1.7	11.3	1420	67.3
456813		15.5	246	2.0	10.3	862	110.0
456814		26.4	448	3.8	16.2	1560	141.0
456815		45.8	1000	3.0	22.3	2520	37.8
456816		0.4	5	0.5	1.0	22	2.8
456817		59.8	1170	3.1	31.2	2730	119.5
456818		39.1	771	1.7	24.7	933	30.3
456819		45.9	886	2.7	20.1	2230	62.7
456820		12.8	197	1.4	12.4	710	142.0



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Page: **Annexe 1**  
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 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168889**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.  
 CRU-31 CRU-QC LOG-21 LOG-23  
 LOG-QC PUL-31 PUL-QC SPL-21  
 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
 Au-ICP21 Hg-MS42 ME-MS61



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## CERTIFICAT VO18168891

Projet: Kan

Bon de commande #: KANDH18-042

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Projet: Kan

**CERTIFICAT D'ANALYSE VO18168891**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456821		2.52	0.038	1.13	3.83	49.7	130	1.19	0.17	0.87	2.75	41.3	23.6	63	1.88	258
456822		4.82	<0.001	0.08	5.88	69.4	90	0.63	0.01	3.29	0.13	21.6	38.0	128	1.26	43.8
456823		4.77	0.003	0.10	6.19	101.0	90	0.67	<0.01	5.60	0.16	8.99	43.7	130	1.19	63.9
456824		2.90	<0.001	0.02	6.49	107.5	180	0.97	0.01	5.41	0.23	11.10	42.6	136	1.54	13.4
456825		2.60	0.003	0.01	7.08	42.2	330	2.09	0.01	0.28	0.02	18.95	28.9	116	2.02	3.1
456826		2.68	0.007	0.29	1.47	6.7	40	0.28	0.07	3.16	0.19	29.6	7.5	26	0.35	80.5
456827		4.92	0.043	1.11	4.91	18.8	160	1.99	0.48	0.24	2.46	50.8	11.2	77	1.98	218
456828		4.67	0.054	1.16	5.53	5.6	110	2.18	0.40	0.16	5.29	70.2	22.9	73	2.51	219
456829		0.09	0.667	0.19	7.26	21.1	330	1.56	0.13	4.58	0.20	50.3	41.9	189	1.92	61.5
456830		3.61	0.018	1.34	6.07	7.1	210	2.19	0.23	1.12	2.32	57.8	20.5	78	3.11	228
456831		4.86	0.024	1.55	6.07	4.8	160	1.83	0.26	0.12	3.28	64.3	11.8	69	3.23	200
456832		5.15	0.036	1.97	5.93	10.0	140	1.70	0.31	0.11	5.18	55.5	19.1	75	3.25	252
456833		4.88	0.030	1.88	5.87	34.9	120	1.76	0.28	0.22	4.26	41.1	38.3	87	3.18	253
456834		5.64	0.023	1.94	5.42	27.4	150	1.83	0.24	0.39	3.10	55.2	18.7	80	2.96	370
456835		4.69	0.047	2.36	3.56	115.0	130	1.99	0.33	0.55	17.00	39.1	32.4	65	4.90	244
456836		0.26	<0.001	0.01	0.09	0.6	20	0.07	0.01	34.1	0.04	1.14	0.6	1	0.06	2.4
456837		4.54	0.068	2.69	2.75	209	130	1.46	0.42	1.38	18.65	38.3	26.3	54	3.58	231
456838		3.16	0.044	2.00	3.44	237	140	1.74	0.37	2.29	15.15	41.3	23.5	62	3.72	178.5
456839		2.32	0.054	1.68	2.38	187.0	110	1.08	0.24	2.32	12.75	33.7	20.7	51	2.71	267
456840		3.57	0.030	1.34	3.91	203	110	1.60	0.26	2.72	11.65	41.4	22.7	59	3.26	169.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 26-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168891**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456821		21.7	12.30	0.12	1.9	0.139	0.129	1.96	23.1	17.5	1.09	1060	12.65	0.06	4.3	103.5
456822		8.70	14.60	0.08	1.4	0.006	0.052	1.27	10.8	37.0	3.40	1210	0.64	0.85	3.3	67.6
456823		8.60	14.25	0.08	1.4	0.005	0.065	1.45	3.4	35.0	4.01	1720	0.27	0.97	2.2	91.7
456824		8.58	15.20	0.07	1.4	0.005	0.070	1.78	4.5	39.5	4.00	2000	0.49	0.99	2.7	93.7
456825		9.62	22.1	0.09	2.0	<0.005	0.052	2.17	8.7	92.1	2.79	1080	0.71	0.08	5.8	76.5
456826		12.10	5.15	0.07	0.6	0.013	0.029	0.29	17.7	16.2	2.00	2590	7.25	0.02	1.2	31.9
456827		23.2	15.80	0.13	2.6	0.078	0.117	2.15	29.2	30.7	1.23	399	18.50	0.05	4.9	124.0
456828		23.1	17.95	0.14	3.7	0.124	0.159	2.67	38.3	27.4	0.92	324	17.65	0.06	8.1	118.5
456829		7.36	20.2	0.14	3.6	0.018	0.067	0.91	23.2	16.0	2.94	919	1.82	1.72	19.9	135.0
456830		19.50	18.90	0.13	3.1	0.081	0.120	2.98	32.3	32.3	1.15	594	15.40	0.08	6.3	95.6
456831		18.35	20.1	0.15	3.3	0.129	0.137	2.90	36.3	36.9	0.78	183	23.8	0.08	9.5	106.5
456832		19.45	18.55	0.13	2.7	0.194	0.172	2.94	31.6	37.5	0.67	133	24.4	0.08	6.5	138.5
456833		19.20	19.90	0.13	2.9	0.158	0.139	2.82	21.2	41.5	0.87	208	25.7	0.08	7.2	138.5
456834		22.9	16.90	0.15	2.6	0.111	0.099	2.40	31.5	41.3	1.06	442	24.7	0.07	5.2	231
456835		19.15	10.15	0.18	1.6	0.489	0.068	1.83	28.4	23.8	0.50	290	150.0	0.04	2.9	248
456836		0.20	0.26	0.07	<0.1	<0.005	0.005	0.02	1.3	1.7	2.29	159	0.37	0.03	0.2	0.6
456837		15.90	7.66	0.17	1.2	0.699	0.073	1.36	26.9	18.3	0.72	741	144.0	0.04	2.5	348
456838		15.15	9.08	0.16	1.4	0.717	0.070	1.55	28.2	20.9	1.26	1180	126.5	0.06	3.6	344
456839		12.60	6.47	0.13	1.0	0.553	0.066	1.15	23.9	13.3	1.03	978	124.5	0.03	2.5	352
456840		14.45	10.25	0.14	1.5	0.642	0.084	1.78	27.6	18.4	1.29	754	101.5	0.10	4.3	261



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 26-JUIL-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18168891**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456821		260	36.0	55.1	0.014	>10.0	9.62	7.4	8	3.1	36.4	0.25	0.72	3.65	0.096	2.11
456822		430	4.3	40.5	0.003	0.19	0.36	34.1	1	0.6	121.0	0.19	<0.05	0.96	0.547	0.76
456823		340	3.7	39.9	0.002	0.08	0.25	36.0	1	0.8	190.5	0.15	<0.05	0.50	0.499	0.96
456824		350	4.2	55.0	0.003	0.11	0.40	36.9	1	1.1	196.0	0.15	<0.05	0.74	0.478	0.97
456825		320	2.9	26.1	0.003	0.12	0.53	20.5	1	1.3	17.8	0.38	<0.05	3.31	0.285	1.56
456826		350	13.6	9.8	0.005	3.60	0.71	2.8	3	0.2	85.6	0.07	0.25	1.50	0.027	0.33
456827		300	29.6	66.8	0.019	>10.0	6.85	11.0	8	3.6	17.8	0.26	1.15	4.46	0.103	1.67
456828		250	85.4	79.2	0.021	>10.0	8.06	9.5	6	3.3	18.3	0.56	1.09	6.27	0.114	2.22
456829		1160	14.0	42.1	<0.002	0.03	1.02	20.1	1	1.7	345	1.14	0.05	4.96	0.885	0.19
456830		350	25.0	83.6	0.024	>10.0	7.06	14.4	5	3.3	51.5	0.35	0.72	5.26	0.129	3.26
456831		220	34.3	83.6	0.025	10.00	9.81	10.6	5	3.1	18.2	0.65	0.72	6.62	0.130	3.35
456832		220	48.6	83.9	0.030	>10.0	13.60	10.3	6	2.8	18.2	0.40	0.85	6.02	0.125	3.35
456833		240	52.2	70.3	0.027	>10.0	14.40	11.6	6	2.9	21.5	0.41	0.76	4.50	0.128	3.35
456834		240	49.7	71.6	0.025	>10.0	12.05	10.6	8	2.4	23.0	0.35	0.59	5.45	0.113	2.91
456835		810	55.4	65.8	0.111	>10.0	14.40	7.8	24	1.6	25.1	0.21	0.54	4.20	0.080	4.00
456836		80	0.9	0.6	<0.002	0.04	0.09	0.2	2	<0.2	81.4	<0.05	<0.05	0.08	0.006	0.03
456837		1170	76.9	46.4	0.097	>10.0	25.8	5.7	20	1.0	39.8	0.18	0.79	3.57	0.065	3.56
456838		1090	72.4	50.9	0.094	>10.0	25.4	7.2	19	1.1	59.8	0.24	0.72	3.68	0.084	3.40
456839		1110	58.7	38.6	0.080	>10.0	18.15	5.3	16	0.8	55.0	0.16	0.44	3.01	0.061	2.66
456840		800	61.4	53.4	0.071	>10.0	19.45	7.8	15	1.0	62.4	0.26	0.51	3.66	0.093	3.33



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 26-JUIL-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18168891**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456821		6.6	122	0.9	7.3	781	77.9
456822		0.5	303	1.0	4.3	194	47.3
456823		0.2	301	1.6	4.1	208	61.8
456824		0.4	313	2.0	4.9	245	46.8
456825		1.7	213	1.0	3.4	172	75.1
456826		2.0	57	0.3	5.1	91	27.5
456827		8.6	159	1.5	13.4	446	102.0
456828		12.2	187	1.4	9.7	924	142.5
456829		1.1	146	1.8	20.7	130	147.5
456830		13.6	186	1.3	9.7	515	126.0
456831		14.8	259	1.3	9.3	790	131.0
456832		16.5	271	1.2	7.9	1320	106.5
456833		13.4	249	1.2	8.8	1040	121.0
456834		12.6	233	1.2	9.5	680	107.0
456835		74.0	1710	3.5	22.4	2700	65.6
456836		0.2	4	1.1	2.3	10	1.7
456837		68.4	1440	3.3	25.4	3160	48.4
456838		58.0	1340	3.1	26.5	2560	57.1
456839		53.6	1190	2.9	24.4	2210	41.6
456840		45.1	938	2.8	20.8	2130	62.4



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **26-JUIL-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168891**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 26-JUIL-2018  
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## CERTIFICAT VO18168892

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Bon de commande #: KANDH18-043

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 26-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168892**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456841		4.87	0.040	0.91	5.98	137.5	160	1.95	0.20	5.24	4.18	54.2	16.3	61	3.31	82.6
456842		3.95	0.023	0.73	8.45	93.1	200	1.79	0.23	1.04	3.23	59.3	21.6	86	4.54	126.0
456843		4.88	0.025	0.87	8.11	104.5	210	1.82	0.24	1.52	3.46	62.8	21.7	85	4.49	110.5
456844		4.81	0.027	0.83	8.46	111.5	190	1.77	0.23	0.49	3.31	63.9	22.0	82	4.46	97.8
456845		4.62	0.094	0.76	8.38	75.1	210	1.51	0.23	1.60	2.43	61.7	22.8	84	4.79	119.5
456846		4.94	0.015	0.67	8.87	61.4	220	1.52	0.24	1.24	1.28	60.0	24.9	99	5.03	115.5
456847		4.56	0.028	0.75	7.57	84.6	180	1.31	0.23	2.11	3.14	60.5	21.4	79	4.35	126.0
456848		4.73	0.039	1.09	6.43	163.5	130	1.22	0.20	2.02	4.47	57.6	19.2	71	3.83	96.1
456849		0.10	2.56	0.41	6.83	12.4	320	1.29	0.15	4.92	0.08	42.1	50.1	321	0.65	86.7
456850		4.73	0.044	1.17	6.24	168.5	140	1.16	0.16	2.03	4.44	58.7	17.7	66	3.96	69.5
456851		5.22	0.053	1.41	5.08	193.0	120	1.01	0.18	3.68	6.67	52.6	17.3	65	3.46	84.1
456852		5.21	0.054	1.46	6.10	184.5	120	1.21	0.20	0.79	7.20	55.4	18.3	80	3.98	93.3
456853		4.99	0.051	1.33	6.19	170.5	90	1.21	0.26	1.39	5.52	56.2	19.6	74	4.02	83.8
456854		4.52	0.024	0.80	7.08	76.6	190	1.23	0.25	1.43	2.98	57.0	21.8	82	4.01	122.5
456855		4.39	0.016	0.64	8.46	42.5	200	1.16	0.20	0.78	2.37	57.9	20.0	93	4.29	112.0
456856		0.27	<0.001	0.01	0.11	0.9	30	0.07	0.01	32.7	0.04	1.21	1.0	2	0.08	9.1
456857		4.85	0.008	0.55	7.98	23.6	220	1.70	0.22	1.48	1.45	84.8	21.3	95	4.73	90.9
456858		4.92	0.003	0.33	8.34	18.2	240	2.07	0.11	0.74	2.83	126.0	22.9	92	4.78	77.8
456859		4.37	0.002	0.37	8.55	17.8	210	1.79	0.14	0.76	2.01	88.8	21.4	110	4.61	110.5
456860		4.70	0.005	0.68	7.82	15.0	220	1.77	0.16	1.27	4.55	63.7	24.9	83	4.75	211



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 26-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168892**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
456841		11.95	15.15	0.12	2.7	0.357	0.057	2.83	32.7	23.2	2.41	873	19.35	0.28	10.8	128.5
456842		11.10	23.4	0.16	4.0	0.196	0.093	4.02	34.7	24.3	0.75	189	15.30	0.20	6.1	145.0
456843		11.00	21.9	0.16	3.3	0.248	0.101	3.74	38.2	24.5	0.98	294	16.40	0.20	7.9	122.0
456844		10.90	22.9	0.16	4.7	0.292	0.114	3.86	37.0	24.5	0.56	128	15.05	0.25	9.0	132.5
456845		10.60	23.2	0.17	4.0	0.209	0.104	3.84	36.6	25.5	0.87	233	13.30	0.22	8.5	118.0
456846		10.00	23.3	0.18	3.5	0.148	0.086	4.04	35.9	27.7	0.98	220	11.85	0.23	8.3	101.0
456847		11.45	21.0	0.16	4.0	0.236	0.110	3.35	36.1	21.4	1.18	288	13.65	0.32	10.4	135.5
456848		14.20	16.20	0.15	2.2	0.405	0.108	2.81	35.2	17.7	0.96	241	27.2	0.30	8.8	166.0
456849		7.55	17.65	0.13	3.3	0.060	0.057	1.02	21.4	10.1	5.58	1040	2.96	2.01	28.7	347
456850		14.00	16.05	0.15	2.1	0.475	0.093	2.78	34.9	15.5	1.06	259	30.1	0.27	11.3	159.5
456851		15.55	13.30	0.13	1.5	0.613	0.127	2.28	31.7	13.3	1.66	378	41.8	0.19	10.2	169.5
456852		15.25	15.25	0.16	1.8	0.628	0.127	2.73	33.1	14.7	0.54	132	43.1	0.16	9.4	166.5
456853		14.70	16.15	0.15	2.6	0.500	0.100	2.78	31.9	18.4	0.79	190	38.8	0.22	9.5	154.0
456854		12.25	18.80	0.14	3.2	0.307	0.094	2.91	33.2	22.8	1.02	264	16.85	0.46	9.5	124.5
456855		11.60	23.2	0.14	3.5	0.174	0.096	3.16	33.1	26.6	0.87	170	12.70	1.19	8.6	118.5
456856		0.23	0.32	0.07	0.1	<0.005	<0.005	0.03	1.3	2.1	3.28	172	0.13	0.05	0.2	0.5
456857		9.19	24.8	0.15	7.7	0.103	0.093	3.56	44.6	24.7	1.06	341	11.35	0.33	28.8	92.4
456858		7.15	29.7	0.17	15.2	0.096	0.110	3.92	62.7	26.3	0.80	195	11.70	0.24	64.7	65.7
456859		8.18	25.9	0.15	7.9	0.076	0.091	3.83	48.4	23.6	0.78	227	11.45	0.30	32.9	84.8
456860		12.15	22.4	0.14	3.9	0.122	0.082	3.57	35.6	24.4	0.90	307	16.85	0.18	8.3	160.0





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 26-JUIL-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168892**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456841		260	49.7	74.4	0.023	>10.0	16.15	9.6	7	1.5	99.0	0.70	0.47	4.87	0.182	4.59
456842		220	35.2	97.1	0.019	9.42	9.24	15.3	5	2.0	42.7	0.35	0.45	5.33	0.176	5.64
456843		240	39.2	96.2	0.021	9.60	10.35	15.7	5	1.8	48.7	0.40	0.58	4.86	0.226	5.41
456844		240	37.8	93.0	0.019	9.74	10.05	14.3	5	2.3	37.4	0.56	0.55	5.78	0.186	5.61
456845		230	32.3	95.1	0.015	8.49	8.10	17.5	4	2.0	59.0	0.49	0.45	5.10	0.221	5.63
456846		250	27.5	97.5	0.014	7.55	6.55	18.8	4	1.8	49.9	0.45	0.44	4.79	0.265	5.45
456847		260	73.5	84.6	0.017	9.03	8.01	15.3	5	2.0	58.8	0.53	0.46	5.04	0.214	4.83
456848		290	55.2	71.9	0.033	>10.0	14.30	10.8	7	1.3	58.3	0.44	0.49	4.41	0.175	4.57
456849		1860	4.8	31.2	<0.002	0.05	0.35	20.4	1	1.3	480	1.56	0.08	2.61	1.025	0.07
456850		230	62.4	72.1	0.034	>10.0	18.45	8.9	8	1.3	54.1	0.54	0.34	4.25	0.197	4.92
456851		340	69.6	60.5	0.044	>10.0	21.4	8.9	11	1.1	73.3	0.52	0.39	4.05	0.169	4.67
456852		460	71.7	70.1	0.047	>10.0	20.3	8.4	11	1.2	38.0	0.47	0.47	4.48	0.168	5.03
456853		340	65.0	68.8	0.041	>10.0	16.80	10.2	9	1.5	47.2	0.54	0.60	4.33	0.164	4.99
456854		260	33.3	73.8	0.019	9.54	6.79	14.6	6	2.0	51.0	0.53	0.46	4.37	0.223	3.96
456855		230	24.2	72.9	0.016	8.37	4.02	17.9	4	1.7	51.4	0.45	0.41	4.39	0.251	3.64
456856		70	1.1	0.6	<0.002	0.06	0.09	0.2	2	<0.2	84.7	<0.05	<0.05	0.09	0.006	0.03
456857		380	20.2	82.0	0.011	5.92	3.27	17.5	3	3.0	61.3	1.73	0.33	8.43	0.257	3.82
456858		450	16.8	86.0	0.012	4.40	1.94	15.9	2	4.5	49.0	4.62	0.16	13.35	0.352	3.88
456859		390	16.2	88.2	0.012	5.06	1.68	15.7	3	3.2	53.1	1.92	0.21	8.04	0.355	3.79
456860		250	20.8	84.8	0.022	6.95	2.24	14.5	8	2.0	58.6	0.48	0.25	5.08	0.188	4.10



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 26-JUIL-2018  
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**CERTIFICAT D'ANALYSE VO18168892**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456841		14.0	244	1.8	10.7	880	105.5
456842		13.7	209	1.2	13.2	722	154.0
456843		15.1	222	1.6	11.1	822	132.0
456844		13.7	206	1.3	15.7	852	173.5
456845		13.0	182	1.3	12.7	616	152.0
456846		12.0	175	3.2	10.8	342	140.0
456847		12.3	174	1.5	13.2	798	152.5
456848		17.0	289	1.5	10.8	1120	93.1
456849		0.6	148	3.1	20.7	105	142.0
456850		19.2	280	1.8	9.4	1060	87.3
456851		22.4	373	1.8	10.7	1540	63.6
456852		23.9	408	1.8	11.3	1640	75.3
456853		22.2	349	1.8	11.1	1180	104.0
456854		13.1	187	1.5	10.7	653	129.0
456855		12.8	180	1.1	10.3	537	139.5
456856		0.2	2	0.1	2.1	11	2.2
456857		11.6	141	1.5	17.3	323	293
456858		13.9	145	2.0	26.7	551	>500
456859		12.8	154	1.7	17.1	368	302
456860		14.6	209	1.2	10.8	664	146.5



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **26-JUIL-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18168892**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 9-AOUT-2018  
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## CERTIFICAT VO18173841

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Bon de commande #: KANDH18-PRIORITY-005

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 16-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18173841**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457731		2.18	0.273	0.04	0.21	0.4	10	0.21	0.01	1.22	0.10	5.38	3.9	12	2.55	19.2
457732		2.67	1.530	0.07	0.29	2.1	10	0.30	0.01	1.78	0.12	5.57	3.9	4	3.87	12.0
457733		2.56	1.055	0.17	0.23	0.7	10	0.31	0.02	1.50	0.10	5.64	3.9	5	2.53	11.8
457734		3.03	0.021	0.01	0.10	<0.2	<10	0.73	0.01	1.25	0.07	5.41	3.9	2	0.43	5.5
457735		2.38	0.042	0.01	0.07	<0.2	10	0.61	0.01	1.19	0.07	5.81	3.7	2	0.78	4.8
457736		2.49	0.335	0.03	0.28	153.5	20	0.27	0.02	2.04	0.12	5.25	5.4	5	1.73	12.4
457737		2.79	0.027	0.04	0.18	0.3	10	0.81	0.01	1.95	0.12	5.92	4.4	2	1.23	10.5
457738		2.35	0.010	0.08	0.46	1.8	10	0.19	0.04	3.08	0.12	10.25	5.4	10	1.02	18.1
457739		0.07	7.70	1.32	6.10	31.8	320	0.97	0.44	3.03	0.08	29.1	42.4	326	0.62	114.0
457740		2.98	0.028	0.93	3.75	18.6	130	1.39	0.35	1.40	2.99	45.1	19.0	72	1.28	185.5
457741		2.31	0.019	0.69	2.57	12.7	90	1.29	0.13	2.01	0.71	42.8	30.3	43	1.02	182.5
457742		1.98	0.004	0.23	0.30	5.2	<10	0.34	0.04	1.72	0.06	14.35	5.4	11	0.11	47.5
457743		2.68	0.002	0.05	0.24	8.5	<10	0.28	0.01	1.18	0.06	9.88	6.0	12	0.05	9.1
457744		2.51	0.009	0.18	0.70	19.9	10	0.73	0.07	1.63	0.13	15.50	5.5	20	0.17	31.8
457745		2.47	0.002	0.05	0.07	32.0	<10	0.36	0.03	2.18	0.07	14.45	2.0	8	<0.05	4.9
457746		0.22	<0.001	0.01	0.17	0.6	30	0.09	0.01	33.2	<0.02	1.28	1.1	3	0.06	6.4
457747		2.49	<0.001	0.03	0.09	15.8	<10	0.35	0.02	2.87	0.08	12.80	1.7	10	<0.05	4.3
457748		2.35	0.004	0.34	0.44	98.1	<10	0.36	0.08	1.19	0.08	16.30	4.5	15	0.06	46.5
457749		1.53	0.005	0.75	0.42	26.8	<10	0.14	0.05	2.52	0.10	13.05	3.5	13	0.13	139.5
457750		1.65	0.002	0.01	0.35	1.6	10	0.62	0.02	3.20	<0.02	8.23	5.8	12	0.10	4.3



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457731		21.3	0.73	0.05	<0.1	<0.005	0.007	0.05	3.5	1.0	2.81	6020	<0.05	0.02	0.5	1.5
457732		26.2	0.93	0.06	<0.1	0.062	0.009	0.07	3.8	1.1	3.66	6580	<0.05	0.03	0.3	1.1
457733		24.8	0.77	0.05	<0.1	0.011	0.012	0.04	3.7	1.1	3.45	6700	<0.05	0.02	0.4	1.1
457734		27.4	0.41	0.05	<0.1	<0.005	0.006	0.01	3.7	1.3	3.68	7580	<0.05	<0.01	0.3	1.2
457735		28.1	0.35	0.06	<0.1	<0.005	0.006	0.02	4.0	1.2	3.94	7410	<0.05	<0.01	0.7	1.2
457736		20.1	0.91	0.05	<0.1	0.005	0.013	0.05	3.5	2.9	2.99	5220	<0.05	<0.01	0.4	2.7
457737		31.0	0.74	0.06	<0.1	<0.005	0.011	0.03	3.9	2.2	4.43	7930	<0.05	<0.01	0.5	1.5
457738		24.1	1.79	0.06	0.2	<0.005	0.016	0.05	5.5	6.2	3.52	7230	0.89	0.01	1.5	5.3
457739		5.58	14.60	0.06	2.2	0.172	0.044	1.05	14.8	15.7	4.01	757	5.49	1.18	16.4	251
457740		20.9	12.45	0.11	1.9	0.077	0.112	1.35	25.6	28.0	1.79	1680	11.15	0.04	3.0	111.0
457741		20.8	8.44	0.11	1.4	0.030	0.080	0.96	23.8	19.0	2.68	4940	8.31	0.03	4.6	80.2
457742		22.5	1.13	0.06	0.2	<0.005	0.034	0.09	7.8	2.7	3.74	11900	0.37	0.01	1.1	21.4
457743		20.7	0.81	0.05	0.1	<0.005	0.010	0.04	5.1	4.1	3.09	8350	0.27	<0.01	1.1	6.0
457744		22.0	3.04	0.05	0.3	<0.005	0.032	0.09	7.9	13.9	3.26	6480	2.29	0.03	1.7	15.1
457745		18.55	0.58	0.05	<0.1	0.005	0.015	0.02	7.7	1.2	3.20	4280	0.63	<0.01	0.6	4.9
457746		0.30	0.39	<0.05	0.1	<0.005	0.005	0.02	1.3	2.0	2.58	210	0.09	0.09	0.2	0.9
457747		13.50	0.65	<0.05	0.1	<0.005	0.014	0.02	6.7	1.6	2.60	3280	0.51	0.01	0.7	3.3
457748		15.05	2.33	<0.05	0.2	0.005	0.047	0.04	8.8	8.0	2.58	4070	2.54	0.05	0.9	18.6
457749		16.25	1.98	0.05	0.2	0.010	0.052	0.09	6.8	5.8	3.43	6750	1.10	0.01	0.6	51.0
457750		16.05	1.65	<0.05	0.2	0.005	0.009	0.11	4.3	2.2	2.90	10550	0.19	0.01	2.6	5.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-AOUT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18173841**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457731		130	<0.5	2.2	<0.002	0.79	0.09	0.3	1	<0.2	32.5	<0.05	<0.05	0.09	<0.005	<0.02
457732		110	<0.5	3.0	<0.002	0.68	0.10	0.3	1	<0.2	47.6	<0.05	<0.05	0.05	<0.005	<0.02
457733		120	1.7	2.1	<0.002	0.56	0.08	0.3	1	<0.2	37.1	<0.05	<0.05	0.05	<0.005	0.02
457734		140	<0.5	0.6	<0.002	0.28	0.06	0.2	<1	<0.2	29.8	<0.05	<0.05	0.05	<0.005	0.03
457735		210	<0.5	0.9	<0.002	0.21	0.05	0.2	<1	<0.2	24.4	<0.05	<0.05	0.07	<0.005	0.04
457736		70	<0.5	2.2	<0.002	0.77	0.14	0.5	1	<0.2	67.4	<0.05	0.20	0.05	<0.005	0.09
457737		120	<0.5	1.6	<0.002	0.45	0.05	0.5	1	<0.2	44.5	<0.05	<0.05	0.07	<0.005	0.06
457738		130	<0.5	3.3	<0.002	0.97	0.17	1.2	1	<0.2	72.6	0.10	0.07	0.41	0.031	0.16
457739		1100	7.2	39.1	<0.002	0.09	0.71	21.9	<1	1.0	278	0.86	0.21	2.12	0.677	0.16
457740		340	23.0	43.5	0.014	8.65	4.81	9.7	6	2.1	58.2	0.17	0.98	3.06	0.071	1.14
457741		470	11.1	32.2	0.010	6.53	2.07	5.5	4	1.7	81.4	0.32	0.60	2.77	0.060	0.93
457742		560	2.3	3.0	<0.002	2.02	0.54	0.9	1	<0.2	47.2	<0.05	0.22	0.48	0.012	0.14
457743		290	<0.5	1.2	<0.002	0.54	0.26	0.7	1	<0.2	18.4	0.05	0.07	0.40	0.014	0.05
457744		340	5.5	4.9	0.002	1.49	0.49	1.9	1	0.5	23.0	0.09	0.22	0.59	0.022	0.29
457745		340	1.9	1.1	<0.002	0.33	0.36	0.2	1	<0.2	24.3	<0.05	0.08	0.08	<0.005	0.07
457746		70	0.9	0.4	<0.002	0.02	<0.05	0.8	1	<0.2	87.6	<0.05	<0.05	0.06	0.017	<0.02
457747		220	1.4	1.0	<0.002	0.29	0.21	0.2	1	<0.2	29.3	<0.05	0.05	0.11	<0.005	0.06
457748		540	3.4	1.5	0.002	2.28	0.57	0.9	1	<0.2	21.9	<0.05	0.25	0.34	0.010	0.08
457749		390	5.2	2.8	<0.002	4.86	1.03	1.6	2	<0.2	72.9	<0.05	0.42	0.31	0.008	0.13
457750		310	1.2	3.5	<0.002	0.06	0.07	1.1	1	<0.2	20.7	0.13	<0.05	0.35	0.048	0.02



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18173841**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457731		0.1	8	0.2	3.9	26	1.7
457732		<0.1	8	0.3	4.2	25	1.3
457733		<0.1	8	0.6	4.1	26	1.9
457734		<0.1	6	0.3	4.0	17	1.6
457735		<0.1	6	0.2	4.2	21	1.5
457736		<0.1	8	0.1	4.3	27	1.2
457737		0.1	7	0.1	5.5	35	2.3
457738		0.4	19	0.3	5.7	43	10.1
457739		0.5	143	8.3	15.3	85	96.1
457740		7.2	113	0.7	6.9	637	77.4
457741		4.0	84	0.5	7.5	206	60.7
457742		0.2	21	0.2	4.7	79	8.1
457743		0.2	16	0.1	3.8	44	6.8
457744		0.8	40	0.2	5.6	142	14.7
457745		0.3	9	0.1	5.5	58	3.0
457746		0.2	4	0.1	2.5	5	2.3
457747		0.5	10	0.1	5.1	53	4.0
457748		0.8	20	0.1	4.8	104	9.6
457749		0.7	22	0.1	4.1	82	8.5
457750		0.2	24	0.3	4.1	9	11.3





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **9-AOUT-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18173841**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 8-AOUT-2018  
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## CERTIFICAT VO18173951

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Bon de commande #: KANDH18-PRIORITY-006

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 16-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 8-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18173951**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457751		4.51	0.004	0.01	0.72	6.7	30	0.74	0.02	2.38	<0.02	14.15	8.6	23	0.28	9.8
457752		2.16	0.001	0.01	0.42	1.8	10	0.42	0.01	5.11	0.02	9.67	5.6	13	0.16	5.6
457753		2.29	<0.001	0.01	0.45	2.4	20	0.56	0.02	2.89	<0.02	12.15	7.0	19	0.17	6.3
457754		2.33	<0.001	0.01	0.49	5.7	20	0.52	0.02	3.51	<0.02	14.20	7.0	14	0.14	6.5
457755		2.49	<0.001	0.01	0.48	4.4	20	1.35	0.01	3.68	<0.02	11.45	7.3	21	0.16	8.7
457756		3.37	<0.001	<0.01	0.97	0.8	10	0.56	0.01	4.08	0.02	17.65	10.1	22	0.13	13.2
457757		1.65	<0.001	0.01	0.85	0.5	<10	0.20	0.03	2.79	0.02	11.20	9.6	27	0.06	44.2
457758		4.55	<0.001	0.03	7.38	69.2	670	1.82	0.01	1.22	0.02	9.88	63.8	161	3.47	68.7
457759		0.07	0.686	0.21	7.24	21.9	360	1.40	0.12	4.55	0.18	50.7	43.2	186	1.96	55.6
457760		4.81	<0.001	0.04	6.34	24.6	370	0.46	<0.01	5.96	0.08	9.08	44.5	107	2.02	103.0
457761		3.32	<0.001	0.06	6.39	9.7	30	0.29	<0.01	6.00	0.06	9.30	39.0	112	0.47	109.5
457762		1.82	<0.001	0.01	7.08	20.0	270	0.85	<0.01	3.51	0.03	9.86	49.2	138	0.45	36.1
457763		1.68	<0.001	0.01	1.15	1.3	10	0.17	0.02	8.66	0.06	8.82	14.0	16	3.16	95.1
457764		2.44	<0.001	<0.01	0.55	0.4	10	0.32	0.03	6.61	0.03	8.12	7.1	12	3.39	32.9
457765		2.41	<0.001	0.01	0.81	1.7	<10	4.21	0.04	4.03	<0.02	9.89	8.4	19	0.08	15.6
457766		0.24	<0.001	<0.01	0.08	0.3	30	0.05	0.01	34.3	<0.02	1.35	1.2	1	0.06	2.4
457767		2.28	<0.001	<0.01	0.66	1.8	10	0.91	0.02	3.70	<0.02	9.74	7.7	20	0.29	8.2
457768		2.36	<0.001	0.01	0.99	7.3	20	1.65	0.04	2.10	0.02	12.15	11.3	28	0.41	9.8
457769		2.41	<0.001	0.01	0.74	1.0	20	0.80	0.03	1.65	0.02	12.10	9.3	22	0.41	9.0
457770		2.44	<0.001	0.02	0.73	1.8	20	0.59	0.03	2.56	<0.02	10.65	9.8	24	0.27	16.3



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 8-AOUT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18173951**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457751		20.1	3.63	0.12	0.7	<0.005	0.011	0.28	7.4	3.9	3.44	12850	1.27	0.01	6.0	12.9
457752		15.15	2.06	0.15	0.3	<0.005	0.006	0.14	5.0	2.4	3.64	10900	0.30	0.01	3.3	7.0
457753		18.30	2.26	0.12	0.4	<0.005	0.012	0.18	6.5	2.4	3.54	12700	0.27	0.02	3.7	7.7
457754		18.40	2.01	0.12	0.4	0.006	0.009	0.16	7.7	2.5	3.58	14050	0.44	0.03	3.6	8.6
457755		17.10	2.00	0.12	0.4	0.005	0.008	0.13	6.3	2.6	3.31	13950	0.64	0.02	3.1	9.0
457756		21.1	4.52	0.11	0.7	<0.005	0.021	0.05	9.5	4.2	4.43	14400	0.29	<0.01	6.1	14.0
457757		13.55	3.72	0.10	0.5	0.008	0.019	0.01	5.9	2.3	3.17	4500	0.55	<0.01	3.8	10.8
457758		13.70	20.7	0.12	2.0	<0.005	0.078	3.01	3.5	33.0	3.57	2550	0.67	0.10	5.0	106.5
457759		7.41	20.4	0.14	3.9	0.023	0.065	0.90	21.1	13.5	2.93	946	2.55	1.74	19.7	144.0
457760		9.13	16.70	0.10	1.2	0.007	0.070	1.25	3.2	27.8	4.30	1450	0.24	0.89	3.0	84.4
457761		8.66	16.95	0.08	1.0	0.013	0.067	0.15	3.3	27.6	4.21	1320	0.18	1.50	3.0	82.8
457762		11.75	18.75	0.11	1.6	0.006	0.060	0.72	3.6	36.4	4.55	1420	0.23	0.24	3.5	95.1
457763		13.20	5.12	0.09	0.4	0.006	0.019	0.14	4.7	1.3	4.34	6980	0.27	0.04	2.7	14.7
457764		15.35	2.95	0.11	0.3	0.008	0.011	0.15	4.2	0.7	4.11	9350	0.14	0.04	2.5	9.8
457765		16.55	3.40	0.13	0.4	0.005	0.012	0.01	5.4	2.0	3.18	13250	0.42	<0.01	2.9	9.7
457766		0.32	0.22	0.08	<0.1	<0.005	<0.005	0.01	1.5	1.6	2.31	302	0.05	0.03	0.1	0.2
457767		17.05	2.62	0.13	0.4	<0.005	0.015	0.05	5.4	2.6	3.47	12150	0.27	<0.01	3.1	9.0
457768		23.8	4.33	0.14	0.5	<0.005	0.020	0.12	7.0	3.6	4.16	16950	0.32	<0.01	4.2	13.2
457769		20.1	3.11	0.13	0.5	<0.005	0.017	0.14	6.7	3.2	3.50	14350	0.26	<0.01	4.2	10.8
457770		20.2	3.12	0.13	0.4	<0.005	0.017	0.09	5.9	3.0	3.60	14150	0.36	<0.01	3.4	10.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 8-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18173951**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457751		410	1.6	8.6	<0.002	0.17	0.12	2.3	1	0.3	17.1	0.40	0.05	0.94	0.105	0.06
457752		300	1.8	4.5	<0.002	0.09	0.08	1.5	1	<0.2	29.5	0.20	0.06	0.56	0.055	0.03
457753		510	1.4	5.1	<0.002	0.11	0.09	1.5	<1	0.2	17.5	0.20	0.08	0.59	0.066	0.02
457754		670	1.5	4.1	<0.002	0.12	0.11	1.6	1	<0.2	20.8	0.22	<0.05	0.62	0.072	0.02
457755		540	1.3	3.1	<0.002	0.12	0.10	1.6	<1	0.2	20.7	0.19	0.05	0.52	0.066	0.02
457756		670	1.2	1.3	0.002	0.13	0.10	4.9	<1	<0.2	29.2	0.37	0.05	1.04	0.141	<0.02
457757		500	1.2	0.2	<0.002	0.23	0.11	3.0	1	<0.2	23.1	0.22	0.07	0.80	0.085	<0.02
457758		560	0.8	39.0	0.003	0.06	0.53	45.4	<1	1.0	17.1	0.32	0.05	0.44	0.762	0.42
457759		1160	14.4	31.8	<0.002	0.02	1.05	19.4	<1	1.8	353	1.21	<0.05	5.11	0.929	0.21
457760		350	1.8	26.5	0.002	0.03	0.17	41.7	<1	0.6	90.3	0.20	<0.05	0.22	0.627	0.27
457761		360	2.1	3.6	<0.002	0.07	0.15	43.2	<1	0.4	96.0	0.19	<0.05	0.23	0.629	0.06
457762		430	1.2	8.4	<0.002	0.01	0.17	45.4	<1	0.8	49.6	0.23	<0.05	0.27	0.694	0.06
457763		300	1.4	4.9	<0.002	0.41	0.13	5.6	1	<0.2	96.6	0.15	0.10	0.53	0.089	<0.02
457764		380	0.8	5.3	<0.002	0.13	0.12	1.9	1	<0.2	60.8	0.15	0.05	0.45	0.057	<0.02
457765		450	2.0	0.5	<0.002	0.17	0.12	2.2	1	<0.2	23.7	0.17	0.08	0.70	0.066	<0.02
457766		80	0.7	0.4	<0.002	0.01	<0.05	0.2	1	<0.2	89.2	<0.05	<0.05	0.09	0.006	<0.02
457767		370	0.9	2.1	<0.002	0.10	0.12	2.2	1	0.2	21.5	0.19	<0.05	0.63	0.079	0.03
457768		460	0.8	4.1	0.003	0.14	0.13	3.2	1	0.3	13.9	0.24	<0.05	0.88	0.105	0.07
457769		450	0.7	4.5	<0.002	0.13	0.10	2.4	1	0.3	12.0	0.22	<0.05	0.71	0.092	0.04
457770		380	1.0	3.0	<0.002	0.25	0.08	2.4	1	0.2	16.5	0.19	0.08	0.62	0.083	0.05



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 8-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18173951**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457751		0.4	59	0.8	5.3	12	26.4
457752		0.3	31	0.4	4.2	10	14.0
457753		0.2	33	0.5	4.7	8	16.5
457754		0.3	35	0.6	5.4	9	16.5
457755		0.3	41	0.6	4.4	9	14.5
457756		0.5	85	0.6	5.5	18	31.0
457757		0.4	74	0.3	3.8	18	20.7
457758		0.2	414	1.4	5.0	89	67.9
457759		1.1	151	2.3	18.6	132	146.5
457760		0.1	326	0.4	5.5	89	46.4
457761		<0.1	333	0.2	6.6	84	34.8
457762		0.1	368	0.6	5.5	87	45.1
457763		0.3	81	0.2	4.9	17	17.1
457764		0.3	53	0.2	4.3	14	14.2
457765		0.5	65	0.2	4.6	12	15.6
457766		0.1	2	0.1	2.3	4	1.7
457767		0.3	63	0.2	4.0	11	17.3
457768		0.4	84	0.3	4.5	20	22.2
457769		0.4	61	0.3	4.3	11	20.3
457770		0.6	53	0.3	4.0	11	17.2



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **8-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18173951**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 8-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18173959

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-007

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 16-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 8-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18173959**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457771		2.37	0.012	0.04	0.46	12.2	10	0.58	0.04	3.24	0.02	6.93	7.8	28	0.20	6.6
457772		2.86	0.002	0.01	0.62	3.1	10	1.05	0.04	2.61	0.02	10.15	9.0	23	0.21	9.9
457773		2.34	0.001	0.01	0.75	6.9	10	1.41	0.02	3.23	<0.02	11.70	8.4	20	0.13	8.6
457774		2.57	<0.001	0.01	0.77	3.5	<10	1.22	0.03	1.90	0.02	10.40	9.0	22	0.06	12.7
457775		2.37	<0.001	<0.01	1.23	3.3	<10	0.98	0.03	8.90	0.02	14.20	8.5	22	0.05	8.3
457776		2.36	<0.001	0.01	1.66	2.7	<10	1.17	0.05	3.37	0.02	17.80	12.5	28	0.06	21.3
457777		2.70	<0.001	0.01	1.09	2.6	<10	0.79	0.04	1.36	<0.02	9.94	8.7	23	0.05	15.3
457778		1.98	<0.001	0.01	1.72	0.4	<10	0.78	0.04	1.63	0.02	19.15	12.0	31	0.05	16.3
457779		0.07	2.52	0.43	6.84	10.9	320	1.10	0.17	4.74	0.09	42.6	50.4	314	0.67	78.5
457780		2.54	0.001	0.01	0.85	4.5	<10	0.59	0.04	1.01	0.03	7.26	9.4	24	<0.05	13.8
457781		2.11	<0.001	0.04	0.95	0.9	<10	0.48	0.03	1.73	<0.02	10.65	7.3	27	0.05	9.7
457782		2.52	<0.001	0.03	2.27	1.3	<10	1.43	0.07	3.16	0.02	23.3	15.3	37	0.12	25.0
457783		2.36	<0.001	0.03	1.09	1.6	10	0.61	0.03	1.79	<0.02	15.50	9.9	27	0.09	15.4
457784		2.43	<0.001	0.09	0.93	6.6	10	0.55	0.04	4.16	0.02	16.25	13.5	25	0.22	12.0
457785		2.35	<0.001	0.01	0.79	3.0	10	0.55	0.02	9.09	0.03	10.25	9.0	22	0.29	8.8
457786		0.25	<0.001	<0.01	0.09	0.5	30	0.07	0.01	32.4	0.02	1.47	1.2	2	0.06	2.4
457787		2.19	<0.001	0.02	0.73	13.1	40	0.63	<0.01	5.78	<0.02	5.07	9.6	34	0.33	4.4
457788		2.31	<0.001	0.02	0.51	1.4	10	0.56	0.02	10.55	0.03	7.26	4.9	13	0.62	7.4
457789		3.05	<0.001	<0.01	1.83	19.9	310	0.73	0.01	6.09	0.02	6.48	13.6	45	0.88	19.3
457790		3.71	0.001	0.07	7.91	25.6	1240	1.13	0.02	3.43	0.08	9.73	59.3	174	11.75	168.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 8-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18173959**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457771		13.90	2.24	0.13	0.3	<0.005	0.010	0.07	3.8	1.9	2.87	9980	0.30	0.01	2.3	8.8
457772		18.95	3.22	0.13	0.4	<0.005	0.014	0.06	5.5	2.4	3.59	13050	0.27	<0.01	3.4	10.6
457773		19.50	3.61	0.14	0.4	<0.005	0.012	0.03	6.4	2.5	3.94	13300	0.31	<0.01	3.5	11.0
457774		20.0	3.67	0.12	0.4	<0.005	0.015	0.01	5.9	2.2	3.59	14300	0.38	<0.01	3.5	12.5
457775		18.85	5.30	0.13	0.6	0.007	0.013	<0.01	7.6	2.6	5.28	11950	0.33	<0.01	5.1	13.8
457776		23.4	6.79	0.14	0.8	0.006	0.021	<0.01	9.3	3.1	4.23	15950	0.77	<0.01	6.2	20.4
457777		16.60	4.33	0.12	0.5	<0.005	0.018	<0.01	5.2	2.4	2.62	12600	0.57	<0.01	3.9	12.7
457778		23.9	7.36	0.15	0.8	<0.005	0.019	<0.01	10.5	3.5	3.53	18700	0.56	<0.01	6.5	20.9
457779		7.47	17.45	0.14	3.1	0.050	0.063	0.99	21.0	8.6	5.47	1040	3.00	1.99	26.9	344
457780		18.05	4.11	0.12	0.4	<0.005	0.014	<0.01	3.9	2.3	2.53	14850	0.34	<0.01	3.1	15.8
457781		14.55	4.13	0.11	0.4	<0.005	0.015	0.01	5.8	2.4	2.23	11050	0.46	<0.01	3.1	12.2
457782		24.6	9.45	0.14	1.0	0.006	0.027	0.01	12.4	6.2	3.97	16100	1.20	<0.01	7.4	26.5
457783		15.00	4.51	0.11	0.5	0.008	0.016	0.02	8.2	3.5	2.34	11200	0.68	<0.01	4.4	14.0
457784		17.60	3.31	0.11	0.6	<0.005	0.011	0.06	8.8	3.7	3.30	14350	0.72	<0.01	5.1	16.4
457785		16.95	3.10	0.12	0.5	<0.005	0.010	0.08	5.7	3.6	4.97	12900	0.41	<0.01	3.4	10.4
457786		0.42	0.29	0.09	0.1	<0.005	<0.005	0.01	1.4	1.9	3.24	365	<0.05	0.04	0.3	0.3
457787		8.84	2.20	0.09	0.4	<0.005	0.009	0.25	2.6	3.8	2.89	6570	0.26	<0.01	3.3	11.5
457788		12.70	1.87	0.11	0.3	<0.005	0.010	0.17	4.1	3.7	5.03	8640	0.29	<0.01	2.3	5.4
457789		8.28	4.58	0.11	0.5	0.005	0.021	1.01	3.2	7.3	3.11	5470	0.26	0.01	2.1	20.1
457790		9.76	19.60	0.20	1.4	0.020	0.084	5.34	3.5	36.4	3.16	1480	0.21	0.05	3.8	108.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 8-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18173959**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457771		310	0.9	2.4	<0.002	0.08	0.09	1.6	1	0.2	21.8	0.12	0.10	0.42	0.052	0.03
457772		400	0.9	2.4	0.003	0.11	0.10	2.2	1	0.2	18.6	0.18	<0.05	0.58	0.071	0.04
457773		460	1.0	1.3	<0.002	0.11	0.12	2.6	1	0.2	21.2	0.22	<0.05	0.66	0.086	<0.02
457774		550	0.8	0.6	<0.002	0.14	0.11	2.7	1	<0.2	13.5	0.21	0.05	0.66	0.083	<0.02
457775		430	1.7	0.2	<0.002	0.09	0.17	3.2	1	<0.2	62.6	0.30	0.05	1.18	0.104	<0.02
457776		510	1.4	0.2	<0.002	0.25	0.18	4.2	1	0.2	23.7	0.34	0.10	1.67	0.122	<0.02
457777		360	0.8	0.2	<0.002	0.17	0.15	2.6	1	<0.2	9.5	0.23	<0.05	0.96	0.077	<0.02
457778		620	0.9	0.1	<0.002	0.21	0.18	4.3	1	0.2	12.3	0.39	0.07	1.67	0.134	<0.02
457779		1840	4.7	29.1	<0.002	0.03	0.34	20.3	<1	1.3	476	1.57	0.06	2.70	1.030	0.06
457780		380	0.8	0.2	<0.002	0.18	0.14	2.4	1	<0.2	7.3	0.18	0.05	0.88	0.066	<0.02
457781		360	0.7	0.3	<0.002	0.13	0.13	2.7	1	<0.2	11.2	0.17	<0.05	0.80	0.067	<0.02
457782		620	1.6	0.3	0.002	0.35	0.23	5.5	1	0.3	18.8	0.43	0.08	2.41	0.154	<0.02
457783		430	1.0	0.8	0.004	0.19	0.12	2.8	1	0.2	11.5	0.25	0.05	1.06	0.085	<0.02
457784		900	1.1	2.5	<0.002	0.13	0.13	2.7	1	0.3	22.2	0.32	0.06	0.96	0.080	0.05
457785		330	1.5	3.1	<0.002	0.07	0.09	2.4	1	0.2	44.2	0.21	0.05	0.80	0.084	0.06
457786		60	0.5	0.4	<0.002	<0.01	<0.05	0.3	1	<0.2	81.2	<0.05	<0.05	0.09	0.007	<0.02
457787		210	0.8	5.6	<0.002	0.03	0.07	3.7	1	0.3	23.6	0.12	<0.05	0.26	0.119	0.05
457788		330	1.3	5.4	<0.002	0.06	0.05	1.6	1	<0.2	44.7	0.12	<0.05	0.43	0.053	0.08
457789		330	1.0	16.4	<0.002	0.07	0.10	10.5	1	0.3	44.3	0.12	<0.05	0.32	0.184	0.16
457790		470	1.6	101.5	<0.002	0.19	0.36	53.4	1	0.6	50.4	0.24	<0.05	0.27	0.811	2.08



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 8-AOUT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18173959**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457771		0.2	42	0.5	3.4	8	11.8
457772		0.4	59	0.3	4.3	10	17.7
457773		0.4	70	0.4	4.7	12	20.8
457774		0.4	78	0.4	4.6	13	19.2
457775		1.0	98	0.4	6.5	16	26.3
457776		1.3	129	0.4	7.0	19	33.2
457777		0.9	89	0.4	4.4	14	20.9
457778		1.2	133	0.4	6.3	19	34.4
457779		0.6	146	3.1	19.5	103	131.5
457780		0.5	65	0.3	3.7	13	17.5
457781		0.7	75	0.6	3.8	11	17.8
457782		2.1	167	0.5	7.1	22	41.5
457783		0.9	87	0.5	4.4	13	23.1
457784		0.7	78	1.7	5.5	17	25.1
457785		0.4	68	0.7	4.3	13	19.5
457786		0.1	3	0.1	2.4	5	2.1
457787		0.2	54	0.5	2.7	10	14.8
457788		0.3	47	0.3	4.2	9	12.5
457789		0.2	105	0.6	3.3	17	18.7
457790		0.1	433	0.7	4.2	129	47.9



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **8-AOUT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18173959**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 6-AOUT-2018  
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## CERTIFICAT VO18173965

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Bon de commande #: KANDH18-PRIORITY-008

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 16-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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 plus les pages d'annexe  
 Finalisée date: 6-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18173965**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457791		1.85	<0.001	0.07	6.15	63.6	850	0.62	0.14	7.72	0.15	9.83	48.9	115	3.24	167.0
457792		2.14	0.001	0.11	7.17	61.3	860	0.70	0.06	5.17	0.11	9.30	48.7	145	2.43	175.5
457793		2.29	<0.001	0.13	8.72	69.9	1180	1.07	0.04	2.49	0.11	9.56	58.8	192	4.03	205
457794		2.34	<0.001	0.03	3.11	18.2	320	0.57	0.03	7.03	0.07	10.00	22.2	65	2.75	41.5
457795		2.18	<0.001	0.01	2.39	25.7	130	0.76	0.02	7.43	0.03	9.64	17.2	45	0.49	27.2
457796		2.22	<0.001	0.05	7.90	173.5	710	3.31	0.03	2.87	0.02	13.90	62.6	149	1.29	70.1
457797		2.32	<0.001	0.02	1.50	3.3	<10	0.19	0.03	9.42	0.07	13.35	11.5	28	0.19	85.6
457798		2.29	<0.001	0.03	3.29	69.7	230	1.38	0.03	5.20	0.02	11.40	25.1	72	0.60	46.2
457799		0.08	0.686	0.21	7.05	20.8	330	1.41	0.15	4.49	0.20	53.1	41.3	185	2.02	57.1
457800		2.60	<0.001	0.07	0.54	3.0	10	0.42	0.07	8.23	0.03	12.45	11.2	18	0.39	61.6
457801		2.40	<0.001	0.05	0.33	31.0	<10	0.34	0.03	9.80	0.03	8.80	12.6	11	0.27	27.7
457802		2.48	<0.001	0.04	0.48	1.9	<10	0.34	0.02	7.34	0.04	12.60	7.4	16	0.20	23.8
457803		2.45	<0.001	0.01	0.31	0.8	<10	0.26	0.01	9.33	0.05	8.05	2.0	12	0.24	3.4
457804		2.36	<0.001	0.04	0.50	0.8	<10	0.44	0.01	10.35	0.04	11.40	5.1	14	0.37	10.7
457805		2.27	0.003	0.10	0.43	0.7	10	0.24	1.08	8.60	0.13	8.83	5.0	14	0.73	6.5
457806		0.20	<0.001	0.01	0.06	<0.2	20	<0.05	0.18	32.7	0.02	1.42	0.5	2	<0.05	2.1
457807		2.23	<0.001	0.06	0.31	2.5	10	0.25	0.02	12.55	0.10	7.31	4.9	9	0.36	7.7
457808		2.47	<0.001	0.05	0.35	1.2	<10	0.24	0.04	9.97	0.07	10.20	6.8	13	0.28	11.8
457809		2.64	<0.001	0.09	0.31	2.9	10	0.40	0.11	9.94	0.04	10.05	5.7	12	0.45	24.1
457810		2.28	<0.001	0.19	0.83	3.8	10	0.62	0.14	10.25	0.03	17.45	9.1	23	1.32	11.1



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
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**CERTIFICAT D'ANALYSE VO18173965**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457791		6.68	13.40	0.12	1.3	0.021	0.066	3.11	3.7	20.1	3.59	1740	0.32	0.89	2.8	91.2
457792		4.78	14.95	0.12	1.5	0.022	0.076	3.56	3.2	19.9	2.55	1070	0.40	1.51	3.3	87.3
457793		4.56	21.2	0.13	1.9	0.024	0.103	4.93	3.0	29.4	1.84	707	0.50	1.12	4.4	113.5
457794		11.35	8.85	0.12	1.0	0.005	0.038	1.73	4.7	13.9	4.20	8520	0.52	0.02	3.9	30.1
457795		9.04	7.47	0.08	0.8	0.005	0.031	0.97	4.7	9.3	3.78	7570	0.45	0.02	3.2	19.5
457796		6.79	18.30	0.13	2.1	<0.005	0.097	4.45	5.9	21.3	2.16	5390	0.68	0.05	5.3	78.7
457797		14.15	5.16	0.10	0.6	<0.005	0.019	0.02	7.2	8.2	5.60	6040	0.52	0.01	4.8	13.9
457798		9.38	8.10	0.10	1.0	<0.005	0.047	1.67	5.5	9.3	3.20	5790	0.49	0.02	3.5	32.1
457799		7.30	19.75	0.13	3.8	0.019	0.074	0.87	22.8	14.2	2.89	929	2.57	1.72	20.1	138.0
457800		15.30	2.02	0.10	0.4	<0.005	0.016	0.06	6.7	3.3	5.20	4790	1.57	0.01	4.0	34.5
457801		13.50	1.32	0.08	0.3	0.005	0.011	0.04	4.7	3.0	5.48	5320	0.67	0.01	2.4	38.2
457802		13.20	1.87	0.09	0.4	0.005	0.010	0.03	6.8	3.3	4.57	5630	0.32	0.01	3.5	11.6
457803		8.09	1.14	0.08	0.3	0.012	0.008	0.03	4.2	3.1	4.06	3880	0.22	0.01	2.6	1.8
457804		14.65	2.11	0.10	0.4	<0.005	0.014	0.04	6.1	3.6	6.26	6850	0.30	<0.01	3.6	5.3
457805		11.90	1.76	0.09	0.3	0.006	0.014	0.07	4.8	3.0	4.97	6100	0.30	<0.01	2.8	6.4
457806		0.26	0.22	0.11	<0.1	<0.005	0.007	0.01	1.4	1.5	2.57	233	0.06	0.03	0.1	0.3
457807		12.05	1.61	0.08	0.2	<0.005	0.041	0.03	3.8	2.5	6.34	6540	0.44	<0.01	2.1	6.1
457808		14.45	1.85	0.10	0.3	0.009	0.039	0.02	5.3	2.2	5.68	8140	0.79	0.01	2.7	8.2
457809		14.30	1.61	0.10	0.3	0.009	0.065	0.03	5.1	2.4	5.13	8970	0.85	0.01	2.8	6.7
457810		17.10	3.95	0.13	0.5	0.008	0.039	0.11	9.2	4.3	5.93	8900	1.36	<0.01	4.9	15.7





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18173965**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457791		380	3.7	52.9	<0.002	0.17	0.22	35.2	1	0.7	110.5	0.17	<0.05	0.21	0.585	0.56
457792		460	2.4	48.4	<0.002	0.06	0.25	40.1	<1	0.7	73.0	0.20	<0.05	0.26	0.716	0.52
457793		550	2.6	63.2	<0.002	0.09	0.42	49.1	1	0.9	44.9	0.27	0.05	0.29	0.926	0.96
457794		450	1.4	36.4	<0.002	0.10	0.16	18.9	<1	0.4	75.7	0.22	<0.05	0.59	0.303	0.58
457795		360	1.3	17.4	<0.002	0.05	0.14	15.1	<1	0.4	71.5	0.17	<0.05	0.40	0.226	0.13
457796		650	1.1	78.1	<0.002	0.08	0.27	36.0	1	1.7	33.7	0.28	<0.05	0.55	0.769	0.57
457797		460	1.8	0.8	<0.002	0.27	0.07	6.1	2	<0.2	110.5	0.29	0.05	0.79	0.147	0.03
457798		500	1.2	32.3	<0.002	0.09	0.14	16.9	1	0.5	46.4	0.22	0.07	0.51	0.341	0.22
457799		1130	14.7	37.0	<0.002	0.02	1.13	18.5	1	1.8	347	1.16	<0.05	5.34	0.910	0.21
457800		600	2.0	3.1	<0.002	0.53	0.07	1.6	3	0.2	66.3	0.24	0.09	0.63	0.086	0.07
457801		360	1.7	2.1	<0.002	0.18	0.10	1.3	1	<0.2	78.1	0.14	<0.05	0.41	0.048	0.07
457802		470	1.5	1.5	<0.002	0.25	0.09	1.6	1	<0.2	76.9	0.20	0.05	0.59	0.067	0.05
457803		320	1.7	1.6	<0.002	0.04	0.07	1.0	1	<0.2	97.8	0.18	<0.05	0.50	0.042	0.05
457804		400	1.9	2.3	<0.002	0.14	0.08	1.5	1	<0.2	101.0	0.22	<0.05	0.69	0.068	0.07
457805		360	8.0	4.1	<0.002	0.13	0.06	1.0	1	0.3	131.0	0.18	1.00	0.56	0.050	0.19
457806		70	0.8	0.3	<0.002	0.01	0.05	0.2	1	<0.2	87.5	<0.05	0.25	0.07	0.005	<0.02
457807		280	2.9	2.0	<0.002	0.17	0.08	0.8	<1	<0.2	144.5	0.11	0.05	0.33	0.035	0.10
457808		490	2.5	1.3	<0.002	0.42	0.09	0.9	1	<0.2	94.0	0.15	0.06	0.43	0.044	0.06
457809		430	2.7	2.4	<0.002	0.65	0.06	0.9	1	0.4	66.2	0.14	0.07	0.45	0.034	0.10
457810		490	2.8	7.3	<0.002	0.55	0.06	2.2	1	0.8	66.9	0.26	0.06	1.02	0.073	0.36



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 6-AOUT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18173965**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457791		0.1	307	0.8	5.5	85	40.3
457792		0.1	386	1.3	4.4	82	50.1
457793		0.1	491	2.1	4.5	80	66.7
457794		0.3	173	1.0	4.6	45	37.7
457795		0.2	135	0.8	4.2	29	29.7
457796		0.3	412	4.1	5.7	24	69.2
457797		0.5	112	0.3	5.4	45	27.4
457798		0.3	177	1.7	5.1	22	38.7
457799		1.2	149	2.1	20.2	130	149.0
457800		0.3	43	0.7	6.1	15	18.7
457801		0.2	26	0.3	4.8	11	11.8
457802		0.4	36	0.3	5.2	13	16.7
457803		0.3	22	0.5	4.8	12	12.5
457804		0.4	33	0.4	5.3	12	18.8
457805		0.3	29	0.2	4.4	21	13.7
457806		0.1	1	0.2	2.4	9	1.5
457807		0.2	22	0.2	4.4	15	9.9
457808		0.2	26	0.1	5.0	15	12.6
457809		0.4	20	0.2	5.6	12	13.3
457810		0.9	42	0.8	6.8	24	23.2



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **6-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

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## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 5-AOUT-2018  
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## CERTIFICAT VO18173969

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Bon de commande #: KANDH18-PRIORITY-009

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 16-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 5-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18173969**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457811		2.37	<0.001	0.05	0.46	1.9	10	0.38	0.09	12.05	0.02	8.70	4.1	21	0.76	5.2
457812		2.36	0.001	0.03	0.27	5.8	10	0.23	0.09	8.53	<0.02	8.69	3.6	15	0.51	4.9
457813		2.30	0.013	0.02	0.34	7.2	10	0.24	0.06	6.57	0.02	11.05	3.7	23	0.83	3.4
457814		2.51	<0.001	0.04	0.08	2.5	10	0.34	0.09	8.58	<0.02	5.10	3.4	9	0.36	16.3
457815		2.28	0.002	0.08	0.26	3.5	10	0.35	0.18	11.90	0.02	7.58	5.3	8	1.34	14.7
457816		2.52	0.001	0.03	0.18	1.4	10	0.70	0.05	12.05	0.02	6.93	2.4	6	0.92	4.8
457817		2.67	0.001	0.02	0.15	1.6	10	0.54	0.04	13.00	0.03	5.37	2.2	7	1.52	3.9
457818		2.49	<0.001	0.05	0.21	1.5	10	0.24	0.08	9.81	0.08	5.19	4.3	5	1.53	13.1
457819		0.08	7.43	1.34	6.08	34.7	300	0.99	0.46	3.04	0.07	30.1	41.7	294	0.64	113.5
457820		1.95	0.003	0.07	0.29	1.2	10	0.38	0.06	12.85	0.05	6.69	3.0	11	0.91	5.4
457821		2.31	0.001	0.04	0.35	0.9	10	0.39	0.06	13.65	0.06	8.94	3.2	8	1.23	4.9
457822		2.25	0.001	0.10	0.14	0.4	10	0.32	0.07	11.80	0.10	7.77	3.7	5	0.62	8.9
457823		2.29	0.001	0.02	0.16	1.2	10	0.33	0.03	14.65	0.07	8.95	2.0	5	0.52	2.7
457824		2.52	<0.001	0.03	0.16	5.4	10	0.38	0.02	17.10	0.20	7.64	2.9	5	0.57	1.1
457825		2.46	0.157	0.07	0.54	1.0	20	0.29	0.02	11.65	0.39	7.73	3.1	4	1.34	6.7
457826		0.47	<0.001	4.55	0.06	<0.2	20	0.05	0.01	33.0	<0.02	1.14	1.2	1	0.07	1.6
457827		2.45	0.044	0.12	0.25	1.3	20	0.22	0.03	6.60	0.16	7.24	3.2	6	0.42	11.4
457828		2.59	0.018	0.07	0.21	1.1	10	0.22	0.02	9.33	0.18	10.55	2.6	6	0.23	8.3
457829		2.44	0.007	0.04	0.34	0.7	10	0.23	0.02	13.45	0.50	9.54	2.3	5	0.40	7.2
457830		2.42	0.005	0.11	0.53	1.3	10	0.27	0.04	12.30	0.40	6.47	3.8	4	0.35	18.2



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 5-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18173969**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
457811		10.50	1.99	0.05	0.3	0.012	0.061	0.06	4.4	2.8	5.85	3520	0.48	0.01	2.1	7.1
457812		11.45	1.08	0.05	0.2	0.005	0.099	0.04	4.2	1.8	4.93	2850	0.28	0.01	2.1	3.3
457813		10.85	1.49	0.05	0.2	0.006	0.053	0.06	4.9	2.3	4.30	2980	0.64	0.01	3.3	5.6
457814		15.30	0.54	0.06	0.1	0.008	0.073	0.02	2.8	1.0	5.17	6520	0.32	0.01	0.8	2.0
457815		12.65	1.12	<0.05	0.1	0.011	0.026	0.07	4.3	1.7	5.98	4140	0.60	0.01	1.3	4.2
457816		14.60	0.91	<0.05	0.1	0.010	0.028	0.05	4.0	1.4	6.67	4330	0.32	0.01	1.1	1.6
457817		13.35	0.68	0.05	0.1	0.008	0.045	0.05	3.1	1.3	6.65	4940	0.36	0.02	0.8	1.2
457818		13.60	0.92	<0.05	0.1	0.005	0.048	0.05	2.8	1.1	5.25	5600	0.80	0.01	0.9	2.2
457819		5.60	15.00	0.07	2.4	0.175	0.054	1.04	13.4	15.2	4.01	781	6.16	1.18	15.7	245
457820		13.55	1.46	0.05	0.2	0.014	0.037	0.04	3.8	1.8	6.23	6950	0.58	0.01	1.3	3.2
457821		12.70	1.69	<0.05	0.1	0.014	0.031	0.09	5.1	2.5	7.04	4320	0.54	0.01	1.4	2.9
457822		14.95	0.67	0.05	0.1	0.008	0.053	0.04	4.5	1.5	6.39	5180	0.53	0.01	0.9	2.4
457823		12.40	0.73	<0.05	0.1	0.013	0.041	0.03	4.9	2.0	7.04	4820	0.50	0.01	1.1	2.0
457824		11.05	0.64	<0.05	0.1	0.009	0.014	0.04	3.7	2.2	7.39	5160	0.66	0.01	1.0	4.1
457825		14.95	1.61	0.05	0.1	0.011	0.028	0.09	3.9	3.8	5.77	7730	0.91	0.01	0.8	1.9
457826		0.24	0.21	0.09	<0.1	<0.005	0.012	0.01	1.2	1.2	2.67	206	<0.05	0.03	0.1	<0.2
457827		17.75	0.87	0.05	0.1	<0.005	0.021	0.06	4.1	2.2	4.38	9620	0.60	0.01	0.6	2.1
457828		19.00	0.85	0.07	0.1	0.014	0.019	0.05	6.2	2.5	5.67	9720	0.61	0.01	0.6	1.7
457829		16.70	1.25	0.06	0.1	0.009	0.029	0.08	5.5	2.9	6.45	9490	0.67	0.01	0.5	1.7
457830		18.70	1.90	0.08	0.1	0.009	0.030	0.06	3.7	4.1	6.14	8830	1.41	0.01	0.6	4.8



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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<b>CERTIFICAT D'ANALYSE VO18173969</b>
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Description échantillon	Méthode élément unités LDI		ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457811	350	2.1	4.0	<0.002	0.27	0.08	1.4	1	0.4	89.6	0.10	<0.05	0.49	0.040	0.17
457812	330	0.9	2.6	<0.002	0.30	0.08	0.8	1	0.4	47.2	0.09	<0.05	0.35	0.027	0.10
457813	390	0.6	4.2	<0.002	0.17	0.08	1.1	1	0.5	44.2	0.10	<0.05	0.71	0.026	0.19
457814	340	1.3	1.2	<0.002	0.48	0.12	0.3	1	0.2	44.8	<0.05	0.05	0.12	0.007	0.04
457815	430	2.2	3.5	<0.002	0.70	0.13	0.6	1	0.3	82.5	0.07	0.09	0.28	0.014	0.13
457816	440	1.5	2.7	<0.002	0.24	0.10	0.5	1	0.2	73.3	0.05	<0.05	0.21	0.012	0.11
457817	240	1.4	2.2	<0.002	0.19	0.12	0.4	1	<0.2	82.2	<0.05	<0.05	0.18	0.009	0.03
457818	270	1.6	2.4	<0.002	0.45	0.13	0.3	1	<0.2	90.6	0.06	0.07	0.15	0.007	0.06
457819	1100	8.8	38.1	<0.002	0.09	0.81	21.4	1	1.0	278	0.87	0.22	2.16	0.666	0.20
457820	300	1.3	1.7	<0.002	0.22	0.11	0.8	1	<0.2	91.9	0.06	<0.05	0.35	0.019	0.05
457821	420	1.7	4.6	<0.002	0.21	0.11	0.8	1	0.2	108.0	0.06	0.05	0.34	0.018	0.21
457822	580	2.1	2.3	<0.002	0.62	0.11	0.4	2	0.2	119.0	<0.05	0.08	0.19	0.010	0.09
457823	550	2.1	1.6	<0.002	0.13	0.13	0.4	1	0.2	134.5	0.05	<0.05	0.32	0.011	0.06
457824	260	2.9	2.4	<0.002	0.02	0.10	0.5	1	<0.2	269	0.05	<0.05	0.37	0.012	0.10
457825	300	3.4	5.4	<0.002	0.59	0.08	0.7	1	0.2	288	0.08	0.06	0.19	0.009	0.30
457826	70	<0.5	0.4	<0.002	0.01	0.07	0.2	1	<0.2	83.5	<0.05	<0.05	0.07	0.005	<0.02
457827	360	1.5	3.4	<0.002	0.95	0.08	0.3	1	<0.2	104.5	0.07	0.05	0.22	0.007	0.14
457828	710	2.0	2.4	<0.002	0.55	0.08	0.4	1	<0.2	122.5	0.05	<0.05	0.21	0.008	0.09
457829	410	3.4	3.7	<0.002	0.51	0.11	0.6	1	<0.2	380	<0.05	<0.05	0.20	0.006	0.13
457830	610	5.7	2.6	<0.002	1.18	0.08	0.7	2	<0.2	290	0.06	0.06	0.14	0.006	0.12



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 5-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18173969**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457811		0.5	21	0.4	5.7	9	10.7
457812		0.2	19	0.2	3.9	7	7.6
457813		0.4	18	0.2	3.9	8	7.3
457814		0.1	9	0.2	4.0	6	2.9
457815		0.5	17	0.2	5.5	7	6.2
457816		0.3	13	0.2	5.6	8	5.3
457817		0.2	13	0.3	4.7	8	4.2
457818		0.2	14	0.2	4.4	14	4.2
457819		0.5	143	9.3	14.3	82	95.2
457820		0.4	25	0.2	4.9	12	7.4
457821		0.6	28	0.2	5.8	15	6.7
457822		0.3	12	0.2	5.7	16	3.6
457823		0.3	13	0.2	5.6	14	4.2
457824		0.2	11	0.2	5.6	17	4.1
457825		0.9	24	0.1	6.2	43	4.3
457826		0.2	1	<0.1	2.2	3	1.4
457827		0.7	13	0.1	4.9	34	5.6
457828		0.3	15	0.2	6.7	36	5.2
457829		0.3	21	0.1	6.7	52	5.0
457830		0.2	25	0.1	7.2	69	5.0





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **5-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18173969**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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 Compte: MINVIR

**CERTIFICAT VO18173970**

Projet: Kan  
 Bon de commande #: KANDH18-PRIORITY-011  
 Ce rapport s'applique aux 6 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 16-JUIL-2018.  
 Les résultats sont transmis à:

GLENN ASCH SIMON HOULE LIZ STOCK	PAUL DOBAK AUDREY ROUSSEL-LALIER CORPORATIF WEBTRIEVE	SIMON HEBERT LEE SCHOLL
--	---	----------------------------

PRÉPARATION ÉCHANTILLONS	
CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
LOG-QC	Test QC sur échantillons pulpe
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

PROCÉDURES ANALYTIQUES		
CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-AOUT-2018  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18173970**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457845		3.39	0.044	0.05	0.68	1.3	10	1.03	0.03	2.46	0.03	10.35	6.1	17	<0.05	6.5
457846		0.06	2.65	0.43	6.69	11.8	320	1.20	0.14	4.84	0.08	42.8	52.1	312	0.63	81.3
457847		2.30	0.007	0.03	0.53	2.2	<10	0.83	0.03	1.91	0.02	8.24	8.0	22	<0.05	11.6
457848		2.60	0.006	0.02	0.45	3.6	<10	0.74	0.02	1.99	<0.02	7.35	6.0	17	<0.05	5.8
457849		2.52	0.006	0.03	0.51	2.2	<10	0.91	0.02	2.68	0.02	10.90	7.2	22	0.17	6.6
457850		2.48	0.022	0.04	0.70	11.3	20	1.23	0.03	2.08	0.03	14.15	9.1	17	2.10	6.8



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 9-AOUT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18173970**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457845		16.00	2.98	<0.05	0.4	<0.005	0.012	0.01	5.3	2.5	2.70	13600	0.65	0.01	3.0	9.0
457846		7.28	16.55	0.06	3.1	0.057	0.059	0.95	21.7	8.8	5.43	1040	2.81	1.92	27.8	344
457847		16.60	2.25	<0.05	0.3	<0.005	0.010	0.01	4.4	2.1	2.82	12500	0.31	0.01	2.8	8.4
457848		14.75	1.96	<0.05	0.3	<0.005	0.010	0.01	4.0	1.7	2.59	10900	0.25	<0.01	2.5	7.0
457849		17.30	2.40	<0.05	0.4	<0.005	0.010	0.01	5.4	1.6	3.19	12150	0.21	0.01	3.5	7.7
457850		20.0	3.26	0.05	0.5	<0.005	0.014	0.13	7.1	8.1	3.21	14050	0.63	0.06	4.9	10.8



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18173970**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
457845		440	1.2	0.2	<0.002	0.10	0.08	2.1	1	<0.2	19.2	0.17	0.08	0.55	0.071	<0.02
457846		1820	4.5	30.4	<0.002	0.04	0.31	21.5	1	1.2	467	1.49	0.10	2.49	1.035	0.06
457847		380	1.3	0.4	<0.002	0.13	0.08	1.7	1	<0.2	17.7	0.15	0.05	0.44	0.066	<0.02
457848		320	1.2	0.3	<0.002	0.09	0.07	1.5	1	<0.2	18.1	0.13	<0.05	0.42	0.057	<0.02
457849		370	1.5	0.5	<0.002	0.11	0.09	1.6	1	<0.2	27.4	0.17	0.05	0.50	0.073	<0.02
457850		530	1.9	4.2	<0.002	0.10	0.14	2.0	1	0.3	29.5	0.26	0.07	0.71	0.092	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18173970**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457845		0.4	60	0.3	6.0	17	17.4
457846		0.6	145	2.9	20.3	104	137.0
457847		0.2	47	0.2	5.4	12	15.5
457848		0.3	39	0.2	5.2	10	13.1
457849		0.2	43	0.3	6.5	10	17.7
457850		0.4	53	0.6	7.8	18	25.7



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **9-AOUT-2018**  
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**CERTIFICAT D'ANALYSE VO18173970**

<b>COMMENTAIRE DE CERTIFICAT</b>													
	<b>COMMENTAIRES ANALYTIQUES</b>												
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61												
	<b>ADRESSE DE LABORATOIRE</b>												
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.												
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>LOG-QC</td> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	LOG-QC	PUL-31	PUL-QC	SPL-21	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
LOG-QC	PUL-31	PUL-QC	SPL-21										
WEI-21													
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.												
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61									
Au-ICP21	Hg-MS42	ME-MS61											



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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## CERTIFICAT VO18173986

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-010

Ce rapport s'applique aux 14 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 17-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18173986**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457831		2.61	0.062	0.24	0.90	0.9	20	0.22	0.06	9.30	0.39	9.07	9.2	4	0.69	32.9
457832		2.49	0.899	0.17	0.59	0.9	20	0.21	0.07	11.60	0.42	8.14	3.9	5	0.36	31.5
457833		2.47	0.096	0.10	0.32	3.4	30	0.28	0.05	9.14	0.24	11.25	4.5	7	0.91	19.2
457834		2.51	0.405	0.16	0.31	0.9	30	0.30	0.06	9.10	0.19	7.10	4.4	6	0.81	31.7
457835		2.34	0.261	0.07	0.18	1.2	10	0.29	0.04	7.01	0.17	5.44	2.7	9	0.21	13.7
457836		2.19	0.247	1.50	0.15	1.3	10	0.35	0.03	6.74	0.16	9.91	2.6	7	0.16	6.5
457837		2.51	0.010	0.08	0.11	0.4	10	0.28	0.04	4.93	0.08	7.39	2.5	5	0.09	5.5
457838		2.26	0.001	0.03	0.10	4.6	10	0.42	0.02	6.39	0.06	8.72	3.1	4	0.10	5.3
457839		0.07	0.670	0.18	7.24	20.7	340	1.58	0.15	4.53	0.23	49.4	42.5	189	1.94	55.2
457840		2.70	<0.001	0.04	0.13	4.1	10	0.36	0.01	3.82	0.05	6.11	2.4	10	0.05	2.4
457841		2.23	0.004	0.10	0.17	14.6	10	0.71	0.03	6.01	0.04	6.86	2.7	12	0.07	7.3
457842		2.20	<0.001	0.10	0.13	1.7	10	0.39	0.04	3.49	0.05	6.58	2.0	9	0.12	27.1
457843		2.77	<0.001	0.10	0.09	0.6	<10	0.29	0.01	1.06	0.15	8.50	2.0	13	<0.05	8.8
457844		0.23	<0.001	<0.01	0.05	0.2	20	0.08	0.01	34.9	<0.02	0.86	0.6	2	<0.05	1.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 5-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18173986**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457831		20.9	2.95	0.15	0.1	0.008	0.032	0.08	5.7	5.7	5.31	8280	1.97	0.02	1.0	5.1
457832		19.60	2.16	0.14	0.1	0.007	0.029	0.06	4.9	3.7	5.81	8930	1.71	0.01	0.6	3.7
457833		18.30	1.15	0.15	0.2	0.010	0.014	0.10	7.4	2.7	5.22	7590	1.74	0.01	0.9	4.5
457834		17.90	1.15	0.14	0.1	<0.005	0.011	0.08	4.4	2.5	5.17	5740	1.08	0.01	0.9	4.1
457835		18.20	0.70	0.13	0.1	0.007	0.008	0.03	3.5	1.8	4.42	6750	0.83	0.01	0.5	3.5
457836		19.30	0.74	0.14	0.1	0.006	0.008	0.04	6.2	1.7	4.54	8830	1.25	0.01	0.8	4.9
457837		19.60	0.66	0.14	0.1	<0.005	0.009	0.02	4.8	1.4	3.94	9490	0.97	0.01	1.0	2.6
457838		23.7	0.75	0.14	0.1	0.005	0.007	0.01	5.7	1.8	4.85	12650	0.71	0.01	1.1	2.5
457839		7.45	20.2	0.16	3.8	0.021	0.073	0.89	20.8	14.5	3.01	1000	2.50	1.74	19.2	144.0
457840		18.75	0.80	0.14	0.1	0.005	0.006	0.01	4.1	2.0	3.52	9760	0.94	<0.01	1.1	3.2
457841		14.35	0.87	0.12	0.1	0.006	0.006	0.02	4.3	2.2	3.75	5590	1.16	0.01	1.1	5.6
457842		14.65	0.79	0.13	0.1	0.007	0.006	0.03	4.0	2.0	2.95	4410	1.18	0.01	0.8	8.8
457843		12.60	0.98	0.11	0.1	<0.005	0.017	0.01	5.1	1.8	2.01	3830	0.41	<0.01	0.8	2.9
457844		0.17	0.10	0.08	<0.1	<0.005	<0.005	0.01	1.1	0.9	1.32	105	0.05	0.03	0.1	<0.2



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Page: 2 - C  
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 plus les pages d'annexe  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18173986**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457831		310	4.8	4.2	0.002	2.74	0.08	0.7	2	0.2	256	0.14	0.16	0.14	0.006	0.19
457832		270	5.4	2.1	<0.002	1.88	0.14	0.8	1	0.2	272	0.06	0.14	0.18	0.007	0.07
457833		470	4.7	5.2	<0.002	1.39	0.11	0.6	1	0.2	147.5	0.07	0.10	0.30	0.011	0.25
457834		260	4.0	4.4	<0.002	1.81	0.11	0.4	1	<0.2	119.5	0.07	0.10	0.20	0.008	0.23
457835		410	3.6	1.4	<0.002	1.01	0.08	0.3	1	<0.2	85.0	<0.05	0.08	0.10	0.005	0.04
457836		620	3.0	1.7	<0.002	0.54	0.09	0.6	1	0.2	63.2	<0.05	0.05	0.20	0.010	0.05
457837		740	3.3	0.8	<0.002	0.64	0.08	0.3	<1	0.2	29.9	<0.05	<0.05	0.12	0.006	<0.02
457838		1100	3.6	0.5	<0.002	0.36	0.14	0.3	<1	0.2	36.8	<0.05	<0.05	0.11	0.006	<0.02
457839		1190	14.4	33.3	<0.002	0.02	1.12	19.2	<1	1.8	357	1.20	<0.05	4.85	0.950	0.17
457840		450	2.4	0.5	<0.002	0.16	0.08	0.4	<1	<0.2	18.8	<0.05	<0.05	0.13	0.008	<0.02
457841		340	3.3	0.8	<0.002	0.60	0.26	0.5	<1	0.2	26.0	<0.05	0.07	0.15	0.007	0.06
457842		270	4.0	1.2	<0.002	0.87	0.08	0.3	<1	<0.2	16.8	0.05	<0.05	0.14	<0.005	0.12
457843		190	8.4	0.4	<0.002	0.99	0.06	0.2	<1	<0.2	8.8	<0.05	<0.05	0.10	<0.005	<0.02
457844		60	<0.5	0.2	<0.002	0.01	0.06	0.1	<1	<0.2	79.6	<0.05	<0.05	0.06	0.005	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 5-AOUT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18173986**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
457831		0.5	35	0.2	6.0	78	3.7
457832		0.6	27	0.1	7.3	67	6.8
457833		0.8	19	0.3	6.5	43	7.7
457834		0.5	16	0.2	5.0	32	4.5
457835		0.4	12	0.1	4.9	29	3.1
457836		1.1	15	0.3	6.4	33	6.3
457837		2.3	12	0.2	6.0	22	3.2
457838		4.3	13	0.3	7.9	25	3.4
457839		1.2	153	2.2	19.0	137	151.5
457840		2.0	14	0.2	5.3	24	4.2
457841		2.4	16	0.2	5.4	19	5.3
457842		1.6	11	0.1	4.0	28	4.6
457843		0.5	11	0.1	2.9	49	4.1
457844		0.1	1	<0.1	1.9	3	1.2



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **5-AOUT-2018**  
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**CERTIFICAT D'ANALYSE VO18173986**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 9-AOUT-2018  
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## CERTIFICAT VO18174626

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Bon de commande #: KANDH18-044

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 17-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-AOUT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18174626**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456861		4.96	0.020	0.98	3.21	18.4	90	0.88	0.14	2.39	7.49	49.4	13.9	50	1.85	270
456862		4.34	0.027	1.12	2.14	12.4	70	0.99	0.21	2.07	11.60	48.4	10.1	51	1.47	295
456863		2.86	0.034	1.25	1.97	18.8	90	1.06	0.26	1.20	15.30	44.8	11.6	51	1.89	392
456864		1.78	0.014	0.97	5.13	17.0	130	2.14	0.20	1.11	7.27	53.0	30.1	70	3.47	467
456865		2.69	0.004	0.60	0.96	22.1	10	0.22	0.14	2.26	0.29	24.6	19.8	44	0.21	276
456866		3.70	0.007	0.51	2.06	14.9	80	0.85	0.15	1.01	5.46	41.7	11.7	55	1.08	145.0
456867		4.63	0.002	0.59	8.29	8.9	260	2.16	0.17	0.99	1.47	89.1	17.9	101	4.38	168.0
456868		4.22	0.027	1.97	4.37	12.8	140	1.40	0.25	1.66	11.75	50.0	19.1	70	1.70	559
456869		0.07	7.76	1.34	6.23	34.8	320	1.01	0.47	3.08	0.10	31.6	41.4	326	0.66	114.0
456870		4.20	0.056	2.45	2.66	29.9	90	1.17	0.29	2.41	19.05	54.1	16.1	57	1.70	332
456871		4.05	0.022	1.40	6.17	62.7	80	2.40	0.25	1.06	9.06	66.1	27.6	90	2.85	221
456872		4.66	0.021	1.18	5.22	85.4	60	1.36	0.26	1.09	6.05	51.8	36.7	85	2.10	326
456873		4.75	0.028	1.60	4.70	56.9	140	1.51	0.18	2.25	7.73	45.1	18.1	74	2.08	325
456874		4.80	0.035	1.62	4.23	99.8	60	1.21	0.25	1.82	8.78	54.1	23.0	65	1.93	374
456875		4.67	0.030	1.37	4.22	237	50	1.39	0.43	1.03	7.44	41.8	28.7	61	1.95	96.2
456876		0.20	<0.001	0.01	0.06	0.5	20	0.05	0.01	34.1	0.06	0.90	0.8	1	<0.05	1.9
456877		4.64	0.032	1.30	4.45	231	60	1.21	0.30	1.68	7.72	49.4	22.4	62	1.98	116.5
456878		4.92	0.036	1.05	5.42	150.0	70	1.31	0.29	1.84	6.46	59.1	19.6	84	2.15	99.5
456879		4.20	0.023	0.82	7.74	85.4	130	1.19	0.22	1.05	4.51	57.3	25.1	80	2.64	178.5
456880		4.73	0.025	0.79	8.90	57.4	180	1.36	0.20	0.69	1.94	57.4	27.6	95	3.18	218



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 9-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18174626**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456861		13.55	8.30	0.10	1.6	0.274	0.082	1.09	26.5	20.5	1.40	2060	41.1	0.07	3.2	141.0
456862		11.00	6.07	0.10	1.3	0.466	0.085	0.72	27.0	18.1	1.22	1730	59.0	0.03	2.4	114.5
456863		7.77	5.47	0.10	1.3	0.596	0.123	0.80	27.7	12.9	0.55	534	84.5	0.03	2.0	124.5
456864		17.45	13.15	0.16	2.1	0.276	0.092	2.33	30.4	22.9	0.80	754	23.5	0.07	4.4	242
456865		11.10	2.89	0.06	0.5	0.040	0.006	0.13	11.0	12.6	1.53	2240	7.35	0.01	0.8	110.0
456866		6.70	5.67	0.08	1.1	0.233	0.074	0.76	22.8	12.2	0.66	586	30.7	0.04	2.0	71.1
456867		9.51	20.8	0.13	6.6	0.059	0.076	3.77	49.6	28.4	0.91	401	15.65	0.15	36.1	106.5
456868		22.5	12.45	0.13	2.1	0.181	0.110	1.99	28.2	12.3	1.08	878	32.6	0.08	5.0	214
456869		5.64	14.40	0.06	2.3	0.202	0.047	1.07	16.3	15.7	4.09	754	5.87	1.21	16.6	255
456870		14.85	6.97	0.15	1.9	0.341	0.085	1.13	35.1	7.5	1.17	1300	144.0	0.07	5.8	190.5
456871		13.25	17.05	0.15	3.6	0.218	0.081	2.94	37.4	16.0	0.86	643	52.3	0.11	7.5	157.5
456872		19.05	14.95	0.14	2.0	0.187	0.119	2.27	29.3	15.1	1.00	722	30.1	0.09	5.2	181.5
456873		14.30	11.00	0.14	1.9	0.118	0.082	2.19	27.9	9.5	1.08	1120	77.1	0.09	5.1	267
456874		18.30	11.60	0.14	2.1	0.198	0.090	1.80	31.7	11.2	1.12	726	70.9	0.08	6.3	225
456875		18.00	10.80	0.17	1.6	0.370	0.058	1.95	25.8	12.8	0.67	305	58.4	0.07	8.2	184.0
456876		0.16	0.20	<0.05	<0.1	<0.005	<0.005	0.02	1.0	1.2	1.45	87	0.26	0.03	0.1	0.7
456877		17.15	10.85	0.14	1.5	0.399	0.099	2.13	29.9	12.1	0.83	334	64.4	0.08	8.3	219
456878		14.55	13.45	0.14	1.7	0.271	0.092	2.53	35.3	11.3	0.95	316	35.9	0.10	8.1	155.0
456879		11.80	18.85	0.13	3.5	0.180	0.091	3.58	33.0	11.0	0.61	135	16.55	0.15	6.7	150.0
456880		11.05	21.2	0.12	3.4	0.117	0.076	4.18	33.1	12.7	0.74	144	13.55	0.17	5.3	124.5





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18174626**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456861		1580	26.5	31.6	0.035	7.41	2.86	6.1	12	0.7	58.2	0.20	0.31	3.08	0.090	1.49
456862		2410	30.9	24.0	0.056	5.98	3.95	4.3	12	0.5	53.2	0.14	0.37	3.09	0.052	1.00
456863		2060	30.6	27.7	0.074	4.87	4.24	4.3	13	0.7	37.8	0.13	0.40	2.98	0.048	1.22
456864		840	21.3	66.7	0.032	>10.0	2.30	7.3	24	1.3	42.9	0.26	0.32	4.08	0.122	2.60
456865		1290	14.6	4.1	0.008	6.01	1.61	1.8	10	<0.2	52.9	0.05	0.29	1.17	0.018	0.20
456866		2190	17.9	23.2	0.032	4.14	1.85	4.2	8	0.5	34.6	0.11	0.20	2.64	0.052	0.87
456867		420	15.3	98.8	0.022	5.31	1.27	18.0	4	2.7	49.6	1.68	0.26	7.69	0.311	3.58
456868		400	48.7	55.5	0.030	>10.0	2.85	9.8	9	2.0	45.8	0.33	0.94	3.99	0.104	2.57
456869		1130	9.0	37.6	<0.002	0.10	0.75	21.0	1	0.9	284	0.88	0.26	1.23	0.691	0.19
456870		2560	82.2	35.8	0.102	9.83	6.36	5.9	22	1.0	64.2	0.38	0.55	3.66	0.089	2.09
456871		870	54.8	78.6	0.041	>10.0	4.00	12.9	13	2.1	37.5	0.44	0.85	5.17	0.161	4.15
456872		550	55.1	63.8	0.028	>10.0	3.44	10.7	9	2.5	37.3	0.33	1.11	4.30	0.123	3.36
456873		1810	46.1	56.5	0.050	>10.0	3.42	10.5	18	1.2	57.7	0.32	0.30	3.13	0.151	3.22
456874		780	63.1	51.7	0.056	>10.0	3.79	8.1	13	1.6	44.1	0.42	0.66	4.32	0.113	2.88
456875		320	109.5	56.9	0.052	>10.0	7.77	8.2	14	1.1	25.7	0.49	0.76	3.61	0.131	3.59
456876		50	0.7	0.4	<0.002	0.05	0.05	0.2	1	<0.2	79.0	<0.05	<0.05	0.07	0.006	0.02
456877		560	104.0	57.3	0.059	>10.0	7.67	8.3	12	1.0	33.6	0.61	0.54	4.19	0.129	3.72
456878		350	73.1	67.5	0.040	>10.0	4.75	9.7	9	1.1	40.2	0.49	0.47	4.40	0.153	3.95
456879		220	50.2	84.7	0.020	>10.0	2.72	14.9	5	1.7	29.3	0.42	0.49	4.80	0.190	4.68
456880		210	47.1	96.4	0.018	9.64	2.49	17.3	4	1.6	30.6	0.33	0.51	4.86	0.224	5.11



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 9-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18174626**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
456861		23.2	436	0.9	16.2	1310	64.1
456862		34.8	682	1.1	22.4	2030	53.5
456863		44.4	862	1.5	26.2	2700	51.5
456864		17.4	410	1.3	11.4	1320	82.7
456865		4.8	137	0.4	7.1	80	20.3
456866		21.1	398	0.7	16.2	1020	46.9
456867		15.5	193	1.7	15.4	283	268
456868		15.5	302	0.9	9.6	2110	89.2
456869		0.6	146	8.4	15.0	88	98.4
456870		57.4	1200	2.4	34.6	3160	82.3
456871		26.1	508	1.5	24.1	1540	151.0
456872		15.7	344	1.0	13.5	1290	86.8
456873		36.2	690	1.7	23.1	1470	81.5
456874		31.4	734	2.0	20.0	1590	91.1
456875		24.1	565	1.9	16.4	1290	67.6
456876		0.2	2	<0.1	2.1	14	1.4
456877		29.2	588	1.9	15.4	1420	65.9
456878		20.6	343	1.5	10.9	1220	75.4
456879		14.6	211	1.1	13.1	984	138.0
456880		13.9	201	1.2	11.1	440	135.0



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
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Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18174626**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
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**CERTIFICAT VO18174629**

Projet: Kan  
Bon de commande #: KANDH18-045  
Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 17-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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**CERTIFICAT D'ANALYSE VO18174629**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456881		4.56	0.048	0.92	4.80	127.5	110	0.95	0.23	4.40	4.37	38.5	21.2	57	1.77	144.0
456882		2.80	0.097	1.65	3.06	182.5	60	0.94	0.32	1.02	14.35	45.5	29.1	63	1.81	155.5
456883		3.17	0.053	1.74	4.31	49.0	90	1.31	0.56	2.05	19.95	55.5	11.9	59	1.73	256
456884		1.74	0.040	1.25	3.37	49.2	70	1.00	0.59	2.89	21.0	32.0	21.1	46	1.53	269
456885		4.32	0.062	1.94	3.23	274	80	0.99	0.39	0.70	7.33	41.7	23.2	52	1.76	97.8
456886		3.57	0.028	1.99	3.80	205	50	1.56	0.35	1.11	15.55	48.9	23.1	62	2.12	152.5
456887		3.72	0.027	1.53	2.25	43.6	90	1.42	0.23	2.05	21.3	55.1	22.2	55	2.17	595
456888		3.80	0.035	2.50	2.12	48.3	70	1.28	0.29	2.40	11.95	56.0	21.9	53	1.85	576
456889		0.06	0.673	0.19	7.50	19.0	350	1.34	0.15	4.45	0.22	51.6	41.0	188	1.98	53.6
456890		4.20	0.030	2.29	3.08	52.4	90	1.77	0.27	2.25	13.10	58.4	18.6	60	2.17	398
456891		4.71	0.030	1.85	4.61	130.0	70	2.39	0.39	1.37	12.35	44.0	19.8	63	2.39	205
456892		3.50	0.054	2.18	2.99	78.4	100	1.60	0.33	1.30	22.0	44.1	25.3	60	1.94	334
456893		3.89	0.059	2.44	2.99	78.3	100	1.50	0.34	1.37	20.0	46.5	21.8	56	2.15	355
456894		3.96	0.035	2.55	2.76	25.9	100	1.60	0.23	1.59	18.85	52.6	18.6	54	1.79	460
456895		4.41	0.027	2.19	4.48	38.5	70	2.27	0.21	1.38	14.75	54.9	16.2	65	2.72	348
456896		0.24	<0.001	<0.01	0.07	0.5	40	0.08	<0.01	33.8	0.04	2.08	0.4	2	0.08	1.4
456897		4.44	0.006	0.88	9.25	21.9	330	3.48	0.11	0.79	3.70	65.4	15.1	98	4.24	217
456898		5.11	0.016	1.56	6.96	13.0	220	2.65	0.23	0.86	13.55	68.1	17.3	92	3.35	229
456899		4.56	0.021	1.47	4.19	20.9	150	1.82	0.19	2.04	9.81	52.9	22.1	62	1.82	226
456900		4.02	0.044	1.81	4.23	184.5	50	1.56	0.52	1.36	9.55	47.7	24.3	64	2.42	84.9



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**CERTIFICAT D'ANALYSE VO18174629**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
456881		12.60	11.45	0.11	1.8	0.324	0.086	2.20	23.8	8.4	2.18	982	52.9	0.09	9.1	213
456882		16.30	8.07	0.14	1.3	0.531	0.179	1.47	31.4	6.7	0.53	187	142.5	0.05	3.7	398
456883		15.45	10.10	0.13	1.4	0.248	0.096	1.97	34.5	8.9	1.15	491	61.6	0.08	5.2	280
456884		17.30	8.06	0.15	1.3	0.227	0.106	1.47	18.7	7.9	1.50	724	68.8	0.06	4.3	293
456885		19.10	8.23	0.16	1.5	0.673	0.063	1.53	26.2	6.7	0.44	322	92.6	0.05	4.4	260
456886		15.30	9.82	0.19	1.6	0.561	0.080	1.79	31.6	12.3	0.71	490	124.5	0.06	4.5	315
456887		15.90	6.64	0.19	1.9	0.292	0.066	0.95	36.2	10.0	1.24	2410	147.0	0.03	5.5	334
456888		17.00	6.13	0.18	1.3	0.180	0.042	0.82	37.1	11.0	1.64	3190	150.0	0.03	2.9	315
456889		7.51	18.70	0.09	3.8	0.031	0.069	0.91	23.2	13.2	3.01	975	2.46	1.76	19.7	143.5
456890		15.10	8.24	0.17	1.7	0.246	0.049	1.37	39.3	11.5	1.44	2790	140.5	0.05	3.7	303
456891		14.70	11.35	0.13	1.9	0.451	0.049	2.04	27.6	17.9	0.86	975	86.6	0.09	4.6	235
456892		13.55	7.50	0.16	1.7	0.516	0.085	1.24	29.4	8.9	0.75	1100	140.5	0.07	4.2	275
456893		13.85	7.79	0.15	1.8	0.463	0.090	1.32	30.7	9.9	0.79	1120	150.5	0.05	3.7	279
456894		14.85	7.63	0.16	1.9	0.271	0.068	1.21	32.7	10.2	1.11	1840	111.0	0.05	3.3	283
456895		15.10	11.45	0.16	2.5	0.290	0.071	2.13	34.8	15.6	0.95	1210	122.5	0.08	4.8	349
456896		0.21	0.23	0.07	<0.1	<0.005	0.016	0.01	1.8	2.0	3.21	191	0.27	0.03	0.2	0.7
456897		10.30	22.7	0.14	4.5	0.082	0.071	4.22	39.8	24.3	0.93	598	25.2	0.19	9.4	211
456898		10.85	17.65	0.14	4.3	0.225	0.098	3.17	41.0	17.2	0.81	667	68.2	0.16	9.0	182.0
456899		12.25	10.75	0.12	2.2	0.157	0.058	1.72	30.2	13.2	1.46	1750	56.1	0.09	4.7	175.0
456900		15.85	10.95	0.17	1.8	0.627	0.083	1.94	29.8	11.1	0.79	463	107.0	0.08	4.8	240



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18174629**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456881		360	69.2	55.0	0.041	>10.0	4.08	10.7	9	1.0	64.8	0.43	0.42	3.29	0.167	3.30
456882		940	88.5	42.1	0.089	>10.0	5.73	7.1	16	0.8	20.8	0.27	0.54	3.69	0.092	2.95
456883		340	39.1	50.7	0.058	>10.0	3.00	7.8	13	0.9	36.2	0.38	0.33	3.98	0.097	2.88
456884		350	40.0	40.1	0.056	>10.0	2.75	7.3	17	0.9	46.4	0.22	0.29	2.85	0.071	2.67
456885		650	133.0	43.9	0.058	>10.0	10.35	6.6	13	0.9	18.2	0.38	0.53	4.16	0.067	3.68
456886		1040	113.0	53.9	0.092	>10.0	10.00	7.8	18	1.0	29.6	0.29	0.57	3.92	0.101	3.93
456887		2770	40.2	37.0	0.100	>10.0	3.62	5.2	29	1.0	52.0	0.34	0.37	3.37	0.063	2.58
456888		2560	46.2	32.1	0.077	>10.0	4.97	5.2	21	0.7	58.4	0.20	0.41	3.10	0.060	2.58
456889		1160	14.7	40.9	<0.002	0.03	0.96	19.3	<1	1.7	360	1.17	<0.05	5.02	0.944	0.21
456890		2440	49.5	48.4	0.081	9.99	4.71	7.2	22	1.0	60.5	0.22	0.39	3.54	0.086	3.46
456891		980	68.9	64.8	0.069	>10.0	6.49	8.3	16	1.2	44.3	0.28	0.75	4.04	0.109	5.01
456892		1500	70.1	42.9	0.100	>10.0	5.74	5.8	19	0.9	45.9	0.29	0.61	3.61	0.091	3.34
456893		1580	73.4	46.7	0.101	>10.0	6.84	5.9	19	1.1	41.4	0.25	0.54	4.01	0.084	3.68
456894		2070	42.1	43.4	0.089	9.18	3.93	5.4	25	1.0	44.0	0.21	0.38	3.94	0.066	3.12
456895		1520	40.6	69.3	0.069	9.54	3.68	9.9	22	1.2	43.9	0.31	0.31	3.97	0.111	4.79
456896		60	0.8	0.3	<0.002	0.02	0.05	0.2	1	<0.2	85.1	<0.05	<0.05	0.08	0.007	0.02
456897		420	14.7	116.0	0.024	6.04	1.59	19.5	9	2.1	42.5	0.55	0.18	5.37	0.307	7.80
456898		660	25.4	91.3	0.065	6.30	2.80	14.6	10	2.1	40.2	0.50	0.34	5.85	0.192	6.18
456899		1600	25.4	55.0	0.045	6.74	2.62	8.6	12	1.3	51.9	0.29	0.30	3.92	0.106	3.38
456900		610	115.5	58.1	0.072	>10.0	10.85	8.8	14	1.2	34.7	0.30	0.92	4.28	0.113	4.39



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**CERTIFICAT D'ANALYSE VO18174629**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
456881		22.4	560	2.3	13.0	911	75.7
456882		54.6	1540	4.0	25.8	2210	56.1
456883		26.1	579	2.2	12.3	2530	62.0
456884		24.9	554	2.4	11.8	2500	54.4
456885		36.5	887	2.1	18.7	1130	56.8
456886		53.1	1120	3.0	22.4	2500	60.5
456887		65.2	1280	2.1	41.0	3130	71.7
456888		62.3	1200	2.2	35.0	1830	51.2
456889		1.2	154	2.2	19.7	137	144.5
456890		60.9	1260	2.5	30.4	2040	63.8
456891		39.6	888	1.9	22.2	1980	70.1
456892		65.6	1280	2.7	34.2	3530	64.4
456893		69.3	1360	2.7	35.1	3340	64.1
456894		52.4	977	1.6	30.1	2820	69.7
456895		56.0	1050	2.4	26.0	2360	90.7
456896		0.2	3	0.1	2.5	9	1.7
456897		15.8	333	1.8	11.9	622	158.0
456898		31.7	741	2.0	17.1	2110	159.0
456899		24.2	563	1.3	16.7	1550	82.5
456900		40.7	970	2.8	20.1	1640	66.6





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Page: **Annexe 1**  
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Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18174629**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
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## CERTIFICAT VO18174632

Projet: Kan

Bon de commande #: KANDH18-046

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 17-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18174632**

Description échantillon	Méthode	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	élément	Poids reçu	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	unités	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LDI															
456901		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456902		5.44	0.020	1.80	6.89	58.2	150	1.80	1.11	0.94	3.57	63.2	24.6	81	3.06	169.5
456903		2.81	<0.001	0.02	8.19	1.0	150	0.30	0.01	6.89	0.09	9.92	50.2	188	0.63	29.0
456904		2.70	<0.001	0.01	7.53	0.5	60	0.49	0.01	6.52	0.11	10.90	51.9	162	0.37	57.5
456905		2.02	<0.001	0.02	7.54	1.2	90	0.64	0.01	6.79	0.14	13.40	52.9	157	0.86	85.8
456906		2.09	<0.001	0.04	7.88	3.0	570	1.34	0.01	1.96	0.06	39.8	14.3	65	5.55	47.9
456907		2.95	<0.001	0.05	8.44	1.2	1210	2.15	0.01	0.74	0.07	75.3	12.1	58	8.32	75.6
456908		3.79	<0.001	0.05	8.76	0.5	1300	1.88	0.02	0.47	0.05	71.1	8.9	61	4.84	54.6
456909		3.83	<0.001	0.11	8.94	0.2	1210	1.92	0.08	0.62	0.06	80.6	16.3	62	4.48	108.5
456910		0.07	2.56	0.47	7.07	11.4	340	1.24	0.17	4.82	0.08	44.2	52.1	304	0.70	82.1
456911		4.68	0.002	0.08	8.74	0.4	840	2.07	0.19	0.64	0.06	75.7	15.1	62	5.56	82.5
456912		3.87	<0.001	0.07	8.86	<0.2	820	2.15	0.17	0.73	0.04	78.4	16.3	63	3.80	81.1
456913		4.79	<0.001	0.27	8.69	2.1	960	1.99	0.47	1.02	0.05	73.3	17.2	62	4.00	91.7
456914		4.65	<0.001	0.03	8.76	0.5	920	2.02	0.03	0.77	0.03	76.0	13.4	60	4.93	52.5
456915		4.56	<0.001	0.07	8.59	0.5	960	2.00	0.06	0.48	0.22	75.7	14.7	60	6.41	77.8
456916		4.36	<0.001	0.02	8.75	1.3	1170	1.88	0.02	0.65	0.03	79.9	10.1	60	5.78	21.3
456917		0.23	<0.001	<0.01	0.08	<0.2	20	0.07	<0.01	35.4	<0.02	1.17	0.4	2	<0.05	1.5
456918		4.66	<0.001	0.08	8.57	2.4	1290	2.07	0.04	0.99	0.08	75.8	7.7	57	3.04	44.3
456919		4.43	<0.001	0.09	8.79	0.3	1690	1.96	0.01	1.01	0.10	82.0	11.3	58	2.51	99.6
456920		3.32	<0.001	0.12	8.93	18.8	510	2.01	0.04	1.31	0.10	65.8	45.3	59	3.36	191.5
456920		2.15	<0.001	0.02	8.53	25.4	130	1.38	0.01	1.70	0.03	23.2	44.2	64	1.54	124.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18174632**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
456901		13.80	18.20	0.13	4.7	0.129	0.075	3.01	36.3	11.6	0.73	257	44.2	0.14	10.9	160.0
456902		9.27	16.50	0.05	1.1	<0.005	0.053	0.38	3.7	17.6	5.23	1580	0.24	1.74	2.9	187.0
456903		9.56	16.45	0.06	1.3	<0.005	0.059	0.17	4.0	16.4	4.85	1540	0.15	1.76	3.4	160.0
456904		9.34	18.25	0.06	1.8	<0.005	0.496	0.29	5.2	18.2	4.15	1600	0.30	2.11	4.2	139.5
456905		2.92	19.50	0.08	4.6	<0.005	0.007	2.38	19.9	29.4	1.29	469	4.13	3.86	6.5	58.1
456906		3.44	21.1	0.11	5.3	<0.005	0.019	4.04	39.1	43.9	1.44	270	4.02	2.31	8.7	40.1
456907		2.54	22.1	0.12	5.9	<0.005	0.010	3.56	36.6	36.3	0.90	149	3.04	3.08	9.8	37.1
456908		3.39	23.0	0.13	5.3	<0.005	0.029	4.51	42.4	41.1	1.04	250	2.05	1.55	9.9	38.7
456909		7.65	18.40	0.09	3.6	0.060	0.069	1.01	22.8	10.1	5.72	1090	3.16	2.04	29.1	364
456910		4.30	22.1	0.13	5.0	<0.005	0.042	4.99	39.2	41.7	1.21	347	0.96	0.52	9.6	35.2
456911		4.19	22.0	0.14	5.4	<0.005	0.144	4.38	41.4	37.4	1.21	336	1.68	1.01	9.4	34.7
456912		3.34	22.3	0.14	5.1	<0.005	0.026	4.46	38.5	36.6	1.17	320	2.09	1.14	9.2	32.0
456913		3.60	22.0	0.14	5.5	<0.005	0.035	4.32	39.0	40.2	1.27	234	0.41	1.41	9.4	31.5
456914		4.06	21.9	0.15	5.6	<0.005	0.029	5.21	38.7	44.8	1.17	210	0.55	0.32	9.2	33.0
456915		3.01	22.6	0.16	5.1	<0.005	0.048	4.58	41.3	44.7	1.19	182	0.44	1.48	9.3	31.4
456916		0.11	0.25	0.11	0.1	<0.005	0.148	0.02	1.3	1.0	1.22	88	<0.05	0.03	0.2	0.5
456917		1.73	21.6	0.16	5.5	<0.005	0.007	3.34	38.5	37.3	1.02	231	0.64	3.13	4.9	28.9
456918		1.58	20.9	0.15	5.8	<0.005	0.026	3.92	42.1	39.0	1.02	207	1.93	3.50	4.4	31.2
456919		2.38	20.1	0.12	5.5	<0.005	0.021	2.42	32.9	31.0	1.16	254	5.47	4.66	3.7	51.4
456920		3.58	21.1	0.08	5.1	<0.005	0.020	0.73	10.5	15.7	1.09	444	1.45	5.60	6.4	105.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18174632**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456901		520	615	75.1	0.032	>10.0	2.89	13.7	7	1.9	34.3	0.80	0.79	5.58	0.167	4.26
456902		400	4.8	14.2	0.002	0.08	0.25	37.4	<1	0.4	149.0	0.18	<0.05	0.29	0.647	0.12
456903		450	3.7	5.8	0.004	0.14	0.30	40.5	1	0.3	128.0	0.23	0.05	0.30	0.716	0.05
456904		470	4.7	11.0	0.006	0.21	0.29	40.6	1	0.4	117.5	0.29	<0.05	1.63	0.735	0.09
456905		370	7.7	75.3	0.012	0.04	0.14	10.6	<1	0.2	76.5	0.48	<0.05	11.90	0.303	0.43
456906		330	8.5	135.0	0.004	0.02	0.24	10.3	<1	0.4	50.1	0.67	<0.05	14.80	0.329	0.67
456907		340	15.0	113.5	0.007	0.06	0.23	10.8	<1	0.5	64.7	0.71	<0.05	14.60	0.350	0.49
456908		330	16.9	148.5	0.004	0.53	0.34	11.4	1	0.7	74.3	0.73	0.07	15.40	0.345	0.60
456909		1880	5.4	32.8	<0.002	0.04	0.31	24.2	<1	1.3	498	1.70	0.09	2.87	1.085	0.05
456910		330	9.2	164.0	0.005	0.34	0.24	10.8	<1	1.4	64.5	0.70	0.12	14.80	0.340	0.77
456911		330	9.0	141.0	0.005	0.57	0.21	11.0	1	1.4	80.0	0.72	0.08	15.35	0.340	0.64
456912		300	16.1	143.5	0.009	0.43	0.24	10.9	1	1.0	104.0	0.67	0.15	14.80	0.324	0.61
456913		310	5.9	148.5	0.002	0.21	0.20	10.9	1	0.9	86.4	0.70	<0.05	15.20	0.339	0.65
456914		320	7.4	172.0	0.003	0.23	0.24	10.7	1	1.3	49.7	0.70	<0.05	15.15	0.327	0.86
456915		320	5.4	158.0	0.002	0.06	0.27	11.3	<1	1.0	77.3	0.63	<0.05	15.35	0.331	0.73
456916		60	0.5	0.8	<0.002	<0.01	<0.05	0.2	<1	<0.2	81.5	<0.05	<0.05	0.12	0.006	<0.02
456917		310	23.8	102.5	0.003	0.05	0.26	10.9	<1	0.3	119.5	0.28	0.05	14.45	0.248	0.46
456918		330	21.7	95.2	0.005	0.18	0.23	11.4	<1	0.2	120.0	0.27	<0.05	14.35	0.225	0.44
456919		310	20.7	77.6	0.008	0.51	0.15	11.0	2	0.2	72.4	0.23	0.09	13.70	0.197	0.37
456920		610	3.8	24.3	0.012	0.52	0.09	11.0	1	<0.2	39.4	0.53	<0.05	13.80	0.305	0.16



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18174632**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456901		21.4	371	1.7	16.1	503	172.0
456902		0.1	330	0.1	19.7	91	36.2
456903		0.3	345	0.1	22.1	97	42.9
456904		0.6	350	0.2	25.3	102	61.2
456905		2.7	137	0.2	7.5	33	158.0
456906		4.2	129	0.5	9.2	35	182.5
456907		4.4	127	1.1	9.4	21	200
456908		3.8	111	0.9	9.3	33	184.5
456909		0.7	153	3.5	24.1	110	141.5
456910		3.2	96	1.1	9.4	71	174.5
456911		3.5	103	1.0	9.5	65	184.5
456912		3.6	108	1.0	9.6	47	172.5
456913		3.2	76	0.9	9.4	77	182.5
456914		3.2	80	1.3	9.6	178	184.5
456915		3.3	75	1.0	9.4	78	183.0
456916		0.1	1	<0.1	1.9	3	1.7
456917		3.3	84	0.6	9.4	44	182.5
456918		4.0	109	0.4	10.2	31	205
456919		3.7	114	0.2	7.9	49	189.5
456920		2.2	130	0.3	7.3	46	172.0



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
**12-AOUT-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18174632**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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## CERTIFICAT VO18174634

Projet: Kan

Bon de commande #: KANDH18-047

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 17-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager





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Description échantillon	Méthode	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	élément	Poids reçu	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	unités	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LDI															
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456921		3.13	0.008	0.05	7.09	17.7	70	0.53	0.01	5.83	0.11	10.45	46.5	157	0.86	92.3
456922		4.51	0.002	0.01	7.50	21.3	40	0.31	0.01	6.64	0.07	7.05	43.7	162	0.48	16.4
456923		5.06	0.002	<0.01	7.98	26.3	40	0.39	0.01	6.50	0.04	6.02	45.4	180	0.35	1.7
456924		4.61	0.002	<0.01	8.30	29.8	120	0.36	0.01	4.43	0.04	6.04	57.9	230	0.33	1.2
456925		4.87	0.005	0.05	7.00	34.8	70	0.29	0.01	5.96	0.10	5.97	68.5	223	0.59	81.9
456926		5.03	0.008	0.05	7.48	19.6	30	0.26	0.01	6.05	0.09	9.54	65.7	215	0.31	83.1
456927		4.98	0.003	0.07	7.04	36.9	60	0.20	0.01	6.13	0.14	5.12	73.3	205	0.38	109.5
456928		4.61	0.005	0.06	7.08	19.9	80	0.14	0.05	6.47	0.10	4.66	66.5	156	0.25	77.8
456929		0.07	7.70	1.35	6.51	32.7	330	0.88	0.54	3.06	0.08	32.4	40.8	326	0.71	115.5
456930		5.34	0.004	0.08	7.60	18.3	20	0.17	0.01	6.76	0.11	4.78	66.4	220	0.22	128.0
456931		4.69	0.001	0.04	7.27	16.2	30	0.18	0.01	6.44	0.06	4.38	64.6	215	0.16	70.3
456932		4.77	0.004	0.04	7.11	31.4	10	0.16	0.01	5.89	0.08	4.37	85.1	185	0.15	63.1
456933		4.78	0.001	0.05	6.52	13.8	10	0.20	0.01	6.12	0.08	3.92	77.8	240	0.13	88.8
456934		4.71	<0.001	0.04	6.36	14.8	10	0.19	0.01	5.55	0.10	3.91	85.0	223	0.15	83.1
456935		4.45	<0.001	0.04	6.46	9.4	<10	0.20	0.01	5.46	0.08	4.34	84.2	208	0.17	67.9
456936		0.19	<0.001	<0.01	0.14	<0.2	10	<0.05	<0.01	32.8	0.02	0.88	1.4	5	<0.05	2.6
456937		5.32	<0.001	0.06	7.01	10.0	10	0.18	0.01	6.08	0.07	4.09	77.9	282	0.15	109.5
456938		4.57	0.002	0.15	6.72	11.6	10	0.10	<0.01	6.11	0.18	4.50	78.9	276	0.14	273
456939		4.73	0.001	0.05	7.04	13.5	20	0.18	0.01	6.05	0.11	3.93	68.4	276	0.13	115.0
456940		4.72	<0.001	0.01	7.51	27.0	90	0.19	0.01	6.10	0.04	5.16	73.5	320	0.21	38.1



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date:  
**12-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18174634**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456921		8.50	16.20	0.05	1.1	<0.005	0.050	0.26	3.8	34.9	4.28	1400	0.17	1.68	3.4	140.0
456922		8.24	15.00	0.05	0.7	<0.005	0.033	0.15	2.6	34.2	4.98	1380	0.09	1.74	2.3	170.5
456923		7.99	15.55	0.06	0.5	<0.005	0.047	0.12	2.1	36.4	5.31	1360	0.09	2.27	2.0	193.0
456924		9.59	17.50	0.05	0.6	<0.005	0.041	0.23	2.2	43.3	6.34	1410	0.07	1.82	2.4	259
456925		9.32	14.35	<0.05	0.5	0.006	0.052	0.30	2.2	29.7	7.08	1480	0.16	1.33	1.8	336
456926		9.40	15.70	0.06	0.9	0.010	0.071	0.13	3.4	29.0	7.78	1460	0.11	1.48	3.0	386
456927		8.77	14.00	<0.05	0.4	0.012	0.075	0.19	1.9	32.2	7.39	1440	0.15	1.13	1.7	386
456928		8.62	12.65	0.05	0.4	0.013	0.041	0.18	1.6	33.1	7.99	1460	0.20	0.85	1.6	441
456929		5.87	15.30	0.06	2.7	0.165	0.042	1.12	15.7	13.5	4.27	793	6.13	1.26	16.4	264
456930		8.18	14.10	0.05	0.4	0.019	7.18	0.10	1.7	22.4	7.19	1240	0.19	1.37	1.6	384
456931		7.99	12.80	0.05	0.4	0.005	0.029	0.08	1.5	25.4	7.90	1260	0.09	1.38	1.6	432
456932		8.79	12.40	0.05	0.4	0.006	0.042	0.05	1.6	28.1	9.33	1320	0.08	1.03	1.5	558
456933		8.23	11.20	<0.05	0.3	0.016	0.028	0.03	1.4	37.6	8.85	1240	0.07	0.92	1.4	552
456934		8.59	10.65	<0.05	0.3	0.015	0.034	0.04	1.4	39.5	9.71	1280	0.09	0.65	1.4	598
456935		8.73	11.00	0.05	0.4	0.016	0.104	0.03	1.6	42.4	10.00	1300	0.06	0.68	1.5	625
456936		0.24	0.29	0.07	<0.1	<0.005	0.009	0.01	1.0	1.5	1.46	102	<0.05	0.03	0.1	7.6
456937		8.21	11.70	0.05	0.4	0.012	0.048	0.03	1.4	41.2	9.08	1260	0.10	0.98	1.4	572
456938		8.29	10.90	0.05	0.4	0.036	0.039	0.03	1.7	50.1	8.93	1400	0.14	0.48	1.5	628
456939		7.79	12.00	<0.05	0.3	0.010	0.047	0.07	1.4	39.0	8.12	1220	0.08	1.10	1.5	480
456940		7.83	13.55	0.05	0.4	0.005	0.040	0.23	1.8	36.5	8.43	1160	0.13	1.08	1.9	556



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**12-AOUT-2018**  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18174634**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456921		420	2.8	10.2	0.004	0.12	0.17	37.8	<1	0.3	58.2	0.21	<0.05	0.46	0.697	0.08
456922		300	2.3	5.7	<0.002	0.03	0.21	31.0	<1	0.3	77.3	0.15	<0.05	0.24	0.546	0.05
456923		150	1.8	2.5	<0.002	<0.01	0.16	30.7	<1	0.3	64.6	0.14	<0.05	0.16	0.479	0.04
456924		220	1.6	3.7	<0.002	<0.01	0.23	25.1	<1	0.3	48.8	0.17	<0.05	0.15	0.538	0.05
456925		260	2.8	10.3	0.002	0.07	0.52	19.3	<1	0.4	85.2	0.13	<0.05	0.15	0.412	0.09
456926		420	3.1	4.1	<0.002	0.10	0.67	21.0	<1	0.7	102.5	0.21	<0.05	0.24	0.480	0.04
456927		220	2.7	6.0	<0.002	0.04	0.57	17.8	<1	0.5	93.2	0.11	<0.05	0.13	0.393	0.05
456928		200	4.6	4.6	0.002	0.03	0.49	17.2	<1	0.4	79.1	0.10	<0.05	0.11	0.332	<0.02
456929		1140	10.2	39.5	<0.002	0.09	0.77	20.3	<1	1.0	297	0.98	0.26	2.37	0.713	0.18
456930		220	3.5	2.7	<0.002	0.11	1.00	18.4	<1	0.4	138.5	0.11	<0.05	0.12	0.366	0.02
456931		200	2.5	1.7	<0.002	0.05	0.88	16.7	<1	0.3	102.0	0.11	<0.05	0.11	0.341	<0.02
456932		190	2.1	1.0	<0.002	0.05	0.94	14.4	<1	0.4	86.1	0.10	<0.05	0.11	0.332	<0.02
456933		190	2.3	0.7	<0.002	0.06	0.85	13.9	1	0.4	88.9	0.08	<0.05	0.11	0.292	0.02
456934		170	1.5	0.7	<0.002	0.06	0.78	14.8	<1	0.4	76.1	0.08	<0.05	0.10	0.294	<0.02
456935		190	1.3	0.7	<0.002	0.04	0.80	14.2	<1	0.4	65.2	0.10	<0.05	0.13	0.278	<0.02
456936		50	<0.5	0.4	<0.002	0.01	0.08	0.4	<1	<0.2	74.6	<0.05	<0.05	0.06	0.008	<0.02
456937		180	1.6	0.7	<0.002	0.03	0.78	14.2	<1	0.4	83.9	0.09	<0.05	0.10	0.289	<0.02
456938		200	0.9	0.6	<0.002	0.04	0.31	15.4	<1	0.4	37.2	0.10	<0.05	0.13	0.302	<0.02
456939		200	1.4	1.4	<0.002	0.02	0.60	12.6	<1	0.4	78.6	0.10	<0.05	0.11	0.296	0.02
456940		260	1.5	5.1	0.002	0.01	0.81	11.8	<1	0.5	91.0	0.13	<0.05	0.14	0.331	0.04



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
**12-AOUT-2018**  
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**CERTIFICAT D'ANALYSE VO18174634**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456921		0.2	337	1.8	21.9	100	36.5
456922		0.1	280	2.3	16.1	90	22.4
456923		0.1	254	2.7	14.2	88	17.5
456924		0.1	277	1.3	12.9	106	17.1
456925		0.1	231	0.9	12.7	109	16.1
456926		0.1	226	0.3	19.0	102	27.7
456927		0.1	206	0.2	11.1	102	12.9
456928		<0.1	175	0.3	10.3	99	10.0
456929		0.6	154	9.8	14.6	90	97.6
456930		0.1	198	0.2	10.4	80	9.4
456931		0.1	180	0.2	9.5	78	9.9
456932		<0.1	163	0.2	9.1	86	9.9
456933		<0.1	151	0.1	8.2	79	8.1
456934		<0.1	147	0.1	8.1	84	9.2
456935		<0.1	140	0.1	8.6	84	13.2
456936		0.1	2	<0.1	1.9	4	1.6
456937		<0.1	147	0.1	8.3	83	11.1
456938		0.1	149	0.1	9.4	94	11.5
456939		<0.1	154	0.1	8.0	81	10.5
456940		0.1	162	0.2	10.1	80	12.6



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
**12-AOUT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18174634**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.  
 CRU-31 CRU-QC LOG-21 LOG-23  
 PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
 Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
12-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18174635

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Bon de commande #: KANDH18-048

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 17-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**12-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18174635**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456941		4.56	<0.001	0.03	7.06	28.1	50	0.17	0.01	5.80	0.06	5.93	74.1	287	0.14	65.2
456942		4.91	<0.001	0.05	8.18	16.6	90	0.25	0.01	7.24	0.09	5.38	51.5	491	0.17	120.5
456943		4.90	<0.001	0.04	8.50	5.6	10	0.26	0.01	8.76	0.07	5.48	40.3	530	0.08	96.3
456944		4.99	<0.001	0.04	8.64	2.8	10	0.27	0.01	8.22	0.11	8.48	33.1	393	0.10	113.5
456945		4.92	<0.001	0.05	7.81	0.8	10	0.33	0.01	7.86	0.09	10.85	35.6	332	0.22	123.0
456946		4.86	<0.001	0.03	7.75	0.5	10	0.31	0.01	8.09	0.09	10.30	35.9	248	0.07	137.5
456947		5.04	<0.001	0.04	7.58	2.4	<10	0.35	0.01	8.05	0.09	10.15	37.2	147	0.06	146.0
456948		4.81	<0.001	0.05	7.28	2.8	10	0.25	<0.01	8.03	0.07	7.05	37.2	72	0.06	152.5
456949		0.07	0.666	0.19	7.30	19.1	330	1.20	0.13	4.33	0.20	51.5	39.9	184	1.95	53.6
456950		4.88	<0.001	0.04	7.19	1.6	10	0.31	0.01	6.95	0.07	8.52	40.8	30	0.06	81.4
456951		4.93	0.002	0.20	6.51	0.6	20	0.26	0.01	7.25	0.26	8.61	59.9	7	1.15	406
456952		4.94	0.008	0.03	6.49	1.0	60	0.43	0.01	6.77	0.12	11.10	57.5	10	4.67	78.6
456953		4.61	<0.001	0.04	6.07	0.6	150	0.52	0.01	5.35	0.11	16.75	44.9	15	12.10	66.4
456954		4.62	<0.001	0.01	5.73	0.2	140	0.74	0.01	4.77	0.11	36.5	22.7	3	8.37	17.8
456955		4.62	<0.001	<0.01	7.67	<0.2	510	1.76	0.01	1.24	0.04	70.3	9.6	40	2.14	13.8
456956		0.24	<0.001	<0.01	0.14	<0.2	30	0.10	0.01	32.6	<0.02	0.84	0.6	2	0.05	1.1
456957		3.74	<0.001	0.03	8.52	<0.2	990	1.83	0.02	0.44	0.05	65.9	7.9	60	3.90	33.4
456958		2.59	<0.001	0.01	8.60	<0.2	1060	1.79	0.02	0.16	<0.02	66.0	8.8	60	5.11	22.1
456959		4.42	<0.001	0.05	7.39	0.6	890	1.34	0.03	0.41	0.06	58.0	9.3	54	4.55	36.1
456960		4.43	<0.001	0.06	8.33	<0.2	680	2.04	0.08	0.41	<0.02	60.3	11.0	77	6.41	41.7



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date:  
**12-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18174635**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
456941		7.89	12.40	<0.05	0.6	0.010	0.041	0.16	2.1	36.0	8.61	1200	0.14	1.02	2.2	507
456942		6.66	14.15	<0.05	0.6	0.018	0.041	0.28	1.9	24.2	6.10	1080	0.16	1.37	2.1	300
456943		6.68	14.85	<0.05	0.6	0.012	0.058	0.03	1.9	15.8	4.96	1200	0.13	1.37	2.0	149.5
456944		6.19	15.30	0.05	0.8	0.008	0.057	0.04	3.2	13.6	4.51	1170	0.18	1.70	2.5	94.4
456945		7.14	14.95	<0.05	1.2	0.019	0.069	0.08	4.2	14.6	4.77	1360	0.22	1.28	3.0	73.1
456946		7.22	15.00	<0.05	1.1	0.018	0.060	0.04	4.0	13.1	4.83	1380	0.18	1.49	2.9	72.7
456947		7.50	15.25	0.06	1.0	0.013	0.071	0.03	3.9	12.0	4.49	1360	0.21	1.21	2.9	64.3
456948		7.31	14.10	<0.05	0.7	0.011	0.081	0.02	2.6	12.5	4.53	1410	0.15	1.44	2.2	64.7
456949		7.25	17.60	0.08	3.6	0.018	0.076	0.88	23.1	13.7	2.91	941	2.27	1.69	18.7	137.0
456950		8.41	15.50	<0.05	0.7	0.017	0.073	0.06	3.1	13.9	4.17	1460	0.18	1.50	2.7	49.5
456951		12.95	18.40	0.06	1.0	0.022	0.097	0.24	3.2	14.7	3.72	1610	0.17	0.87	2.8	47.6
456952		13.20	18.05	<0.05	1.1	0.007	0.098	0.78	4.2	19.3	3.34	1720	0.23	1.59	3.4	14.7
456953		12.50	18.35	0.06	1.4	0.008	0.124	1.68	6.5	34.5	2.67	1900	0.37	1.26	5.4	19.5
456954		11.50	20.0	0.10	3.7	<0.005	0.163	1.14	13.7	26.2	1.37	2190	0.82	1.54	11.0	0.6
456955		6.85	23.2	0.11	6.3	<0.005	0.115	2.14	34.4	27.2	1.37	1040	1.25	1.71	12.5	15.8
456956		0.15	0.45	<0.05	0.1	<0.005	<0.005	0.05	1.0	1.3	1.80	90	<0.05	0.05	0.4	0.9
456957		3.37	19.10	0.08	6.2	<0.005	0.019	4.33	35.2	32.4	1.44	402	2.04	1.35	8.1	28.6
456958		3.32	20.2	0.09	7.0	<0.005	0.016	4.63	34.1	36.1	1.46	247	2.11	1.20	8.7	32.0
456959		2.75	15.45	0.09	4.0	0.005	0.014	3.86	31.1	28.6	1.27	377	3.13	1.26	7.1	41.9
456960		6.77	19.40	0.09	3.1	0.007	0.036	4.52	31.8	42.8	1.81	816	1.42	0.22	7.3	34.2





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**12-AOUT-2018**  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18174635**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456941		280	1.7	3.7	<0.002	0.01	0.79	12.4	<1	0.5	79.4	0.15	<0.05	0.15	0.355	0.02
456942		270	2.9	4.3	<0.002	0.03	1.12	16.8	<1	0.6	124.5	0.14	<0.05	0.16	0.381	0.04
456943		240	3.0	0.5	<0.002	0.06	1.26	32.1	1	0.5	132.5	0.12	<0.05	0.16	0.437	<0.02
456944		230	2.9	0.8	<0.002	0.05	1.06	36.2	<1	0.6	123.0	0.15	<0.05	0.38	0.387	<0.02
456945		300	2.6	2.7	<0.002	0.07	0.98	39.8	1	0.8	109.5	0.20	<0.05	0.52	0.475	0.03
456946		280	2.8	0.5	<0.002	0.06	1.00	41.8	<1	0.7	111.0	0.18	<0.05	0.45	0.451	<0.02
456947		270	3.1	0.3	<0.002	0.11	1.09	41.9	<1	0.6	122.0	0.19	<0.05	0.48	0.510	<0.02
456948		250	3.1	0.3	<0.002	0.06	1.20	41.3	<1	0.6	119.5	0.14	<0.05	0.24	0.481	<0.02
456949		1100	14.1	40.2	<0.002	0.02	0.96	18.1	<1	1.8	347	1.12	0.05	5.31	0.915	0.20
456950		340	3.9	1.0	0.003	0.07	1.31	42.5	<1	0.6	137.0	0.18	<0.05	0.28	0.618	<0.02
456951		330	4.8	7.1	<0.002	0.31	1.37	50.2	2	0.7	157.5	0.17	0.05	0.31	1.075	0.09
456952		420	3.9	30.0	0.003	0.16	1.04	51.5	1	0.9	122.0	0.22	<0.05	0.45	1.170	0.33
456953		750	4.0	77.8	0.003	0.19	0.33	46.0	1	1.0	98.0	0.34	0.05	0.68	1.365	0.72
456954		1750	3.3	55.0	<0.002	0.13	0.16	30.6	<1	1.9	156.5	0.70	<0.05	1.70	1.110	0.55
456955		690	3.9	61.1	<0.002	0.09	0.14	15.2	<1	1.6	65.5	0.85	<0.05	9.85	0.426	0.31
456956		60	0.8	1.4	<0.002	<0.01	0.06	0.3	1	<0.2	74.2	<0.05	<0.05	0.10	0.008	<0.02
456957		300	9.2	116.5	0.004	0.21	0.21	9.4	1	0.6	28.2	0.60	<0.05	13.60	0.323	0.68
456958		290	6.1	134.5	0.002	0.13	0.18	10.0	1	0.6	22.8	0.64	<0.05	13.55	0.323	0.96
456959		250	11.9	113.5	0.006	0.14	0.23	7.6	1	0.3	24.0	0.50	<0.05	11.60	0.279	0.84
456960		860	3.7	142.0	0.004	0.71	0.15	9.9	1	1.1	26.4	0.52	0.08	11.15	0.286	1.18



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18174635**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456941		0.1	163	0.1	11.4	85	16.2
456942		0.1	188	0.2	11.4	71	18.6
456943		<0.1	241	0.2	12.9	64	14.2
456944		0.1	209	0.2	16.9	62	27.2
456945		0.1	255	0.2	21.7	72	41.2
456946		0.1	252	0.2	20.3	75	35.7
456947		0.1	295	0.2	20.2	72	35.1
456948		0.1	275	0.1	16.1	73	27.3
456949		1.2	148	2.1	19.7	131	143.5
456950		0.1	337	0.2	18.8	82	22.9
456951		0.1	1080	0.2	19.3	108	21.7
456952		0.1	936	0.2	23.7	115	32.6
456953		0.2	454	0.4	27.4	139	47.4
456954		0.4	37	0.2	37.0	148	135.0
456955		2.0	54	0.5	19.6	104	218
456956		0.2	2	<0.1	1.9	<2	1.9
456957		3.6	112	0.8	7.6	68	219
456958		3.8	112	0.8	8.4	77	245
456959		3.1	103	0.6	6.8	63	142.0
456960		3.2	90	1.4	8.1	74	108.5



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
**12-AOUT-2018**  
 Compte: **MINVIR**

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<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 5-AOUT-2018  
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## CERTIFICAT VO18177053

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Bon de commande #: KANDH18-PRIORITY-012

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 5-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18177053**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457851		2.71	0.005	0.04	1.29	8.5	10	1.55	0.05	1.77	0.02	16.70	13.1	29	0.84	13.8
457852		2.62	0.001	0.03	0.45	14.4	20	1.15	0.03	2.13	0.04	8.97	6.7	12	2.77	7.1
457853		3.13	0.005	0.04	0.69	13.8	20	1.13	0.04	2.30	0.10	14.05	9.3	17	2.47	10.3
457854		2.24	0.002	0.04	0.67	0.8	30	1.68	0.04	0.71	0.14	13.95	9.4	19	2.83	12.8
457855		2.70	0.002	0.02	0.57	1.3	40	1.49	0.04	0.49	0.09	16.75	9.1	11	5.24	9.9
457856		2.65	0.002	0.02	0.90	1.3	70	1.69	0.07	0.46	0.09	17.75	9.2	21	9.88	3.1
457857		2.60	0.001	0.05	0.63	2.2	50	1.45	0.06	0.27	0.09	14.65	8.8	14	6.57	11.1
457858		2.57	0.002	0.03	0.82	1.5	60	1.52	0.07	0.30	0.12	16.30	8.1	18	8.72	6.4
457859		0.06	2.60	0.41	7.07	11.8	340	1.24	0.17	4.93	0.07	44.2	52.3	319	0.69	81.8
457860		2.61	0.002	0.11	0.36	0.9	20	0.68	0.08	0.26	0.10	9.98	5.3	15	2.45	39.0
457861		2.65	0.002	0.29	0.58	1.7	20	0.96	0.25	0.32	0.10	12.85	11.4	17	2.70	86.9
457862		3.96	0.002	0.16	0.41	1.4	20	0.65	0.17	0.29	0.08	13.35	7.6	16	2.11	70.0
457863		3.95	0.004	0.40	0.20	1.3	10	0.20	0.43	0.45	0.05	6.64	15.8	18	1.80	199.0
457864		2.52	0.005	0.44	0.29	1.9	10	0.26	0.57	0.22	0.05	9.68	17.6	28	2.50	160.5
457865		2.72	0.009	0.40	0.34	0.8	20	0.27	0.40	0.38	0.07	10.75	15.2	16	2.66	193.0
457866		0.22	<0.001	<0.01	0.23	0.2	50	0.05	0.01	33.7	<0.02	0.89	0.6	2	<0.05	1.4
457867		2.80	0.002	0.09	0.54	19.0	30	1.83	0.16	0.21	0.08	13.35	5.9	18	5.08	34.9
457868		2.66	0.003	0.09	0.55	3.3	30	1.39	0.17	0.30	0.08	15.30	4.9	19	5.24	30.8
457869		2.88	0.003	0.21	0.58	1.9	30	1.47	0.33	0.22	0.06	13.45	8.5	20	5.62	70.9
457870		2.73	0.003	0.10	0.58	1.7	40	1.18	0.18	0.18	0.07	14.10	4.4	19	5.52	27.2



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 5-AOUT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18177053**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
457851		23.3	6.43	0.16	0.8	0.005	0.027	0.05	9.6	2.4	4.16	20900	0.56	0.02	6.7	20.0
457852		19.80	2.43	0.13	0.3	<0.005	0.013	0.15	5.1	0.8	3.20	14900	0.45	0.06	3.0	7.1
457853		20.3	3.55	0.15	0.6	<0.005	0.014	0.20	8.0	2.9	4.25	18000	0.65	0.06	5.0	10.6
457854		20.3	3.36	0.17	0.5	0.012	0.019	0.32	7.8	5.4	3.80	15900	0.50	0.04	4.5	9.9
457855		24.2	2.90	0.16	0.5	0.037	0.015	0.31	9.1	1.4	4.57	15300	0.44	0.12	4.8	7.8
457856		21.8	4.09	0.16	0.7	0.032	0.040	0.50	9.4	1.2	3.86	13200	0.64	0.21	6.3	12.9
457857		22.2	2.86	0.15	0.5	0.038	0.053	0.35	8.1	1.1	3.64	11350	0.73	0.16	4.0	9.2
457858		24.6	3.92	0.15	0.6	0.039	0.076	0.45	8.8	1.2	3.78	16200	0.57	0.20	5.1	12.3
457859		7.70	19.25	0.17	3.5	0.057	0.068	1.02	21.4	9.0	5.84	1130	3.27	2.04	28.8	370
457860		19.25	2.19	0.15	0.3	0.019	0.100	0.13	5.7	0.8	2.37	17150	0.30	0.06	3.0	5.5
457861		23.9	3.54	0.15	0.4	0.023	0.123	0.15	7.1	1.1	2.69	17150	0.64	0.06	3.8	9.4
457862		21.0	2.92	0.14	0.3	0.015	0.117	0.12	7.5	1.0	3.07	15850	0.51	0.05	3.3	6.5
457863		20.6	1.63	0.16	0.2	0.025	0.059	0.13	3.7	0.8	1.67	3000	0.48	0.04	1.7	13.5
457864		21.7	2.54	0.15	0.3	0.028	0.056	0.21	5.2	1.4	1.88	2770	0.64	0.05	2.6	14.5
457865		21.5	2.31	0.17	0.3	0.033	0.069	0.16	6.3	0.7	1.94	3500	0.73	0.06	2.6	12.5
457866		0.16	0.52	0.08	0.1	<0.005	<0.005	0.04	1.1	0.9	1.28	101	<0.05	0.15	0.1	<0.2
457867		25.5	3.02	0.15	0.3	0.006	0.127	0.31	7.3	1.9	4.61	4990	0.61	0.11	3.8	7.1
457868		26.3	3.83	0.17	0.3	0.012	0.134	0.33	8.4	2.2	4.90	4240	0.32	0.11	4.4	5.9
457869		27.2	3.91	0.18	0.4	0.013	0.150	0.35	7.4	2.3	4.52	4690	0.43	0.12	4.7	8.3
457870		23.2	3.80	0.16	0.4	0.016	0.159	0.35	7.9	2.5	4.52	3620	0.37	0.12	4.0	7.4



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 5-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18177053**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457851		770	1.8	1.5	<0.002	0.22	0.21	4.0	1	0.3	20.0	0.37	0.05	1.37	0.156	<0.02
457852		390	1.6	4.2	<0.002	0.14	0.14	1.4	1	0.3	27.1	0.17	0.06	0.47	0.068	<0.02
457853		580	4.0	6.1	<0.002	0.24	0.10	2.1	1	0.6	33.0	0.29	0.07	0.78	0.119	0.05
457854		550	3.0	10.7	<0.002	0.32	0.11	2.2	1	0.7	11.6	0.28	0.05	0.74	0.105	0.16
457855		600	1.6	8.2	<0.002	0.35	0.34	1.6	1	0.8	8.5	0.29	<0.05	0.78	0.092	0.03
457856		510	2.5	12.9	<0.002	0.17	0.93	2.7	<1	1.5	8.5	0.42	<0.05	1.19	0.125	0.03
457857		490	1.7	8.8	<0.002	0.60	0.58	1.8	1	1.0	4.1	0.26	0.06	0.84	0.087	<0.02
457858		570	1.8	11.4	<0.002	0.31	0.84	2.5	<1	1.3	4.7	0.32	<0.05	0.99	0.105	<0.02
457859		1970	5.2	31.0	<0.002	0.04	0.37	21.2	<1	1.4	498	1.68	0.09	2.97	1.115	0.05
457860		400	3.0	3.4	<0.002	1.38	0.44	1.1	<1	0.5	3.7	0.16	0.06	0.46	0.053	<0.02
457861		480	5.2	3.7	<0.002	3.63	0.41	1.7	3	0.6	5.3	0.24	0.10	0.67	0.075	0.03
457862		550	3.6	3.0	<0.002	2.54	0.20	1.2	1	0.4	4.9	0.18	0.08	0.55	0.057	<0.02
457863		310	8.2	3.4	<0.002	6.20	0.36	0.6	7	0.3	11.2	0.10	0.17	0.26	0.032	0.02
457864		460	10.2	5.9	<0.002	6.25	0.30	0.9	8	0.5	5.6	0.16	0.23	0.42	0.046	0.04
457865		710	10.0	4.0	<0.002	5.71	0.39	0.9	6	0.5	9.2	0.14	0.14	0.44	0.039	0.02
457866		60	0.5	0.9	<0.002	0.01	0.06	0.1	1	<0.2	78.1	<0.05	<0.05	0.04	<0.005	<0.02
457867		480	2.6	8.5	<0.002	1.32	1.19	1.7	1	1.6	4.1	0.15	<0.05	0.70	0.058	0.06
457868		570	2.9	9.0	<0.002	1.32	1.93	1.5	1	1.9	4.8	0.17	<0.05	0.70	0.063	0.06
457869		530	5.2	9.9	<0.002	2.60	1.15	1.7	3	1.8	4.7	0.19	0.09	0.70	0.064	0.08
457870		490	2.2	10.1	<0.002	1.35	1.42	1.7	1	1.8	4.3	0.16	<0.05	0.64	0.063	0.07



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 5-AOUT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18177053**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457851		0.8	122	0.6	10.5	21	36.7
457852		0.3	47	0.5	7.2	13	15.0
457853		0.5	69	0.5	7.9	24	24.5
457854		0.6	55	0.3	7.9	41	22.8
457855		0.4	45	0.3	9.9	30	21.6
457856		0.9	61	0.5	9.7	42	30.1
457857		0.4	41	0.3	8.6	40	20.7
457858		0.6	58	0.4	8.9	40	25.8
457859		0.7	154	3.5	20.5	112	148.5
457860		0.2	27	0.2	5.6	28	14.0
457861		0.5	39	0.3	6.7	32	19.1
457862		0.3	34	0.2	5.4	22	15.8
457863		0.1	17	0.1	2.4	15	7.9
457864		0.2	24	0.1	2.8	16	11.9
457865		0.4	19	0.2	4.0	14	11.4
457866		0.1	1	<0.1	2.3	3	1.7
457867		0.6	30	0.2	7.2	41	15.1
457868		0.5	46	0.2	7.6	41	15.7
457869		0.5	37	0.2	9.2	34	16.4
457870		0.6	41	0.2	7.0	37	17.2





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **5-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18177053**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 6-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18177073

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-013

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 6-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18177073**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457871		2.60	0.005	0.12	0.70	5.8	40	1.39	0.30	0.24	0.04	17.50	5.4	21	5.97	53.6
457872		2.45	<0.001	0.06	0.76	1.2	40	1.05	0.13	0.25	0.04	15.30	6.7	25	5.67	21.8
457873		2.50	<0.001	0.06	0.40	0.7	30	1.36	0.07	3.26	0.05	13.75	5.2	16	3.91	11.7
457874		2.31	0.009	0.02	0.31	1.4	20	0.63	0.03	2.97	0.06	11.05	5.4	13	3.25	3.8
457875		2.51	<0.001	0.02	0.32	5.3	20	0.60	0.04	4.96	0.06	10.30	5.2	11	3.39	5.2
457876		2.46	<0.001	0.03	0.84	52.8	50	0.97	0.06	3.51	0.07	16.55	10.0	19	6.90	8.1
457877		2.37	<0.001	0.04	0.45	22.6	30	0.99	0.04	2.44	0.04	11.35	6.1	15	4.48	8.3
457878		2.47	<0.001	0.03	0.65	6.1	40	1.22	0.03	2.98	0.05	12.60	8.2	18	5.23	6.7
457879		0.06	7.64	1.30	5.90	35.2	300	1.18	0.53	2.85	0.08	29.4	42.4	311	0.62	113.5
457880		2.33	0.002	0.12	0.56	47.8	30	0.57	0.08	3.73	0.07	10.05	7.0	20	4.26	5.0
457881		1.94	0.005	0.05	0.96	2.5	20	0.77	0.05	3.03	0.07	17.05	9.2	22	1.87	11.0
457882		2.42	0.048	0.02	0.41	5.5	30	0.50	0.03	1.72	0.03	12.45	5.5	13	3.82	5.6
457883		2.51	0.135	0.03	0.58	9.7	10	0.60	0.05	3.29	0.08	14.55	12.2	19	0.40	17.2
457884		2.57	<0.001	0.02	0.62	31.6	10	0.89	0.03	2.54	0.03	16.10	10.5	16	0.29	9.7
457885		2.51	0.001	0.02	0.62	10.9	<10	0.96	0.03	1.44	0.02	13.75	9.6	21	0.18	6.2
457886		0.26	<0.001	<0.01	0.06	<0.2	20	0.07	0.01	32.9	<0.02	0.91	1.2	3	0.06	1.6
457887		2.31	<0.001	0.01	0.34	2.0	<10	0.94	0.02	1.48	<0.02	11.45	5.7	18	<0.05	4.0
457888		2.37	<0.001	0.04	0.36	1.1	<10	0.99	0.03	1.95	<0.02	9.55	6.7	14	<0.05	5.9
457889		2.36	<0.001	0.02	0.63	1.3	<10	1.09	0.03	3.51	<0.02	13.30	8.3	19	0.10	7.1
457890		2.51	0.062	0.80	0.46	2.3	10	0.81	0.03	4.19	<0.02	8.54	6.1	15	0.19	6.1



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 6-AOUT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18177073**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457871		23.9	4.50	0.17	0.4	0.019	0.192	0.37	9.8	2.7	4.39	4880	0.54	0.12	4.4	5.8
457872		20.7	3.74	0.16	0.6	0.014	0.130	0.32	8.3	2.0	4.15	7470	0.65	0.12	5.2	11.3
457873		16.15	1.93	0.10	0.3	0.016	0.065	0.22	6.6	1.2	3.72	6190	0.45	0.09	3.2	6.2
457874		16.05	1.62	0.06	0.3	0.022	0.023	0.17	5.4	0.9	3.65	3100	0.46	0.08	2.7	5.2
457875		16.35	1.67	0.08	0.3	0.025	0.014	0.18	5.0	0.9	4.38	3030	0.37	0.08	2.6	5.2
457876		22.5	3.86	0.08	0.6	0.033	0.026	0.37	8.5	1.4	5.28	7470	0.53	0.17	5.3	13.0
457877		16.85	2.15	0.08	0.3	0.031	0.021	0.24	5.6	0.8	3.79	3390	0.50	0.11	3.5	8.1
457878		19.90	3.05	0.08	0.5	0.020	0.023	0.28	6.4	1.0	4.53	3530	0.47	0.13	4.2	10.5
457879		5.36	14.90	0.09	2.2	0.160	0.049	1.01	14.9	18.3	3.82	735	5.68	1.15	16.5	243
457880		14.40	2.73	0.07	0.4	0.075	0.015	0.22	4.8	1.0	3.67	3210	0.36	0.10	3.5	8.8
457881		22.4	4.39	0.09	0.6	0.015	0.021	0.15	8.7	3.2	5.28	7220	0.41	0.05	5.4	12.8
457882		17.70	1.96	0.07	0.4	0.048	0.019	0.20	6.0	0.7	3.94	3910	0.35	0.09	3.1	4.7
457883		19.55	2.61	0.08	0.5	0.018	0.015	0.04	7.1	2.8	4.41	7960	0.59	0.01	4.4	18.2
457884		21.4	3.43	0.09	0.5	0.006	0.016	0.03	7.9	2.9	4.39	11600	0.29	0.01	4.9	8.6
457885		19.10	3.17	0.08	0.5	<0.005	0.016	0.01	6.7	1.8	3.01	16500	0.46	0.01	5.2	9.4
457886		0.25	0.18	<0.05	<0.1	<0.005	0.005	0.02	1.0	1.4	1.76	177	<0.05	0.02	0.1	0.2
457887		15.80	1.72	0.07	0.2	<0.005	0.009	<0.01	6.2	1.4	2.43	14300	0.32	<0.01	2.4	5.6
457888		17.20	1.84	0.08	0.2	<0.005	0.011	<0.01	5.2	1.5	2.73	14000	0.32	<0.01	2.5	6.4
457889		19.65	3.19	0.07	0.4	<0.005	0.014	0.02	6.6	2.8	3.57	16350	0.35	<0.01	4.1	8.7
457890		16.35	2.32	0.07	0.4	<0.005	0.014	0.04	4.4	2.7	3.36	13650	0.22	<0.01	3.7	5.7



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 6-AOUT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18177073**

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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457871		610	7.0	10.8	<0.002	1.81	0.90	1.9	1	1.7	5.3	0.19	0.09	0.83	0.065	0.07
457872		470	2.3	9.0	<0.002	0.85	0.74	2.2	<1	1.5	5.1	0.28	<0.05	0.93	0.080	0.05
457873		540	2.1	5.6	<0.002	0.46	0.18	1.2	1	0.8	55.3	0.18	<0.05	0.50	0.052	0.04
457874		410	1.1	4.2	<0.002	0.13	0.13	1.0	1	0.6	48.7	0.14	<0.05	0.41	0.045	0.02
457875		370	1.8	4.4	<0.002	0.15	0.13	1.1	1	0.4	80.8	0.15	<0.05	0.41	0.043	0.02
457876		550	2.6	9.2	<0.002	0.22	0.21	2.6	1	0.8	61.9	0.29	<0.05	0.86	0.104	0.03
457877		430	1.2	6.0	<0.002	0.19	0.15	1.5	1	0.5	43.8	0.19	<0.05	0.53	0.060	0.02
457878		460	1.2	6.5	<0.002	0.13	0.14	2.0	1	0.5	50.3	0.23	<0.05	0.70	0.077	0.02
457879		1070	9.0	36.1	<0.002	0.08	0.75	22.1	1	1.0	269	0.86	0.23	2.16	0.642	0.18
457880		310	4.9	5.4	<0.002	0.11	0.13	1.8	1	0.4	68.2	0.20	0.09	0.61	0.069	0.02
457881		630	2.3	4.5	<0.002	0.22	0.08	3.0	1	0.4	57.6	0.34	<0.05	1.09	0.110	0.06
457882		380	0.9	4.9	<0.002	0.11	0.08	1.2	1	0.3	34.3	0.20	<0.05	0.53	0.062	0.02
457883		470	3.4	1.2	<0.002	0.31	0.09	2.1	1	0.3	67.0	0.31	0.05	0.77	0.094	0.02
457884		600	1.4	1.1	<0.002	0.14	0.10	1.8	1	0.3	40.4	0.29	<0.05	0.74	0.098	0.02
457885		440	0.7	0.3	<0.002	0.09	0.09	2.0	1	0.2	16.5	0.30	0.05	0.67	0.119	<0.02
457886		60	<0.5	0.7	<0.002	<0.01	<0.05	0.2	1	<0.2	82.2	<0.05	<0.05	0.05	0.005	<0.02
457887		480	0.6	<0.1	<0.002	0.05	0.06	1.1	1	<0.2	14.9	0.13	<0.05	0.35	0.053	<0.02
457888		380	1.0	0.1	<0.002	0.10	0.07	1.3	1	0.2	17.4	0.13	<0.05	0.36	0.052	<0.02
457889		490	1.3	0.7	<0.002	0.10	0.09	1.9	1	0.2	30.2	0.24	<0.05	0.62	0.084	<0.02
457890		280	1.4	1.5	<0.002	0.08	0.07	1.4	1	0.3	33.7	0.20	<0.05	0.63	0.079	0.03



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 6-AOUT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18177073**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457871		0.7	38	0.2	9.1	32	17.6
457872		0.9	38	0.2	7.3	27	24.6
457873		0.4	27	0.2	7.2	19	13.8
457874		0.2	24	0.2	5.4	24	12.0
457875		0.3	26	0.2	6.2	27	12.1
457876		0.7	50	0.3	7.6	39	26.9
457877		0.4	32	0.3	5.9	24	16.6
457878		0.4	42	0.3	6.6	23	21.5
457879		0.6	138	8.4	14.7	82	95.1
457880		0.4	36	0.4	5.0	17	17.7
457881		0.7	65	0.4	6.4	27	29.7
457882		0.2	27	0.2	4.4	23	16.0
457883		0.5	41	0.3	6.1	20	23.8
457884		0.4	47	0.4	7.3	23	25.6
457885		0.4	55	0.4	7.9	21	25.9
457886		0.2	1	<0.1	2.0	8	1.7
457887		0.2	32	0.3	7.0	14	11.7
457888		0.2	31	0.3	7.5	13	11.7
457889		0.4	50	0.4	9.1	18	19.6
457890		0.4	34	0.4	6.5	16	19.4



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **6-AOUT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18177073**

	<b>COMMENTAIRE DE CERTIFICAT</b>								
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 6-AOUT-2018  
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## CERTIFICAT VO18177105

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-014

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 6-AOUT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18177105**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457891		2.65	<0.001	0.01	0.48	2.6	10	0.99	0.02	2.98	<0.02	16.10	7.3	15	0.15	4.7
457892		2.48	<0.001	0.01	0.53	21.2	<10	0.90	0.03	2.87	<0.02	12.90	8.8	20	0.05	7.8
457893		2.55	<0.001	0.02	0.66	2.2	10	1.13	0.03	2.28	<0.02	15.10	8.9	17	0.18	9.7
457894		2.56	0.001	0.03	0.97	9.3	<10	1.75	0.04	1.96	<0.02	17.45	11.7	26	0.06	14.3
457895		2.30	<0.001	0.06	0.81	29.8	10	1.16	0.04	2.22	<0.02	15.15	11.0	19	0.10	12.9
457896		2.32	<0.001	0.02	0.50	7.6	10	0.86	0.02	3.81	<0.02	13.85	7.2	14	0.13	5.4
457897		1.63	<0.001	0.27	1.32	2.3	20	0.92	0.03	3.59	0.02	11.60	12.0	37	0.16	15.1
457898		2.37	<0.001	0.01	0.43	8.1	10	1.02	0.03	4.20	<0.02	12.30	6.7	12	0.14	4.9
457899		Not Recvd														
457900		2.66	<0.001	0.03	0.68	27.9	10	1.16	0.03	3.99	0.02	15.10	9.4	16	0.13	6.9
403501		2.54	<0.001	0.02	0.72	4.0	20	0.83	0.03	4.14	0.03	14.65	7.1	21	0.27	7.9
403502		2.54	<0.001	0.02	0.74	3.9	10	1.04	0.03	3.10	0.06	16.55	7.5	22	0.12	9.6
403503		2.54	<0.001	0.02	0.37	6.1	10	0.82	0.02	1.20	0.13	8.44	7.2	17	<0.05	6.3
403504		2.61	0.001	0.04	0.63	5.8	10	0.68	0.04	1.18	0.09	17.10	8.6	26	0.07	10.7
403505		2.26	<0.001	0.06	0.68	4.6	10	0.92	0.02	3.01	0.06	10.10	7.4	23	0.07	6.4
403506		0.27	<0.001	<0.01	0.06	<0.2	10	0.05	0.01	31.4	0.02	0.88	1.2	2	<0.05	1.6
403507		2.46	<0.001	0.03	0.85	9.3	10	0.84	0.02	3.20	0.06	20.5	8.7	18	0.12	9.6
403508		2.33	<0.001	0.02	0.53	10.0	10	0.78	0.03	2.61	0.06	10.15	6.9	13	0.11	11.8
403509		2.46	0.003	0.02	0.74	21.2	10	0.97	0.02	2.64	0.05	12.45	8.5	16	0.15	10.7
403510		2.18	<0.001	0.03	0.37	11.6	<10	0.44	0.03	1.36	0.08	7.16	5.4	14	0.05	9.3



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
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 Finalisée date: 6-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18177105**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457891		17.50	2.39	0.08	0.4	<0.005	0.013	0.03	8.1	2.7	3.09	15050	0.32	<0.01	3.6	7.5
457892		17.75	2.69	0.09	0.4	<0.005	0.013	0.01	6.3	2.6	2.90	14700	0.36	<0.01	4.1	11.6
457893		19.85	3.39	0.10	0.5	<0.005	0.015	0.03	7.5	3.5	3.25	15900	0.35	<0.01	4.9	8.3
457894		23.2	4.56	0.10	0.7	<0.005	0.022	0.01	8.4	4.4	3.60	18300	0.33	<0.01	6.8	13.5
457895		21.0	3.95	0.10	0.6	<0.005	0.018	0.01	7.2	4.0	3.47	16100	0.35	<0.01	5.4	11.2
457896		18.25	2.63	0.08	0.4	<0.005	0.012	0.02	6.9	3.1	3.50	15050	0.34	<0.01	3.7	6.3
457897		17.00	4.04	0.08	0.5	<0.005	0.019	0.04	5.5	5.3	3.45	12750	0.36	0.20	3.7	20.3
457898		17.30	1.99	0.07	0.3	<0.005	0.012	0.03	6.1	3.0	3.46	13800	0.33	<0.01	2.9	5.6
457899																
457900		19.55	3.37	0.09	0.6	<0.005	0.013	0.02	7.5	3.7	3.84	14650	0.42	<0.01	4.8	8.3
403501		17.50	3.52	0.09	0.6	<0.005	0.016	0.05	7.2	4.5	3.57	13100	0.33	<0.01	5.1	7.2
403502		18.45	3.61	0.08	0.5	<0.005	0.017	0.02	8.3	4.0	3.20	14100	0.50	<0.01	5.0	8.6
403503		16.05	2.12	0.08	0.3	<0.005	0.009	0.01	4.5	2.3	1.94	12250	0.54	<0.01	2.6	8.6
403504		18.50	3.63	0.09	0.6	<0.005	0.016	0.01	8.5	3.5	2.40	14500	0.71	<0.01	5.8	10.5
403505		15.90	3.61	0.08	0.4	<0.005	0.014	0.01	5.2	3.7	2.63	12850	0.43	<0.01	4.1	8.8
403506		0.23	0.23	<0.05	<0.1	<0.005	0.005	0.01	1.0	1.1	1.50	175	<0.05	0.03	0.1	0.5
403507		23.5	4.25	0.10	0.7	0.005	0.019	0.02	11.2	4.3	3.59	21300	0.57	<0.01	7.2	9.6
403508		17.65	2.50	0.08	0.4	<0.005	0.013	0.02	5.4	3.1	2.57	16000	0.34	<0.01	4.5	7.7
403509		18.40	3.82	0.09	0.6	<0.005	0.015	0.03	6.1	4.2	2.70	17700	0.36	0.01	5.8	12.3
403510		12.60	2.06	0.06	0.2	<0.005	0.009	0.01	3.8	2.4	1.64	11550	1.02	<0.01	2.6	10.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 6-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18177105**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457891		690	1.2	1.1	<0.002	0.06	0.07	1.4	1	0.2	23.8	0.21	<0.05	0.64	0.079	0.02
457892		390	1.3	0.3	<0.002	0.10	0.07	1.7	1	0.2	22.3	0.23	0.05	0.59	0.090	<0.02
457893		500	1.3	1.2	<0.002	0.13	0.08	2.1	1	0.3	19.1	0.28	<0.05	0.65	0.107	0.02
457894		550	1.7	0.3	<0.002	0.24	0.09	3.1	1	0.3	16.2	0.40	0.06	1.00	0.141	<0.02
457895		430	2.8	0.6	<0.002	0.22	0.09	2.6	1	0.3	17.1	0.32	0.07	0.93	0.110	<0.02
457896		490	1.5	0.9	<0.002	0.09	0.07	1.4	1	0.3	25.3	0.20	<0.05	0.64	0.082	<0.02
457897		420	2.2	1.4	<0.002	0.11	0.08	6.2	1	0.3	32.9	0.21	<0.05	0.57	0.162	0.02
457898		490	1.9	1.1	<0.002	0.08	0.06	1.3	1	0.2	26.9	0.16	0.05	0.52	0.063	<0.02
457899																
457900		510	1.8	1.0	<0.002	0.12	0.07	1.9	1	0.2	25.6	0.28	0.07	0.92	0.106	0.02
403501		480	2.5	2.1	<0.002	0.15	0.07	2.2	1	0.4	27.6	0.30	<0.05	0.88	0.108	0.03
403502		540	3.5	0.9	<0.002	0.15	0.08	2.5	1	0.3	21.8	0.28	<0.05	0.75	0.109	0.02
403503		320	2.6	0.3	<0.002	0.10	0.06	1.3	1	<0.2	7.9	0.15	<0.05	0.41	0.056	<0.02
403504		430	2.7	0.6	<0.002	0.18	0.08	2.2	1	0.2	8.6	0.34	0.05	0.85	0.124	<0.02
403505		420	3.1	0.6	<0.002	0.09	0.06	2.0	1	0.2	20.8	0.22	<0.05	0.67	0.074	<0.02
403506		50	<0.5	0.5	<0.002	<0.01	0.05	0.3	1	<0.2	75.6	<0.05	<0.05	0.05	0.005	<0.02
403507		720	2.2	0.9	<0.002	0.15	0.08	2.8	1	0.3	21.3	0.43	<0.05	0.91	0.167	<0.02
403508		530	2.3	0.9	<0.002	0.18	0.06	1.7	1	0.3	18.2	0.26	0.05	0.55	0.100	0.02
403509		530	2.3	1.2	<0.002	0.16	0.08	2.4	1	0.4	18.2	0.35	0.10	0.71	0.132	0.02
403510		280	7.5	0.4	0.002	0.08	0.07	1.2	1	0.2	8.9	0.15	<0.05	0.35	0.057	<0.02





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
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Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18177105**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.  
CRU-31 CRU-QC LOG-21 PUL-31  
PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
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Compte: MINVIR

## CERTIFICAT VO18177109

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-015

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18177109**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403511		2.41	0.001	0.03	0.54	7.9	10	1.04	0.03	1.27	0.08	10.25	6.9	22	0.06	10.4
403512		2.59	<0.001	0.04	0.84	14.6	20	1.11	0.04	0.93	0.18	16.20	11.2	21	0.24	19.5
403513		2.59	<0.001	0.04	0.35	3.8	10	1.03	0.02	1.87	0.13	9.45	6.7	14	0.09	11.6
403514		2.41	<0.001	0.07	0.37	3.7	10	0.68	0.05	7.66	0.15	9.39	8.6	11	0.24	61.5
403515		2.60	<0.001	0.02	0.23	1.3	10	0.63	0.03	7.17	0.08	5.86	4.8	8	0.19	33.7
403516		2.54	<0.001	0.01	0.33	0.5	10	0.67	0.02	6.31	0.07	8.14	5.1	11	0.16	14.2
403517		2.56	<0.001	0.01	0.30	0.8	<10	0.78	0.02	4.16	0.05	8.33	4.9	12	0.06	5.9
403518		2.66	<0.001	0.02	0.39	0.5	10	0.89	0.02	4.57	0.07	10.65	5.4	16	<0.05	4.4
403519		0.07	2.59	0.43	6.68	11.8	310	1.23	0.16	4.64	0.09	43.5	53.6	318	0.64	80.9
403520		2.44	<0.001	0.02	0.32	5.5	10	0.80	0.03	4.07	0.05	8.87	5.9	12	1.22	5.7
403521		2.44	<0.001	0.01	0.29	1.4	20	0.70	0.02	5.65	0.08	7.71	4.2	12	2.46	2.0
403522		2.57	<0.001	0.01	0.71	8.6	40	0.88	0.03	3.06	0.08	14.75	8.8	18	5.16	6.8
403523		2.58	0.001	0.03	0.55	1.3	30	0.86	0.03	3.39	0.12	11.50	7.3	15	4.23	6.7
403524		2.55	0.008	0.02	0.63	0.8	30	0.60	0.02	3.97	0.11	13.65	7.9	19	4.15	11.2
403525		2.50	0.020	0.01	0.28	1.9	10	0.45	0.02	3.91	0.10	6.93	5.7	12	1.76	8.4
403526		<0.02	0.001	0.02	0.06	0.4	20	0.05	0.02	35.6	0.02	1.09	0.8	3	<0.05	4.3
403527		2.64	<0.001	0.01	0.70	0.2	30	0.80	0.02	6.53	0.14	15.75	7.6	13	3.66	9.8
403528		2.46	0.032	0.13	0.39	1.6	20	0.48	0.02	1.36	0.09	8.06	6.2	22	2.16	14.3
403529		2.38	0.028	0.03	0.49	0.5	20	0.49	0.02	1.12	0.06	9.29	5.8	24	3.07	14.6
403530		2.63	<0.001	0.01	0.78	2.0	20	0.42	0.02	3.50	0.11	12.45	9.3	17	3.01	10.1



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18177109**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
403511		16.60	3.30	0.07	0.5	<0.005	0.015	0.01	5.4	3.3	2.02	14550	0.57	<0.01	4.2	9.1
403512		21.8	5.03	0.09	0.7	0.005	0.019	0.04	7.7	5.6	2.45	19400	0.56	<0.01	6.4	12.5
403513		18.80	1.82	0.09	0.3	<0.005	0.007	0.01	5.0	2.4	2.26	16000	0.79	<0.01	2.4	5.5
403514		15.85	1.48	0.08	0.3	0.009	0.012	0.04	5.3	3.3	4.33	11200	1.18	<0.01	2.4	7.1
403515		13.45	0.91	0.05	0.2	<0.005	<0.005	0.04	3.2	2.2	3.91	9620	0.51	<0.01	1.8	5.6
403516		16.45	1.26	0.07	0.2	<0.005	0.005	0.03	4.4	2.2	3.91	12600	0.51	<0.01	2.0	4.7
403517		16.20	1.18	0.05	0.2	<0.005	0.005	0.01	4.5	1.8	3.23	11300	0.63	<0.01	2.1	4.9
403518		18.55	1.66	0.08	0.3	<0.005	0.008	<0.01	5.6	1.7	3.70	13000	0.56	<0.01	2.8	5.4
403519		7.19	17.50	0.12	3.2	0.057	0.058	0.95	21.2	9.7	5.31	1040	2.86	1.94	29.0	350
403520		16.50	1.37	0.07	0.2	0.006	0.006	0.06	4.8	1.2	3.30	12000	0.39	0.03	2.4	5.7
403521		15.80	1.24	0.07	0.2	<0.005	0.007	0.11	4.1	1.0	3.66	11900	0.28	0.05	1.9	4.0
403522		19.35	3.29	0.09	0.5	0.019	0.016	0.23	7.3	1.6	3.31	14450	0.58	0.09	4.6	10.5
403523		21.0	2.84	0.10	0.4	0.016	0.012	0.18	6.0	1.5	3.42	17550	0.65	0.08	3.9	8.7
403524		19.15	3.12	0.09	0.5	0.017	0.014	0.18	6.6	1.6	3.44	15950	1.02	0.08	4.5	8.9
403525		12.65	1.43	0.05	0.2	0.012	0.006	0.08	3.5	0.9	2.57	12250	0.48	0.03	2.3	4.7
403526		0.10	0.26	<0.05	<0.1	<0.005	<0.005	0.01	1.3	1.0	1.33	84	0.62	0.03	0.1	2.7
403527		20.4	3.66	0.09	0.5	0.018	0.015	0.16	7.7	1.9	4.38	18650	0.52	0.07	4.9	7.5
403528		14.75	1.83	0.07	0.3	0.031	0.010	0.10	4.2	1.0	2.10	14650	0.35	0.05	2.4	7.3
403529		13.50	2.23	0.07	0.4	0.012	0.013	0.13	4.9	1.0	1.97	12700	0.41	0.06	3.6	6.8
403530		16.80	4.05	0.08	0.6	0.018	0.014	0.13	6.4	2.0	3.50	15350	0.77	0.06	5.3	10.9





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18177109**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403511		410	2.9	0.4	<0.002	0.15	0.07	1.9	1	0.2	8.9	0.27	0.06	0.60	0.099	<0.02
403512		570	2.4	2.1	<0.002	0.25	0.09	2.8	1	0.4	7.0	0.40	0.06	0.89	0.151	0.03
403513		420	1.9	0.8	<0.002	0.09	0.07	1.2	1	0.2	9.8	0.14	0.05	0.35	0.052	<0.02
403514		470	5.2	2.2	<0.002	0.20	0.05	1.1	2	0.3	44.5	0.14	0.09	0.34	0.050	0.02
403515		260	3.1	1.7	<0.002	0.18	0.05	0.8	2	0.2	42.1	0.10	<0.05	0.23	0.036	0.02
403516		370	2.5	1.3	<0.002	0.08	0.05	1.0	1	0.2	36.5	0.11	<0.05	0.30	0.042	<0.02
403517		370	2.1	0.5	<0.002	0.07	0.05	0.9	1	<0.2	26.9	0.11	<0.05	0.29	0.043	<0.02
403518		450	1.9	0.1	<0.002	0.05	0.07	1.3	<1	<0.2	32.6	0.15	<0.05	0.40	0.057	<0.02
403519		1810	4.7	30.6	<0.002	0.03	0.33	22.8	1	1.3	469	1.59	0.08	2.46	1.015	0.06
403520		390	2.0	1.7	<0.002	0.07	0.09	1.0	1	<0.2	35.5	0.12	<0.05	0.33	0.048	<0.02
403521		380	2.2	3.3	<0.002	0.02	0.10	1.0	1	<0.2	54.0	0.11	<0.05	0.28	0.039	<0.02
403522		520	1.6	6.7	<0.002	0.09	0.15	2.2	1	0.3	32.2	0.27	<0.05	0.67	0.104	<0.02
403523		450	1.8	5.4	<0.002	0.08	0.11	1.9	1	0.2	32.9	0.23	<0.05	0.54	0.085	<0.02
403524		420	1.9	5.2	<0.002	0.11	0.10	2.1	1	0.2	40.8	0.27	<0.05	0.66	0.101	<0.02
403525		280	1.5	2.2	<0.002	0.09	0.06	0.9	1	<0.2	33.3	0.13	<0.05	0.28	0.047	<0.02
403526		50	2.7	0.3	0.002	0.01	0.09	0.2	1	<0.2	84.2	<0.05	<0.05	0.08	0.006	<0.02
403527		590	2.2	4.6	<0.002	0.09	0.10	2.4	1	0.2	61.5	0.30	<0.05	0.71	0.112	<0.02
403528		360	1.1	2.9	<0.002	0.19	0.14	1.3	1	<0.2	13.2	0.13	<0.05	0.36	0.054	0.02
403529		360	0.9	3.8	<0.002	0.17	0.10	1.6	1	0.2	11.5	0.21	<0.05	0.55	0.068	<0.02
403530		530	1.9	3.9	<0.002	0.10	0.16	2.4	1	0.2	34.2	0.28	<0.05	0.85	0.094	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18177109**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
403511		0.4	55	0.3	5.1	40	21.1
403512		0.6	82	0.4	7.2	73	31.9
403513		0.2	29	0.2	6.3	51	11.6
403514		0.2	27	0.3	6.2	67	12.2
403515		0.1	19	0.2	4.5	40	7.7
403516		0.1	24	0.3	5.7	30	9.2
403517		0.1	23	0.2	6.3	21	9.7
403518		0.2	32	0.3	7.2	23	13.4
403519		0.6	141	3.2	20.9	102	140.0
403520		0.2	25	0.2	6.2	17	11.0
403521		0.2	24	0.2	5.9	15	8.7
403522		0.4	61	0.8	7.6	34	22.5
403523		0.4	55	0.4	7.6	38	18.7
403524		0.4	59	0.4	6.8	37	22.4
403525		0.2	28	0.2	4.3	22	10.3
403526		0.3	1	0.1	2.1	6	1.8
403527		0.4	70	0.4	8.9	41	25.4
403528		0.2	35	0.2	5.1	25	11.7
403529		0.3	45	0.2	4.6	21	17.8
403530		0.4	66	0.2	5.4	31	28.9



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
**11-AOUT-2018**  
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**CERTIFICAT D'ANALYSE VO18177109**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
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## CERTIFICAT VO18177120

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-016

Ce rapport s'applique aux 14 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
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LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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À: **MINIÈRE OSISKO INC.**  
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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18177120**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403531		2.25	<0.001	0.02	0.80	2.5	40	0.47	0.03	6.23	0.18	11.30	7.7	17	5.38	13.0
403532		2.34	0.004	0.05	0.78	2.2	40	0.46	0.07	3.54	0.16	13.95	11.9	21	6.10	90.5
403533		2.26	<0.001	0.02	0.45	0.2	40	0.53	0.04	2.71	0.22	13.50	7.1	11	5.29	24.6
403534		2.27	<0.001	0.03	0.76	0.7	50	0.48	0.08	5.10	0.25	15.20	12.7	16	7.73	81.5
403535		2.47	0.006	0.85	0.44	1.0	40	0.34	0.03	6.64	0.25	11.15	5.9	11	4.43	18.0
403536		2.38	0.043	0.02	0.53	1.1	40	0.35	0.04	5.28	0.25	9.82	6.9	15	4.78	31.2
403537		2.57	0.050	0.03	0.83	1.1	30	0.33	0.04	2.98	0.25	11.00	8.2	22	4.48	39.5
403538		2.48	0.003	0.01	0.61	0.8	40	0.45	0.03	2.45	0.24	9.05	7.8	20	5.55	31.1
403539		0.06	7.73	1.26	6.17	31.3	320	0.96	0.48	3.03	0.09	31.6	40.3	322	0.68	109.0
403540		2.47	0.224	0.04	0.96	0.2	50	0.41	0.04	3.30	0.33	10.45	8.2	30	7.84	50.8
403541		2.71	2.68	0.64	1.40	0.9	50	0.55	0.07	4.84	0.30	18.85	11.6	23	7.43	76.8
403542		2.40	0.027	0.01	0.85	0.5	70	0.45	0.03	3.09	0.21	11.70	8.3	16	5.51	38.4
403543		2.30	0.005	0.01	0.56	0.4	20	0.24	0.01	3.71	0.16	8.89	5.6	16	1.99	11.2
403544		2.45	<0.001	0.03	2.61	0.3	40	0.49	0.06	3.21	0.17	31.2	18.4	77	3.88	43.5



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18177120**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
403531		16.55	3.70	0.08	0.5	0.019	0.023	0.24	5.8	1.8	4.24	11650	0.75	0.11	4.7	10.1
403532		18.15	3.84	0.08	0.5	0.031	0.023	0.27	6.7	1.4	3.89	8840	0.61	0.11	4.7	12.2
403533		19.50	2.22	0.10	0.4	0.034	0.018	0.24	6.4	1.3	4.40	9340	0.20	0.10	4.5	5.4
403534		21.5	3.63	0.09	0.5	0.067	0.023	0.34	7.2	1.6	5.06	10250	0.28	0.15	4.8	11.8
403535		16.35	2.12	0.07	0.3	0.020	0.016	0.20	5.7	1.3	4.61	9900	0.37	0.09	3.3	7.6
403536		16.25	2.62	0.08	0.3	0.032	0.015	0.22	4.9	1.2	4.22	10200	0.40	0.10	2.8	10.0
403537		17.90	4.40	0.08	0.5	0.051	0.016	0.21	5.7	1.6	3.85	12750	0.35	0.09	3.9	11.3
403538		18.10	3.08	0.07	0.4	0.029	0.017	0.26	4.7	1.2	3.95	10200	0.40	0.11	3.1	11.3
403539		5.60	14.80	0.07	2.4	0.186	0.047	1.07	16.3	14.9	4.16	740	6.22	1.19	15.2	249
403540		18.85	4.67	0.08	0.5	0.034	0.027	0.36	5.4	1.6	4.08	11200	0.31	0.15	4.3	11.9
403541		21.0	5.97	0.10	0.7	0.191	0.032	0.34	9.0	2.7	4.41	19900	0.42	0.14	6.0	16.0
403542		16.65	3.81	0.08	0.5	0.026	0.022	0.27	5.8	1.7	3.33	18200	0.31	0.11	3.8	12.1
403543		10.55	2.46	0.06	0.3	0.011	0.013	0.10	4.5	1.6	2.36	12600	0.42	0.04	2.7	10.7
403544		13.90	7.82	0.10	1.2	0.016	0.032	0.23	14.6	6.7	3.30	8300	1.26	0.07	8.4	45.9



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18177120**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403531		500	3.2	6.9	<0.002	0.13	0.21	2.8	1	0.2	74.6	0.27	<0.05	0.79	0.090	<0.02
403532		510	2.3	7.7	<0.002	0.73	0.27	2.6	2	0.2	45.6	0.25	0.09	0.80	0.101	0.02
403533		450	1.5	6.8	<0.002	0.27	1.29	1.6	1	0.3	42.3	0.24	<0.05	0.52	0.086	0.02
403534		580	2.9	10.1	<0.002	0.82	0.88	2.1	2	0.2	77.4	0.27	0.07	0.70	0.091	0.03
403535		380	3.4	5.8	<0.002	0.17	0.69	1.7	1	0.2	82.0	0.17	<0.05	0.49	0.062	<0.02
403536		360	2.5	6.3	<0.002	0.30	0.35	1.7	1	0.2	69.8	0.17	<0.05	0.49	0.056	<0.02
403537		500	1.8	5.9	<0.002	0.37	0.52	2.7	1	0.2	47.0	0.23	<0.05	0.68	0.088	<0.02
403538		440	1.7	7.4	<0.002	0.28	0.75	2.1	1	0.2	41.6	0.17	<0.05	0.52	0.070	0.02
403539		1130	9.9	38.0	<0.002	0.08	0.79	20.3	1	1.0	281	0.89	0.24	2.45	0.684	0.19
403540		530	2.4	10.5	<0.002	0.36	0.44	3.5	1	0.2	57.8	0.25	<0.05	0.66	0.101	0.02
403541		550	2.6	10.4	0.002	0.61	0.42	4.1	2	0.3	68.2	0.34	0.07	1.26	0.124	0.02
403542		450	1.7	8.4	<0.002	0.30	0.28	2.4	1	0.2	46.3	0.22	<0.05	0.80	0.073	0.03
403543		430	1.4	3.6	<0.002	0.09	0.15	1.6	1	0.2	54.9	0.14	<0.05	0.60	0.045	<0.02
403544		650	2.3	8.8	<0.002	0.39	0.12	9.6	1	0.4	77.8	0.56	0.06	2.51	0.271	0.03



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18177120**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
403531		0.4	73	0.2	6.5	36	23.3
403532		0.6	67	0.2	5.6	44	26.2
403533		0.2	39	0.1	5.5	82	20.5
403534		0.4	60	0.2	6.6	85	23.7
403535		0.2	38	0.2	5.6	54	15.7
403536		0.4	44	0.2	5.0	52	15.9
403537		0.4	73	0.2	4.9	58	21.8
403538		0.4	56	0.2	4.5	64	16.8
403539		0.6	147	9.1	15.4	83	98.0
403540		0.6	79	0.1	5.3	64	25.6
403541		1.0	113	0.2	6.3	63	35.6
403542		0.5	69	0.1	4.7	51	21.5
403543		0.7	39	0.1	4.2	28	12.8
403544		1.5	92	0.3	6.6	84	53.2





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18177120**

	<b>COMMENTAIRE DE CERTIFICAT</b>												
	<b>COMMENTAIRES ANALYTIQUES</b>												
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61												
	<b>ADRESSE DE LABORATOIRE</b>												
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.												
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> </tr> <tr> <td></td> <td></td> <td>LOG-23</td> </tr> <tr> <td></td> <td></td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	PUL-31	PUL-QC	SPL-21			LOG-23			WEI-21
CRU-31	CRU-QC	LOG-21											
PUL-31	PUL-QC	SPL-21											
		LOG-23											
		WEI-21											
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.												
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61									
Au-ICP21	Hg-MS42	ME-MS61											



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
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## CERTIFICAT VO18177129

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Bon de commande #: KANDH18-049

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
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LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

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Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456961		4.40	<0.001	0.18	9.48	1.0	510	2.34	0.17	0.32	0.04	71.7	13.7	97	3.78	40.8
456962		4.81	<0.001	0.07	7.98	0.3	430	1.78	0.08	0.17	<0.02	54.4	9.7	74	3.16	42.1
456963		4.34	<0.001	0.05	9.93	<0.2	510	2.14	0.17	0.11	0.02	76.8	12.9	90	3.74	39.4
456964		4.56	<0.001	0.10	8.30	0.2	480	1.89	0.22	0.25	0.04	57.5	9.5	76	3.63	20.0
456965		4.34	<0.001	0.03	8.78	<0.2	450	2.27	0.15	0.21	0.08	55.0	10.9	87	8.03	26.3
456966		4.54	<0.001	0.12	8.65	0.7	490	2.17	0.44	0.54	0.13	43.5	17.2	133	6.16	38.6
456967		4.73	<0.001	0.10	7.43	4.1	470	1.55	0.29	0.55	0.07	57.0	21.8	91	6.10	32.2
456968		3.68	<0.001	0.11	6.80	0.4	510	1.59	0.29	0.31	0.09	53.6	17.1	66	7.15	27.8
456969		0.07	2.51	0.46	7.01	11.6	330	1.16	0.17	4.87	0.07	43.3	53.3	323	0.69	83.2
456970		3.45	<0.001	0.04	4.93	<0.2	200	1.27	0.09	0.36	0.06	22.4	22.7	76	4.88	30.7
456971		3.21	<0.001	0.04	1.29	2.3	20	0.72	0.04	2.56	0.07	18.20	10.4	47	1.00	23.1
456972		3.17	<0.001	0.02	0.92	0.3	<10	0.69	0.04	3.36	0.04	10.95	7.9	21	0.09	13.1
456973		4.56	0.009	0.45	5.99	6.8	130	1.13	0.69	0.77	0.30	20.0	39.4	143	1.25	201
456974		4.39	<0.001	0.03	6.68	<0.2	330	1.33	0.07	0.62	0.07	51.9	19.6	66	2.93	60.5
456975		4.52	<0.001	0.04	7.25	<0.2	510	1.57	0.11	0.80	0.07	52.9	15.5	73	6.60	37.8
456976		0.22	<0.001	<0.01	0.09	<0.2	10	0.05	<0.01	32.6	<0.02	1.21	0.8	2	<0.05	1.4
456977		4.79	<0.001	0.04	7.10	0.2	430	1.51	0.09	1.04	0.12	52.5	14.7	75	6.27	67.9
456978		4.55	<0.001	0.06	7.49	<0.2	390	1.64	0.11	0.76	0.13	59.6	16.8	76	5.81	23.8
456979		4.74	<0.001	0.04	8.56	4.9	540	1.85	0.08	0.62	0.08	58.5	14.7	88	3.75	35.9
456980		4.38	<0.001	0.03	7.00	0.4	430	1.54	0.07	0.33	0.13	62.5	7.0	66	2.36	31.9



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**CERTIFICAT D'ANALYSE VO18177129**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456961		6.83	26.3	0.18	2.5	<0.005	0.057	4.53	36.5	39.9	1.61	672	0.67	0.29	8.7	41.6
456962		5.19	22.1	0.10	2.0	0.006	0.048	4.02	28.3	30.6	1.24	539	0.73	0.11	7.8	29.3
456963		4.45	28.2	0.13	2.7	<0.005	0.055	5.39	39.4	37.8	1.12	346	1.34	0.08	9.4	34.8
456964		3.55	23.6	0.12	3.2	<0.005	0.052	4.77	29.3	31.8	0.94	433	0.64	0.12	8.9	28.6
456965		5.64	23.9	0.11	2.1	0.005	0.053	5.14	29.2	40.0	1.14	405	0.31	0.13	7.6	29.4
456966		6.52	24.9	0.12	2.2	<0.005	0.050	4.85	20.7	44.3	1.89	1250	1.52	0.09	7.1	49.0
456967		7.30	21.1	0.12	2.3	<0.005	0.028	3.69	28.5	35.2	1.65	2620	3.35	0.52	7.4	44.6
456968		10.90	18.00	0.10	2.3	<0.005	0.036	3.30	26.1	34.8	1.98	8690	0.74	0.16	7.7	29.5
456969		7.63	18.75	0.11	3.4	0.055	0.060	1.02	21.6	8.9	5.60	1060	3.20	2.04	29.7	355
456970		13.25	14.65	0.08	1.8	<0.005	0.041	1.65	9.7	34.2	2.89	6190	1.02	0.02	5.9	35.4
456971		9.76	4.84	<0.05	0.7	<0.005	0.016	0.25	9.0	6.9	2.17	7900	1.35	<0.01	6.9	27.4
456972		14.40	3.97	0.05	0.4	<0.005	0.023	0.02	5.7	3.0	3.27	9100	0.68	<0.01	3.7	13.1
456973		14.60	22.2	0.08	2.4	0.016	0.132	0.61	8.7	45.8	4.31	4430	0.62	0.22	6.3	62.4
456974		11.35	18.05	0.09	2.3	0.007	0.045	1.51	25.1	31.1	2.17	5170	0.70	0.52	7.5	30.9
456975		8.97	18.75	0.10	2.3	0.005	0.036	2.96	25.9	32.8	1.64	4460	0.61	0.50	7.8	29.5
456976		0.17	0.33	<0.05	<0.1	<0.005	<0.005	0.02	1.3	1.4	1.65	108	0.16	0.03	0.1	0.4
456977		8.89	17.90	0.07	2.3	0.006	0.047	2.93	25.8	28.8	1.67	4720	0.65	0.37	7.9	28.7
456978		8.78	19.05	0.08	2.5	<0.005	0.039	3.27	29.1	30.2	1.44	6210	0.78	0.08	8.4	31.3
456979		5.14	24.1	0.12	2.6	0.005	0.050	4.61	29.1	31.6	1.38	1020	0.62	0.11	8.5	35.1
456980		2.97	19.05	0.12	2.0	<0.005	0.040	3.64	33.0	22.0	0.82	458	0.61	0.06	6.7	25.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**10-AOUT-2018**  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18177129**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456961		240	6.6	139.5	0.002	0.53	0.19	13.2	2	1.9	29.0	0.68	0.22	13.25	0.317	0.81
456962		170	7.8	132.5	0.002	0.42	0.14	9.4	1	1.5	21.4	0.55	0.05	11.00	0.258	0.64
456963		200	7.7	183.0	0.002	0.51	0.28	12.8	1	1.9	23.5	0.69	<0.05	14.90	0.330	0.74
456964		180	20.3	163.5	<0.002	0.18	0.20	10.4	1	1.7	27.7	0.65	0.05	12.60	0.291	0.68
456965		210	8.2	196.0	0.003	0.13	0.20	11.7	1	1.6	21.8	0.59	0.06	12.10	0.253	1.00
456966		290	18.5	132.5	0.004	0.14	0.28	22.4	1	1.4	46.4	0.53	0.20	7.34	0.443	0.83
456967		330	14.8	122.5	0.005	0.42	0.30	11.2	2	0.9	51.9	0.57	0.06	8.94	0.260	0.63
456968		270	15.7	108.5	<0.002	0.24	0.20	9.7	1	1.3	22.4	0.56	<0.05	8.23	0.251	0.60
456969		1870	5.2	32.2	<0.002	0.03	0.34	21.3	1	1.4	489	1.65	0.08	2.77	1.065	0.06
456970		370	3.8	36.8	<0.002	0.32	0.13	13.1	1	1.0	21.1	0.40	<0.05	3.29	0.283	0.42
456971		350	1.9	10.3	<0.002	0.28	0.07	2.9	1	0.4	53.7	0.38	<0.05	1.78	0.123	0.07
456972		360	2.5	0.6	<0.002	0.21	0.09	2.3	1	0.2	32.5	0.20	0.05	1.11	0.067	<0.02
456973		420	33.4	11.0	0.002	0.13	0.11	19.0	1	1.0	27.6	0.42	0.69	1.94	0.703	0.18
456974		300	4.0	51.2	<0.002	0.41	0.11	9.8	1	1.2	34.4	0.53	0.05	7.69	0.243	0.34
456975		250	7.6	119.5	<0.002	0.23	0.15	10.4	1	1.3	38.8	0.57	<0.05	8.17	0.258	0.76
456976		60	0.5	0.6	<0.002	0.01	0.05	0.3	1	<0.2	80.1	<0.05	<0.05	0.10	0.007	<0.02
456977		230	5.0	116.0	<0.002	0.37	0.15	10.3	1	1.4	38.5	0.56	<0.05	8.39	0.255	0.68
456978		300	4.6	129.5	<0.002	0.28	0.17	10.8	1	1.4	33.7	0.63	<0.05	9.44	0.276	0.69
456979		300	6.7	135.5	<0.002	0.27	0.18	14.0	1	1.6	27.2	0.64	<0.05	11.95	0.336	0.58
456980		180	4.0	117.5	<0.002	0.20	0.15	8.3	1	1.4	22.5	0.48	<0.05	10.60	0.232	0.39



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
**10-AOUT-2018**  
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**CERTIFICAT D'ANALYSE VO18177129**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456961		2.2	89	1.7	7.0	88	88.3
456962		1.6	67	1.3	4.7	100	67.8
456963		2.8	101	1.2	7.6	76	94.0
456964		1.9	62	1.4	6.2	61	114.5
456965		1.8	98	1.3	5.9	97	73.6
456966		1.3	216	1.7	5.3	105	77.8
456967		3.2	131	1.2	6.7	103	81.7
456968		1.7	70	1.6	5.4	95	84.2
456969		0.6	150	3.3	20.3	106	145.0
456970		1.0	112	0.6	3.1	100	69.7
456971		1.1	40	0.2	4.3	37	31.3
456972		1.0	68	0.2	4.9	23	20.1
456973		0.7	295	0.6	4.2	247	87.8
456974		1.7	73	1.1	5.7	125	85.8
456975		1.8	75	1.4	6.4	81	85.8
456976		0.2	2	<0.1	2.5	4	1.7
456977		1.8	80	1.1	5.8	92	84.1
456978		2.0	85	1.3	6.5	99	94.2
456979		1.6	96	1.4	5.2	82	93.9
456980		1.6	53	1.2	4.5	55	69.4



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
**10-AOUT-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18177129**

	<b>COMMENTAIRE DE CERTIFICAT</b>								
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
16-AOUT-2018  
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## CERTIFICAT VO18184015

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-020

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18184015**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403591		2.36	<0.001	0.02	0.34	0.3	30	0.41	0.02	10.60	0.02	7.34	3.0	10	0.30	5.7
403592		2.41	<0.001	0.01	0.23	0.4	10	0.30	0.01	10.00	<0.02	6.35	3.2	10	0.38	2.6
403593		2.25	<0.001	0.01	0.27	0.2	10	0.42	0.01	8.58	<0.02	6.46	3.7	11	0.43	3.6
403594		2.31	<0.001	0.01	0.26	0.7	10	0.27	0.01	5.83	0.03	8.14	4.3	11	0.37	3.8
403595		2.07	<0.001	0.01	0.28	0.4	10	0.19	0.01	4.49	0.03	6.62	2.8	14	0.37	3.3
403596		2.11	<0.001	0.05	0.45	0.2	10	0.24	0.01	2.26	0.02	8.04	6.3	17	0.50	7.9
403597		2.52	0.170	0.04	1.39	0.5	10	0.61	0.04	1.73	0.02	25.4	11.4	37	0.54	19.9
403598		2.24	<0.001	0.02	0.40	1.5	10	0.45	0.02	1.55	0.02	8.66	5.5	16	0.27	5.5
403599		0.07	7.67	1.19	5.82	31.0	300	0.75	0.47	2.82	0.07	29.3	36.4	310	0.65	99.8
403600		2.09	<0.001	0.02	0.61	1.2	<10	1.03	0.02	1.34	<0.02	14.95	7.4	25	0.23	9.0
403601		2.18	0.003	0.14	0.58	0.7	<10	0.40	0.03	1.77	0.03	14.00	7.0	18	0.08	13.3
403602		1.88	<0.001	0.03	0.44	1.8	<10	0.33	0.05	15.15	0.06	7.56	8.2	10	<0.05	16.4
403603		2.85	0.001	0.05	0.95	8.2	10	0.31	0.05	9.63	0.16	15.45	14.2	18	0.42	20.0
403604		2.14	<0.001	0.02	0.79	3.3	10	0.30	0.01	8.63	0.14	9.53	7.8	15	0.60	7.3
403605		2.12	<0.001	0.01	0.45	1.0	10	0.24	<0.01	11.20	0.15	5.01	3.1	11	0.25	0.5
403606		0.25	<0.001	<0.01	0.06	<0.2	20	0.08	0.01	35.6	<0.02	1.18	0.5	3	<0.05	0.7
403607		2.20	<0.001	0.01	0.32	1.6	<10	0.26	<0.01	16.55	0.13	6.16	3.2	8	0.16	1.5
403608		2.32	<0.001	0.02	0.88	1.1	10	0.30	0.01	6.76	0.10	13.20	5.6	22	0.45	10.0
403609		2.31	<0.001	0.04	0.68	0.4	10	0.37	0.02	1.34	0.02	11.90	7.3	18	0.39	7.9
403610		2.46	<0.001	0.01	0.46	2.3	30	9.36	0.02	1.02	0.02	11.95	7.1	11	0.73	4.9



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18184015**

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
403591		11.35	1.06	<0.05	0.2	<0.005	0.008	0.14	4.1	1.2	5.28	7730	1.12	0.01	1.9	6.3
403592		10.60	0.74	<0.05	0.2	<0.005	0.006	0.06	3.5	1.3	4.92	7180	1.23	<0.01	1.5	3.8
403593		12.40	0.76	0.05	0.2	<0.005	0.005	0.07	3.6	1.3	4.64	8340	0.80	<0.01	1.5	4.4
403594		11.50	0.98	0.05	0.2	<0.005	0.010	0.05	4.5	1.3	3.40	7690	0.94	<0.01	2.1	4.8
403595		12.15	0.87	<0.05	0.2	<0.005	0.006	0.07	3.8	1.4	2.83	9390	0.67	<0.01	1.4	4.1
403596		15.65	1.55	0.05	0.3	<0.005	0.011	0.07	4.4	1.6	2.74	10600	0.75	<0.01	2.7	8.0
403597		24.1	4.92	0.07	1.0	0.011	0.025	0.07	14.3	3.4	3.45	14100	1.70	<0.01	8.9	17.4
403598		14.10	1.56	0.05	0.3	<0.005	0.010	0.04	4.6	1.5	2.14	9380	0.62	<0.01	2.4	7.5
403599		5.28	13.90	0.05	2.3	0.169	0.040	1.00	14.7	11.3	3.81	739	5.47	1.14	14.6	237
403600		17.75	2.61	0.07	0.5	<0.005	0.015	0.03	8.2	2.2	2.64	13700	0.71	<0.01	4.2	9.0
403601		18.30	2.28	0.07	0.5	<0.005	0.015	0.01	7.5	1.7	2.83	16150	1.00	<0.01	4.4	7.9
403602		13.80	1.63	0.05	0.4	0.006	0.010	0.01	4.1	2.0	7.09	12900	1.85	0.01	2.9	6.8
403603		10.50	4.04	0.05	0.6	0.012	0.008	0.06	8.6	4.4	4.51	8250	3.91	0.01	4.8	14.6
403604		11.55	3.01	0.05	0.4	0.010	0.014	0.10	4.9	3.8	4.87	6040	1.42	0.01	3.0	8.4
403605		7.84	1.61	<0.05	0.3	0.008	0.009	0.05	2.4	3.3	4.91	5230	0.49	0.01	1.9	4.1
403606		0.20	0.23	<0.05	0.1	<0.005	<0.005	0.01	1.4	0.7	1.29	162	0.05	0.03	0.1	0.2
403607		10.00	1.25	<0.05	0.3	<0.005	0.007	0.03	3.3	2.7	6.64	7590	0.45	0.01	1.6	3.7
403608		11.25	3.17	<0.05	0.5	0.008	0.011	0.07	7.3	3.0	3.97	8900	1.48	0.01	4.4	9.3
403609		18.20	2.52	0.05	0.5	<0.005	0.014	0.06	6.3	2.2	2.88	16350	0.80	<0.01	4.4	9.5
403610		20.4	1.82	0.06	0.4	<0.005	0.011	0.13	6.1	2.4	2.88	16400	0.34	<0.01	3.7	6.2



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18184015**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403591		360	4.9	3.5	<0.002	0.05	0.08	0.7	1	0.2	50.4	0.12	<0.05	0.38	0.050	0.04
403592		260	1.7	2.5	<0.002	0.04	0.07	0.6	<1	<0.2	51.0	0.09	<0.05	0.27	0.035	0.04
403593		310	1.4	2.7	<0.002	0.07	0.07	0.6	1	<0.2	39.7	0.10	<0.05	0.32	0.039	0.05
403594		290	1.2	2.1	<0.002	0.06	0.09	0.8	<1	<0.2	34.6	0.12	<0.05	0.35	0.046	0.03
403595		370	0.9	2.3	<0.002	0.06	0.05	0.7	1	0.2	26.6	0.08	<0.05	0.26	0.033	0.04
403596		340	1.0	2.8	<0.002	0.18	0.09	1.3	1	0.2	14.5	0.17	<0.05	0.47	0.071	0.05
403597		630	1.7	2.9	<0.002	0.40	0.15	2.8	1	0.2	12.4	0.60	0.07	1.67	0.221	0.05
403598		310	0.8	1.5	<0.002	0.12	0.09	1.1	1	<0.2	11.0	0.15	<0.05	0.43	0.058	0.03
403599		1050	9.3	32.0	<0.002	0.08	0.78	16.9	1	1.0	267	0.91	0.23	2.26	0.651	0.17
403600		550	0.9	1.3	<0.002	0.17	0.14	1.7	1	<0.2	11.8	0.26	0.05	0.72	0.091	0.02
403601		600	1.2	0.4	<0.002	0.26	0.10	1.5	1	<0.2	18.2	0.29	0.05	0.73	0.110	<0.02
403602		370	2.4	0.2	<0.002	0.26	0.10	1.1	1	<0.2	107.0	0.21	0.06	0.45	0.081	<0.02
403603		780	3.1	2.1	<0.002	0.35	0.12	2.5	1	<0.2	157.5	0.32	0.11	0.84	0.150	0.03
403604		460	2.3	3.3	<0.002	0.15	0.11	2.5	1	0.2	148.5	0.20	<0.05	0.51	0.068	0.04
403605		390	2.7	1.4	<0.002	<0.01	0.08	1.6	1	<0.2	183.5	0.14	<0.05	0.27	0.039	0.02
403606		50	0.5	0.2	<0.002	0.01	0.05	0.2	1	<0.2	86.2	<0.05	<0.05	0.12	0.005	<0.02
403607		250	3.3	0.9	<0.002	0.01	0.07	1.0	<1	<0.2	230	0.11	<0.05	0.47	0.026	<0.02
403608		570	1.6	2.4	<0.002	0.17	0.13	2.3	1	<0.2	97.3	0.29	<0.05	0.86	0.094	0.02
403609		540	0.9	2.4	<0.002	0.15	0.08	1.7	1	<0.2	10.4	0.24	<0.05	0.74	0.099	0.03
403610		420	0.6	4.8	<0.002	0.09	0.08	1.2	1	0.2	6.8	0.20	<0.05	0.51	0.070	0.07



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18184015**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
403591		0.2	25	0.3	4.1	13	9.2
403592		0.1	19	0.2	4.1	7	7.4
403593		0.1	22	0.2	3.6	10	7.2
403594		0.2	23	0.2	3.7	18	11.5
403595		0.2	29	0.2	3.0	20	6.6
403596		0.3	40	0.4	3.0	24	12.8
403597		1.0	119	0.5	5.6	44	38.7
403598		0.2	36	0.2	3.1	20	10.4
403599		0.5	139	8.4	13.7	81	85.0
403600		0.5	53	0.2	4.5	26	19.7
403601		0.4	58	0.5	4.4	27	21.2
403602		0.3	45	0.3	4.1	19	14.4
403603		0.6	78	0.4	5.3	24	26.9
403604		0.4	51	0.2	4.8	20	17.4
403605		0.2	31	0.3	4.0	15	12.7
403606		0.9	1	<0.1	2.2	3	1.6
403607		0.2	26	0.2	3.7	11	11.7
403608		0.4	67	0.3	4.2	23	23.1
403609		0.4	61	0.3	4.0	21	22.5
403610		0.2	38	0.1	3.7	16	17.3



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date:  
**16-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18184015**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
16-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18184030

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-021

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18184030**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403611		2.22	<0.001	0.02	0.60	3.6	20	0.97	0.04	2.46	0.02	12.50	8.3	16	0.82	9.3
403612		2.22	<0.001	0.01	0.38	1.3	20	0.49	0.01	1.47	<0.02	9.14	5.5	12	0.73	4.2
403613		2.30	<0.001	0.01	0.53	0.7	20	0.45	0.01	0.84	<0.02	8.56	7.1	16	0.81	4.4
403614		2.42	<0.001	0.05	0.63	1.2	20	0.85	0.06	2.60	<0.02	8.48	13.9	17	0.89	28.8
403615		1.61	<0.001	0.03	0.88	0.5	20	0.82	0.04	1.02	0.02	17.35	12.2	15	0.82	23.0
403616		2.35	<0.001	0.01	0.48	1.0	10	0.66	0.02	0.83	<0.02	7.64	7.6	15	0.42	5.6
403617		2.38	<0.001	0.01	0.61	1.2	10	0.56	0.03	0.92	0.02	9.35	7.5	21	0.25	10.8
403618		2.07	0.001	0.03	0.77	0.6	<10	0.41	0.02	1.32	0.02	10.65	8.3	15	0.09	11.9
403619		0.07	0.672	0.22	7.40	18.8	330	1.37	0.16	4.49	0.19	52.8	43.3	177	1.96	55.2
403620		2.19	0.001	0.09	0.51	19.4	<10	0.30	0.02	6.56	0.05	8.44	13.1	14	<0.05	9.2
403621		2.26	<0.001	0.01	0.38	1.1	<10	0.40	0.01	14.35	0.09	7.81	4.1	10	<0.05	9.5
403622		3.16	<0.001	0.01	0.72	1.9	<10	0.23	0.02	10.30	0.16	10.05	8.8	12	0.09	62.7
403623		2.01	0.001	0.02	0.94	2.8	20	0.38	0.05	6.49	0.05	9.53	11.1	19	2.13	23.6
403624		2.45	<0.001	0.01	1.24	5.7	<10	0.51	0.03	4.24	0.04	13.45	7.6	23	0.21	21.9
403625		2.06	<0.001	0.01	0.77	29.1	<10	0.44	0.04	4.02	0.02	11.90	11.5	30	0.23	12.3
403626		0.21	<0.001	<0.01	0.06	<0.2	20	<0.05	0.01	32.9	0.02	0.97	0.8	2	<0.05	1.7
403627		2.35	<0.001	0.01	1.05	8.3	<10	0.41	0.03	4.09	<0.02	13.45	8.9	26	0.37	12.2
403628		2.16	<0.001	<0.01	0.25	1.3	20	0.31	0.01	5.48	0.03	5.99	3.3	13	2.59	21.4
403629		2.09	<0.001	<0.01	1.09	1.7	30	0.41	0.01	3.46	0.02	11.05	6.3	27	3.44	8.4
403630		2.37	0.011	0.07	0.61	11.5	30	0.21	0.05	1.48	0.07	13.05	6.2	19	0.81	32.4



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18184030**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
403611		21.0	2.40	0.05	0.5	<0.005	0.012	0.17	6.7	3.4	3.63	16600	0.29	<0.01	5.1	9.0
403612		16.35	1.56	0.05	0.2	<0.005	0.007	0.16	4.8	2.8	2.70	13600	0.22	<0.01	2.6	5.1
403613		18.30	2.27	0.05	0.3	<0.005	0.013	0.18	4.5	3.5	2.90	15050	0.29	<0.01	2.9	7.4
403614		19.00	2.71	<0.05	0.4	<0.005	0.010	0.20	4.5	3.2	3.15	16250	0.97	<0.01	3.3	13.5
403615		21.3	3.92	0.08	0.4	<0.005	0.015	0.18	9.1	3.9	3.01	17800	0.63	<0.01	3.1	11.0
403616		18.65	2.15	0.05	0.2	<0.005	0.007	0.09	4.0	2.2	2.54	16600	0.35	<0.01	2.3	7.5
403617		17.50	2.76	0.06	0.4	<0.005	0.011	0.05	4.9	2.1	2.53	15600	0.32	<0.01	3.2	7.4
403618		18.85	3.31	0.07	0.4	<0.005	0.016	0.02	5.6	2.4	2.69	17200	0.30	<0.01	3.4	12.0
403619		7.47	19.75	0.10	3.7	0.019	0.069	0.90	23.2	13.1	2.98	956	2.48	1.75	20.8	143.5
403620		14.35	1.85	0.05	0.3	<0.005	0.010	<0.01	4.5	1.9	3.98	12700	0.34	<0.01	2.7	25.0
403621		12.60	1.54	<0.05	0.2	<0.005	0.009	0.01	4.0	2.1	6.33	7290	0.14	0.01	2.2	3.3
403622		15.85	2.89	0.05	0.3	<0.005	0.019	0.01	5.2	2.5	5.81	10500	0.19	0.01	2.4	7.4
403623		11.40	3.35	0.07	0.5	<0.005	0.011	0.11	5.2	0.9	3.75	8190	1.25	0.03	3.7	17.2
403624		12.05	5.60	0.08	0.5	0.007	0.016	0.01	7.4	0.9	3.19	9280	0.75	<0.01	4.2	13.7
403625		8.37	2.93	0.07	0.5	0.007	0.013	0.01	6.0	1.0	2.42	5210	0.83	<0.01	4.8	15.1
403626		0.20	0.20	<0.05	<0.1	<0.005	0.006	0.01	1.2	0.9	1.49	144	0.09	0.03	0.2	<0.2
403627		13.65	5.08	0.07	0.6	0.007	0.016	0.02	7.4	0.8	3.57	6710	1.26	0.01	5.6	15.7
403628		7.77	1.08	0.05	0.1	<0.005	0.007	0.13	3.2	0.4	2.66	5920	0.84	0.04	1.1	5.1
403629		7.87	3.49	0.07	0.4	0.006	0.007	0.16	5.6	1.0	2.35	2980	0.50	0.05	2.4	8.6
403630		18.30	3.10	0.09	0.5	<0.005	0.038	0.24	6.9	5.9	3.20	10900	0.61	0.01	3.6	10.5





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18184030**

Description échantillon	Méthode		élément													
	unités		ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	LDI		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	
403611	500	1.1	6.4	<0.002	0.15	0.16	1.8	1	0.3	14.9	0.27	0.08	0.65	0.096	0.09	
403612	340	0.6	6.0	<0.002	0.06	0.10	1.2	1	0.3	9.8	0.13	<0.05	0.43	0.048	0.07	
403613	300	0.6	6.7	<0.002	0.07	0.09	1.6	1	0.3	5.6	0.15	<0.05	0.52	0.056	0.08	
403614	340	1.3	7.1	<0.002	0.49	0.28	2.3	1	0.2	16.3	0.19	0.13	0.59	0.076	0.10	
403615	490	1.0	7.1	<0.002	0.29	0.10	2.6	1	0.3	7.7	0.18	0.07	0.78	0.071	0.08	
403616	380	1.3	3.6	<0.002	0.08	0.11	1.7	<1	<0.2	6.6	0.13	<0.05	0.42	0.050	0.03	
403617	410	0.8	2.0	<0.002	0.13	0.11	2.0	1	0.2	7.8	0.18	0.07	0.64	0.074	0.02	
403618	460	0.8	0.6	<0.002	0.11	0.16	2.6	<1	<0.2	11.9	0.20	0.05	0.64	0.074	<0.02	
403619	1160	15.0	41.4	<0.002	0.02	1.06	19.6	1	1.7	352	1.25	0.05	5.45	0.941	0.22	
403620	400	1.3	0.2	<0.002	0.07	0.13	2.2	<1	<0.2	68.4	0.15	<0.05	0.50	0.063	<0.02	
403621	190	2.1	0.2	<0.002	0.06	0.14	3.7	1	<0.2	144.5	0.12	<0.05	0.40	0.048	<0.02	
403622	330	2.0	0.3	0.002	0.23	0.11	7.2	1	<0.2	154.5	0.17	0.05	0.52	0.067	<0.02	
403623	370	4.8	4.0	0.002	0.18	0.33	2.9	1	<0.2	46.8	0.21	0.06	0.89	0.082	0.03	
403624	370	2.2	0.4	<0.002	0.30	0.20	2.5	1	<0.2	26.4	0.25	<0.05	1.38	0.089	<0.02	
403625	550	1.4	0.5	<0.002	0.25	0.14	2.3	1	<0.2	26.1	0.28	0.08	0.82	0.103	<0.02	
403626	80	0.9	0.2	<0.002	<0.01	0.08	0.3	<1	<0.2	79.2	<0.05	<0.05	0.05	0.006	<0.02	
403627	670	0.9	0.7	<0.002	0.22	0.26	3.3	<1	0.2	25.0	0.35	0.07	0.97	0.115	<0.02	
403628	370	1.8	4.7	<0.002	0.23	0.67	0.6	<1	0.2	39.1	<0.05	<0.05	0.31	0.014	<0.02	
403629	190	1.0	6.1	<0.002	0.06	1.06	1.8	<1	0.3	29.6	0.12	<0.05	1.39	0.048	<0.02	
403630	400	1.1	15.2	<0.002	0.60	0.12	1.9	1	0.3	47.4	0.22	0.05	0.70	0.090	0.60	



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18184030**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
403611		0.3	54	0.2	4.5	18	24.0
403612		0.2	35	0.1	3.3	12	11.7
403613		0.2	48	0.1	2.9	14	13.3
403614		0.7	44	0.2	3.9	14	16.8
403615		0.7	55	0.1	4.3	16	16.9
403616		0.3	48	0.1	3.3	12	12.9
403617		0.4	58	0.2	3.5	13	17.7
403618		0.4	68	0.2	4.0	15	18.8
403619		1.2	148	2.2	20.3	131	151.5
403620		0.3	44	0.4	4.1	13	14.9
403621		0.2	40	0.2	4.4	14	11.7
403622		0.3	54	0.3	4.9	26	15.2
403623		0.6	80	0.2	4.2	16	21.3
403624		0.7	69	0.2	4.4	13	23.1
403625		0.6	55	0.2	3.9	9	24.1
403626		0.1	1	0.1	2.2	3	1.5
403627		0.9	89	0.3	5.2	11	29.0
403628		0.5	9	0.1	3.5	11	4.4
403629		1.1	18	0.1	3.4	11	13.8
403630		0.5	48	0.3	4.4	49	22.9



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date:  
**16-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18184030**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
16-AOUT-2018  
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## CERTIFICAT VO18184034

Projet: Kan

Bon de commande #: KANDH18-050

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18184034**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
456981		4.68	<0.001	0.01	10.35	<0.2	650	2.48	0.03	0.31	0.02	67.0	12.3	92	3.30	46.3
456982		4.62	<0.001	<0.01	8.79	4.4	610	2.20	0.05	0.39	0.04	69.0	11.9	76	2.94	7.1
456983		4.59	<0.001	0.01	7.26	1.2	480	1.60	0.01	1.32	0.06	57.3	13.7	75	6.30	3.4
456984		4.40	<0.001	0.02	7.81	1.1	1000	2.09	0.03	0.67	0.04	65.8	10.0	57	7.86	13.0
456985		4.47	<0.001	0.02	8.97	1.7	1290	2.47	0.04	1.32	0.07	70.5	10.7	71	7.03	11.7
456986		3.57	<0.001	0.06	7.28	4.8	570	1.34	0.05	1.63	0.07	48.7	24.7	84	5.11	46.8
456987		3.31	0.001	0.11	6.57	<0.2	90	0.58	0.01	5.52	0.18	11.20	44.3	144	5.38	124.0
456988		4.75	<0.001	0.06	6.45	<0.2	80	0.50	0.01	5.94	0.13	11.75	44.3	159	4.96	99.9
456989		0.09	7.58	1.31	6.01	35.2	310	0.95	0.53	2.93	0.08	30.8	42.0	302	0.69	111.5
456990		4.54	<0.001	0.01	8.37	0.2	670	1.83	<0.01	1.10	0.02	83.4	16.6	78	0.94	25.5
456991		4.44	<0.001	0.01	8.79	1.7	720	2.16	<0.01	0.49	<0.02	91.3	12.0	67	0.91	14.2
456992		4.63	<0.001	<0.01	5.75	0.4	60	0.65	<0.01	3.40	0.05	45.3	19.6	2	2.27	20.0
456993		4.82	<0.001	<0.01	5.50	<0.2	250	0.70	0.01	5.16	0.06	27.9	32.1	1	10.25	12.7
456994		4.86	<0.001	0.01	5.67	<0.2	340	0.53	<0.01	6.79	0.07	16.65	53.6	2	15.90	14.0
456995		4.90	<0.001	0.01	5.58	0.3	200	0.42	0.01	7.94	0.10	13.15	57.7	<1	9.87	15.5
456996		0.29	<0.001	<0.01	0.07	<0.2	20	<0.05	0.01	35.3	<0.02	1.01	0.8	<1	0.05	1.2
456997		5.06	<0.001	0.01	6.35	0.8	80	0.40	0.01	6.88	0.09	11.40	65.7	1	3.97	24.0
456998		5.10	<0.001	0.03	6.19	0.3	60	0.37	0.01	7.45	0.13	9.33	76.9	<1	3.33	115.0
456999		3.79	<0.001	0.06	8.65	90.1	640	1.70	0.02	3.78	0.06	10.50	58.9	178	1.07	75.6
457000		4.54	0.002	0.10	6.58	39.2	150	0.29	0.01	6.71	0.09	8.17	43.6	119	0.20	129.5



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18184034**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
456981		6.03	28.6	0.18	2.9	<0.005	0.057	4.99	33.8	33.6	1.64	715	0.66	0.11	9.9	39.4
456982		4.71	23.2	0.17	2.3	<0.005	0.025	4.16	36.2	34.2	1.49	679	0.87	0.25	8.3	36.6
456983		5.57	17.65	0.15	2.8	<0.005	0.013	3.13	29.1	40.8	2.13	1020	0.59	1.01	5.9	30.8
456984		3.20	18.50	0.16	4.5	<0.005	0.016	4.17	34.5	40.1	1.70	565	1.74	1.29	8.4	36.5
456985		4.12	22.2	0.18	5.4	<0.005	0.036	4.75	34.9	45.1	1.71	1180	4.59	1.43	9.7	41.5
456986		5.12	18.90	0.15	3.8	0.009	0.033	2.43	24.5	39.9	2.24	730	3.97	2.03	6.6	63.9
456987		9.24	16.70	0.10	0.9	0.023	0.081	1.13	4.2	38.1	4.11	1430	0.27	1.43	3.9	77.0
456988		9.02	16.80	0.09	0.9	0.014	0.082	1.05	4.4	38.4	4.72	1620	0.23	1.11	3.4	76.1
456989		5.49	15.25	0.09	2.4	0.199	0.045	1.05	15.1	14.8	3.96	725	6.25	1.18	16.8	246
456990		4.33	21.2	0.16	4.1	0.007	0.025	2.47	45.0	22.2	1.54	619	0.33	2.32	9.6	42.9
456991		4.03	21.8	0.16	4.6	<0.005	0.021	2.74	47.5	22.1	1.12	448	0.37	2.44	10.6	31.9
456992		10.75	21.5	0.14	4.1	0.008	0.148	0.30	19.0	18.4	1.26	1710	0.83	1.49	12.6	1.5
456993		12.50	20.9	0.13	2.6	<0.005	0.152	1.40	10.7	27.0	1.65	1940	0.53	0.76	9.8	0.5
456994		13.65	19.25	0.13	1.4	<0.005	0.120	2.31	6.6	32.9	2.10	2280	0.44	0.28	5.5	0.3
456995		13.00	18.55	0.10	1.2	<0.005	0.095	1.50	5.1	23.6	2.34	2010	0.51	0.52	4.6	0.2
456996		0.17	0.25	<0.05	<0.1	<0.005	<0.005	0.01	1.2	1.1	1.45	100	<0.05	0.03	0.1	<0.2
456997		14.05	20.2	0.09	1.2	0.006	0.092	0.71	4.4	14.5	3.14	1840	0.37	0.99	3.9	0.6
456998		14.50	20.1	0.09	1.1	0.035	0.090	0.60	3.6	14.3	3.62	1760	0.23	0.77	3.1	6.0
456999		10.20	20.4	0.10	1.6	0.008	0.087	3.10	4.0	29.0	3.55	1630	0.31	0.15	4.3	111.0
457000		8.84	15.30	0.06	1.0	0.006	0.066	0.55	2.9	21.3	3.89	1480	0.20	1.65	2.9	82.2



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18184034**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
456981		270	5.3	141.0	0.002	0.18	0.16	12.7	<1	2.0	25.3	0.71	<0.05	14.65	0.358	0.60
456982		300	5.8	118.0	<0.002	0.04	0.16	10.9	<1	1.2	22.6	0.58	<0.05	13.15	0.297	0.46
456983		2340	6.1	110.5	0.002	<0.01	0.15	11.3	<1	0.7	46.0	0.42	<0.05	11.15	0.268	0.69
456984		290	7.4	135.5	<0.002	0.01	0.19	9.4	<1	0.6	31.9	0.61	<0.05	13.15	0.307	0.83
456985		270	7.8	121.0	0.006	0.04	0.22	12.1	<1	0.9	46.5	0.75	<0.05	15.15	0.364	0.79
456986		290	6.5	66.5	0.007	0.02	0.17	16.6	<1	0.6	58.7	0.48	<0.05	9.08	0.408	0.49
456987		480	6.3	53.8	<0.002	0.03	0.11	39.7	<1	0.9	126.0	0.24	<0.05	0.35	0.793	0.51
456988		410	6.5	50.7	<0.002	0.02	0.11	41.0	<1	0.9	131.0	0.22	<0.05	0.39	0.701	0.51
456989		1080	9.7	37.7	<0.002	0.08	0.81	20.1	<1	1.0	277	0.94	0.25	2.28	0.672	0.21
456990		390	3.6	64.8	<0.002	0.01	0.18	14.5	<1	0.7	63.1	0.67	<0.05	13.05	0.398	0.21
456991		400	3.8	69.9	<0.002	0.01	0.19	11.8	<1	0.8	43.5	0.76	<0.05	14.65	0.370	0.22
456992		1370	3.6	13.5	0.002	0.12	0.23	28.7	<1	1.5	106.5	0.79	<0.05	3.12	0.876	0.14
456993		920	3.4	63.2	<0.002	0.06	0.24	44.5	<1	1.3	109.5	0.63	<0.05	1.55	1.570	0.60
456994		590	4.5	96.7	0.005	0.15	0.34	51.1	<1	0.9	129.0	0.35	<0.05	0.86	1.735	0.93
456995		500	4.4	60.3	0.011	0.17	0.57	49.4	<1	0.7	112.5	0.29	<0.05	0.62	1.520	0.57
456996		60	0.5	0.5	<0.002	<0.01	<0.05	0.4	<1	<0.2	84.0	<0.05	<0.05	0.06	0.010	0.02
456997		440	4.3	25.3	0.015	0.23	0.81	53.5	<1	0.8	107.0	0.24	<0.05	0.50	1.390	0.25
456998		330	4.9	21.8	0.004	0.32	1.08	57.7	1	0.7	113.0	0.20	<0.05	0.39	1.275	0.25
456999		480	2.0	47.6	0.004	0.02	0.23	52.1	<1	1.3	65.6	0.25	<0.05	0.30	0.871	0.20
457000		360	2.8	6.6	0.003	0.05	0.15	39.4	<1	0.4	99.4	0.17	<0.05	0.21	0.665	0.03



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
16-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18184034**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
456981		2.5	87	1.7	5.4	77	94.5
456982		2.3	75	1.6	6.2	58	80.1
456983		4.2	93	0.7	11.2	48	97.7
456984		4.0	108	0.7	8.3	53	158.5
456985		4.3	145	1.2	8.6	59	187.0
456986		2.9	170	0.6	9.2	72	137.0
456987		0.1	361	0.2	10.1	96	30.3
456988		0.1	341	0.1	15.1	94	36.0
456989		0.6	142	9.0	14.8	83	96.9
456990		2.3	97	0.7	17.9	45	149.0
456991		2.6	70	0.7	19.0	48	169.0
456992		0.8	26	0.3	61.5	111	152.0
456993		0.4	78	0.4	48.1	136	109.0
456994		0.2	465	0.3	31.8	139	53.9
456995		0.2	637	0.3	27.0	135	43.8
456996		0.1	2	<0.1	2.1	3	1.3
456997		0.1	989	0.3	24.5	129	37.9
456998		0.1	1200	0.3	21.2	120	31.9
456999		0.1	455	1.5	6.0	95	60.0
457000		<0.1	340	0.5	7.3	85	32.6





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18184034**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
 CRU-31 CRU-QC LOG-21 LOG-23  
 PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
 Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
**16-AOUT-2018**  
Compte: MINVIR

## CERTIFICAT VO18184041

Projet: Kan  
Bon de commande #: KANDH18-PRIORITY-019  
Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18184041**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403571		2.57	<0.001	0.01	0.31	0.3	300	0.38	0.01	7.41	0.02	12.30	5.0	10	0.34	3.3
403572		2.44	<0.001	<0.01	0.18	1.3	10	0.23	0.01	3.54	<0.02	5.73	3.2	11	0.33	2.3
403573		2.43	<0.001	0.01	0.32	0.6	<10	0.40	0.01	7.19	0.02	8.39	4.6	12	0.16	3.1
403574		2.47	<0.001	0.01	0.28	<0.2	10	0.29	0.01	8.43	0.05	6.39	3.5	9	0.41	2.6
403575		2.58	<0.001	<0.01	0.30	0.7	10	0.32	0.01	7.88	0.05	6.65	3.8	11	0.22	2.5
403576		2.50	<0.001	0.01	0.36	<0.2	10	0.27	0.01	10.55	0.10	6.75	3.4	12	0.35	2.5
403577		2.47	0.001	0.05	0.32	0.3	20	0.30	0.01	10.65	0.11	6.10	3.3	11	0.45	3.1
403578		2.48	<0.001	0.01	0.22	1.1	10	0.32	0.01	11.35	0.11	8.71	3.5	7	0.39	2.5
403579		0.07	2.61	0.39	6.82	11.1	320	0.98	0.15	4.81	0.07	40.6	48.9	308	0.66	75.0
403580		2.45	<0.001	0.02	0.23	0.4	20	0.36	<0.01	11.35	0.11	5.30	2.9	8	0.52	1.7
403581		2.52	<0.001	0.01	0.34	<0.2	30	0.34	<0.01	12.95	0.14	5.17	3.0	8	0.77	0.6
403582		2.62	<0.001	0.01	0.20	0.5	10	0.30	0.01	11.90	0.07	5.10	3.2	7	0.47	1.4
403583		2.55	<0.001	<0.01	0.37	0.5	10	0.42	0.01	11.90	0.17	8.64	3.8	11	0.22	1.6
403584		2.46	0.018	0.01	0.48	1.7	10	0.38	0.01	14.60	0.14	8.14	4.6	14	0.18	2.6
403585		2.48	<0.001	<0.01	0.48	0.4	10	0.41	0.01	13.85	0.11	8.20	4.0	12	0.20	2.0
403586		0.24	<0.001	<0.01	0.05	<0.2	10	<0.05	<0.01	31.2	<0.02	0.77	0.5	2	<0.05	0.5
403587		2.56	<0.001	0.02	0.38	0.4	10	0.45	0.03	9.91	0.03	12.10	4.4	12	0.18	8.6
403588		2.47	<0.001	0.01	0.25	0.5	10	0.35	0.02	9.19	0.02	6.53	3.8	10	0.11	5.0
403589		2.90	<0.001	0.01	0.33	0.2	10	0.47	0.02	10.70	0.02	9.91	4.9	13	0.46	5.1
403590		2.14	<0.001	0.01	0.22	0.5	20	0.88	0.01	11.20	0.02	7.48	3.7	8	0.17	2.5



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18184041**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
403571		16.65	1.18	<0.05	0.3	<0.005	0.008	0.05	6.3	1.9	4.65	11150	0.35	<0.01	2.6	6.4
403572		13.05	0.63	<0.05	0.1	<0.005	0.005	0.04	3.0	1.1	2.87	8310	0.44	<0.01	1.4	4.7
403573		14.05	1.21	<0.05	0.2	0.005	0.007	0.02	4.4	1.8	4.31	10500	0.40	<0.01	2.3	5.6
403574		14.00	0.84	<0.05	0.2	<0.005	0.006	0.04	3.5	1.6	4.80	8790	0.35	<0.01	1.8	3.7
403575		13.05	1.02	<0.05	0.2	<0.005	0.007	0.02	3.6	1.5	4.56	8860	0.29	<0.01	1.8	4.5
403576		12.40	1.25	<0.05	0.2	<0.005	0.009	0.04	3.7	2.1	5.35	9170	0.35	<0.01	1.8	4.9
403577		11.15	1.28	<0.05	0.2	<0.005	0.006	0.05	3.3	2.3	5.04	8070	0.25	0.01	1.7	4.8
403578		12.35	0.90	0.05	0.2	<0.005	0.006	0.03	4.8	1.9	5.51	8030	0.27	0.01	2.1	4.8
403579		7.41	17.50	0.06	3.1	0.045	0.056	0.97	20.0	7.5	5.50	1060	2.78	1.97	25.8	352
403580		11.35	0.83	<0.05	0.2	0.007	<0.005	0.06	2.9	2.2	5.51	7320	0.18	0.01	1.1	3.7
403581		11.80	1.11	<0.05	0.2	0.005	0.008	0.09	2.6	2.9	6.04	7640	0.18	0.01	1.5	3.2
403582		11.30	0.76	<0.05	0.2	<0.005	0.006	0.04	2.7	1.7	5.58	7390	0.19	0.01	1.3	3.6
403583		10.40	1.60	<0.05	0.3	0.006	0.007	0.04	4.6	2.8	5.53	8670	0.26	0.01	1.8	6.0
403584		10.40	2.03	<0.05	0.3	0.006	0.007	0.03	4.3	3.4	6.71	8800	0.31	0.01	1.9	7.6
403585		9.62	1.88	<0.05	0.3	<0.005	0.006	0.03	4.2	3.2	6.29	7890	0.25	0.01	2.3	6.0
403586		0.23	0.19	<0.05	<0.1	<0.005	<0.005	0.01	0.9	0.8	1.46	160	<0.05	0.03	0.1	0.6
403587		11.95	1.50	0.05	0.4	<0.005	0.008	0.04	6.3	2.3	5.20	9440	1.00	<0.01	3.4	8.5
403588		12.15	1.02	<0.05	0.2	0.008	0.006	0.02	3.5	2.0	4.74	9710	0.51	0.01	2.1	5.6
403589		13.55	1.27	<0.05	0.2	<0.005	0.007	0.06	5.4	2.4	5.65	9800	0.51	<0.01	2.5	6.6
403590		11.35	0.87	<0.05	0.2	<0.005	<0.005	0.08	4.2	1.7	5.44	8220	0.38	0.01	1.6	4.1



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**16-AOUT-2018**  
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**CERTIFICAT D'ANALYSE VO18184041**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403571		600	1.9	2.1	<0.002	0.08	0.08	0.9	<1	<0.2	46.1	0.16	<0.05	0.43	0.048	0.04
403572		300	0.8	1.9	<0.002	0.04	0.05	0.5	<1	<0.2	20.5	0.08	<0.05	0.24	0.027	0.04
403573		350	1.4	0.9	<0.002	0.06	0.06	0.8	1	<0.2	53.1	0.12	<0.05	0.35	0.043	<0.02
403574		300	1.7	1.5	<0.002	0.07	0.06	0.6	<1	<0.2	79.2	0.12	<0.05	0.37	0.040	0.03
403575		310	1.3	0.8	<0.002	0.07	0.06	0.8	1	<0.2	73.2	0.11	<0.05	0.34	0.038	0.02
403576		370	2.0	1.3	<0.002	0.07	0.06	0.9	<1	<0.2	134.0	0.12	<0.05	0.37	0.044	0.03
403577		290	2.5	1.8	<0.002	0.04	0.07	0.8	1	<0.2	153.5	0.13	<0.05	0.35	0.040	0.04
403578		330	4.1	1.3	<0.002	0.06	0.08	0.6	1	<0.2	152.5	0.14	<0.05	0.38	0.036	0.03
403579		1890	4.7	27.6	<0.002	0.04	0.32	19.5	<1	1.2	479	1.55	0.08	2.60	1.070	0.06
403580		220	2.8	2.1	<0.002	0.03	0.08	0.5	1	<0.2	149.0	0.08	<0.05	0.24	0.027	0.05
403581		240	3.0	3.0	<0.002	<0.01	0.08	0.7	1	<0.2	193.0	0.11	<0.05	0.23	0.035	0.05
403582		170	2.1	1.5	<0.002	0.02	0.07	0.6	1	<0.2	132.0	0.09	<0.05	0.25	0.028	0.03
403583		240	2.9	1.4	<0.002	0.02	0.07	1.1	1	<0.2	197.0	0.13	<0.05	0.57	0.045	0.02
403584		300	4.7	1.4	<0.002	0.05	0.08	1.3	1	<0.2	213	0.15	<0.05	0.50	0.055	0.02
403585		300	4.1	1.3	<0.002	0.04	0.07	1.2	<1	<0.2	165.0	0.20	<0.05	0.57	0.058	0.03
403586		50	<0.5	0.2	<0.002	<0.01	<0.05	0.1	1	<0.2	72.7	<0.05	<0.05	0.06	0.005	<0.02
403587		450	5.1	1.8	0.002	0.09	0.17	1.2	<1	<0.2	66.6	0.27	<0.05	0.72	0.052	0.03
403588		260	2.8	0.9	<0.002	0.07	0.19	0.8	<1	<0.2	61.5	0.13	<0.05	0.36	0.039	0.02
403589		420	2.3	3.3	0.002	0.06	0.14	1.0	<1	<0.2	65.6	0.14	0.05	0.40	0.049	0.06
403590		350	2.1	2.5	<0.002	0.03	0.12	0.7	<1	<0.2	67.8	0.10	<0.05	0.30	0.029	0.03



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
 16-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18184041**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
403571		0.3	22	0.2	5.4	12	11.6
403572		0.1	15	0.1	2.9	10	5.9
403573		0.2	23	0.1	4.3	12	10.5
403574		0.2	19	0.2	3.5	12	8.4
403575		0.2	21	0.2	3.8	15	9.1
403576		0.2	23	0.2	4.1	20	9.5
403577		0.2	18	0.3	3.8	17	9.0
403578		0.2	13	0.3	4.9	13	10.6
403579		0.6	149	3.0	19.6	105	128.5
403580		0.1	13	0.3	3.4	15	6.3
403581		0.1	19	0.3	4.0	14	8.0
403582		0.1	13	0.2	3.0	9	6.8
403583		0.3	22	0.3	4.5	14	11.0
403584		0.4	29	0.3	4.5	17	11.7
403585		0.4	30	0.2	4.2	14	13.0
403586		0.2	1	<0.1	1.8	3	0.9
403587		0.3	28	0.2	5.1	14	15.8
403588		0.2	20	0.2	4.1	8	9.8
403589		0.3	24	0.3	5.5	8	11.9
403590		0.2	17	0.3	4.6	7	7.4



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
**16-AOUT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18184041**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
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**16-AOUT-2018**  
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## CERTIFICAT VO18184045

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-018

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18184045**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403551		2.28	0.531	0.03	0.09	0.8	10	0.28	0.01	8.38	0.08	5.48	2.3	5	0.22	4.5
403552		2.49	0.091	0.01	0.21	0.4	10	0.33	0.02	7.95	0.05	10.40	3.3	7	0.23	3.9
403553		2.21	0.004	0.03	0.33	0.4	20	0.41	0.03	6.47	0.07	8.94	4.7	8	0.26	4.4
403554		2.23	<0.001	0.02	0.11	0.4	10	0.36	0.01	7.16	0.03	7.50	3.0	7	0.20	1.7
403555		2.28	<0.001	0.01	0.14	0.3	10	0.45	0.02	7.53	<0.02	5.73	3.2	8	0.33	2.5
403556		2.24	<0.001	0.03	0.24	0.4	10	0.51	0.01	6.79	0.02	7.42	4.1	17	0.52	1.9
403557		2.06	<0.001	0.02	0.14	0.4	10	0.57	0.01	10.85	<0.02	6.37	2.4	6	0.44	1.4
403558		2.13	<0.001	0.07	0.19	0.8	10	0.45	0.02	9.77	0.02	6.61	3.0	6	0.34	2.1
403559		0.07	0.667	0.22	7.74	20.4	350	1.61	0.15	4.70	0.21	55.6	45.2	186	2.15	58.4
403560		2.64	<0.001	0.02	0.15	0.6	10	0.35	0.01	11.60	<0.02	7.40	3.6	6	0.39	3.1
403561		2.52	0.003	0.02	0.16	2.8	10	0.41	0.01	11.65	0.03	6.62	3.4	5	0.51	2.1
403562		2.50	0.001	0.01	0.21	<0.2	10	0.39	0.01	10.05	0.05	6.36	2.5	6	0.28	2.2
403563		2.55	<0.001	0.01	0.15	2.0	10	0.37	0.01	7.85	0.02	5.81	2.8	7	0.35	1.6
403564		2.46	<0.001	0.02	0.29	46.9	10	0.59	0.03	8.80	0.03	8.76	3.5	8	0.47	3.3
403565		2.46	0.001	0.02	0.34	0.7	10	0.42	0.02	9.29	0.05	10.40	3.8	11	0.34	4.2
403566		0.24	<0.001	<0.01	0.06	0.4	20	0.06	0.01	31.2	<0.02	0.90	0.5	1	<0.05	0.8
403567		2.40	0.046	0.03	0.33	1.2	10	0.31	0.02	6.00	0.09	13.25	5.1	15	0.17	9.0
403568		2.39	0.003	0.03	0.14	1.7	10	0.29	<0.01	6.01	0.02	4.69	3.1	33	0.14	2.7
403569		2.37	0.002	0.01	0.25	3.0	10	0.41	0.01	7.98	0.02	7.17	4.3	13	0.19	5.1
403570		2.48	<0.001	0.03	0.55	0.8	10	0.67	0.02	9.28	0.06	10.50	4.6	15	0.38	4.2



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Page: 2 – B  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18184045**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
403551		14.45	0.36	<0.05	<0.1	0.011	<0.005	0.02	3.5	1.1	4.58	5900	0.21	0.01	0.3	2.0
403552		15.30	0.84	0.06	0.1	<0.005	<0.005	0.03	7.0	1.5	4.57	6710	0.45	0.01	1.0	3.9
403553		16.45	1.31	0.05	0.1	<0.005	<0.005	0.06	5.3	2.0	4.38	7060	1.23	0.01	1.5	5.8
403554		13.50	0.50	<0.05	0.1	0.005	<0.005	0.03	4.5	1.1	4.33	5780	0.45	0.01	1.1	3.5
403555		13.85	0.50	<0.05	0.1	<0.005	<0.005	0.04	3.0	1.3	4.66	5990	0.42	<0.01	1.6	28.8
403556		15.35	0.96	<0.05	0.1	<0.005	<0.005	0.06	4.0	1.9	4.67	6670	0.36	<0.01	2.1	5.4
403557		12.75	0.59	<0.05	0.1	<0.005	<0.005	0.05	3.9	1.8	5.78	6060	0.35	<0.01	1.0	2.6
403558		14.90	0.80	<0.05	0.1	<0.005	<0.005	0.04	4.0	1.7	5.55	6840	0.52	<0.01	1.1	8.0
403559		7.87	21.3	0.09	3.9	0.018	0.076	0.94	24.7	14.8	3.12	996	2.68	1.84	21.9	152.0
403560		13.90	0.61	<0.05	0.1	<0.005	<0.005	0.04	4.8	1.6	5.98	6880	0.42	0.01	1.0	3.9
403561		12.75	0.63	<0.05	0.1	0.006	<0.005	0.05	3.9	1.5	6.07	6480	0.44	<0.01	1.1	3.5
403562		14.60	0.88	0.05	0.1	<0.005	<0.005	0.02	4.0	1.2	5.59	7220	0.45	<0.01	1.0	4.7
403563		14.60	0.56	<0.05	0.1	<0.005	<0.005	0.03	3.6	1.0	4.90	6150	0.73	<0.01	1.0	3.0
403564		13.50	1.16	<0.05	0.2	0.005	0.005	0.05	5.1	1.7	4.82	6850	0.78	<0.01	1.5	5.7
403565		16.65	1.26	0.06	0.2	0.005	0.007	0.03	5.8	2.0	5.41	8790	0.97	<0.01	3.1	7.5
403566		0.25	0.20	0.08	<0.1	<0.005	<0.005	0.01	1.1	1.1	1.63	147	<0.05	0.03	0.1	0.3
403567		14.00	1.29	<0.05	0.1	<0.005	<0.005	0.02	7.2	2.1	3.67	6620	0.61	<0.01	2.1	5.0
403568		11.90	0.57	<0.05	0.1	<0.005	<0.005	0.01	2.4	1.2	3.51	6030	0.36	<0.01	1.3	4.0
403569		13.25	0.98	<0.05	0.2	<0.005	<0.005	0.02	3.8	1.8	4.57	7540	0.31	<0.01	1.7	5.2
403570		14.90	2.27	<0.05	0.3	<0.005	0.008	0.05	5.5	3.4	5.48	9840	0.46	<0.01	3.1	8.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18184045**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403551		210	2.5	0.7	<0.002	0.20	0.12	0.2	<1	<0.2	85.7	<0.05	<0.05	0.06	<0.005	<0.02
403552		420	2.4	1.4	<0.002	0.15	0.10	0.5	<1	<0.2	82.4	0.06	<0.05	0.25	0.012	0.07
403553		280	2.6	2.8	0.003	0.24	0.10	0.8	<1	<0.2	72.0	0.07	0.07	0.36	0.018	0.11
403554		580	2.5	1.6	<0.002	0.05	0.12	0.3	<1	<0.2	45.9	<0.05	<0.05	0.21	0.008	0.05
403555		320	1.4	2.5	<0.002	0.04	0.11	0.4	<1	<0.2	38.0	0.06	<0.05	0.28	0.014	0.07
403556		320	1.4	3.5	<0.002	0.06	0.10	0.6	<1	<0.2	34.1	0.08	<0.05	0.37	0.024	0.11
403557		310	1.9	3.0	<0.002	0.04	0.10	0.4	1	<0.2	52.1	<0.05	<0.05	0.19	0.010	0.06
403558		240	2.7	2.2	<0.002	0.08	0.10	0.5	1	<0.2	47.5	0.05	<0.05	0.24	0.011	0.06
403559		1210	15.7	43.9	<0.002	0.02	1.18	20.9	<1	1.9	368	1.33	0.05	5.76	0.973	0.22
403560		300	1.7	2.5	<0.002	0.17	0.08	0.3	<1	<0.2	59.0	0.05	<0.05	0.19	0.011	0.06
403561		260	2.0	3.1	<0.002	0.10	0.11	0.4	<1	<0.2	75.9	<0.05	<0.05	0.23	0.010	0.07
403562		280	2.0	1.3	<0.002	0.10	0.10	0.5	<1	<0.2	94.1	0.05	<0.05	0.24	0.012	0.03
403563		250	1.8	1.7	<0.002	0.08	0.08	0.4	<1	<0.2	58.2	0.05	<0.05	0.19	0.010	0.04
403564		290	2.6	2.5	<0.002	0.18	0.13	0.8	<1	<0.2	87.5	0.09	0.06	0.37	0.018	0.06
403565		330	2.5	1.6	<0.002	0.16	0.14	0.8	<1	<0.2	92.0	0.11	<0.05	0.52	0.022	0.05
403566		70	0.5	0.2	<0.002	<0.01	0.08	0.1	<1	0.9	73.0	<0.05	<0.05	0.07	0.005	<0.02
403567		420	2.0	0.8	<0.002	0.30	0.11	0.7	<1	<0.2	85.3	0.08	<0.05	0.56	0.022	<0.02
403568		190	1.3	0.7	0.002	0.07	0.09	0.4	<1	<0.2	46.2	0.06	<0.05	0.24	0.015	0.02
403569		280	1.9	1.3	<0.002	0.14	0.10	0.7	<1	0.2	69.5	0.08	<0.05	0.32	0.027	0.02
403570		380	2.3	2.9	<0.002	0.12	0.11	1.4	<1	<0.2	90.5	0.17	<0.05	0.67	0.051	0.06



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18184045**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
403551		0.1	8	0.1	4.3	10	1.6
403552		0.3	17	0.2	6.3	8	4.6
403553		0.4	22	0.2	5.2	18	6.4
403554		0.1	10	0.2	4.6	8	3.3
403555		0.1	11	0.2	3.7	6	4.1
403556		0.2	18	0.3	4.2	8	6.1
403557		0.2	14	0.3	5.0	5	4.4
403558		0.3	18	0.9	5.1	7	5.3
403559		1.3	156	2.4	22.0	138	159.0
403560		0.2	14	0.2	5.6	5	4.0
403561		0.2	13	0.1	5.1	5	4.2
403562		0.3	17	0.2	5.2	6	5.5
403563		0.2	14	0.1	4.6	5	4.5
403564		0.3	20	0.1	5.5	11	7.9
403565		0.4	21	0.2	6.1	11	8.5
403566		0.3	1	0.2	2.1	2	1.3
403567		0.3	17	0.1	4.7	13	6.1
403568		0.1	10	0.2	2.9	5	4.4
403569		0.3	16	0.2	4.3	7	7.6
403570		0.6	28	0.3	5.2	13	15.3



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**CERTIFICAT D'ANALYSE VO18184045**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada								
	<table border="0" style="width: 100%;"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-21</td> <td>LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
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Page: 1  
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## CERTIFICAT VO18184053

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-017

Ce rapport s'applique aux 6 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18184053**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403545		1.55	0.089	0.01	0.26	0.5	20	0.26	0.01	5.18	0.09	8.31	2.6	9	0.32	5.0
403546		0.26	<0.001	<0.01	0.12	<0.2	20	0.09	0.01	34.1	<0.02	0.96	0.9	4	<0.05	1.5
403547		2.21	0.421	0.01	0.40	0.3	50	0.35	0.02	9.98	0.22	8.56	3.2	7	1.04	7.1
403548		2.29	0.176	0.01	0.36	1.9	30	0.26	0.01	7.79	0.17	9.15	3.1	10	0.75	6.8
403549		2.33	0.117	0.06	0.16	0.3	20	0.33	0.01	9.92	0.08	6.87	3.3	4	0.71	4.3
403550		2.49	0.002	0.01	0.16	0.3	10	0.30	0.02	9.48	0.11	6.75	3.1	5	0.63	4.1



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18184053**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
403545		14.70	1.13	0.07	0.1	<0.005	0.006	0.04	5.1	1.5	3.18	5420	0.35	0.01	0.8	2.8
403546		0.22	0.45	<0.05	<0.1	<0.005	<0.005	0.01	1.2	1.1	1.52	120	0.05	0.06	0.2	0.5
403547		14.10	1.43	0.08	0.2	<0.005	0.008	0.09	5.2	3.0	5.01	5920	0.52	0.01	0.8	2.8
403548		13.55	1.39	0.07	0.1	0.006	0.006	0.06	5.8	2.4	4.29	5360	0.48	0.01	1.0	2.4
403549		15.40	0.78	0.09	0.1	<0.005	<0.005	0.04	4.3	1.5	5.31	5960	0.46	0.01	0.9	2.4
403550		15.65	0.84	0.07	0.1	<0.005	0.005	0.03	4.3	1.3	5.26	6470	0.38	<0.01	0.7	2.5





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-AOUT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18184053**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P ppm 10	Pb ppm 0.5	Rb ppm 0.1	Re ppm 0.002	S % 0.01	Sb ppm 0.05	Sc ppm 0.1	Se ppm 1	Sn ppm 0.2	Sr ppm 0.2	Ta ppm 0.05	Te ppm 0.05	Th ppm 0.01	Ti % 0.005	Tl ppm 0.02
403545		320	2.1	1.6	<0.002	0.23	0.07	0.4	<1	<0.2	74.0	<0.05	<0.05	0.15	0.010	0.05
403546		60	<0.5	0.3	<0.002	<0.01	0.08	0.4	<1	<0.2	80.0	<0.05	<0.05	0.07	0.006	<0.02
403547		190	3.0	4.0	<0.002	0.25	0.07	0.9	<1	<0.2	182.5	0.09	<0.05	0.24	0.009	0.11
403548		240	2.4	2.6	<0.002	0.28	0.07	0.6	1	<0.2	131.5	0.08	<0.05	0.19	0.008	0.08
403549		220	3.4	2.1	<0.002	0.16	0.06	0.5	1	<0.2	103.5	0.06	<0.05	0.19	0.010	0.06
403550		220	3.2	1.5	<0.002	0.17	0.06	0.4	<1	<0.2	101.0	0.05	<0.05	0.16	0.009	0.05



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 16-AOUT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18184053**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
403545		0.2	15	0.1	4.6	15	3.3
403546		0.1	2	<0.1	2.2	3	1.5
403547		0.2	22	0.1	6.0	21	7.0
403548		0.2	20	0.2	5.7	18	4.8
403549		0.2	15	0.1	5.0	11	4.9
403550		0.2	13	0.2	5.2	11	3.8



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **16-AOUT-2018**  
Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18184053**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 PUL-31  
PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
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## CERTIFICAT VO18184062

Projet: Kan

Bon de commande #: KANDH18-051

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-JUIL-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HOULE  
LIZ STOCK

PAUL DOBAK  
AUDREY ROUSSEL-LALIER  
CORPORATIF WEBTRIEVE

SIMON HEBERT  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18184062**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457001		5.28	0.003	0.09	5.95	29.9	260	0.56	0.02	6.31	0.09	9.73	40.6	106	0.89	150.0
457002		4.18	<0.001	0.03	4.14	<0.2	190	0.46	0.01	6.58	0.05	9.98	29.0	74	3.82	67.6
457003		3.77	<0.001	0.03	6.64	0.3	140	0.37	0.01	6.32	0.06	8.44	43.6	119	2.87	72.9
457004		4.60	0.001	0.02	6.21	0.4	150	0.38	0.01	6.14	0.07	7.18	41.3	113	2.82	80.9
457005		2.31	<0.001	0.01	6.01	<0.2	40	0.25	0.01	6.83	0.06	5.94	39.1	102	0.78	23.2
457006		3.24	<0.001	0.03	6.15	0.3	30	0.22	0.01	6.23	0.06	5.29	78.7	295	0.28	94.8
457007		4.33	<0.001	0.02	5.91	1.1	30	0.21	0.01	6.04	0.05	5.26	77.8	244	0.26	82.3
457008		4.87	<0.001	0.04	5.53	1.1	40	0.20	0.01	5.78	0.06	4.75	80.1	250	0.29	113.0
457009		0.07	0.674	0.21	7.14	20.9	340	1.42	0.13	4.50	0.20	46.1	43.7	194	1.80	56.0
457010		4.29	<0.001	0.03	6.14	5.6	20	0.21	0.02	6.13	0.07	5.34	80.3	248	0.25	112.5
457011		4.72	0.001	0.04	6.26	11.4	20	0.22	0.02	6.51	0.10	5.17	84.3	265	0.32	126.5
457012		4.95	<0.001	0.03	6.60	9.9	20	0.25	0.01	6.47	0.07	5.29	71.2	263	0.25	119.0
457013		4.60	<0.001	0.05	7.03	0.9	10	0.30	0.01	6.37	0.14	10.20	54.9	203	0.23	215
457014		4.52	<0.001	0.01	7.06	0.3	40	0.37	0.01	6.63	0.03	10.60	49.5	105	2.06	93.5
457015		4.95	<0.001	0.02	7.79	0.9	10	0.31	0.01	7.12	0.07	8.83	41.7	167	0.66	96.4
457016		0.24	<0.001	<0.01	0.08	<0.2	10	<0.05	0.01	33.5	<0.02	0.92	0.9	2	<0.05	2.1
457017		5.11	<0.001	0.03	8.02	2.8	10	0.32	0.01	7.49	0.08	7.65	45.2	243	0.39	127.0
457018		5.19	<0.001	0.04	6.82	0.4	10	0.28	0.01	7.06	0.09	10.10	42.2	82	0.27	98.2
457019		3.63	<0.001	0.04	7.36	7.8	10	0.29	0.01	7.15	0.08	8.22	44.6	246	0.18	104.0
457020		4.79	<0.001	0.09	7.70	4.6	10	0.27	0.03	7.00	0.11	9.24	46.8	198	0.21	144.0



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**16-AOUT-2018**  
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**CERTIFICAT D'ANALYSE VO18184062**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457001		8.90	13.95	0.09	1.3	0.009	0.070	0.83	3.8	29.1	3.84	2240	0.20	0.65	3.3	76.0
457002		10.15	10.30	0.07	0.8	0.022	0.050	0.73	4.1	20.1	3.82	2350	0.18	0.51	3.5	53.1
457003		8.49	15.75	0.08	0.8	0.011	0.065	0.94	3.0	33.8	3.89	1300	0.11	1.70	3.0	88.1
457004		8.49	15.35	0.08	0.7	0.020	0.060	1.01	2.5	34.1	3.98	1380	0.09	1.24	3.0	73.9
457005		8.57	14.70	0.07	1.0	<0.005	0.046	0.24	2.1	35.2	4.32	1540	0.10	0.97	2.9	70.5
457006		8.35	13.85	0.08	0.7	0.018	0.042	0.15	2.0	32.9	7.85	1260	0.16	0.98	1.8	502
457007		8.17	13.05	0.07	0.6	0.018	0.042	0.13	1.9	31.0	7.72	1210	0.17	0.90	1.9	492
457008		8.49	11.85	0.08	0.5	0.016	0.037	0.18	1.7	32.7	8.33	1280	0.13	0.91	1.7	523
457009		7.40	19.00	0.10	3.5	0.021	0.065	0.87	20.4	13.6	2.90	949	2.20	1.74	20.3	149.0
457010		8.47	13.20	0.08	0.5	0.022	0.043	0.10	2.0	30.7	8.07	1270	0.12	0.98	2.0	494
457011		9.27	12.40	0.08	0.4	0.020	0.040	0.10	2.0	32.9	8.82	1400	0.17	0.67	1.7	517
457012		8.16	14.25	0.08	0.5	0.024	0.042	0.09	2.0	27.8	6.91	1230	0.14	1.23	1.7	392
457013		7.96	15.90	0.07	1.1	0.030	0.069	0.04	3.6	21.2	5.56	1220	0.14	1.87	3.5	238
457014		9.33	16.50	0.07	1.1	0.026	0.076	0.25	3.6	18.5	4.66	1340	0.16	1.29	3.9	151.5
457015		7.99	17.10	0.05	1.1	0.015	0.066	0.07	3.1	12.0	3.94	1300	0.21	1.89	3.2	109.5
457016		0.19	0.26	<0.05	<0.1	<0.005	<0.005	0.01	1.1	0.8	1.57	101	<0.05	0.03	0.1	0.8
457017		7.55	16.85	0.06	0.8	0.045	0.058	0.05	2.8	14.6	4.54	1260	0.24	1.99	2.7	146.0
457018		8.70	17.45	0.06	1.2	0.037	0.080	0.04	3.6	10.2	3.85	1340	0.24	1.59	3.9	74.9
457019		7.64	16.60	0.07	0.7	0.023	0.058	0.03	3.0	15.0	4.62	1200	0.18	1.95	2.7	162.5
457020		8.17	17.05	0.06	0.8	0.020	0.065	0.02	3.3	21.7	4.51	1240	1.65	1.91	3.3	151.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18184062**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457001		400	3.3	12.0	<0.002	0.05	0.18	38.6	1	0.5	84.3	0.20	<0.05	0.35	0.595	0.05
457002		330	1.5	20.1	<0.002	0.03	0.26	25.9	1	0.4	83.2	0.19	<0.05	0.67	0.396	0.09
457003		400	2.2	28.9	0.002	0.01	0.17	45.5	1	0.3	99.3	0.18	<0.05	0.23	0.674	0.18
457004		330	3.3	29.6	<0.002	0.03	0.23	43.9	1	0.2	92.0	0.19	<0.05	0.21	0.643	0.20
457005		200	2.3	6.6	<0.002	<0.01	0.20	38.9	<1	0.3	88.7	0.16	<0.05	0.21	0.564	0.05
457006		230	1.3	4.1	<0.002	0.05	0.96	9.0	1	0.4	114.0	0.11	<0.05	0.16	0.359	0.03
457007		230	1.2	3.9	<0.002	0.06	0.83	10.0	1	0.4	103.5	0.12	<0.05	0.15	0.355	0.03
457008		200	1.4	5.6	<0.002	0.05	0.76	9.0	1	0.3	75.5	0.10	<0.05	0.13	0.331	0.03
457009		1160	13.9	29.1	<0.002	0.02	0.97	21.3	<1	1.6	354	1.14	0.05	4.31	0.936	0.17
457010		240	1.5	2.9	<0.002	0.05	0.85	13.0	1	0.4	92.3	0.13	<0.05	0.17	0.378	0.03
457011		200	1.7	3.5	<0.002	0.03	0.79	16.0	1	0.4	79.5	0.11	<0.05	0.15	0.357	0.03
457012		210	1.3	2.4	<0.002	0.02	1.06	15.0	1	0.4	117.0	0.11	<0.05	0.14	0.370	0.02
457013		450	1.5	1.0	0.002	0.07	0.92	27.0	1	0.8	109.5	0.22	<0.05	0.33	0.635	<0.02
457014		490	1.8	16.0	0.002	0.26	0.74	45.6	1	0.9	111.5	0.26	<0.05	0.30	0.946	0.19
457015		370	2.2	4.0	<0.002	0.02	1.34	37.9	<1	0.5	163.0	0.22	<0.05	0.25	0.650	0.06
457016		70	<0.5	0.2	<0.002	<0.01	0.05	0.4	<1	<0.2	79.9	<0.05	<0.05	0.06	0.008	<0.02
457017		320	2.4	1.8	0.002	0.07	1.72	37.4	<1	0.4	169.5	0.17	<0.05	0.23	0.568	0.06
457018		480	3.2	1.3	0.002	0.12	1.26	44.9	1	0.5	138.0	0.24	<0.05	0.30	0.845	0.03
457019		310	2.4	0.6	<0.002	0.03	2.19	40.5	<1	0.5	169.5	0.17	<0.05	0.22	0.577	0.02
457020		410	12.5	0.8	0.004	0.12	1.77	36.2	<1	0.6	141.5	0.20	<0.05	0.28	0.649	0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
16-AOUT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18184062**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
457001	0.1	316	0.6	7.4	77	38.1	
457002	0.3	201	0.2	6.1	37	32.4	
457003	0.1	349	0.1	17.1	61	34.1	
457004	0.1	334	0.1	20.3	69	29.2	
457005	0.1	262	0.1	21.8	76	33.8	
457006	<0.1	187	0.1	12.9	75	25.2	
457007	<0.1	179	0.1	13.0	72	20.1	
457008	<0.1	176	0.1	11.8	77	15.3	
457009	1.0	150	2.0	19.7	131	151.0	
457010	<0.1	190	0.1	13.6	75	18.7	
457011	<0.1	186	0.1	13.1	85	13.5	
457012	<0.1	196	0.1	13.5	72	14.1	
457013	0.1	296	0.1	25.1	70	39.4	
457014	0.1	453	0.2	26.1	79	40.4	
457015	0.1	321	0.2	20.9	76	34.4	
457016	0.1	2	<0.1	2.0	5	1.4	
457017	0.1	279	0.2	18.0	70	26.0	
457018	0.1	404	0.2	25.0	73	36.2	
457019	0.1	286	0.2	18.8	68	21.2	
457020	0.1	304	0.2	21.3	83	24.6	







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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
22-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18189323

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Bon de commande #: KANDH18-PRIORITY-022

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 1-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**22-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189323**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403631		2.42	0.157	0.32	0.62	3.8	30	0.22	0.17	3.73	0.13	16.45	6.8	24	0.72	27.8
403632		2.33	0.283	0.12	1.45	11.5	40	0.36	0.09	2.94	0.09	64.4	10.9	44	0.78	18.0
403633		2.78	0.098	0.12	0.22	8.0	10	0.16	0.10	1.34	0.05	9.77	11.4	7	0.59	28.6
403634		2.57	0.032	0.34	0.18	0.9	10	0.16	0.11	2.48	0.09	10.10	4.4	5	1.08	16.9
403635		1.82	0.005	0.34	0.46	2.4	10	0.12	0.08	2.79	0.23	15.55	7.3	9	0.25	104.5
403636		2.53	0.002	0.12	0.54	4.0	10	0.35	0.04	4.30	0.16	14.40	6.9	19	0.07	34.7
403637		2.51	0.003	0.09	0.78	3.6	<10	0.85	0.04	1.75	0.06	15.05	7.5	21	0.05	13.0
403638		2.40	<0.001	0.08	0.59	3.5	<10	0.95	0.03	1.49	0.57	11.10	6.4	19	<0.05	11.0
403639		0.07	2.54	0.46	6.95	12.6	320	1.18	0.17	4.85	0.08	44.8	53.2	316	0.69	79.3
403640		2.47	0.001	0.06	0.61	14.8	<10	0.64	0.03	2.11	<0.02	12.50	7.4	21	<0.05	10.2
403641		2.38	0.012	0.08	0.59	5.2	<10	0.80	0.04	1.34	<0.02	13.30	7.7	18	<0.05	6.3
403642		2.17	<0.001	0.04	0.44	4.8	<10	0.62	0.04	2.29	<0.02	10.60	7.5	14	<0.05	4.4
403643		2.05	<0.001	0.06	0.33	14.4	10	0.49	0.03	3.53	<0.02	10.65	6.1	14	<0.05	3.4
403644		2.34	<0.001	0.07	0.41	7.3	10	0.99	0.04	2.42	0.02	9.09	6.4	15	<0.05	4.5
403645		2.16	<0.001	0.05	0.30	0.7	<10	0.77	0.02	7.39	0.04	9.11	3.8	15	<0.05	2.8
403646		0.24	<0.001	<0.01	0.06	<0.2	10	0.07	0.02	33.7	<0.02	0.91	0.5	2	<0.05	0.7
403647		2.07	<0.001	0.03	0.06	1.1	<10	0.20	0.02	4.90	0.45	5.15	2.0	14	<0.05	2.9
403648		2.05	<0.001	0.03	0.05	2.2	<10	0.17	0.02	1.96	0.21	2.62	1.3	15	<0.05	1.2
403649		2.01	<0.001	0.04	0.06	1.9	<10	0.26	0.02	4.41	0.02	4.22	1.3	15	<0.05	1.4
403650		2.11	<0.001	0.03	0.09	7.2	<10	0.55	0.02	7.85	0.04	6.10	2.1	11	0.06	1.4



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18189323**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
403631		14.40	2.93	0.05	0.5	0.019	0.067	0.24	8.3	6.6	3.08	5390	0.77	0.01	3.3	13.0
403632		21.3	8.40	0.09	1.1	0.012	0.080	0.40	37.3	15.4	4.04	4370	3.53	0.01	6.1	20.1
403633		27.4	1.16	0.06	0.2	<0.005	0.076	0.05	6.3	2.3	4.18	4120	0.58	<0.01	1.6	6.1
403634		24.1	1.10	0.06	0.1	<0.005	0.105	0.05	6.2	2.5	4.01	4630	0.39	<0.01	1.4	4.3
403635		24.5	2.08	0.06	0.2	<0.005	0.102	0.09	8.3	4.4	4.28	8390	1.20	<0.01	1.9	26.9
403636		20.0	2.57	0.05	0.4	0.007	0.015	0.04	7.9	4.6	3.53	11000	1.24	<0.01	3.0	19.3
403637		24.2	3.81	0.06	0.7	<0.005	0.019	<0.01	8.0	4.0	3.33	15450	0.50	<0.01	6.0	11.1
403638		20.6	2.84	0.05	0.4	<0.005	0.016	<0.01	5.9	2.2	2.83	12750	0.41	<0.01	4.1	8.3
403639		7.60	17.80	0.08	3.4	0.046	0.058	1.01	22.8	9.5	5.59	1050	2.87	2.03	29.9	352
403640		20.2	2.85	0.05	0.5	<0.005	0.014	<0.01	6.6	3.3	2.90	11750	0.54	<0.01	4.8	11.5
403641		21.7	2.68	0.06	0.5	<0.005	0.017	<0.01	7.0	4.6	2.96	11850	0.71	<0.01	4.4	9.2
403642		20.5	1.98	0.05	0.4	<0.005	0.009	<0.01	5.6	4.5	3.03	11150	0.74	<0.01	3.6	7.1
403643		16.15	1.57	0.05	0.3	<0.005	0.007	<0.01	6.5	4.6	2.88	9110	0.73	<0.01	2.6	6.4
403644		16.80	1.75	<0.05	0.3	<0.005	0.009	0.01	4.9	5.3	2.62	8550	0.91	<0.01	2.5	7.7
403645		12.65	1.66	<0.05	0.2	<0.005	0.008	0.01	5.2	5.0	3.93	5900	0.83	<0.01	1.1	5.5
403646		0.17	0.21	0.10	<0.1	<0.005	0.005	0.01	1.1	1.2	1.53	114	<0.05	0.03	0.1	0.3
403647		7.05	0.38	<0.05	<0.1	<0.005	0.005	<0.01	3.3	1.7	2.61	2020	0.51	<0.01	0.5	3.3
403648		5.63	0.36	<0.05	<0.1	<0.005	<0.005	<0.01	1.6	1.0	1.41	1700	0.38	<0.01	0.4	2.2
403649		5.42	0.39	<0.05	0.1	<0.005	<0.005	0.01	2.6	1.5	2.13	1650	0.42	<0.01	0.5	2.4
403650		8.82	0.54	<0.05	0.1	<0.005	<0.005	0.02	3.7	2.3	3.93	2640	0.33	<0.01	0.5	3.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18189323**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403631		440	1.6	12.8	<0.002	0.77	0.08	2.0	2	0.4	120.5	0.21	0.27	0.85	0.054	0.54
403632		680	1.6	20.6	0.010	0.52	0.19	2.8	1	0.4	88.6	0.29	0.08	2.27	0.078	0.77
403633		380	0.9	2.6	<0.002	0.74	0.07	0.5	1	0.6	30.7	0.09	0.14	0.32	0.016	0.10
403634		410	0.8	3.5	<0.002	0.46	0.06	0.4	2	0.3	40.2	0.05	0.13	0.24	0.011	0.21
403635		520	1.5	3.8	<0.002	2.14	0.07	0.8	2	0.2	83.8	0.09	0.19	0.49	0.014	0.15
403636		680	1.7	1.2	<0.002	0.82	0.20	1.7	2	<0.2	53.3	0.17	0.08	0.69	0.051	0.06
403637		550	1.0	0.1	<0.002	0.38	0.18	2.6	2	0.2	29.3	0.37	0.06	1.11	0.122	<0.02
403638		380	0.9	0.1	<0.002	0.42	0.16	1.9	1	<0.2	23.5	0.25	0.05	0.68	0.085	<0.02
403639		1860	4.9	32.1	<0.002	0.03	0.34	22.7	1	1.3	491	1.59	0.10	2.79	1.050	0.07
403640		410	0.9	0.1	<0.002	0.20	0.15	1.9	1	<0.2	23.8	0.31	0.05	0.81	0.085	<0.02
403641		450	1.0	<0.1	<0.002	0.16	0.14	1.6	1	0.2	14.9	0.25	0.07	0.82	0.063	<0.02
403642		360	2.8	0.1	<0.002	0.12	0.11	1.1	1	0.2	20.8	0.19	<0.05	0.59	0.046	<0.02
403643		720	1.4	0.2	<0.002	0.09	0.13	0.9	1	<0.2	23.9	0.12	<0.05	0.38	0.037	<0.02
403644		260	1.1	0.7	<0.002	0.32	0.14	1.2	1	<0.2	18.9	0.11	0.07	0.45	0.041	0.03
403645		250	1.8	0.4	<0.002	0.25	0.14	1.1	1	<0.2	50.2	0.05	0.05	0.33	0.019	<0.02
403646		60	<0.5	0.2	<0.002	<0.01	0.06	0.1	2	<0.2	82.2	<0.05	<0.05	0.07	0.005	<0.02
403647		180	10.0	0.3	<0.002	0.25	0.14	0.2	1	<0.2	24.5	<0.05	<0.05	0.12	<0.005	0.02
403648		170	0.6	0.1	<0.002	0.21	0.11	0.1	<1	<0.2	10.4	<0.05	<0.05	0.07	<0.005	<0.02
403649		140	0.8	0.3	<0.002	0.25	0.10	0.2	1	<0.2	20.0	<0.05	<0.05	0.10	0.005	0.02
403650		120	1.4	1.1	<0.002	0.34	0.12	0.3	1	<0.2	33.6	<0.05	<0.05	0.15	0.005	0.07



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
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Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18189323**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
403631		0.6	40	0.2	6.1	49	20.8
403632		1.9	92	0.4	10.0	82	50.9
403633		0.3	18	0.3	4.9	34	8.3
403634		0.3	16	0.2	4.8	37	4.9
403635		0.4	26	0.2	6.9	90	9.1
403636		0.9	41	0.4	8.3	43	19.3
403637		0.7	70	0.3	8.6	20	31.6
403638		0.5	52	0.3	6.3	111	20.1
403639		0.6	149	3.4	21.4	105	143.5
403640		0.4	50	0.2	6.7	11	21.8
403641		0.5	54	0.4	6.5	12	20.9
403642		0.4	31	0.3	5.6	10	16.5
403643		0.2	28	0.4	6.0	6	12.0
403644		0.9	30	0.3	5.3	10	13.0
403645		0.9	22	0.3	8.6	18	8.5
403646		0.1	1	<0.1	2.3	3	1.2
403647		1.1	6	0.1	5.0	95	2.5
403648		0.8	4	0.3	2.3	63	2.9
403649		0.9	6	0.2	3.7	8	2.2
403650		0.8	9	0.2	7.0	17	2.8



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18189323**

	<b>COMMENTAIRE DE CERTIFICAT</b>								
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
22-AOUT-2018  
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## CERTIFICAT VO18189326

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Bon de commande #: KANDH18-PRIORITY-023

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 1-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**22-AOUT-2018**  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18189326**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403651		2.12	<0.001	0.07	0.39	3.9	10	0.32	0.04	5.16	0.07	10.80	8.6	22	0.07	4.7
403652		1.95	0.001	0.19	0.47	12.0	20	0.26	0.04	2.12	0.11	10.15	9.8	22	0.06	8.6
403653		2.04	0.002	0.25	0.49	8.6	10	0.23	0.03	1.49	4.44	11.00	7.8	27	<0.05	9.2
403654		2.84	<0.001	0.08	0.46	7.5	<10	0.48	0.04	1.51	0.08	12.05	8.9	15	<0.05	7.0
403655		1.91	<0.001	0.04	0.47	3.8	<10	0.24	0.03	1.55	0.02	12.35	6.7	23	<0.05	5.4
403656		2.21	<0.001	0.10	0.78	30.0	10	0.59	0.03	1.09	0.90	15.90	7.7	22	0.41	8.7
403657		2.22	<0.001	0.07	0.68	16.5	40	0.58	0.02	0.59	0.88	11.90	6.8	21	0.12	6.6
403658		1.70	<0.001	0.23	0.80	4.6	30	0.44	0.05	1.00	1.84	15.25	9.5	30	0.17	20.9
403659		0.06	7.67	1.27	5.90	32.9	300	0.85	0.47	2.89	0.08	31.1	41.4	327	0.61	112.0
403660		2.66	0.001	0.20	0.32	9.2	20	0.40	0.04	4.27	0.07	14.50	5.0	20	0.20	16.4
403661		2.03	<0.001	0.04	0.06	5.5	10	0.25	0.01	1.90	0.02	7.91	1.4	15	0.05	2.5
403662		2.04	<0.001	0.31	0.09	4.9	10	0.36	0.01	2.87	<0.02	7.28	1.4	13	0.06	2.3
403663		2.46	<0.001	0.03	0.21	13.4	10	0.45	0.01	5.85	<0.02	8.78	3.4	49	0.12	1.7
403664		2.32	<0.001	0.01	0.14	4.2	10	0.48	0.01	8.62	<0.02	7.61	2.6	19	0.10	1.8
403665		2.35	<0.001	0.02	0.37	4.4	20	0.85	0.02	6.36	<0.02	9.76	5.3	13	0.10	3.6
403666		0.27	0.001	<0.01	0.20	0.2	30	0.09	0.02	31.0	<0.02	1.07	0.5	1	<0.05	1.2
403667		2.11	<0.001	0.02	0.31	2.9	10	0.42	0.02	7.12	<0.02	7.72	4.2	22	<0.05	2.9
403668		1.98	<0.001	0.01	0.18	0.5	10	0.68	0.02	10.15	<0.02	6.89	3.2	13	0.05	2.3
403669		1.93	<0.001	0.01	0.34	4.2	20	0.54	0.02	9.06	<0.02	9.55	5.6	15	0.07	3.6
403670		2.39	0.005	0.03	0.37	14.2	20	0.59	0.02	8.28	0.03	10.70	4.7	16	0.11	5.1



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18189326**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
403651		13.55	1.85	<0.05	0.2	<0.005	0.011	0.03	6.3	5.2	3.35	6210	1.13	<0.01	1.5	9.2
403652		14.80	2.29	0.05	0.4	0.005	0.013	0.03	5.3	5.4	2.41	7970	1.33	<0.01	3.0	15.2
403653		11.90	2.52	<0.05	0.4	0.037	0.018	0.01	5.6	5.3	1.83	7130	1.68	<0.01	3.5	14.7
403654		19.20	2.20	0.05	0.3	<0.005	0.011	0.03	6.5	4.3	2.68	10300	0.76	<0.01	3.2	7.9
403655		17.80	2.55	0.05	0.5	<0.005	0.015	<0.01	6.2	4.5	2.51	10550	0.61	<0.01	4.2	8.3
403656		19.75	4.20	0.06	0.7	0.015	0.022	0.04	8.2	3.7	2.89	17600	0.68	0.01	5.7	12.7
403657		18.30	3.19	0.05	0.5	0.009	0.017	0.06	6.2	10.9	2.76	12500	0.76	<0.01	3.9	11.0
403658		14.35	3.72	0.05	0.7	0.029	0.024	0.12	7.8	11.0	2.11	10050	4.54	0.01	4.2	17.4
403659		5.42	15.90	0.07	2.4	0.168	0.045	1.03	14.5	15.4	3.90	728	5.61	1.16	16.3	239
403660		10.10	1.54	<0.05	0.3	0.008	0.010	0.11	7.7	4.1	2.79	1780	3.38	0.01	2.9	18.5
403661		13.15	0.52	<0.05	0.1	<0.005	<0.005	0.01	4.7	1.4	2.70	2100	0.60	<0.01	0.5	4.3
403662		10.90	0.97	<0.05	0.1	<0.005	<0.005	0.03	4.2	2.2	2.78	2050	0.38	<0.01	0.8	4.3
403663		11.90	1.50	<0.05	0.2	<0.005	0.005	0.05	4.8	4.2	4.05	2690	0.67	<0.01	2.5	9.8
403664		10.15	0.87	<0.05	0.1	<0.005	<0.005	0.04	4.5	3.4	4.52	3080	0.39	<0.01	1.1	4.7
403665		16.20	1.91	<0.05	0.3	<0.005	0.008	0.07	5.2	5.2	4.09	7080	0.52	<0.01	2.4	6.0
403666		0.27	0.70	0.05	0.1	<0.005	<0.005	0.08	1.1	1.0	1.27	140	<0.05	0.10	0.3	0.2
403667		13.15	1.55	<0.05	0.2	<0.005	0.008	0.01	3.9	4.9	3.64	5700	0.46	<0.01	2.0	5.3
403668		13.15	0.92	<0.05	0.1	<0.005	0.007	0.03	3.5	4.0	4.60	6330	0.40	<0.01	1.3	3.4
403669		14.40	1.73	<0.05	0.2	<0.005	0.008	0.05	5.4	6.6	4.63	6190	0.79	<0.01	1.7	7.4
403670		12.20	1.71	<0.05	0.3	0.009	0.009	0.08	6.0	6.7	3.98	5250	1.13	<0.01	1.6	6.4



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18189326**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403651		460	1.5	1.5	<0.002	0.36	0.16	1.2	1	<0.2	31.5	0.07	<0.05	0.42	0.030	0.07
403652		320	4.0	1.7	<0.002	0.52	0.21	1.6	1	0.2	16.4	0.14	<0.05	0.51	0.048	0.07
403653		360	2.1	0.4	0.003	0.54	0.30	1.4	1	0.4	13.2	0.17	0.05	0.51	0.050	0.02
403654		570	1.7	0.7	<0.002	0.35	0.16	1.2	1	<0.2	16.5	0.17	0.05	0.53	0.039	0.04
403655		370	0.7	0.1	<0.002	0.05	0.14	1.5	<1	0.2	20.5	0.25	<0.05	0.71	0.067	<0.02
403656		540	1.3	1.2	<0.002	0.18	0.16	2.6	<1	0.2	25.2	0.35	0.05	0.89	0.127	0.02
403657		480	0.6	2.3	<0.002	0.30	0.12	2.0	1	0.3	14.6	0.30	<0.05	0.61	0.069	0.09
403658		440	1.4	3.4	0.004	1.08	0.28	2.7	1	0.3	20.8	0.24	0.07	0.96	0.071	0.19
403659		1070	8.9	37.6	<0.002	0.08	0.72	21.7	1	1.0	269	0.92	0.24	2.22	0.652	0.18
403660		340	1.9	3.0	0.002	1.82	0.45	0.9	1	<0.2	38.0	0.16	0.07	0.51	0.032	0.21
403661		240	0.5	0.6	<0.002	0.31	0.12	0.2	<1	<0.2	13.0	<0.05	<0.05	0.09	0.005	0.04
403662		160	<0.5	1.4	<0.002	0.19	0.11	0.3	<1	<0.2	20.0	<0.05	<0.05	0.13	0.005	0.05
403663		230	0.6	2.6	<0.002	0.21	0.14	0.5	<1	<0.2	37.5	0.12	<0.05	0.51	0.023	0.06
403664		280	0.8	1.8	<0.002	0.12	0.10	0.4	1	<0.2	46.1	0.05	<0.05	0.22	0.010	0.04
403665		400	0.8	2.5	<0.002	0.11	0.10	1.1	1	<0.2	39.3	0.12	<0.05	0.41	0.039	0.05
403666		60	<0.5	1.9	<0.002	0.01	0.05	0.2	1	<0.2	74.8	<0.05	<0.05	0.12	<0.005	0.02
403667		150	0.8	0.5	<0.002	0.09	0.07	1.0	1	<0.2	72.9	0.09	<0.05	0.35	0.034	<0.02
403668		130	0.9	1.0	<0.002	0.04	0.13	0.7	<1	<0.2	101.0	0.06	<0.05	0.23	0.022	0.02
403669		460	0.7	2.0	<0.002	0.10	0.11	1.1	<1	<0.2	78.1	0.09	<0.05	0.37	0.030	0.06
403670		540	1.3	2.4	<0.002	0.39	0.22	1.2	1	<0.2	89.7	0.08	<0.05	0.49	0.022	0.11



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
22-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18189326**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
403651		1.1	27	0.5	7.2	30	11.1
403652		1.6	34	0.3	6.0	32	15.0
403653		2.3	38	1.0	5.6	1010	17.8
403654		0.5	30	0.6	6.0	24	15.6
403655		0.5	41	0.4	7.2	11	19.3
403656		0.8	69	0.4	7.4	261	28.4
403657		0.4	59	0.7	4.9	244	20.8
403658		2.2	63	0.6	6.5	517	32.4
403659		0.5	140	8.9	14.9	82	95.5
403660		2.5	17	0.4	6.4	27	15.1
403661		0.6	6	0.7	4.5	10	2.9
403662		0.4	12	0.9	4.3	8	3.8
403663		1.0	17	0.6	5.7	8	8.0
403664		0.6	12	0.6	7.4	4	4.1
403665		0.4	28	0.7	6.0	7	10.8
403666		0.2	2	0.1	2.1	3	2.3
403667		0.4	24	0.5	5.1	6	9.5
403668		0.3	17	1.2	5.5	6	5.5
403669		0.5	26	0.7	6.7	7	9.4
403670		1.0	26	0.6	7.0	17	11.7



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date:  
**22-AOUT-2018**  
Compte: **MINVIR**

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## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
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plus les pages d'annexe  
Finalisée date: 22-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18189327

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-024

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 1-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Projet: Kan

**CERTIFICAT D'ANALYSE VO18189327**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403671		2.38	<0.001	0.02	0.15	5.6	10	0.32	0.01	4.46	0.03	19.75	3.9	23	0.09	5.6
403672		2.02	<0.001	0.02	0.03	1.6	10	0.40	0.01	1.17	<0.02	7.87	1.2	12	<0.05	1.4
403673		2.07	<0.001	0.01	0.12	3.9	10	0.60	0.01	2.31	<0.02	8.25	2.4	12	<0.05	2.4
403674		2.30	<0.001	0.01	0.11	5.2	10	0.41	0.01	5.97	<0.02	6.23	1.9	20	0.07	1.7
403675		2.34	<0.001	0.04	0.25	6.1	10	1.00	0.02	5.53	<0.02	8.14	4.3	16	0.11	3.8
403676		2.21	<0.001	0.03	0.35	2.8	20	1.02	0.02	1.67	<0.02	9.56	6.6	11	<0.05	4.0
403677		2.05	<0.001	0.02	0.43	4.5	10	0.84	0.03	2.21	<0.02	12.25	7.8	13	<0.05	6.1
403678		2.29	<0.001	0.04	0.15	8.3	20	0.33	0.01	7.21	<0.02	7.40	3.5	28	0.11	3.0
403679		0.06	0.665	0.20	7.02	19.9	330	1.26	0.14	4.37	0.21	51.1	43.8	186	1.86	54.7
403680		2.51	<0.001	0.02	0.37	2.2	10	1.21	0.02	5.74	<0.02	9.77	5.4	18	0.09	3.8
403681		2.44	<0.001	0.04	0.42	2.3	10	0.68	0.02	1.51	<0.02	9.85	6.4	15	<0.05	4.4
403682		2.49	0.005	0.08	0.51	4.3	<10	0.70	0.03	1.99	<0.02	13.15	7.2	15	0.17	6.3
403683		2.09	<0.001	0.08	0.69	2.3	30	1.16	0.03	1.47	0.03	15.65	8.0	21	6.45	11.0
403684		2.07	<0.001	0.04	0.52	2.2	30	1.36	0.02	0.90	<0.02	12.95	7.6	15	5.47	10.9
403685		2.13	<0.001	0.14	0.79	2.5	40	1.47	0.02	0.71	<0.02	15.55	8.1	20	9.03	5.6
403686		0.25	0.001	<0.01	0.06	0.3	20	<0.05	0.01	31.7	<0.02	1.02	0.5	1	0.09	0.7
403687		2.33	0.001	0.04	0.97	39.5	60	1.56	0.02	0.45	<0.02	15.85	10.1	25	11.40	9.5
403688		3.29	<0.001	0.03	0.87	2.4	60	1.50	0.03	0.51	0.03	14.70	7.8	23	9.17	13.7
403689		2.13	0.039	0.84	6.35	158.0	70	1.04	0.26	0.57	1.90	73.4	25.3	66	2.60	87.3
403690		1.73	0.002	0.01	6.92	87.0	30	0.45	0.01	0.37	0.03	9.69	53.5	162	0.45	2.0



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18189327**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
403671		10.45	1.14	<0.05	0.2	0.011	0.007	0.06	9.9	3.1	3.24	2000	0.74	<0.01	2.4	10.1
403672		13.80	0.34	<0.05	<0.1	0.009	<0.005	0.01	4.8	1.0	2.59	1980	0.17	<0.01	0.4	2.9
403673		14.20	0.91	<0.05	0.1	0.009	0.006	0.02	4.9	2.3	2.88	2290	0.51	<0.01	0.9	4.6
403674		9.21	0.86	<0.05	0.1	0.012	<0.005	0.04	3.7	2.9	3.35	2380	0.45	<0.01	0.6	4.0
403675		13.85	1.48	<0.05	0.2	0.009	0.005	0.03	4.4	3.6	3.45	5740	0.50	<0.01	1.5	5.5
403676		21.0	1.99	0.06	0.3	<0.005	0.008	0.01	5.2	3.5	2.58	9670	0.56	<0.01	2.9	6.0
403677		20.8	2.59	0.05	0.4	0.005	0.010	<0.01	6.6	4.1	2.78	13450	0.58	<0.01	3.6	8.3
403678		10.65	0.85	<0.05	0.1	0.015	0.005	0.03	4.3	2.9	3.92	3700	0.60	<0.01	1.2	7.1
403679		7.22	20.3	0.08	3.8	0.021	0.064	0.87	21.8	13.9	2.84	913	2.24	1.70	19.9	141.5
403680		15.35	2.06	<0.05	0.2	<0.005	0.009	0.02	5.2	4.4	3.75	7020	0.56	<0.01	2.3	6.8
403681		20.1	2.15	0.05	0.4	<0.005	0.012	<0.01	5.3	2.8	2.57	10100	0.53	<0.01	3.4	7.5
403682		20.5	2.63	0.05	0.5	0.013	0.012	0.01	7.0	2.1	2.82	12300	0.35	<0.01	4.0	7.8
403683		20.4	3.42	0.06	0.6	0.096	0.017	0.33	7.8	0.9	2.83	12350	0.40	0.12	5.6	10.6
403684		22.4	2.85	0.06	0.5	0.090	0.012	0.31	6.5	0.6	3.05	13200	0.31	0.10	4.5	8.0
403685		21.1	4.23	0.06	0.7	0.058	0.016	0.47	7.9	0.8	3.05	15100	0.51	0.16	5.9	12.5
403686		0.26	0.22	0.08	<0.1	<0.005	<0.005	0.01	1.1	0.7	1.33	197	<0.05	0.03	0.1	0.2
403687		21.9	5.12	0.06	0.7	0.097	0.019	0.55	8.3	0.9	2.79	15600	0.69	0.20	5.9	14.9
403688		20.7	4.40	0.14	0.6	0.110	0.024	0.49	7.4	0.9	2.60	14850	1.54	0.18	5.1	19.9
403689		16.75	17.70	0.19	4.0	0.767	0.120	2.48	41.1	21.2	0.70	160	18.20	0.40	16.2	131.0
403690		12.60	16.75	0.11	1.6	0.006	0.042	0.17	4.2	43.8	5.49	1300	0.40	0.24	8.1	157.0





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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18189327**

Description échantillon	Méthode		élément														
	unités		ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	LDI		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02		
403671	560	0.8	2.0	<0.002	0.29	0.24	0.9	1	<0.2	35.5	0.16	<0.05	0.44	0.020	0.08		
403672	360	0.5	0.4	<0.002	0.11	0.13	0.1	<1	<0.2	7.7	<0.05	<0.05	0.07	<0.005	0.02		
403673	270	<0.5	0.9	<0.002	0.20	0.09	0.3	<1	<0.2	15.6	0.05	<0.05	0.15	0.008	0.03		
403674	130	0.6	1.6	<0.002	0.18	0.25	0.3	<1	<0.2	31.4	<0.05	<0.05	0.18	0.005	0.04		
403675	260	0.9	1.6	<0.002	0.18	0.10	0.8	1	<0.2	32.3	0.08	<0.05	0.32	0.024	0.04		
403676	400	0.6	0.5	<0.002	0.08	0.07	1.1	1	0.2	25.8	0.12	<0.05	0.40	0.044	<0.02		
403677	430	0.8	0.2	<0.002	0.11	0.08	1.3	1	0.2	22.9	0.19	<0.05	0.56	0.049	<0.02		
403678	200	1.0	1.4	<0.002	0.23	0.44	0.5	<1	<0.2	61.3	0.06	<0.05	0.25	0.014	0.05		
403679	1110	13.2	36.0	<0.002	0.02	0.96	21.1	<1	1.7	345	1.15	<0.05	4.68	0.898	0.19		
403680	400	0.8	1.3	<0.002	0.10	0.07	1.1	1	<0.2	40.1	0.11	<0.05	0.44	0.037	0.03		
403681	420	0.7	0.2	<0.002	0.10	0.06	1.3	1	0.2	23.3	0.15	<0.05	0.49	0.055	<0.02		
403682	490	0.8	0.3	<0.002	0.10	0.07	1.4	1	0.2	24.0	0.23	<0.05	0.62	0.051	<0.02		
403683	450	0.8	11.0	<0.002	0.14	0.29	2.1	1	0.2	32.4	0.36	<0.05	1.05	0.091	0.03		
403684	450	0.7	9.5	<0.002	0.14	0.63	1.7	1	0.2	19.1	0.28	0.05	0.67	0.082	0.04		
403685	530	1.3	15.1	<0.002	0.07	0.97	2.7	<1	0.2	14.8	0.36	<0.05	0.90	0.122	0.07		
403686	50	<0.5	0.3	<0.002	<0.01	0.05	0.2	1	<0.2	76.2	<0.05	<0.05	0.08	0.005	<0.02		
403687	590	1.2	18.9	<0.002	0.15	0.85	3.2	<1	0.3	9.0	0.32	0.09	0.93	0.125	0.11		
403688	560	6.9	17.5	0.002	0.11	0.91	2.7	1	0.3	10.5	0.28	0.05	0.89	0.116	0.07		
403689	190	64.0	60.1	0.023	>10.0	17.35	10.1	4	2.2	32.9	1.06	0.83	6.02	0.203	3.31		
403690	490	1.5	4.7	0.003	0.08	0.31	46.8	<1	1.7	15.6	0.20	<0.05	0.30	0.735	0.07		



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Page: 2 - D  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18189327**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
403671		1.1	12	0.4	7.1	10	8.9
403672		0.1	4	0.2	4.9	5	1.9
403673		0.4	17	0.6	4.9	4	3.8
403674		0.9	12	0.3	4.9	3	3.7
403675		0.6	19	0.3	6.2	5	7.3
403676		0.3	30	0.6	5.2	7	12.8
403677		0.4	34	0.4	6.1	9	17.4
403678		0.7	13	0.3	5.9	7	5.5
403679		1.1	144	2.2	20.2	127	148.0
403680		0.4	26	0.6	6.6	7	10.5
403681		0.4	33	0.3	5.9	8	15.0
403682		0.5	37	0.4	8.1	10	19.5
403683		0.5	52	0.9	8.2	18	28.4
403684		0.3	45	0.6	7.6	9	21.1
403685		0.6	70	1.0	9.0	13	31.0
403686		0.2	2	0.1	1.9	2	1.2
403687		0.6	87	0.8	9.1	15	33.2
403688		0.6	76	0.7	8.1	21	27.5
403689		12.9	215	0.7	14.4	585	159.5
403690		0.3	366	33.1	4.3	239	60.9



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Page: **Annexe 1**  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18189327**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
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plus les pages d'annexe  
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## CERTIFICAT VO18189328

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-25

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 1-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18189328**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403691		1.27	<0.001	0.01	7.00	90.0	60	0.72	0.01	0.82	0.04	12.15	55.2	154	0.57	2.6
403692		2.47	<0.001	0.01	6.55	76.9	50	0.77	0.01	0.84	0.03	13.00	52.8	153	0.66	1.9
403693		2.19	0.002	<0.01	6.12	62.2	<10	0.37	0.01	0.13	<0.02	19.00	54.6	173	0.60	0.7
403694		1.91	0.002	0.01	5.23	40.6	<10	0.32	0.01	0.08	<0.02	6.71	36.8	101	0.92	0.7
403695		1.95	<0.001	0.04	5.63	45.7	<10	0.35	0.01	0.09	<0.02	6.77	45.1	132	0.92	0.6
403696		1.56	0.002	0.01	6.67	65.0	<10	0.49	0.01	0.09	<0.02	14.95	62.0	177	0.78	0.8
403697		1.89	0.021	0.02	6.45	60.7	40	0.70	0.01	0.09	<0.02	11.30	56.2	159	0.86	0.4
403698		2.02	0.020	0.01	6.46	67.3	20	0.53	0.01	0.09	<0.02	9.90	59.5	173	0.77	0.5
403699		0.06	2.60	0.48	6.66	11.2	310	1.21	0.17	4.80	0.09	43.7	53.8	310	0.69	81.6
403700		2.11	0.007	0.01	6.32	100.5	<10	0.38	0.01	0.10	<0.02	8.10	65.8	156	0.89	4.0
403701		2.17	0.005	0.06	4.48	27.3	<10	0.28	<0.01	0.09	<0.02	2.73	28.5	104	0.82	4.4
403702		2.17	0.005	0.01	5.44	31.0	<10	0.32	<0.01	0.08	<0.02	6.63	34.6	123	1.02	1.5
403703		2.74	0.002	0.05	4.19	20.0	<10	0.25	0.03	0.16	<0.02	14.20	21.6	79	0.84	9.4
403704		1.65	0.007	0.09	0.42	16.4	10	0.12	0.06	2.68	0.14	14.55	7.8	19	1.08	40.7
403705		2.12	0.002	0.03	0.57	59.3	<10	0.14	0.02	3.08	0.12	4.62	3.1	16	0.82	13.6
403706		0.26	0.001	<0.01	0.08	0.3	10	0.08	0.01	34.7	<0.02	1.13	0.8	3	<0.05	1.4
403707		3.17	0.003	0.10	0.36	29.5	10	0.15	0.06	3.75	0.16	12.45	5.4	18	1.70	43.1
403708		1.90	0.027	1.10	5.28	3.8	50	2.46	0.22	0.18	2.03	59.8	108.5	71	1.78	302
403709		1.90	0.533	0.15	0.58	1.6	30	0.39	0.06	1.15	0.12	26.6	6.4	21	3.46	44.0
403710		2.49	1.155	0.07	0.21	18.1	20	0.31	0.02	1.06	0.07	11.55	3.4	11	2.82	11.3



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 30-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189328**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
403691		11.50	16.90	0.06	1.9	<0.005	0.046	0.34	5.3	51.8	4.94	1310	0.19	0.76	5.1	154.5
403692		11.75	17.35	0.05	1.7	<0.005	0.044	0.28	5.9	53.4	4.76	1470	0.20	0.49	5.8	131.0
403693		14.40	18.75	0.12	1.9	<0.005	0.036	0.01	8.9	54.5	4.62	1330	0.21	0.01	9.9	131.0
403694		11.65	14.55	0.05	1.0	<0.005	0.031	0.01	3.3	39.3	3.73	978	0.22	<0.01	4.3	94.3
403695		12.55	15.60	0.06	1.4	0.006	0.031	0.01	3.3	44.7	4.05	1090	0.21	<0.01	3.6	106.5
403696		15.80	20.3	0.21	2.0	<0.005	0.040	0.02	6.4	66.6	5.09	1400	0.27	<0.01	5.8	160.0
403697		13.00	17.90	0.07	1.5	0.007	0.038	0.20	5.1	59.5	4.83	1130	0.24	<0.01	10.7	147.0
403698		15.35	18.90	0.12	1.8	<0.005	0.037	0.05	4.4	65.2	4.97	1360	0.22	<0.01	8.7	158.0
403699		7.40	18.15	0.10	3.4	0.070	0.060	0.99	21.3	9.5	5.48	1020	2.89	1.97	29.5	347
403700		14.25	19.65	0.09	1.4	0.006	0.030	0.02	3.9	36.4	4.63	1080	0.53	<0.01	15.7	155.5
403701		10.50	15.35	0.06	1.0	0.005	0.023	0.02	1.3	21.6	3.16	781	0.41	<0.01	10.2	65.6
403702		13.00	17.75	0.08	1.4	0.005	0.027	0.02	3.2	26.5	3.73	892	0.24	<0.01	9.0	71.0
403703		10.95	15.30	0.06	1.5	0.017	0.027	0.02	6.9	19.4	2.81	704	3.65	<0.01	10.1	46.1
403704		13.60	2.20	0.08	0.1	0.013	0.016	0.10	8.0	2.6	2.22	3620	1.32	<0.01	1.9	12.3
403705		10.65	2.57	0.07	0.1	0.011	0.022	0.06	2.4	3.0	2.19	3690	0.44	0.01	0.7	3.7
403706		0.23	0.32	0.07	<0.1	<0.005	<0.005	0.01	1.2	1.3	1.55	109	0.05	0.03	0.1	0.9
403707		10.85	2.27	0.09	0.2	0.037	0.011	0.19	6.6	3.0	2.30	3290	2.25	0.01	2.6	11.8
403708		23.8	16.65	0.19	3.7	0.501	0.133	2.98	31.7	34.5	0.56	104	14.15	0.15	8.0	114.5
403709		15.80	3.83	0.09	0.7	0.054	0.042	0.41	13.8	5.0	2.19	4380	4.60	0.04	8.7	18.7
403710		21.1	2.16	0.09	0.1	0.006	0.009	0.15	6.6	1.5	3.14	5760	1.19	0.02	1.8	5.9



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 30-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189328**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403691		430	0.8	9.6	0.003	0.02	0.25	46.0	<1	3.1	36.1	0.22	<0.05	0.31	0.693	0.06
403692		430	1.0	8.3	<0.002	0.01	0.27	45.9	<1	2.0	29.8	0.21	<0.05	0.28	0.697	0.06
403693		440	0.9	0.9	0.002	0.01	0.31	32.0	1	0.3	4.4	0.28	<0.05	0.41	0.767	0.02
403694		320	0.7	0.7	<0.002	0.01	0.27	33.8	1	0.2	2.8	0.18	<0.05	0.22	0.405	<0.02
403695		340	0.5	0.8	<0.002	0.01	0.29	36.8	<1	0.3	3.0	0.16	<0.05	0.22	0.551	<0.02
403696		410	3.3	1.0	0.002	0.01	0.35	35.0	1	0.5	3.4	0.24	<0.05	0.30	0.798	0.02
403697		400	<0.5	5.9	<0.002	0.01	0.30	44.2	1	1.5	3.3	0.21	<0.05	0.31	0.659	0.05
403698		430	<0.5	1.6	0.002	0.01	0.32	30.0	1	0.7	3.3	0.26	<0.05	0.27	0.766	0.02
403699		1850	4.9	31.8	<0.002	0.03	0.39	22.8	1	1.2	469	1.62	0.07	2.96	1.035	0.07
403700		310	2.8	1.2	0.002	0.02	0.33	37.6	<1	0.4	3.9	0.31	<0.05	0.28	0.608	0.02
403701		210	2.4	1.1	0.002	0.03	0.26	27.1	<1	0.3	3.3	0.30	<0.05	0.16	0.447	0.02
403702		270	1.4	1.5	0.002	0.02	0.25	34.2	<1	0.3	2.9	0.27	<0.05	0.25	0.556	0.02
403703		450	1.5	1.3	0.008	0.55	0.24	22.8	<1	0.2	5.8	0.49	<0.05	0.96	0.349	0.02
403704		80	2.0	5.1	0.003	1.71	0.20	1.2	1	0.2	74.3	0.08	0.14	0.17	0.013	0.08
403705		140	1.5	2.9	<0.002	0.51	0.19	4.5	1	<0.2	89.6	<0.05	0.09	0.08	0.006	0.04
403706		60	0.5	0.2	<0.002	<0.01	0.07	0.4	1	<0.2	83.3	<0.05	<0.05	0.05	0.007	<0.02
403707		130	8.2	8.2	0.005	1.74	0.27	1.0	2	0.2	122.5	0.11	0.13	0.29	0.021	0.11
403708		520	108.0	75.7	0.017	>10.0	6.07	13.7	7	4.3	16.5	0.39	1.43	4.54	0.172	1.13
403709		470	15.9	18.9	0.007	2.41	0.75	1.9	2	0.9	37.8	0.34	0.20	0.77	0.068	0.28
403710		250	1.2	6.8	<0.002	0.76	0.15	0.5	1	<0.2	21.5	0.07	0.07	0.17	0.012	0.05



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 30-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189328**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
403691		0.2	345	44.4	4.5	189	60.5
403692		0.2	348	32.7	4.2	200	55.9
403693		0.3	350	4.1	3.8	231	70.1
403694		0.2	257	3.2	2.7	178	36.8
403695		0.2	286	6.5	2.8	187	48.5
403696		0.2	389	9.3	3.9	246	71.9
403697		0.2	352	1.9	3.1	210	54.2
403698		0.3	364	5.9	3.8	246	67.5
403699		0.6	145	3.2	21.1	103	144.0
403700		0.2	302	2.4	2.1	189	51.4
403701		0.2	228	1.2	1.5	131	35.9
403702		0.2	274	3.1	2.0	147	48.5
403703		2.0	210	1.5	4.4	129	61.3
403704		0.9	40	0.2	4.5	31	8.6
403705		0.1	31	0.1	3.4	28	3.9
403706		0.1	3	<0.1	2.2	6	1.5
403707		1.2	49	0.3	5.0	29	14.1
403708		11.0	140	3.2	13.0	401	148.5
403709		2.5	88	0.4	7.7	53	41.5
403710		0.5	27	0.1	3.8	25	7.3





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **30-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189328**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 20-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18189329

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Bon de commande #: KANDH18-PRIORITY-26

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 1-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189329**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403711		2.22	0.012	0.03	0.13	12.6	10	0.27	0.04	5.38	0.07	8.03	2.0	6	0.99	2.4
403712		2.22	3.28	0.12	0.36	21.2	30	0.37	0.14	7.03	0.19	9.65	3.8	9	3.56	8.9
403713		2.23	0.668	0.07	0.28	30.2	20	0.28	0.04	2.72	0.16	8.86	3.6	6	3.32	8.4
403714		2.22	0.033	0.03	0.15	8.8	20	0.27	0.02	2.90	0.05	8.99	3.7	8	1.81	2.0
403715		2.58	0.096	0.02	0.19	142.5	20	0.30	0.03	2.97	0.07	10.35	4.4	7	2.00	4.4
403716		2.02	0.315	0.07	0.34	341	20	0.24	0.05	4.28	0.17	9.80	5.3	6	2.64	11.1
403717		2.34	0.199	0.02	0.45	35.0	40	0.31	0.02	7.08	0.24	11.45	3.3	5	5.26	8.9
403718		2.13	0.009	0.03	0.30	106.5	10	0.22	0.02	5.50	0.14	8.10	2.9	6	1.01	10.2
403719		0.06	7.60	1.41	6.11	33.5	330	1.03	0.49	3.01	0.09	33.5	42.2	329	0.66	110.5
403720		2.36	0.066	0.04	0.40	9.3	20	0.34	0.03	4.30	0.15	18.70	4.6	10	3.04	13.8
403721		2.18	0.471	0.03	0.37	16.0	30	0.27	0.02	3.43	0.09	19.70	6.1	10	2.88	5.6
403722		2.14	0.451	0.01	0.37	22.3	20	0.44	0.02	4.00	0.10	19.05	6.4	11	2.35	5.3
403723		2.20	0.417	0.01	0.16	3.1	10	0.27	0.01	7.12	0.11	9.61	4.8	6	1.72	3.3
403724		2.27	0.215	0.02	0.17	12.2	10	0.26	0.01	2.61	0.04	12.05	4.7	10	1.71	1.7
403725		2.27	0.214	0.02	0.29	7.0	20	0.28	0.02	4.31	0.10	14.60	4.8	10	2.38	5.9
403726		0.28	0.002	<0.01	0.06	<0.2	20	0.06	0.01	33.9	<0.02	0.99	0.8	2	<0.05	1.2
403727		2.20	0.002	0.03	0.26	15.6	10	0.58	0.03	0.91	0.04	10.20	4.6	8	1.11	10.4
403728		2.26	0.001	0.09	0.12	2.9	<10	0.67	0.07	1.18	<0.02	8.33	7.9	6	0.19	20.4
403729		2.16	<0.001	0.02	0.06	1.3	10	0.50	0.01	2.14	<0.02	9.69	2.5	5	0.38	1.6
403730		2.27	0.632	0.07	0.23	2.7	10	0.37	0.03	2.72	0.08	10.50	5.8	9	0.92	17.9



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189329**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
403711		17.95	1.34	0.12	0.1	0.008	<0.005	0.05	4.6	0.9	4.06	5340	0.26	0.02	1.1	2.4
403712		17.85	1.44	0.11	0.1	0.168	0.009	0.15	5.6	1.1	3.90	5600	0.51	0.05	1.3	4.8
403713		21.3	1.31	0.14	0.1	0.023	0.012	0.13	5.3	1.2	3.24	6130	0.28	0.04	1.3	3.5
403714		18.70	0.92	0.12	0.1	0.007	0.005	0.07	5.2	0.7	2.79	5430	0.25	0.02	2.9	3.4
403715		21.9	1.01	0.12	0.1	0.008	0.008	0.08	6.1	0.9	3.27	6120	0.30	0.02	4.4	3.6
403716		21.2	1.51	0.13	0.1	0.024	0.014	0.12	5.7	1.7	3.45	6130	0.43	0.02	5.0	4.5
403717		18.50	1.84	0.10	0.1	0.022	0.018	0.23	6.7	2.1	3.94	5860	0.32	0.05	1.3	4.1
403718		17.15	1.59	0.09	0.1	0.006	0.013	0.08	4.5	2.0	3.73	5590	0.20	0.01	0.8	3.3
403719		5.62	15.55	0.16	2.4	0.142	0.045	1.08	16.7	13.9	3.99	739	6.27	1.20	15.7	247
403720		22.4	1.98	0.11	0.2	0.016	0.012	0.20	9.7	3.2	3.55	9690	1.24	0.02	3.1	5.1
403721		22.2	1.85	0.12	0.2	0.018	0.011	0.14	9.2	1.8	3.08	9750	0.87	0.03	6.6	5.1
403722		22.0	1.70	0.12	0.2	0.017	0.009	0.10	9.6	1.6	3.33	9830	0.68	0.03	4.7	4.5
403723		18.15	0.81	0.09	0.1	0.008	0.006	0.06	5.3	1.0	3.92	7500	0.24	0.02	1.5	3.1
403724		20.2	0.87	0.10	0.1	0.006	0.005	0.07	6.8	0.9	3.06	9050	0.33	0.02	2.6	3.2
403725		18.80	1.30	0.11	0.2	0.033	0.007	0.09	8.2	1.2	3.01	7940	0.23	0.03	2.7	4.0
403726		0.18	0.28	0.12	<0.1	<0.005	<0.005	0.01	1.2	1.2	1.85	118	<0.05	0.03	0.1	0.3
403727		25.2	1.29	0.13	0.1	0.006	0.006	0.04	6.6	0.9	2.49	6600	1.04	0.01	1.4	3.6
403728		25.6	0.76	0.13	0.1	0.009	<0.005	0.02	5.1	0.8	2.20	6510	1.13	<0.01	0.9	7.5
403729		22.0	0.49	0.12	<0.1	<0.005	<0.005	0.01	5.9	0.6	2.77	7740	0.29	0.01	0.5	4.3
403730		20.3	1.11	0.11	0.1	0.022	0.006	0.05	5.9	1.3	2.62	7100	0.25	0.01	1.5	6.3



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-AOUT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18189329**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403711		160	1.5	1.9	<0.002	0.16	0.27	0.4	<1	<0.2	88.8	0.05	<0.05	0.16	0.008	<0.02
403712		120	2.4	5.1	<0.002	0.66	0.30	0.7	1	0.2	136.5	0.07	0.08	0.25	0.016	0.03
403713		160	1.7	5.4	<0.002	0.55	0.22	0.6	1	<0.2	55.4	0.07	<0.05	0.22	0.008	0.03
403714		140	1.0	2.5	<0.002	0.12	0.21	0.4	1	<0.2	43.6	0.08	<0.05	0.21	0.008	0.02
403715		240	1.3	3.1	<0.002	0.31	0.23	0.4	1	<0.2	44.9	0.09	0.11	0.24	0.010	0.02
403716		240	2.1	5.3	<0.002	0.92	0.29	0.8	1	<0.2	93.2	0.09	0.27	0.19	0.009	0.04
403717		180	5.9	9.9	<0.002	0.76	0.26	1.0	1	<0.2	156.5	0.13	0.09	0.23	0.012	0.07
403718		160	1.9	3.8	<0.002	0.57	0.16	1.0	1	<0.2	119.5	0.08	0.10	0.15	0.006	0.04
403719		1100	9.5	40.2	<0.002	0.08	0.82	20.1	1	1.0	279	0.93	0.22	2.46	0.686	0.18
403720		530	2.3	10.4	0.002	0.82	0.17	1.1	1	<0.2	93.0	0.12	0.05	0.59	0.025	0.11
403721		580	1.2	6.2	<0.002	0.26	0.21	0.9	1	<0.2	60.4	0.20	<0.05	1.49	0.032	0.05
403722		610	1.3	3.9	<0.002	0.30	0.17	0.9	1	<0.2	65.6	0.16	<0.05	0.83	0.033	0.03
403723		250	1.6	2.5	<0.002	0.14	0.18	0.4	1	<0.2	103.0	0.06	<0.05	0.27	0.013	0.02
403724		440	0.9	2.7	<0.002	0.08	0.16	0.4	1	<0.2	39.4	0.10	<0.05	0.47	0.015	0.02
403725		420	1.6	3.8	<0.002	0.56	0.17	0.6	1	<0.2	72.0	0.13	<0.05	0.44	0.028	0.03
403726		70	<0.5	0.4	<0.002	<0.01	<0.05	0.2	1	<0.2	81.3	<0.05	<0.05	0.07	0.005	<0.02
403727		240	2.2	1.6	0.002	0.78	0.11	0.6	1	<0.2	12.1	0.06	<0.05	0.26	0.015	<0.02
403728		240	2.6	1.0	<0.002	2.29	0.14	0.2	1	<0.2	13.8	<0.05	0.06	0.12	0.007	0.02
403729		210	0.9	0.6	<0.002	0.20	0.09	0.1	1	<0.2	20.8	<0.05	<0.05	0.10	<0.005	<0.02
403730		270	1.7	2.1	<0.002	1.41	0.14	0.5	2	<0.2	50.1	0.07	<0.05	0.36	0.016	0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18189329**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
403711		0.2	13	0.2	5.8	9	4.2
403712		0.4	21	0.2	7.0	24	7.2
403713		0.2	17	0.8	4.7	23	4.6
403714		0.2	15	0.1	4.3	11	5.7
403715		0.2	17	0.2	5.2	18	7.1
403716		0.2	24	0.3	5.8	31	4.0
403717		0.3	27	0.1	7.5	35	5.4
403718		0.2	17	0.2	5.8	30	3.9
403719		0.6	143	9.1	14.4	83	102.5
403720		0.4	24	0.2	6.3	34	10.8
403721		0.3	18	0.2	5.7	30	11.0
403722		0.3	19	0.2	6.3	22	11.1
403723		0.1	10	0.2	5.9	17	4.9
403724		0.1	13	0.2	4.9	15	6.7
403725		0.2	17	0.2	5.7	19	8.1
403726		0.1	2	0.1	2.0	4	1.5
403727		0.3	27	0.2	5.5	12	6.3
403728		0.2	9	0.1	5.4	8	2.7
403729		0.1	8	0.2	5.8	7	2.3
403730		0.1	14	0.2	5.0	12	5.6



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **20-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189329**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.  
CRU-31 CRU-QC  
PUL-31 PUL-QC

LOG-21 LOG-23  
SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
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## CERTIFICAT VO18189331

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-027

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 1-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189331**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403731		2.22	<0.001	0.01	0.26	9.0	10	0.49	0.01	4.24	0.03	11.70	7.4	14	1.64	2.0
403732		2.35	0.001	0.01	0.17	2.6	10	0.51	<0.01	3.97	0.02	10.30	5.9	10	1.62	1.8
403733		2.38	0.340	0.08	0.27	11.2	20	0.52	0.03	3.13	0.05	12.90	7.6	10	2.61	6.3
403734		2.21	1.690	0.09	0.23	30.6	30	0.47	0.02	1.21	0.07	9.17	7.8	11	3.68	9.4
403735		2.27	0.010	0.01	0.14	20.2	20	0.41	0.01	1.76	0.07	7.02	4.0	8	2.31	1.9
403736		2.27	0.051	0.02	0.11	33.0	10	0.59	0.01	1.32	0.03	9.74	5.5	6	1.81	2.2
403737		2.34	0.519	0.04	0.21	17.1	20	0.42	0.01	3.32	0.11	9.68	5.1	9	3.33	6.1
403738		2.21	2.15	0.16	0.55	23.2	40	0.40	0.02	5.81	0.22	15.75	6.3	9	6.73	9.6
403739		0.06	0.679	0.20	7.34	19.3	340	1.39	0.13	4.50	0.19	49.8	44.7	186	2.00	54.6
403740		2.36	0.857	0.03	0.47	7.0	30	0.43	0.02	2.18	0.07	11.65	5.5	15	4.29	4.3
403741		2.39	0.255	0.05	0.44	21.1	20	0.57	0.02	2.48	0.06	12.90	7.9	20	2.39	5.4
403742		2.34	0.397	0.03	0.65	20.2	10	0.41	0.01	1.77	0.05	15.40	9.2	26	1.66	4.1
403743		2.52	0.005	0.11	0.99	12.2	10	0.33	0.03	3.74	0.11	20.7	9.7	31	2.64	14.1
403744		2.21	<0.001	0.02	0.57	17.8	10	0.45	0.02	1.12	0.03	14.15	9.4	20	1.01	6.2
403745		2.34	0.001	0.20	0.61	5.6	<10	0.82	0.02	2.46	0.02	14.10	7.9	21	0.30	8.0
403746		0.29	<0.001	<0.01	0.08	<0.2	20	0.07	0.01	35.9	<0.02	1.13	0.7	2	<0.05	2.4
403747		2.47	0.004	0.02	1.20	13.3	10	1.25	0.03	1.48	0.02	20.2	11.6	33	0.63	12.4
403748		2.17	0.002	0.01	0.78	8.6	20	0.65	0.02	6.12	0.10	13.20	7.0	23	4.45	5.9
403749		2.27	<0.001	0.03	1.05	2.8	20	0.48	0.04	5.35	0.09	14.10	8.0	26	4.42	7.5
403750		2.02	0.002	0.04	0.62	1.5	10	0.36	0.07	5.89	0.05	8.10	5.8	24	1.83	10.5



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Page: 2 – B  
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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
403731		20.4	1.30	0.07	0.2	0.008	0.006	0.08	5.7	1.5	3.56	9360	0.34	0.02	4.4	5.2
403732		23.2	0.75	0.09	0.1	0.016	0.005	0.06	5.7	0.9	3.70	9140	0.47	0.02	2.7	3.7
403733		24.2	1.13	0.08	0.2	0.014	0.008	0.10	6.8	1.2	3.65	9520	0.62	0.03	3.6	4.7
403734		25.1	1.06	0.09	0.1	0.060	<0.005	0.13	5.2	0.8	3.70	8550	0.38	0.04	2.2	4.2
403735		24.5	0.69	0.08	0.1	0.017	<0.005	0.08	4.2	0.5	3.71	7320	0.16	0.03	1.3	2.3
403736		28.2	0.66	0.10	0.1	0.013	<0.005	0.06	6.3	0.4	3.47	9500	0.18	0.02	1.4	2.8
403737		26.5	0.94	0.10	0.1	0.045	0.007	0.11	5.6	0.7	3.91	9120	0.22	0.04	1.9	2.5
403738		25.0	2.11	0.10	0.2	0.078	0.015	0.25	8.4	2.0	4.59	9860	0.25	0.07	4.5	4.8
403739		7.49	20.2	0.10	4.0	0.027	0.069	0.92	22.4	14.2	2.94	955	2.32	1.76	20.5	144.5
403740		21.4	1.96	0.08	0.3	0.049	0.010	0.15	6.2	1.2	3.40	10900	0.37	0.05	3.2	5.6
403741		23.4	1.99	0.08	0.3	0.020	0.007	0.08	6.7	1.2	3.48	13800	0.60	0.03	3.3	8.5
403742		22.2	2.96	0.09	0.4	0.840	0.053	0.05	8.1	1.5	3.05	14450	1.05	0.02	4.5	12.1
403743		21.3	4.25	0.10	0.8	0.025	0.079	0.12	10.6	2.6	3.90	10750	1.08	0.02	6.7	13.1
403744		20.9	2.38	0.10	0.5	0.017	0.011	0.03	7.4	1.3	2.73	14700	0.56	0.01	4.4	14.3
403745		20.2	2.53	0.08	0.6	0.010	0.013	0.02	7.2	2.0	3.46	12900	0.43	<0.01	5.3	10.4
403746		0.29	0.25	<0.05	<0.1	<0.005	<0.005	0.02	1.3	0.9	1.53	210	0.06	0.03	0.2	0.3
403747		22.7	5.50	0.10	1.0	0.009	0.027	0.07	11.0	4.2	3.34	17800	0.92	<0.01	9.3	17.9
403748		17.15	3.36	0.08	0.6	0.021	0.020	0.15	6.7	2.5	3.98	13150	0.45	0.04	5.7	12.5
403749		14.70	4.21	0.06	0.6	0.015	0.019	0.21	7.2	3.5	3.67	8570	0.65	0.04	4.5	13.4
403750		12.65	2.79	0.05	0.3	0.016	0.019	0.09	4.4	2.3	3.43	7700	0.49	0.02	2.6	9.7



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189331**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403731		290	1.8	3.2	<0.002	0.07	0.18	0.8	<1	<0.2	57.9	0.13	<0.05	0.73	0.026	0.02
403732		340	1.3	2.0	<0.002	0.06	0.19	0.5	1	<0.2	49.8	0.09	<0.05	0.33	0.019	<0.02
403733		470	1.8	3.6	<0.002	0.31	0.19	0.8	1	<0.2	43.7	0.12	0.06	0.57	0.025	0.02
403734		330	1.5	4.6	<0.002	0.40	0.16	0.5	1	<0.2	23.2	0.08	0.07	0.42	0.020	0.02
403735		220	1.2	2.5	<0.002	0.09	0.10	0.3	1	<0.2	37.1	0.05	<0.05	0.18	0.010	<0.02
403736		380	1.5	1.9	<0.002	0.12	0.10	0.3	<1	<0.2	21.5	0.05	<0.05	0.19	0.009	<0.02
403737		390	1.6	3.8	<0.002	0.30	0.15	0.5	1	<0.2	69.1	0.07	<0.05	0.26	0.014	<0.02
403738		530	2.8	9.2	<0.002	0.49	0.23	1.2	1	0.2	119.5	0.14	<0.05	0.49	0.033	0.04
403739		1150	14.2	41.1	<0.002	0.02	1.02	21.6	1	1.8	356	1.14	<0.05	5.03	0.943	0.18
403740		450	1.3	5.3	<0.002	0.19	0.16	1.2	<1	<0.2	35.6	0.16	<0.05	0.65	0.046	0.02
403741		560	1.6	2.8	<0.002	0.25	0.14	1.4	1	<0.2	38.2	0.15	0.05	0.58	0.049	<0.02
403742		520	1.1	1.9	<0.002	0.19	0.12	1.9	1	0.2	28.1	0.19	<0.05	0.85	0.070	<0.02
403743		600	2.3	4.9	0.002	1.15	0.13	3.0	1	0.3	68.9	0.39	0.07	1.36	0.113	0.04
403744		480	1.0	1.2	<0.002	0.11	0.10	1.9	1	0.2	18.2	0.26	<0.05	0.77	0.079	<0.02
403745		410	1.6	1.2	<0.002	0.14	0.10	1.9	1	0.2	30.6	0.31	<0.05	0.79	0.096	0.02
403746		70	<0.5	0.5	<0.002	0.01	<0.05	0.3	1	<0.2	87.6	<0.05	<0.05	0.08	0.006	<0.02
403747		680	1.9	3.2	<0.002	0.18	0.20	3.9	1	0.4	19.3	0.56	0.06	1.40	0.209	0.05
403748		440	2.4	6.3	<0.002	0.16	0.15	2.8	1	0.2	89.4	0.33	<0.05	0.86	0.115	0.03
403749		410	2.4	9.0	<0.002	0.46	0.13	2.8	1	0.3	81.7	0.26	0.05	1.16	0.099	0.07
403750		360	2.3	3.1	<0.002	0.70	0.14	2.1	1	0.2	81.9	0.13	<0.05	0.49	0.062	0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
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Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18189331**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
403731		0.2	19	0.2	5.4	9	8.4
403732		0.1	14	0.2	5.9	9	6.8
403733		0.1	19	0.4	5.9	12	7.7
403734		0.1	13	0.2	4.3	16	6.5
403735		0.1	13	0.5	5.1	15	4.1
403736		0.2	12	0.4	5.6	6	4.1
403737		0.2	15	0.5	6.2	15	4.5
403738		0.2	33	0.4	8.0	33	7.8
403739		1.1	149	2.2	20.2	130	154.5
403740		0.3	28	0.6	5.1	18	14.6
403741		0.4	28	0.4	6.0	14	13.6
403742		0.7	37	0.4	6.4	19	18.5
403743		1.0	63	0.4	7.2	31	37.9
403744		0.5	39	0.2	5.6	17	21.6
403745		0.4	48	0.4	6.4	12	26.1
403746		0.1	2	0.3	2.3	3	1.9
403747		0.9	121	0.3	9.7	23	46.2
403748		0.6	73	0.2	6.8	24	29.2
403749		0.8	66	0.3	5.5	22	25.9
403750		0.4	46	0.3	4.4	14	14.4



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189331**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
 29-AOUT-2018  
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**CERTIFICAT VO18189333**

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 Bon de commande #: KANDH18-052  
 Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 1-AOUT-2018.  
 Les résultats sont transmis à:

GLENN ASCH  
 SIMON HEBERT  
 LIZ STOCK

KAREN CHIU  
 SIMON HOULE  
 CORPORATIF WEBTRIEVE

PAUL DOBAK  
 LEE SCHOLL

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
**29-AOUT-2018**  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18189333**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457021		4.63	0.002	0.06	7.88	6.5	20	0.36	0.01	6.88	0.06	9.66	43.2	209	0.27	89.1
457022		3.97	0.003	0.06	7.09	15.3	<10	0.33	0.02	6.01	0.07	7.50	52.1	203	0.22	84.5
457023		2.45	0.001	0.08	7.14	16.7	140	0.54	0.03	6.47	0.09	10.10	43.8	177	0.59	117.0
457024		4.12	<0.001	0.01	9.37	8.7	650	2.05	0.01	1.02	<0.02	101.0	14.7	68	2.20	12.3
457025		4.52	<0.001	<0.01	9.21	14.4	480	2.16	<0.01	0.50	<0.02	91.3	11.4	71	2.39	3.9
457026		4.10	<0.001	0.04	8.86	13.2	540	2.38	0.01	0.46	0.04	94.2	12.9	66	2.69	11.7
457027		3.34	<0.001	0.04	9.30	6.1	620	2.39	0.02	1.08	0.04	100.5	11.0	69	3.52	12.9
457028		3.29	<0.001	0.06	8.95	9.3	700	2.34	0.09	0.55	0.07	84.9	13.8	65	4.31	28.1
457029		0.06	2.57	0.42	6.91	11.5	320	1.28	0.16	4.90	0.09	42.7	53.7	318	0.68	78.9
457030		4.75	0.002	0.22	8.01	4.3	460	1.97	0.19	1.57	0.11	60.4	15.6	76	4.08	73.0
457031		2.88	0.002	0.15	9.07	1.6	450	2.17	0.14	0.96	0.10	63.9	14.8	85	5.52	71.0
457032		3.31	<0.001	0.06	6.29	4.8	360	1.81	0.10	0.37	0.31	43.3	12.5	67	2.65	23.6
457033		4.33	0.022	1.64	4.65	42.5	60	2.07	0.37	1.32	8.25	50.4	31.2	68	2.62	274
457034		2.43	0.012	0.53	2.27	15.7	90	1.45	0.13	1.98	3.19	48.8	14.9	47	1.18	94.2
457035		3.45	0.027	0.76	5.03	54.6	170	2.62	0.34	1.14	3.48	56.0	19.5	72	3.28	74.5
457036		0.28	0.002	0.02	0.12	0.3	30	0.07	0.37	35.2	0.06	1.45	0.8	2	0.05	2.5
457037		2.85	0.021	0.87	5.36	106.5	100	2.42	0.26	1.48	4.32	51.4	20.1	72	3.33	92.8
457038		3.84	0.012	0.82	7.11	162.0	70	2.61	0.25	2.02	5.51	54.5	22.3	94	4.67	190.5
457039		3.78	0.047	2.56	3.91	324	80	1.46	0.66	3.45	14.60	64.7	21.5	110	3.16	511
457040		4.69	0.055	2.27	5.29	322	30	1.80	0.53	1.06	8.18	60.3	23.7	113	3.68	243



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189333**

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457021		7.71	17.25	0.07	0.9	0.007	0.062	0.11	3.6	39.7	4.31	1300	0.23	2.54	3.0	118.5
457022		8.35	15.20	0.13	0.7	0.018	0.062	0.02	2.6	50.5	5.40	1310	0.19	1.39	2.2	199.0
457023		9.32	17.65	0.12	0.7	0.021	0.079	0.59	3.7	44.2	4.17	1530	0.29	0.84	2.7	88.5
457024		4.00	23.0	0.17	3.3	0.021	0.016	2.55	49.2	30.5	1.84	585	0.26	2.67	4.7	36.4
457025		3.18	22.1	0.15	3.5	<0.005	0.013	2.85	45.2	33.1	1.76	422	0.18	2.44	3.7	35.3
457026		3.50	22.4	0.22	3.4	<0.005	0.028	3.12	48.3	38.3	1.67	420	0.70	1.70	2.6	37.7
457027		3.59	23.8	0.24	3.7	0.012	0.038	3.85	51.4	36.9	1.54	716	0.24	1.30	3.0	34.1
457028		4.05	21.9	0.21	4.0	0.015	0.046	4.04	43.3	34.8	1.22	392	0.43	0.83	3.9	36.4
457029		7.60	18.15	0.17	3.4	0.037	0.057	1.01	20.9	10.1	5.62	1070	3.15	2.03	28.3	345
457030		6.20	20.5	0.18	2.5	0.025	0.049	3.35	33.0	41.2	1.61	811	1.63	0.73	2.2	46.0
457031		5.76	23.0	0.20	2.4	0.027	0.053	4.36	33.4	38.6	1.25	641	1.61	0.25	2.7	46.4
457032		10.75	16.20	0.15	2.2	0.021	0.035	2.87	21.4	23.4	1.62	6030	1.02	0.13	2.5	28.7
457033		18.00	14.45	0.21	2.5	0.430	0.127	2.15	27.6	32.8	0.95	777	35.7	0.04	4.5	142.5
457034		6.53	8.37	0.15	1.8	0.285	0.054	0.97	24.3	17.9	0.93	760	18.50	0.03	5.4	67.8
457035		7.82	14.40	0.16	4.2	0.452	0.065	2.27	29.8	31.5	0.81	416	13.65	0.33	5.2	79.3
457036		0.19	0.34	0.05	0.1	<0.005	0.005	0.04	1.3	1.2	1.16	93	0.32	0.03	0.3	0.9
457037		9.74	14.95	0.17	3.1	0.435	0.056	2.43	28.3	31.4	1.04	573	26.2	0.16	5.8	102.0
457038		11.15	18.25	0.20	3.4	0.579	0.096	3.08	32.1	35.3	1.22	346	23.3	0.16	3.2	149.0
457039		11.35	10.90	0.28	3.0	1.710	0.106	1.79	41.5	23.1	1.61	543	130.0	0.07	4.8	379
457040		15.95	14.45	0.30	2.3	1.750	0.088	2.42	37.4	20.8	0.58	128	88.8	0.12	7.0	309





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Page: 2 - C  
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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457021		410	1.2	3.3	0.002	0.06	0.61	39.8	1	0.6	97.8	0.18	<0.05	0.32	0.592	0.04
457022		330	1.5	0.7	0.003	0.06	0.45	32.4	<1	0.5	66.4	0.14	<0.05	0.25	0.518	0.02
457023		450	3.0	18.1	0.002	0.15	0.47	43.8	1	0.7	74.4	0.18	<0.05	0.33	0.665	0.22
457024		430	2.4	79.8	<0.002	0.24	0.34	14.6	1	0.5	43.2	0.31	<0.05	17.75	0.191	0.58
457025		430	3.7	86.4	<0.002	0.06	0.30	13.5	<1	0.3	39.1	0.25	<0.05	15.45	0.164	0.61
457026		380	8.1	101.0	<0.002	0.14	0.21	12.3	1	0.5	40.2	0.19	<0.05	14.60	0.137	0.71
457027		370	4.4	132.0	<0.002	0.37	0.24	13.5	1	1.8	63.2	0.21	<0.05	15.70	0.146	1.01
457028		360	6.0	148.5	<0.002	0.40	0.23	10.8	1	1.5	39.4	0.24	0.13	14.50	0.173	1.13
457029		1880	6.0	31.8	<0.002	0.04	0.35	20.1	1	1.4	487	1.60	0.09	2.70	1.100	0.06
457030		990	15.0	134.5	0.002	1.40	0.47	12.0	2	1.7	86.2	0.14	0.14	11.05	0.118	1.30
457031		220	8.8	161.0	0.002	1.44	0.40	12.4	2	1.7	52.8	0.18	0.10	12.15	0.140	1.93
457032		280	2.9	100.0	<0.002	0.47	0.19	8.4	1	1.1	25.9	0.15	<0.05	7.10	0.105	2.05
457033		680	30.7	71.0	0.030	>10.0	2.81	10.0	9	2.7	36.9	0.28	0.88	3.76	0.110	2.24
457034		1300	14.1	30.0	0.013	3.92	2.11	6.1	4	1.5	44.8	0.28	0.27	1.94	0.109	1.19
457035		390	31.0	63.1	0.015	5.86	4.82	11.4	5	1.9	31.6	0.31	0.58	3.70	0.137	2.64
457036		80	1.3	1.1	<0.002	0.05	0.07	0.3	1	<0.2	86.8	<0.05	<0.05	0.11	0.008	0.03
457037		360	27.5	70.7	0.022	7.86	5.93	10.4	7	1.6	41.6	0.36	0.35	4.07	0.134	3.21
457038		340	21.9	79.0	0.037	>10.0	6.09	14.1	11	1.9	42.5	0.19	0.39	4.61	0.112	5.79
457039		1530	53.2	53.7	0.172	>10.0	17.00	9.3	21	1.4	41.2	0.33	0.44	6.74	0.100	4.59
457040		1030	77.1	64.8	0.126	>10.0	22.8	11.4	20	1.5	25.8	0.47	0.68	5.72	0.145	6.01



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18189333**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457021		0.1	297	0.2	20.1	69	29.9
457022		0.1	263	0.2	16.9	79	24.0
457023		0.2	365	0.3	21.8	92	25.7
457024		2.7	73	0.7	9.7	46	117.0
457025		2.5	71	0.8	7.8	31	123.0
457026		2.4	70	0.9	7.5	55	117.5
457027		2.5	72	1.1	9.3	39	128.5
457028		2.5	71	0.9	8.7	84	143.5
457029		0.6	147	3.4	21.5	107	143.0
457030		3.3	100	1.2	8.2	77	87.7
457031		2.7	137	1.1	7.0	72	79.6
457032		1.6	81	0.7	5.8	134	81.0
457033		14.8	317	1.6	16.1	1440	99.8
457034		15.2	115	1.4	14.5	556	78.4
457035		10.5	135	1.5	12.9	696	161.5
457036		0.3	3	0.1	2.2	9	2.9
457037		13.8	219	1.8	13.3	754	120.5
457038		13.9	384	1.4	12.4	898	128.0
457039		39.3	1820	3.1	29.7	2150	112.5
457040		32.4	1360	2.9	21.9	1350	94.6



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date:  
**29-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189333**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18189334

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Bon de commande #: KANDH18-053

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 1-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189334**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457041		4.16	0.020	0.99	6.43	193.0	60	1.83	0.22	2.71	5.02	54.4	20.6	72	3.32	197.0
457042		4.67	0.025	1.04	6.18	176.0	60	1.50	0.28	2.81	6.35	60.1	21.4	75	3.80	212
457043		4.18	0.047	1.70	3.24	230	60	1.07	0.39	2.53	12.60	45.8	20.2	93	2.78	272
457044		3.11	0.023	0.99	4.78	194.5	60	1.60	0.26	3.55	3.51	45.7	17.8	63	3.25	159.0
457045		2.59	0.001	0.34	2.72	24.9	80	1.40	0.10	4.84	2.04	46.9	10.8	45	2.21	44.1
457046		3.79	0.009	0.24	1.47	20.5	80	1.37	0.18	4.15	0.90	21.2	8.6	37	0.87	50.5
457047		4.71	0.001	0.07	5.72	11.6	620	1.48	0.08	2.58	0.10	22.0	35.3	107	7.97	72.1
457048		4.28	0.002	0.06	6.76	26.1	250	0.47	0.01	4.00	0.10	8.75	51.6	128	5.50	139.5
457049		0.06	7.71	1.22	6.06	32.2	310	1.08	0.48	2.96	0.10	29.3	41.6	312	0.64	105.5
457050		4.30	0.004	0.08	6.33	21.2	110	0.41	0.01	5.54	0.14	8.64	47.9	119	6.77	123.0
457051		2.77	0.001	0.12	6.66	37.7	160	0.36	0.03	5.37	0.30	8.95	49.3	126	3.58	116.0
457052		3.48	<0.001	0.14	7.59	13.2	900	1.47	0.11	1.63	0.21	51.0	14.6	74	5.91	102.0
457053		4.39	0.006	0.13	7.40	0.7	680	1.77	0.08	2.03	0.48	47.9	12.7	77	8.29	106.0
457054		4.14	0.001	0.16	6.36	1.2	530	1.71	0.08	1.30	0.87	44.3	13.9	72	6.33	64.7
457055		4.19	0.003	0.28	8.25	0.9	640	2.45	0.18	0.16	1.37	56.7	18.4	86	9.46	59.1
457056		0.24	0.003	0.03	0.21	<0.2	30	0.06	0.01	33.7	0.04	1.92	1.0	4	0.17	2.2
457057		4.29	0.008	0.41	7.56	0.6	560	2.57	0.22	0.22	1.94	55.9	18.4	87	8.10	48.1
457058		4.26	0.006	0.31	7.81	0.7	490	2.39	0.14	0.24	0.59	46.5	19.5	91	9.95	44.6
457059		4.41	0.009	0.33	8.39	0.7	530	2.25	0.19	0.48	2.43	50.6	15.2	83	7.15	57.2
457060		4.40	0.009	0.32	8.36	0.5	440	2.63	0.18	0.13	1.66	50.2	17.8	88	8.55	56.2



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189334**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457041		13.00	16.50	0.20	3.0	0.689	0.085	2.76	30.8	22.4	1.34	330	25.4	0.20	6.9	153.0
457042		11.70	15.90	0.21	3.4	0.781	0.087	2.69	34.5	24.6	1.44	349	48.0	0.16	5.8	181.0
457043		11.65	8.97	0.22	1.8	1.385	0.125	1.41	30.8	19.2	1.19	432	148.5	0.06	3.8	349
457044		13.05	12.35	0.18	2.2	0.667	0.061	2.01	26.5	26.0	1.76	555	40.2	0.10	5.8	151.5
457045		6.01	8.72	0.12	2.5	0.094	0.064	0.96	25.2	17.6	2.24	1160	14.65	0.06	6.9	37.8
457046		6.21	5.42	0.08	1.0	0.173	0.068	0.68	10.7	15.1	1.84	1240	12.30	0.03	4.5	30.7
457047		12.55	15.05	0.13	1.4	0.023	0.055	2.06	9.7	44.2	3.45	1880	1.64	0.16	5.8	71.3
457048		9.29	16.30	0.11	1.0	0.038	0.075	1.18	3.1	51.3	4.97	836	0.29	1.00	2.1	84.7
457049		5.57	14.95	0.12	2.4	0.165	0.046	1.07	13.6	15.9	3.99	740	6.35	1.20	15.1	240
457050		8.42	15.60	0.11	1.1	0.033	0.072	1.27	3.0	47.3	4.63	1060	0.29	1.23	1.5	77.1
457051		9.17	16.45	0.12	1.0	0.017	0.071	0.94	3.1	50.1	5.02	1100	0.52	0.68	1.4	81.6
457052		4.39	19.70	0.16	1.8	0.014	0.037	4.20	26.9	37.2	1.28	449	5.99	0.33	6.0	49.8
457053		5.33	18.80	0.17	1.9	0.040	0.032	4.55	25.1	40.4	1.40	1010	5.08	0.12	6.0	43.2
457054		5.45	16.00	0.14	1.5	0.067	0.030	3.86	23.1	36.2	1.26	986	5.04	0.05	4.8	56.6
457055		7.18	21.0	0.18	2.4	0.074	0.051	4.80	29.3	47.2	1.31	448	6.97	0.05	7.4	52.9
457056		0.21	0.59	0.07	0.1	<0.005	0.005	0.11	1.6	1.9	1.28	93	0.18	0.04	0.2	1.4
457057		7.52	20.3	0.20	2.3	0.079	0.056	4.66	28.7	42.2	1.18	494	4.83	0.05	9.6	51.1
457058		7.10	20.2	0.16	2.2	0.059	0.055	4.51	23.8	45.2	1.30	482	7.55	0.05	7.4	50.5
457059		6.25	21.6	0.17	2.3	0.107	0.051	4.83	26.1	45.2	1.19	373	4.77	0.05	6.6	47.1
457060		9.60	21.5	0.17	2.5	0.073	0.044	4.63	26.5	52.6	1.70	613	5.35	0.05	6.9	54.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18189334**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457041		210	33.2	66.5	0.026	>10.0	9.63	11.8	11	1.7	54.4	0.46	0.34	4.79	0.150	5.46
457042		480	38.4	70.7	0.054	>10.0	10.40	12.5	12	1.6	47.6	0.39	0.49	6.41	0.147	5.67
457043		1070	50.9	44.4	0.140	>10.0	14.05	7.9	16	1.2	35.2	0.26	0.50	4.10	0.082	3.89
457044		390	36.6	53.1	0.044	>10.0	9.63	9.3	10	1.2	57.0	0.37	0.36	4.09	0.109	4.52
457045		670	5.4	26.5	0.013	2.93	0.99	7.2	2	0.8	55.0	0.40	0.18	2.31	0.125	1.94
457046		240	17.4	20.3	0.008	3.40	2.52	3.7	2	1.3	37.7	0.28	0.31	1.53	0.067	0.97
457047		350	3.5	53.3	0.003	0.94	0.25	24.7	2	0.8	63.7	0.38	0.08	2.45	0.462	0.45
457048		380	3.6	34.5	0.003	0.07	0.17	42.8	1	0.4	110.0	0.14	<0.05	0.25	0.559	0.25
457049		1090	10.4	37.9	<0.002	0.09	0.76	18.8	1	1.0	280	0.88	0.28	2.28	0.688	0.20
457050		360	4.5	41.1	0.003	0.08	0.13	42.3	1	0.4	148.5	0.11	<0.05	0.23	0.566	0.32
457051		380	5.1	25.5	0.004	0.11	0.15	43.5	1	0.4	137.0	0.10	<0.05	0.23	0.489	0.18
457052		160	10.2	85.1	0.014	0.26	0.32	10.0	1	1.1	52.1	0.50	0.05	8.96	0.238	0.42
457053		200	6.7	109.5	0.011	0.61	0.53	10.2	2	1.1	52.2	0.49	<0.05	8.75	0.240	0.61
457054		130	7.5	91.3	0.011	0.96	0.65	8.2	2	1.1	49.4	0.39	0.05	7.63	0.194	0.47
457055		190	12.4	118.0	0.010	1.87	1.19	12.0	3	1.6	16.3	0.57	0.12	9.56	0.293	0.74
457056		60	1.4	2.9	<0.002	0.03	0.06	0.4	2	<0.2	85.6	<0.05	<0.05	0.23	0.010	0.03
457057		190	16.9	119.0	0.008	2.44	1.44	11.4	4	1.5	19.5	0.72	0.12	9.09	0.301	0.73
457058		210	11.7	120.5	0.010	1.83	1.13	15.0	2	1.4	16.8	0.57	0.09	7.68	0.310	0.85
457059		140	17.2	117.0	0.012	1.93	1.36	11.1	3	1.6	16.5	0.55	0.13	9.84	0.273	0.78
457060		150	12.0	140.5	0.015	1.97	1.14	11.2	3	1.6	13.4	0.59	0.17	10.65	0.281	0.93



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18189334**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457041		14.9	254	1.2	12.0	941	111.5
457042		21.0	595	1.5	19.4	1070	125.5
457043		50.5	1580	3.3	24.3	2100	71.3
457044		17.9	432	1.4	12.9	659	87.3
457045		5.8	120	1.1	12.2	451	101.5
457046		3.9	80	1.1	5.7	273	44.6
457047		1.5	252	1.0	6.3	62	52.5
457048		0.1	349	0.5	6.2	83	39.8
457049		0.6	144	8.9	14.0	84	97.2
457050		0.1	330	0.1	7.8	73	38.6
457051		0.1	350	0.3	7.6	82	36.0
457052		4.2	230	1.5	6.8	104	62.7
457053		4.6	215	1.6	7.7	150	64.9
457054		4.5	216	1.3	6.0	154	54.5
457055		5.1	253	1.5	7.8	213	83.9
457056		0.2	5	0.1	2.1	7	2.8
457057		4.8	222	1.4	7.5	216	80.4
457058		4.0	242	1.5	7.2	183	76.6
457059		4.8	253	1.9	6.3	327	80.4
457060		4.5	242	1.7	5.6	284	84.6





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date:  
**29-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189334**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
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## CERTIFICAT VO18189335

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Bon de commande #: KANDH18-054

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 1-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18189335**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457061		4.39	0.021	0.37	8.48	0.9	550	2.69	0.19	0.17	2.91	56.2	16.3	83	7.91	66.7
457062		4.40	0.010	0.30	7.99	31.5	390	1.45	0.08	2.35	1.06	27.5	36.7	130	16.60	113.0
457063		4.22	0.002	0.13	7.75	24.2	390	1.75	0.04	1.02	0.32	33.9	30.9	111	10.25	47.1
457064		4.29	0.004	0.30	8.51	0.7	470	2.00	0.21	0.59	5.59	51.4	15.3	86	12.35	39.4
457065		3.96	0.006	0.25	8.50	0.5	460	1.74	0.17	0.34	2.37	51.7	15.6	86	11.70	46.1
457066		4.53	<0.001	0.05	7.82	9.3	420	1.64	0.02	0.97	0.23	52.4	16.9	88	5.00	33.7
457067		4.60	0.002	0.07	9.74	1.6	580	2.61	0.11	0.07	0.04	77.8	11.5	83	6.71	32.4
457068		4.49	0.003	0.08	9.95	2.3	530	2.58	0.15	0.08	0.02	74.0	12.8	80	6.41	44.1
457069		0.06	0.665	0.19	6.93	17.7	320	1.29	0.12	4.28	0.19	43.7	40.8	167	1.75	52.0
457070		4.76	0.001	0.12	10.10	0.6	480	2.34	0.21	0.10	0.04	80.5	12.4	81	6.62	53.2
457071		4.68	0.002	0.14	10.20	0.6	480	2.10	0.20	0.06	0.06	68.7	11.7	85	7.25	82.8
457072		4.65	<0.001	0.11	10.05	5.9	490	2.07	0.23	0.10	0.03	75.1	14.2	81	6.70	51.2
457073		4.54	<0.001	0.10	10.00	0.3	500	2.15	0.19	0.12	0.04	77.7	11.0	80	6.55	28.5
457074		4.52	<0.001	0.10	9.81	0.3	510	2.18	0.17	0.23	0.06	78.1	10.9	81	6.59	32.7
457075		4.57	0.002	0.08	9.91	1.7	500	2.14	0.14	0.09	0.03	74.8	11.3	80	6.29	28.5
457076		0.30	0.004	0.02	0.28	<0.2	30	0.10	0.01	33.3	0.02	2.73	0.9	5	0.16	2.1
457077		4.59	<0.001	0.16	9.49	1.3	470	2.25	0.62	0.14	0.02	71.1	12.6	86	6.45	34.6
457078		2.33	0.001	0.07	9.89	16.8	440	2.23	0.21	0.08	<0.02	74.8	11.4	83	5.91	32.1
457079		3.43	<0.001	0.41	9.20	5.3	440	2.44	0.67	0.73	0.15	89.8	12.1	80	6.37	39.5
457080		4.61	0.001	0.07	9.35	0.6	420	2.31	0.14	0.13	<0.02	71.2	11.1	82	7.41	27.2



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
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**CERTIFICAT D'ANALYSE VO18189335**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457061		6.68	21.5	0.19	2.4	0.092	0.052	5.21	28.6	44.0	1.16	410	4.44	0.08	6.5	50.2
457062		10.00	19.10	0.19	1.9	0.032	0.074	4.62	13.6	62.1	2.80	1120	1.69	0.07	5.0	82.9
457063		9.16	19.30	0.19	1.8	0.028	0.063	4.06	17.8	56.3	2.18	819	2.95	0.06	5.6	71.2
457064		7.26	21.3	0.22	2.2	0.160	0.059	5.39	27.3	54.8	1.61	516	5.68	0.05	7.4	51.0
457065		7.52	21.8	0.23	2.3	0.073	0.064	5.21	27.4	53.5	1.55	405	4.60	0.05	7.4	44.3
457066		6.68	19.40	0.18	2.0	0.011	0.034	3.59	27.6	43.4	1.93	566	2.17	0.04	6.1	51.9
457067		4.47	25.7	0.21	2.6	0.007	0.051	5.03	39.7	43.1	1.06	206	0.81	0.13	8.8	34.1
457068		4.32	26.0	0.22	2.6	0.006	0.050	4.65	39.2	41.8	0.98	180	0.97	0.35	8.9	37.7
457069		7.19	18.35	0.16	3.5	0.016	0.060	0.87	19.6	14.9	2.80	890	2.17	1.70	19.1	135.5
457070		4.47	26.5	0.22	2.7	<0.005	0.053	5.18	43.4	41.0	1.00	171	1.05	0.55	9.1	35.9
457071		4.11	26.8	0.20	2.6	0.017	0.053	5.01	35.5	42.0	0.98	138	2.28	0.51	8.9	40.0
457072		4.93	25.3	0.23	2.6	0.010	0.048	5.06	40.7	39.7	1.11	279	0.83	0.45	8.9	34.9
457073		4.39	25.6	0.24	2.6	0.005	0.042	5.06	41.6	38.6	1.03	211	0.42	0.61	8.8	32.6
457074		4.66	25.3	0.23	2.6	<0.005	0.050	5.01	41.8	38.9	1.04	242	0.60	0.58	8.8	33.7
457075		4.43	25.0	0.21	2.6	<0.005	0.048	4.85	39.3	39.7	1.03	202	0.39	0.41	9.0	32.5
457076		0.21	0.72	0.09	0.1	<0.005	<0.005	0.12	2.1	1.7	1.14	92	0.07	0.05	0.3	1.6
457077		4.52	25.7	0.22	2.8	0.016	0.050	4.69	37.6	40.4	1.02	166	0.76	0.29	8.8	33.7
457078		4.83	26.6	0.22	2.5	0.005	0.048	4.81	40.7	41.8	1.08	152	0.45	0.29	8.8	34.6
457079		4.95	24.4	0.22	2.9	0.024	0.056	4.82	48.0	39.9	1.13	303	1.77	0.54	9.4	37.1
457080		4.67	25.0	0.20	2.5	<0.005	0.052	4.67	37.4	43.4	1.07	179	0.51	0.26	8.5	33.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
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**CERTIFICAT D'ANALYSE VO18189335**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457061		160	29.8	140.5	0.008	2.12	1.46	10.7	4	1.6	23.3	0.53	0.13	10.50	0.268	0.85
457062		330	7.3	173.5	0.006	0.92	0.55	31.7	1	1.1	86.7	0.37	0.06	4.09	0.563	1.27
457063		270	4.1	134.0	0.006	1.07	0.53	23.6	2	2.0	38.4	0.42	0.07	5.36	0.436	0.84
457064		170	24.4	175.5	0.013	1.67	1.04	12.0	2	1.9	26.8	0.57	0.08	9.30	0.299	1.02
457065		170	10.9	173.0	0.011	1.77	1.20	12.1	2	1.7	23.1	0.58	0.11	9.30	0.302	0.97
457066		200	5.7	110.0	0.005	0.33	0.27	14.5	1	1.0	44.4	0.48	<0.05	8.49	0.316	0.50
457067		230	7.5	143.0	0.002	0.43	0.49	11.0	1	2.1	25.7	0.68	0.05	15.25	0.334	0.69
457068		230	12.7	143.0	0.002	0.53	0.61	11.1	1	2.1	34.3	0.67	0.05	15.45	0.333	0.62
457069		1110	13.0	29.9	<0.002	0.02	0.94	16.9	1	1.7	341	1.11	<0.05	4.36	0.886	0.18
457070		210	18.6	166.0	0.003	0.73	0.70	11.2	2	1.8	39.5	0.70	0.10	16.15	0.337	0.60
457071		200	21.0	149.5	0.003	0.70	0.93	11.6	3	1.8	38.6	0.69	0.08	14.65	0.336	0.60
457072		190	19.3	161.0	0.003	0.49	0.54	10.9	2	1.6	36.0	0.67	0.08	15.65	0.333	0.58
457073		220	20.3	166.5	0.002	0.44	0.55	10.7	1	1.7	39.4	0.66	0.06	15.35	0.325	0.57
457074		230	19.0	161.0	0.002	0.60	0.61	10.4	1	1.7	46.0	0.67	0.06	15.65	0.330	0.55
457075		190	13.6	150.0	0.002	0.36	0.43	10.7	1	1.7	40.0	0.67	<0.05	14.95	0.332	0.55
457076		70	0.8	3.6	<0.002	0.03	0.06	0.5	1	<0.2	83.2	<0.05	<0.05	0.37	0.012	0.02
457077		180	15.7	154.0	<0.002	0.56	0.60	11.2	1	1.9	42.5	0.71	0.37	15.00	0.328	0.62
457078		180	14.3	162.5	<0.002	0.48	7.80	11.5	1	1.8	40.0	0.69	0.06	15.15	0.326	0.60
457079		280	85.2	158.5	0.003	1.13	1.19	11.6	1	1.9	56.5	0.71	0.20	14.65	0.317	0.92
457080		210	9.9	147.0	0.003	0.46	0.53	11.0	1	1.7	39.0	0.67	<0.05	14.10	0.315	0.70



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18189335**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457061		4.6	236	2.2	5.9	281	82.4
457062		1.7	324	1.1	6.3	213	62.8
457063		3.4	307	1.6	5.4	217	55.9
457064		5.8	291	1.4	6.9	471	70.1
457065		5.3	275	1.3	6.6	285	75.1
457066		2.8	210	1.1	5.8	160	59.3
457067		2.3	90	1.5	6.8	77	79.5
457068		2.3	88	1.6	6.5	74	81.5
457069		1.0	142	2.0	18.4	127	127.5
457070		2.4	93	1.4	7.3	76	83.7
457071		2.7	116	1.1	7.1	84	82.8
457072		2.2	89	1.2	7.1	90	81.2
457073		2.0	78	1.2	7.5	73	81.4
457074		2.1	79	1.1	7.2	74	80.0
457075		1.9	77	1.3	6.5	75	82.6
457076		0.2	4	0.2	2.1	5	3.4
457077		2.4	95	1.4	6.6	77	83.1
457078		2.2	96	1.4	6.8	80	77.5
457079		2.9	102	1.4	8.6	91	94.5
457080		2.3	96	1.5	6.6	77	77.3



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date:  
**29-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18189335**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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## CERTIFICAT VO18191836

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-034

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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**CERTIFICAT D'ANALYSE VO18191836**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555421		3.19	<0.001	0.07	0.17	2.8	10	0.33	0.01	3.09	0.08	6.16	3.2	12	0.58	35.5
555422		2.52	0.045	0.01	0.16	0.7	10	0.23	0.01	5.24	0.09	8.40	3.0	11	1.68	2.9
555423		2.57	1.450	0.03	0.20	0.5	10	0.38	0.01	6.94	0.12	8.27	3.6	8	1.92	3.3
555424		2.72	0.058	<0.01	0.36	1.3	20	0.62	0.01	3.34	0.02	16.55	5.6	10	2.95	2.1
555425		2.60	<0.001	0.01	0.29	2.5	20	0.92	0.02	4.11	<0.02	9.30	5.7	11	3.01	2.2
555426		0.27	0.001	<0.01	0.05	<0.2	10	0.05	<0.01	35.1	<0.02	0.82	0.5	4	<0.05	1.0
555427		2.30	0.003	0.01	0.42	4.1	20	0.84	0.03	4.97	0.02	10.55	5.6	16	3.12	3.2
555428		2.70	<0.001	0.01	0.37	17.8	10	0.85	0.03	4.03	0.02	7.70	5.3	19	2.30	3.6
555429		2.73	0.001	0.01	0.57	1.5	30	0.92	0.03	4.58	<0.02	12.70	7.8	19	4.26	3.7
555430		2.43	0.003	0.01	0.39	10.7	30	0.70	0.01	2.41	<0.02	11.05	8.4	14	5.37	2.1
555431		2.73	0.849	0.02	0.33	1.1	30	0.42	0.01	1.84	0.10	7.37	6.1	8	4.92	5.0
555432		2.91	0.616	0.01	0.12	2.0	10	0.33	0.01	1.20	0.09	9.83	5.2	5	1.95	2.6
555433		2.81	0.013	<0.01	0.18	0.6	20	0.36	<0.01	1.50	0.08	12.80	5.2	3	3.10	1.0
555434		2.81	0.092	<0.01	0.19	0.5	20	0.52	0.01	1.57	0.09	14.70	5.2	5	3.26	2.7
555435		2.79	1.545	0.05	0.18	0.4	20	0.32	0.01	1.67	0.10	7.12	5.0	1	3.15	7.6
555436		2.98	0.003	0.01	0.05	0.2	10	0.47	<0.01	1.28	0.04	6.34	4.5	3	0.96	0.8
555437		2.63	0.024	0.01	0.11	0.2	10	0.36	<0.01	1.24	0.05	4.47	3.7	6	1.07	1.9
555438		2.60	1.755	0.37	0.24	0.6	30	0.22	0.01	1.28	0.10	3.26	3.3	5	4.37	6.1
555439		0.07	2.55	0.40	6.80	11.3	320	1.25	0.15	4.87	0.07	43.1	51.7	314	0.66	81.1
555440		2.73	0.727	0.05	0.49	2.4	50	0.34	0.01	1.84	0.13	3.86	3.9	5	9.02	7.2



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**CERTIFICAT D'ANALYSE VO18191836**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555421		14.10	1.11	0.07	0.1	0.007	0.005	0.05	3.6	1.8	2.29	4140	1.15	0.01	1.1	11.9
555422		16.80	0.76	0.09	0.1	<0.005	0.005	0.06	5.2	1.3	3.62	5030	0.27	0.02	1.0	2.6
555423		18.15	1.15	0.08	0.1	0.020	0.005	0.06	5.2	1.5	4.05	5180	0.27	0.02	0.9	2.9
555424		22.4	4.10	0.10	0.4	<0.005	0.008	0.09	8.9	1.3	3.35	6100	0.40	0.03	5.2	3.6
555425		22.8	1.34	0.08	0.1	0.006	0.007	0.08	5.6	1.0	3.54	7070	0.41	0.04	1.6	4.2
555426		0.19	0.14	0.05	<0.1	<0.005	<0.005	0.01	1.1	1.0	1.56	123	<0.05	0.02	0.1	<0.2
555427		20.8	2.10	0.08	0.2	0.008	0.007	0.09	6.5	1.2	3.57	9160	1.00	0.04	1.9	6.7
555428		19.25	1.96	0.07	0.2	<0.005	0.007	0.07	4.8	1.0	3.14	8870	0.79	0.03	1.6	6.3
555429		23.7	2.85	0.09	0.3	<0.005	0.011	0.13	7.2	1.5	3.87	11100	1.12	0.05	2.8	8.4
555430		23.7	1.70	0.09	0.2	<0.005	0.009	0.17	6.3	1.2	3.27	11750	1.05	0.06	2.4	6.3
555431		24.5	1.47	0.10	0.2	0.007	0.006	0.15	4.6	0.9	3.78	7430	0.18	0.06	1.6	3.7
555432		26.0	0.61	0.09	0.1	0.008	<0.005	0.06	7.5	0.6	3.91	9080	0.11	0.02	0.8	2.8
555433		32.1	0.89	0.10	0.1	<0.005	<0.005	0.09	9.6	0.7	4.79	10950	0.05	0.04	1.1	1.8
555434		28.8	0.85	0.10	0.1	0.007	<0.005	0.10	11.4	0.6	4.34	9030	0.08	0.04	1.7	2.5
555435		30.9	0.72	0.09	<0.1	0.343	<0.005	0.10	4.9	0.7	4.64	6690	<0.05	0.04	0.6	1.2
555436		29.6	0.37	0.10	<0.1	<0.005	<0.005	0.03	4.5	0.4	4.52	6170	0.08	0.01	0.3	1.0
555437		24.4	0.43	0.08	<0.1	<0.005	<0.005	0.05	3.1	0.5	3.73	5680	0.09	0.02	0.5	1.1
555438		23.3	0.85	0.08	<0.1	0.011	<0.005	0.13	2.2	0.6	3.51	6590	0.09	0.05	0.3	1.0
555439		7.45	16.75	0.10	3.1	0.061	0.064	1.00	22.2	9.2	5.54	1040	3.02	1.99	27.7	351
555440		24.8	1.59	0.08	<0.1	0.102	0.005	0.26	2.5	1.0	3.82	6990	0.06	0.10	0.6	1.4



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**CERTIFICAT D'ANALYSE VO18191836**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555421		180	1.8	1.6	0.002	1.52	0.21	0.7	1	<0.2	42.6	0.06	0.07	0.15	0.007	0.04
555422		160	1.2	2.7	<0.002	0.26	0.18	0.3	1	<0.2	74.8	0.07	<0.05	0.23	0.008	0.02
555423		160	1.7	2.7	<0.002	0.28	0.11	0.4	1	<0.2	106.5	0.05	<0.05	0.15	0.008	<0.02
555424		260	1.0	3.2	<0.002	0.20	0.15	0.7	1	<0.2	40.0	0.34	<0.05	0.62	0.016	<0.02
555425		290	1.2	2.9	<0.002	0.19	0.17	0.8	1	<0.2	43.4	0.07	<0.05	0.26	0.016	<0.02
555426		70	<0.5	0.2	<0.002	<0.01	<0.05	0.2	2	<0.2	83.0	<0.05	<0.05	0.05	<0.005	<0.02
555427		390	1.6	3.1	<0.002	0.21	0.18	1.2	1	<0.2	47.6	0.09	<0.05	0.40	0.025	<0.02
555428		310	1.7	2.3	<0.002	0.24	0.22	1.1	1	<0.2	39.5	0.08	<0.05	0.36	0.024	<0.02
555429		430	1.7	4.5	<0.002	0.25	0.25	1.6	1	<0.2	48.9	0.14	<0.05	0.55	0.039	<0.02
555430		360	1.0	6.3	<0.002	0.15	0.21	1.2	1	<0.2	29.1	0.10	<0.05	0.42	0.030	0.02
555431		180	1.3	5.3	<0.002	0.39	0.13	0.6	1	<0.2	34.6	0.09	<0.05	0.26	0.019	<0.02
555432		200	1.0	2.1	<0.002	0.21	0.09	0.3	1	<0.2	19.7	0.05	<0.05	0.16	0.005	<0.02
555433		190	0.7	3.2	<0.002	0.04	0.11	0.3	<1	<0.2	25.4	<0.05	<0.05	0.16	<0.005	<0.02
555434		150	1.2	3.4	<0.002	0.23	0.15	0.4	<1	<0.2	28.6	0.07	<0.05	0.26	0.011	<0.02
555435		130	1.1	3.4	<0.002	0.52	0.09	0.1	1	<0.2	33.7	<0.05	<0.05	0.06	<0.005	<0.02
555436		140	0.6	0.9	<0.002	0.04	0.08	0.1	<1	<0.2	19.0	<0.05	<0.05	0.04	<0.005	<0.02
555437		30	0.5	1.4	<0.002	0.14	0.11	0.1	<1	<0.2	19.7	<0.05	<0.05	0.05	<0.005	0.02
555438		50	1.3	4.3	<0.002	0.45	0.19	0.1	1	<0.2	25.0	<0.05	<0.05	0.03	<0.005	<0.02
555439		1880	4.7	31.6	<0.002	0.04	0.32	20.5	1	1.3	480	1.56	0.07	2.49	1.055	0.06
555440		20	1.0	9.1	<0.002	0.56	0.18	0.2	1	<0.2	49.2	0.05	0.05	0.03	<0.005	<0.02



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**CERTIFICAT D'ANALYSE VO18191836**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555421		0.5	22	0.1	3.7	25	4.5
555422		0.2	13	0.2	5.4	15	4.5
555423		0.2	16	0.1	6.2	15	4.1
555424		0.3	27	0.2	6.7	9	17.9
555425		0.4	27	0.2	7.9	7	6.8
555426		0.1	1	<0.1	2.0	3	1.6
555427		0.5	32	0.2	7.9	10	9.9
555428		0.4	32	0.2	6.7	7	8.2
555429		0.6	46	0.2	8.2	7	14.2
555430		0.4	29	0.2	6.7	6	10.5
555431		0.2	21	0.2	5.2	19	7.6
555432		0.1	11	0.1	5.2	18	5.0
555433		0.1	23	0.1	6.2	14	5.3
555434		0.1	16	0.2	6.1	22	5.4
555435		0.1	9	0.1	5.5	23	2.9
555436		<0.1	10	0.1	5.2	11	1.7
555437		0.1	8	0.1	3.8	13	2.3
555438		<0.1	12	0.1	3.8	28	1.1
555439		0.6	147	3.0	21.2	106	140.0
555440		<0.1	19	0.1	5.4	38	2.0



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 Finalisée date:  
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<b>CERTIFICAT D'ANALYSE VO18191836</b>
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### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada			
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP21	Hg-MS42	ME-MS61	



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## CERTIFICAT VO18191842

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-033

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

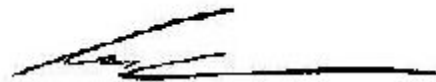
CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18191842**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555401		2.38	0.001	0.05	0.13	7.0	<10	0.52	0.02	2.14	0.03	8.35	2.1	11	0.05	15.2
555402		2.52	0.002	0.07	0.13	0.5	<10	0.13	0.02	2.44	0.06	6.53	3.5	9	<0.05	33.1
555403		2.48	0.001	<0.01	0.16	4.8	<10	0.30	0.01	6.67	0.04	8.00	4.4	7	<0.05	1.6
555404		2.54	0.007	0.01	0.19	8.4	<10	0.32	<0.01	3.93	0.03	9.56	5.3	8	<0.05	1.3
555405		2.47	0.003	0.08	0.49	1.8	<10	0.26	0.02	3.28	0.03	10.50	7.9	13	<0.05	12.2
555406		0.30	0.002	<0.01	0.18	<0.2	20	0.08	0.01	32.7	<0.02	0.86	0.5	3	<0.05	1.3
555407		2.50	0.038	0.02	0.53	0.3	<10	0.32	0.03	1.91	0.05	15.65	3.8	14	<0.05	10.8
555408		2.51	<0.001	0.01	0.27	0.4	<10	0.63	0.01	2.36	0.03	11.10	3.0	10	<0.05	3.4
555409		2.58	0.205	0.02	0.27	2.8	<10	0.34	0.02	2.71	0.03	11.70	4.1	8	<0.05	6.0
555410		2.62	0.087	0.02	0.42	0.6	<10	0.37	0.03	2.25	0.05	14.05	4.2	12	<0.05	7.8
555411		2.55	0.058	0.02	0.29	114.0	<10	0.33	0.02	2.64	0.04	8.75	3.7	8	<0.05	10.0
555412		2.71	0.006	0.13	0.57	70.2	<10	0.24	0.06	3.34	0.09	15.25	5.3	11	0.05	63.1
555413		2.63	0.002	0.10	0.38	0.8	<10	0.25	0.05	5.47	0.10	16.15	3.6	8	0.05	58.8
555414		2.68	0.001	0.01	0.18	0.6	<10	0.31	0.01	5.03	0.03	8.66	3.0	6	<0.05	2.8
555415		2.39	0.002	0.02	0.22	0.3	<10	0.25	0.02	4.01	0.03	6.35	3.4	12	<0.05	4.8
555416		2.55	0.016	0.03	0.15	2.4	<10	0.30	0.01	7.70	0.05	9.46	4.2	10	<0.05	5.3
555417		2.52	<0.001	0.02	0.12	3.1	10	0.16	0.01	2.26	0.03	5.44	2.6	8	<0.05	4.8
555418		2.48	<0.001	0.04	0.20	5.7	<10	0.17	0.02	2.62	0.02	9.64	3.0	16	<0.05	13.9
555419		0.07	0.671	0.19	7.07	19.7	330	1.53	0.13	4.44	0.17	45.9	45.0	184	1.86	55.1
555420		1.09	0.001	0.17	1.13	10.3	40	0.46	0.04	1.23	0.08	36.4	13.6	27	0.43	86.6



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18191842**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555401		17.05	1.00	0.07	0.1	0.009	<0.005	0.01	5.1	4.0	2.91	4740	0.41	0.01	0.7	8.9
555402		18.50	0.75	0.08	0.1	0.005	0.014	0.01	4.0	3.9	2.94	6290	0.70	0.01	0.5	16.0
555403		20.6	0.87	0.08	0.1	<0.005	<0.005	<0.01	5.0	5.0	4.06	8140	0.36	<0.01	1.2	3.3
555404		22.4	0.81	0.08	0.1	<0.005	<0.005	<0.01	5.8	6.3	3.38	9390	0.42	<0.01	1.5	4.4
555405		19.65	2.53	0.08	0.2	0.007	0.007	<0.01	6.5	10.3	2.93	7650	0.59	<0.01	1.0	10.3
555406		0.19	0.41	<0.05	0.1	<0.005	<0.005	0.01	1.1	1.0	1.30	113	0.05	0.10	0.2	<0.2
555407		23.4	2.79	0.08	0.2	0.005	0.011	<0.01	10.2	13.8	3.01	9640	0.98	0.01	1.3	5.4
555408		20.5	1.47	0.08	0.1	<0.005	0.005	<0.01	6.7	8.6	3.11	8220	0.42	0.01	0.8	3.0
555409		25.4	1.48	0.09	0.1	<0.005	0.005	<0.01	7.5	9.2	3.56	7730	0.35	0.01	1.1	3.8
555410		23.8	2.25	0.08	0.2	<0.005	0.007	<0.01	9.0	12.7	3.03	6390	0.49	0.01	1.4	4.4
555411		20.5	1.53	0.07	0.1	0.007	0.007	<0.01	5.8	9.5	2.69	6140	0.24	0.01	0.6	4.2
555412		23.5	3.28	0.09	0.2	<0.005	0.021	<0.01	10.0	15.3	3.22	7080	0.46	<0.01	1.0	21.7
555413		21.4	2.62	0.08	0.5	0.006	0.013	<0.01	10.5	11.4	3.47	5720	0.26	<0.01	1.3	24.6
555414		21.6	2.04	0.08	0.1	<0.005	<0.005	<0.01	5.7	6.8	3.70	6210	0.28	<0.01	1.6	2.8
555415		15.55	2.42	0.06	0.1	<0.005	0.007	<0.01	4.2	7.2	2.69	4360	0.45	<0.01	1.3	4.0
555416		18.05	1.23	0.07	0.1	<0.005	0.005	<0.01	6.1	5.8	3.95	5330	0.52	<0.01	0.6	3.6
555417		16.70	1.27	0.08	0.1	0.005	<0.005	<0.01	3.5	3.8	2.91	4500	0.25	<0.01	0.6	2.9
555418		9.49	2.07	0.06	0.1	<0.005	0.006	<0.01	5.7	5.0	1.96	2790	1.22	0.01	1.3	7.8
555419		7.25	18.80	0.10	3.5	0.028	0.064	0.89	23.5	13.8	2.87	928	2.24	1.70	19.5	143.5
555420		13.30	4.74	0.10	1.4	0.015	0.028	0.39	21.2	10.0	1.26	2450	9.66	0.02	9.2	42.9





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
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**CERTIFICAT D'ANALYSE VO18191842**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555401		260	1.0	1.3	<0.002	0.88	0.17	0.2	1	<0.2	29.1	0.08	0.06	0.24	<0.005	<0.02
555402		410	3.4	0.3	<0.002	1.53	0.08	0.2	1	<0.2	28.3	<0.05	0.11	0.20	<0.005	<0.02
555403		280	1.0	0.2	<0.002	0.12	0.07	0.5	1	<0.2	66.8	0.05	<0.05	0.32	0.012	<0.02
555404		350	0.8	0.1	<0.002	0.05	0.09	0.5	1	<0.2	36.3	0.07	<0.05	0.35	0.014	<0.02
555405		290	1.2	0.1	<0.002	1.06	0.16	1.2	1	<0.2	30.3	0.05	0.10	0.43	0.012	<0.02
555406		70	0.5	0.4	<0.002	0.01	0.05	0.6	2	<0.2	80.9	<0.05	<0.05	0.06	0.021	<0.02
555407		350	1.1	0.1	<0.002	0.55	0.08	1.5	1	<0.2	22.3	0.07	0.06	0.47	0.014	<0.02
555408		270	0.8	0.1	<0.002	0.21	0.08	0.7	1	<0.2	24.4	<0.05	<0.05	0.26	0.007	<0.02
555409		280	1.0	0.1	<0.002	0.34	0.16	0.6	1	<0.2	29.1	<0.05	<0.05	0.21	0.007	<0.02
555410		320	1.1	0.1	<0.002	0.46	0.14	0.8	1	<0.2	26.3	0.07	0.05	0.34	0.011	<0.02
555411		280	0.9	<0.1	<0.002	0.59	0.12	0.4	1	<0.2	34.7	<0.05	0.11	0.11	<0.005	<0.02
555412		470	1.9	<0.1	<0.002	2.63	0.17	1.0	2	<0.2	65.1	0.08	0.19	0.35	0.010	<0.02
555413		250	2.2	0.2	<0.002	2.95	0.16	0.6	2	<0.2	92.4	0.15	0.18	0.77	0.008	<0.02
555414		160	0.9	0.1	<0.002	0.31	0.09	0.5	1	<0.2	39.4	0.06	<0.05	0.20	0.006	<0.02
555415		120	1.0	0.1	<0.002	0.43	0.10	0.6	1	<0.2	33.9	0.05	<0.05	0.23	0.007	<0.02
555416		250	1.2	<0.1	<0.002	0.64	0.13	0.5	1	<0.2	66.0	<0.05	<0.05	0.17	0.005	<0.02
555417		160	0.7	0.1	<0.002	0.52	0.10	0.3	1	<0.2	23.2	<0.05	<0.05	0.11	<0.005	<0.02
555418		90	1.5	0.1	<0.002	0.77	0.20	0.6	1	<0.2	25.3	<0.05	0.06	0.13	0.006	<0.02
555419		1140	13.0	40.4	<0.002	0.02	0.92	20.0	1	1.6	345	1.06	0.05	4.45	0.900	0.18
555420		320	3.9	9.8	0.009	4.55	0.82	2.1	3	0.5	29.8	0.52	0.17	2.04	0.062	0.38



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18191842**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555401		0.3	11	0.1	4.0	17	4.4
555402		0.2	10	0.1	3.2	29	2.9
555403		0.1	12	0.1	4.6	16	4.4
555404		0.1	14	0.1	4.4	10	6.7
555405		0.5	36	0.2	4.1	26	8.9
555406		0.1	4	<0.1	2.1	3	2.9
555407		0.8	44	0.1	5.1	30	11.1
555408		0.4	26	0.1	4.6	13	6.9
555409		0.3	26	0.1	5.3	15	5.9
555410		0.5	39	0.2	5.4	21	9.2
555411		0.2	30	0.1	4.4	19	3.0
555412		0.5	39	0.1	5.9	41	10.6
555413		0.5	22	0.1	6.5	29	25.3
555414		0.3	21	0.1	4.8	13	6.8
555415		0.3	28	0.1	3.5	12	6.6
555416		0.2	14	0.1	5.1	14	4.4
555417		0.1	13	0.1	3.3	12	4.0
555418		0.8	37	0.1	3.5	10	7.9
555419		1.1	145	2.1	19.5	129	146.5
555420		4.1	127	0.5	7.5	34	66.1



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191842**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 29-AOUT-2018  
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## CERTIFICAT VO18191847

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Bon de commande #: KANDH18-PRIORITY-032

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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 Finalisée date: 29-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18191847**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403831		2.34	0.002	0.08	0.55	4.0	10	0.56	0.02	1.05	<0.02	13.40	7.5	16	0.19	7.3
403832		2.56	0.002	0.03	0.41	4.8	10	0.53	0.01	2.66	<0.02	11.45	6.6	17	0.21	4.8
403833		2.40	<0.001	0.02	0.22	7.2	10	0.77	0.01	4.89	<0.02	7.49	4.1	9	0.20	2.3
403834		2.54	0.001	0.04	0.56	1.9	10	1.08	0.02	3.41	<0.02	11.05	8.0	16	0.87	7.1
403835		2.57	0.001	0.02	0.56	0.7	10	0.68	0.01	3.40	<0.02	9.77	7.6	24	2.30	6.4
403836		2.55	<0.001	0.02	0.58	0.5	20	0.81	0.01	3.02	0.02	10.20	6.4	20	4.45	5.6
403837		3.15	<0.001	0.05	1.00	0.6	30	0.81	0.02	1.98	0.17	16.95	8.8	25	10.60	9.5
403838		1.09	0.004	0.14	0.47	5.4	<10	0.07	0.03	1.36	0.04	9.04	112.5	17	0.05	83.8
403839		0.07	7.66	1.33	6.08	32.4	310	0.99	0.48	3.00	0.08	28.0	41.7	324	0.63	112.0
403840		2.33	0.004	0.14	0.19	1.0	<10	0.09	0.03	6.14	0.07	5.90	3.8	10	<0.05	86.9
403841		2.48	0.001	0.18	0.10	0.7	<10	0.12	0.03	10.55	0.12	11.40	11.0	7	<0.05	99.3
403842		2.47	0.007	0.34	0.11	0.8	<10	0.09	0.06	6.54	0.10	14.90	9.3	5	<0.05	171.5
403843		2.54	0.002	0.20	0.34	1.2	<10	0.11	0.03	6.15	0.07	12.20	40.0	8	<0.05	100.0
403844		2.80	0.009	0.45	0.29	602	<10	0.12	0.09	2.98	0.07	12.25	16.4	6	<0.05	283
403845		2.60	0.008	0.32	0.39	759	<10	0.15	0.11	3.44	0.07	20.5	4.1	14	<0.05	164.5
403846		0.28	0.002	<0.01	0.05	1.8	10	0.06	<0.01	35.1	<0.02	0.78	0.6	1	<0.05	1.8
403847		2.52	0.007	0.34	0.29	422	<10	0.10	0.08	1.95	0.07	12.80	3.5	10	<0.05	160.0
403848		2.57	0.002	0.23	0.10	48.6	<10	0.09	0.04	6.32	0.11	9.93	8.3	6	<0.05	101.0
403849		2.61	0.005	0.15	0.12	4.9	<10	0.13	0.03	6.79	0.07	22.3	3.3	6	<0.05	55.0
403850		2.74	0.002	0.15	0.10	16.4	<10	0.08	0.05	1.65	0.05	17.10	2.2	4	<0.05	52.3



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 29-AOUT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18191847**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
403831		22.4	2.49	0.09	0.4	0.011	0.013	0.03	7.4	3.2	3.14	11600	0.29	<0.01	4.0	8.5
403832		18.45	1.92	0.08	0.3	0.007	0.008	0.03	6.6	2.8	2.97	9700	0.25	0.01	3.2	6.4
403833		17.60	1.09	0.07	0.2	0.006	<0.005	0.03	4.4	2.5	3.43	9830	0.13	<0.01	1.9	4.0
403834		19.60	2.64	0.08	0.4	0.020	0.009	0.12	6.2	3.8	3.17	11750	0.23	0.01	4.0	9.4
403835		17.20	2.80	0.07	0.3	0.036	0.012	0.14	5.6	2.8	2.85	12450	0.34	0.02	3.3	9.9
403836		15.85	2.75	0.07	0.4	0.028	0.018	0.23	5.8	2.9	2.57	12650	0.28	0.04	3.8	8.7
403837		19.35	4.08	0.09	0.7	0.040	0.020	0.40	9.8	3.1	2.68	17300	0.56	0.09	6.1	13.7
403838		9.72	2.00	0.08	0.1	0.018	0.006	0.01	5.7	9.9	1.09	780	1.26	<0.01	1.0	34.7
403839		5.54	14.40	0.08	2.2	0.166	0.044	1.07	15.5	15.4	4.02	738	5.77	1.20	16.3	250
403840		10.90	1.43	0.06	<0.1	0.013	0.006	0.01	3.8	3.6	2.83	2800	1.17	<0.01	0.6	39.8
403841		13.85	0.89	0.08	0.1	0.013	0.010	<0.01	7.1	2.6	4.66	4940	1.27	<0.01	1.1	47.4
403842		21.0	1.11	0.09	0.1	0.013	0.031	<0.01	9.5	2.3	4.49	6160	1.14	<0.01	0.8	101.0
403843		14.75	2.89	0.08	0.1	0.008	0.020	<0.01	7.1	6.4	3.86	4880	0.45	<0.01	0.8	44.4
403844		27.9	2.39	0.11	0.1	0.022	0.048	<0.01	7.2	4.8	4.63	7780	0.68	<0.01	0.4	134.0
403845		21.0	3.95	0.10	0.3	0.032	0.039	<0.01	13.5	7.2	4.38	7110	0.47	<0.01	0.8	81.6
403846		0.14	0.16	<0.05	<0.1	<0.005	<0.005	0.01	1.1	1.1	1.38	99	<0.05	0.02	0.1	<0.2
403847		21.1	2.77	0.09	0.1	0.027	0.038	<0.01	7.9	4.5	3.83	6420	0.22	<0.01	0.6	85.8
403848		17.65	0.99	0.06	0.1	0.009	0.029	<0.01	5.8	1.9	4.47	5670	0.18	<0.01	0.4	52.5
403849		20.1	1.34	0.07	0.1	0.016	0.027	<0.01	12.4	2.5	5.50	7100	0.16	<0.01	1.3	20.0
403850		23.5	1.20	0.06	0.1	0.009	0.013	<0.01	9.4	1.6	4.25	6830	0.63	<0.01	0.9	19.2



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 29-AOUT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18191847**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403831		490	1.2	1.2	<0.002	0.14	0.07	1.6	1	0.2	9.9	0.25	<0.05	0.62	0.072	<0.02
403832		420	1.3	1.6	<0.002	0.11	0.07	1.2	1	0.5	19.5	0.23	<0.05	0.58	0.055	0.02
403833		330	1.4	1.3	<0.002	0.05	0.08	0.6	1	<0.2	27.7	0.12	<0.05	0.27	0.032	<0.02
403834		400	1.5	4.7	<0.002	0.18	0.07	1.5	1	1.1	21.7	0.28	<0.05	0.59	0.079	0.04
403835		450	1.4	6.1	<0.002	0.12	0.09	1.6	1	<0.2	32.2	0.19	<0.05	0.50	0.075	0.04
403836		430	1.3	10.7	<0.002	0.11	0.08	1.6	1	0.3	37.8	0.24	<0.05	0.56	0.084	0.05
403837		590	1.4	20.8	<0.002	0.31	0.15	2.7	1	0.3	44.5	0.35	<0.05	1.07	0.115	0.06
403838		160	3.4	0.2	<0.002	5.60	0.53	0.7	3	<0.2	18.2	0.06	0.49	0.20	0.006	<0.02
403839		1100	9.2	36.1	<0.002	0.09	0.72	19.2	1	1.0	278	0.86	0.23	2.08	0.669	0.17
403840		120	3.2	0.2	<0.002	3.68	0.44	0.4	1	<0.2	79.0	<0.05	0.26	0.08	<0.005	<0.02
403841		250	3.6	0.2	<0.002	4.13	0.31	0.3	2	0.2	142.5	<0.05	0.25	0.14	<0.005	<0.02
403842		770	4.1	0.1	<0.002	6.64	0.41	0.3	2	<0.2	91.3	<0.05	0.38	0.14	<0.005	<0.02
403843		170	3.0	0.1	<0.002	4.90	0.36	0.7	2	<0.2	79.9	<0.05	0.29	0.15	<0.005	<0.02
403844		340	5.7	<0.1	<0.002	9.61	0.82	0.4	2	<0.2	52.4	<0.05	0.96	0.15	<0.005	<0.02
403845		440	7.4	0.1	<0.002	6.46	1.21	0.7	2	<0.2	63.3	0.10	0.60	0.47	0.007	<0.02
403846		70	<0.5	0.3	<0.002	0.02	<0.05	0.2	2	<0.2	85.1	<0.05	<0.05	0.05	<0.005	<0.02
403847		230	6.8	0.1	<0.002	6.83	0.84	0.4	2	<0.2	39.8	0.05	0.55	0.24	<0.005	<0.02
403848		140	5.0	0.2	<0.002	4.80	0.43	0.3	1	<0.2	86.9	<0.05	0.28	0.15	<0.005	<0.02
403849		270	2.7	0.1	<0.002	2.87	0.30	0.3	1	0.4	65.0	0.06	0.18	0.21	0.005	<0.02
403850		370	1.9	0.1	<0.002	2.74	0.18	0.3	1	<0.2	19.5	0.05	0.20	0.18	<0.005	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 29-AOUT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18191847**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
403831		0.3	40	0.4	5.6	11	20.4
403832		0.3	30	0.2	4.9	8	15.3
403833		0.1	20	0.2	4.5	6	8.6
403834		0.4	44	0.3	5.7	10	20.3
403835		0.4	50	0.2	5.1	11	17.1
403836		0.4	57	0.2	5.1	11	19.5
403837		0.6	77	0.4	5.6	21	32.4
403838		0.7	31	0.1	2.3	34	7.5
403839		0.6	144	8.9	13.8	85	95.4
403840		0.3	18	0.1	3.7	23	4.7
403841		0.3	14	0.1	6.2	25	4.3
403842		0.3	13	0.1	6.2	36	4.0
403843		0.3	25	0.1	4.2	39	4.2
403844		0.3	22	0.1	4.8	56	6.7
403845		0.8	37	0.2	7.0	53	25.2
403846		0.2	1	<0.1	1.9	3	1.2
403847		0.4	27	0.1	4.7	51	12.2
403848		0.3	11	0.1	4.5	37	6.7
403849		0.4	17	0.1	5.2	43	7.5
403850		0.2	15	0.1	3.7	36	6.3





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **29-AOUT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191847**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada								
	<table border="0" style="width: 100%;"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-21</td> <td>LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table border="0" style="width: 100%;"> <tr> <td>Au-ICP21</td> <td>Hg-MS42</td> <td>ME-MS61</td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
26-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18191850

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Bon de commande #: KANDH18-PRIORITY-031

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**26-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191850**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
403811		2.48	0.001	0.02	0.68	6.9	10	0.62	0.02	2.18	<0.02	15.15	7.7	17	0.78	6.4
403812		2.35	<0.001	0.02	0.28	1.4	<10	0.67	0.01	2.49	<0.02	7.09	5.2	15	0.23	3.8
403813		2.46	<0.001	0.02	0.32	2.8	<10	0.34	0.01	2.84	0.02	8.53	6.1	11	0.44	3.6
403814		2.46	<0.001	0.02	0.49	8.1	<10	0.35	0.03	2.80	<0.02	12.90	7.8	14	0.79	5.7
403815		2.25	<0.001	0.03	0.41	8.5	<10	0.31	0.02	2.12	<0.02	9.60	6.8	12	0.37	4.2
403816		2.53	0.001	0.02	0.46	11.8	10	0.34	0.02	1.50	<0.02	12.65	7.4	14	0.40	6.2
403817		2.45	0.001	0.03	0.68	3.4	<10	0.45	0.03	1.48	<0.02	14.05	7.7	19	0.52	7.4
403818		2.88	0.001	0.02	0.87	3.1	10	0.49	0.04	1.60	0.02	17.85	11.1	23	0.47	11.6
403819		0.07	2.56	0.46	6.86	11.9	330	0.95	0.17	4.77	0.07	42.0	55.8	317	0.69	86.2
403820		2.22	0.008	0.07	0.63	10.4	10	0.34	0.02	2.17	0.02	15.00	8.6	19	0.95	7.1
403821		2.43	0.001	0.03	0.64	1.7	10	0.27	0.01	3.33	0.07	15.95	7.0	24	3.50	8.4
403822		2.55	0.002	0.03	0.86	18.2	<10	0.64	0.03	1.02	0.03	19.80	9.2	27	0.47	5.8
403823		2.34	<0.001	0.05	0.56	7.9	10	0.34	0.03	2.31	0.03	9.63	7.2	22	0.75	7.4
403824		2.49	<0.001	0.03	0.76	18.1	10	0.47	0.02	3.55	0.06	15.45	8.9	25	1.35	5.3
403825		2.42	<0.001	0.11	0.41	3.1	10	0.35	0.03	2.60	0.03	10.75	9.4	20	0.92	16.7
403826		0.26	<0.001	<0.01	0.06	0.5	20	0.05	0.01	32.8	0.02	0.94	0.5	2	<0.05	0.7
403827		2.37	<0.001	0.03	0.56	12.9	<10	0.41	0.01	3.27	0.02	16.65	6.6	18	0.79	3.5
403828		2.50	0.002	0.02	0.86	16.3	<10	0.36	0.03	1.94	0.04	18.00	10.0	26	0.37	7.0
403829		2.66	<0.001	0.01	0.62	1.4	<10	0.39	0.02	1.15	0.02	15.15	7.6	19	0.14	4.9
403830		2.50	0.001	0.04	0.83	6.8	10	0.36	0.04	1.33	0.02	15.70	9.4	26	0.25	10.7



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
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 Finalisée date:  
**26-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191850**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
403811		17.95	3.35	0.05	0.5	<0.005	0.015	0.10	8.1	3.2	2.71	12850	0.36	0.01	4.2	9.3
403812		15.00	1.34	0.06	0.2	<0.005	0.007	0.03	4.0	1.9	2.42	11900	0.37	0.01	2.1	6.1
403813		17.05	1.41	0.11	0.2	<0.005	0.009	0.05	4.7	1.3	2.87	11100	0.29	<0.01	2.6	7.0
403814		17.45	2.27	0.09	0.4	<0.005	0.012	0.08	6.7	1.7	2.99	10050	0.35	<0.01	4.1	8.7
403815		18.70	1.90	0.10	0.3	0.010	0.009	0.04	5.1	1.4	3.05	10350	0.33	<0.01	3.2	7.0
403816		21.6	2.21	0.09	0.4	<0.005	0.011	0.05	6.6	1.5	3.28	11600	0.32	<0.01	3.8	8.5
403817		21.3	3.11	0.09	0.5	0.006	0.014	0.06	7.4	2.1	3.20	11000	0.28	<0.01	5.1	10.3
403818		25.3	4.12	0.11	0.6	<0.005	0.021	0.05	9.6	2.5	3.65	14500	0.48	<0.01	5.5	15.0
403819		7.52	18.65	0.13	3.5	0.054	0.062	0.99	20.8	7.9	5.54	1040	3.04	2.02	29.5	348
403820		19.90	3.06	0.10	0.5	0.008	0.026	0.06	8.0	2.0	2.92	11650	0.69	0.01	5.2	12.6
403821		15.00	2.68	0.10	0.5	0.012	0.081	0.13	8.3	1.8	2.56	8770	1.29	0.03	4.7	10.2
403822		19.75	3.55	0.10	0.6	<0.005	0.014	0.04	10.3	2.7	2.64	14300	1.31	<0.01	5.3	16.8
403823		16.15	2.31	0.09	0.3	<0.005	0.071	0.05	5.1	1.8	2.41	10400	1.69	0.01	3.6	8.3
403824		20.2	3.68	0.11	0.6	0.008	0.096	0.10	7.9	2.5	3.50	10600	1.59	0.01	5.5	11.7
403825		15.65	2.50	0.09	0.4	<0.005	0.291	0.07	5.8	1.4	2.02	7680	1.20	0.01	4.0	10.1
403826		0.17	0.18	0.07	<0.1	<0.005	<0.005	0.01	1.1	1.1	1.57	122	<0.05	0.03	0.1	0.2
403827		18.60	2.58	0.09	0.7	<0.005	0.042	0.05	8.2	1.7	2.68	11400	0.73	0.01	6.2	9.0
403828		19.15	4.21	0.10	0.7	0.006	0.024	0.03	9.4	2.7	2.63	13050	0.89	<0.01	6.9	15.5
403829		18.90	2.77	0.10	0.4	<0.005	0.014	0.01	8.1	2.3	2.44	12450	0.45	<0.01	4.1	10.1
403830		18.95	3.51	0.10	0.6	0.021	0.021	0.03	8.2	3.6	2.44	13850	0.56	<0.01	5.4	15.3



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**26-AOUT-2018**  
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**CERTIFICAT D'ANALYSE VO18191850**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403811		660	1.6	4.8	<0.002	0.15	0.09	2.2	1	0.2	27.4	0.26	0.05	0.71	0.087	0.06
403812		290	1.3	1.4	<0.002	0.07	0.06	0.9	1	<0.2	20.9	0.11	<0.05	0.32	0.040	0.02
403813		360	1.9	2.3	<0.002	0.06	0.08	1.0	<1	<0.2	31.2	0.14	<0.05	0.37	0.044	0.03
403814		400	1.6	4.0	<0.002	0.12	0.09	1.5	1	0.2	31.6	0.23	0.07	0.66	0.069	0.05
403815		330	1.1	1.9	<0.002	0.09	0.09	1.3	<1	<0.2	24.9	0.20	<0.05	0.51	0.049	0.02
403816		410	1.5	2.2	<0.002	0.12	0.10	1.5	<1	<0.2	17.9	0.22	<0.05	0.63	0.058	0.03
403817		400	1.4	2.7	<0.002	0.15	0.11	2.1	1	0.2	17.5	0.31	<0.05	0.81	0.084	0.04
403818		550	1.6	2.3	<0.002	0.22	0.11	2.8	<1	0.2	18.7	0.30	0.06	0.98	0.104	0.03
403819		1860	5.2	30.4	<0.002	0.02	0.34	23.6	<1	1.3	482	1.61	0.06	2.74	1.045	0.07
403820		470	1.5	2.9	<0.002	0.26	0.11	2.2	<1	0.3	27.1	0.26	0.05	0.88	0.075	0.02
403821		360	2.7	6.1	<0.002	0.39	0.13	2.0	<1	0.4	56.4	0.26	<0.05	1.13	0.061	0.03
403822		510	1.2	2.2	<0.002	0.14	0.11	2.3	<1	0.3	11.5	0.28	<0.05	1.05	0.074	0.02
403823		350	3.4	2.4	<0.002	0.42	0.09	1.5	1	0.5	21.6	0.14	<0.05	0.71	0.048	0.03
403824		410	1.8	4.5	<0.002	0.27	0.13	2.4	<1	0.7	34.5	0.25	0.05	1.22	0.080	0.04
403825		410	8.0	3.6	<0.002	1.71	0.10	1.2	1	0.4	27.5	0.22	<0.05	0.71	0.046	0.04
403826		70	<0.5	0.3	<0.002	0.01	0.06	0.2	1	<0.2	79.4	<0.05	<0.05	0.06	0.005	<0.02
403827		420	1.5	2.3	<0.002	0.22	0.09	1.8	<1	0.2	36.4	0.37	<0.05	1.08	0.058	0.02
403828		430	1.9	1.4	<0.002	0.25	0.11	2.6	1	0.3	20.6	0.39	0.06	1.25	0.092	0.02
403829		520	1.3	0.6	<0.002	0.13	0.10	2.0	1	0.2	11.8	0.22	0.05	0.70	0.074	<0.02
403830		470	1.9	1.2	<0.002	0.25	0.12	2.8	<1	0.3	13.3	0.29	<0.05	1.00	0.094	0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18191850**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
403811		0.6	48	0.2	6.6	12	20.7
403812		0.2	22	0.2	4.2	7	9.7
403813		0.2	24	0.3	4.6	9	11.0
403814		0.3	37	0.2	5.2	9	18.8
403815		0.3	28	0.2	4.9	9	14.3
403816		0.3	33	0.2	5.6	9	17.4
403817		0.5	48	0.3	6.3	12	24.7
403818		0.8	53	0.3	7.7	16	27.2
403819		0.6	147	3.5	21.8	104	144.5
403820		0.6	42	0.4	6.2	14	23.6
403821		0.8	34	0.2	6.9	15	24.5
403822		1.0	42	0.2	7.0	23	24.3
403823		0.6	30	0.2	4.9	20	12.8
403824		0.8	50	0.4	6.6	29	25.9
403825		0.5	27	0.2	4.9	14	18.9
403826		0.1	1	<0.1	2.1	3	1.5
403827		0.6	36	0.2	6.9	12	29.9
403828		0.9	54	0.2	6.8	20	35.1
403829		0.5	41	0.2	5.5	11	19.6
403830		0.7	49	0.3	5.8	15	25.9



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date:  
**26-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191850**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada

Applique à la Méthode:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applique à la Méthode:	Au-ICP21	Hg-MS42	ME-MS61	
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
22-AOUT-2018  
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## CERTIFICAT VO18191853

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-030

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**22-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191853**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403791		2.59	0.283	0.78	0.17	1.2	20	0.12	0.03	4.16	0.13	8.46	3.4	6	0.35	22.0
403792		2.62	1.040	0.51	0.37	24.8	30	0.22	0.08	11.05	0.74	10.75	8.5	7	0.38	75.1
403793		2.67	1.170	0.05	0.37	1.9	20	0.22	0.06	5.57	0.36	11.35	7.1	7	0.66	35.1
403794		2.68	1.055	0.10	0.39	1.5	50	0.23	0.04	4.81	0.20	11.50	4.5	7	0.44	26.9
403795		2.56	0.911	0.09	0.23	3.0	20	0.24	0.02	3.41	0.13	8.31	3.7	6	0.23	16.8
403796		2.71	0.214	0.08	0.19	7.6	10	0.22	0.02	3.58	0.11	10.70	5.1	7	0.34	8.6
403797		2.61	0.726	0.02	0.12	5.1	10	0.22	0.02	2.35	0.09	6.63	3.5	10	0.42	11.9
403798		2.53	0.375	0.04	0.54	5.7	30	0.29	0.02	4.79	0.24	8.98	5.1	14	0.82	22.3
403799		0.07	0.664	0.19	7.19	18.7	330	1.22	0.14	4.42	0.19	47.2	42.9	186	1.72	54.6
403800		2.46	2.33	0.38	0.83	10.2	20	0.32	0.03	1.76	0.10	15.35	7.8	22	2.57	13.5
403801		2.67	0.010	0.03	0.56	10.7	30	0.33	0.02	2.16	0.07	14.85	6.0	21	5.04	7.4
403802		2.58	0.009	0.02	1.03	7.5	20	0.37	0.03	2.42	0.07	13.90	7.7	22	4.82	12.3
403803		2.26	<0.001	0.04	0.85	0.9	10	0.36	0.03	1.43	0.12	13.35	6.8	23	0.70	7.9
403804		2.44	0.016	0.10	2.44	25.4	20	0.52	0.12	1.72	0.19	23.0	13.6	40	1.57	29.7
403805		2.19	0.024	0.03	2.04	3.9	30	0.52	0.05	2.68	0.16	20.9	10.0	38	5.72	19.3
403806		0.31	<0.001	<0.01	0.08	<0.2	20	0.06	0.02	34.8	<0.02	0.95	0.5	1	<0.05	0.9
403807		2.52	0.430	0.06	0.67	12.8	40	0.45	0.04	3.81	0.12	12.35	6.3	18	6.78	11.3
403808		2.67	0.300	0.01	0.61	0.3	10	0.37	0.03	2.67	0.04	13.65	4.5	24	1.55	5.6
403809		2.58	0.031	0.02	0.99	1.1	10	0.44	0.03	2.29	0.06	17.90	9.4	26	1.64	7.3
403810		2.49	<0.001	0.01	0.44	1.7	10	0.63	0.02	2.66	0.02	8.45	4.7	22	0.67	4.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18191853**

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
403791		22.8	0.69	0.06	0.1	<0.005	0.007	0.04	5.2	1.5	3.55	7290	0.32	0.01	1.0	3.1
403792		20.1	1.32	0.06	0.2	0.019	0.018	0.13	5.2	3.3	3.75	8140	0.22	0.01	1.7	8.7
403793		23.3	1.09	0.06	0.1	0.008	0.018	0.10	5.7	3.0	3.63	9290	0.11	0.01	1.7	5.8
403794		22.5	1.37	0.05	0.1	0.021	0.016	0.11	6.4	3.0	3.85	8900	0.12	0.01	2.7	3.4
403795		20.9	0.86	0.05	0.1	0.010	0.008	0.06	5.3	2.3	3.47	7340	0.12	0.01	1.2	2.7
403796		24.3	0.68	0.05	0.1	<0.005	0.005	0.03	6.6	1.3	4.07	8050	0.21	<0.01	1.5	3.1
403797		21.7	0.48	<0.05	0.1	0.006	0.006	0.04	4.3	0.9	3.29	7190	0.16	0.01	0.9	2.3
403798		18.45	1.91	<0.05	0.2	0.011	0.104	0.13	5.0	2.7	3.16	8890	0.39	0.01	2.6	5.5
403799		7.27	18.20	0.07	3.4	0.013	0.069	0.89	21.6	12.5	2.88	930	2.23	1.71	19.8	143.5
403800		20.7	2.94	0.06	0.6	0.071	0.080	0.11	7.8	1.8	2.89	12950	0.55	0.03	4.9	11.2
403801		22.2	1.64	<0.05	0.5	0.017	0.015	0.16	8.0	1.1	3.29	12600	0.92	0.06	4.0	10.6
403802		19.90	3.58	<0.05	0.5	0.023	0.017	0.16	7.4	1.7	3.06	12250	0.79	0.05	4.5	12.2
403803		19.00	3.12	<0.05	0.5	<0.005	0.018	0.03	7.4	1.8	2.41	17600	0.53	0.01	3.5	10.7
403804		19.60	7.30	0.05	0.9	0.022	0.030	0.16	11.8	7.2	2.63	13650	1.91	0.01	6.4	26.7
403805		19.60	6.23	0.05	0.8	0.031	0.024	0.24	10.9	6.2	3.08	11800	1.12	0.05	5.7	20.2
403806		0.15	0.25	0.06	0.1	<0.005	<0.005	0.01	1.1	0.8	1.24	119	<0.05	0.04	0.2	0.4
403807		18.35	2.55	<0.05	0.4	0.046	0.017	0.25	6.8	1.6	3.10	11800	0.34	0.07	3.5	8.5
403808		15.80	2.41	<0.05	0.5	0.016	0.009	0.06	7.6	1.4	2.58	10900	0.27	0.02	3.7	7.2
403809		22.7	4.22	0.05	0.7	<0.005	0.017	0.12	9.7	2.8	3.52	14000	0.39	0.01	6.8	15.2
403810		15.65	1.80	<0.05	0.3	<0.005	0.007	0.08	4.6	1.8	2.57	10750	0.30	<0.01	2.8	6.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**22-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191853**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403791		230	1.8	1.5	<0.002	1.23	0.07	0.4	1	<0.2	71.4	<0.05	0.05	0.28	0.009	0.02
403792		380	5.8	3.5	<0.002	3.41	0.22	2.0	4	<0.2	366	0.11	0.18	0.37	0.020	0.06
403793		400	3.1	4.0	<0.002	1.91	0.15	1.0	3	<0.2	146.0	0.12	0.12	0.46	0.015	0.06
403794		300	2.2	3.3	<0.002	1.07	0.10	0.7	1	<0.2	102.5	0.11	0.05	0.43	0.017	0.06
403795		310	1.3	1.6	<0.002	0.53	0.08	0.4	1	<0.2	59.6	0.06	<0.05	0.19	0.011	0.03
403796		360	1.2	1.1	<0.002	0.28	0.08	0.4	1	<0.2	57.8	0.06	<0.05	0.29	0.016	0.02
403797		190	0.9	1.1	<0.002	0.43	0.07	0.3	1	<0.2	39.1	<0.05	<0.05	0.14	0.007	<0.02
403798		240	2.1	4.3	<0.002	0.77	0.14	1.6	1	0.2	119.0	0.17	<0.05	0.47	0.032	0.04
403799		1110	13.3	41.8	<0.002	0.02	0.97	21.4	1	1.6	345	1.12	<0.05	4.45	0.921	0.18
403800		490	1.6	4.3	<0.002	0.48	0.20	2.2	1	0.2	31.4	0.33	0.07	0.92	0.081	0.03
403801		560	3.9	5.4	0.002	0.16	0.23	1.3	1	0.2	34.3	0.28	0.05	0.72	0.074	0.02
403802		530	2.3	5.2	<0.002	0.35	0.19	2.1	1	0.2	39.2	0.29	0.05	0.98	0.103	<0.02
403803		520	1.6	1.1	<0.002	0.29	0.14	2.3	1	<0.2	28.9	0.21	0.05	0.77	0.094	<0.02
403804		470	4.1	7.5	0.006	1.55	0.24	4.0	2	0.4	36.0	0.41	0.10	2.53	0.153	0.09
403805		380	2.8	9.9	0.002	0.64	0.27	3.3	1	0.3	50.1	0.37	<0.05	2.06	0.136	0.05
403806		60	0.5	0.4	<0.002	0.01	0.05	0.1	1	<0.2	80.4	<0.05	<0.05	0.09	0.005	<0.02
403807		530	2.3	10.0	<0.002	0.51	0.17	1.7	1	0.2	63.6	0.23	0.07	0.61	0.088	0.04
403808		580	1.8	2.1	<0.002	0.18	0.12	1.6	<1	<0.2	35.7	0.23	<0.05	0.66	0.088	<0.02
403809		650	3.0	5.3	<0.002	0.22	0.12	2.4	1	0.2	31.0	0.43	0.06	1.17	0.132	0.05
403810		340	1.5	3.6	<0.002	0.09	0.09	1.1	1	0.2	26.2	0.17	<0.05	0.43	0.064	0.05



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
22-AOUT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18191853**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
403791		0.2	16	0.1	5.0	19	4.1
403792		0.2	20	0.1	11.7	31	8.8
403793		0.1	15	0.1	6.4	35	5.6
403794		0.1	18	0.1	6.2	30	6.2
403795		0.1	15	0.1	5.4	22	5.0
403796		0.1	14	0.1	5.9	17	5.3
403797		0.1	10	0.1	4.1	12	2.8
403798		0.3	28	0.1	6.9	28	11.4
403799		1.0	145	2.0	20.2	130	146.0
403800		0.6	50	0.2	5.8	28	26.3
403801		0.5	41	0.3	5.7	18	18.3
403802		0.8	79	0.3	5.8	22	21.5
403803		0.6	67	0.3	5.2	22	18.7
403804		2.1	122	0.2	5.6	64	32.5
403805		1.5	98	0.2	5.8	50	28.6
403806		0.2	1	<0.1	2.1	3	2.3
403807		0.4	56	0.2	5.6	21	17.3
403808		0.5	58	0.2	5.1	14	18.2
403809		0.7	97	0.3	7.0	19	32.7
403810		0.3	42	0.2	4.6	10	12.7



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date:  
**22-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191853**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
21-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18191856

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-029

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**21-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191856**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403771		2.68	0.005	0.01	0.19	11.0	10	0.37	0.02	1.88	0.05	7.94	2.7	8	1.49	3.9
403772		2.60	0.018	0.01	0.20	6.8	10	0.31	0.02	0.91	0.04	5.11	2.9	15	1.55	2.5
403773		2.40	<0.001	0.01	0.18	4.5	20	0.19	0.02	0.63	0.03	4.06	2.7	11	2.30	1.5
403774		2.57	0.186	0.13	0.10	4.2	10	0.21	0.07	7.05	0.13	9.99	10.4	4	1.05	36.5
403775		2.33	0.001	0.05	0.16	4.0	10	0.23	0.04	2.43	0.04	7.61	6.0	7	1.59	15.3
403776		2.55	0.009	0.05	0.13	3.6	<10	0.34	0.04	4.64	0.03	10.35	6.0	5	0.39	13.9
403777		2.44	0.059	0.02	0.24	4.9	<10	0.43	0.03	2.59	0.03	7.43	4.3	10	0.31	2.8
403778		2.63	0.016	0.12	0.23	8.7	10	0.24	0.03	2.98	0.04	8.50	5.5	8	0.79	3.8
403779		0.07	7.68	1.27	6.15	35.1	320	0.72	0.46	3.04	0.07	31.3	41.6	334	0.63	116.5
403780		2.74	0.002	0.01	0.29	11.6	<10	0.38	0.01	3.36	0.02	15.90	6.8	10	0.57	1.4
403781		3.57	0.001	0.01	0.26	10.7	10	0.25	0.02	2.89	0.03	13.00	6.3	13	0.74	6.1
403782		1.86	0.010	0.42	4.91	4.3	200	2.09	0.16	0.44	1.36	71.1	27.7	69	1.51	161.0
403783		2.15	0.004	0.11	0.30	8.2	10	0.16	0.03	3.60	0.09	13.40	5.0	18	0.28	20.5
403784		2.54	0.002	0.01	0.27	1.3	10	0.23	0.02	5.59	0.09	9.98	2.4	8	0.71	5.1
403785		2.53	0.007	0.04	0.12	2.4	10	0.16	0.02	3.54	0.04	7.29	2.1	10	0.44	7.7
403786		0.31	<0.001	<0.01	0.06	2.5	20	<0.05	0.01	33.9	0.04	0.92	0.5	2	<0.05	0.9
403787		2.37	0.050	0.01	0.20	1.0	10	0.22	0.01	4.85	0.05	7.00	2.7	9	1.24	10.3
403788		2.54	0.029	0.02	0.20	0.9	10	0.19	0.02	5.13	0.11	9.35	2.8	18	0.49	14.8
403789		2.67	0.378	0.02	0.23	6.4	10	0.19	0.02	1.77	0.08	9.87	2.7	8	0.44	8.9
403790		2.72	1.890	1.87	0.29	1.5	20	0.18	0.03	3.60	0.15	10.40	5.3	6	0.39	36.9



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**21-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191856**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
403771		22.2	1.24	<0.05	0.1	0.010	0.005	0.06	4.6	0.6	3.46	5600	0.25	0.03	2.4	2.6
403772		22.6	1.06	<0.05	0.1	0.011	0.006	0.07	3.1	0.7	3.20	5720	0.54	0.02	3.0	3.2
403773		21.3	0.87	<0.05	0.1	0.011	<0.005	0.09	2.5	0.7	2.93	5450	0.27	0.03	2.9	2.4
403774		20.9	0.50	0.05	0.1	0.021	0.005	0.04	5.5	0.7	3.50	4710	0.82	0.02	1.3	11.6
403775		22.4	0.97	<0.05	0.1	0.014	0.006	0.06	4.5	0.6	3.12	5510	0.72	0.02	2.8	6.2
403776		20.7	0.70	<0.05	0.1	<0.005	<0.005	0.02	6.1	0.8	3.20	6080	0.37	0.01	1.5	5.8
403777		22.0	1.32	<0.05	0.2	<0.005	0.006	0.04	4.3	1.7	3.16	6190	0.34	<0.01	5.3	3.3
403778		24.9	1.22	0.05	0.2	<0.005	0.006	0.04	5.0	1.1	3.71	7110	0.42	0.01	3.9	4.4
403779		5.65	15.35	0.05	2.3	0.169	0.047	1.07	15.6	13.4	4.07	763	5.92	1.21	17.2	251
403780		23.8	1.39	<0.05	0.2	<0.005	0.007	0.02	7.8	1.1	3.49	10450	0.55	0.01	4.0	3.9
403781		18.55	1.26	<0.05	0.2	0.009	0.006	0.05	7.9	1.4	2.79	8420	0.63	0.02	2.6	4.6
403782		14.10	14.85	0.11	3.2	0.191	0.082	2.23	38.4	28.3	0.59	416	13.85	0.51	13.2	64.8
403783		13.95	2.21	0.05	0.2	0.008	0.009	0.08	6.9	3.2	2.71	4070	1.68	0.01	2.5	10.7
403784		16.80	1.66	<0.05	0.1	<0.005	0.008	0.05	5.8	1.8	3.64	5160	0.77	0.01	2.0	2.6
403785		17.70	0.78	<0.05	0.1	0.005	0.005	0.02	4.3	0.8	2.95	4540	0.24	<0.01	1.9	2.1
403786		0.22	0.17	<0.05	<0.1	<0.005	<0.005	0.01	1.1	0.8	1.33	103	<0.05	0.03	0.1	<0.2
403787		14.45	1.25	<0.05	0.1	<0.005	0.006	0.05	4.0	1.1	2.86	4000	0.37	0.01	2.1	2.8
403788		17.75	1.46	<0.05	0.1	0.007	0.006	0.04	5.4	1.8	3.46	4760	0.42	<0.01	2.7	3.0
403789		21.4	1.08	0.05	0.2	<0.005	0.007	0.04	5.4	1.8	3.29	6090	0.23	<0.01	4.4	1.9
403790		21.5	1.10	<0.05	0.1	0.028	0.010	0.08	6.0	2.3	3.26	6800	0.28	<0.01	1.4	4.1





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18191856**

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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403771		170	1.5	1.9	<0.002	0.43	0.09	0.5	<1	<0.2	24.9	0.08	<0.05	0.24	0.013	<0.02
403772		80	1.1	2.7	<0.002	0.29	0.12	0.5	1	<0.2	10.1	0.10	<0.05	0.33	0.015	0.02
403773		50	0.7	3.4	<0.002	0.20	0.12	0.4	<1	<0.2	7.5	0.09	<0.05	0.25	0.014	0.02
403774		120	4.0	1.4	<0.002	3.82	0.16	0.3	1	<0.2	95.0	0.07	0.16	0.15	<0.005	<0.02
403775		130	1.8	2.1	<0.002	1.54	0.15	0.5	1	<0.2	27.2	0.10	0.07	0.24	0.011	<0.02
403776		260	1.9	0.9	<0.002	1.35	0.10	0.4	1	<0.2	41.6	0.06	0.06	0.15	0.007	<0.02
403777		110	1.2	1.9	<0.002	0.29	0.11	0.6	1	<0.2	23.3	0.13	0.05	0.32	0.016	0.03
403778		160	1.6	1.8	<0.002	0.48	0.14	0.7	1	<0.2	33.4	0.16	0.08	0.41	0.021	0.02
403779		1130	9.3	40.8	<0.002	0.09	0.77	21.8	1	1.0	282	0.94	0.23	2.32	0.687	0.18
403780		590	1.0	1.0	<0.002	0.05	0.11	0.8	1	<0.2	38.8	0.11	0.05	0.79	0.028	<0.02
403781		850	1.7	2.0	<0.002	0.32	0.11	0.6	1	<0.2	38.2	0.11	0.05	0.42	0.025	0.03
403782		770	47.7	63.4	0.017	7.41	2.46	11.7	4	1.7	25.8	0.72	0.62	4.39	0.222	1.27
403783		120	2.7	2.9	0.003	1.50	0.14	1.0	1	<0.2	67.4	0.09	0.08	0.20	0.016	0.06
403784		110	1.7	2.1	<0.002	0.38	0.25	0.6	1	<0.2	84.9	0.09	<0.05	0.26	0.015	0.02
403785		140	1.1	1.0	<0.002	0.47	0.09	0.4	1	<0.2	44.8	0.06	<0.05	0.18	0.009	<0.02
403786		60	0.5	0.3	<0.002	0.06	0.05	0.2	1	<0.2	77.9	<0.05	<0.05	0.04	0.005	<0.02
403787		110	1.4	1.9	<0.002	0.67	0.09	0.5	1	<0.2	72.0	0.07	0.05	0.19	0.011	<0.02
403788		90	1.8	1.9	<0.002	0.96	0.08	0.7	1	<0.2	89.6	0.08	0.05	0.27	0.015	0.03
403789		210	0.9	2.0	<0.002	0.60	0.11	0.4	1	<0.2	34.8	0.23	<0.05	0.41	0.009	0.03
403790		250	1.9	2.7	<0.002	1.91	0.08	0.5	1	<0.2	77.2	0.06	0.10	0.19	0.011	0.04



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
21-AOUT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191856**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
403771		0.3	17	0.1	4.8	12	7.5
403772		0.3	20	0.1	3.9	13	7.4
403773		0.2	20	0.1	3.3	10	6.4
403774		0.1	10	0.1	6.6	11	3.0
403775		0.3	20	0.1	4.4	11	6.2
403776		0.2	16	0.1	6.1	8	4.1
403777		0.5	27	0.1	5.0	11	8.6
403778		0.5	25	0.3	5.9	14	11.3
403779		0.5	147	8.9	15.9	86	102.0
403780		0.2	18	0.2	7.0	10	8.8
403781		0.3	20	0.1	6.1	11	9.3
403782		10.2	167	1.8	13.9	305	144.0
403783		1.1	53	0.4	5.2	22	11.6
403784		0.3	26	0.1	5.8	16	6.8
403785		0.2	17	0.1	4.3	10	4.7
403786		0.1	1	<0.1	2.2	11	1.4
403787		0.2	24	0.1	4.9	11	5.0
403788		0.3	26	0.1	5.9	17	6.8
403789		0.2	16	0.1	5.0	19	11.5
403790		0.2	22	0.1	5.8	23	5.2



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
**21-AOUT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191856**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
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## CERTIFICAT VO18191859

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-028

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
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 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191859**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
403751		2.40	0.001	0.01	0.77	0.9	50	0.33	0.02	2.84	0.04	13.50	7.5	19	6.03	3.9
403752		2.69	0.009	0.01	0.61	1.7	70	0.38	0.03	2.23	0.06	12.55	6.4	17	7.78	5.5
403753		2.94	0.604	0.01	0.39	0.5	50	0.35	0.04	3.80	0.13	11.25	3.7	11	5.25	9.9
403754		2.57	0.464	0.01	0.33	1.6	50	0.24	0.03	2.65	0.10	11.20	4.7	10	5.45	10.3
403755		2.64	9.77	0.21	0.60	3.4	80	0.25	0.05	7.50	0.28	18.50	8.2	6	9.49	33.9
403756		2.13	3.22	0.07	0.37	0.5	50	0.22	0.04	6.07	0.15	6.23	3.7	8	5.73	15.0
403757		2.43	0.085	0.02	0.21	10.3	30	0.17	0.04	3.66	0.11	10.40	3.5	34	3.16	8.7
403758		2.28	0.272	0.11	2.09	0.5	150	1.39	0.13	2.95	0.13	29.1	8.7	34	2.69	30.0
403759		0.07	2.57	0.46	6.59	9.6	330	1.11	0.18	4.70	0.09	43.7	48.8	318	0.64	75.2
403760		2.65	0.350	0.02	0.62	0.4	30	0.25	0.04	3.44	0.16	26.0	4.0	8	4.00	15.6
403761		2.36	6.37	1.30	0.32	0.3	40	0.22	0.03	5.07	0.19	7.19	2.2	8	5.36	6.4
403762		2.71	6.12	0.26	0.47	3.2	50	0.31	0.06	3.82	0.24	8.29	4.9	7	7.22	24.7
403763		2.51	4.88	0.41	0.50	3.5	70	0.32	0.05	5.20	0.25	9.94	6.4	6	8.40	23.4
403764		3.94	1.925	0.20	0.41	1.1	30	0.33	0.04	6.67	0.21	15.35	5.1	7	4.00	15.3
403765		3.93	0.010	0.01	0.11	6.4	10	0.31	0.02	1.38	0.04	7.22	2.2	8	1.29	2.4
403766		0.27	0.003	<0.01	0.06	<0.2	10	0.06	0.01	31.9	<0.02	0.85	0.5	2	<0.05	1.0
403767		2.59	0.003	0.02	0.24	10.6	20	0.40	0.04	6.15	0.05	12.65	3.7	9	2.35	3.9
403768		2.32	0.317	0.02	0.35	2.2	20	0.35	0.02	1.67	0.04	18.40	4.6	8	2.09	5.4
403769		2.17	2.47	0.14	0.24	1.6	20	0.32	0.02	1.63	0.04	11.85	4.1	10	2.90	5.3
403770		2.54	0.018	0.05	0.34	1.5	20	0.44	0.04	2.44	0.05	16.85	4.4	8	3.12	8.8



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
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 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18191859**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
403751		17.80	3.55	<0.05	0.5	0.038	0.017	0.19	7.1	1.3	2.84	14850	0.42	0.08	4.7	9.7
403752		19.20	2.81	0.09	0.5	0.020	0.016	0.25	7.0	1.3	2.98	13700	0.57	0.10	4.7	8.5
403753		22.0	1.32	0.09	0.2	0.035	0.009	0.17	6.8	1.0	4.08	9540	0.46	0.07	2.0	4.8
403754		21.1	1.11	0.08	0.1	0.026	0.010	0.17	7.0	0.6	2.93	9640	0.30	0.08	1.6	3.8
403755		18.50	1.84	0.08	0.8	0.372	0.017	0.30	10.6	1.3	3.41	5480	0.22	0.13	1.7	10.7
403756		15.85	1.69	0.06	0.1	0.042	0.012	0.18	3.8	0.8	3.45	4340	0.56	0.08	1.4	4.9
403757		14.05	1.21	0.07	0.1	0.012	0.007	0.11	6.1	0.7	2.73	4120	1.64	0.04	1.8	6.1
403758		16.05	5.66	0.08	1.4	0.062	0.031	0.75	16.5	8.2	2.00	3790	5.66	0.12	11.4	18.5
403759		7.24	16.00	0.11	3.1	0.050	0.064	0.97	20.9	8.0	5.37	1000	2.95	1.93	26.8	339
403760		19.65	2.88	0.07	1.0	0.016	0.010	0.13	14.3	1.1	3.24	5140	0.43	0.06	9.7	5.1
403761		16.05	1.08	0.08	0.1	0.130	0.008	0.17	4.4	0.7	3.31	5040	0.49	0.07	1.0	2.6
403762		20.8	1.51	0.07	0.1	0.366	0.016	0.25	4.9	1.2	3.26	5890	0.48	0.09	0.9	8.1
403763		20.5	1.81	0.07	0.1	0.204	0.015	0.26	5.7	0.9	3.36	5980	0.82	0.11	1.0	9.5
403764		18.85	2.03	0.07	0.4	0.072	0.008	0.13	8.6	1.1	3.61	5810	0.71	0.06	5.5	6.4
403765		19.25	1.68	0.07	0.1	0.005	<0.005	0.05	4.4	0.6	3.24	5100	0.25	0.02	1.0	3.2
403766		0.16	0.17	0.08	<0.1	<0.005	<0.005	0.01	1.1	1.0	1.58	103	<0.05	0.03	0.1	<0.2
403767		18.15	3.69	0.06	0.1	0.010	0.007	0.09	7.6	1.0	4.34	4650	0.86	0.03	2.0	5.3
403768		22.2	1.88	0.07	0.5	0.009	0.007	0.06	10.7	0.7	3.03	6600	0.44	0.03	5.8	3.4
403769		21.8	1.00	0.07	0.1	0.048	0.009	0.09	7.5	0.6	2.88	6750	0.29	0.04	2.1	3.4
403770		22.1	1.74	0.07	0.4	0.030	0.010	0.10	9.7	0.7	2.95	5790	0.72	0.04	6.9	4.3



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18191859**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
403751		540	1.5	7.0	<0.002	0.19	0.22	2.5	1	<0.2	47.8	0.27	<0.05	0.84	0.090	<0.02
403752		390	2.6	8.4	<0.002	0.13	0.21	1.7	<1	<0.2	38.1	0.28	<0.05	0.80	0.084	0.02
403753		360	2.0	5.7	<0.002	0.48	0.14	0.9	1	<0.2	67.3	0.14	0.07	0.52	0.038	0.02
403754		480	1.6	5.6	<0.002	0.59	0.16	0.5	1	<0.2	45.0	0.08	0.05	0.41	0.019	0.02
403755		180	4.4	9.9	<0.002	2.46	0.23	0.6	2	<0.2	146.5	0.28	0.14	1.29	0.016	0.06
403756		140	2.8	5.7	<0.002	0.99	0.15	0.5	1	<0.2	89.5	0.09	0.06	0.20	0.010	0.02
403757		180	2.7	3.5	0.002	0.66	0.16	0.4	<1	<0.2	54.4	0.07	0.07	0.21	0.013	0.03
403758		360	6.9	19.2	0.006	2.37	0.31	3.9	2	1.6	43.8	0.78	0.25	1.79	0.161	0.28
403759		1780	5.0	28.2	<0.002	0.03	0.33	18.3	<1	1.3	463	1.54	0.10	2.79	1.015	0.07
403760		200	2.5	3.9	<0.002	1.10	0.16	0.4	1	<0.2	54.0	0.89	0.06	1.56	0.018	0.03
403761		140	2.0	5.3	<0.002	0.41	0.13	0.5	1	<0.2	85.0	0.10	<0.05	0.19	0.009	0.02
403762		180	4.7	8.6	<0.002	1.87	0.20	0.6	1	<0.2	91.0	0.12	0.10	0.17	0.008	0.06
403763		120	3.4	8.5	<0.002	2.05	0.19	0.8	2	0.2	119.5	0.14	0.11	0.24	0.009	0.03
403764		160	4.5	4.0	<0.002	1.34	0.17	0.6	1	<0.2	116.0	0.39	0.07	0.72	0.016	0.02
403765		200	1.2	1.6	<0.002	0.23	0.12	0.2	<1	<0.2	14.8	<0.05	<0.05	0.13	0.007	0.02
403766		60	<0.5	0.2	<0.002	<0.01	0.05	0.1	1	<0.2	74.3	<0.05	<0.05	0.06	<0.005	<0.02
403767		220	3.0	3.1	<0.002	0.40	0.21	0.6	1	<0.2	75.6	0.09	<0.05	0.28	0.016	0.04
403768		370	1.8	2.0	<0.002	0.57	0.07	0.5	<1	<0.2	23.3	0.47	<0.05	0.80	0.015	<0.02
403769		330	1.4	2.9	<0.002	0.51	0.08	0.4	<1	<0.2	20.9	0.08	<0.05	0.22	0.011	<0.02
403770		280	2.1	3.2	<0.002	0.99	0.10	0.5	1	<0.2	32.4	0.34	0.07	0.71	0.017	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18191859**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
403751		0.5	68	0.3	5.4	20	23.7
403752		0.5	47	0.2	4.8	20	19.5
403753		0.3	23	0.2	5.2	27	10.3
403754		0.2	19	0.1	5.5	20	5.5
403755		0.6	24	0.1	7.7	38	31.9
403756		0.3	23	0.1	4.8	25	5.2
403757		0.7	28	0.1	4.7	17	7.5
403758		4.1	63	0.5	7.2	51	59.5
403759		0.6	144	3.0	19.2	101	130.5
403760		0.5	22	0.2	6.7	34	43.0
403761		0.2	20	0.1	5.0	27	4.9
403762		0.2	23	0.1	6.5	35	4.3
403763		0.2	26	0.1	6.4	33	4.3
403764		0.4	23	0.1	8.2	24	19.1
403765		0.2	14	0.1	4.1	8	3.8
403766		0.1	1	<0.1	1.8	3	1.4
403767		0.7	31	0.1	6.7	9	7.4
403768		0.5	25	0.1	6.4	11	20.9
403769		0.3	21	0.1	4.8	10	5.4
403770		0.5	25	0.1	5.8	14	17.4







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Page: 1  
Nombre total de pages: 2 (A - D)  
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## CERTIFICAT VO18191862

Projet: Kan

Bon de commande #: KANDH18-065

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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**CERTIFICAT D'ANALYSE VO18191862**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457281		4.98	0.044	1.67	5.54	198.5	150	1.72	0.28	2.44	11.65	48.2	21.3	67	3.68	93.6
457282		4.67	0.034	1.24	7.11	113.0	200	1.88	0.17	2.06	5.49	56.6	18.7	74	4.36	183.0
457283		4.52	0.047	1.36	6.61	146.0	170	1.76	0.19	2.23	6.62	53.0	19.6	73	4.53	140.0
457284		4.72	0.063	1.78	5.00	245	130	1.47	0.26	1.11	11.70	49.1	23.9	71	5.15	177.0
457285		5.07	0.044	1.27	6.34	248	100	1.71	0.21	1.68	8.06	51.2	18.7	75	4.04	69.2
457286		5.04	0.063	1.54	4.32	264	110	1.36	0.30	2.79	10.15	39.4	19.4	57	3.93	70.9
457287		4.55	0.078	2.25	3.68	216	110	1.06	0.33	0.94	14.95	42.1	23.2	77	4.48	245
457288		4.84	0.062	2.26	3.16	175.0	90	0.78	0.29	1.12	10.30	40.9	23.7	58	3.02	309
457289		0.07	7.72	1.33	6.05	33.6	310	0.89	0.49	2.91	0.08	29.9	38.2	322	0.63	109.5
457290		4.70	0.049	1.37	6.01	163.0	120	1.42	0.29	1.78	4.93	51.6	19.5	71	3.67	129.5
457291		5.10	0.033	1.05	8.64	80.8	270	1.79	0.21	0.69	2.84	56.8	21.3	87	4.80	148.0
457292		4.77	0.027	0.94	8.53	72.1	270	1.59	0.19	0.64	4.12	51.4	22.2	86	4.56	171.5
457293		4.93	0.045	1.31	7.60	132.0	140	1.55	0.25	0.60	3.76	55.9	22.5	80	4.34	153.5
457294		4.99	0.044	1.26	7.53	134.0	140	1.62	0.23	1.00	3.02	66.6	20.4	78	4.27	110.5
457295		4.94	0.060	1.67	6.16	175.0	120	1.50	0.29	1.60	3.67	56.1	20.3	70	3.79	103.5
457296		0.30	<0.001	0.01	0.06	0.3	10	0.06	0.01	29.9	0.03	0.96	0.5	2	<0.05	3.0
457297		5.15	0.067	1.63	4.07	196.5	110	1.09	0.34	3.45	9.86	41.3	18.0	55	2.61	81.5
457298		4.89	0.062	1.74	5.45	198.5	100	1.53	0.40	1.74	5.12	49.5	21.0	67	3.53	108.5
457299		4.98	0.059	1.43	5.86	179.0	110	1.69	0.32	1.31	4.72	55.6	19.6	69	3.66	110.0
457300		5.09	0.061	1.30	6.01	178.5	130	1.85	0.28	2.17	6.54	52.3	17.1	67	3.46	98.3



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18191862**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
457281		15.50	13.60	0.15	1.7	0.775	0.080	2.33	30.6	21.9	1.26	740	52.5	0.26	7.7	183.0
457282		12.75	17.75	0.13	2.9	0.422	0.079	3.15	33.2	21.3	1.11	503	21.0	0.44	7.7	154.5
457283		12.85	15.95	0.13	2.6	0.517	0.083	2.87	33.5	19.5	1.22	469	42.1	0.30	5.7	169.0
457284		14.60	12.60	0.19	2.1	0.809	0.112	2.18	33.5	15.3	0.66	281	107.5	0.16	4.2	330
457285		15.10	15.10	0.17	1.8	0.711	0.072	2.82	31.2	21.9	1.03	371	32.5	0.20	4.1	164.5
457286		15.50	10.60	0.15	1.6	0.854	0.084	1.94	25.6	17.4	1.53	771	68.9	0.09	5.0	235
457287		15.25	9.12	0.15	1.5	0.759	0.122	1.47	29.4	11.4	0.62	453	150.0	0.09	4.2	363
457288		15.35	7.59	0.13	1.5	0.593	0.122	1.06	27.8	8.4	0.70	596	116.5	0.16	5.2	294
457289		5.48	14.15	0.06	2.5	0.158	0.049	1.03	15.8	13.9	3.93	734	5.95	1.17	16.6	247
457290		13.45	14.45	0.12	2.5	0.536	0.085	2.52	32.4	18.6	0.97	490	37.0	0.33	7.8	154.5
457291		10.75	20.7	0.13	3.9	0.309	0.089	3.89	33.2	22.3	0.66	196	14.45	0.21	11.3	127.0
457292		10.95	19.95	0.11	3.8	0.294	0.117	3.81	29.5	22.4	0.64	200	13.00	0.20	8.4	123.0
457293		13.40	18.55	0.14	3.9	0.436	0.100	3.37	31.7	20.5	0.55	158	25.8	0.19	9.6	152.0
457294		12.65	18.30	0.14	2.8	0.444	0.081	3.36	40.2	18.7	0.70	222	22.3	0.19	9.5	158.5
457295		14.60	14.90	0.13	2.2	0.542	0.070	2.68	34.3	17.2	0.90	379	39.1	0.17	7.2	164.0
457296		0.13	0.23	<0.05	0.1	<0.005	<0.005	0.01	1.1	1.1	1.63	88	0.22	0.03	0.1	1.5
457297		15.60	9.99	0.11	1.5	0.808	0.133	1.65	24.4	15.1	1.66	659	42.2	0.18	5.7	155.5
457298		15.05	13.70	0.15	2.2	0.704	0.079	2.34	28.5	15.8	0.96	364	44.1	0.18	6.0	176.0
457299		13.85	14.50	0.13	2.6	0.707	0.069	2.61	31.9	15.7	0.79	308	46.1	0.14	7.5	188.5
457300		14.60	14.20	0.11	2.5	0.697	0.087	2.62	30.9	19.1	1.22	509	26.8	0.17	6.8	162.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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 Finalisée date: 2-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18191862**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457281		540	80.3	74.9	0.051	>10.0	11.30	10.2	12	1.0	66.4	0.56	0.51	4.48	0.142	5.40
457282		300	54.6	82.5	0.025	>10.0	6.36	13.3	8	1.4	72.5	0.48	0.32	4.85	0.176	6.47
457283		340	64.5	88.7	0.043	>10.0	7.76	11.4	9	1.3	70.4	0.38	0.35	4.85	0.153	6.62
457284		530	86.5	79.1	0.094	>10.0	11.35	9.2	15	1.1	42.8	0.30	0.48	4.37	0.112	5.79
457285		410	81.8	86.2	0.038	>10.0	11.95	10.6	12	1.0	56.0	0.24	0.38	4.19	0.123	6.38
457286		400	92.5	65.8	0.072	>10.0	13.90	7.3	13	0.9	71.8	0.34	0.59	3.91	0.106	5.29
457287		990	90.8	56.7	0.102	>10.0	9.77	6.9	18	1.0	40.7	0.29	0.52	4.07	0.098	4.30
457288		1010	86.5	40.1	0.075	>10.0	7.95	6.3	19	0.8	48.6	0.38	0.41	3.58	0.094	2.71
457289		1090	9.5	38.4	<0.002	0.09	0.84	19.1	1	1.0	276	0.95	0.24	2.34	0.662	0.19
457290		500	71.7	76.1	0.041	>10.0	8.39	10.1	10	1.3	54.4	0.56	0.52	4.45	0.178	5.03
457291		230	44.1	103.0	0.018	9.56	4.59	15.3	5	1.8	46.5	0.73	0.45	5.02	0.304	6.85
457292		240	39.1	96.6	0.016	9.37	3.76	15.9	5	1.8	45.7	0.50	0.41	4.40	0.277	6.29
457293		320	61.4	92.7	0.023	>10.0	5.67	14.2	7	1.8	42.0	0.68	0.61	5.05	0.214	6.13
457294		250	63.5	97.6	0.023	>10.0	6.16	12.7	6	1.5	47.2	0.54	0.44	5.59	0.191	5.85
457295		320	82.2	81.7	0.036	>10.0	8.02	9.9	8	1.3	51.7	0.48	0.55	4.80	0.154	5.14
457296		50	1.5	0.4	<0.002	<0.01	0.07	0.1	1	0.2	69.7	<0.05	<0.05	0.10	0.005	0.02
457297		240	78.7	49.9	0.040	>10.0	8.49	6.7	9	1.0	67.1	0.38	0.51	3.32	0.117	3.47
457298		260	88.1	69.4	0.042	>10.0	8.78	8.5	10	1.3	48.7	0.41	0.61	4.06	0.139	4.50
457299		490	77.5	74.1	0.045	>10.0	7.79	8.2	9	1.4	44.2	0.49	0.46	4.51	0.150	4.67
457300		300	72.1	73.5	0.031	>10.0	7.64	8.9	9	1.3	56.9	0.46	0.48	4.33	0.150	4.56



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18191862**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
457281		27.6	538	2.1	12.2	2030	66.3
457282		17.0	268	1.7	8.8	1010	109.5
457283		25.1	501	1.9	10.2	1250	93.8
457284		53.3	1210	3.6	16.8	2110	81.0
457285		21.5	511	2.0	10.2	1440	67.1
457286		36.5	774	3.2	14.0	1790	62.5
457287		75.4	1520	4.6	24.3	2710	60.4
457288		47.9	1160	3.4	22.9	1980	59.3
457289		0.6	145	8.9	15.2	85	96.9
457290		20.0	385	2.1	13.4	1020	96.0
457291		13.7	209	2.0	10.8	618	141.5
457292		13.1	190	1.7	9.8	942	144.5
457293		17.9	281	1.8	13.9	825	140.0
457294		16.6	262	1.6	10.8	686	109.5
457295		24.0	374	1.9	13.0	788	85.1
457296		0.1	1	0.2	1.8	5	1.7
457297		19.8	349	1.6	12.0	2010	59.4
457298		20.5	415	1.8	12.2	1020	84.2
457299		21.3	407	1.9	13.9	932	96.8
457300		15.4	300	1.6	10.2	1220	92.4

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **2-SEPT-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18191862**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada

Applique à la Méthode:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applique à la Méthode:	Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
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Projet: Kan

Bon de commande #: KANDH18-064

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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À: **MINIÈRE OSISKO INC.**  
**300, RUE ST-PAUL**  
**BUREAU 200**  
**QUEBEC QC G1K 7R1**

Page: 2 - A  
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 plus les pages d'annexe  
 Finalisée date: 4-SEPT-2018  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18191863**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457261		4.65	0.052	2.08	3.57	211	120	2.30	0.39	3.64	12.95	37.7	20.1	51	2.97	120.5
457262		4.19	0.064	3.18	2.91	131.0	70	2.09	0.47	0.50	26.5	42.5	42.0	54	3.29	369
457263		3.83	0.044	2.74	1.91	94.4	90	1.61	0.34	1.55	16.80	33.7	28.3	41	2.10	434
457264		4.11	0.041	3.01	2.65	53.8	90	3.69	0.36	0.62	30.5	39.4	26.6	58	4.10	430
457265		4.42	0.022	1.98	2.58	94.7	110	2.30	0.36	1.81	11.45	49.2	36.8	46	2.60	267
457266		4.72	0.026	1.94	1.82	46.1	80	1.37	0.35	2.84	13.85	46.8	17.0	44	1.85	413
457267		4.35	0.055	2.26	3.01	88.8	70	2.17	0.34	0.88	25.0	48.8	28.5	59	3.99	311
457268		4.48	0.040	1.69	4.52	196.0	60	2.15	0.42	0.34	12.95	44.1	23.7	67	3.99	128.0
457269		0.07	2.57	0.48	6.62	12.0	310	1.22	0.17	4.67	0.09	42.9	53.8	305	0.63	79.3
457270		4.63	0.035	1.16	7.23	156.5	60	2.62	0.31	1.31	4.84	63.7	24.6	79	4.36	102.5
457271		4.68	0.019	0.87	8.24	68.9	220	2.79	0.20	0.86	3.29	55.5	20.6	89	4.67	272
457272		4.83	0.038	1.15	6.16	184.5	80	2.35	0.30	1.11	8.41	60.0	21.6	78	4.23	139.0
457273		4.52	0.068	1.68	3.36	282	120	1.38	0.39	0.32	13.90	41.5	23.2	64	4.29	153.5
457274		4.31	0.053	1.45	3.45	329	90	1.32	0.38	0.77	16.70	39.8	22.8	57	3.15	95.3
457275		4.33	0.044	1.48	3.10	269	90	1.25	0.35	0.41	11.15	36.6	24.7	56	4.20	168.5
457276		0.28	<0.001	0.01	0.07	0.8	20	0.07	0.01	30.8	0.06	0.86	0.5	3	<0.05	1.3
457277		4.65	0.072	2.05	3.79	298	60	1.39	0.42	0.77	14.40	40.7	27.8	59	4.15	186.5
457278		5.04	0.054	2.02	4.06	263	60	1.46	0.37	0.88	13.40	41.0	26.5	60	3.75	159.0
457279		4.65	0.046	1.72	3.71	182.5	100	1.27	0.30	2.16	15.30	42.8	21.5	53	2.89	285
457280		4.55	0.039	2.15	2.78	146.5	80	1.05	0.33	1.87	15.95	36.1	28.1	50	2.59	290



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Page: 2 – B  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18191863**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457261		14.40	9.87	0.13	1.5	1.120	0.057	1.58	24.7	25.2	1.75	1520	95.6	0.07	5.7	222
457262		17.20	8.37	0.15	1.7	1.135	0.084	1.23	29.4	26.2	0.62	667	162.5	0.04	2.9	348
457263		17.85	6.04	0.13	1.0	0.556	0.054	0.71	22.5	21.0	1.07	2130	134.5	0.02	2.2	286
457264		19.30	8.05	0.16	1.3	0.888	0.098	1.22	28.4	31.8	0.63	884	186.0	0.03	2.3	336
457265		15.30	7.69	0.13	1.4	0.378	0.052	0.85	30.8	40.0	1.53	2690	117.5	0.03	2.4	232
457266		16.80	5.69	0.16	1.4	0.348	0.044	0.59	29.5	21.5	1.72	4010	128.0	0.02	4.4	281
457267		15.25	8.66	0.16	1.9	0.712	0.085	1.34	33.7	22.1	0.64	1100	184.0	0.05	5.4	317
457268		12.80	12.05	0.14	2.1	0.872	0.062	1.96	30.7	24.2	0.46	295	130.5	0.08	3.7	362
457269		7.22	17.35	0.07	3.4	0.046	0.062	0.96	21.7	9.4	5.33	1030	2.99	1.92	27.6	345
457270		13.20	18.95	0.14	3.5	0.599	0.079	3.17	38.1	29.8	0.91	463	36.1	0.19	7.2	162.0
457271		10.70	21.2	0.12	4.1	0.295	0.082	3.78	31.2	28.2	0.78	380	18.65	0.24	8.9	164.5
457272		11.60	16.55	0.14	3.4	0.753	0.086	2.76	36.7	24.7	0.82	522	74.9	0.15	9.6	217
457273		12.15	9.11	0.15	1.3	1.095	0.080	1.56	32.1	16.8	0.35	114	202	0.04	2.8	466
457274		14.10	9.23	0.14	1.4	1.170	0.078	1.44	28.0	18.3	0.60	362	140.0	0.07	3.4	356
457275		14.05	8.71	0.16	1.2	0.961	0.100	1.46	28.0	14.2	0.33	162	200	0.04	2.5	498
457276		0.16	0.24	<0.05	<0.1	<0.005	0.005	0.02	1.0	1.0	1.19	90	0.69	0.03	0.2	1.4
457277		16.80	10.15	0.16	1.5	1.220	0.131	1.69	28.6	16.2	0.50	302	158.0	0.07	3.3	386
457278		16.35	11.10	0.16	1.6	1.150	0.083	1.79	27.1	17.5	0.57	448	110.0	0.08	4.3	292
457279		14.95	10.25	0.16	1.5	0.810	0.062	1.54	27.7	21.0	0.99	1080	102.0	0.11	4.3	269
457280		15.05	7.97	0.14	1.2	0.791	0.078	1.08	24.5	15.0	0.93	1270	135.5	0.07	3.0	265



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18191863**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457261		600	82.9	56.9	0.079	>10.0	23.1	8.0	13	1.1	73.4	0.39	0.84	3.44	0.108	4.30
457262		1220	92.2	49.5	0.108	>10.0	16.35	6.8	22	1.1	19.1	0.26	0.75	4.09	0.065	3.63
457263		1890	75.0	30.6	0.071	>10.0	10.05	4.8	19	0.8	38.6	0.16	0.49	2.60	0.050	1.80
457264		1310	85.5	53.6	0.128	>10.0	14.75	6.4	24	1.2	24.1	0.15	0.51	3.60	0.059	3.03
457265		2090	55.2	37.8	0.063	9.24	9.92	6.5	18	0.9	52.1	0.17	0.53	4.07	0.054	2.04
457266		3140	51.6	24.2	0.077	9.46	6.43	4.6	21	0.7	69.5	0.26	0.44	2.82	0.047	1.42
457267		1720	49.2	52.0	0.120	>10.0	6.98	7.0	21	1.2	30.8	0.40	0.48	4.07	0.073	3.28
457268		550	81.6	63.7	0.082	>10.0	19.15	9.2	12	1.2	22.3	0.25	1.00	3.85	0.110	4.76
457269		1820	4.8	28.9	<0.002	0.05	0.35	20.4	1	1.3	465	1.54	0.09	2.55	1.025	0.07
457270		360	64.1	88.8	0.032	>10.0	10.85	13.9	9	1.7	46.5	0.47	0.55	4.82	0.189	5.56
457271		360	41.2	95.4	0.020	8.70	5.99	16.1	8	2.0	42.5	0.58	0.29	4.76	0.255	6.48
457272		570	64.8	82.4	0.055	>10.0	10.90	13.8	12	1.7	39.4	0.63	0.48	4.87	0.208	5.63
457273		750	95.9	56.3	0.114	>10.0	16.90	7.2	12	1.1	14.7	0.22	0.68	4.33	0.084	5.10
457274		800	93.8	50.2	0.102	>10.0	18.15	7.3	15	0.8	30.0	0.24	0.65	3.38	0.087	4.46
457275		740	85.0	55.8	0.113	>10.0	13.70	7.2	15	1.0	16.5	0.19	0.66	3.63	0.077	4.74
457276		60	0.8	0.5	<0.002	0.03	0.10	0.2	1	<0.2	74.2	<0.05	<0.05	0.08	0.006	0.02
457277		740	114.0	59.7	0.103	>10.0	18.25	8.1	16	1.1	27.9	0.24	0.68	3.80	0.091	5.25
457278		680	114.0	63.1	0.077	>10.0	16.90	8.8	17	1.0	33.0	0.31	0.58	3.66	0.104	5.15
457279		940	71.9	53.4	0.069	>10.0	10.30	7.9	18	0.8	50.0	0.29	0.47	3.55	0.098	4.03
457280		1400	69.7	40.3	0.081	>10.0	8.26	6.2	17	0.8	47.2	0.21	0.51	3.21	0.072	3.58



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Page: 2 - D  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18191863**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
457261		44.8	932	3.4	15.4	2000	59.0
457262		70.7	1660	3.7	29.6	3940	70.0
457263		55.8	1130	1.8	27.0	2510	39.9
457264		82.2	1690	2.8	26.3	4360	52.4
457265		50.1	955	1.8	24.5	1620	55.9
457266		54.4	1000	1.8	28.9	1930	55.2
457267		86.2	1680	4.0	37.9	3610	75.1
457268		64.6	1370	4.2	25.1	2090	76.4
457269		0.6	146	3.2	20.2	105	134.0
457270		20.1	384	2.1	13.0	925	123.5
457271		13.7	245	2.4	10.7	623	142.0
457272		37.0	804	3.5	17.2	1490	125.0
457273		106.0	2000	6.6	28.9	2540	52.8
457274		60.9	1280	4.3	21.7	2790	54.6
457275		96.6	2080	7.1	29.0	2070	50.2
457276		0.4	7	<0.1	2.5	11	1.5
457277		73.0	1500	5.1	21.5	2560	56.9
457278		49.3	1160	3.8	19.2	2270	61.2
457279		41.9	794	3.1	21.9	2480	59.8
457280		55.8	1140	3.3	24.8	2600	48.6



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **4-SEPT-2018**  
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Projet: Kan

<b>CERTIFICAT D'ANALYSE VO18191863</b>
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### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

#### ADRESSE DE LABORATOIRE

Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada			
Applique à la Méthode:	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
Applique à la Méthode:	Au-ICP21	Hg-MS42	ME-MS61



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Page: 1  
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## CERTIFICAT VO18191864

Projet: Kan

Bon de commande #: KANDH18-063

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18191864**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457241		4.08	0.096	3.03	3.11	175.5	130	1.74	0.48	2.41	18.05	44.0	25.9	70	2.88	198.5
457242		3.88	0.072	2.70	2.53	94.6	110	1.46	0.31	2.24	20.3	48.8	16.8	57	2.34	358
457243		4.27	0.064	3.14	1.93	362	70	1.16	0.31	2.21	14.85	44.8	14.0	51	1.83	458
457244		4.78	0.023	1.38	5.62	62.3	170	2.81	0.16	1.68	6.88	53.7	16.6	73	2.90	312
457245		4.79	0.052	3.26	2.77	204	80	1.48	0.31	2.47	14.45	55.9	12.7	58	2.06	290
457246		4.64	0.018	1.39	6.33	34.9	170	2.37	0.15	1.71	5.77	56.4	15.4	74	3.37	251
457247		4.65	0.019	0.85	9.25	53.5	280	2.12	0.20	1.06	2.30	61.0	26.8	105	4.84	113.0
457248		4.91	0.055	1.64	6.06	170.0	80	1.41	0.33	1.85	4.16	55.6	23.5	71	3.41	62.8
457249		0.07	0.678	0.23	7.17	20.6	320	1.61	0.13	4.35	0.20	47.7	44.1	191	1.84	59.3
457250		4.71	0.050	1.64	7.40	113.5	100	1.63	0.25	1.32	3.26	55.3	19.9	76	4.26	74.0
457251		4.88	0.024	0.96	8.70	54.0	230	1.29	0.20	1.20	2.60	61.4	21.1	89	5.06	124.0
457252		4.79	0.022	1.06	9.62	46.8	240	1.50	0.25	0.47	0.84	61.9	26.4	117	5.19	108.0
457253		4.71	0.011	1.05	9.15	42.6	230	1.42	0.23	0.60	2.92	59.1	25.0	101	4.80	130.0
457254		4.74	0.011	0.96	8.79	35.3	230	1.51	0.19	0.48	1.81	61.0	20.8	102	4.16	132.5
457255		4.94	0.009	0.99	9.05	29.6	250	1.83	0.16	0.81	1.56	54.8	25.3	113	4.36	174.0
457256		0.25	<0.001	0.01	0.08	0.2	20	0.06	<0.01	33.5	0.02	0.93	0.5	2	<0.05	2.2
457257		4.70	0.035	1.90	6.08	69.3	170	1.52	0.30	3.02	6.79	56.9	23.6	68	3.09	147.0
457258		5.01	0.043	1.67	6.96	101.5	130	1.81	0.27	1.58	4.90	59.4	22.9	79	3.11	119.5
457259		4.73	0.039	1.50	7.55	116.0	130	2.51	0.28	1.93	4.40	59.4	23.9	87	3.59	119.5
457260		3.94	0.029	1.18	8.52	80.6	250	3.65	0.18	0.51	3.94	52.3	23.5	92	4.39	154.5



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 4-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191864**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457241		14.50	8.70	0.16	1.4	0.719	0.053	1.31	29.4	16.8	1.24	2370	131.0	0.05	4.5	270
457242		14.15	7.71	0.16	1.6	0.651	0.086	0.99	32.4	15.3	1.13	3120	153.5	0.04	4.4	286
457243		15.95	5.85	0.19	1.3	0.333	0.060	0.65	28.7	16.5	1.27	3410	149.0	0.02	3.1	295
457244		13.05	15.05	0.14	2.6	0.239	0.056	2.30	32.0	23.0	1.06	2060	56.5	0.16	5.3	210
457245		15.40	8.28	0.19	2.3	0.393	0.120	1.01	34.7	17.1	1.26	3170	130.0	0.04	7.1	240
457246		12.85	17.40	0.14	2.9	0.170	0.084	2.69	33.4	22.6	1.05	1450	55.0	0.19	7.3	174.5
457247		9.34	25.3	0.14	4.4	0.189	0.091	4.31	33.9	25.2	0.92	356	13.70	0.24	13.6	114.0
457248		14.00	16.55	0.15	2.1	0.506	0.095	2.55	32.9	20.9	1.05	535	37.5	0.19	7.5	142.5
457249		7.17	20.5	0.08	3.8	0.029	0.064	0.87	20.5	15.7	2.80	905	2.47	1.69	19.2	142.5
457250		12.75	19.60	0.13	2.3	0.415	0.080	3.26	32.4	17.7	0.86	342	23.8	0.22	8.5	137.5
457251		10.80	22.8	0.14	4.0	0.212	0.094	3.71	36.3	20.4	0.94	285	12.15	0.43	11.9	127.5
457252		9.64	25.4	0.14	4.1	0.175	0.078	3.89	35.9	20.2	0.68	114	10.45	1.06	11.3	110.5
457253		10.70	24.1	0.12	4.1	0.214	0.105	3.72	34.4	21.8	0.77	156	10.15	0.88	10.3	123.0
457254		10.95	23.8	0.13	4.3	0.106	0.088	3.72	34.5	24.1	0.67	144	9.99	0.64	10.7	123.5
457255		11.50	23.8	0.14	4.5	0.146	0.076	4.05	30.5	24.1	0.80	255	10.85	0.30	10.4	133.0
457256		0.15	0.25	<0.05	<0.1	<0.005	<0.005	0.02	1.1	1.3	1.26	91	0.14	0.02	0.1	0.6
457257		12.90	16.50	0.15	2.7	0.383	0.109	2.64	34.5	17.3	1.64	1120	45.7	0.14	7.8	149.5
457258		12.85	19.05	0.14	3.6	0.458	0.079	3.12	34.0	21.4	1.02	568	27.4	0.16	11.3	147.5
457259		12.35	20.9	0.15	3.3	0.501	0.072	3.47	34.5	26.0	1.20	733	29.9	0.17	10.1	143.5
457260		11.20	23.2	0.16	4.0	0.452	0.068	3.98	29.6	36.3	0.78	365	19.50	0.19	9.7	161.0





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 4-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191864**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
457241		1320	72.3	45.2	0.113	>10.0	21.4	7.3	18	1.1	44.3	0.28	0.76	3.44	0.098	3.55
457242		2570	51.2	34.8	0.115	9.20	16.95	5.0	18	0.9	47.2	0.25	0.43	3.60	0.066	2.61
457243		3090	61.9	24.0	0.077	9.27	15.15	4.3	20	0.8	45.7	0.18	0.37	2.85	0.048	1.88
457244		1510	33.4	62.5	0.041	8.34	6.88	10.6	13	1.3	55.0	0.29	0.24	3.90	0.155	4.20
457245		2960	63.1	30.8	0.083	8.95	16.45	5.3	16	1.0	54.0	0.44	0.36	3.72	0.078	2.15
457246		1190	24.5	70.0	0.035	8.05	6.60	11.2	9	1.5	59.7	0.46	0.21	4.44	0.185	4.53
457247		270	29.2	97.1	0.012	7.06	6.46	17.7	4	2.0	48.0	0.82	0.37	5.21	0.372	6.99
457248		360	68.5	69.6	0.042	>10.0	14.85	10.3	8	1.2	54.7	0.43	0.70	4.54	0.160	5.20
457249		1100	14.1	38.0	<0.002	0.03	0.99	18.6	<1	1.7	344	1.15	0.05	4.65	0.891	0.21
457250		310	63.4	80.0	0.027	>10.0	13.20	12.7	6	1.3	51.5	0.45	0.49	4.54	0.199	5.99
457251		220	32.3	88.3	0.019	8.29	6.89	14.8	4	1.8	53.1	0.70	0.36	4.99	0.313	5.58
457252		230	29.9	92.2	0.013	7.48	6.92	17.5	3	1.9	50.3	0.64	0.41	4.94	0.356	5.89
457253		220	26.2	87.4	0.013	7.92	5.77	17.4	4	2.0	50.5	0.61	0.38	4.88	0.325	5.38
457254		230	20.1	86.9	0.011	7.66	4.47	16.8	4	2.0	43.8	0.62	0.28	4.90	0.299	5.12
457255		230	20.1	92.9	0.013	8.06	4.30	17.5	5	2.1	55.7	0.61	0.30	5.06	0.303	5.46
457256		60	0.5	0.4	<0.002	0.01	<0.05	0.2	3	<0.2	80.3	<0.05	<0.05	0.07	0.005	0.02
457257		720	42.2	73.3	0.044	9.53	9.49	11.4	8	1.5	80.3	0.48	0.46	4.60	0.185	4.29
457258		550	51.9	82.2	0.032	>10.0	10.75	12.0	7	1.8	49.1	0.67	0.48	5.19	0.207	5.11
457259		390	60.6	94.2	0.033	>10.0	12.80	12.5	7	1.7	57.8	0.60	0.52	5.36	0.224	6.20
457260		330	49.3	102.0	0.018	9.30	10.20	15.0	9	2.1	41.1	0.58	0.35	4.76	0.280	6.69



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 4-SEPT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191864**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
457241		50.5	1500	3.7	23.9	3030	58.6
457242		70.2	1380	3.2	34.2	3390	66.2
457243		55.0	1180	2.9	29.8	2500	55.3
457244		23.6	488	2.2	17.0	1200	98.6
457245		54.0	1130	3.6	28.3	2690	95.5
457246		23.7	467	2.7	17.0	1160	110.5
457247		12.0	200	2.4	12.0	491	165.0
457248		19.9	400	1.8	11.6	943	82.5
457249		1.1	146	2.2	19.3	128	144.0
457250		16.6	284	1.3	10.7	815	90.3
457251		11.2	187	1.2	12.0	635	160.5
457252		10.7	168	1.1	12.0	189	153.0
457253		10.6	166	1.2	11.8	615	144.5
457254		9.8	159	1.4	12.0	357	158.0
457255		10.4	168	1.8	11.0	304	163.5
457256		0.2	2	0.1	2.0	4	1.9
457257		22.7	443	2.3	14.3	1300	103.5
457258		16.1	287	1.8	14.1	1000	139.5
457259		17.7	356	2.2	11.8	889	122.5
457260		13.9	252	1.8	12.9	728	147.5



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**QUEBEC QC G1K 7R1**

Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **4-SEPT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191864**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada			
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP21	Hg-MS42	ME-MS61	



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18191867

Projet: Kan

Bon de commande #: KANDH18-062

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191867**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457221		2.29	0.037	0.37	1.90	30.5	<10	0.24	0.18	3.04	1.10	40.5	10.6	27	0.16	66.4
457222		2.37	0.036	0.50	1.57	30.5	<10	0.21	0.18	3.17	1.59	39.5	9.5	30	0.14	95.5
457223		2.61	0.055	0.38	1.72	44.7	<10	0.20	0.14	3.00	2.95	33.4	8.7	26	0.18	62.4
457224		2.28	0.288	0.36	1.72	70.2	<10	0.16	0.11	3.18	2.87	29.3	11.6	27	0.16	73.8
457225		2.74	0.109	0.64	2.11	129.0	<10	0.33	0.17	2.98	8.89	41.2	11.4	34	0.26	84.2
457226		2.46	0.022	0.79	2.29	177.5	10	0.44	0.17	2.51	4.82	45.9	14.6	36	0.47	161.0
457227		2.18	0.022	0.70	1.45	137.0	10	0.25	0.16	2.60	3.01	41.4	7.4	32	0.35	127.0
457228		2.56	0.019	0.88	1.77	300	10	0.35	0.17	2.90	1.84	40.5	10.6	36	0.37	188.0
457229		0.07	7.73	1.27	6.01	30.2	310	0.79	0.50	3.02	0.08	30.2	34.9	318	0.66	104.0
457230		3.32	0.034	1.51	1.61	577	20	0.30	0.33	3.60	4.67	45.4	15.4	31	0.49	278
457231		3.56	0.015	0.90	9.05	29.9	310	2.71	0.21	0.93	5.47	68.5	19.6	119	4.45	250
457232		4.55	0.044	1.13	7.72	66.7	120	2.06	0.24	0.97	7.27	49.9	25.0	112	3.78	330
457233		4.23	0.091	2.31	5.02	261	40	1.44	0.44	1.17	12.80	51.9	20.7	74	3.52	127.0
457234		4.98	0.070	1.77	5.61	203	40	1.51	0.32	0.80	10.60	53.6	18.3	70	3.70	183.0
457235		4.62	0.030	0.96	7.81	116.0	90	2.23	0.19	1.28	4.44	63.0	18.4	83	4.53	226
457236		0.25	0.003	0.01	0.07	0.5	1040	0.08	0.01	33.9	0.03	1.20	0.6	1	0.05	1.3
457237		4.72	0.066	2.60	3.45	233	60	1.14	0.31	2.11	18.75	46.9	18.1	61	3.14	209
457238		4.89	0.052	1.73	4.91	232	50	1.58	0.36	1.42	14.35	52.5	17.6	65	3.84	167.5
457239		4.68	0.073	2.81	3.61	275	50	1.25	0.39	1.87	22.5	51.4	21.5	74	4.26	201
457240		4.14	0.033	2.57	2.18	190.0	80	0.81	0.23	0.82	11.30	35.3	16.1	57	2.22	164.0



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191867**

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457221		22.6	5.16	0.08	0.9	0.036	0.030	0.02	17.1	30.3	2.07	13850	12.20	0.01	2.0	22.0
457222		23.6	4.56	0.09	0.9	0.040	0.023	0.01	17.3	24.6	1.97	13950	16.05	<0.01	1.8	28.9
457223		21.8	4.89	0.07	0.7	0.059	0.027	0.01	15.2	24.6	1.89	12500	17.40	<0.01	1.5	21.2
457224		19.60	4.80	0.08	0.6	0.068	0.025	0.03	12.2	24.3	1.62	12450	15.50	0.03	1.1	22.5
457225		21.7	5.85	0.08	1.0	0.182	0.040	0.09	18.7	26.6	1.79	13950	24.1	0.10	1.9	29.5
457226		19.15	6.60	0.09	1.1	0.115	0.026	0.29	21.9	20.0	1.57	10650	35.6	0.13	2.2	59.8
457227		17.60	4.44	0.09	1.1	0.090	0.021	0.20	20.0	13.9	1.65	9610	31.0	0.04	2.5	54.5
457228		21.1	5.30	0.08	1.2	0.063	0.019	0.22	19.8	15.0	2.03	9150	36.9	0.04	3.1	72.8
457229		5.62	13.65	0.08	2.2	0.158	0.047	1.06	14.9	12.0	4.01	753	5.61	1.19	15.0	249
457230		20.6	4.90	0.09	1.1	0.139	0.031	0.26	23.5	11.8	2.14	9550	43.5	0.03	2.9	140.5
457231		12.50	21.7	0.14	4.1	0.139	0.121	4.00	39.1	23.9	0.87	767	24.7	0.23	12.4	152.5
457232		13.80	17.45	0.14	3.1	0.286	0.117	3.46	28.9	18.6	0.77	388	35.9	0.19	9.1	206
457233		16.65	11.95	0.14	1.8	0.765	0.096	2.30	31.7	12.0	0.73	653	75.7	0.10	4.1	236
457234		15.80	13.50	0.18	2.0	0.650	0.087	2.65	32.0	13.6	0.62	279	51.8	0.12	4.0	247
457235		12.35	18.35	0.14	3.0	0.406	0.064	3.64	36.6	20.2	0.96	427	20.1	0.17	5.2	138.5
457236		0.19	0.24	0.12	<0.1	<0.005	<0.005	0.02	1.3	1.2	1.95	162	0.13	0.03	0.1	<0.2
457237		14.20	8.37	0.12	1.5	0.871	0.079	1.57	29.6	9.7	0.98	1120	103.5	0.07	3.3	297
457238		14.90	12.30	0.12	1.8	0.810	0.060	2.22	31.5	12.7	0.87	770	69.0	0.10	4.5	217
457239		14.80	9.33	0.14	1.6	0.867	0.088	1.70	33.4	9.3	0.94	1140	123.5	0.05	4.4	299
457240		11.45	5.71	0.09	0.9	0.491	0.033	0.94	23.0	6.2	0.49	660	78.5	0.03	2.1	204



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Page: 2 - C  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
**29-AOUT-2018**  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191867**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457221		1880	7.8	0.8	0.013	2.05	1.27	3.1	3	<0.2	63.0	0.13	0.26	2.39	0.060	0.06
457222		1840	8.0	0.6	0.015	2.46	1.57	2.7	4	<0.2	64.7	0.12	0.28	2.42	0.055	0.05
457223		1830	6.8	0.6	0.012	2.02	1.50	2.7	4	<0.2	59.6	0.10	0.21	2.12	0.047	0.05
457224		1850	6.0	0.9	0.012	2.30	1.25	2.6	5	<0.2	63.6	0.08	0.18	1.82	0.034	0.06
457225		2050	10.4	2.9	0.023	3.11	2.42	3.3	7	<0.2	70.4	0.12	0.30	3.02	0.045	0.18
457226		1710	14.7	8.8	0.028	5.36	3.00	3.2	9	<0.2	64.0	0.16	0.32	3.29	0.041	0.53
457227		2330	12.3	6.1	0.024	4.42	2.79	2.2	7	<0.2	56.8	0.16	0.32	2.38	0.031	0.37
457228		2100	13.3	6.7	0.030	5.44	3.44	2.5	8	0.2	55.3	0.19	0.38	2.58	0.036	0.43
457229		1110	9.8	33.6	<0.002	0.09	0.75	17.8	1	1.0	278	0.90	0.26	2.23	0.668	0.19
457230		2880	19.1	8.1	0.033	7.70	5.66	2.7	11	0.3	68.1	0.18	0.66	2.45	0.038	0.55
457231		520	11.7	102.0	0.021	7.26	2.75	19.3	5	2.4	54.5	0.74	0.34	5.30	0.354	5.07
457232		400	28.0	84.6	0.039	9.62	6.29	16.1	10	2.0	41.8	0.56	0.33	4.03	0.269	4.66
457233		340	91.7	63.7	0.068	>10.0	20.6	8.5	12	1.2	28.1	0.27	0.91	3.76	0.112	4.46
457234		350	74.7	70.6	0.045	>10.0	17.20	9.3	13	1.2	27.3	0.25	0.66	4.23	0.116	4.82
457235		320	49.3	92.1	0.025	>10.0	11.45	13.6	11	1.6	41.7	0.33	0.38	5.03	0.175	6.29
457236		70	0.7	0.4	<0.002	0.05	0.09	0.2	1	<0.2	114.0	<0.05	<0.05	0.07	0.006	0.02
457237		1070	84.9	48.1	0.090	>10.0	18.85	6.3	17	0.9	40.4	0.24	0.62	3.59	0.086	3.58
457238		610	83.8	64.5	0.059	>10.0	21.7	7.7	15	1.1	37.6	0.30	0.69	4.36	0.100	4.83
457239		970	95.3	55.4	0.120	>10.0	22.9	7.0	21	1.2	38.9	0.30	0.79	3.99	0.107	3.99
457240		570	46.4	29.9	0.065	>10.0	11.95	4.1	15	0.7	17.6	0.15	0.50	2.52	0.053	2.16



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191867**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
457221		7.8	176	0.1	10.4	414	32.7
457222		8.8	158	0.1	10.4	407	31.1
457223		9.3	174	0.1	9.7	525	26.2
457224		8.5	170	0.1	8.5	590	21.7
457225		14.4	229	0.2	11.6	1320	34.6
457226		17.6	324	0.2	11.2	813	42.9
457227		16.0	281	0.2	12.7	544	43.0
457228		15.9	313	0.2	11.4	416	47.5
457229		0.6	143	8.5	13.4	87	90.6
457230		22.5	391	0.5	16.0	779	43.5
457231		19.8	334	1.9	12.3	980	156.0
457232		23.7	422	2.0	11.8	1390	123.5
457233		37.0	799	2.4	14.1	2170	73.4
457234		29.4	546	1.9	11.2	1740	79.0
457235		17.5	267	1.6	9.5	761	111.0
457236		0.2	2	0.1	2.2	5	1.6
457237		47.2	1080	2.8	18.8	2950	57.9
457238		35.8	702	2.3	13.7	2120	67.6
457239		53.7	1390	3.8	21.2	3230	63.4
457240		32.0	835	2.1	13.1	1670	36.3





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date:  
**29-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191867**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada

Applique à la Méthode:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applique à la Méthode:	Au-ICP21	Hg-MS42	ME-MS61
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**QUEBEC QC G1K 7R1**

Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18191871

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Bon de commande #: KANDH18-061

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191871**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457201		4.63	0.004	0.25	8.18	7.6	530	1.51	0.70	1.24	0.20	64.5	8.9	82	4.22	51.3
457202		4.51	0.001	0.05	9.71	1.7	630	2.10	0.18	0.39	0.03	72.4	13.8	98	4.38	71.3
457203		4.36	0.001	0.04	9.33	4.9	590	2.12	0.23	0.43	0.04	72.8	12.7	89	4.06	48.7
457204		4.55	0.001	0.05	8.83	10.9	650	2.13	0.26	1.07	0.05	63.3	16.9	96	4.04	45.2
457205		4.45	<0.001	0.02	7.30	24.0	460	1.30	0.05	4.22	0.10	36.0	25.4	97	2.57	32.0
457206		4.51	<0.001	0.06	6.28	16.6	310	0.75	0.15	4.66	0.15	35.5	25.7	86	1.62	104.0
457207		4.54	<0.001	0.05	7.60	13.8	290	0.81	0.18	1.54	0.09	37.5	29.6	120	1.28	83.3
457208		4.64	<0.001	0.07	8.26	25.5	440	1.10	0.85	2.45	0.14	35.7	32.5	147	2.10	77.4
457209		0.07	2.54	0.46	6.80	11.1	320	1.00	0.16	4.87	0.08	44.4	46.1	313	0.68	73.6
457210		4.63	<0.001	0.21	8.16	1.1	630	1.63	0.48	0.35	0.11	73.6	15.5	78	5.02	65.8
457211		4.56	<0.001	0.05	7.89	0.5	550	1.66	0.04	0.60	0.07	72.7	7.5	73	4.92	22.8
457212		4.50	<0.001	0.14	7.84	1.2	620	1.82	0.18	0.32	0.08	68.4	18.5	67	7.42	47.9
457213		4.56	<0.001	0.08	8.01	1.0	670	1.74	0.12	0.37	0.06	69.4	12.0	66	5.48	35.4
457214		4.67	<0.001	0.09	7.98	<0.2	720	1.94	0.17	0.29	0.07	73.3	12.8	77	4.95	38.9
457215		0.89	0.072	0.67	3.21	13.8	90	0.84	0.20	2.61	10.75	51.1	13.2	54	0.50	95.8
457216		0.30	<0.001	0.01	0.25	<0.2	20	0.12	0.01	32.5	<0.02	1.16	0.8	4	<0.05	2.1
457217		1.85	0.045	0.53	1.55	134.5	30	0.49	0.22	2.35	0.80	33.8	12.5	25	0.24	128.0
457218		2.28	0.121	0.45	1.92	158.0	10	0.34	0.16	2.34	2.20	34.7	15.2	28	0.23	96.7
457219		2.59	0.085	0.35	1.63	68.4	10	0.27	0.17	3.20	1.15	37.9	13.8	21	0.20	68.7
457220		2.36	0.025	0.27	1.51	14.1	10	0.32	0.12	3.10	0.77	30.0	10.8	20	0.21	43.1



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191871**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457201		2.88	13.90	0.12	2.2	0.021	0.030	4.48	31.9	26.7	1.29	422	0.61	0.06	5.8	25.0
457202		5.65	25.0	0.14	2.4	0.007	0.058	4.84	38.2	35.3	1.77	391	0.39	0.06	9.1	39.1
457203		5.70	25.1	0.15	2.5	<0.005	0.052	4.57	38.6	38.2	1.78	357	0.61	0.06	8.0	36.0
457204		5.50	23.0	0.14	2.3	<0.005	0.056	4.51	33.8	37.9	1.76	412	0.72	0.05	7.0	46.0
457205		6.55	17.80	0.14	2.1	0.014	0.058	2.54	18.1	32.1	2.74	889	0.65	0.49	4.7	59.2
457206		5.54	15.20	0.11	2.5	0.017	0.040	1.57	18.3	22.1	2.53	860	3.01	1.12	3.9	59.6
457207		7.22	18.50	0.11	3.1	<0.005	0.059	1.47	18.1	29.6	3.97	598	1.18	1.12	2.1	65.4
457208		7.50	17.50	0.12	3.0	0.007	0.054	2.67	18.2	37.4	4.17	729	1.35	0.04	2.5	75.7
457209		7.43	16.65	0.13	3.3	0.057	0.061	1.00	22.3	6.8	5.54	1020	2.86	1.99	27.9	352
457210		4.92	19.80	0.14	4.2	0.009	0.045	4.54	39.0	36.7	1.96	292	2.10	0.05	6.0	45.1
457211		4.94	18.95	0.14	3.8	<0.005	0.039	4.00	38.1	36.9	2.11	364	0.21	0.27	6.9	21.9
457212		4.24	19.55	0.17	4.2	<0.005	0.036	4.66	36.6	38.9	1.66	198	1.19	0.33	6.3	39.1
457213		3.52	21.0	0.16	4.8	0.005	0.034	4.46	36.2	39.4	1.61	184	0.58	0.54	6.2	34.9
457214		3.45	21.7	0.26	4.4	0.006	0.037	3.13	36.0	45.2	1.55	174	1.19	0.42	6.4	42.3
457215		14.70	9.19	0.18	2.1	0.203	0.070	0.26	23.8	51.8	1.80	2930	50.2	0.02	3.5	124.5
457216		0.16	0.60	0.09	0.1	<0.005	<0.005	0.03	1.1	1.2	1.54	95	0.17	0.15	0.2	<0.2
457217		20.1	4.94	0.16	0.9	0.039	0.027	0.13	13.2	23.5	1.77	4040	19.40	0.01	1.6	57.4
457218		18.90	6.18	0.16	1.0	0.068	0.026	0.07	13.7	34.6	1.63	5070	18.40	0.01	1.8	36.6
457219		22.5	5.38	0.17	0.9	0.046	0.034	0.05	14.3	34.0	1.97	11700	13.75	0.01	2.0	26.2
457220		22.2	5.29	0.16	0.7	0.038	0.026	0.03	11.7	35.6	2.07	12950	10.60	0.01	1.7	16.9



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Page: 2 - C  
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 plus les pages d'annexe  
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Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457201		240	31.8	141.0	0.002	0.13	0.32	14.0	1	0.9	57.0	0.47	1.04	10.90	0.307	0.53
457202		250	6.0	149.0	<0.002	0.53	0.32	15.4	1	1.7	30.4	0.76	0.10	13.95	0.397	0.53
457203		210	6.7	143.0	0.002	0.39	0.32	15.4	1	1.6	29.1	0.62	0.07	14.00	0.350	0.52
457204		240	8.1	134.0	0.002	0.32	0.30	19.3	1	1.5	49.7	0.56	0.08	11.35	0.383	0.51
457205		280	5.2	66.9	0.003	0.16	0.17	26.1	1	0.9	177.0	0.39	<0.05	5.93	0.427	0.29
457206		320	5.7	45.8	0.004	0.36	0.22	21.4	1	0.7	198.5	0.28	0.05	5.69	0.392	0.19
457207		380	7.4	41.8	0.002	0.37	0.20	28.2	1	0.9	72.4	0.14	0.06	6.17	0.274	0.15
457208		460	4.2	70.7	0.002	0.42	0.29	34.0	1	0.9	95.4	0.18	0.91	5.20	0.293	0.25
457209		1890	5.0	27.4	<0.002	0.04	0.33	18.4	<1	1.2	478	1.61	0.10	2.69	1.050	0.06
457210		210	26.8	138.5	0.004	1.03	0.52	10.3	1	1.4	28.5	0.43	0.21	14.15	0.268	0.58
457211		830	3.4	128.5	<0.002	0.63	0.27	9.9	1	1.2	39.2	0.52	0.05	12.85	0.276	0.56
457212		200	13.4	169.5	0.003	0.92	0.37	9.9	1	1.2	31.7	0.43	0.15	13.25	0.263	0.78
457213		550	8.0	141.5	0.002	0.65	0.34	10.7	1	1.3	39.1	0.44	0.08	14.10	0.255	0.66
457214		210	11.0	92.3	0.004	0.69	0.35	11.2	2	1.4	32.5	0.42	0.08	12.65	0.265	0.61
457215		1570	12.3	14.6	0.036	2.77	3.28	5.7	7	0.6	70.7	0.20	0.24	4.34	0.060	0.53
457216		70	0.8	0.6	<0.002	0.01	0.06	1.1	2	<0.2	80.8	<0.05	<0.05	0.09	0.024	0.02
457217		1840	11.0	6.1	0.017	3.45	2.16	3.0	8	0.2	66.5	0.09	0.23	1.99	0.023	0.27
457218		1450	9.2	3.2	0.017	2.99	1.51	3.3	8	<0.2	60.9	0.11	0.25	2.30	0.045	0.16
457219		1730	7.4	2.0	0.007	2.15	1.26	3.0	5	<0.2	70.2	0.14	0.23	2.23	0.057	0.13
457220		1600	6.9	2.0	0.011	1.41	0.92	2.8	4	0.2	68.4	0.11	0.20	1.65	0.048	0.10



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191871**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457201		1.9	113	1.1	9.6	43	73.3
457202		2.1	119	1.2	11.1	76	84.1
457203		2.1	117	1.3	9.1	79	86.5
457204		1.7	148	1.2	8.5	79	77.9
457205		1.2	218	0.7	9.6	73	75.7
457206		1.7	195	0.5	9.6	59	93.4
457207		1.5	258	0.3	8.0	65	115.0
457208		1.5	317	0.6	9.0	81	102.5
457209		0.6	147	3.2	19.9	106	135.5
457210		3.1	90	1.1	10.5	67	146.0
457211		2.4	69	0.8	12.1	85	132.0
457212		3.3	74	0.7	11.5	56	152.5
457213		3.5	70	0.8	11.4	40	168.5
457214		2.6	82	0.9	9.6	37	151.5
457215		23.0	457	0.3	15.8	1490	80.6
457216		0.2	6	0.1	2.3	5	3.2
457217		8.2	182	0.1	11.3	270	35.4
457218		8.1	213	0.1	10.4	470	38.7
457219		7.0	155	0.1	10.4	351	35.3
457220		5.7	141	0.1	9.5	309	26.0



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**Page: Annexe 1**  
**Total # les pages d'annexe: 1**  
**Finalisée date:**  
**29-AOUT-2018**  
**Compte: MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191871**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
 CRU-31 CRU-QC LOG-21 LOG-23  
 PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
 Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 29-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18191874

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Bon de commande #: KANDH18-060

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 29-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191874**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457181		4.71	0.004	0.15	8.36	0.6	470	2.15	0.16	0.21	2.25	65.3	13.8	88	8.22	82.9
457182		2.34	<0.001	0.01	8.30	8.6	510	1.92	0.02	1.26	0.05	66.3	17.4	91	10.25	31.7
457183		4.89	<0.001	0.15	6.63	49.4	100	0.39	0.01	6.33	0.18	8.25	51.7	132	2.64	154.0
457184		4.74	0.001	0.11	6.20	45.6	30	0.35	0.02	6.00	0.11	7.67	51.4	108	2.83	139.5
457185		4.83	0.001	0.10	6.23	27.8	30	0.28	0.02	6.34	0.15	6.82	46.9	112	2.52	154.5
457186		4.64	<0.001	0.08	6.23	23.6	20	0.34	0.01	6.64	0.17	6.91	44.9	108	1.48	137.5
457187		4.82	0.002	0.10	6.64	55.0	20	0.43	0.01	5.91	0.21	8.11	62.6	122	2.60	155.0
457188		3.88	0.001	0.09	6.46	43.2	90	0.39	0.01	6.48	0.29	8.03	47.9	126	2.73	162.5
457189		0.07	0.672	0.20	6.95	20.0	320	1.37	0.13	4.31	0.21	49.2	41.5	185	1.88	53.1
457190		3.11	<0.001	0.02	7.11	5.4	450	1.26	0.01	2.25	0.09	48.2	14.3	79	4.34	34.2
457191		4.58	0.001	0.06	8.41	2.6	580	1.81	0.15	0.18	0.03	68.0	10.7	77	6.01	34.7
457192		4.56	<0.001	0.07	9.19	1.1	550	2.27	0.20	0.15	0.03	76.4	11.0	79	5.88	39.3
457193		4.64	<0.001	0.05	10.40	0.3	580	2.87	0.09	0.11	0.04	83.1	11.5	96	6.71	49.1
457194		4.67	0.021	0.30	9.86	0.2	530	2.52	0.62	0.10	0.10	86.8	12.2	93	6.59	66.5
457195		4.45	<0.001	0.09	9.35	0.8	470	2.42	0.17	0.22	0.04	80.8	11.9	89	5.89	70.2
457196		0.23	<0.001	<0.01	0.11	0.3	40	0.06	0.01	33.7	0.02	1.38	0.8	2	<0.05	1.4
457197		4.50	<0.001	0.06	9.31	0.3	480	2.36	0.12	0.27	0.04	76.9	11.2	92	6.00	47.2
457198		4.52	<0.001	0.04	9.37	<0.2	520	2.48	0.11	0.20	0.04	77.6	10.4	91	5.19	37.3
457199		4.43	<0.001	0.07	7.97	1.0	440	1.97	0.09	0.14	0.03	66.2	8.7	77	3.99	34.3
457200		4.42	<0.001	0.03	8.42	1.1	480	2.11	0.05	0.12	0.02	77.8	3.5	85	3.00	13.7



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 29-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191874**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457181		6.22	22.6	0.19	2.1	0.057	0.048	3.36	32.1	48.0	1.26	553	4.61	0.05	6.9	50.7
457182		4.97	21.9	0.21	2.1	<0.005	0.025	3.47	32.8	32.7	1.09	446	0.64	0.93	6.8	38.3
457183		8.52	15.80	0.12	1.1	0.037	0.063	1.02	2.8	40.9	4.10	1360	0.20	0.86	2.5	117.5
457184		8.21	14.40	0.12	1.0	0.018	0.056	0.61	2.6	38.7	4.55	1320	0.18	1.14	1.4	182.5
457185		8.34	14.80	0.11	0.8	0.020	0.068	0.58	2.3	39.5	4.56	1340	0.20	1.10	1.6	168.5
457186		8.14	14.90	0.10	0.7	0.026	0.057	0.32	2.3	34.5	4.03	1270	0.22	1.45	2.6	120.5
457187		8.82	16.65	0.13	1.0	0.019	0.082	0.46	2.7	40.8	4.38	1290	0.19	1.42	3.0	128.5
457188		8.80	15.70	0.12	0.9	0.029	0.075	0.86	2.7	36.1	3.80	1300	0.18	1.14	2.9	121.0
457189		7.10	19.10	0.16	3.8	0.032	0.065	0.86	20.8	14.8	2.80	893	2.35	1.67	18.6	135.5
457190		5.95	19.75	0.16	2.2	<0.005	0.031	2.94	24.2	40.4	1.97	649	0.24	0.48	6.1	36.1
457191		4.12	23.4	0.19	3.0	0.009	0.047	3.39	34.3	38.2	1.11	259	0.43	0.07	7.9	31.1
457192		4.23	25.6	0.22	2.6	0.006	0.048	3.37	38.6	37.5	1.02	222	0.59	0.44	8.5	32.8
457193		4.48	30.5	0.24	3.1	0.006	0.062	3.22	40.1	42.3	1.11	197	0.83	0.51	9.9	35.5
457194		4.39	28.6	0.25	2.9	0.007	0.055	3.17	42.4	39.4	1.00	168	1.51	0.38	9.1	38.0
457195		4.27	26.2	0.23	2.7	0.010	0.051	3.52	40.3	38.0	0.99	173	1.98	0.40	8.7	38.1
457196		0.14	0.34	0.11	0.1	<0.005	<0.005	0.03	1.2	1.3	1.23	82	0.11	0.03	0.2	<0.2
457197		4.62	26.6	0.21	2.7	0.010	0.063	3.46	37.7	38.7	1.14	187	0.72	0.38	8.8	32.7
457198		5.31	26.5	0.25	2.6	0.008	0.057	3.46	39.1	40.5	1.33	205	0.50	0.12	8.4	33.1
457199		4.63	22.0	0.22	1.9	0.018	0.046	3.47	33.6	36.8	1.22	194	0.30	0.06	7.3	30.8
457200		2.17	15.75	0.29	2.3	0.012	0.024	3.43	40.0	27.3	0.68	133	1.50	0.08	7.9	13.9



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 29-AOUT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191874**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
457181		200	9.0	94.6	0.013	1.35	0.92	11.4	4	1.4	17.9	0.58	0.09	11.10	0.243	0.72
457182		230	4.5	105.5	0.004	0.19	0.24	13.8	1	0.7	48.5	0.55	<0.05	11.25	0.273	0.77
457183		340	4.0	37.2	0.002	0.03	0.12	41.1	1	0.5	178.5	0.16	<0.05	0.27	0.548	0.21
457184		330	5.7	31.9	<0.002	0.08	0.13	34.9	1	0.4	166.5	0.09	<0.05	0.21	0.427	0.21
457185		290	4.6	27.6	0.002	0.06	0.13	37.7	1	0.5	170.5	0.11	<0.05	0.16	0.522	0.18
457186		310	3.6	15.3	0.002	0.10	0.17	37.7	1	0.5	167.5	0.16	<0.05	0.18	0.556	0.11
457187		340	3.3	25.9	0.002	0.04	0.26	42.4	1	0.7	160.0	0.19	<0.05	0.21	0.612	0.19
457188		360	3.7	37.3	<0.002	0.07	0.14	41.5	1	0.6	176.0	0.18	<0.05	0.21	0.623	0.19
457189		1100	13.6	39.2	<0.002	0.02	0.97	18.4	1	1.7	335	1.12	0.05	4.60	0.878	0.18
457190		210	3.1	92.5	<0.002	0.08	0.31	14.5	1	0.9	65.3	0.49	<0.05	8.27	0.296	0.37
457191		200	9.2	98.1	0.002	0.32	0.31	10.3	1	1.6	21.7	0.61	0.07	12.75	0.285	0.54
457192		160	10.2	101.0	0.002	0.52	0.43	11.0	2	1.6	28.5	0.62	0.08	14.20	0.310	0.57
457193		190	7.5	92.1	0.002	0.52	0.38	13.6	2	2.1	34.7	0.76	0.05	16.35	0.355	0.65
457194		200	70.6	96.0	0.005	0.66	0.49	13.0	2	2.0	34.2	0.70	0.25	15.80	0.341	0.67
457195		230	14.9	107.5	0.004	0.63	0.44	11.9	2	1.9	36.4	0.67	0.06	14.30	0.322	0.57
457196		50	0.5	0.8	<0.002	0.01	<0.05	0.3	2	<0.2	81.3	<0.05	<0.05	0.14	0.007	<0.02
457197		240	13.1	108.0	<0.002	0.47	0.35	12.2	1	1.9	35.9	0.69	<0.05	13.65	0.327	0.58
457198		230	7.4	107.5	0.002	0.39	0.32	11.4	1	1.9	26.3	0.69	0.08	13.75	0.316	0.60
457199		170	8.9	110.0	<0.002	0.26	0.25	9.9	1	1.6	20.8	0.51	0.05	11.20	0.256	0.52
457200		170	5.9	90.3	0.008	0.10	0.31	11.6	1	1.1	29.5	0.60	0.44	12.55	0.273	0.46



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18191874**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
457181		4.6	220	1.9	7.2	297	66.8
457182		2.3	127	1.6	8.3	79	68.5
457183		0.1	308	0.3	9.3	95	30.2
457184		0.1	260	0.1	11.6	85	30.8
457185		<0.1	283	0.1	15.3	88	23.8
457186		<0.1	288	0.3	18.6	86	24.5
457187		0.1	323	0.4	21.7	97	29.6
457188		0.1	322	0.3	14.8	99	33.2
457189		1.0	141	2.3	19.0	126	141.5
457190		1.3	104	1.0	10.1	57	76.0
457191		1.8	64	1.3	9.0	63	100.0
457192		2.0	72	1.4	8.3	67	88.0
457193		2.4	96	1.7	8.7	81	103.5
457194		2.8	109	1.7	8.5	72	96.6
457195		2.6	109	1.5	8.8	69	91.7
457196		0.1	2	<0.1	2.0	3	2.0
457197		2.3	93	1.4	7.8	71	90.9
457198		2.2	82	1.4	8.1	78	83.5
457199		1.6	67	1.4	5.7	68	67.8
457200		3.4	106	1.4	7.0	29	78.6



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
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Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18191874**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
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**CERTIFICAT VO18191877**

Projet: Kan  
Bon de commande #: KANDH18-059  
Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18191877**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457161		4.91	0.001	0.45	8.61	6.6	200	1.35	0.09	1.85	1.33	94.5	4.8	99	4.74	152.0
457162		4.59	0.002	0.34	9.09	9.0	220	1.49	0.08	1.18	2.17	108.5	12.0	109	4.95	102.5
457163		4.97	0.002	0.37	7.07	84.0	140	1.09	0.15	2.98	0.95	94.5	43.6	79	3.28	80.5
457164		5.18	<0.001	0.43	6.99	77.7	130	1.13	0.21	2.72	0.95	104.0	46.2	77	3.19	90.4
457165		4.84	<0.001	0.32	9.04	13.4	200	1.65	0.13	0.74	1.27	107.0	13.0	111	4.42	93.9
457166		4.89	<0.001	0.35	7.93	45.5	160	1.39	0.19	2.89	1.22	120.5	35.3	84	3.70	90.0
457167		4.91	<0.001	0.30	9.54	17.8	200	1.90	0.13	1.64	2.32	120.0	19.2	103	4.68	92.7
457168		4.80	0.003	0.34	8.63	26.4	190	1.42	0.16	1.96	2.23	76.5	21.8	97	4.07	126.0
457169		0.07	7.75	1.32	5.88	34.4	300	0.86	0.45	2.88	0.09	30.3	41.6	321	0.65	107.0
457170		4.94	0.003	0.43	8.30	14.0	210	1.19	0.07	2.19	2.35	65.5	19.6	82	3.77	221
457171		4.91	0.008	0.54	10.10	52.2	280	1.43	0.22	0.14	4.28	54.9	27.3	151	4.47	184.0
457172		5.13	0.017	0.63	10.35	76.0	300	1.78	0.23	0.14	3.14	64.4	39.1	174	4.80	113.0
457173		4.91	0.014	0.48	10.35	66.8	320	1.91	0.18	0.14	2.13	64.2	29.2	169	4.64	99.1
457174		5.36	0.036	1.05	5.84	147.0	30	1.41	0.33	0.28	4.06	55.0	30.3	83	2.75	147.5
457175		4.36	0.053	1.27	3.07	142.0	30	0.88	0.30	0.99	3.09	38.2	47.1	56	1.35	197.0
457176		0.30	<0.001	0.01	0.07	0.6	20	0.05	0.01	33.0	0.02	0.95	0.9	3	<0.05	1.8
457177		3.83	0.002	0.25	4.73	0.8	170	2.82	0.12	0.82	0.40	44.4	17.4	68	12.45	27.7
457178		4.94	0.004	0.42	6.46	0.9	350	2.85	0.17	0.27	0.17	56.7	21.3	83	15.60	31.0
457179		4.77	0.005	0.33	7.44	1.0	410	2.48	0.20	0.12	0.10	69.2	25.1	106	18.45	57.9
457180		4.73	0.005	0.23	8.59	0.3	480	2.82	0.18	0.17	2.60	62.8	17.6	97	10.20	58.5



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Page: 2 - B  
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**CERTIFICAT D'ANALYSE VO18191877**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457161		10.85	25.4	0.30	9.9	0.069	0.094	3.51	48.1	23.0	1.27	307	8.37	0.31	30.8	127.5
457162		7.68	27.8	0.29	10.9	0.118	0.138	3.62	55.7	16.5	0.85	197	9.80	0.31	38.0	85.9
457163		11.85	23.4	0.28	11.9	0.069	0.091	2.55	45.5	41.8	2.12	518	6.20	0.23	46.2	82.8
457164		13.10	23.1	0.28	12.8	0.072	0.091	2.41	50.3	50.4	2.12	485	7.06	0.25	48.9	103.0
457165		8.48	29.2	0.29	11.8	0.087	0.119	3.51	54.1	43.5	1.14	153	9.17	0.26	46.3	84.3
457166		10.45	26.7	0.28	14.2	0.085	0.107	3.14	58.4	33.9	1.99	488	7.49	0.23	54.8	90.4
457167		7.94	30.6	0.29	12.0	0.125	0.153	3.88	58.9	25.7	1.26	258	11.40	0.27	68.0	93.4
457168		8.76	23.5	0.24	5.6	0.192	0.155	3.69	39.7	20.7	1.31	333	10.70	0.24	20.7	120.5
457169		5.41	15.35	0.18	2.5	0.167	0.046	1.03	13.4	15.9	3.89	706	6.19	1.17	16.1	240
457170		12.35	22.2	0.22	4.4	0.125	0.164	3.73	38.4	21.5	1.39	539	10.30	0.22	15.0	203
457171		10.90	25.2	0.22	4.3	0.336	0.222	3.85	31.8	25.2	0.56	39	13.50	0.25	20.6	178.0
457172		11.00	26.9	0.23	4.6	0.293	0.162	4.01	37.1	25.6	0.55	31	14.30	0.25	20.5	177.0
457173		9.21	26.6	0.25	4.8	0.248	0.139	4.03	36.7	25.5	0.54	33	13.25	0.24	25.4	153.5
457174		19.15	18.40	0.24	3.9	0.650	0.197	2.41	29.5	29.8	0.66	173	18.80	0.13	13.1	160.5
457175		23.0	11.75	0.23	2.0	0.768	0.147	1.05	20.6	24.4	0.95	882	17.05	0.06	7.9	103.5
457176		0.18	0.28	0.07	<0.1	<0.005	<0.005	0.02	1.2	1.1	1.65	88	0.09	0.03	0.1	<0.2
457177		16.85	15.40	0.17	1.6	0.020	0.048	2.41	23.2	36.8	2.27	7240	3.30	0.03	11.0	45.4
457178		13.55	21.0	0.19	1.9	0.017	0.055	3.86	29.2	49.4	1.79	1060	3.47	0.03	12.7	56.9
457179		12.00	22.4	0.17	2.7	0.032	0.063	3.65	34.9	54.0	1.76	997	4.12	0.04	20.9	71.5
457180		7.16	23.8	0.19	2.1	0.061	0.053	3.62	32.8	49.9	1.19	861	4.09	0.05	9.6	57.3





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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18191877**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457161		280	10.2	74.2	0.013	5.78	2.53	18.4	4	3.1	58.4	1.76	0.15	8.94	0.272	4.31
457162		350	9.3	69.6	0.010	4.28	2.26	16.9	2	4.0	55.7	2.85	0.08	10.10	0.331	4.49
457163		240	13.6	53.5	0.006	8.52	3.14	14.4	4	3.4	62.4	2.73	0.19	10.05	0.246	2.95
457164		270	15.2	53.2	0.008	9.00	4.15	18.8	4	3.2	59.1	2.92	0.27	10.25	0.246	2.68
457165		310	13.6	70.6	0.007	4.43	2.40	20.0	3	4.1	44.7	2.56	0.09	10.50	0.347	3.99
457166		280	14.3	65.2	0.008	6.29	3.23	16.8	3	4.2	69.1	3.40	0.24	11.85	0.282	3.39
457167		380	11.8	74.8	0.010	4.36	2.59	20.9	3	4.8	67.1	3.61	0.12	11.00	0.391	4.34
457168		430	14.2	72.0	0.007	5.33	3.41	23.7	4	2.7	66.6	1.23	0.18	5.70	0.405	3.87
457169		1070	9.3	36.2	0.003	0.08	0.77	19.5	1	1.0	271	0.88	0.27	2.09	0.654	0.20
457170		560	12.5	80.7	0.016	6.45	2.98	27.5	4	2.2	89.1	0.90	0.07	4.72	0.400	3.72
457171		430	31.6	78.5	0.017	8.37	8.02	24.8	3	2.9	35.9	1.22	0.23	4.42	0.559	5.12
457172		490	40.6	84.7	0.017	9.31	10.85	27.6	3	3.1	37.6	1.25	0.36	4.70	0.582	5.47
457173		510	35.5	84.4	0.016	7.90	9.71	25.5	3	3.3	38.1	1.40	0.40	5.09	0.619	5.46
457174		320	62.5	55.8	0.027	>10.0	16.35	13.1	6	3.2	29.8	0.84	1.02	4.85	0.221	4.07
457175		320	67.7	28.2	0.018	>10.0	16.55	8.5	11	2.3	35.3	0.46	2.14	3.35	0.121	2.23
457176		60	0.8	0.5	<0.002	0.05	0.10	0.2	2	<0.2	78.7	<0.05	<0.05	0.07	0.006	0.02
457177		450	24.9	111.5	0.006	2.48	0.94	9.4	2	1.1	42.3	0.68	0.07	5.36	0.239	0.88
457178		220	20.4	153.5	0.008	4.02	1.79	12.7	3	1.4	16.1	0.76	0.12	7.41	0.260	1.14
457179		340	19.6	145.0	0.006	3.16	1.71	17.2	3	1.6	14.8	1.18	0.11	8.17	0.404	1.23
457180		220	12.7	107.5	0.007	1.89	1.45	13.0	3	1.6	16.7	0.70	0.08	10.15	0.289	0.88



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Page: 2 - D  
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 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18191877**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
457161		8.9	129	0.7	22.8	353	349
457162		10.2	141	0.9	23.8	575	372
457163		6.8	96	0.7	27.0	271	413
457164		7.2	95	0.7	29.2	286	442
457165		9.0	132	0.9	25.7	369	420
457166		8.1	112	0.8	28.2	352	473
457167		11.5	149	1.0	27.9	646	422
457168		12.2	156	0.9	15.1	672	206
457169		0.5	138	9.1	13.5	82	97.0
457170		16.0	167	0.8	15.3	741	169.0
457171		19.9	223	1.1	13.4	1330	160.5
457172		20.1	233	1.3	14.8	922	173.5
457173		21.3	236	1.4	15.4	637	181.0
457174		15.7	201	0.9	13.0	1210	144.0
457175		6.8	115	0.8	9.0	874	80.2
457176		0.1	2	<0.1	1.9	5	1.6
457177		4.3	184	0.9	6.9	105	63.9
457178		5.6	218	1.8	8.2	117	71.4
457179		6.4	257	1.8	10.3	154	98.6
457180		5.4	253	2.3	8.6	280	74.5





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Compte: MINVIR

## CERTIFICAT VO18191883

Projet: Kan

Bon de commande #: KANDH18-058

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
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 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18191883**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457141		4.81	0.002	0.32	10.30	35.4	250	1.40	0.10	0.69	3.48	68.6	14.9	125	6.05	174.5
457142		4.77	<0.001	0.27	10.75	22.6	260	1.25	0.05	0.34	4.27	59.7	11.0	127	5.96	252
457143		4.67	<0.001	0.26	9.63	34.0	220	1.35	0.06	0.57	4.21	55.8	12.7	116	4.77	335
457144		4.79	<0.001	0.33	10.85	49.9	270	1.29	0.09	0.53	4.48	66.2	18.4	134	6.12	167.0
457145		4.89	0.006	0.60	8.58	68.9	100	1.32	0.18	1.78	4.87	72.6	26.1	104	4.72	242
457146		4.74	0.002	0.38	9.70	54.0	220	1.51	0.11	0.71	2.85	66.8	20.5	115	4.96	257
457147		4.85	0.002	0.40	9.74	51.6	240	1.33	0.14	0.85	2.33	88.6	17.9	140	5.51	180.0
457148		4.74	0.004	0.45	9.10	59.2	230	1.26	0.17	1.03	3.15	81.2	24.7	104	5.41	200
457149		0.07	2.57	0.46	7.07	12.1	330	1.04	0.17	4.99	0.10	44.5	56.1	326	0.68	84.2
457150		4.86	0.025	0.99	7.87	145.5	60	1.50	0.28	1.96	7.14	64.5	30.1	99	5.38	104.5
457151		4.82	0.031	1.23	4.29	236	50	0.91	0.34	3.26	10.95	47.6	21.9	66	3.94	127.0
457152		5.21	0.025	1.23	4.61	212	40	1.22	0.35	3.16	9.90	40.9	21.3	64	3.98	152.0
457153		4.92	0.036	1.40	4.21	281	40	0.90	0.37	2.09	11.20	43.5	25.2	72	4.12	142.0
457154		4.90	0.035	1.46	3.70	259	50	0.67	0.32	3.72	15.05	40.8	21.1	72	3.81	173.5
457155		4.79	0.031	1.28	5.67	210	40	1.35	0.28	3.33	10.60	57.7	21.8	78	4.26	172.0
457156		0.25	<0.001	0.01	0.09	<0.2	20	0.08	0.01	35.0	0.08	0.98	0.9	2	0.05	2.2
457157		4.79	0.018	0.95	8.21	118.0	90	1.54	0.27	1.50	5.98	72.0	21.1	82	4.82	133.5
457158		4.66	0.009	0.76	9.34	58.9	220	1.18	0.23	0.62	1.77	71.0	23.7	96	5.94	126.5
457159		5.06	0.010	0.73	9.35	53.8	260	1.17	0.26	0.72	2.58	67.9	25.2	96	6.09	118.5
457160		4.89	0.005	0.56	9.17	34.1	220	1.93	0.21	2.12	0.92	68.0	20.5	93	5.56	120.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18191883**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457141		9.27	27.9	0.24	5.0	0.188	0.128	3.70	39.9	56.6	0.85	91	10.90	0.53	20.1	133.5
457142		9.45	27.6	0.24	5.1	0.182	0.148	3.72	35.6	56.9	0.77	45	10.30	0.50	22.6	142.0
457143		12.20	24.1	0.23	4.5	0.176	0.138	3.25	33.8	61.6	0.88	75	8.91	0.49	18.3	177.5
457144		9.16	28.9	0.23	5.8	0.196	0.153	3.90	38.9	55.1	0.75	70	11.15	0.58	28.5	133.5
457145		13.10	23.5	0.27	5.3	0.303	0.130	2.75	41.7	55.2	1.35	259	24.7	0.54	16.5	174.5
457146		11.65	26.7	0.26	5.3	0.163	0.109	3.25	38.1	61.1	0.93	104	11.55	0.58	20.1	153.0
457147		9.77	28.0	0.27	6.2	0.134	0.111	3.67	50.3	47.5	0.85	121	12.35	0.51	22.9	132.5
457148		9.59	26.3	0.28	6.2	0.190	0.103	3.48	46.7	35.5	0.71	129	12.70	0.51	20.1	134.5
457149		7.81	19.45	0.18	3.5	0.053	0.063	1.03	22.4	9.9	5.75	1060	3.23	2.08	30.0	365
457150		12.45	20.7	0.27	3.6	0.647	0.076	2.68	37.7	43.4	1.06	313	37.2	0.63	14.3	142.0
457151		14.75	11.90	0.28	1.6	0.934	0.077	1.41	30.2	26.1	1.55	558	65.9	0.41	8.4	210
457152		15.35	12.85	0.23	1.6	0.860	0.076	1.47	25.3	30.9	1.55	482	66.0	0.46	8.5	217
457153		15.70	12.20	0.26	1.6	1.005	0.083	1.49	27.6	23.8	1.02	340	79.8	0.32	8.3	246
457154		15.00	10.05	0.22	1.5	0.969	0.109	1.30	26.6	17.3	1.82	712	88.5	0.31	6.9	292
457155		14.30	15.50	0.25	2.5	0.893	0.081	1.85	35.4	42.3	1.69	581	61.1	0.42	7.6	227
457156		0.15	0.36	0.07	0.1	<0.005	<0.005	0.02	1.2	1.1	1.23	86	0.23	0.04	0.1	0.5
457157		12.75	22.5	0.24	3.8	0.516	0.095	2.85	42.2	54.1	0.95	201	24.7	0.53	5.9	140.5
457158		10.05	25.8	0.21	4.3	0.251	0.083	3.68	41.6	28.1	0.56	69	12.15	0.45	8.0	116.0
457159		10.70	25.6	0.22	4.3	0.228	0.112	3.82	40.0	28.8	0.68	95	12.80	0.42	8.0	124.5
457160		10.25	24.5	0.22	3.9	0.134	0.088	3.63	41.3	32.7	1.44	300	9.68	0.38	8.0	113.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
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**CERTIFICAT D'ANALYSE VO18191883**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457141		530	14.9	84.1	0.010	5.71	3.30	28.6	5	2.7	81.0	1.26	0.13	5.09	0.557	5.64
457142		530	9.2	80.0	0.009	5.19	1.81	30.3	5	2.7	69.2	1.28	0.09	4.59	0.625	5.64
457143		580	10.2	72.3	0.010	6.86	1.85	27.3	6	2.2	76.5	1.15	0.08	4.13	0.582	4.45
457144		560	13.9	86.7	0.014	6.06	3.15	28.3	5	3.0	86.9	1.71	0.13	5.52	0.681	5.71
457145		320	24.5	68.3	0.028	8.99	5.74	20.7	8	2.1	91.9	1.07	0.25	6.24	0.298	4.18
457146		380	14.6	73.5	0.012	7.26	3.39	23.7	6	2.4	98.7	1.21	0.16	5.59	0.457	4.50
457147		410	14.8	83.4	0.012	6.51	3.61	26.9	5	2.5	68.2	1.35	0.16	6.84	0.493	5.18
457148		440	20.2	81.7	0.012	7.07	4.81	20.8	8	2.5	70.4	1.20	0.19	6.56	0.418	5.31
457149		1930	5.5	29.9	<0.002	0.04	0.33	22.2	1	1.3	496	1.63	0.09	2.82	1.085	0.08
457150		480	48.6	67.4	0.043	>10.0	13.25	19.8	12	1.7	91.4	0.86	0.39	5.00	0.327	5.12
457151		410	62.2	41.2	0.071	>10.0	19.90	10.1	15	1.1	52.5	0.50	0.50	3.91	0.172	3.58
457152		370	64.6	42.6	0.060	>10.0	20.0	10.5	16	1.1	58.0	0.56	0.51	3.91	0.157	3.73
457153		450	68.7	44.6	0.076	>10.0	22.6	11.8	18	1.2	44.7	0.52	0.55	3.67	0.191	4.05
457154		590	57.5	40.2	0.111	>10.0	19.75	10.4	19	1.1	40.2	0.45	0.51	3.30	0.172	3.47
457155		580	59.8	51.0	0.064	>10.0	18.40	12.7	16	1.4	72.7	0.50	0.46	4.77	0.166	4.35
457156		60	1.8	0.7	<0.002	0.04	0.10	0.2	1	<0.2	86.4	<0.05	<0.05	0.07	0.005	0.03
457157		330	44.1	73.7	0.032	>10.0	12.35	14.5	10	1.8	92.0	0.38	0.54	5.67	0.144	5.53
457158		220	30.0	86.9	0.013	8.04	8.08	18.7	5	2.0	59.2	0.47	0.48	5.62	0.253	6.56
457159		220	28.1	92.1	0.019	7.96	7.15	19.3	4	1.9	56.0	0.47	0.43	5.51	0.262	6.18
457160		220	20.5	83.7	0.010	6.67	5.17	22.2	4	1.7	69.7	0.45	0.30	5.20	0.278	5.21



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
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**CERTIFICAT D'ANALYSE VO18191883**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
457141		15.1	204	1.3	13.9	772	180.0
457142		15.9	193	1.3	13.9	975	190.0
457143		14.6	179	1.1	13.3	966	165.5
457144		16.4	202	1.3	16.0	984	220
457145		15.8	330	1.1	16.3	1100	187.5
457146		12.8	189	1.0	15.4	629	191.5
457147		13.1	184	1.1	17.7	462	225
457148		11.5	154	1.1	17.9	555	227
457149		0.6	152	3.5	21.8	110	144.5
457150		22.6	424	1.8	16.5	1170	135.0
457151		30.7	704	2.3	16.7	1670	64.8
457152		30.2	675	2.1	16.4	1530	66.1
457153		32.0	874	2.8	15.8	1680	67.3
457154		37.2	1030	3.1	21.8	2310	59.3
457155		28.6	755	2.3	19.2	1600	92.6
457156		0.2	3	<0.1	2.8	7	1.8
457157		17.0	289	1.0	11.7	1040	133.0
457158		12.5	208	0.9	11.0	402	157.0
457159		13.6	203	0.8	11.5	634	159.5
457160		10.7	166	0.7	12.7	253	145.0





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date:  
**29-AOUT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191883**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
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## CERTIFICAT VO18191885

Projet: Kan

Bon de commande #: KANDH18-057

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457121		4.23	0.024	1.03	3.15	0.9	40	1.06	0.27	0.24	0.63	36.9	10.8	53	1.09	359
457122		4.16	0.063	1.31	4.78	123.0	30	1.58	0.29	0.98	1.46	61.5	42.3	79	2.28	103.5
457123		5.24	0.048	1.04	4.01	154.5	40	1.00	0.34	0.28	2.52	49.8	36.3	70	1.76	109.0
457124		5.11	0.032	0.77	6.52	116.5	60	1.44	0.20	1.05	2.69	53.8	25.0	88	3.27	146.5
457125		5.03	0.009	0.43	9.02	57.4	210	1.68	0.16	0.85	1.73	76.1	26.0	119	4.07	137.0
457126		5.19	0.026	0.87	7.19	117.0	80	1.55	0.20	0.26	2.84	44.6	27.2	121	3.25	168.5
457127		5.27	0.034	1.09	4.85	147.0	50	1.07	0.25	0.86	2.89	64.2	28.8	63	2.31	141.0
457128		4.95	0.012	0.63	9.85	65.5	280	2.15	0.18	0.75	2.83	66.4	29.9	152	4.48	129.0
457129		0.07	0.680	0.23	7.05	19.8	330	1.60	0.13	4.39	0.20	50.2	43.7	184	1.91	56.4
457130		4.79	0.003	0.32	9.20	31.4	230	1.55	0.11	0.79	2.86	75.4	18.6	118	4.27	150.5
457131		4.74	0.004	0.40	9.17	58.5	220	1.51	0.21	0.66	1.72	57.5	30.3	103	4.61	126.5
457132		4.85	0.005	0.50	9.58	49.0	250	1.95	0.18	0.81	2.62	74.3	23.5	97	5.23	120.5
457133		4.83	0.012	0.67	7.41	74.0	110	1.36	0.21	2.22	2.19	60.9	18.1	74	4.23	124.5
457134		4.73	0.016	0.77	7.60	92.4	90	1.57	0.22	2.21	3.09	61.4	18.9	77	4.32	107.5
457135		5.05	0.028	1.17	7.41	130.5	50	1.17	0.23	1.17	4.42	60.2	19.9	76	4.79	119.0
457136		0.27	<0.001	0.02	0.38	2.4	40	0.18	0.02	34.4	0.02	1.65	3.0	6	0.18	12.8
457137		5.08	0.029	1.23	5.07	140.5	80	0.93	0.20	3.93	6.92	50.8	16.8	63	3.17	138.0
457138		4.82	0.016	0.87	4.91	105.0	110	1.51	0.14	5.21	6.08	42.4	13.2	54	2.92	152.0
457139		5.13	0.016	0.83	5.53	91.8	120	1.26	0.14	5.00	3.51	47.7	14.1	61	3.20	139.5
457140		4.81	0.018	0.99	5.61	109.5	100	1.40	0.23	4.12	4.70	49.4	21.4	63	3.50	175.5



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191885**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457121		31.8	10.90	0.23	1.9	0.133	0.052	1.10	20.2	20.6	0.71	168	14.90	0.06	3.5	245
457122		19.75	15.55	0.25	3.6	0.274	0.107	2.22	33.1	19.7	0.72	433	15.20	0.11	12.7	94.6
457123		20.6	14.65	0.25	2.5	0.469	0.146	1.53	26.9	24.9	0.66	302	19.35	0.08	9.3	117.5
457124		16.15	20.2	0.25	4.2	0.331	0.159	3.00	27.3	25.1	0.85	370	16.15	0.16	13.2	164.5
457125		10.70	25.6	0.21	5.5	0.175	0.124	3.83	41.5	30.8	0.93	236	12.55	0.21	17.0	134.5
457126		16.70	20.5	0.22	3.9	0.333	0.131	3.10	22.9	31.1	0.60	98	15.85	0.17	9.0	202
457127		20.0	17.95	0.27	4.3	0.479	0.125	1.91	33.8	28.3	0.85	290	19.10	0.12	14.0	159.5
457128		10.75	26.2	0.21	5.0	0.259	0.163	4.30	37.8	30.6	0.80	156	13.30	0.27	18.2	147.0
457129		7.27	20.5	0.15	4.0	0.020	0.072	0.88	22.5	16.1	2.86	911	2.47	1.71	19.1	142.0
457130		9.04	26.7	0.22	7.2	0.163	0.160	3.89	42.3	22.8	0.67	126	10.00	0.30	23.0	130.5
457131		10.95	24.6	0.22	4.0	0.176	0.099	3.59	33.7	35.4	0.75	97	10.30	0.36	8.1	123.0
457132		9.89	27.1	0.23	4.9	0.215	0.091	3.68	43.6	33.4	0.70	99	12.55	0.53	13.4	120.5
457133		11.35	20.9	0.22	2.8	0.287	0.073	2.70	36.3	24.3	1.22	233	16.30	0.56	10.2	142.5
457134		12.35	20.0	0.22	2.4	0.390	0.070	2.69	35.8	28.4	1.22	229	21.0	0.59	7.8	141.0
457135		14.55	20.8	0.24	2.3	0.505	0.094	2.66	35.4	25.9	0.64	101	23.9	0.61	8.4	168.5
457136		0.22	1.11	0.08	0.2	<0.005	<0.005	0.10	1.5	3.8	1.49	92	0.09	0.17	0.4	6.9
457137		15.65	14.05	0.22	1.6	0.587	0.117	1.64	30.4	25.9	1.88	414	28.1	0.54	6.9	166.5
457138		13.70	13.30	0.17	1.6	0.539	0.080	1.40	25.4	44.5	2.54	576	25.7	0.45	7.9	143.0
457139		12.45	14.85	0.20	1.8	0.367	0.059	1.56	28.5	43.6	2.46	559	21.3	0.53	7.4	137.5
457140		14.25	15.40	0.19	1.9	0.444	0.073	1.76	29.7	39.0	2.03	484	31.8	0.46	8.2	169.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191885**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457121		190	31.0	24.8	0.015	>10.0	6.16	7.8	11	1.3	11.5	0.18	1.94	2.49	0.066	1.07
457122		500	67.8	56.3	0.017	>10.0	15.85	12.8	7	2.3	31.7	0.77	2.43	4.07	0.199	2.81
457123		230	60.5	39.6	0.021	>10.0	16.10	9.2	8	3.1	14.6	0.61	1.99	4.24	0.126	2.47
457124		340	52.7	62.3	0.021	>10.0	13.90	15.3	5	2.8	40.4	0.84	0.73	4.65	0.237	4.14
457125		420	27.3	84.0	0.016	8.04	6.74	21.9	3	2.9	43.1	1.01	0.24	6.22	0.371	4.55
457126		450	52.6	69.9	0.027	>10.0	13.50	17.5	4	2.4	25.4	0.58	0.52	4.02	0.238	4.21
457127		220	57.1	43.6	0.024	>10.0	14.85	8.8	6	2.5	29.0	1.02	0.95	5.39	0.137	3.29
457128		560	37.0	98.6	0.019	8.63	8.60	26.1	4	3.0	41.8	1.16	0.41	4.94	0.488	5.68
457129		1130	14.6	40.5	<0.002	0.03	1.06	19.7	1	1.7	343	1.17	<0.05	4.62	0.901	0.23
457130		360	16.1	87.4	0.010	5.94	3.22	18.2	3	3.0	47.0	1.30	0.19	6.74	0.311	4.67
457131		230	20.0	82.2	0.014	7.95	4.40	19.6	4	1.8	58.3	0.49	0.26	4.57	0.278	4.74
457132		230	22.6	86.5	0.014	7.21	5.40	18.1	5	2.1	79.7	0.78	0.31	5.94	0.304	5.28
457133		210	33.8	68.1	0.022	9.15	9.20	18.9	5	1.6	77.5	0.59	0.40	4.72	0.205	4.42
457134		260	45.4	64.5	0.021	>10.0	11.00	13.9	6	1.4	87.8	0.40	0.40	5.10	0.217	4.46
457135		470	59.3	69.1	0.033	>10.0	16.40	11.6	9	1.4	82.4	0.51	0.53	4.35	0.204	4.95
457136		120	1.1	5.2	<0.002	0.08	0.36	1.0	1	0.2	86.4	<0.05	<0.05	0.12	0.068	0.09
457137		460	54.6	43.7	0.037	>10.0	16.40	11.5	10	0.9	80.1	0.39	0.45	3.59	0.147	3.60
457138		330	39.7	37.4	0.027	>10.0	11.20	10.6	10	0.9	96.6	0.50	0.26	3.40	0.147	2.91
457139		280	38.4	42.5	0.024	>10.0	10.45	10.8	9	1.0	99.1	0.43	0.25	3.69	0.161	3.16
457140		350	45.3	47.0	0.036	>10.0	11.65	11.0	10	1.1	82.9	0.54	0.41	4.03	0.162	3.50



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191885**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
457121		5.8	94	0.9	5.3	186	77.4
457122		9.4	123	1.4	11.4	395	139.5
457123		8.0	139	0.9	9.3	721	95.3
457124		15.1	192	1.1	11.2	776	157.0
457125		14.1	180	1.1	14.5	504	204
457126		17.4	215	1.0	11.2	822	144.0
457127		11.2	172	0.7	12.0	808	155.0
457128		19.3	218	1.7	14.5	862	180.5
457129		1.1	144	2.3	20.4	130	147.0
457130		12.1	162	1.0	16.8	801	265
457131		10.2	161	0.9	11.0	459	139.5
457132		11.4	193	0.9	13.1	656	172.0
457133		12.8	201	0.8	10.4	547	106.0
457134		16.3	251	0.9	9.9	780	91.2
457135		15.5	301	0.9	11.0	1000	90.8
457136		0.3	15	0.1	3.6	7	6.1
457137		15.3	302	1.0	9.7	1480	56.8
457138		14.6	265	1.0	10.3	1270	62.5
457139		14.1	235	1.0	10.1	758	65.9
457140		17.9	323	1.0	11.7	1020	72.8



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191885**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
 CRU-31 CRU-QC LOG-21 LOG-23  
 PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
 Au-ICP21 Hg-MS42 ME-MS61



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**QUEBEC QC G1K 7R1**

Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
Compte: MINVIR

## CERTIFICAT VO18191891

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Bon de commande #: KANDH18-056

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191891**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457101		3.23	<0.001	0.06	7.84	17.5	260	0.79	0.01	4.49	0.20	29.5	33.3	116	2.88	102.0
457102		3.61	<0.001	0.06	9.10	4.6	770	1.98	0.11	0.63	0.17	67.1	13.1	84	7.27	64.6
457103		4.53	<0.001	0.08	8.85	0.6	480	2.05	0.17	0.22	0.04	68.1	12.6	92	5.91	57.8
457104		4.65	<0.001	0.04	9.36	1.1	450	1.98	0.09	0.18	0.06	69.5	8.8	87	5.84	29.6
457105		2.32	<0.001	0.08	9.98	<0.2	490	2.54	0.10	0.09	0.04	75.7	10.9	95	7.25	61.1
457106		3.94	0.002	0.26	10.85	15.1	280	2.09	0.21	0.15	1.54	102.0	20.3	152	5.14	74.8
457107		4.51	0.002	0.30	11.05	7.0	270	2.00	0.15	0.98	1.57	135.5	11.2	136	5.06	94.7
457108		4.56	0.004	0.28	10.15	21.4	250	1.92	0.18	0.67	2.21	109.5	17.9	126	4.54	96.0
457109		0.07	7.63	1.36	6.28	35.0	320	1.12	0.48	3.04	0.09	31.0	45.1	332	0.67	116.0
457110		4.56	0.007	0.29	10.05	2.3	260	2.04	0.14	0.27	2.70	86.6	9.1	120	4.67	93.2
457111		4.71	0.006	0.28	11.40	4.5	290	2.01	0.11	0.17	4.58	103.5	8.8	135	5.21	90.4
457112		4.64	0.005	0.29	10.45	9.4	260	2.23	0.14	0.25	2.53	85.9	10.7	124	4.84	88.7
457113		4.79	0.004	0.26	10.45	9.7	250	2.28	0.14	0.20	1.92	98.0	13.6	124	4.73	93.4
457114		4.90	0.006	0.29	10.55	14.5	250	2.00	0.14	0.60	1.73	101.0	18.7	122	4.63	107.5
457115		4.60	0.007	0.28	9.66	50.2	230	1.70	0.23	0.33	1.73	58.5	39.1	108	4.10	102.5
457116		0.28	<0.001	0.01	0.20	<0.2	30	0.12	0.02	32.4	0.02	1.01	0.8	2	<0.05	1.9
457117		4.75	0.015	0.38	10.85	26.0	330	2.31	0.20	0.33	4.84	61.8	40.8	137	4.78	114.5
457118		5.08	0.049	0.65	8.26	79.7	140	1.79	0.35	0.25	2.05	44.2	50.8	129	3.52	95.9
457119		1.51	0.066	0.77	4.02	83.6	40	1.48	0.40	0.44	1.27	48.2	57.3	60	1.88	90.2
457120		4.31	0.044	1.64	2.10	1.0	90	0.74	0.47	0.05	2.14	27.1	7.0	32	0.86	405



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191891**

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457101		7.30	18.80	0.12	1.4	0.013	0.060	1.03	13.8	28.9	2.72	1080	0.22	2.48	4.7	81.1
457102		5.19	27.0	0.16	3.3	0.011	0.059	4.75	36.0	41.7	1.36	440	0.88	0.19	8.6	35.0
457103		4.68	25.4	0.16	2.5	0.012	0.051	4.64	37.1	34.7	1.04	219	0.88	0.14	8.1	38.7
457104		4.35	26.0	0.17	2.6	0.011	0.051	4.75	36.7	35.4	1.05	193	0.45	0.26	8.4	32.1
457105		4.74	28.8	0.19	2.9	0.011	0.052	5.06	40.3	39.3	1.06	164	1.62	0.22	9.3	36.1
457106		6.89	34.4	0.25	9.3	0.196	0.132	4.76	58.5	15.3	0.38	31	11.20	0.34	27.9	83.3
457107		7.31	36.0	0.36	14.8	0.182	0.146	4.85	74.4	21.6	0.89	150	10.95	0.33	43.2	95.1
457108		8.37	31.2	0.26	8.9	0.221	0.161	4.36	61.3	23.6	0.78	125	11.15	0.29	25.6	105.0
457109		5.75	16.95	0.16	2.6	0.147	0.051	1.10	14.6	17.2	4.14	755	6.56	1.24	16.9	255
457110		6.33	29.9	0.23	6.4	0.263	0.156	4.38	49.4	16.4	0.42	57	11.30	0.30	15.4	89.9
457111		7.09	33.9	0.27	7.4	0.395	0.210	5.02	60.1	23.1	0.53	40	12.20	0.33	19.9	101.0
457112		7.12	30.2	0.26	7.1	0.256	0.143	4.51	49.5	21.5	0.54	62	10.55	0.30	19.9	98.1
457113		7.37	31.2	0.26	7.0	0.168	0.148	4.55	56.0	24.2	0.59	51	14.05	0.29	17.6	95.9
457114		9.58	31.0	0.28	6.8	0.165	0.139	4.33	57.7	34.1	1.07	161	11.55	0.27	20.2	112.0
457115		10.70	27.0	0.23	5.3	0.239	0.137	4.06	33.5	28.2	0.74	101	11.80	0.24	13.7	114.5
457116		0.15	0.71	0.10	0.1	<0.005	0.006	0.06	1.1	1.3	1.50	89	0.13	0.09	0.3	<0.2
457117		10.15	28.6	0.20	4.6	0.468	0.246	4.86	35.2	21.0	0.54	87	13.30	0.29	14.9	128.0
457118		15.20	23.2	0.25	4.0	0.501	0.129	3.56	22.8	26.3	0.65	88	14.50	0.21	11.5	118.5
457119		13.10	13.80	0.22	2.9	0.376	0.077	1.72	26.4	11.7	0.42	185	20.9	0.11	8.8	75.0
457120		40.3	7.58	0.32	1.6	0.240	0.072	0.85	13.5	8.6	0.19	16	12.05	0.05	2.2	329



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191891**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457101		300	2.4	37.5	<0.002	0.09	0.20	32.9	1	0.7	120.0	0.34	<0.05	4.44	0.519	0.15
457102		220	11.5	135.5	<0.002	0.26	0.20	11.9	1	1.6	44.6	0.70	<0.05	12.45	0.310	0.53
457103		270	12.8	149.0	0.002	0.56	0.29	11.9	1	1.6	47.1	0.62	0.06	12.10	0.296	0.55
457104		230	10.5	165.5	<0.002	0.31	0.22	12.6	1	1.7	49.0	0.67	<0.05	12.35	0.314	0.54
457105		180	13.8	154.5	<0.002	0.69	0.34	13.1	2	1.8	55.0	0.75	<0.05	14.25	0.339	0.70
457106		300	18.2	100.0	0.010	4.46	2.85	19.5	3	3.8	53.2	1.64	0.28	8.91	0.402	4.39
457107		350	17.0	100.5	0.008	3.83	2.83	23.5	2	4.3	57.6	3.05	0.18	13.05	0.386	4.22
457108		450	18.1	90.3	0.010	4.85	2.63	21.9	3	3.7	50.5	1.65	0.25	8.90	0.330	3.59
457109		1130	10.3	40.5	<0.002	0.09	0.78	21.4	1	1.0	287	0.98	0.27	2.26	0.682	0.21
457110		410	15.0	91.3	0.007	3.41	2.24	17.6	2	3.4	48.9	0.88	0.14	6.43	0.340	3.80
457111		470	14.3	101.0	0.011	3.88	2.30	21.7	2	3.9	52.4	1.09	0.13	7.91	0.447	4.28
457112		410	18.2	91.7	0.009	3.94	2.47	19.9	2	3.5	48.4	1.20	0.13	6.82	0.369	3.84
457113		460	15.5	90.5	0.015	4.18	2.22	19.9	3	3.4	45.1	1.01	0.15	7.53	0.367	3.76
457114		400	16.5	88.6	0.007	5.25	2.49	25.1	3	3.3	47.8	1.25	0.14	8.10	0.346	3.71
457115		470	21.3	83.0	0.011	7.05	3.97	23.4	3	2.7	37.3	0.76	0.29	5.24	0.362	3.57
457116		70	0.9	1.6	<0.002	0.02	0.06	0.3	1	<0.2	78.2	<0.05	<0.05	0.11	0.007	0.04
457117		400	24.2	98.7	0.018	6.46	5.30	24.3	3	2.9	42.4	0.96	0.38	5.11	0.417	4.57
457118		440	42.1	73.3	0.021	>10.0	9.19	22.1	5	2.7	30.1	0.75	1.17	4.27	0.295	3.82
457119		450	40.9	41.9	0.014	>10.0	9.13	10.5	4	2.3	20.2	0.53	2.06	3.64	0.135	1.89
457120		80	54.9	19.3	0.015	>10.0	12.05	4.8	11	1.1	7.7	0.16	3.11	1.97	0.035	0.95



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
29-AOUT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191891**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457101		0.6	253	0.5	17.3	82	41.9
457102		2.1	72	1.5	10.0	84	114.0
457103		2.2	93	1.4	7.5	74	85.1
457104		2.0	88	1.4	7.8	75	84.6
457105		2.7	108	1.3	8.0	77	95.6
457106		11.1	173	1.1	20.1	432	326
457107		11.8	171	1.3	25.7	442	459
457108		11.3	164	1.0	20.4	605	315
457109		0.6	147	10.1	14.7	88	105.0
457110		10.9	157	1.0	13.9	745	235
457111		13.5	190	1.3	16.2	1240	266
457112		11.6	162	1.1	15.2	680	257
457113		12.8	179	1.2	16.4	546	257
457114		11.3	163	1.1	17.3	518	241
457115		13.4	164	1.1	14.5	514	200
457116		0.2	2	0.1	2.3	6	2.5
457117		19.5	210	1.5	12.1	1350	171.0
457118		17.1	206	1.6	10.8	578	150.5
457119		9.5	134	1.3	9.8	343	111.5
457120		4.3	55	0.5	3.8	491	62.7



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date:  
**29-AOUT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191891**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date:  
24-AOUT-2018  
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## CERTIFICAT VO18191895

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Bon de commande #: KANDH18-055

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**24-AOUT-2018**  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18191895**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457081		4.74	<0.001	0.12	9.85	1.4	500	2.17	0.19	0.12	0.03	73.1	13.5	81	8.39	69.7
457082		4.59	0.003	0.08	9.32	2.1	560	1.91	0.16	0.13	0.45	66.6	11.9	80	9.33	43.9
457083		2.40	0.001	0.13	7.91	0.8	570	1.66	0.10	0.15	0.12	50.7	17.2	78	7.70	69.1
457084		4.31	<0.001	0.13	6.22	27.6	380	0.95	0.02	5.37	0.21	30.2	26.7	80	2.73	90.9
457085		4.67	<0.001	0.11	6.74	61.1	80	0.48	0.02	4.32	0.14	9.63	50.0	130	0.88	88.1
457086		4.43	0.001	0.16	6.61	45.2	70	0.56	0.01	3.41	0.13	9.82	47.0	135	2.22	132.5
457087		4.77	0.001	0.07	5.94	21.0	150	0.87	0.03	3.41	0.09	20.9	34.0	110	2.71	73.7
457088		4.08	0.001	0.27	6.85	4.5	330	1.72	0.09	1.39	0.28	23.2	41.2	127	27.4	93.1
457089		0.07	2.59	0.45	7.04	11.8	330	1.02	0.17	4.88	0.09	44.4	56.2	319	0.77	86.8
457090		4.50	0.003	0.25	7.73	8.5	550	2.15	0.10	0.61	0.21	44.0	38.7	130	23.8	105.5
457091		4.72	0.002	0.14	8.22	0.2	480	2.40	0.20	0.46	0.16	59.0	22.0	100	15.50	32.8
457092		4.63	0.003	0.13	8.19	0.4	460	1.99	0.18	0.46	0.11	57.1	19.2	96	11.10	36.8
457093		2.69	0.005	0.22	8.73	0.7	480	1.91	0.29	0.39	3.29	64.6	18.6	87	5.48	83.9
457094		4.19	0.001	0.10	7.39	17.7	300	1.03	0.01	4.18	0.17	32.2	30.7	100	2.99	97.6
457095		4.40	0.001	0.16	7.28	19.1	30	0.38	0.02	5.53	0.16	11.10	52.9	105	3.13	147.5
457096		0.27	<0.001	<0.01	0.09	<0.2	20	<0.05	0.01	32.3	<0.02	1.01	0.7	1	<0.05	3.2
457097		4.71	0.001	0.11	7.25	23.5	40	0.31	0.01	5.90	0.12	9.13	62.9	121	2.19	143.5
457098		5.13	<0.001	0.06	7.28	13.0	20	0.21	0.01	7.19	0.13	7.89	56.3	116	1.28	133.0
457099		4.75	0.001	0.07	6.77	5.7	20	0.30	0.02	6.77	0.15	10.10	50.3	127	1.18	164.0
457100		4.76	0.001	0.10	6.71	11.5	40	0.39	0.01	6.50	0.20	8.28	50.5	133	2.85	169.5



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date:  
**24-AOUT-2018**  
 Compte: MINVIR

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
457081		4.35	27.4	0.15	2.7	<0.005	0.051	5.31	38.6	38.3	1.01	214	1.49	0.25	9.3	39.6
457082		4.88	24.5	0.16	2.5	0.016	0.050	4.88	34.5	44.5	1.04	368	0.96	0.16	8.3	36.2
457083		6.84	21.2	0.13	2.1	0.043	0.039	3.99	26.4	45.8	1.49	677	5.03	0.04	6.9	54.8
457084		6.90	16.85	0.11	1.6	0.021	0.043	1.71	15.3	32.8	2.51	1720	2.86	0.48	5.3	57.2
457085		10.20	17.40	0.10	1.4	0.018	0.062	0.30	3.7	39.7	4.29	1430	0.21	1.01	5.0	100.5
457086		10.40	17.65	0.11	1.4	0.080	0.073	0.44	3.5	47.1	5.74	1040	0.17	0.56	2.9	83.7
457087		14.05	15.75	0.09	1.2	0.024	0.057	0.62	9.7	34.7	4.21	3670	0.88	0.44	6.4	71.1
457088		15.45	19.20	0.16	1.8	0.019	0.070	4.47	10.3	74.7	3.47	1700	2.39	0.04	7.1	90.5
457089		7.70	19.05	0.13	3.5	0.063	0.055	1.01	21.9	9.2	5.64	1060	3.17	2.05	30.7	353
457090		11.80	21.1	0.16	2.3	0.022	0.070	5.08	21.3	62.8	2.50	1200	2.22	0.04	12.9	90.6
457091		9.17	23.2	0.16	2.2	0.010	0.053	4.93	27.3	54.4	1.45	7010	1.87	0.04	9.8	47.2
457092		7.96	22.7	0.15	2.2	0.020	0.049	4.70	26.3	50.0	1.30	5630	2.18	0.04	8.8	44.8
457093		6.30	23.8	0.17	2.2	0.112	0.048	4.75	33.1	47.6	1.24	1500	5.95	0.05	7.9	58.0
457094		6.74	19.30	0.13	1.5	0.018	0.047	2.60	16.1	37.1	2.62	1150	0.92	0.32	5.1	72.7
457095		8.95	16.85	0.10	1.0	0.018	0.067	0.72	4.0	38.2	4.90	1340	0.24	1.40	3.8	172.0
457096		0.14	0.23	0.08	<0.1	<0.005	<0.005	0.02	1.1	1.4	1.54	95	<0.05	0.03	0.1	2.2
457097		9.25	16.60	0.10	0.9	0.022	0.068	0.48	3.3	24.7	5.54	1440	0.21	1.82	3.2	220
457098		9.22	16.30	0.09	0.7	0.027	0.066	0.29	2.8	16.8	4.85	1520	0.20	1.49	2.9	164.0
457099		9.28	16.40	0.07	0.9	0.049	0.078	0.28	3.8	19.1	4.45	1520	0.27	1.19	3.1	123.0
457100		9.16	16.05	0.06	0.7	0.028	0.066	0.61	3.0	26.7	4.42	1450	0.22	1.23	3.0	116.5





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Page: 2 - C  
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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457081		320	16.6	155.5	0.004	0.62	0.86	13.4	2	1.7	35.9	0.66	0.10	14.10	0.322	0.77
457082		180	8.7	161.0	0.003	0.55	0.72	11.8	2	1.6	25.6	0.62	0.06	13.20	0.288	0.84
457083		150	8.1	127.5	0.013	1.29	1.00	11.9	3	1.3	17.7	0.54	0.08	9.08	0.259	0.67
457084		270	7.3	46.7	0.008	0.17	0.26	22.1	1	0.8	206	0.37	<0.05	4.56	0.351	0.27
457085		430	4.3	8.5	0.003	0.01	0.23	47.1	<1	0.7	153.0	0.20	0.27	0.25	0.695	0.06
457086		380	3.3	17.5	<0.002	0.02	0.25	47.2	<1	0.8	97.5	0.13	<0.05	0.26	0.467	0.17
457087		390	2.6	21.0	0.003	0.59	0.29	32.5	1	0.6	90.3	0.36	0.05	2.02	0.497	0.20
457088		350	5.9	176.0	0.005	1.62	0.30	36.9	2	0.9	45.7	0.42	0.11	2.49	0.559	1.54
457089		1880	5.4	31.4	<0.002	0.02	0.36	23.4	<1	1.3	490	1.65	0.09	2.81	1.065	0.07
457090		350	7.9	197.0	0.005	1.51	0.64	32.8	2	1.2	26.3	0.72	0.06	5.04	0.525	1.30
457091		280	7.7	153.0	0.004	1.05	0.60	14.6	1	1.5	20.7	0.69	0.06	9.01	0.306	0.95
457092		330	6.8	129.5	0.002	1.07	0.64	13.6	2	1.5	20.0	0.64	0.06	8.95	0.301	0.77
457093		280	9.4	118.5	0.013	1.44	0.88	12.5	3	1.6	22.3	0.60	0.11	11.40	0.256	0.49
457094		310	3.0	50.9	0.004	0.14	0.26	29.0	1	0.6	78.4	0.36	<0.05	4.94	0.501	0.24
457095		440	19.3	26.7	0.002	0.05	0.28	37.3	1	0.6	115.5	0.22	<0.05	0.44	0.581	0.20
457096		60	<0.5	0.6	<0.002	0.01	0.06	0.3	<1	<0.2	83.6	<0.05	<0.05	0.08	0.006	<0.02
457097		360	2.1	21.0	0.002	0.07	0.71	40.5	<1	0.6	146.5	0.20	<0.05	0.24	0.544	0.13
457098		340	3.7	11.7	<0.002	0.08	1.15	42.2	<1	0.5	246	0.17	<0.05	0.21	0.607	0.07
457099		370	3.9	9.1	0.002	0.13	1.01	44.5	1	0.9	249	0.19	<0.05	0.25	0.618	0.07
457100		370	3.8	28.1	0.002	0.08	0.55	42.0	1	0.6	169.5	0.19	<0.05	0.22	0.637	0.15



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18191895**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457081		2.7	99	1.6	7.6	82	95.3
457082		2.5	102	1.4	7.2	116	88.6
457083		5.3	252	1.1	6.8	163	73.2
457084		2.4	228	1.6	9.2	124	55.8
457085		0.1	351	9.4	6.7	131	50.0
457086		0.1	354	15.2	6.2	117	46.0
457087		1.4	274	0.9	6.4	63	47.8
457088		1.9	318	0.6	6.3	149	67.0
457089		0.7	152	3.6	22.7	106	147.0
457090		3.4	311	1.3	8.2	129	83.2
457091		3.4	149	1.5	12.9	156	82.6
457092		3.2	135	1.4	12.1	193	82.6
457093		5.8	253	1.6	8.8	297	73.9
457094		1.6	258	0.7	18.7	115	54.6
457095		0.1	285	0.2	24.5	95	47.0
457096		0.2	2	<0.1	2.1	3	1.7
457097		0.1	280	0.2	23.4	95	25.9
457098		0.1	318	0.2	22.0	95	19.5
457099		0.1	327	0.2	24.0	101	23.8
457100		0.1	341	0.3	21.8	107	22.0





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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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## CERTIFICAT VO18192967

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Bon de commande #: KANDH18-068

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 2-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18192967**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457341		2.70	0.014	0.03	0.56	0.8	<10	0.49	0.02	2.72	0.07	11.75	5.6	27	<0.05	5.5
457342		2.35	<0.001	0.03	0.90	0.6	10	0.43	0.03	1.85	0.06	15.15	7.9	28	0.07	8.4
457343		2.59	<0.001	0.02	0.64	4.2	<10	0.83	0.03	1.28	0.04	10.45	8.0	16	<0.05	7.1
457344		1.44	<0.001	0.04	0.89	1.8	30	0.45	0.03	1.36	0.17	14.85	7.9	21	0.31	7.8
457345		3.36	0.003	0.16	8.07	0.6	450	2.53	0.20	0.17	0.09	57.8	18.5	95	4.55	29.8
457346		5.04	0.001	0.16	8.53	1.0	440	2.50	0.17	0.25	0.47	65.1	19.7	102	5.42	38.0
457347		4.86	0.001	0.23	8.26	6.8	370	2.15	0.25	0.23	1.16	61.8	19.1	97	5.45	36.8
457348		4.55	0.001	0.27	8.47	2.6	380	2.21	0.31	0.21	0.59	62.5	17.9	98	5.12	24.1
457349		0.07	7.75	1.34	6.32	35.2	320	1.01	0.54	3.03	0.09	31.4	40.9	326	0.66	113.5
457350		4.80	0.004	0.23	8.52	3.8	390	2.14	0.22	0.31	0.67	72.9	17.3	99	5.46	29.8
457351		4.84	0.003	0.19	8.83	1.9	400	2.30	0.24	0.20	2.57	64.1	15.9	103	6.14	38.0
457352		5.04	0.002	0.38	7.98	<0.2	360	2.19	0.49	0.20	1.28	63.5	18.8	90	5.26	37.1
457353		4.83	0.002	0.22	8.49	0.8	380	2.29	0.19	0.35	1.12	68.1	19.1	98	5.73	32.7
457354		5.01	0.004	0.19	8.18	1.3	380	2.23	0.23	0.28	1.37	58.4	18.3	99	5.60	36.0
457355		5.19	0.003	0.25	8.33	0.4	420	2.50	0.29	0.27	1.49	63.1	20.5	97	6.54	34.1
457356		0.28	<0.001	<0.01	0.11	1.6	20	0.07	0.01	33.6	<0.02	1.33	0.8	3	0.07	3.5
457357		5.11	0.004	0.21	8.61	0.6	450	2.30	0.18	0.21	0.27	61.4	19.6	101	6.78	32.3
457358		4.99	0.002	0.15	8.44	0.6	450	2.20	0.19	0.22	0.54	59.5	18.8	99	6.55	29.9
457359		4.77	0.002	0.24	8.60	0.8	400	2.32	0.29	0.24	1.81	63.3	21.1	102	6.43	39.5
457360		4.87	0.001	0.12	7.50	0.8	380	2.12	0.15	0.40	0.28	58.9	15.8	87	5.57	21.4



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 2-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18192967**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457341		19.65	2.26	0.05	0.4	<0.005	0.011	0.01	6.1	8.7	3.02	12100	0.48	0.04	2.2	8.9
457342		19.95	4.24	0.06	0.6	0.013	0.019	0.02	7.7	12.5	2.88	17550	0.59	0.11	3.3	14.2
457343		21.5	3.00	0.05	0.4	0.005	0.018	0.01	5.6	8.5	3.00	19400	0.42	0.02	2.8	9.5
457344		20.7	3.86	0.06	0.5	0.005	0.018	0.27	7.7	4.4	2.25	32900	0.50	0.01	4.0	11.6
457345		9.70	19.65	0.08	2.1	<0.005	0.047	3.38	29.2	44.2	1.51	3100	2.61	0.05	7.4	41.4
457346		8.23	22.5	0.10	2.1	<0.005	0.055	4.59	33.3	27.6	1.14	11950	1.10	0.07	7.8	44.7
457347		7.86	21.2	0.10	2.1	0.012	0.053	4.38	31.3	25.6	1.12	12050	0.83	0.08	7.7	41.5
457348		7.78	21.7	0.09	2.4	0.007	0.052	4.64	30.8	25.3	1.07	12550	0.98	0.08	8.3	39.9
457349		5.77	14.85	0.07	2.4	0.178	0.051	1.08	15.8	14.3	4.11	778	6.02	1.22	16.5	258
457350		7.68	21.6	0.11	2.5	0.006	0.050	4.59	34.7	26.7	1.06	10950	1.99	0.08	8.5	40.6
457351		6.96	21.9	0.11	2.4	0.020	0.053	4.85	31.9	31.3	1.04	7350	0.82	0.07	8.5	41.9
457352		7.57	20.0	0.11	2.3	0.009	0.043	4.33	31.6	28.2	1.00	11100	3.45	0.06	7.9	45.5
457353		7.82	21.5	0.11	2.3	0.008	0.050	4.65	33.4	29.4	1.08	11900	1.11	0.08	8.2	42.8
457354		7.87	20.7	0.10	2.1	0.007	0.050	4.39	29.4	28.6	1.09	12600	0.82	0.27	7.3	40.3
457355		8.10	22.1	0.11	2.1	0.009	0.052	4.50	31.7	34.2	1.11	11250	1.18	0.21	7.8	46.3
457356		0.18	0.35	0.06	<0.1	<0.005	<0.005	0.04	1.3	1.3	1.67	151	0.06	0.03	0.2	1.3
457357		8.87	21.8	0.09	2.1	<0.005	0.055	4.59	31.4	30.5	1.23	11250	1.29	0.32	7.8	45.7
457358		8.91	21.8	0.09	2.1	<0.005	0.043	4.52	30.5	27.9	1.24	13550	0.94	0.32	7.7	43.0
457359		7.90	22.5	0.11	2.3	0.014	0.049	4.84	30.6	32.6	1.06	11000	1.11	0.15	8.1	46.2
457360		11.40	19.20	0.10	2.2	<0.005	0.045	3.81	29.7	27.8	1.44	13200	0.56	0.51	7.5	34.6



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 2-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18192967**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457341		400	2.2	0.5	<0.002	0.13	0.13	1.4	1	<0.2	32.7	0.14	<0.05	0.55	0.040	<0.02
457342		590	1.5	0.7	<0.002	0.21	0.07	2.1	1	<0.2	27.1	0.22	<0.05	0.95	0.072	<0.02
457343		480	1.1	0.5	<0.002	0.12	0.07	1.5	1	<0.2	24.6	0.16	0.05	0.56	0.070	<0.02
457344		550	1.6	8.9	<0.002	0.21	0.07	1.9	<1	0.2	86.1	0.24	<0.05	0.73	0.097	0.04
457345		290	7.6	131.5	0.003	1.06	0.20	10.2	1	1.3	38.2	0.56	0.07	8.19	0.274	0.59
457346		520	10.9	181.0	0.005	0.97	0.29	12.2	2	1.4	50.8	0.64	<0.05	8.95	0.296	0.73
457347		280	30.5	175.0	0.003	0.70	0.23	11.9	2	1.3	48.4	0.59	0.06	8.51	0.283	0.68
457348		350	26.8	174.0	0.002	1.05	0.24	13.2	1	1.4	48.0	0.65	0.06	9.68	0.310	0.68
457349		1150	9.6	37.8	<0.002	0.09	0.80	20.1	1	0.9	289	0.96	0.22	2.31	0.688	0.20
457350		620	23.3	181.5	0.002	1.09	0.20	12.3	1	1.4	60.4	0.67	0.05	10.15	0.314	0.68
457351		250	12.0	188.5	0.003	0.91	0.20	12.8	1	1.4	48.2	0.66	<0.05	10.25	0.321	0.69
457352		300	46.7	171.0	0.002	1.29	0.24	11.3	1	1.2	43.9	0.60	0.07	9.47	0.285	0.62
457353		710	19.8	178.5	0.002	0.99	0.23	12.8	1	1.3	59.9	0.64	0.05	9.87	0.308	0.60
457354		320	24.6	167.0	0.002	0.74	0.22	12.0	2	1.3	51.7	0.60	0.05	9.06	0.286	0.59
457355		320	34.2	180.0	0.003	1.00	0.24	12.8	2	1.4	56.7	0.61	0.08	8.98	0.282	0.66
457356		70	0.5	1.6	<0.002	0.01	0.05	0.7	1	<0.2	79.8	<0.05	<0.05	0.13	0.007	<0.02
457357		240	15.6	184.5	0.003	1.26	0.29	11.8	2	1.4	46.2	0.61	<0.05	9.09	0.290	0.67
457358		360	9.5	184.0	0.003	0.93	0.25	11.7	2	1.3	49.7	0.60	0.06	8.70	0.288	0.68
457359		310	50.0	185.5	0.003	0.97	0.24	13.0	2	1.4	51.8	0.63	0.07	9.59	0.304	0.68
457360		340	16.0	162.0	<0.002	0.44	0.14	10.6	1	1.2	74.3	0.59	<0.05	8.87	0.279	0.52



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18192967**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457341		0.4	48	0.1	5.3	31	17.9
457342		0.6	74	0.2	6.5	37	28.5
457343		0.3	65	0.1	5.6	17	16.3
457344		0.4	79	0.2	5.2	37	22.5
457345		3.2	145	1.3	6.5	154	72.6
457346		3.2	163	1.7	7.3	131	73.5
457347		2.4	139	1.3	6.5	209	74.6
457348		3.0	124	1.3	6.8	153	85.4
457349		0.6	150	8.9	15.2	87	97.5
457350		2.8	121	1.3	7.4	162	88.3
457351		2.4	130	1.3	6.1	372	83.5
457352		2.9	118	1.3	6.5	210	85.1
457353		3.0	133	1.5	7.3	196	83.6
457354		2.8	143	1.4	6.0	233	74.1
457355		3.3	157	1.6	6.2	237	75.0
457356		0.3	3	0.1	2.2	4	1.7
457357		3.4	154	1.5	6.2	111	74.6
457358		3.2	158	1.6	6.6	157	74.1
457359		3.2	155	1.6	6.4	212	81.0
457360		2.2	100	1.2	6.7	103	79.4





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
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 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18192967**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada

Applique à la Méthode:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applique à la Méthode:	Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
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Compte: MINVIR

## CERTIFICAT VO18192970

Projet: Kan

Bon de commande #: KANDH18-067

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18192970**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457321		4.74	0.010	1.00	8.59	84.3	160	3.05	0.31	0.21	2.86	45.7	27.4	97	6.07	114.0
457322		4.70	0.036	1.25	6.14	122.5	150	2.32	0.39	1.73	8.33	60.4	23.4	73	4.87	111.0
457323		5.23	0.015	1.02	8.82	76.6	230	2.71	0.27	0.59	5.12	57.9	27.6	93	6.63	144.5
457324		4.91	0.011	0.79	8.28	50.8	220	1.92	0.23	1.30	3.74	45.5	26.1	94	6.17	162.5
457325		4.67	0.008	0.80	8.55	54.6	200	1.49	0.29	0.64	2.29	56.7	27.5	113	5.71	143.5
457326		4.22	0.019	1.12	7.15	76.3	180	1.29	0.22	1.11	6.83	63.5	22.6	86	4.96	110.5
457327		5.03	0.032	2.31	5.48	38.6	150	1.06	1.22	2.13	10.15	60.7	18.7	63	4.96	262
457328		4.74	0.024	1.51	7.40	49.0	180	1.20	0.52	0.95	12.10	69.2	27.5	75	5.30	158.0
457329		0.07	2.59	0.41	6.71	12.3	320	1.29	0.17	4.73	0.09	45.6	52.3	323	0.72	83.9
457330		4.47	0.018	0.75	8.41	56.3	190	1.26	0.27	1.12	8.26	69.5	25.5	88	5.16	94.2
457331		4.92	0.051	1.00	7.68	75.7	170	1.18	0.29	0.62	9.14	64.5	28.2	81	4.60	86.6
457332		4.95	0.030	1.02	8.88	56.1	210	1.36	0.26	0.57	11.25	69.7	27.1	90	5.59	103.0
457333		4.54	0.054	1.12	7.83	58.4	170	1.18	0.26	0.89	9.98	64.4	27.9	80	4.59	116.5
457334		4.43	0.025	1.07	7.90	24.0	200	1.64	0.33	0.99	8.02	67.3	18.2	81	5.45	149.5
457335		1.32	0.003	0.42	3.03	4.2	140	1.97	0.26	4.95	0.25	49.6	14.2	52	1.89	60.0
457336		0.26	<0.001	0.06	0.05	0.4	50	<0.05	0.01	20.2	0.05	1.41	0.8	1	0.30	1.6
457337		3.53	<0.001	0.04	0.05	0.5	<10	0.19	0.01	2.96	0.07	7.33	1.4	16	<0.05	4.7
457338		2.58	<0.001	0.03	0.18	0.4	<10	0.15	0.01	5.68	0.14	6.47	1.9	14	<0.05	2.1
457339		2.74	<0.001	0.05	0.62	0.8	<10	0.35	0.03	4.43	0.16	14.00	6.7	21	0.06	7.9
457340		2.51	<0.001	0.01	0.44	0.4	<10	0.40	0.01	2.74	0.06	12.45	7.4	19	<0.05	3.2



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
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**CERTIFICAT D'ANALYSE VO18192970**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457321		11.40	21.5	0.17	3.6	0.434	0.074	3.89	25.3	42.2	0.62	106	16.50	0.17	9.0	142.0
457322		13.45	16.55	0.19	3.1	0.698	0.127	2.57	35.7	33.7	1.12	526	47.8	0.18	9.2	182.5
457323		12.50	22.8	0.20	4.5	0.444	0.113	4.00	31.8	34.1	0.70	156	17.45	0.18	11.2	150.5
457324		11.90	21.9	0.15	3.6	0.232	0.119	3.81	25.0	29.5	0.93	269	14.00	0.19	8.0	138.5
457325		11.35	22.1	0.16	4.1	0.170	0.105	3.34	32.2	28.2	0.73	152	12.85	0.85	9.4	124.5
457326		11.45	19.10	0.16	5.0	0.399	0.135	2.73	37.0	21.5	0.77	186	21.4	0.78	18.3	154.0
457327		16.45	14.80	0.16	3.3	0.237	0.121	2.37	36.0	21.5	1.16	307	51.8	0.11	9.6	238
457328		13.15	20.3	0.16	4.6	0.363	0.121	2.72	39.8	23.1	0.73	141	23.0	0.96	11.1	165.5
457329		7.41	18.25	0.11	3.6	0.055	0.057	0.98	23.2	9.4	5.45	1020	3.12	1.97	29.0	349
457330		10.55	22.0	0.16	4.1	0.241	0.105	2.83	41.0	23.2	0.83	156	14.80	1.57	10.3	126.0
457331		11.80	20.3	0.14	4.4	0.346	0.104	2.54	37.4	21.8	0.61	100	16.75	1.51	10.1	125.5
457332		10.80	24.3	0.15	4.7	0.320	0.116	3.20	40.1	21.4	0.53	85	15.65	1.61	12.5	133.0
457333		11.80	20.5	0.15	4.5	0.312	0.101	2.66	38.0	18.6	0.60	142	14.90	1.59	10.1	141.5
457334		12.55	20.8	0.15	4.5	0.178	0.102	3.30	39.3	23.6	0.74	178	16.45	0.58	8.7	146.0
457335		10.40	10.55	0.13	2.7	0.023	0.047	1.13	27.2	23.2	2.59	2390	21.0	0.05	10.5	59.4
457336		0.09	0.23	0.12	<0.1	<0.005	<0.005	0.03	0.8	11.4	13.55	326	0.08	0.02	0.1	0.2
457337		12.85	0.34	0.06	0.1	0.008	<0.005	0.01	4.4	1.6	3.03	2320	0.43	<0.01	0.6	3.9
457338		11.20	0.93	0.06	<0.1	0.009	0.007	0.01	3.9	7.8	3.46	3230	0.63	0.01	0.3	3.7
457339		19.35	2.89	0.09	0.4	0.006	0.015	0.02	8.0	17.0	3.73	9320	0.92	0.02	1.9	8.5
457340		18.70	2.24	0.09	0.5	<0.005	0.011	0.01	6.6	12.0	2.84	10200	0.48	0.01	2.5	8.9



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18192970**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457321		250	73.3	102.0	0.021	>10.0	5.55	17.9	8	2.1	37.3	0.50	0.58	4.25	0.294	5.47
457322		520	112.5	80.5	0.037	>10.0	6.76	12.3	10	1.8	60.3	0.54	0.86	5.39	0.170	4.15
457323		260	65.5	103.0	0.019	>10.0	4.50	17.9	8	2.5	49.8	0.67	0.61	5.39	0.285	5.70
457324		230	63.3	82.8	0.015	9.36	2.76	19.1	5	2.1	65.4	0.46	0.42	4.07	0.260	4.93
457325		280	198.5	84.5	0.013	8.91	2.40	19.8	5	2.0	60.9	0.54	0.36	5.04	0.256	4.25
457326		300	275	72.7	0.019	>10.0	4.08	13.6	8	2.2	68.4	1.12	0.39	6.73	0.229	3.69
457327		420	749	71.2	0.046	>10.0	2.69	12.8	11	1.5	76.4	0.71	0.41	5.96	0.128	3.23
457328		300	416	75.9	0.024	9.66	3.15	15.2	5	2.1	76.9	0.77	0.62	6.08	0.214	3.48
457329		1850	5.2	32.8	<0.002	0.04	0.36	23.3	<1	1.3	477	1.74	0.07	2.95	1.040	0.07
457330		250	49.1	80.0	0.016	8.60	2.77	17.3	4	1.9	99.6	0.72	0.56	5.92	0.270	3.45
457331		240	69.3	69.6	0.016	>10.0	3.47	15.2	4	1.9	74.9	0.71	0.62	5.83	0.219	3.30
457332		240	75.1	87.0	0.015	9.00	3.50	18.1	4	2.2	91.3	0.82	0.63	6.35	0.292	3.80
457333		280	85.0	75.6	0.019	9.61	3.44	15.9	4	1.8	91.7	0.70	0.73	5.82	0.228	3.30
457334		290	148.0	92.2	0.019	7.66	2.01	16.9	5	2.1	84.2	0.60	0.38	6.11	0.201	3.47
457335		630	12.7	40.0	0.014	3.85	0.93	9.7	3	1.1	146.0	0.75	0.27	3.26	0.111	1.03
457336		30	3.4	1.0	<0.002	0.01	0.41	0.2	1	<0.2	136.0	<0.05	<0.05	0.12	<0.005	0.06
457337		170	1.3	0.2	<0.002	0.31	0.07	0.3	<1	<0.2	47.6	<0.05	<0.05	0.15	0.006	<0.02
457338		170	1.4	0.2	<0.002	0.13	0.06	0.5	<1	<0.2	109.0	<0.05	<0.05	0.15	<0.005	<0.02
457339		470	2.5	0.6	<0.002	0.53	0.08	1.5	1	<0.2	92.3	0.12	<0.05	0.70	0.028	<0.02
457340		330	1.2	0.3	<0.002	0.14	<0.05	1.4	1	<0.2	44.2	0.16	<0.05	0.74	0.031	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18192970**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
457321		14.8	227	1.9	10.4	530	143.5
457322		25.7	405	1.7	16.2	1500	122.0
457323		15.0	214	1.5	12.6	938	166.5
457324		11.5	177	1.0	8.7	733	140.0
457325		12.2	163	1.0	10.6	478	155.5
457326		14.1	224	1.1	14.5	1360	185.5
457327		23.6	410	1.3	13.9	1330	112.0
457328		15.6	220	1.0	14.3	946	157.5
457329		0.7	145	3.4	22.3	106	142.0
457330		13.5	176	1.0	11.4	702	143.5
457331		14.3	187	0.9	13.2	873	152.5
457332		14.8	194	1.0	12.6	847	166.5
457333		13.8	178	0.8	13.0	852	153.5
457334		14.3	195	0.9	11.3	683	152.0
457335		6.9	159	0.7	11.8	54	109.0
457336		0.2	2	0.1	0.8	12	1.3
457337		0.5	6	0.2	3.7	11	2.5
457338		0.3	14	0.1	5.2	23	2.3
457339		0.5	43	0.1	6.6	46	16.3
457340		0.4	36	0.1	5.4	24	19.1



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Page: **Annexe 1**  
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 Finalisée date: **1-SEPT-2018**  
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**CERTIFICAT D'ANALYSE VO18192970**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
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## CERTIFICAT VO18192974

Projet: Kan

Bon de commande #: KANDH18-066

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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À: **MINIÈRE OSISKO INC.**  
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**BUREAU 200**  
**QUEBEC QC G1K 7R1**

Page: 2 - A  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18192974**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457301		4.61	0.058	1.54	5.71	136.0	100	2.43	0.29	1.66	8.20	50.0	22.5	79	3.63	108.5
457302		4.74	0.023	0.84	8.11	43.6	240	2.39	0.24	0.72	6.23	50.3	28.8	91	4.56	179.0
457303		4.81	0.037	0.93	7.44	26.3	200	1.94	0.15	1.17	6.76	63.2	12.6	78	4.39	237
457304		5.06	0.034	1.31	7.04	83.0	140	1.87	0.24	1.28	5.93	57.0	21.0	73	4.86	140.5
457305		4.91	0.065	1.91	4.68	71.9	80	1.58	0.36	1.10	14.60	52.8	20.7	68	3.27	268
457306		4.43	0.018	0.77	4.85	11.0	280	2.92	0.24	1.48	8.42	65.4	12.7	70	3.01	239
457307		2.87	0.012	1.10	4.76	10.6	210	2.91	0.41	1.29	5.14	61.1	17.2	57	3.58	230
457308		3.95	0.006	0.20	4.96	4.8	350	2.54	0.19	1.33	0.34	64.8	10.1	46	2.36	55.3
457309		0.07	0.668	0.22	6.79	19.6	310	1.31	0.15	4.15	0.19	48.9	43.4	172	1.81	52.8
457310		5.00	0.007	0.46	3.19	12.0	220	1.98	0.29	1.49	1.89	48.6	10.5	42	1.88	147.0
457311		4.94	0.009	0.49	4.21	14.4	210	2.50	0.30	2.34	0.26	67.2	8.8	42	1.84	171.5
457312		1.77	0.005	0.46	3.36	0.8	190	1.64	0.18	1.25	0.78	47.1	5.8	42	1.49	142.5
457313		3.24	0.015	1.46	3.22	3.9	70	2.00	0.37	0.33	7.31	43.6	10.1	53	2.46	669
457314		4.90	0.024	1.16	3.60	15.3	190	2.19	0.35	1.05	17.95	64.2	19.2	74	2.99	300
457315		4.59	0.025	1.43	2.91	52.5	110	1.41	0.26	2.28	8.04	43.2	12.7	46	2.33	245
457316		0.23	0.005	<0.01	0.05	0.6	10	0.05	0.01	32.3	0.05	0.85	0.5	2	<0.05	1.5
457317		4.75	0.024	1.09	6.38	118.5	80	2.46	0.34	1.58	5.00	56.1	21.7	66	4.16	115.5
457318		4.83	0.026	1.44	4.98	141.0	60	1.96	0.41	2.00	6.92	46.2	23.4	56	3.49	146.0
457319		4.59	0.031	1.35	4.45	79.1	140	1.84	0.29	3.46	6.77	50.8	18.8	60	3.47	216
457320		4.84	0.015	0.83	7.14	80.4	200	2.67	0.33	1.63	3.30	54.9	25.2	72	4.58	126.0



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Page: 2 – B  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18192974**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457301		11.80	16.10	0.15	2.9	0.632	0.095	2.55	29.8	23.7	0.96	426	59.9	0.16	6.9	160.5
457302		11.00	22.2	0.14	3.4	0.290	0.110	3.55	28.0	27.9	0.70	203	13.10	0.21	7.0	139.5
457303		12.55	20.4	0.13	3.6	0.247	0.093	3.21	36.4	23.4	0.85	257	21.8	0.26	9.1	161.0
457304		12.90	19.55	0.17	3.6	0.464	0.088	3.20	33.3	23.7	0.86	263	20.6	0.15	9.8	159.5
457305		14.55	12.60	0.16	1.8	0.730	0.135	2.06	31.2	21.8	0.72	365	82.6	0.10	3.8	165.5
457306		8.13	13.80	0.14	2.7	0.339	0.071	2.19	33.1	40.4	1.22	1140	37.1	0.08	4.0	121.0
457307		9.06	12.25	0.12	3.1	0.231	0.069	2.15	35.2	36.9	1.16	1570	105.5	0.07	3.8	150.0
457308		10.80	13.10	0.08	3.4	0.025	0.055	2.17	31.7	27.8	1.82	2740	4.04	0.12	3.9	32.0
457309		6.86	17.85	0.07	3.6	0.020	0.074	0.83	22.6	14.9	2.71	885	2.31	1.61	18.4	137.5
457310		13.70	8.62	0.09	1.9	0.072	0.051	1.41	23.8	19.4	1.57	2140	16.45	0.07	2.4	50.0
457311		15.15	11.60	0.11	2.8	0.040	0.052	1.34	33.0	49.6	2.46	2160	5.03	0.06	3.3	49.6
457312		11.15	8.95	0.08	2.0	0.044	0.034	1.14	22.4	40.0	1.21	611	4.16	0.05	1.6	76.0
457313		24.4	9.24	0.18	2.0	0.231	0.059	1.36	22.6	31.1	0.58	190	62.6	0.04	1.3	253
457314		9.45	10.80	0.14	2.4	0.481	0.118	1.49	35.6	35.7	0.88	530	85.9	0.05	2.4	173.0
457315		12.10	8.09	0.11	1.5	0.392	0.088	1.18	26.7	22.2	1.21	1170	72.4	0.05	3.1	206
457316		0.15	0.20	<0.05	<0.1	<0.005	0.005	0.01	1.0	1.0	1.13	89	0.47	0.02	0.1	1.1
457317		12.65	17.00	0.13	3.1	0.598	0.082	2.86	33.9	32.3	1.06	434	27.0	0.14	7.3	163.0
457318		14.90	13.40	0.15	2.2	0.793	0.091	2.08	27.8	29.4	1.26	604	46.4	0.11	5.7	188.0
457319		13.15	12.50	0.14	2.5	0.516	0.104	1.90	31.5	28.7	1.77	1850	86.0	0.08	7.5	211
457320		11.15	19.20	0.13	3.9	0.414	0.065	3.15	33.6	37.2	1.13	533	16.15	0.17	10.5	147.0



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18192974**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457301		480	60.7	78.6	0.073	>10.0	5.65	10.4	9	1.6	56.0	0.43	0.52	4.56	0.146	4.66
457302		240	26.4	94.6	0.017	8.08	2.00	16.7	4	1.9	61.9	0.40	0.46	4.31	0.236	4.91
457303		340	21.5	86.8	0.025	8.27	1.37	14.2	6	2.1	67.7	0.57	0.32	5.18	0.201	4.44
457304		320	60.7	87.0	0.022	>10.0	4.55	12.2	7	2.0	58.8	0.62	0.52	5.31	0.193	4.98
457305		950	98.0	65.4	0.060	>10.0	4.81	8.3	10	1.2	46.5	0.24	0.58	4.52	0.089	3.47
457306		1840	24.2	75.1	0.032	4.33	2.05	8.8	11	1.7	65.8	0.24	0.20	7.28	0.117	2.58
457307		1640	33.1	76.8	0.047	4.60	2.67	9.5	10	1.7	65.7	0.23	0.33	7.42	0.097	2.66
457308		1470	9.0	79.1	0.007	1.53	0.49	8.7	3	1.7	74.5	0.22	0.12	8.08	0.083	2.07
457309		1080	13.2	35.8	<0.002	0.02	0.96	18.1	1	1.6	331	1.07	0.06	4.68	0.855	0.20
457310		2620	13.6	56.9	0.024	3.65	0.79	5.9	6	1.2	81.4	0.13	0.20	4.89	0.060	1.40
457311		3170	13.2	56.0	0.017	3.79	0.83	8.1	4	1.4	107.0	0.19	0.19	7.36	0.072	1.33
457312		1140	9.9	41.3	0.010	4.68	0.52	6.4	5	1.1	60.3	0.10	0.20	5.66	0.052	1.28
457313		780	38.4	49.8	0.051	>10.0	2.69	6.4	36	1.1	22.5	0.08	0.38	4.65	0.057	1.70
457314		1900	52.2	55.1	0.080	5.67	3.37	6.6	16	1.3	46.9	0.15	0.32	5.48	0.064	1.94
457315		1560	131.0	40.6	0.049	8.23	3.70	6.3	12	0.9	64.2	0.19	0.30	3.26	0.068	1.92
457316		60	0.6	0.3	<0.002	0.01	0.07	0.1	2	<0.2	75.7	<0.05	<0.05	0.05	<0.005	<0.02
457317		290	92.4	81.8	0.028	>10.0	6.05	11.5	8	1.8	51.9	0.46	0.71	4.79	0.173	4.30
457318		450	104.0	64.6	0.041	>10.0	6.94	11.1	10	1.3	53.9	0.37	0.75	3.86	0.128	3.58
457319		1680	67.5	61.1	0.055	9.75	4.18	10.9	12	1.4	91.3	0.46	0.49	3.83	0.144	3.00
457320		300	58.6	89.9	0.020	9.65	4.43	14.1	8	2.0	57.7	0.72	0.49	5.14	0.241	4.45



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18192974**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
457301	0.1	21.2	617	2.4	14.2	1490	108.0
457302		11.3	182	1.5	8.7	1070	130.0
457303		14.7	241	1.4	10.7	1200	134.0
457304		13.0	231	1.1	12.9	1060	129.0
457305		34.4	750	1.9	17.2	2610	71.7
457306		20.7	581	1.4	19.4	1270	97.9
457307		38.6	718	1.5	25.3	706	114.0
457308		5.9	110	1.0	12.5	151	117.0
457309		1.1	139	2.0	18.9	123	137.5
457310		10.0	230	0.7	13.4	435	67.2
457311		7.0	152	0.6	16.5	183	97.0
457312		4.4	178	0.6	8.6	170	66.5
457313		28.7	548	1.1	13.3	1160	73.9
457314		48.1	943	1.2	27.0	2920	88.9
457315		33.7	543	1.5	18.6	1400	57.1
457316		0.2	3	0.1	1.7	9	1.2
457317		15.6	267	1.6	10.5	958	113.0
457318		20.2	370	1.6	12.3	1280	82.0
457319		34.9	540	2.2	21.7	1220	94.9
457320		12.2	211	1.7	11.6	637	139.5

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
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**CERTIFICAT D'ANALYSE VO18192974**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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## CERTIFICAT VO18198520

Projet: Kan

Bon de commande #: KANDH18-071

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18198520**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557401		2.48	0.007	1.23	5.16	76.3	170	2.64	0.35	0.77	10.95	72.6	82.5	74	2.65	246
557402		2.92	0.004	0.94	6.08	30.4	240	2.98	0.40	0.40	10.75	77.0	33.7	85	3.00	218
557403		4.03	<0.001	0.40	6.97	25.6	310	2.46	0.30	0.49	1.49	99.6	51.6	68	2.81	122.0
557404		2.97	<0.001	0.78	7.05	33.4	350	2.53	0.41	0.66	2.36	91.8	56.0	59	3.23	152.5
557405		4.12	0.006	0.83	8.28	19.5	290	2.80	0.24	1.57	2.05	60.4	25.2	104	4.45	208
557406		4.73	0.010	1.22	2.28	33.1	50	0.36	0.31	3.45	2.73	36.9	38.4	39	0.87	230
557407		4.73	0.003	0.96	2.71	30.1	80	0.76	0.19	3.94	2.06	39.0	28.1	43	1.07	172.0
557408		4.91	0.006	0.86	8.00	40.1	240	2.52	0.14	0.86	2.54	59.4	46.6	98	4.75	140.5
557409		0.07	7.65	1.29	6.07	34.6	310	1.00	0.50	2.81	0.08	28.8	44.8	316	0.65	114.5
557410		4.88	0.006	1.19	4.74	59.0	100	1.10	0.26	1.80	1.48	58.4	54.4	57	2.02	190.5
557411		4.77	0.004	2.38	2.83	31.6	60	0.74	0.48	1.79	0.91	41.6	30.0	46	1.08	335
557412		4.41	0.012	1.43	4.93	19.5	170	1.38	0.23	1.16	4.34	56.5	23.7	60	2.94	144.5
557413		4.22	0.007	0.79	4.31	12.7	140	2.64	0.17	1.16	2.18	46.4	13.3	55	2.28	123.5
557414		4.71	0.015	1.91	2.92	11.9	120	1.02	0.40	1.52	7.17	43.7	20.9	55	1.61	210
557415		4.38	<0.001	0.89	8.39	13.6	230	2.62	0.16	1.22	2.59	80.8	21.0	97	4.88	144.0
557416		0.27	0.001	0.01	0.09	<0.2	20	0.07	0.01	34.4	0.02	1.18	0.8	2	<0.05	2.0
557417		4.67	0.019	1.46	7.30	83.3	190	1.54	0.27	1.66	4.06	65.6	21.4	82	4.28	124.5
557418		4.03	0.018	1.05	7.70	64.9	200	1.72	0.17	2.77	3.92	62.4	21.2	73	4.86	148.5
557419		4.03	0.032	1.74	6.20	131.0	140	1.69	0.35	1.20	6.65	54.3	28.1	67	4.07	127.5
557420		3.85	0.028	1.86	5.94	96.0	170	1.85	0.33	1.50	7.60	51.6	21.5	68	4.27	170.0



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18198520**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557401		15.00	13.40	0.14	2.8	0.336	0.076	1.94	33.0	36.8	1.00	601	13.50	0.09	3.5	154.0
557402		11.20	15.90	0.13	3.1	0.268	0.083	2.41	35.6	40.1	0.90	300	8.00	0.10	4.6	121.0
557403		7.42	18.10	0.12	3.9	0.067	0.106	2.48	40.2	67.7	1.64	2230	2.56	0.14	5.1	63.6
557404		6.72	18.30	0.11	4.0	0.115	0.112	2.81	39.3	48.6	1.17	787	5.49	0.16	5.2	107.0
557405		10.15	23.7	0.13	4.3	0.063	0.080	3.87	33.6	24.8	1.05	1540	15.95	0.21	9.3	116.0
557406		14.55	7.23	0.16	1.3	0.125	0.047	0.62	19.5	18.6	2.25	3260	30.1	0.04	2.9	136.5
557407		11.45	8.65	0.10	1.6	0.098	0.040	0.83	19.8	20.5	2.42	3750	22.8	0.05	3.7	97.5
557408		10.50	22.0	0.13	3.9	0.104	0.073	3.51	34.0	31.7	0.90	454	18.50	0.15	9.0	89.6
557409		5.58	16.60	0.07	2.5	0.135	0.046	1.07	13.8	16.9	4.02	741	5.81	1.20	17.3	243
557410		16.65	14.30	0.14	3.0	0.062	0.048	1.50	29.4	40.9	1.90	1440	12.05	0.07	7.5	124.5
557411		20.7	8.56	0.15	1.5	0.055	0.028	0.76	21.3	28.0	1.67	1800	34.1	0.04	2.8	178.0
557412		10.25	14.50	0.13	3.1	0.161	0.081	2.07	31.2	22.7	0.84	588	29.1	0.09	6.0	94.9
557413		9.51	12.60	0.12	2.3	0.065	0.055	1.63	23.7	28.7	1.15	1180	10.80	0.09	3.9	68.2
557414		14.90	8.69	0.14	1.7	0.240	0.102	1.06	22.7	20.0	1.06	1090	42.2	0.05	2.4	127.5
557415		10.35	25.4	0.15	6.8	0.074	0.098	3.70	44.9	33.4	1.06	427	14.25	0.16	22.7	92.8
557416		0.16	0.32	<0.05	0.1	<0.005	<0.005	0.02	1.2	1.3	1.58	96	0.15	0.03	0.2	1.0
557417		13.50	21.4	0.16	4.6	0.327	0.098	3.20	36.7	24.8	1.09	432	19.80	0.23	15.8	143.0
557418		12.15	21.5	0.14	4.1	0.273	0.104	3.35	35.8	28.8	1.68	579	15.30	0.21	11.1	144.5
557419		15.90	17.20	0.18	3.8	0.513	0.099	2.69	30.9	26.5	0.88	276	29.6	0.12	9.3	156.5
557420		16.65	16.85	0.16	2.9	0.450	0.096	2.63	30.1	26.8	1.04	413	37.0	0.12	6.3	208





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18198520**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557401		1770	20.4	69.4	0.040	>10.0	1.66	10.0	15	1.7	37.5	0.23	0.29	8.81	0.120	3.25
557402		1280	14.3	84.9	0.045	7.13	1.36	12.0	13	2.1	32.0	0.31	0.36	10.25	0.160	3.98
557403		610	6.5	89.1	0.004	1.86	0.39	12.1	2	2.3	36.4	0.32	0.18	10.70	0.137	3.66
557404		620	12.9	100.5	0.007	3.20	0.42	12.4	5	2.3	39.9	0.32	0.23	10.25	0.163	4.18
557405		290	15.9	115.0	0.014	5.70	1.31	17.5	7	2.1	74.3	0.50	0.20	5.51	0.247	5.35
557406		1990	28.3	21.4	0.026	7.89	1.42	4.5	9	0.6	81.6	0.17	0.23	2.73	0.061	1.13
557407		1330	20.8	28.8	0.022	5.79	0.89	5.8	8	0.8	98.5	0.21	0.16	3.38	0.075	1.36
557408		740	15.4	106.0	0.020	6.67	1.11	16.0	5	2.0	51.0	0.50	0.13	5.44	0.269	4.95
557409		1080	9.9	39.2	<0.002	0.09	0.78	21.3	1	1.0	280	0.93	0.21	2.32	0.682	0.22
557410		2230	19.9	47.3	0.017	9.61	1.12	9.7	6	1.2	60.4	0.41	0.27	5.75	0.131	2.20
557411		2110	30.3	26.3	0.033	>10.0	2.50	5.8	8	0.7	51.8	0.18	0.48	4.14	0.055	1.25
557412		1300	24.8	65.9	0.033	6.15	1.84	9.1	7	1.6	49.9	0.42	0.21	5.22	0.132	3.07
557413		1330	14.4	50.2	0.014	4.10	0.95	8.7	5	1.1	46.1	0.23	0.16	4.56	0.118	2.30
557414		1420	26.0	36.6	0.055	7.80	2.42	6.4	10	1.0	53.1	0.15	0.36	4.88	0.065	1.70
557415		510	19.4	104.5	0.015	5.55	1.02	17.1	5	3.1	62.2	1.17	0.16	7.74	0.283	4.79
557416		70	<0.5	0.7	<0.002	0.02	0.05	0.3	3	<0.2	84.5	<0.05	<0.05	0.09	0.006	0.03
557417		410	69.5	88.1	0.024	>10.0	3.90	14.5	5	2.3	70.4	0.79	0.48	6.07	0.234	4.70
557418		270	47.6	97.1	0.019	9.01	3.41	15.8	6	2.3	94.0	0.68	0.42	5.44	0.241	5.07
557419		400	98.5	82.7	0.038	>10.0	6.56	12.7	9	1.8	50.7	0.56	0.59	5.29	0.156	4.81
557420		380	96.5	84.0	0.037	>10.0	5.11	11.7	13	1.7	57.8	0.36	0.47	4.63	0.149	4.37



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 9-SEPT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18198520**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
557401		11.1	423	1.5	15.8	1520	98.2
557402		10.6	524	1.7	15.5	1420	108.0
557403		2.4	232	2.3	10.9	372	135.0
557404		3.9	194	3.1	11.0	471	140.5
557405		10.8	178	1.9	10.5	404	164.5
557406		16.0	400	1.1	13.9	586	51.2
557407		13.6	350	1.1	12.2	437	64.3
557408		14.5	289	1.7	12.3	532	144.5
557409		0.6	144	9.5	14.7	82	104.5
557410		10.1	220	1.0	12.8	349	112.0
557411		16.1	390	0.9	13.3	211	57.5
557412		19.8	433	1.1	15.0	871	107.5
557413		9.8	240	0.8	10.0	480	86.0
557414		19.5	540	1.0	14.8	1370	61.3
557415		11.9	207	1.4	15.6	559	270
557416		0.3	2	<0.1	2.1	5	2.2
557417		14.0	237	1.2	13.7	899	174.0
557418		12.4	198	1.3	12.1	860	152.0
557419		16.7	301	1.4	14.6	1290	129.5
557420		18.6	359	1.5	13.4	1410	111.0





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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 9-SEPT-2018  
Compte: MINVIR

## CERTIFICAT VO18198527

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Bon de commande #: KANDH18-070

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18198527**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457381		5.01	<0.001	0.11	6.27	0.2	370	2.04	0.16	0.52	0.23	48.0	16.3	74	4.02	17.7
457382		4.96	<0.001	0.23	6.33	0.3	370	2.11	0.14	0.55	0.27	45.7	16.8	75	4.06	20.0
457383		4.85	<0.001	0.08	7.37	<0.2	420	2.25	0.10	0.24	0.17	53.7	16.0	87	4.71	17.0
457384		4.72	<0.001	0.15	7.55	0.6	440	2.17	0.19	0.27	0.15	54.2	16.3	91	4.84	18.0
457385		4.83	<0.001	0.17	7.06	<0.2	410	2.31	0.22	0.29	0.16	51.9	16.0	84	4.45	17.4
457386		4.69	<0.001	0.08	7.13	<0.2	430	2.42	0.10	0.29	0.18	48.4	14.9	85	4.71	14.1
457387		4.77	<0.001	0.19	6.90	0.3	410	1.85	0.33	0.25	0.20	51.9	18.0	82	4.41	18.9
457388		4.52	<0.001	0.10	6.83	0.3	410	2.10	0.14	0.35	0.20	52.0	16.9	81	4.41	18.4
457389		0.07	2.53	0.45	7.07	12.2	340	1.14	0.17	4.77	0.08	43.9	56.2	321	0.70	85.1
457390		4.29	0.028	1.90	3.47	54.6	110	2.37	0.27	1.40	32.9	70.3	26.0	68	2.87	636
457391		4.49	0.029	2.13	3.34	35.5	110	2.55	0.31	1.48	30.4	63.0	20.3	62	3.07	740
457392		4.55	0.036	2.37	3.27	40.1	110	2.41	0.31	1.08	37.3	63.2	23.9	62	3.18	714
457393		4.41	0.034	2.00	3.18	29.6	120	2.55	0.34	1.37	28.8	63.6	13.1	63	3.26	529
457394		4.61	0.012	1.51	2.94	51.7	70	2.13	0.29	1.87	6.47	57.4	22.6	53	1.35	444
457395		4.68	0.027	2.27	2.21	25.6	100	1.76	0.45	1.57	18.45	47.6	18.9	59	1.99	518
457396		0.24	<0.001	0.01	0.06	1.9	90	0.08	0.01	18.85	0.09	1.44	0.8	3	0.49	3.8
457397		4.73	0.020	2.07	2.08	20.6	70	1.27	0.39	2.44	14.05	44.5	14.8	44	1.20	648
457398		4.65	0.014	1.65	4.84	25.2	180	2.26	0.26	1.92	9.58	55.2	18.0	63	3.12	450
457399		4.47	0.018	2.08	1.94	38.4	40	0.62	0.24	3.02	8.92	44.8	15.3	47	1.43	509
457400		3.67	0.034	2.26	3.20	105.0	120	1.29	0.33	2.50	13.35	41.5	25.9	52	2.89	298



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 9-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18198527**

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457381		13.20	17.50	0.06	1.9	<0.005	0.036	3.15	24.3	34.4	1.56	16250	1.04	0.70	6.8	28.2
457382		12.35	17.95	0.08	1.9	<0.005	0.036	3.19	23.1	33.7	1.49	14950	1.02	0.69	6.9	27.5
457383		10.20	20.4	0.09	2.1	<0.005	0.042	3.74	27.2	37.8	1.35	10600	0.74	0.74	7.6	29.8
457384		9.29	21.1	0.11	2.2	<0.005	0.040	3.92	27.0	38.3	1.30	9810	0.83	0.66	7.9	31.6
457385		9.68	19.80	0.09	2.0	<0.005	0.044	3.59	26.5	35.2	1.29	11350	1.09	0.71	7.7	30.3
457386		9.11	20.1	0.07	2.1	<0.005	0.039	3.69	25.4	36.2	1.27	10250	0.86	0.59	7.8	28.1
457387		10.05	19.45	0.10	2.0	<0.005	0.040	3.51	26.1	33.5	1.31	11500	1.45	0.69	7.4	32.7
457388		10.70	19.15	0.11	2.0	<0.005	0.043	3.48	26.5	32.7	1.37	12300	2.28	0.62	7.2	30.4
457389		7.80	19.90	0.07	3.7	0.041	0.057	1.03	20.7	9.6	5.82	1120	2.94	2.07	30.3	357
457390		15.00	11.00	0.23	2.7	1.055	0.083	1.28	44.4	25.6	1.03	2000	126.0	0.06	4.0	258
457391		14.90	10.70	0.23	2.5	0.976	0.079	1.28	40.2	25.0	1.01	2170	129.0	0.06	4.0	276
457392		15.40	10.15	0.26	2.5	1.145	0.095	1.32	41.0	24.6	0.78	1670	152.5	0.06	3.9	297
457393		11.90	9.78	0.22	2.6	0.852	0.072	1.31	41.3	31.0	1.02	2320	114.5	0.04	4.0	181.0
457394		14.20	9.70	0.17	2.1	0.213	0.019	0.64	31.6	34.0	1.64	2810	67.8	0.04	3.8	124.0
457395		15.45	7.39	0.23	1.6	0.480	0.062	0.76	30.9	22.0	1.05	2330	98.9	0.03	3.1	184.5
457396		0.18	0.29	<0.05	0.1	<0.005	<0.005	0.03	0.7	13.8	13.30	294	0.44	0.03	0.1	1.9
457397		17.95	6.95	0.20	1.4	0.379	0.062	0.51	26.4	20.8	1.57	3270	69.1	0.03	2.9	188.0
457398		16.60	13.75	0.17	1.9	0.241	0.062	1.84	31.0	30.6	1.26	1680	46.3	0.24	3.9	201
457399		18.20	6.17	0.16	1.1	0.274	0.040	0.49	27.8	18.0	1.88	3190	112.0	0.03	3.5	226
457400		16.05	8.80	0.18	1.4	0.756	0.060	1.33	25.2	23.0	1.35	1470	92.9	0.06	4.0	215



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18198527**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457381		360	12.3	138.5	<0.002	0.39	0.11	9.5	<1	1.1	95.4	0.48	<0.05	7.20	0.235	0.45
457382		350	11.2	142.0	<0.002	0.45	0.12	9.8	1	1.1	101.0	0.48	0.10	7.44	0.229	0.47
457383		390	9.2	167.0	0.002	0.34	0.12	11.5	<1	1.2	65.9	0.56	<0.05	8.62	0.270	0.54
457384		240	26.3	170.5	<0.002	0.33	0.12	11.8	1	1.3	69.6	0.59	<0.05	8.85	0.280	0.57
457385		210	43.4	161.5	0.002	0.36	0.13	11.1	1	1.2	71.7	0.55	0.08	8.49	0.263	0.54
457386		170	19.5	168.5	<0.002	0.30	0.13	11.5	1	1.3	69.7	0.56	<0.05	8.70	0.264	0.50
457387		270	48.6	159.5	<0.002	0.39	0.13	10.7	1	1.3	65.6	0.54	0.05	8.35	0.259	0.50
457388		310	26.6	157.0	<0.002	0.34	0.11	10.8	1	1.2	79.6	0.52	<0.05	8.28	0.248	0.51
457389		1930	5.2	33.3	<0.002	0.04	0.36	22.0	1	1.4	502	1.67	0.10	2.82	1.105	0.08
457390		2270	49.2	50.8	0.117	9.53	5.13	7.1	30	1.2	41.9	0.26	0.52	5.30	0.077	2.91
457391		2230	51.0	52.2	0.124	9.20	5.41	7.2	31	1.1	47.0	0.26	0.48	4.98	0.075	3.18
457392		2260	57.2	54.7	0.125	9.89	6.28	6.7	39	1.2	36.9	0.26	0.50	4.86	0.072	3.35
457393		2470	47.2	54.7	0.111	6.72	5.56	6.6	27	1.2	42.5	0.31	0.58	4.69	0.076	3.32
457394		2080	30.8	28.8	0.061	8.01	3.24	5.5	20	0.8	56.6	0.23	0.68	4.57	0.052	1.65
457395		2160	49.4	33.2	0.103	8.80	5.20	4.6	27	0.9	49.5	0.20	0.83	3.68	0.044	2.00
457396		70	2.4	1.4	<0.002	0.02	0.21	0.2	2	<0.2	114.5	<0.05	<0.05	0.11	0.005	0.08
457397		2440	41.0	22.1	0.063	9.67	3.98	4.5	27	0.6	64.3	0.19	0.78	3.31	0.042	1.36
457398		1110	32.2	66.1	0.050	9.23	2.79	8.9	17	1.2	63.1	0.23	0.48	4.41	0.099	3.80
457399		3000	36.4	20.9	0.063	>10.0	3.65	4.6	16	0.5	62.2	0.20	0.31	2.70	0.061	1.42
457400		1320	61.9	48.9	0.076	>10.0	6.68	6.4	20	0.9	62.0	0.23	0.41	3.34	0.081	3.26



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 9-SEPT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18198527**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
457381		1.9	90	1.3	6.3	80	69.9
457382		2.1	104	1.3	5.8	89	72.2
457383		2.0	103	1.5	6.0	82	74.1
457384		2.1	110	1.6	5.6	78	78.1
457385		2.0	103	1.5	5.3	77	73.9
457386		2.1	114	1.6	4.9	76	75.7
457387		2.0	101	1.5	5.3	75	72.1
457388		2.1	103	1.5	5.6	72	73.3
457389		0.7	154	3.5	20.9	108	152.0
457390		66.3	1210	2.4	37.8	4710	105.0
457391		65.9	1180	2.5	36.4	4180	98.4
457392		74.3	1400	2.9	40.4	5210	103.5
457393		62.7	1270	2.3	31.8	3970	96.1
457394		36.5	666	0.6	21.6	900	84.6
457395		58.4	1010	0.8	23.3	2610	63.5
457396		0.4	4	0.4	1.0	17	2.2
457397		36.1	711	0.7	21.8	2170	55.5
457398		27.2	520	1.2	14.4	1510	77.1
457399		44.9	929	2.2	25.3	1510	45.9
457400		39.5	898	2.4	20.8	2250	55.6







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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 2-SEPT-2018  
Compte: MINVIR

## CERTIFICAT VO18198532

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Bon de commande #: KANDH18-069

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 13-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 2-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18198532**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
457361		5.07	<0.001	0.08	6.09	0.4	340	1.88	0.13	0.46	0.21	47.4	14.8	72	4.24	18.1
457362		5.05	<0.001	0.14	6.65	0.2	380	2.00	0.21	0.42	0.17	48.5	15.3	78	4.36	16.7
457363		4.96	<0.001	0.08	6.06	0.2	350	1.86	0.12	0.54	0.19	45.6	14.5	71	4.12	16.1
457364		4.87	<0.001	0.10	6.22	0.9	390	1.86	0.17	0.55	0.24	44.4	14.3	72	3.95	12.6
457365		4.83	<0.001	0.06	6.15	0.2	370	1.95	0.08	0.46	0.20	44.7	14.0	72	3.82	18.2
457366		4.97	0.001	0.10	7.56	0.7	400	2.19	0.10	0.30	0.25	53.3	16.0	90	5.97	23.0
457367		4.61	0.005	0.18	7.65	<0.2	410	2.72	0.18	0.13	0.05	54.2	18.6	95	11.20	27.9
457368		4.96	0.008	0.24	6.19	0.5	260	2.32	0.21	0.08	0.03	27.8	20.5	89	5.93	39.1
457369		0.07	0.677	0.20	6.88	19.8	320	1.50	0.14	4.25	0.18	41.9	40.4	181	1.73	54.1
457370		4.93	0.003	0.15	8.56	<0.2	470	2.63	0.17	0.16	0.27	66.5	20.1	102	13.50	37.1
457371		5.05	<0.001	0.15	7.91	<0.2	430	2.32	0.18	0.33	0.20	61.1	16.9	92	5.53	26.3
457372		4.93	<0.001	0.07	7.63	1.3	440	2.22	0.09	0.29	0.32	55.9	14.5	90	5.46	17.4
457373		4.97	<0.001	0.11	6.98	0.2	420	2.02	0.13	0.32	0.17	52.8	16.0	81	5.37	20.9
457374		4.73	<0.001	0.06	7.32	3.2	520	2.04	0.04	0.17	0.14	49.0	13.7	73	7.72	17.5
457375		4.66	<0.001	0.08	7.05	0.2	540	1.89	0.09	0.18	0.15	45.8	12.7	67	9.38	19.2
457376		0.22	0.001	0.01	0.09	0.2	20	0.08	0.01	32.9	0.03	1.26	0.6	2	0.08	1.8
457377		4.82	<0.001	0.10	6.90	0.2	470	1.95	0.16	0.37	0.17	50.6	15.2	78	5.70	20.4
457378		5.24	<0.001	0.06	2.78	0.8	160	1.00	0.08	0.82	0.14	25.5	11.5	40	3.23	16.3
457379		5.02	<0.001	0.10	7.55	1.4	410	2.37	0.12	0.39	0.19	56.4	16.6	92	13.95	24.7
457380		4.98	<0.001	0.08	6.72	<0.2	370	2.05	0.11	0.32	0.18	53.9	15.7	78	4.42	19.7



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 2-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18198532**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
457361		11.40	16.10	0.08	1.9	<0.005	0.038	2.97	25.1	28.6	1.39	13350	1.34	0.61	6.5	29.4
457362		10.75	16.60	0.10	2.0	<0.005	0.039	3.25	25.7	29.7	1.36	12050	1.25	0.62	6.6	30.4
457363		11.45	15.60	0.08	1.8	<0.005	0.039	2.98	24.9	28.5	1.43	13550	1.06	0.56	6.3	29.1
457364		9.24	15.75	0.08	1.9	<0.005	0.035	3.01	24.0	28.9	1.27	12050	1.06	0.65	6.3	28.6
457365		11.40	15.40	0.09	1.8	0.007	0.042	3.04	24.0	28.9	1.44	13350	1.29	0.57	6.1	29.0
457366		9.97	18.40	0.11	2.0	<0.005	0.044	3.78	28.8	42.7	1.33	9300	0.96	0.72	7.3	33.7
457367		8.58	19.00	0.10	1.9	<0.005	0.048	3.53	28.7	70.0	1.38	445	2.13	0.35	8.2	44.0
457368		12.15	17.30	0.08	1.6	0.007	0.046	2.22	13.5	58.6	1.93	492	5.63	0.02	8.4	46.2
457369		7.14	17.60	0.09	3.6	0.029	0.065	0.85	19.3	15.8	2.78	915	2.20	1.66	19.2	136.5
457370		8.02	21.3	0.11	2.5	0.007	0.053	4.75	34.4	62.4	1.21	3620	0.98	0.28	8.4	45.0
457371		10.45	19.60	0.12	2.3	<0.005	0.044	4.10	32.1	45.0	1.29	10700	1.17	0.58	8.0	36.4
457372		9.56	19.30	0.09	2.3	0.009	0.043	3.96	28.7	44.9	1.26	9640	0.81	0.55	7.9	36.1
457373		8.35	17.75	0.10	2.1	0.005	0.039	3.60	27.8	43.2	1.17	8240	1.13	0.56	7.1	32.6
457374		4.70	17.55	0.08	3.2	0.006	0.037	3.83	24.6	53.5	0.87	1540	1.02	0.61	6.8	28.4
457375		4.05	16.70	0.08	3.0	0.006	0.035	3.74	22.6	58.2	0.83	845	0.86	0.63	6.4	25.7
457376		0.20	0.30	0.07	0.1	0.005	0.006	0.03	1.4	1.7	2.25	157	0.25	0.03	0.1	1.4
457377		9.19	17.00	0.08	2.1	<0.005	0.043	3.57	26.3	42.6	1.29	9420	1.60	0.48	6.9	30.3
457378		15.70	7.80	0.07	0.9	<0.005	0.024	1.49	13.9	19.1	1.95	15300	0.91	0.10	5.1	19.3
457379		9.75	19.65	0.10	2.3	<0.005	0.049	4.24	30.0	66.5	1.51	5930	0.95	0.12	8.7	40.7
457380		10.50	17.15	0.09	2.1	<0.005	0.040	3.38	28.4	39.5	1.30	12850	0.71	0.63	8.0	32.2



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 2-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18198532**

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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
457361		320	5.9	137.0	0.002	0.37	0.16	9.4	<1	1.0	79.3	0.51	<0.05	7.38	0.226	0.44
457362		380	22.7	142.0	<0.002	0.37	0.16	9.9	1	1.1	78.1	0.54	<0.05	7.84	0.243	0.42
457363		370	8.6	132.5	<0.002	0.36	0.14	9.5	1	1.0	91.6	0.49	<0.05	7.33	0.224	0.39
457364		330	16.2	129.0	<0.002	0.26	0.13	9.2	1	1.0	93.4	0.50	<0.05	7.42	0.228	0.42
457365		350	5.6	126.0	<0.002	0.40	0.12	9.3	1	1.0	81.1	0.47	<0.05	7.28	0.226	0.38
457366		350	9.4	160.0	0.002	0.57	0.19	11.7	1	1.2	78.9	0.57	<0.05	8.98	0.269	0.58
457367		310	6.3	176.5	0.004	0.96	0.26	12.3	2	1.3	47.1	0.58	0.07	8.30	0.274	0.85
457368		220	7.6	66.3	0.004	1.64	0.32	10.7	2	1.1	28.3	0.61	0.08	4.72	0.265	0.51
457369		1120	13.6	28.7	<0.002	0.02	0.99	18.4	1	1.6	344	1.19	<0.05	4.31	0.885	0.17
457370		380	7.7	223	0.003	0.97	0.23	14.0	1	1.4	53.4	0.67	<0.05	10.25	0.301	0.97
457371		570	17.3	167.5	0.002	0.47	0.16	11.9	1	1.3	75.6	0.61	<0.05	9.72	0.283	0.55
457372		290	11.3	162.5	0.002	0.27	0.15	11.9	1	1.3	68.3	0.62	<0.05	9.48	0.283	0.53
457373		320	19.3	153.5	0.002	0.41	0.14	11.0	1	1.2	79.8	0.58	<0.05	8.66	0.256	0.47
457374		150	5.4	167.5	<0.002	0.28	0.13	9.2	1	1.1	74.4	0.55	<0.05	9.50	0.229	0.58
457375		130	8.9	171.0	0.002	0.31	0.12	8.6	1	1.0	81.6	0.52	<0.05	8.58	0.215	0.65
457376		80	0.6	1.1	<0.002	0.02	0.11	0.2	1	<0.2	77.8	<0.05	<0.05	0.14	0.006	<0.02
457377		300	21.3	153.0	<0.002	0.36	0.12	9.9	1	1.1	80.8	0.53	<0.05	7.93	0.247	0.44
457378		350	4.7	66.1	<0.002	0.31	0.07	4.5	1	0.5	70.3	0.32	<0.05	3.13	0.136	0.22
457379		350	4.9	208	0.003	0.48	0.16	12.2	1	1.2	74.3	0.66	<0.05	8.67	0.288	0.81
457380		380	5.4	142.0	<0.002	0.40	0.14	10.1	1	1.1	69.9	0.59	<0.05	8.05	0.242	0.39



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 2-SEPT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18198532**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
457361		2.0	85	1.1	6.0	82	67.2
457362		2.0	93	1.3	5.9	78	69.0
457363		2.0	87	1.2	6.0	75	66.0
457364		1.8	92	1.2	5.3	80	68.7
457365		1.9	87	1.1	5.4	88	64.6
457366		3.2	125	1.3	6.2	126	72.7
457367		3.6	161	1.2	6.1	156	68.8
457368		5.0	178	1.0	4.0	202	57.8
457369		1.2	144	2.0	18.0	126	142.0
457370		3.4	144	1.4	6.5	154	81.9
457371		2.4	117	1.3	6.5	90	82.8
457372		2.2	98	1.4	5.7	106	82.4
457373		2.4	96	1.2	5.4	82	73.4
457374		2.2	77	0.8	5.2	74	115.5
457375		2.0	75	0.8	4.8	88	108.0
457376		0.3	3	0.1	2.2	7	1.9
457377		2.0	90	1.0	5.6	77	77.7
457378		1.2	72	0.5	4.9	46	36.4
457379		2.9	152	1.4	6.7	108	78.4
457380		2.1	91	1.2	6.3	72	77.5





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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 10-SEPT-2018  
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## CERTIFICAT VO18203462

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Bon de commande #: KANDH18-PRIORITY-035

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 17-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 10-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18203462**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555441		2.67	1.085	0.03	0.27	1.4	30	0.44	0.03	1.94	0.17	4.08	4.2	8	4.17	6.5
555442		2.66	0.090	0.03	0.19	0.5	20	0.34	0.02	2.22	0.15	5.82	3.3	6	2.71	3.8
555443		2.59	0.143	0.01	0.12	0.3	10	0.24	0.02	2.33	0.10	3.91	2.6	10	1.95	3.7
555444		2.61	2.49	0.19	0.12	5.6	10	0.37	0.02	1.54	0.08	4.13	3.6	10	1.86	4.9
555445		2.62	0.002	0.02	0.61	18.7	20	0.91	0.04	1.60	0.02	13.85	9.1	28	2.85	4.9
555446		0.29	<0.001	<0.01	0.12	<0.2	20	0.12	0.01	30.8	<0.02	0.99	1.6	3	<0.05	2.6
555447		2.64	<0.001	0.02	0.62	5.9	<10	0.92	0.03	1.92	<0.02	13.35	7.3	26	0.15	5.9
555448		2.32	<0.001	0.02	0.50	9.5	<10	0.86	0.03	5.25	<0.02	13.00	6.8	21	0.24	6.6
555449		2.57	0.206	0.03	0.77	10.1	20	1.44	0.04	4.78	0.02	16.90	9.1	36	0.82	8.8
555450		2.55	<0.001	0.02	0.49	1.5	10	0.94	0.03	2.35	<0.02	11.80	7.2	26	0.65	9.3
555451		2.68	<0.001	0.02	0.56	2.8	10	1.19	0.03	2.02	<0.02	14.45	8.2	28	0.84	8.3
555452		2.72	<0.001	0.01	0.55	0.5	10	0.81	0.02	2.25	<0.02	12.45	6.7	26	0.98	6.1
555453		2.43	<0.001	0.02	0.57	0.6	20	0.96	0.02	1.79	<0.02	12.55	8.4	22	5.66	6.4
555454		1.24	<0.001	0.01	0.58	0.4	20	0.59	0.01	2.95	0.15	13.30	7.5	23	5.38	4.7
555455		2.12	<0.001	0.06	1.48	1.4	40	0.81	0.06	2.09	0.22	19.85	8.1	40	0.94	7.9
555456		2.52	<0.001	0.03	0.70	0.6	10	0.49	0.03	1.42	0.11	12.55	8.7	28	0.18	5.7
555457		2.57	<0.001	0.04	0.90	0.4	10	0.69	0.04	1.81	0.09	13.70	8.9	27	0.14	9.6
555458		2.38	<0.001	0.03	0.64	0.7	10	0.61	0.02	1.26	0.08	11.75	6.6	28	0.16	5.7
555459		0.07	7.56	1.33	5.73	34.0	290	0.94	0.49	2.79	0.09	29.7	42.4	305	0.58	110.0
555460		3.34	0.001	0.04	0.98	1.7	20	0.56	0.05	1.11	0.17	14.80	9.1	29	0.40	9.3



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 10-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18203462**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555441		27.1	1.07	0.13	<0.1	0.022	<0.005	0.14	2.5	0.9	4.06	8110	0.55	0.06	0.8	1.5
555442		26.3	0.86	0.13	<0.1	0.007	<0.005	0.10	3.8	0.7	3.95	8240	0.33	0.04	0.4	1.0
555443		18.40	0.64	0.10	<0.1	0.011	<0.005	0.07	2.6	0.5	2.83	6160	0.62	0.03	0.3	1.2
555444		24.5	0.63	0.13	<0.1	0.027	<0.005	0.06	2.8	0.5	3.64	7350	0.62	0.03	0.3	1.5
555445		21.9	2.73	0.13	0.4	<0.005	0.014	0.10	7.7	1.9	2.94	12150	1.00	0.03	3.9	10.2
555446		0.29	0.38	<0.05	<0.1	<0.005	0.008	0.02	1.1	0.9	1.20	183	0.18	0.06	0.2	0.4
555447		18.95	2.87	0.12	0.3	<0.005	0.014	0.02	7.8	2.6	2.65	12800	0.96	<0.01	3.3	8.8
555448		16.55	1.93	0.10	0.4	<0.005	0.013	0.03	7.2	2.3	3.33	10500	0.74	<0.01	4.9	8.6
555449		16.70	3.23	0.11	0.6	0.005	0.018	0.11	9.3	4.3	3.26	11950	1.35	<0.01	5.5	12.4
555450		17.65	2.12	0.12	0.4	0.006	0.013	0.09	6.6	2.6	2.59	10850	1.04	<0.01	3.4	8.9
555451		21.0	2.59	0.12	0.5	0.007	0.015	0.12	8.0	3.0	3.17	10900	1.23	<0.01	4.6	9.3
555452		19.00	2.92	0.12	0.4	<0.005	0.014	0.10	6.8	2.3	2.90	10800	1.02	0.01	4.2	8.2
555453		19.20	2.79	0.10	0.4	0.033	0.016	0.26	7.0	2.5	2.84	11950	1.00	0.05	4.0	9.1
555454		14.55	2.57	0.10	0.4	0.017	0.015	0.26	7.4	2.6	2.27	13550	1.26	0.05	4.4	10.0
555455		15.65	5.89	0.11	0.7	<0.005	0.021	0.72	11.2	6.0	2.28	20800	3.98	0.02	5.4	14.0
555456		18.75	3.57	0.12	0.5	0.006	0.016	0.16	7.0	6.8	2.58	18800	1.48	0.01	4.3	12.5
555457		17.95	4.54	0.12	0.6	<0.005	0.017	0.12	7.7	10.3	2.78	15000	1.17	<0.01	5.1	14.5
555458		16.50	3.52	0.12	0.4	<0.005	0.013	0.15	6.1	6.3	2.25	13850	1.16	0.01	4.1	8.8
555459		5.25	14.15	0.09	2.3	0.167	0.054	1.00	15.6	14.1	3.74	718	5.85	1.12	16.5	233
555460		19.05	4.63	0.13	0.6	<0.005	0.022	0.48	8.3	4.2	2.48	18050	1.53	0.01	5.2	12.8



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18203462**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555441		180	2.2	5.0	<0.002	0.42	0.36	0.2	1	<0.2	55.2	0.06	0.07	0.08	<0.005	<0.02
555442		40	1.1	3.2	<0.002	0.26	0.11	0.2	1	<0.2	52.6	<0.05	<0.05	0.06	<0.005	<0.02
555443		70	0.9	2.4	<0.002	0.27	0.10	0.1	1	<0.2	45.7	<0.05	<0.05	0.03	<0.005	<0.02
555444		110	0.8	2.2	<0.002	0.34	0.09	0.1	1	<0.2	31.2	<0.05	0.05	0.03	<0.005	<0.02
555445		350	1.6	4.1	<0.002	0.19	0.21	1.8	1	0.2	24.9	0.19	0.07	0.78	0.064	<0.02
555446		70	<0.5	0.5	<0.002	<0.01	<0.05	0.2	1	<0.2	80.3	<0.05	<0.05	0.06	0.005	<0.02
555447		370	1.3	0.8	<0.002	0.13	0.12	1.8	1	0.2	18.6	0.16	0.05	0.71	0.056	<0.02
555448		390	2.0	1.5	<0.002	0.17	0.11	1.4	1	0.2	32.0	0.25	<0.05	0.72	0.064	0.02
555449		460	1.8	6.2	<0.002	0.22	0.13	2.4	1	0.4	26.2	0.30	0.08	1.09	0.086	0.11
555450		400	1.2	5.0	<0.002	0.14	0.11	1.5	1	0.2	17.5	0.20	0.06	0.60	0.066	0.09
555451		410	1.5	6.2	<0.002	0.14	0.08	1.7	1	0.2	17.2	0.30	0.05	0.80	0.078	0.08
555452		410	1.0	5.1	<0.002	0.11	0.20	1.7	1	0.2	23.3	0.26	0.05	0.70	0.082	0.04
555453		510	1.3	15.1	<0.002	0.08	0.12	1.7	1	0.2	31.5	0.26	0.05	0.69	0.079	0.07
555454		530	1.3	15.7	<0.002	0.11	0.11	1.7	1	0.2	66.4	0.28	<0.05	0.78	0.080	0.08
555455		530	4.3	37.3	<0.002	0.20	0.07	4.0	1	0.3	190.5	0.31	<0.05	1.59	0.128	0.18
555456		470	1.5	8.3	<0.002	0.12	0.05	2.2	1	<0.2	90.7	0.22	<0.05	0.70	0.086	0.03
555457		540	1.6	6.0	<0.002	0.18	0.06	2.9	1	<0.2	71.8	0.30	<0.05	0.87	0.121	0.02
555458		470	1.1	7.6	<0.002	0.11	<0.05	2.0	1	<0.2	43.9	0.20	<0.05	0.62	0.082	0.03
555459		1050	9.2	39.5	<0.002	0.08	0.79	21.0	1	0.9	263	0.88	0.26	2.26	0.632	0.19
555460		520	2.3	23.2	<0.002	0.25	0.05	2.8	1	0.2	75.0	0.27	<0.05	0.99	0.110	0.08



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 10-SEPT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18203462**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555441		0.1	12	0.2	5.7	34	3.3
555442		<0.1	11	0.1	5.0	27	1.6
555443		<0.1	8	0.1	3.9	18	0.8
555444		<0.1	8	0.1	3.9	16	1.3
555445		0.6	38	0.2	7.7	12	18.8
555446		0.2	2	0.1	1.9	4	1.3
555447		0.6	35	0.2	7.6	11	16.8
555448		0.6	33	0.2	8.0	11	22.1
555449		0.8	50	0.2	9.3	16	26.9
555450		0.5	33	0.2	7.1	11	17.4
555451		0.4	43	0.2	7.9	11	22.6
555452		0.4	45	0.2	6.8	10	21.2
555453		0.3	47	0.2	5.8	12	20.5
555454		0.3	42	0.2	4.6	13	22.3
555455		1.1	93	0.2	5.9	54	32.8
555456		0.4	63	0.1	5.0	46	22.7
555457		0.7	80	0.1	5.5	59	28.8
555458		0.4	58	0.1	4.6	48	22.3
555459		0.6	136	8.4	15.2	80	97.7
555460		0.7	75	0.1	5.2	57	28.8



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **10-SEPT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18203462**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada

Applique à la Méthode:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applique à la Méthode:	Au-ICP21	Hg-MS42	ME-MS61
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À: **MINIÈRE OSISKO INC.**  
**300, RUE ST-PAUL**  
**BUREAU 200**  
**QUEBEC QC G1K 7R1**

Page: 1  
Nombre total de pages: 2 (A - D)  
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Compte: MINVIR

**CERTIFICAT VO18203464**

Projet: Kan  
Bon de commande #: KANDH18-072  
Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 17-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18203464**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557421		3.42	0.026	1.45	6.74	111.5	110	1.71	0.25	2.07	5.83	59.5	18.6	71	4.38	83.4
557422		4.51	0.054	2.54	5.84	177.5	70	1.63	0.51	0.49	10.85	65.0	23.3	74	4.02	85.1
557423		4.69	0.028	1.46	5.88	114.5	150	1.38	0.25	4.02	3.62	58.9	16.4	64	3.63	96.9
557424		4.75	0.057	1.94	6.67	172.0	100	1.82	0.37	1.10	6.91	66.2	22.2	77	4.58	65.2
557425		4.32	0.024	1.28	6.58	111.0	130	1.79	0.24	3.11	3.79	61.7	18.4	66	4.49	83.2
557426		4.22	0.041	1.86	4.41	100.5	80	1.51	0.31	0.68	14.60	49.9	19.9	64	4.22	148.5
557427		4.62	0.047	1.89	3.35	30.9	130	1.19	0.30	1.64	13.35	47.6	12.4	59	3.30	191.5
557428		4.84	0.019	1.08	8.95	60.6	240	1.90	0.28	1.10	3.43	62.7	27.3	98	5.85	126.5
557429		0.07	0.667	0.20	7.03	19.8	320	1.48	0.14	4.30	0.18	50.2	42.2	183	1.88	54.7
557430		4.96	0.013	0.89	8.45	66.5	190	1.26	0.21	1.21	3.91	56.4	24.5	100	4.43	129.0
557431		4.97	0.033	1.11	6.82	78.6	140	0.99	0.28	2.35	4.52	55.0	20.5	80	3.68	102.0
557432		4.98	0.041	1.36	6.81	104.0	140	0.95	0.30	2.59	6.34	58.8	21.6	73	3.92	73.7
557433		4.99	0.044	1.26	4.34	119.0	100	0.67	0.31	4.24	6.34	45.2	20.6	55	2.69	100.5
557434		4.78	0.050	1.15	6.79	100.5	120	1.18	0.32	2.17	6.14	56.8	21.9	73	4.72	128.0
557435		4.44	0.043	1.02	7.63	92.1	190	1.15	0.34	0.68	4.39	64.5	28.5	84	4.94	118.0
557436		0.38	<0.001	0.01	0.10	<0.2	20	0.05	0.01	34.4	0.03	1.18	0.6	2	0.05	1.7
557437		4.85	0.024	0.90	7.89	84.2	210	1.42	0.29	1.23	4.23	64.6	24.9	87	5.49	123.5
557438		4.96	0.020	0.99	8.09	77.0	210	1.50	0.24	0.68	3.68	65.3	26.7	80	5.56	160.5
557439		4.30	0.016	0.81	8.83	49.6	170	1.08	0.23	1.20	1.93	63.9	22.1	92	4.22	148.5
557440		4.69	0.013	0.80	8.45	53.2	190	1.16	0.18	1.50	2.61	63.4	21.2	94	4.82	165.5



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18203464**

Description échantillon	Méthode	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	élément	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	unités	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LDI	0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
557421		12.80	17.10	0.19	3.2	0.501	0.094	2.84	35.1	26.1	1.19	487	25.6	0.21	7.2	150.5
557422		17.20	15.55	0.23	2.4	0.892	0.150	2.51	37.4	22.1	0.45	134	46.0	0.12	7.4	169.5
557423		13.55	14.80	0.17	2.9	0.421	0.070	2.41	34.3	24.8	1.99	836	18.95	0.25	8.3	173.5
557424		15.35	17.40	0.21	2.7	0.823	0.112	2.91	38.4	25.2	0.73	231	32.9	0.15	9.6	172.0
557425		11.95	16.95	0.17	3.2	0.475	0.070	2.83	35.7	27.6	1.62	598	20.9	0.14	8.2	151.0
557426		13.70	11.70	0.19	1.8	0.644	0.132	1.93	30.0	18.7	0.53	258	111.0	0.07	3.2	177.0
557427		11.65	8.70	0.16	1.8	0.336	0.123	1.49	29.3	14.9	0.91	752	109.0	0.05	2.9	179.0
557428		10.45	22.0	0.17	3.8	0.298	0.084	3.83	37.7	28.5	0.88	247	13.95	0.40	7.9	120.0
557429		7.18	18.25	0.12	3.6	0.025	0.070	0.86	22.4	14.2	2.80	897	2.25	1.67	18.8	139.0
557430		11.55	20.3	0.17	3.5	0.219	0.098	3.04	33.5	24.7	0.97	260	12.05	1.01	6.1	127.5
557431		11.70	16.75	0.16	3.1	0.372	0.082	2.41	32.5	17.5	1.26	338	19.60	1.09	6.5	125.0
557432		12.85	17.55	0.17	3.2	0.395	0.089	2.55	34.1	17.1	1.35	372	22.2	0.89	8.5	146.0
557433		16.45	10.85	0.15	1.7	0.487	0.085	1.62	26.2	19.7	2.19	509	31.2	0.29	6.3	146.0
557434		13.55	17.80	0.15	3.3	0.403	0.115	2.89	33.5	20.7	1.19	257	24.1	0.23	7.2	140.0
557435		12.15	20.3	0.09	3.3	0.350	0.112	2.85	36.6	18.3	0.57	120	26.6	0.99	8.5	117.5
557436		0.14	0.23	<0.05	<0.1	<0.005	0.005	0.02	1.3	1.1	1.36	89	0.18	0.04	0.1	<0.2
557437		11.50	20.8	0.09	3.5	0.306	0.102	3.21	37.5	21.4	0.81	229	19.95	0.64	8.4	125.5
557438		12.00	21.5	0.09	4.1	0.321	0.096	3.45	36.4	20.9	0.60	129	15.90	0.46	9.9	146.0
557439		9.90	21.3	0.10	3.8	0.215	0.073	2.61	38.4	18.4	0.86	211	13.45	2.32	9.0	118.0
557440		10.95	21.4	0.10	3.5	0.250	0.090	2.88	36.9	20.2	1.00	247	14.00	1.52	8.0	140.0





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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18203464**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557421		270	92.6	75.4	0.026	>10.0	5.09	11.1	7	1.9	71.3	0.47	0.44	5.62	0.151	4.37
557422		720	214	71.0	0.050	>10.0	8.08	9.4	10	1.7	37.8	0.48	0.72	5.54	0.128	4.68
557423		280	75.8	62.9	0.022	>10.0	5.71	11.3	6	1.7	108.5	0.54	0.42	4.94	0.160	3.75
557424		510	125.0	79.2	0.038	>10.0	8.94	10.9	8	1.8	50.0	0.53	0.67	5.48	0.172	5.05
557425		270	89.7	77.3	0.023	>10.0	6.23	11.7	7	1.8	88.8	0.54	0.47	5.44	0.165	4.65
557426		790	99.1	59.8	0.074	>10.0	5.23	8.4	11	1.3	37.5	0.21	0.46	4.44	0.078	3.36
557427		1590	92.3	46.6	0.077	7.40	2.40	6.8	11	1.1	60.5	0.18	0.23	3.77	0.072	2.41
557428		240	51.7	93.0	0.016	8.37	3.59	16.9	4	1.9	68.4	0.41	0.64	5.14	0.248	4.95
557429		1100	13.5	37.1	<0.002	0.02	0.99	19.2	1	1.6	345	1.12	<0.05	4.94	0.867	0.19
557430		250	45.1	72.4	0.015	8.98	2.36	17.3	5	1.6	74.7	0.37	0.35	4.65	0.221	3.63
557431		260	52.2	58.4	0.022	9.92	3.87	12.5	5	1.4	90.5	0.41	0.50	4.83	0.170	3.26
557432		220	73.3	60.3	0.024	>10.0	5.23	11.4	5	1.6	89.8	0.60	0.57	5.24	0.180	3.56
557433		350	70.2	41.6	0.029	>10.0	4.68	9.4	7	1.1	107.0	0.43	0.53	3.65	0.120	2.35
557434		310	78.3	71.2	0.022	>10.0	4.13	12.9	6	1.6	85.1	0.44	0.55	4.90	0.176	3.97
557435		290	62.4	88.6	0.026	>10.0	4.40	12.9	5	1.7	65.1	0.48	0.62	5.70	0.245	4.08
557436		70	0.8	0.7	<0.002	0.02	0.07	0.2	1	<0.2	87.1	<0.05	<0.05	0.08	0.006	0.03
557437		240	83.2	95.1	0.021	>10.0	4.33	13.5	5	1.8	76.8	0.52	0.47	5.71	0.258	4.39
557438		240	57.2	97.3	0.017	>10.0	4.40	13.4	4	2.2	60.8	0.60	0.44	5.72	0.263	4.56
557439		260	91.7	77.0	0.011	7.89	3.54	15.3	3	1.7	86.7	0.51	0.39	5.57	0.309	3.21
557440		250	92.9	83.4	0.013	8.65	3.44	15.1	5	1.7	89.0	0.46	0.39	5.32	0.276	3.59



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Page: 2 - D  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18203464**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
557421		15.8	262	1.1	12.3	1100	120.0
557422		24.6	392	1.3	17.8	2040	97.4
557423		13.0	217	1.0	10.9	772	106.0
557424		21.3	341	1.3	13.1	1360	104.0
557425		14.5	233	1.2	11.7	708	119.0
557426		46.5	920	2.1	19.8	2280	72.8
557427		49.6	941	1.9	22.6	2000	70.7
557428		12.4	183	1.1	9.9	481	140.0
557429		1.1	144	2.0	19.7	126	141.5
557430		11.3	169	0.7	9.6	538	131.0
557431		13.0	197	0.7	10.0	673	114.5
557432		14.8	252	0.8	11.0	991	123.0
557433		16.3	263	0.8	13.8	1040	68.1
557434		15.9	248	0.9	11.4	1090	120.5
557435		16.3	245	1.0	11.7	774	134.0
557436		0.2	2	0.2	2.1	5	1.8
557437		14.7	212	1.1	10.7	744	136.0
557438		12.8	189	1.1	12.6	701	157.5
557439		11.8	164	1.0	9.7	388	142.0
557440		11.8	169	1.0	9.9	524	137.0





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Page: 1  
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## CERTIFICAT VO18203590

Projet: Kan

Bon de commande #: KANDH18-073

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18203590**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
557441		4.80	0.023	1.19	7.86	89.5	210	1.57	0.26	1.80	5.34	65.9	25.7	80	5.50	125.5
557442		4.28	0.019	0.75	9.04	60.5	200	1.30	0.24	0.42	3.73	68.8	27.0	98	5.03	126.5
557443		4.19	0.019	0.87	8.51	72.5	220	1.69	0.24	0.98	6.59	67.9	27.1	85	5.69	116.0
557444		4.86	0.013	0.81	7.43	36.6	170	1.31	0.26	1.43	4.79	56.0	18.7	82	4.67	161.5
557445		3.92	0.015	1.28	8.23	63.1	200	1.46	0.20	1.51	4.90	73.2	25.2	91	5.68	113.5
557446		4.64	0.024	2.12	8.18	27.4	190	1.32	0.30	0.85	21.6	82.4	29.9	86	5.31	193.5
557447		4.70	0.004	1.23	6.38	15.6	210	1.83	0.36	2.92	8.11	89.3	24.8	74	4.50	146.5
557448		2.47	<0.001	0.09	0.04	0.4	<10	0.14	0.03	2.32	0.11	8.44	1.6	29	<0.05	7.9
557449		0.07	2.55	0.47	7.14	12.9	330	1.18	0.17	4.98	0.11	49.7	54.7	321	0.74	83.8
557450		2.35	<0.001	0.06	0.08	0.7	<10	0.11	0.02	4.48	0.12	12.65	3.1	36	0.07	5.1
557451		2.11	<0.001	0.03	0.08	0.6	<10	0.06	0.01	3.82	0.13	5.68	1.2	35	0.06	4.0
557452		2.19	<0.001	0.02	0.16	17.5	<10	0.12	0.02	2.76	0.20	6.10	1.4	39	0.12	1.8
557453		2.65	<0.001	0.03	0.38	2.9	<10	0.19	0.03	4.28	0.11	5.75	3.7	28	0.07	2.8
557454		2.30	<0.001	0.02	0.42	1.2	10	0.32	0.02	1.89	0.07	9.66	5.8	31	0.09	2.6
557455		2.36	<0.001	0.01	0.38	6.2	10	0.56	0.02	2.07	0.03	11.15	6.3	23	0.11	4.0
557456		0.33	<0.001	<0.01	0.18	0.3	30	0.14	0.01	33.7	<0.02	1.14	0.6	3	0.07	1.0
557457		2.46	<0.001	0.02	0.68	16.5	30	1.32	0.03	2.81	0.04	14.40	9.3	27	0.22	8.1
557458		2.45	<0.001	0.02	0.64	5.4	20	0.74	0.03	2.28	0.03	13.30	7.8	22	0.06	8.1
557459		2.58	<0.001	0.03	1.00	5.9	20	0.82	0.03	2.32	0.05	15.90	10.8	34	0.07	12.5
557460		2.39	<0.001	0.01	0.74	2.2	<10	0.64	0.02	1.39	0.06	14.15	8.3	24	0.08	8.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 11-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18203590**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557441		12.05	20.5	0.08	3.5	0.424	0.106	3.26	36.3	22.5	1.07	323	17.70	0.63	8.1	132.5
557442		10.50	22.6	0.08	3.8	0.271	0.099	3.12	39.4	21.3	0.52	94	15.05	1.80	10.0	130.0
557443		11.85	22.0	0.12	4.0	0.333	0.120	3.51	38.1	26.6	0.81	193	15.75	0.61	10.1	131.5
557444		10.80	18.50	0.09	3.0	0.240	0.089	2.74	32.5	21.0	0.93	246	13.95	1.00	5.9	134.5
557445		12.40	22.2	0.10	4.3	0.304	0.092	3.28	43.1	22.8	0.97	266	24.4	0.75	12.1	138.5
557446		14.00	21.3	0.11	5.2	0.359	0.130	3.06	45.5	19.3	0.67	137	27.3	1.02	11.8	164.0
557447		11.55	19.75	0.10	6.4	0.115	0.090	2.77	47.6	18.8	1.53	1060	28.9	0.13	25.9	106.0
557448		14.75	0.19	<0.05	<0.1	0.005	0.015	0.01	5.2	1.0	3.37	3140	2.08	<0.01	0.5	5.5
557449		7.66	19.45	0.05	3.5	0.052	0.073	1.01	22.9	8.9	5.69	1080	3.48	2.03	30.2	360
557450		14.95	0.40	<0.05	0.2	0.012	0.016	0.03	7.1	1.4	4.18	3700	1.70	0.01	3.0	12.0
557451		11.10	0.35	<0.05	0.1	<0.005	0.012	0.03	3.2	0.9	2.90	3360	2.52	0.01	0.4	3.3
557452		8.94	0.90	<0.05	<0.1	<0.005	<0.005	0.06	3.6	1.5	2.28	1940	3.58	0.01	0.3	4.4
557453		17.50	2.05	<0.05	0.1	0.005	0.009	0.03	3.2	9.2	4.19	5600	1.79	0.01	0.6	10.7
557454		16.70	2.18	<0.05	0.3	<0.005	0.012	0.05	5.1	7.3	2.28	9850	2.14	0.02	1.9	6.8
557455		18.90	1.97	<0.05	0.3	<0.005	0.008	0.05	5.5	6.5	2.60	9660	1.60	<0.01	2.8	6.5
557456		0.29	0.46	<0.05	0.2	<0.005	0.005	0.04	1.2	1.4	1.60	141	0.23	0.09	0.2	<0.2
557457		19.55	4.01	<0.05	0.5	<0.005	0.018	0.12	7.5	10.7	2.98	11750	1.42	0.01	3.3	12.0
557458		20.3	3.18	<0.05	0.5	<0.005	0.011	0.03	7.1	11.5	2.96	13200	1.01	<0.01	2.7	10.9
557459		19.15	5.11	<0.05	0.7	<0.005	0.021	0.03	8.6	17.8	2.89	17550	1.66	<0.01	3.4	17.0
557460		20.2	3.71	<0.05	0.6	<0.005	0.016	0.02	7.4	11.2	2.86	16500	1.08	<0.01	5.4	11.2



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 11-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18203590**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557441		230	89.9	98.0	0.019	>10.0	5.04	13.7	6	1.9	88.5	0.49	0.52	5.73	0.247	4.38
557442		240	70.2	93.1	0.019	9.37	4.23	15.7	4	1.9	67.7	0.66	0.39	6.10	0.295	3.80
557443		240	79.5	105.0	0.015	>10.0	4.04	14.5	5	2.1	71.2	0.66	0.40	5.88	0.279	4.40
557444		260	154.5	84.4	0.015	7.94	2.62	13.3	4	1.6	81.7	0.32	0.29	4.77	0.219	3.46
557445		340	211	97.9	0.029	9.95	4.85	15.5	6	2.2	87.9	0.69	0.67	6.52	0.258	4.13
557446		300	643	94.3	0.032	>10.0	4.18	14.1	6	2.1	75.7	1.00	0.82	7.53	0.228	3.59
557447		530	351	90.2	0.031	7.03	1.85	11.7	4	2.5	117.0	1.49	0.38	7.89	0.207	2.83
557448		220	2.5	0.4	<0.002	0.85	0.11	0.2	1	<0.2	39.2	<0.05	0.06	0.09	<0.005	0.03
557449		1940	5.5	33.6	<0.002	0.04	0.37	19.5	1	1.4	500	1.62	0.05	3.11	1.090	0.07
557450		340	2.0	1.4	<0.002	0.46	0.08	0.7	1	<0.2	86.6	0.12	<0.05	0.50	0.032	0.03
557451		110	2.1	1.4	<0.002	0.49	0.05	0.2	1	<0.2	98.8	<0.05	<0.05	0.10	<0.005	0.03
557452		160	13.1	2.6	0.002	0.19	0.06	0.2	1	<0.2	44.8	<0.05	<0.05	0.13	<0.005	0.04
557453		170	6.0	1.3	<0.002	0.27	0.11	0.6	1	<0.2	67.5	<0.05	<0.05	0.23	0.010	0.02
557454		330	1.9	2.1	<0.002	0.18	0.12	1.0	1	<0.2	39.4	0.09	<0.05	0.49	0.025	0.03
557455		280	1.2	3.0	<0.002	0.11	0.05	0.9	1	0.2	30.4	0.17	<0.05	0.62	0.040	0.04
557456		60	0.8	1.1	<0.002	0.01	0.05	0.2	1	<0.2	85.8	<0.05	<0.05	0.08	0.006	<0.02
557457		470	1.9	6.5	<0.002	0.14	0.07	1.9	1	0.3	34.2	0.20	<0.05	0.91	0.072	0.06
557458		450	1.6	1.4	<0.002	0.14	0.05	1.9	1	<0.2	26.4	0.18	<0.05	0.74	0.077	0.02
557459		590	2.0	1.7	<0.002	0.23	0.07	2.9	1	0.2	32.0	0.21	0.06	1.16	0.088	0.02
557460		500	1.3	1.2	<0.002	0.13	0.06	2.2	1	0.2	38.6	0.26	<0.05	0.78	0.109	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 11-SEPT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18203590**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557441		14.3	200	1.0	10.9	989	144.5
557442		12.5	185	1.1	10.6	639	148.5
557443		12.9	191	1.1	12.1	1040	152.5
557444		11.4	157	0.9	9.2	690	120.5
557445		15.6	224	1.1	13.0	568	165.0
557446		17.5	269	1.0	13.9	1650	203
557447		15.2	249	1.2	16.1	644	249
557448		0.4	5	0.1	4.3	31	2.4
557449		0.7	152	3.4	21.9	107	155.0
557450		0.4	11	0.3	5.9	39	9.7
557451		0.3	11	0.1	5.8	29	2.8
557452		0.4	9	0.1	3.6	48	1.9
557453		0.2	22	0.1	4.4	41	5.1
557454		0.3	32	0.1	4.6	23	13.8
557455		0.3	32	0.2	5.3	9	15.9
557456		0.2	1	0.1	2.4	3	4.1
557457		0.5	59	0.4	6.4	13	24.9
557458		0.5	54	0.2	6.0	13	22.9
557459		0.8	86	0.2	6.8	17	32.4
557460		0.4	65	0.2	5.8	16	27.1







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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 10-SEPT-2018  
Compte: MINVIR

## CERTIFICAT VO18203599

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Bon de commande #: KANDH18-078

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 10-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18203599**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557541		4.55	<0.001	0.05	7.22	3.0	10	0.39	0.02	3.90	0.11	9.13	50.1	164	0.25	158.0
557542		4.59	<0.001	0.03	7.24	14.0	10	0.32	0.01	5.09	0.09	7.65	60.2	152	0.17	129.0
557543		4.78	<0.001	0.04	6.69	37.9	10	0.21	0.01	5.70	0.07	6.58	62.6	105	0.12	138.0
557544		4.72	<0.001	0.04	6.26	32.6	<10	0.23	0.01	5.61	0.05	9.72	68.2	95	0.11	124.5
557545		4.90	<0.001	0.07	5.78	33.6	<10	0.26	0.01	5.78	0.19	6.89	83.6	112	0.15	203
557546		5.29	<0.001	0.07	5.93	8.3	<10	0.27	0.01	6.12	0.08	6.90	67.6	111	0.10	180.5
557547		4.99	<0.001	0.05	5.66	3.8	<10	0.24	0.01	5.80	0.06	5.72	68.3	113	0.12	120.5
557548		5.00	<0.001	0.05	7.11	4.4	<10	0.27	0.01	5.64	0.08	7.33	51.5	133	0.10	149.0
557549		0.07	0.666	0.22	7.26	21.3	340	1.32	0.13	4.54	0.19	44.1	41.6	195	1.84	56.9
557550		5.00	<0.001	0.03	7.45	2.9	<10	0.25	0.01	6.36	0.13	8.33	50.3	132	0.10	110.5
557551		4.94	<0.001	0.09	6.86	4.0	<10	0.26	0.01	6.95	0.23	8.10	47.9	123	0.11	179.5
557552		4.85	0.001	0.10	6.58	2.7	<10	0.27	0.01	6.90	0.70	7.82	44.3	124	0.08	167.5
557553		4.51	<0.001	0.06	6.58	20.0	50	0.30	0.01	6.54	0.32	8.67	45.3	128	0.11	172.5
557554		4.31	0.004	0.42	5.90	34.7	260	0.46	0.03	4.61	0.72	12.85	40.8	120	0.77	166.5
557555		3.65	0.025	0.86	4.74	41.3	220	0.69	0.31	2.16	8.51	28.5	35.5	88	2.00	242
557556		0.32	<0.001	0.01	0.10	<0.2	20	0.10	0.01	33.0	0.02	0.93	0.7	2	<0.05	2.4
557557		4.32	<0.001	0.31	7.13	12.4	260	0.44	0.07	6.45	0.72	11.70	40.4	149	1.66	150.5
557558		5.11	<0.001	0.31	5.31	23.7	100	0.45	0.08	6.01	0.93	9.72	34.4	110	0.64	174.5
557559		3.54	<0.001	0.55	5.90	37.8	90	0.78	0.08	5.63	0.25	16.65	25.3	119	0.86	170.5
557560		4.14	0.016	1.15	6.86	43.6	240	1.39	0.21	0.50	2.55	50.3	37.4	99	2.62	211



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 10-SEPT-2018  
 Compte: MINVIR

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557541		9.18	16.20	0.09	0.8	0.006	0.071	0.01	3.2	32.2	5.89	1220	0.30	1.61	3.1	109.5
557542		8.44	13.85	0.08	0.6	0.010	0.060	0.01	2.6	30.3	6.22	1340	0.16	2.21	2.5	224
557543		8.26	13.85	0.07	0.4	0.006	0.045	0.02	2.4	38.9	7.10	1320	0.31	1.75	2.5	393
557544		9.00	15.20	0.08	0.6	0.005	0.057	0.01	3.6	40.1	7.66	1400	0.31	1.05	3.5	432
557545		9.88	14.55	0.08	0.5	0.011	0.053	0.01	2.6	40.6	8.70	1620	0.12	0.67	2.5	484
557546		9.49	15.00	0.07	0.5	0.007	0.050	0.01	2.5	30.1	7.30	1580	0.20	0.88	2.7	367
557547		9.37	13.95	0.06	0.5	0.006	0.049	0.01	2.1	33.2	7.44	1600	0.13	0.76	2.1	387
557548		9.52	16.65	0.06	0.7	0.008	0.066	0.01	2.6	29.1	4.94	1380	0.21	0.35	2.7	157.0
557549		7.42	20.2	0.10	3.5	0.019	0.062	0.89	19.8	14.1	2.94	958	2.46	1.74	20.2	146.0
557550		9.71	18.10	0.05	0.8	0.010	0.090	0.02	3.1	26.5	4.96	1540	0.18	0.96	3.2	141.0
557551		9.11	16.80	0.06	0.6	<0.005	0.072	0.01	3.0	35.1	4.44	1440	0.70	0.44	3.0	132.5
557552		8.86	15.80	0.06	0.6	0.008	0.071	0.01	2.9	51.8	4.09	1340	0.25	0.89	2.8	117.0
557553		8.98	16.85	0.06	0.9	0.015	0.067	0.05	3.3	76.3	4.02	1320	0.36	0.97	1.7	109.0
557554		13.55	15.50	0.08	1.0	0.033	0.088	0.81	6.1	68.4	4.06	1420	2.63	0.41	0.9	126.5
557555		18.15	13.85	0.11	1.7	0.268	0.144	1.72	15.3	18.3	1.68	1060	16.55	0.21	2.8	128.5
557556		0.16	0.30	<0.05	0.2	<0.005	<0.005	0.01	1.1	1.1	1.37	95	0.06	0.04	0.2	0.7
557557		7.79	18.30	0.07	1.8	0.017	0.070	1.62	4.8	59.9	3.41	1260	0.99	0.89	1.3	102.5
557558		9.45	13.25	0.06	1.1	0.081	0.069	0.59	4.2	55.3	2.57	1350	3.27	1.09	0.8	99.4
557559		10.60	14.90	0.07	1.4	0.024	0.051	0.92	8.0	60.2	3.15	1660	4.62	1.05	1.6	114.5
557560		16.65	21.4	0.14	4.7	0.290	0.127	2.69	23.8	30.7	0.88	264	18.75	0.24	11.6	171.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 10-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18203599**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557541		370	2.9	0.6	0.002	0.22	0.43	44.6	1	0.5	117.5	0.18	<0.05	0.25	0.664	0.05
557542		300	1.3	0.3	0.003	0.11	0.58	36.4	1	0.5	95.1	0.16	<0.05	0.18	0.537	0.02
557543		290	1.0	0.3	<0.002	0.07	1.04	25.8	<1	0.5	90.0	0.15	<0.05	0.19	0.403	0.02
557544		420	1.2	0.2	<0.002	0.08	1.49	19.8	<1	0.7	116.5	0.22	<0.05	0.25	0.486	<0.02
557545		280	1.2	0.2	<0.002	0.07	1.34	27.3	1	0.8	96.8	0.16	<0.05	0.20	0.440	<0.02
557546		290	1.7	0.1	<0.002	0.09	1.37	21.5	<1	0.4	141.0	0.17	<0.05	0.16	0.497	0.02
557547		270	1.5	0.1	<0.002	0.08	1.23	21.9	<1	0.3	109.5	0.13	0.05	0.15	0.458	<0.02
557548		340	2.7	0.1	0.002	0.33	1.75	40.9	<1	0.8	205	0.18	0.05	0.19	0.625	<0.02
557549		1160	15.1	31.0	<0.002	0.02	1.22	20.0	<1	1.7	359	1.21	<0.05	4.32	0.919	0.19
557550		390	4.2	0.2	0.002	0.21	1.89	44.6	<1	0.7	199.5	0.19	0.05	0.20	0.677	<0.02
557551		330	4.0	0.2	0.005	0.15	2.36	41.0	<1	0.8	201	0.19	<0.05	0.19	0.619	<0.02
557552		330	2.1	0.1	<0.002	0.11	1.24	39.5	<1	0.9	93.4	0.18	0.05	0.18	0.596	<0.02
557553		360	1.9	1.8	0.002	0.29	0.63	42.2	1	0.5	90.9	0.11	0.05	0.20	0.344	0.08
557554		300	6.4	20.8	0.003	4.55	1.56	32.4	3	0.9	62.3	0.06	0.37	0.72	0.104	1.36
557555		550	27.4	54.7	0.016	>10.0	7.00	17.4	6	2.4	41.9	0.17	1.23	2.96	0.101	2.98
557556		60	0.7	0.3	<0.002	0.02	0.19	0.3	1	<0.2	78.1	0.05	<0.05	0.05	0.006	<0.02
557557		440	11.1	47.8	0.002	2.40	2.85	43.7	1	1.1	127.0	0.08	0.19	0.34	0.253	2.26
557558		320	11.4	16.7	0.005	3.17	1.51	31.6	2	1.1	117.0	0.06	0.23	0.58	0.112	0.74
557559		420	11.8	26.7	0.005	3.63	2.29	33.8	2	1.0	139.5	0.09	0.21	1.11	0.142	1.13
557560		410	29.3	55.1	0.024	>10.0	4.49	15.9	4	2.2	34.5	0.68	0.69	4.28	0.243	4.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 10-SEPT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18203599**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
557541		0.1	337	0.2	17.2	89	36.3
557542		0.1	276	0.2	18.1	81	19.1
557543		0.1	194	0.2	14.9	84	12.1
557544		0.1	221	0.2	20.6	94	18.2
557545		<0.1	225	0.2	17.3	108	16.3
557546		0.1	261	0.3	17.5	100	12.6
557547		<0.1	258	0.2	15.0	113	12.0
557548		0.1	332	0.3	19.2	141	23.3
557549		1.1	150	2.1	18.6	132	135.0
557550		0.1	355	0.2	21.3	121	47.7
557551		0.1	324	0.2	20.4	134	18.4
557552		0.1	312	0.2	18.8	156	15.2
557553		0.1	314	0.1	19.6	175	25.5
557554		1.1	249	0.2	8.2	302	36.8
557555		8.9	249	0.6	10.1	1850	63.6
557556		0.2	2	<0.1	2.1	5	3.3
557557		0.3	335	0.3	5.4	203	61.6
557558		1.1	242	0.7	3.7	280	39.9
557559		1.6	268	1.7	6.3	124	46.8
557560		16.0	229	1.5	11.3	663	184.5



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **10-SEPT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18203599**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada

Applique à la Méthode:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applique à la Méthode:	Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 12-SEPT-2018  
Compte: MINVIR

## CERTIFICAT VO18203602

Projet: Kan

Bon de commande #: KANDH18-077

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Zn-OG62	Teneur marchande Zn - quatre acides	

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 12-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18203602**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557521		4.70	<0.001	0.07	5.03	109.0	<10	0.21	0.01	5.46	0.19	6.76	82.2	96	0.15	188.0
557522		4.70	<0.001	0.03	5.12	76.9	<10	0.19	0.01	5.16	0.09	5.50	70.1	93	0.20	56.4
557523		4.55	<0.001	0.07	5.05	107.0	<10	0.16	0.01	4.93	0.15	6.10	93.3	100	0.19	188.5
557524		4.57	0.003	0.07	4.95	77.5	<10	0.15	0.01	4.47	0.28	5.21	80.4	92	0.20	183.0
557525		4.60	<0.001	0.25	4.63	83.5	<10	0.20	0.01	5.56	0.59	5.68	74.5	81	0.16	161.0
557526		4.44	0.004	0.21	5.50	98.5	<10	0.19	0.01	4.63	0.33	6.57	87.2	92	0.18	174.0
557527		4.48	0.001	0.06	5.70	60.5	<10	0.19	0.01	4.87	0.11	6.48	62.2	100	0.16	149.0
557528		4.62	0.001	0.05	5.66	83.0	<10	0.17	0.01	5.27	0.12	6.15	62.0	97	0.16	139.5
557529		0.07	7.44	1.25	6.06	32.7	310	0.82	0.48	2.89	0.08	31.3	39.6	295	0.65	107.5
557530		4.43	0.002	0.06	5.76	81.9	<10	0.22	0.01	5.10	0.11	6.32	53.3	110	0.14	121.0
557531		4.46	<0.001	0.16	5.79	96.8	<10	0.15	0.01	5.23	0.14	6.00	49.6	104	0.11	109.5
557532		4.15	<0.001	0.39	5.83	27.8	360	0.41	0.02	5.11	0.53	6.91	49.1	105	0.51	106.0
557533		2.82	0.012	0.91	4.04	44.3	50	0.63	0.26	1.30	3.30	44.0	34.3	92	1.56	287
557534		4.62	0.064	3.04	5.20	126.0	60	1.07	0.49	0.22	122.0	38.8	37.5	85	2.57	194.5
557535		4.87	0.051	1.02	4.77	117.0	50	1.06	0.39	0.21	5.85	29.6	36.4	84	2.34	224
557536		0.33	<0.001	0.01	0.08	0.8	10	0.05	0.01	31.6	0.14	1.10	0.7	5	<0.05	2.2
557537		4.75	0.041	1.13	5.04	77.2	40	0.95	0.43	0.19	18.10	34.4	34.8	80	2.25	272
557538		2.22	0.009	0.87	4.95	29.7	40	0.79	0.20	0.98	1.64	42.3	42.8	113	1.97	371
557539		4.04	<0.001	0.08	6.84	31.6	200	0.35	0.01	4.09	0.23	9.02	50.4	138	0.48	123.5
557540		4.70	<0.001	0.06	7.04	5.4	10	0.30	0.01	2.91	0.15	10.25	44.9	128	0.15	153.0



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 12-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18203602**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557521		8.44	11.95	<0.05	0.6	0.005	0.056	0.01	2.4	31.3	7.25	1500	0.26	0.12	0.9	384
557522		8.82	11.30	<0.05	0.7	<0.005	0.043	<0.01	2.0	21.1	8.20	1400	0.22	0.01	0.7	435
557523		9.13	11.00	<0.05	0.6	0.005	0.052	<0.01	2.2	11.0	8.68	1380	0.20	0.01	1.5	501
557524		9.01	11.05	<0.05	0.6	0.005	0.046	<0.01	1.8	10.0	8.57	1330	0.14	0.01	1.5	488
557525		8.64	10.25	<0.05	0.6	0.008	0.045	<0.01	2.0	10.8	8.10	1620	0.51	0.01	1.1	430
557526		9.45	12.40	<0.05	0.6	<0.005	0.051	<0.01	2.3	22.7	8.31	1570	0.28	0.04	0.9	432
557527		8.59	12.65	<0.05	0.6	0.008	0.053	<0.01	2.3	27.7	6.55	1340	0.46	0.77	0.7	321
557528		8.68	12.80	<0.05	0.7	0.007	0.051	0.01	2.2	29.2	6.76	1420	0.23	1.05	0.7	305
557529		5.42	15.10	<0.05	2.4	0.157	0.047	1.03	14.8	14.7	3.89	718	6.34	1.16	15.7	242
557530		8.87	13.45	<0.05	0.8	0.006	0.049	0.01	2.2	33.6	6.69	1460	0.25	1.09	0.7	315
557531		8.55	12.10	0.05	0.6	<0.005	0.050	0.01	2.1	34.5	6.32	1420	0.19	0.97	0.6	259
557532		8.75	12.60	<0.05	0.8	0.007	0.050	0.68	2.7	46.4	6.01	1550	0.61	0.83	0.6	242
557533		20.7	12.35	0.20	1.9	0.133	0.153	1.14	23.7	18.0	1.87	991	18.60	0.36	5.0	135.0
557534		19.05	15.55	0.12	2.3	0.395	0.381	1.99	20.5	22.8	1.10	261	24.7	0.14	7.1	148.5
557535		21.0	15.25	0.11	2.3	0.353	0.160	1.87	13.5	21.8	1.07	263	22.3	0.18	7.6	129.5
557536		0.23	0.28	<0.05	<0.1	<0.005	<0.005	0.02	1.2	1.1	1.23	80	0.38	0.02	0.2	1.2
557537		22.4	15.05	0.10	2.6	0.262	0.199	1.86	17.8	20.6	1.01	202	21.7	0.26	6.9	151.5
557538		20.7	14.75	0.11	2.1	0.044	0.080	1.67	21.8	21.4	1.98	605	23.1	0.13	5.2	143.5
557539		9.49	16.55	<0.05	1.0	0.006	0.079	0.51	3.3	39.1	4.01	1170	0.37	1.58	1.1	80.7
557540		9.59	16.65	0.05	1.2	0.008	0.074	0.01	3.8	38.2	5.76	987	0.41	1.29	2.2	86.3



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18203602**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557521		250	1.1	0.2	0.002	0.05	0.34	25.9	1	0.2	61.2	0.06	0.08	0.18	0.181	<0.02
557522		240	1.2	0.1	<0.002	0.05	0.25	23.5	<1	0.2	70.9	0.05	0.07	0.15	0.137	<0.02
557523		220	1.5	0.1	0.002	0.12	0.28	24.2	1	0.4	75.1	0.09	0.08	0.16	0.360	0.02
557524		210	1.4	0.1	<0.002	0.12	0.32	23.8	1	0.4	67.2	0.10	<0.05	0.13	0.363	0.02
557525		230	1.8	0.1	<0.002	0.10	0.24	22.1	1	0.3	87.0	0.07	<0.05	0.13	0.305	0.02
557526		260	1.6	0.3	<0.002	0.09	0.30	26.4	<1	0.3	70.8	0.06	<0.05	0.18	0.215	0.02
557527		270	1.8	0.1	<0.002	0.14	0.37	27.7	1	0.2	82.8	0.05	<0.05	0.17	0.154	0.02
557528		250	1.6	0.1	0.002	0.07	0.21	27.5	<1	0.2	90.9	0.05	<0.05	0.16	0.151	<0.02
557529		1070	9.6	37.7	<0.002	0.08	0.80	17.7	1	1.0	276	0.89	0.24	2.57	0.651	0.20
557530		240	1.7	0.1	0.002	0.09	0.22	25.7	<1	0.2	86.6	0.05	<0.05	0.16	0.160	0.03
557531		290	1.3	0.2	0.002	0.13	0.27	29.4	1	0.2	64.2	<0.05	0.05	0.15	0.144	0.02
557532		240	2.1	18.5	0.002	1.77	0.31	31.4	1	0.5	86.6	<0.05	0.15	0.18	0.136	0.87
557533		560	19.8	42.6	0.015	>10.0	4.19	8.8	10	3.6	40.0	0.37	1.01	3.92	0.109	2.10
557534		310	136.5	75.4	0.026	>10.0	17.85	10.6	6	3.5	16.6	0.46	1.98	5.27	0.147	4.40
557535		320	70.8	57.5	0.023	>10.0	13.80	9.9	7	3.3	18.4	0.47	1.46	3.89	0.145	4.17
557536		60	0.8	0.6	<0.002	0.09	0.20	0.2	1	<0.2	78.2	<0.05	<0.05	0.10	0.005	0.03
557537		260	59.9	65.5	0.018	>10.0	11.35	9.3	7	3.1	17.8	0.47	1.73	4.96	0.117	3.76
557538		310	21.6	56.6	0.015	>10.0	3.48	12.4	10	2.5	37.1	0.30	0.96	4.18	0.139	2.66
557539		390	2.1	15.8	<0.002	0.82	0.44	44.7	1	0.5	74.0	0.08	0.13	0.25	0.232	0.77
557540		430	1.5	0.3	<0.002	0.22	0.42	45.3	1	0.5	82.0	0.15	0.05	0.28	0.522	0.03



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18203602**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Zn % 0.001
557521		0.1	214	0.1	3.4	84	26.9	
557522		<0.1	196	0.2	3.1	86	23.8	
557523		<0.1	201	0.1	3.2	88	18.4	
557524		<0.1	200	0.1	3.2	107	18.7	
557525		0.1	192	0.2	3.7	173	21.1	
557526		0.1	223	0.1	4.7	137	22.5	
557527		<0.1	225	0.1	4.2	83	24.2	
557528		<0.1	231	0.1	3.6	90	25.9	
557529		0.6	141	9.1	14.0	80	99.4	
557530		0.1	238	0.1	3.7	90	23.7	
557531		0.1	249	0.5	4.7	103	25.1	
557532		0.3	231	0.6	5.7	177	26.9	
557533		6.1	125	1.0	8.8	890	70.0	
557534		11.8	226	1.2	11.9	>10000	88.4	1.820
557535		10.4	190	1.0	9.9	1210	91.2	
557536		0.2	2	<0.1	2.1	24	1.8	
557537		10.6	200	0.9	10.6	3370	101.5	
557538		6.6	153	0.8	8.2	412	82.4	
557539		0.1	344	0.1	6.3	160	37.7	
557540		0.1	368	0.2	6.8	114	48.0	



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **12-SEPT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18203602**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61	ME-OG62
Zn-OG62			



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 11-SEPT-2018  
Compte: MINVIR

## CERTIFICAT VO18203604

Projet: Kan

Bon de commande #: KANDH18-079

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 11-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18203604**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557561		4.69	0.004	0.48	9.56	28.0	320	1.82	0.07	0.69	2.85	69.7	12.2	114	3.68	140.0
557562		4.84	0.011	1.05	8.80	15.3	290	2.29	0.13	0.67	3.92	57.3	16.9	119	4.24	205
557563		4.94	0.032	1.84	5.56	45.1	60	1.28	0.30	1.46	9.23	57.8	30.1	76	2.52	277
557564		4.60	0.007	0.75	8.32	27.6	230	1.56	0.12	0.61	3.34	73.5	17.0	108	3.72	135.0
557565		4.87	0.005	0.63	8.13	44.2	140	1.46	0.19	1.21	3.30	84.3	27.0	94	3.80	148.5
557566		4.99	0.004	0.45	7.58	27.7	180	1.48	0.08	0.72	2.24	57.8	17.5	96	3.47	151.0
557567		5.07	0.037	1.28	8.10	61.7	90	1.80	0.20	1.09	6.31	81.9	19.9	101	4.16	164.5
557568		4.65	0.021	1.07	7.99	60.2	120	1.80	0.15	1.16	5.62	63.0	19.3	101	4.10	149.0
557569		0.07	2.54	0.46	6.86	11.1	320	1.22	0.18	4.80	0.09	44.1	52.5	321	0.68	81.6
557570		4.30	0.007	0.76	10.20	44.5	300	2.35	0.14	0.74	3.30	76.6	21.0	122	4.83	92.7
557571		4.19	<0.001	0.64	9.00	29.6	290	2.52	0.06	0.89	3.09	80.8	16.7	117	4.28	100.5
557572		4.70	0.024	2.35	6.37	41.4	70	1.82	0.30	1.08	8.79	56.6	20.8	90	3.62	244
557573		4.69	0.012	1.06	8.69	55.4	240	2.17	0.29	0.91	4.13	64.0	25.5	104	4.02	111.0
557574		4.47	0.017	0.57	8.83	26.5	280	2.56	0.07	1.06	3.34	76.5	13.9	107	4.10	187.0
557575		4.51	0.013	1.70	7.34	18.2	170	2.56	0.37	0.60	11.55	61.5	15.3	97	3.92	174.5
557576		0.34	<0.001	0.01	0.18	<0.2	20	0.09	0.01	34.4	0.04	1.16	0.8	2	0.05	1.9
557577		4.06	0.023	3.42	3.73	13.2	110	1.24	0.78	0.74	22.6	44.1	18.0	70	2.54	237
557578		4.48	0.008	1.09	8.53	39.5	210	2.28	0.35	0.95	5.03	64.6	29.4	90	4.43	107.0
557579		4.50	0.011	1.23	9.31	47.1	240	2.02	0.30	0.38	3.65	62.4	25.5	107	4.43	88.8
557580		4.79	0.038	1.94	6.82	112.5	60	1.61	0.29	1.73	7.23	52.5	19.1	73	3.61	108.5



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18203604**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557561		10.70	25.7	0.16	7.2	0.169	0.145	3.80	33.4	49.9	1.52	451	7.32	0.28	21.9	123.0
557562		13.75	23.2	0.15	4.8	0.207	0.118	3.70	28.8	29.5	0.96	624	24.1	0.22	17.4	163.0
557563		19.75	14.35	0.15	3.5	0.547	0.157	1.87	32.6	27.4	1.17	1320	59.2	0.21	8.9	236
557564		11.15	21.2	0.14	5.2	0.250	0.112	3.08	40.0	35.8	1.02	446	16.75	0.30	17.2	127.0
557565		11.05	21.6	0.14	8.7	0.285	0.095	3.12	44.3	21.8	1.00	470	13.40	0.35	43.8	119.5
557566		9.94	19.20	0.11	4.4	0.174	0.084	2.92	32.1	25.4	0.83	329	8.97	0.25	16.4	127.5
557567		12.95	22.3	0.16	7.7	0.478	0.114	3.03	43.7	30.0	1.10	581	35.3	0.33	34.7	172.5
557568		11.90	20.5	0.14	3.8	0.445	0.101	3.04	36.0	26.9	1.01	550	31.2	0.37	11.3	158.0
557569		7.45	17.70	0.10	3.4	0.059	0.058	1.00	21.9	9.1	5.51	1020	3.16	1.99	29.9	347
557570		9.70	25.9	0.14	6.9	0.329	0.090	4.21	40.2	35.5	1.07	399	15.20	0.31	29.0	109.0
557571		8.68	22.4	0.16	5.0	0.191	0.082	3.58	44.4	34.6	1.12	566	11.80	0.24	16.2	98.0
557572		14.95	15.70	0.14	3.2	0.585	0.088	2.47	33.9	20.0	0.89	627	79.4	0.20	7.9	238
557573		11.20	22.2	0.13	4.5	0.378	0.094	3.39	35.7	30.1	1.02	391	22.7	0.29	16.4	133.5
557574		9.97	22.4	0.15	6.2	0.168	0.091	3.62	41.7	24.5	0.98	479	10.20	0.26	21.2	156.5
557575		10.40	19.05	0.12	4.3	0.474	0.091	2.94	35.1	21.2	0.73	369	51.6	0.23	13.0	175.5
557576		0.18	0.46	0.11	0.1	<0.005	<0.005	0.04	1.2	1.1	1.35	94	0.24	0.06	0.3	1.9
557577		14.30	8.74	0.11	1.5	0.734	0.093	1.16	28.8	11.3	0.68	339	136.0	0.15	4.4	259
557578		9.99	20.9	0.12	3.4	0.352	0.078	3.76	37.1	21.1	0.94	376	13.90	0.34	9.4	131.5
557579		8.97	22.1	0.13	3.9	0.389	0.086	3.95	35.6	17.2	0.60	155	10.95	0.61	10.9	114.0
557580		13.60	16.75	0.13	2.5	0.909	0.076	2.99	30.5	16.8	1.14	486	21.5	0.20	8.2	147.5





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18203604**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557561		690	16.2	83.0	0.009	5.98	1.47	26.9	3	3.0	45.2	1.32	0.26	3.98	0.601	4.81
557562		560	23.3	89.9	0.022	7.39	2.55	18.4	8	2.7	42.5	1.04	0.27	5.35	0.371	5.14
557563		1120	48.5	59.2	0.056	>10.0	6.17	12.1	13	1.8	50.8	0.60	0.63	4.55	0.170	3.09
557564		590	21.2	85.1	0.012	6.62	2.05	20.3	6	2.5	54.6	0.98	0.24	5.53	0.414	4.26
557565		450	23.9	85.1	0.016	8.19	3.14	15.4	5	3.1	67.5	2.75	0.26	8.81	0.352	4.16
557566		400	11.6	77.8	0.007	6.18	1.39	16.4	5	2.3	54.7	0.92	0.15	4.79	0.324	3.90
557567		530	31.0	86.8	0.025	9.30	4.95	16.2	9	2.9	63.2	2.10	0.39	7.85	0.321	4.56
557568		480	27.4	86.5	0.027	8.66	3.91	17.0	8	2.1	66.2	0.65	0.34	5.47	0.287	4.66
557569		1870	5.1	30.8	<0.002	0.05	0.42	20.7	1	1.3	480	1.66	0.08	2.79	1.055	0.08
557570		490	21.2	105.5	0.016	6.44	3.70	20.5	5	3.0	64.0	1.63	0.26	7.18	0.473	5.75
557571		360	12.9	97.4	0.009	4.86	2.00	18.9	6	2.3	57.3	0.98	0.13	6.46	0.394	5.20
557572		700	55.9	77.8	0.055	9.96	7.03	13.7	13	1.8	58.9	0.47	0.34	4.84	0.195	4.20
557573		450	28.2	89.8	0.023	8.13	4.81	18.2	5	2.2	56.4	0.97	0.52	5.78	0.375	4.94
557574		360	9.5	97.3	0.010	5.99	1.04	17.9	5	2.6	63.3	1.30	0.15	7.09	0.334	5.09
557575		600	24.9	89.0	0.043	6.02	4.66	16.4	9	2.3	52.9	0.81	0.33	5.44	0.277	4.91
557576		60	0.5	1.0	<0.002	0.03	0.13	0.4	1	<0.2	84.8	<0.05	<0.05	0.12	0.013	0.06
557577		1010	49.7	46.1	0.099	8.34	7.74	7.2	13	1.4	52.4	0.30	0.57	4.32	0.095	2.70
557578		250	26.1	102.5	0.014	6.78	3.91	16.1	5	2.1	48.6	0.53	0.54	5.10	0.300	5.97
557579		230	35.8	110.0	0.010	7.00	5.70	15.0	4	2.0	51.9	0.67	0.47	5.30	0.312	6.33
557580		290	62.9	83.1	0.029	>10.0	9.05	11.2	7	1.5	50.8	0.51	0.71	4.59	0.181	5.66



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 11-SEPT-2018  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18203604**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557561		12.4	173	2.2	16.7	633	277
557562		17.3	312	2.7	12.9	731	184.5
557563		28.1	547	2.0	18.8	1680	136.0
557564		13.3	262	2.2	14.8	720	197.0
557565		11.9	186	1.6	20.1	708	331
557566		9.3	138	1.5	11.1	465	169.5
557567		19.9	370	2.2	20.8	1110	284
557568		17.3	307	2.0	13.6	970	142.5
557569		0.7	148	3.3	21.1	105	141.0
557570		12.9	218	2.4	15.4	638	262
557571		11.0	228	2.5	13.2	564	189.5
557572		39.6	678	2.9	19.2	1440	125.5
557573		16.7	268	2.1	13.7	750	172.0
557574		10.6	147	1.8	14.6	540	235
557575		29.1	498	3.1	17.6	1500	160.0
557576		0.3	5	0.1	2.3	9	4.1
557577		72.2	1280	4.1	20.0	2350	62.3
557578		13.1	204	2.1	10.7	585	132.0
557579		11.2	175	1.9	11.8	523	145.5
557580		15.2	264	1.5	10.1	1230	94.8



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **11-SEPT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18203604**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada

Applique à la Méthode:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applique à la Méthode:	Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 11-SEPT-2018  
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## CERTIFICAT VO18203680

Projet: Kan

Bon de commande #: KANDH18-074

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 11-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18203680**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557461		3.05	0.009	0.39	3.10	1.7	110	1.15	0.22	0.77	0.23	22.8	33.2	85	1.48	65.1
557462		4.17	0.001	0.17	7.93	1.7	500	2.78	0.16	0.25	0.30	57.5	17.8	96	4.95	28.4
557463		4.49	0.002	0.47	8.13	1.2	490	2.68	0.44	0.26	0.71	60.0	21.5	99	5.86	39.0
557464		4.64	0.001	0.17	8.11	0.5	470	3.38	0.18	0.18	0.13	61.4	17.5	103	6.02	32.4
557465		4.06	0.004	0.25	7.95	0.4	420	2.76	0.38	0.22	0.45	61.3	20.3	99	5.88	47.9
557466		4.52	0.001	0.13	8.77	1.0	420	2.39	0.15	0.20	0.29	64.5	18.8	105	5.64	37.3
557467		4.75	<0.001	0.27	7.12	3.9	360	2.03	0.31	0.35	1.24	55.9	18.3	84	4.41	25.1
557468		4.72	0.001	0.10	6.76	0.3	380	2.17	0.09	0.39	0.26	51.4	15.5	80	3.95	19.5
557469		0.07	7.58	1.26	6.16	32.4	310	0.98	0.50	2.97	0.08	29.0	40.4	327	0.62	112.0
557470		4.76	0.001	0.10	6.16	0.5	350	1.98	0.10	0.48	0.29	48.6	14.4	72	3.66	17.5
557471		4.83	<0.001	0.08	7.04	1.7	390	2.12	0.08	0.35	0.23	52.8	16.1	84	3.90	18.1
557472		4.46	<0.001	0.11	8.66	0.8	470	2.68	0.10	0.20	0.23	61.1	23.0	107	5.02	41.6
557473		4.68	0.001	0.96	7.75	0.6	420	2.51	0.65	0.13	0.80	58.8	19.6	101	5.30	48.3
557474		4.58	<0.001	0.10	7.61	0.5	380	2.11	0.12	0.19	0.24	56.5	15.9	91	3.92	23.3
557475		4.64	<0.001	0.09	8.63	1.5	460	2.22	0.09	0.14	0.39	59.0	17.3	105	4.88	32.3
557476		0.35	<0.001	<0.01	0.11	<0.2	20	0.06	0.01	35.5	0.02	1.18	0.8	1	<0.05	1.8
557477		4.51	<0.001	0.14	8.57	4.1	460	2.09	0.14	0.22	0.51	59.8	17.4	102	5.09	34.2
557478		4.83	<0.001	0.10	6.82	0.6	390	1.75	0.14	0.48	0.24	50.7	15.1	80	3.72	19.2
557479		4.46	0.002	0.13	8.52	0.2	490	2.12	0.18	0.25	0.18	57.1	16.3	98	5.27	23.5
557480		4.48	0.001	0.17	9.85	0.9	570	2.67	0.22	0.22	0.12	65.3	19.8	109	7.75	34.4



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 11-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18203680**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557461		20.8	10.95	0.07	1.2	<0.005	0.026	0.91	11.6	20.1	2.44	14750	9.89	0.02	8.9	68.0
557462		9.54	19.70	0.11	1.9	0.007	0.046	3.91	29.6	35.5	1.52	5270	1.15	0.07	7.4	41.6
557463		8.24	20.7	0.10	2.1	<0.005	0.048	4.44	30.1	30.8	1.16	7540	1.36	0.07	7.8	47.2
557464		9.48	19.75	0.10	2.0	<0.005	0.047	3.85	30.8	44.6	1.63	2000	1.80	0.06	9.4	42.7
557465		9.53	20.9	0.12	2.1	<0.005	0.050	4.35	31.3	39.3	1.46	6130	3.18	0.25	9.4	47.7
557466		7.67	21.9	0.11	2.3	<0.005	0.050	4.68	31.8	35.1	1.10	9980	0.98	0.35	8.4	44.8
557467		10.80	18.35	0.15	2.1	<0.005	0.045	3.51	28.6	29.5	1.36	11850	0.84	0.65	7.6	35.7
557468		10.95	16.75	0.13	2.0	<0.005	0.036	3.35	26.2	27.8	1.39	12050	1.28	0.64	6.8	31.5
557469		5.57	13.95	0.10	2.3	0.165	0.046	1.08	14.2	15.8	4.02	751	5.93	1.21	15.4	249
557470		11.20	15.95	0.14	1.8	<0.005	0.034	3.09	25.4	27.2	1.40	12200	1.19	0.52	6.3	29.2
557471		10.80	17.40	0.15	2.0	<0.005	0.038	3.46	26.8	31.1	1.38	11350	1.18	0.68	6.9	33.5
557472		8.77	21.4	0.16	2.2	<0.005	0.049	4.71	30.8	46.1	1.22	4980	1.00	0.34	8.4	59.0
557473		9.26	19.75	0.16	2.1	0.014	0.041	4.27	30.0	48.8	1.46	3060	5.00	0.14	8.4	43.9
557474		9.37	18.60	0.16	2.2	<0.005	0.048	3.79	27.9	35.9	1.26	7960	0.75	0.83	7.6	37.1
557475		7.13	20.4	0.16	2.3	<0.005	0.049	4.59	29.6	44.6	1.06	4290	0.87	0.45	7.9	43.2
557476		0.14	0.35	0.16	0.1	<0.005	<0.005	0.03	1.2	1.3	1.40	111	<0.05	0.03	0.2	1.0
557477		7.82	19.85	0.13	2.4	<0.005	0.049	4.63	29.4	40.6	1.17	5150	0.73	0.46	7.9	40.1
557478		12.20	16.70	0.16	1.9	<0.005	0.036	3.45	25.6	31.9	1.53	14000	0.81	0.66	6.6	30.8
557479		7.49	19.85	0.15	2.3	<0.005	0.043	4.61	28.8	46.6	1.21	4830	1.14	0.55	8.3	37.3
557480		6.09	23.4	0.19	2.9	<0.005	0.055	5.39	32.5	67.1	1.14	1700	1.63	0.63	9.3	45.3



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 11-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18203680**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557461		480	11.6	37.8	0.010	2.92	0.58	8.8	3	0.5	66.0	0.53	0.17	2.40	0.254	0.25
557462		390	5.9	148.5	0.003	1.00	0.30	11.8	1	1.4	44.6	0.56	0.09	8.94	0.262	0.84
557463		300	145.5	168.5	0.004	1.33	0.42	12.4	2	1.5	46.6	0.60	0.15	9.12	0.275	0.81
557464		350	7.4	157.5	0.004	0.99	0.30	12.3	1	1.5	44.1	0.67	0.09	8.88	0.305	0.85
557465		390	13.1	171.5	0.003	1.24	0.31	12.8	2	1.4	57.1	0.63	0.09	8.89	0.282	0.65
557466		280	8.7	180.0	0.002	0.69	0.24	13.1	2	1.5	51.0	0.66	<0.05	10.35	0.307	0.65
557467		310	158.0	139.5	<0.002	0.41	0.33	10.3	1	1.3	69.5	0.59	0.07	8.87	0.261	0.49
557468		380	12.6	128.0	0.002	0.40	0.21	9.8	<1	1.2	74.5	0.52	<0.05	7.97	0.246	0.39
557469		1110	9.4	35.7	<0.002	0.08	0.82	18.7	1	1.0	281	0.91	0.24	2.35	0.671	0.19
557470		370	11.8	122.0	0.002	0.33	0.19	9.2	1	1.0	81.4	0.49	0.07	7.54	0.220	0.40
557471		300	9.1	136.5	<0.002	0.33	0.20	10.1	<1	1.2	71.4	0.55	<0.05	8.53	0.254	0.47
557472		270	6.0	173.0	0.002	0.93	0.23	12.5	1	1.5	57.1	0.63	0.05	9.91	0.299	0.67
557473		220	7.4	163.5	0.005	0.94	0.26	11.8	1	1.4	46.5	0.64	0.60	9.16	0.286	0.61
557474		240	10.3	141.0	0.002	0.40	0.20	11.0	1	1.4	61.2	0.60	<0.05	9.08	0.277	0.51
557475		240	10.5	167.0	0.004	0.45	0.22	12.2	1	1.4	49.7	0.62	<0.05	9.87	0.304	0.56
557476		80	<0.5	1.1	<0.002	0.01	0.11	0.2	<1	<0.2	90.4	<0.05	<0.05	0.12	0.006	<0.02
557477		230	25.4	167.5	0.003	0.47	0.23	11.4	2	1.5	53.6	0.63	0.05	10.10	0.305	0.58
557478		390	12.1	128.5	<0.002	0.36	0.18	9.5	1	1.1	87.2	0.50	0.05	7.77	0.246	0.41
557479		240	7.7	172.5	0.002	0.69	0.25	11.5	1	1.4	69.6	0.66	<0.05	9.43	0.311	0.60
557480		180	14.7	213	0.003	0.69	0.27	13.5	1	1.7	76.4	0.72	0.05	11.20	0.345	0.80



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 11-SEPT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18203680**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557461		4.8	217	0.4	6.1	128	50.1
557462		3.3	148	1.6	6.5	142	71.3
557463		3.4	160	1.9	6.6	140	73.7
557464		3.9	171	1.4	7.0	147	72.2
557465		4.2	186	1.6	6.7	128	78.5
557466		2.9	144	1.8	6.1	101	84.4
557467		2.1	93	1.4	5.9	145	78.3
557468		2.0	92	1.3	5.6	90	70.9
557469		0.6	145	8.4	13.6	84	93.3
557470		1.9	95	1.2	5.4	86	65.3
557471		2.0	96	1.3	5.6	94	71.6
557472		3.1	146	1.6	5.5	123	80.0
557473		3.8	160	1.4	5.4	216	73.8
557474		2.0	103	1.3	5.8	95	78.3
557475		2.0	149	1.5	5.3	109	82.0
557476		0.1	2	0.1	2.1	3	2.0
557477		2.1	131	1.5	5.2	152	81.8
557478		1.9	95	1.2	6.1	104	67.1
557479		2.8	123	1.3	6.1	93	84.4
557480		3.4	141	1.4	6.4	112	105.5







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Page: 1  
Nombre total de pages: 2 (A - D)  
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## CERTIFICAT VO18203682

Projet: Kan

Bon de commande #: KANDH18-075

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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À: **MINIÈRE OSISKO INC.**  
**300, RUE ST-PAUL**  
**BUREAU 200**  
**QUEBEC QC G1K 7R1**

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Projet: Kan

**CERTIFICAT D'ANALYSE VO18203682**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557481		4.57	<0.001	0.08	6.61	0.9	380	1.76	0.07	0.34	0.17	46.3	14.3	79	4.96	18.4
557482		4.58	<0.001	0.10	7.85	3.0	430	2.08	0.12	0.23	0.16	58.7	17.7	94	13.30	22.6
557483		4.60	<0.001	0.19	6.62	3.1	370	1.85	0.23	0.35	0.20	50.9	15.7	79	5.18	18.7
557484		3.62	0.001	0.13	5.54	0.5	280	2.81	0.11	0.48	0.18	40.4	17.5	74	15.80	30.1
557485		4.16	0.002	0.20	8.16	0.3	430	3.77	0.24	0.11	0.02	57.9	22.2	100	9.60	46.2
557486		4.45	<0.001	0.13	8.86	<0.2	490	2.89	0.18	0.09	0.18	64.3	21.8	104	14.75	48.8
557487		4.71	<0.001	0.09	8.79	3.3	470	2.72	0.14	0.13	0.47	63.3	19.7	102	7.07	29.2
557488		4.79	<0.001	0.04	8.43	1.4	440	2.50	0.04	0.21	0.16	61.0	19.8	97	13.35	27.3
557489		0.07	0.652	0.17	7.28	20.2	340	1.84	0.11	4.48	0.19	46.8	46.6	189	1.89	58.3
557490		4.87	<0.001	0.12	7.44	0.3	410	2.74	0.13	0.35	0.13	51.3	20.5	86	4.72	28.8
557491		4.65	<0.001	0.11	7.86	1.3	440	2.74	0.15	0.25	0.13	56.3	18.1	91	6.74	22.3
557492		4.98	<0.001	0.02	6.43	0.3	340	2.05	<0.01	0.67	0.26	47.4	14.6	74	7.65	22.1
557493		4.63	<0.001	0.03	6.43	0.4	340	2.26	0.04	0.40	0.17	47.3	14.9	74	7.13	28.8
557494		4.58	<0.001	0.10	8.20	2.7	440	2.44	0.24	0.23	0.12	57.9	19.3	95	12.05	36.1
557495		4.80	<0.001	0.17	7.12	2.1	390	2.09	0.28	0.36	0.23	53.3	18.3	82	7.52	34.2
557496		0.35	<0.001	<0.01	0.15	0.3	20	0.16	<0.01	34.3	<0.02	1.22	0.8	2	0.08	1.8
557497		4.54	<0.001	0.05	5.80	0.4	340	2.21	0.08	0.51	0.15	42.9	16.6	70	4.13	19.1
557498		4.56	<0.001	0.04	6.56	<0.2	380	2.51	0.07	0.48	0.15	48.1	17.2	76	4.83	18.2
557499		4.67	<0.001	0.06	6.64	0.2	380	2.21	0.10	0.43	0.16	51.3	17.3	77	4.79	20.9
557500		5.06	<0.001	0.17	7.13	0.5	410	2.00	0.24	0.33	0.16	53.1	19.4	82	5.00	23.6



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Page: 2 – B  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18203682**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557481		10.45	17.60	0.10	1.7	<0.005	0.036	3.32	23.9	36.2	1.38	12050	0.89	0.71	6.9	31.7
557482		8.54	21.8	0.14	2.2	<0.005	0.047	4.30	29.3	63.6	1.29	7170	0.46	0.48	9.5	40.9
557483		10.30	18.65	0.12	1.8	<0.005	0.037	3.47	26.0	47.2	1.35	12750	0.49	0.55	7.2	33.6
557484		10.25	16.45	0.08	1.6	<0.005	0.038	3.03	20.6	53.4	1.51	5430	0.72	0.09	8.7	40.7
557485		9.00	22.4	0.11	2.2	<0.005	0.051	3.71	29.2	79.0	1.56	522	1.09	0.04	9.2	48.8
557486		7.61	23.8	0.12	2.6	<0.005	0.048	4.82	31.9	75.9	1.19	1500	0.66	0.17	9.0	48.4
557487		7.11	23.3	0.10	2.7	<0.005	0.051	4.58	31.0	54.2	1.09	5010	0.39	0.60	9.0	43.5
557488		7.83	22.6	0.10	2.5	<0.005	0.044	4.37	29.9	57.1	1.15	4900	0.71	0.74	8.9	44.5
557489		7.33	20.3	0.08	3.9	0.025	0.067	0.89	20.9	15.9	2.90	957	2.27	1.72	19.8	145.0
557490		10.60	20.3	0.09	2.2	<0.005	0.044	3.72	26.3	44.5	1.31	14100	0.80	0.74	8.3	38.8
557491		8.75	20.9	0.10	2.3	<0.005	0.042	4.10	28.3	51.2	1.17	9500	0.74	0.55	9.2	36.8
557492		11.25	17.85	0.09	2.0	<0.005	0.040	3.27	23.5	44.1	1.33	11400	0.87	0.59	6.9	32.9
557493		11.05	17.95	0.09	2.0	<0.005	0.039	3.21	23.1	43.0	1.28	11300	0.83	0.68	6.8	32.0
557494		6.92	22.1	0.10	2.4	<0.005	0.045	4.29	28.1	57.4	1.06	3580	0.77	0.60	8.5	40.7
557495		10.00	19.70	0.11	2.3	<0.005	0.038	3.65	26.5	47.2	1.26	9810	1.47	0.60	7.7	35.7
557496		0.16	0.42	<0.05	0.1	<0.005	<0.005	0.03	1.2	1.6	1.55	136	<0.05	0.06	0.2	1.2
557497		11.90	16.20	0.09	1.7	<0.005	0.031	2.86	21.7	33.6	1.38	14100	0.80	0.57	6.2	30.0
557498		11.35	18.40	0.10	2.0	<0.005	0.045	3.15	24.8	36.3	1.41	13550	1.55	0.71	6.9	33.1
557499		10.30	18.35	0.09	2.0	<0.005	0.039	3.21	26.2	38.4	1.38	11750	0.91	0.66	7.0	33.1
557500		10.35	19.30	0.09	2.2	<0.005	0.040	3.53	27.0	38.0	1.45	12700	1.16	0.64	7.5	36.6



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18203682**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557481		310	4.8	131.0	0.003	0.36	0.67	9.6	<1	1.2	68.0	0.51	<0.05	7.36	0.242	0.46
557482		190	21.5	204	<0.002	0.33	0.47	12.0	1	1.5	56.8	0.72	<0.05	9.52	0.291	0.87
557483		270	42.0	136.0	<0.002	0.36	2.70	10.1	1	1.2	67.0	0.55	<0.05	8.10	0.241	0.41
557484		550	9.3	173.0	0.002	0.83	0.20	9.5	2	1.0	75.0	0.56	<0.05	6.13	0.224	0.96
557485		240	14.5	166.5	0.005	1.12	0.17	13.3	2	1.4	40.7	0.66	0.09	9.29	0.302	0.76
557486		260	7.8	226	0.002	0.89	0.11	13.9	2	1.5	44.1	0.68	0.06	10.60	0.320	1.03
557487		270	15.2	185.5	0.002	0.29	0.06	13.3	1	1.5	56.7	0.67	<0.05	10.70	0.322	0.63
557488		280	6.2	206	0.002	0.26	<0.05	12.5	1	1.5	64.4	0.65	<0.05	10.10	0.312	0.88
557489		1140	13.5	38.9	<0.002	0.02	0.89	19.8	1	1.7	356	1.16	<0.05	4.94	0.924	0.21
557490		230	18.0	151.0	<0.002	0.53	<0.05	11.0	1	1.3	70.2	0.61	<0.05	8.88	0.272	0.46
557491		210	22.9	175.5	<0.002	0.42	0.05	11.6	1	1.4	59.7	0.67	<0.05	9.60	0.287	0.58
557492		250	3.0	154.0	<0.002	0.25	<0.05	9.6	1	1.1	111.0	0.50	<0.05	7.66	0.228	0.61
557493		330	4.3	151.5	<0.002	0.18	<0.05	9.6	1	1.1	79.3	0.48	<0.05	7.65	0.230	0.57
557494		190	14.6	211	0.002	0.21	0.07	12.2	1	1.4	68.0	0.61	0.05	9.95	0.294	0.90
557495		260	44.2	173.0	0.002	0.30	<0.05	10.8	2	1.3	77.7	0.58	0.08	8.84	0.258	0.64
557496		60	<0.5	1.6	<0.002	<0.01	<0.05	0.4	3	<0.2	86.1	<0.05	<0.05	0.12	0.009	<0.02
557497		260	6.8	131.0	<0.002	0.37	<0.05	9.1	1	1.0	89.8	0.44	<0.05	7.05	0.212	0.42
557498		330	4.3	150.5	0.002	0.32	<0.05	10.2	1	1.2	92.2	0.52	<0.05	8.03	0.239	0.53
557499		420	7.1	149.0	0.002	0.42	<0.05	10.2	1	1.2	89.9	0.50	<0.05	8.13	0.243	0.51
557500		260	34.3	159.5	0.003	0.52	0.07	10.6	1	1.2	74.9	0.55	0.05	8.66	0.258	0.55



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Page: 2 - D  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18203682**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557481		1.9	92	1.1	5.6	95	59.7
557482		2.1	98	1.5	6.0	115	79.5
557483		2.0	87	1.3	5.9	77	64.2
557484		2.7	134	1.0	5.9	97	56.6
557485		3.9	178	1.7	6.4	220	74.5
557486		2.8	135	1.7	6.3	185	146.0
557487		1.9	113	1.8	5.9	162	94.4
557488		2.0	100	1.6	5.8	121	92.0
557489		1.1	147	2.3	19.1	132	148.5
557490		2.3	106	1.6	5.9	79	80.3
557491		2.2	108	1.7	5.8	92	84.5
557492		1.3	83	1.2	5.1	118	70.9
557493		1.3	89	1.3	5.2	105	70.0
557494		1.8	127	1.6	5.4	127	87.3
557495		1.8	100	1.5	5.6	100	81.4
557496		0.1	3	0.2	2.3	3	3.0
557497		1.8	87	1.2	5.3	73	63.9
557498		2.0	94	1.3	5.7	75	73.3
557499		2.1	97	1.3	6.2	70	75.0
557500		2.3	106	1.4	6.0	70	81.3





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## CERTIFICAT VO18211339

Projet: Kan

Bon de commande #: KANDH18-086

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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**CERTIFICAT D'ANALYSE VO18211339**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557701		2.43	<0.001	0.11	0.80	12.1	10	0.72	0.03	1.73	0.07	13.20	9.2	22	0.30	10.0
557702		2.34	<0.001	0.08	0.98	10.1	20	0.74	0.05	2.08	0.08	15.20	10.2	25	0.76	10.6
557703		2.52	<0.001	0.03	0.66	3.2	10	1.34	0.02	2.11	0.05	11.80	7.3	23	0.28	7.9
557704		2.66	<0.001	0.03	0.55	1.6	30	1.50	0.02	1.81	0.05	12.75	7.5	19	1.22	6.2
557705		3.15	<0.001	0.04	0.69	4.4	20	1.07	0.03	1.84	0.08	11.90	8.2	21	2.06	6.3
557706		2.66	<0.001	0.04	0.94	2.2	20	0.91	0.02	1.87	0.10	14.80	9.8	24	0.81	16.2
557707		2.96	<0.001	0.03	0.62	6.2	10	1.57	0.02	2.64	0.04	11.70	7.4	19	0.14	7.4
557708		2.28	<0.001	0.02	0.61	2.4	30	0.89	0.02	1.62	0.02	13.40	7.9	22	0.61	6.5
557709		0.07	7.06	1.37	6.31	35.4	320	1.02	0.46	2.99	0.07	30.8	42.0	327	0.65	112.5
557710		2.60	<0.001	0.01	0.47	7.6	20	0.53	0.02	2.58	0.08	10.20	10.6	25	0.34	4.0
557711		2.58	<0.001	0.01	0.51	1.2	20	0.64	0.02	3.38	<0.02	10.75	8.1	17	0.35	4.8
557712		2.37	<0.001	0.01	0.18	1.8	20	0.45	0.01	11.45	<0.02	6.19	3.6	12	0.93	1.8
557713		2.48	<0.001	0.02	0.19	2.5	10	0.37	<0.01	11.25	<0.02	7.07	4.0	10	0.86	1.6
557714		4.51	0.004	0.19	2.84	29.2	80	0.65	0.06	3.14	2.66	19.75	18.7	61	0.69	89.0
557715		4.38	0.048	0.75	5.38	112.5	70	0.94	0.29	0.26	4.09	46.4	26.8	78	2.60	267
557716		0.31	<0.001	0.01	0.17	<0.2	20	0.10	<0.01	31.8	0.03	0.88	0.6	2	<0.05	1.1
557717		3.98	0.048	0.74	5.13	134.5	70	0.85	0.33	0.30	3.65	38.3	32.1	85	2.53	262
557718		4.37	0.061	0.88	4.80	155.5	90	0.85	0.39	0.31	3.53	46.2	31.1	66	2.33	269
557719		4.13	0.046	0.59	6.18	116.0	70	1.16	0.30	0.18	3.67	67.2	27.1	75	3.05	169.0
557720		3.50	0.074	0.75	5.10	137.0	70	0.98	0.37	0.25	6.80	46.1	30.7	77	2.58	242



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211339**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557701		21.0	4.10	0.07	0.6	<0.005	0.012	0.03	7.3	9.6	3.01	15050	0.70	<0.01	5.2	12.3
557702		19.35	4.99	0.07	0.8	<0.005	0.017	0.08	8.1	13.4	2.84	17100	0.59	0.01	6.3	13.6
557703		20.7	3.25	0.07	0.5	<0.005	0.014	0.03	6.4	7.9	2.87	13100	0.49	0.05	4.4	9.4
557704		21.4	2.77	0.06	0.5	<0.005	0.015	0.17	6.8	10.6	2.76	11900	0.73	0.03	4.4	8.5
557705		19.30	3.40	0.05	0.5	<0.005	0.013	0.16	6.6	14.2	2.96	13600	0.85	0.01	4.7	10.6
557706		21.0	4.70	0.06	0.7	<0.005	0.020	0.09	8.1	12.5	3.11	17100	0.63	<0.01	6.2	14.3
557707		20.2	3.09	0.06	0.5	<0.005	0.014	0.02	6.3	7.6	2.95	12300	0.43	0.01	4.3	9.2
557708		21.5	3.07	0.08	0.6	<0.005	0.012	0.14	7.0	10.2	2.70	12100	0.74	0.01	5.0	8.9
557709		5.63	15.60	0.06	2.5	0.160	0.049	1.07	14.4	15.5	4.08	774	6.59	1.21	16.3	253
557710		21.1	2.34	0.06	0.4	<0.005	0.010	0.09	5.6	7.5	3.00	10450	1.03	<0.01	3.3	12.1
557711		22.5	2.83	0.06	0.4	<0.005	0.012	0.10	5.9	7.6	3.55	10450	1.16	0.01	3.4	11.5
557712		14.45	1.18	<0.05	0.2	<0.005	<0.005	0.12	3.4	7.6	5.39	6100	0.30	<0.01	2.4	5.3
557713		13.05	1.18	<0.05	0.2	<0.005	0.005	0.11	4.3	7.5	5.18	5220	0.33	<0.01	2.3	7.3
557714		16.75	7.88	0.06	1.1	0.088	0.052	0.53	10.5	17.2	3.01	5220	3.78	0.48	4.5	70.3
557715		20.4	17.00	0.13	2.8	0.326	0.182	2.05	22.3	19.3	1.03	272	23.8	0.29	8.6	168.5
557716		0.20	0.57	0.06	0.1	<0.005	<0.005	0.03	1.0	1.2	1.51	120	0.06	0.09	0.2	0.5
557717		22.1	16.35	0.15	2.2	0.419	0.181	1.91	17.9	18.3	1.08	343	21.9	0.35	5.9	150.5
557718		23.8	15.65	0.16	2.5	0.665	0.185	1.66	22.9	16.6	0.99	268	22.4	0.33	7.3	163.0
557719		18.40	19.95	0.17	4.1	0.369	0.195	2.31	36.3	18.3	0.89	204	22.8	0.66	15.9	146.5
557720		20.8	17.10	0.15	2.7	0.497	0.284	1.94	22.6	18.5	0.96	285	25.9	0.33	7.1	179.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211339**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557701		580	1.8	1.2	<0.002	0.15	0.09	2.5	1	0.2	25.4	0.27	0.05	0.88	0.112	<0.02
557702		540	7.7	3.5	<0.002	0.18	0.11	3.3	1	0.3	27.7	0.35	0.07	1.15	0.127	0.02
557703		470	2.3	1.4	<0.002	0.12	0.08	2.2	1	0.2	22.0	0.26	<0.05	0.71	0.097	<0.02
557704		480	1.3	7.0	<0.002	0.11	0.08	1.7	1	0.2	24.0	0.24	<0.05	0.82	0.075	0.05
557705		520	1.7	8.3	0.002	0.13	0.08	2.2	1	0.2	36.5	0.23	0.06	0.79	0.084	0.06
557706		590	1.4	3.8	0.002	0.24	0.12	3.1	1	0.2	25.7	0.34	0.07	1.00	0.127	0.02
557707		440	1.4	0.9	<0.002	0.11	0.09	2.1	1	0.2	23.2	0.24	<0.05	0.71	0.091	<0.02
557708		500	1.4	5.3	<0.002	0.13	0.06	1.9	1	0.2	19.3	0.28	<0.05	0.87	0.078	0.03
557709		1130	10.1	37.6	0.002	0.08	0.87	21.1	1	1.1	289	0.88	0.28	2.43	0.686	0.19
557710		400	1.2	3.5	<0.002	0.09	0.13	1.5	1	0.2	24.8	0.14	0.06	0.56	0.057	0.03
557711		420	0.9	4.0	<0.002	0.09	0.07	1.6	1	0.2	25.3	0.16	0.07	0.55	0.057	0.02
557712		250	1.3	6.5	<0.002	0.02	0.10	0.6	1	<0.2	65.2	0.11	<0.05	0.32	0.032	0.05
557713		380	1.4	6.0	<0.002	0.03	0.10	0.6	1	<0.2	77.2	0.11	<0.05	0.34	0.031	0.06
557714		370	10.9	20.8	0.004	2.88	2.25	9.6	2	0.7	57.3	0.25	0.12	1.55	0.102	0.73
557715		300	77.1	70.3	0.029	>10.0	16.30	10.4	7	2.7	16.4	0.52	0.98	5.11	0.142	4.55
557716		60	0.7	0.7	<0.002	0.01	0.07	0.2	1	<0.2	79.0	<0.05	<0.05	0.14	0.006	<0.02
557717		340	76.1	59.4	0.024	>10.0	15.90	10.6	7	3.0	20.1	0.34	1.21	3.80	0.136	4.49
557718		260	89.9	60.4	0.022	>10.0	17.65	9.5	9	3.0	17.8	0.47	1.28	4.51	0.119	4.38
557719		290	70.0	79.9	0.020	>10.0	13.70	9.9	6	4.1	20.8	1.14	0.96	6.97	0.158	5.18
557720		290	89.1	68.1	0.024	>10.0	16.60	10.2	7	4.3	23.6	0.46	1.15	5.14	0.130	4.83



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 16-SEPT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211339**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557701		0.5	74	0.8	6.1	13	26.2
557702		0.8	88	0.5	6.5	16	32.5
557703		0.4	56	0.4	5.6	12	21.3
557704		0.5	49	0.4	5.8	11	21.1
557705		0.5	62	0.3	5.6	14	22.8
557706		0.7	87	0.2	6.4	29	30.1
557707		0.4	55	0.5	5.7	10	20.3
557708		0.5	53	0.6	6.5	12	23.8
557709		0.6	148	9.4	14.5	85	102.0
557710		0.3	37	0.5	5.6	24	15.5
557711		0.4	38	0.8	6.2	10	15.9
557712		0.2	16	0.5	4.7	5	8.2
557713		0.2	16	0.9	6.8	4	8.0
557714		2.2	104	1.7	6.7	607	40.9
557715		9.7	232	1.1	11.8	1120	110.0
557716		0.1	1	0.1	2.6	4	1.8
557717		10.2	203	1.2	10.1	987	86.3
557718		11.4	217	1.0	11.6	1020	96.2
557719		11.2	234	1.2	14.2	1220	148.5
557720		12.2	248	1.1	11.0	2180	101.0





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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 16-SEPT-2018  
Compte: MINVIR

## CERTIFICAT VO18211343

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Bon de commande #: KANDH18-087

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211343**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557721		3.97	0.060	0.76	5.15	140.0	120	0.98	0.40	0.26	3.16	43.1	32.5	77	2.35	265
557722		3.19	0.051	0.85	4.75	94.9	50	0.80	0.62	0.44	4.54	35.6	43.7	78	1.94	318
557723		1.91	0.001	0.28	4.77	22.1	120	0.94	0.13	1.78	0.10	43.2	32.7	105	2.09	296
557724		4.67	0.001	0.08	6.50	45.0	200	0.41	0.02	3.48	0.16	11.40	44.3	133	0.59	150.0
557725		4.34	<0.001	0.09	6.75	92.1	20	0.36	<0.01	3.59	0.11	8.39	46.2	130	0.18	138.0
557726		3.94	<0.001	0.02	5.94	200	50	0.36	0.01	5.34	0.10	4.89	62.6	106	0.23	46.5
557727		3.40	<0.001	0.07	6.59	52.2	70	0.37	0.01	5.23	1.01	9.92	45.6	118	0.20	121.5
557728		4.89	0.063	1.03	5.35	80.6	140	0.97	0.29	1.11	1.52	55.4	52.6	104	1.91	220
557729		0.07	0.666	0.21	6.87	20.3	330	1.50	0.14	4.29	0.20	44.2	41.3	190	1.83	56.8
557730		4.35	0.082	1.08	5.34	114.5	90	0.95	0.20	0.28	1.13	43.9	49.2	104	2.18	167.0
557731		4.30	0.006	0.31	6.20	45.7	80	0.54	0.13	3.38	1.49	21.2	41.6	124	0.97	184.0
557732		4.62	0.001	0.19	5.60	120.5	50	0.54	0.02	6.79	0.16	13.90	52.9	117	0.58	149.5
557733		4.15	0.065	1.48	4.44	103.0	130	0.96	0.48	0.42	4.17	48.0	46.2	67	1.99	274
557734		3.74	0.003	0.50	6.25	6.6	360	0.75	0.08	4.23	1.09	16.95	26.5	129	2.21	222
557735		3.78	<0.001	0.12	6.29	28.9	320	0.39	0.03	6.66	0.18	11.40	43.5	130	1.26	160.5
557736		0.29	<0.001	<0.01	0.08	<0.2	20	0.05	<0.01	33.3	0.02	0.92	0.9	1	<0.05	1.5
557737		3.78	<0.001	0.05	6.35	49.4	280	0.35	0.03	7.55	0.21	9.18	43.4	123	0.84	143.0
557738		4.44	<0.001	0.07	7.10	45.3	100	0.51	0.03	5.82	0.17	13.70	49.7	139	0.27	144.5
557739		4.31	0.001	0.09	6.70	63.8	40	0.47	0.03	7.47	0.42	13.65	51.5	116	0.11	124.0
557740		4.30	0.001	0.12	6.57	44.9	30	0.33	0.03	5.97	0.35	11.25	44.9	133	0.10	131.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211343**

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557721		22.2	15.40	0.16	2.4	0.365	0.168	1.85	21.1	17.1	0.95	271	22.9	0.43	7.0	158.0
557722		23.5	15.20	0.16	2.1	0.668	0.229	1.55	17.9	18.2	1.34	395	19.65	0.42	4.3	129.5
557723		15.60	15.25	0.11	1.9	0.016	0.063	1.73	22.6	20.7	2.25	882	17.90	0.08	5.9	93.6
557724		9.49	16.00	0.08	1.2	0.007	0.079	0.57	4.4	61.7	5.65	911	1.44	0.75	1.1	85.0
557725		8.22	15.85	0.08	1.0	0.005	0.071	0.05	3.0	69.9	6.16	1060	0.25	1.25	0.7	132.5
557726		8.66	13.95	0.07	0.6	0.010	0.049	0.07	1.7	71.7	7.30	1600	0.17	0.50	0.5	345
557727		8.76	15.50	0.07	1.0	<0.005	0.065	0.12	3.8	54.2	4.42	1320	1.37	1.32	1.0	138.5
557728		20.4	16.55	0.16	2.5	0.282	0.094	1.53	30.1	14.9	1.07	309	15.80	1.37	2.1	95.6
557729		7.12	18.80	0.09	3.6	0.022	0.068	0.84	19.5	14.5	2.80	903	2.41	1.68	19.9	139.5
557730		19.95	17.05	0.16	2.8	0.231	0.085	1.61	22.1	20.4	0.99	141	13.60	0.95	2.3	93.4
557731		12.55	16.50	0.10	1.3	0.093	0.128	0.76	10.1	47.6	3.10	1000	6.11	1.49	1.8	112.5
557732		8.29	14.35	0.06	1.1	0.018	0.064	0.51	5.8	66.2	4.71	1530	1.09	0.93	1.2	217
557733		22.1	14.15	0.18	2.7	0.446	0.165	1.42	25.4	18.6	0.99	320	23.5	0.38	7.5	161.5
557734		10.30	15.55	0.09	1.8	0.058	0.088	2.21	7.8	21.5	2.61	1440	6.02	0.71	1.5	119.5
557735		6.93	15.50	0.08	1.7	0.014	0.083	1.33	4.5	50.3	3.35	1140	1.42	0.68	0.9	92.0
557736		0.15	0.27	0.09	<0.1	<0.005	<0.005	0.01	1.1	1.5	1.61	94	<0.05	0.03	0.1	0.9
557737		7.68	15.25	0.06	1.6	0.007	0.074	0.91	3.5	66.4	3.49	1100	1.02	0.61	0.6	90.5
557738		9.48	18.00	0.07	1.7	0.009	0.093	0.21	5.3	89.4	3.41	1180	2.55	1.32	0.8	104.0
557739		7.74	17.00	0.06	1.3	0.029	0.091	0.07	5.4	83.5	2.88	1250	1.61	1.20	1.0	98.3
557740		9.68	16.10	0.07	1.2	0.027	0.078	0.06	4.4	86.9	3.30	1120	1.80	1.35	0.7	87.0





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211343**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557721		340	92.2	66.2	0.022	>10.0	16.90	9.8	7	2.8	22.1	0.43	1.87	4.61	0.133	4.34
557722		280	69.8	46.6	0.019	>10.0	14.35	9.8	9	3.5	26.0	0.28	3.12	3.75	0.100	3.35
557723		320	9.8	59.2	0.014	8.08	2.06	15.0	8	1.9	59.7	0.34	0.88	3.70	0.156	2.70
557724		360	3.3	19.7	0.002	1.53	0.43	40.8	1	0.4	76.5	0.08	0.20	0.41	0.166	0.87
557725		330	1.2	2.5	0.002	0.10	0.27	39.6	<1	<0.2	68.5	0.05	0.05	0.24	0.131	0.13
557726		220	1.5	2.5	<0.002	0.12	0.28	25.6	1	<0.2	83.0	<0.05	0.06	0.13	0.108	0.13
557727		350	3.5	4.2	0.003	0.61	0.32	37.4	1	<0.2	78.8	0.07	0.17	0.58	0.141	0.15
557728		260	71.9	62.0	0.015	>10.0	15.10	12.0	7	1.5	35.6	0.12	3.10	5.12	0.063	2.78
557729		1130	14.3	24.0	<0.002	0.03	1.01	18.9	1	1.7	342	1.15	0.05	4.39	0.890	0.20
557730		200	77.4	54.9	0.012	>10.0	15.25	12.6	9	1.2	24.3	0.13	3.98	3.69	0.067	3.23
557731		360	17.4	29.5	0.008	4.10	2.69	34.9	3	1.4	59.0	0.11	0.43	1.41	0.114	1.42
557732		310	6.2	18.6	0.003	1.15	0.57	35.3	1	0.5	117.0	0.09	0.13	0.56	0.166	0.97
557733		310	68.1	47.2	0.027	>10.0	11.85	9.0	8	2.8	18.4	0.62	1.43	5.36	0.104	3.31
557734		450	15.7	70.3	0.008	4.60	2.08	35.8	3	1.6	88.8	0.10	0.23	1.04	0.164	3.96
557735		360	8.6	39.5	0.003	1.21	0.61	39.1	1	0.7	97.8	0.06	0.15	0.41	0.176	2.21
557736		70	<0.5	0.5	<0.002	0.01	<0.05	0.3	1	<0.2	81.4	<0.05	<0.05	0.06	0.006	0.02
557737		360	5.4	26.1	0.002	0.58	0.37	37.6	1	0.4	72.4	<0.05	0.10	0.32	0.132	1.57
557738		420	5.5	5.3	0.005	1.17	0.33	42.2	1	0.4	73.2	0.05	0.14	0.59	0.124	0.34
557739		390	7.3	1.0	0.004	0.73	0.37	40.9	2	0.6	106.5	0.07	0.10	0.63	0.142	0.06
557740		400	6.1	0.9	0.004	1.56	0.46	42.4	1	0.5	70.5	0.05	0.22	0.49	0.115	0.04



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 16-SEPT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18211343**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557721		10.8	215	0.9	11.6	903	95.8
557722		9.4	159	0.7	9.4	1170	79.4
557723		5.6	159	0.7	8.0	76	74.3
557724		0.4	312	0.2	4.7	109	48.2
557725		0.1	279	0.8	4.2	86	42.3
557726		0.1	222	2.1	3.7	121	21.0
557727		0.4	287	0.4	7.6	255	32.1
557728		7.3	126	0.7	8.6	363	97.9
557729		1.1	146	2.1	18.4	128	143.5
557730		6.5	123	0.6	7.6	281	109.0
557731		2.4	275	0.3	5.7	446	50.6
557732		0.7	250	0.5	5.2	101	37.1
557733		12.9	218	0.7	12.7	1060	101.0
557734		3.8	309	0.8	10.3	264	65.9
557735		0.7	297	0.1	3.7	133	59.3
557736		0.1	3	0.2	2.0	3	1.5
557737		0.6	297	0.1	4.3	138	55.6
557738		1.2	324	0.1	6.8	200	64.2
557739		0.7	305	0.1	7.6	266	44.5
557740		0.7	318	0.1	6.3	250	52.1





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Page: 1  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

**CERTIFICAT VO18211348**

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 Bon de commande #: KANDH18-088  
 Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-AOUT-2018.  
 Les résultats sont transmis à:

GLENN ASCH SIMON HEBERT LIZ STOCK	KAREN CHIU SIMON HOULE CORPORATIF WEBTRIEVE	PAUL DOBAK LEE SCHOLL
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PRÉPARATION ÉCHANTILLONS	
CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

PROCÉDURES ANALYTIQUES		
CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211348**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557741		4.41	0.002	0.09	6.42	8.4	10	0.39	0.02	8.00	0.28	9.85	48.5	113	0.07	181.5
557742		4.47	0.003	0.10	6.42	2.6	<10	0.34	0.02	8.16	0.35	9.41	42.6	114	0.08	123.0
557743		4.43	<0.001	0.04	6.36	3.4	<10	0.29	0.03	6.14	0.18	10.20	45.5	124	0.05	131.5
557744		4.71	0.001	0.06	6.31	38.7	<10	0.37	0.01	7.70	0.26	8.70	45.7	111	0.06	132.0
557745		4.56	<0.001	0.06	6.51	44.5	10	0.43	0.01	7.12	0.20	10.75	41.6	124	0.11	120.0
557746		4.77	0.001	0.14	5.92	57.6	10	0.31	0.01	6.28	0.15	9.61	43.8	115	0.10	133.0
557747		4.56	0.007	0.25	5.74	45.8	20	0.41	0.06	5.67	0.85	13.30	40.9	113	0.10	177.0
557748		4.55	0.001	0.18	6.26	40.8	110	0.60	0.06	6.30	0.44	12.50	41.3	126	0.17	127.0
557749		0.07	2.52	0.43	6.70	11.7	310	1.17	0.16	4.62	0.08	42.5	51.2	308	0.68	82.8
557750		4.55	<0.001	0.07	6.03	41.9	60	0.65	0.01	6.36	0.09	7.83	40.4	119	0.17	115.5
557751		4.67	<0.001	0.15	6.59	62.9	100	0.56	<0.01	5.23	0.12	10.55	46.4	126	0.43	96.6
557752		4.61	0.056	2.64	3.89	47.1	110	0.91	0.31	1.60	12.05	67.2	26.0	64	2.47	288
557753		3.85	0.014	1.00	7.59	55.8	170	1.47	0.16	0.80	4.33	60.1	19.8	92	3.85	144.0
557754		4.44	0.016	1.21	7.25	41.7	170	1.75	0.17	0.91	9.70	80.4	20.4	94	4.01	183.0
557755		4.65	0.005	1.27	7.89	84.7	180	1.71	0.25	1.40	4.95	65.6	33.7	102	4.72	94.0
557756		0.32	<0.001	<0.01	0.17	0.3	20	0.07	0.01	32.2	0.03	1.21	1.1	2	<0.05	2.7
557757		4.82	0.031	2.28	4.44	114.0	120	1.09	0.37	1.85	13.55	45.8	32.5	64	3.26	237
557758		4.57	0.046	1.98	3.89	160.0	100	0.66	0.45	1.66	15.35	40.5	38.2	65	2.38	129.5
557759		4.66	0.038	2.07	5.17	124.0	120	0.98	0.52	1.71	9.76	56.8	37.8	73	2.93	160.0
557760		4.36	0.007	0.65	9.32	30.1	200	2.03	0.13	1.07	2.50	100.5	12.8	107	3.97	124.5



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211348**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
557741		8.78	17.45	0.07	0.9	0.008	0.080	0.02	3.6	67.6	3.10	1440	0.97	1.09	2.5	98.5
557742		8.94	14.95	0.06	0.8	0.010	0.072	0.01	3.4	69.5	3.36	1440	0.73	0.38	3.1	87.5
557743		9.38	15.40	0.06	1.1	0.012	0.078	<0.01	3.8	82.1	3.59	1270	1.25	0.93	1.6	95.0
557744		8.44	15.20	0.05	0.6	<0.005	0.070	0.03	3.2	99.7	3.20	1400	0.47	0.54	0.8	92.3
557745		8.99	16.30	0.06	0.8	0.007	0.070	0.08	4.0	98.7	3.50	1400	0.95	0.86	0.8	93.3
557746		8.56	14.65	0.06	0.9	0.007	0.070	0.08	3.6	86.6	3.16	1240	1.17	0.84	0.8	85.0
557747		10.45	14.65	0.06	1.3	0.066	0.098	0.09	5.5	79.3	3.23	1210	3.07	0.94	0.9	92.2
557748		8.94	16.15	0.06	1.1	0.042	0.082	0.19	5.0	81.3	3.19	1200	1.90	1.36	1.1	83.5
557749		7.24	17.85	0.09	3.2	0.049	0.056	0.96	21.0	8.9	5.37	1000	3.26	1.93	28.4	341
557750		7.92	14.40	0.05	0.9	0.009	0.058	0.17	2.9	85.7	3.37	1340	0.25	1.21	1.1	83.8
557751		8.30	16.85	0.07	1.1	0.023	0.067	0.41	4.0	104.5	3.65	1290	0.33	1.13	1.5	114.5
557752		19.30	11.70	0.20	2.7	0.632	0.165	1.34	38.7	19.2	0.92	1310	83.2	0.23	8.2	255
557753		12.05	19.20	0.15	4.0	0.331	0.100	2.67	33.9	36.5	1.00	512	19.05	0.36	10.9	146.5
557754		12.05	20.6	0.17	5.8	0.498	0.143	2.50	44.3	36.8	0.95	653	43.9	0.47	16.7	153.0
557755		11.10	21.7	0.15	6.4	0.463	0.081	2.96	35.5	34.7	1.20	840	32.6	0.28	23.7	118.5
557756		0.22	0.53	0.08	0.1	<0.005	0.006	0.02	1.3	2.7	1.35	92	0.09	0.05	0.2	1.1
557757		16.50	11.85	0.16	1.7	0.978	0.139	1.70	28.2	14.2	0.89	993	77.7	0.31	4.5	237
557758		16.40	10.40	0.15	1.4	1.165	0.169	1.34	25.5	15.0	0.81	749	86.0	0.19	3.7	193.5
557759		15.55	14.05	0.16	2.2	0.882	0.127	1.61	35.3	23.6	1.03	704	64.0	0.44	5.7	192.0
557760		9.86	26.8	0.18	8.6	0.141	0.087	2.68	54.7	49.9	1.22	378	10.60	0.78	37.5	118.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18211348**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557741		350	3.6	0.3	0.003	0.56	0.83	41.3	1	0.6	88.4	0.16	0.06	0.33	0.453	0.02
557742		380	3.1	0.1	0.002	0.47	1.54	39.6	1	0.6	106.5	0.21	0.09	0.30	0.617	<0.02
557743		360	2.1	0.1	0.003	0.76	0.71	40.4	1	0.5	58.4	0.11	0.10	0.37	0.263	<0.02
557744		360	3.8	0.3	0.003	0.32	0.31	38.9	1	0.3	98.5	0.06	0.05	0.25	0.166	<0.02
557745		350	5.9	0.9	0.003	0.64	0.24	40.8	1	0.3	121.5	0.06	0.10	0.37	0.146	0.03
557746		340	5.6	0.9	0.002	0.62	0.24	36.1	1	0.3	96.9	0.06	0.08	0.33	0.144	0.04
557747		350	10.6	1.1	0.006	2.17	0.87	34.2	2	0.4	94.0	0.07	0.27	0.75	0.113	0.06
557748		370	12.6	3.9	0.002	1.70	0.78	38.6	2	0.7	83.7	0.07	0.25	0.52	0.172	0.20
557749		1820	5.5	31.0	<0.002	0.03	0.41	20.8	<1	1.3	469	1.62	0.10	2.69	1.030	0.06
557750		330	5.5	3.6	0.002	0.61	0.20	37.0	1	0.3	115.5	0.07	0.06	0.21	0.229	0.16
557751		360	8.8	12.0	<0.002	0.93	0.29	40.7	1	0.5	120.0	0.10	0.06	0.26	0.298	0.55
557752		1290	80.6	48.5	0.060	>10.0	6.54	7.9	11	1.4	52.0	0.50	0.56	5.32	0.091	2.96
557753		410	36.9	77.5	0.021	8.36	4.19	17.4	7	1.9	54.9	0.65	0.37	4.83	0.316	4.60
557754		700	41.9	77.8	0.034	8.23	3.27	16.6	9	2.3	61.9	1.05	0.23	6.26	0.246	4.33
557755		480	39.0	81.2	0.029	8.78	6.28	17.7	7	2.3	67.9	1.61	0.51	6.80	0.331	5.18
557756		70	1.2	0.6	<0.002	0.01	0.05	1.2	1	<0.2	82.8	<0.05	<0.05	0.08	0.014	<0.02
557757		830	60.1	57.5	0.067	>10.0	8.04	8.7	14	1.2	66.2	0.28	0.63	4.00	0.116	3.94
557758		810	61.0	48.5	0.080	>10.0	8.37	7.2	12	1.0	60.1	0.22	0.78	3.67	0.090	3.17
557759		780	63.1	55.5	0.059	>10.0	9.29	10.7	13	1.3	68.8	0.35	0.99	4.66	0.140	3.76
557760		430	19.2	73.6	0.010	5.70	1.39	20.0	3	3.2	148.5	2.16	0.17	9.07	0.365	3.75



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18211348**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557741		0.3	310	0.1	20.2	107	34.7
557742		0.3	323	0.2	21.9	118	22.4
557743		0.6	305	0.1	18.7	158	20.2
557744		0.2	294	0.1	7.5	106	17.9
557745		0.4	300	0.1	4.9	137	43.3
557746		0.5	275	0.1	4.3	124	53.2
557747		1.4	260	0.1	4.7	290	40.5
557748		0.7	289	0.5	4.0	224	54.6
557749		0.6	146	3.2	20.6	105	138.5
557750		0.1	281	1.3	3.3	140	34.6
557751		0.1	300	0.9	4.9	154	40.9
557752		38.6	713	1.8	21.1	2130	101.0
557753		14.0	239	1.8	13.2	775	147.0
557754		23.6	399	1.8	18.9	1580	207
557755		19.5	421	2.0	18.2	863	234
557756		0.3	6	<0.1	2.6	8	2.5
557757		35.3	824	2.1	19.1	2340	67.0
557758		37.0	878	1.9	18.7	2800	55.7
557759		32.1	661	1.8	18.0	1660	86.3
557760		10.9	155	1.3	19.0	501	326







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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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## CERTIFICAT VO18211352

Projet: Kan

Bon de commande #: KANDH18-089

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18211352**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557761		4.43	0.003	0.77	9.27	18.2	210	1.96	0.18	0.74	2.35	87.3	12.8	115	4.29	106.5
557762		4.67	0.003	1.09	8.74	53.5	230	1.86	0.21	0.54	6.81	55.3	51.3	108	4.33	91.4
557763		4.31	0.002	1.20	8.58	45.5	270	2.08	0.27	0.59	3.13	56.3	31.1	105	4.01	125.0
557764		4.17	0.004	0.76	9.78	41.9	320	2.85	0.15	0.25	2.98	73.6	26.0	125	4.98	99.7
557765		4.41	0.038	3.07	5.67	21.7	150	1.87	0.42	0.54	13.45	59.8	16.1	81	3.89	229
557766		1.66	0.026	2.95	3.50	5.1	140	1.24	0.23	1.29	16.95	50.3	1.8	63	3.25	222
557767		4.70	0.016	1.41	7.07	55.9	180	1.98	0.27	1.46	7.24	60.8	19.0	73	4.40	145.0
557768		4.56	0.024	1.26	7.72	56.8	230	1.85	0.24	1.50	3.37	62.4	21.4	84	4.42	131.0
557769		0.07	7.57	1.26	6.02	35.9	310	0.95	0.51	2.84	0.09	30.1	41.4	314	0.67	110.5
557770		4.51	0.018	0.92	8.18	54.9	230	2.14	0.18	0.97	3.74	66.5	21.8	93	4.57	125.5
557771		3.89	0.044	2.69	5.72	116.5	130	2.74	0.30	2.01	9.32	57.7	22.4	67	4.20	161.5
557772		4.57	0.062	3.78	2.55	54.3	120	2.02	0.30	1.79	23.4	64.1	17.9	54	2.91	554
557773		4.49	0.053	3.80	2.33	94.4	100	1.76	0.54	1.71	22.2	47.7	37.1	57	2.74	520
557774		3.90	0.039	2.75	3.39	23.1	160	2.61	0.26	0.64	30.8	42.0	10.7	68	4.75	462
557775		4.28	0.026	1.84	3.44	99.4	120	1.98	0.25	1.35	17.55	53.9	24.5	57	2.28	367
557776		0.29	<0.001	0.01	0.06	0.3	10	0.07	0.01	31.4	0.05	1.07	1.0	1	<0.05	1.9
557777		4.74	0.043	2.81	2.83	168.5	140	2.85	0.33	1.25	22.3	60.7	22.7	56	2.96	401
557778		4.66	0.036	3.62	2.04	209	120	2.70	0.46	1.87	24.9	43.1	14.7	51	3.04	754
557779		4.35	0.033	2.15	2.25	186.5	90	1.69	0.29	1.71	16.90	48.0	10.1	48	2.17	406
557780		4.61	0.049	2.29	3.09	205	140	2.89	0.29	0.91	23.1	56.0	16.1	59	2.94	372



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18211352**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
557761		9.03	27.0	0.15	8.1	0.153	0.097	2.90	47.5	43.5	0.96	297	10.70	0.87	31.2	116.0
557762		10.50	24.8	0.15	4.1	0.305	0.130	3.19	30.7	38.2	0.86	256	10.95	0.54	11.0	101.5
557763		11.35	23.2	0.14	4.2	0.162	0.108	3.49	30.3	31.5	0.93	294	9.68	0.24	11.9	131.5
557764		8.56	27.2	0.17	5.0	0.160	0.108	4.10	40.3	32.4	0.76	162	11.45	0.26	15.1	109.0
557765		13.95	14.40	0.18	2.6	0.550	0.121	2.09	37.1	14.6	0.68	314	106.5	0.18	6.4	233
557766		14.30	9.13	0.15	1.4	0.627	0.113	1.28	35.9	9.5	0.82	770	154.0	0.11	3.6	267
557767		12.45	19.15	0.15	3.3	0.526	0.101	3.04	35.9	19.2	1.05	558	44.1	0.32	7.5	169.0
557768		10.85	20.6	0.14	3.4	0.426	0.068	3.49	36.0	21.3	1.12	595	12.85	0.21	9.9	132.0
557769		5.42	15.25	0.09	2.4	0.177	0.049	1.05	15.7	15.6	3.90	714	6.13	1.17	17.1	243
557770		9.59	23.9	0.16	6.4	0.439	0.094	3.67	35.3	27.1	0.93	450	12.05	0.18	22.8	112.5
557771		12.70	15.80	0.18	2.4	0.968	0.065	2.51	35.2	27.1	1.24	1640	52.6	0.11	7.1	179.0
557772		16.65	8.21	0.23	2.4	1.120	0.070	1.08	38.1	18.3	1.05	2880	132.5	0.04	7.5	356
557773		17.65	6.83	0.21	1.5	1.420	0.068	1.00	30.0	17.0	0.95	2430	114.5	0.03	3.0	345
557774		15.20	9.22	0.18	1.4	1.375	0.092	1.59	29.2	23.8	0.54	647	163.0	0.04	2.9	337
557775		15.60	10.25	0.18	1.7	0.862	0.052	1.27	28.3	23.6	1.21	3290	73.0	0.09	2.3	216
557776		0.14	0.26	0.10	<0.1	<0.005	<0.005	0.01	1.2	1.2	1.45	84	0.28	0.02	0.1	1.1
557777		16.15	9.07	0.21	2.3	0.917	0.063	1.21	36.1	24.0	0.98	2660	115.5	0.05	5.8	224
557778		18.45	6.93	0.20	1.2	0.963	0.071	0.90	28.5	21.7	1.24	3490	128.0	0.03	2.7	296
557779		14.70	7.23	0.16	1.2	0.779	0.051	0.80	28.5	19.8	1.30	3560	108.0	0.03	2.9	203
557780		14.05	9.58	0.19	2.2	0.870	0.078	1.39	34.3	20.8	0.83	2340	107.0	0.10	4.0	219



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18211352**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557761		320	20.1	79.7	0.011	4.90	1.23	20.0	2	3.0	129.0	1.69	0.21	8.47	0.319	4.22
557762		310	21.5	89.0	0.012	7.63	1.80	20.3	3	2.1	87.4	0.57	0.29	5.02	0.299	5.01
557763		300	17.3	86.9	0.010	7.72	2.40	19.7	3	2.0	48.6	0.60	0.38	4.66	0.279	4.93
557764		320	10.6	117.0	0.011	5.42	2.04	22.0	3	2.4	50.5	0.77	0.26	6.14	0.369	6.19
557765		930	36.0	72.7	0.072	8.58	5.99	11.8	11	1.7	49.5	0.36	0.39	4.96	0.164	4.13
557766		1060	39.7	55.0	0.107	7.89	3.85	7.7	12	1.4	57.7	0.22	0.23	4.53	0.085	3.15
557767		310	37.1	95.5	0.041	9.09	6.20	13.1	6	2.1	48.3	0.42	0.47	5.26	0.192	5.89
557768		230	32.1	97.6	0.017	8.17	4.75	17.3	5	1.9	46.3	0.47	0.47	4.76	0.233	7.06
557769		1080	9.9	38.2	<0.002	0.09	0.81	21.1	1	1.0	274	0.90	0.25	2.38	0.656	0.22
557770		250	25.2	102.5	0.014	7.15	3.68	17.1	4	2.7	44.4	1.25	0.34	6.54	0.259	7.37
557771		940	54.5	90.7	0.044	>10.0	10.50	10.7	13	1.6	56.0	0.43	0.61	4.75	0.145	6.00
557772		2820	43.3	48.2	0.115	>10.0	8.39	5.2	30	1.1	51.3	0.44	0.37	4.78	0.063	3.06
557773		2170	53.3	44.4	0.100	>10.0	11.90	5.0	29	0.9	47.8	0.19	0.87	3.63	0.056	2.90
557774		970	42.6	73.1	0.141	9.01	5.31	7.2	24	1.1	26.8	0.18	0.29	4.31	0.074	4.42
557775		1360	26.2	59.1	0.058	8.77	3.30	6.6	19	0.8	46.3	0.12	0.41	4.90	0.049	3.37
557776		60	0.5	0.2	<0.002	0.01	0.06	0.3	1	<0.2	79.3	<0.05	<0.05	0.06	0.005	<0.02
557777		1720	44.3	63.0	0.092	9.26	6.46	6.1	27	1.2	45.6	0.34	0.69	4.52	0.052	3.51
557778		2480	56.4	48.0	0.094	9.94	10.05	5.2	28	0.9	62.5	0.15	0.81	3.20	0.044	2.66
557779		2110	37.6	43.4	0.070	7.38	6.27	5.0	19	0.8	52.6	0.17	0.53	3.34	0.041	2.36
557780		1540	43.5	61.2	0.090	7.87	5.57	6.0	26	1.2	36.8	0.27	0.55	4.91	0.051	3.20



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18211352**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
557761		10.9	156	1.4	16.2	444	305
557762		9.9	161	1.5	10.2	1000	164.0
557763		9.3	154	1.7	10.2	502	170.0
557764		11.0	175	2.0	12.0	453	199.0
557765		52.7	999	4.1	21.4	1890	105.5
557766		83.8	1640	4.8	21.0	2520	59.4
557767		26.5	445	2.1	14.6	1130	130.0
557768		11.9	179	1.7	11.4	577	138.5
557769		0.6	142	8.7	14.7	83	99.1
557770		11.8	164	1.6	16.3	643	241
557771		27.3	463	1.9	18.9	1390	100.0
557772		63.0	1220	2.3	37.9	3350	100.5
557773		55.1	1040	2.2	30.7	3260	62.4
557774		78.0	1690	3.6	20.1	4500	60.1
557775		38.3	702	1.2	19.2	2510	66.5
557776		0.2	3	<0.1	2.2	6	1.7
557777		51.9	967	1.6	26.7	2790	96.4
557778		57.2	1230	1.7	28.1	3100	50.8
557779		46.2	954	0.8	24.8	2170	52.2
557780		52.4	959	1.1	26.3	2930	89.8





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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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## CERTIFICAT VO18211354

Projet: Kan

Bon de commande #: KANDH18-090

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager





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À: **MINIÈRE OSISKO INC.**  
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**BUREAU 200**  
**QUEBEC QC G1K 7R1**

Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211354**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557781		4.75	0.027	2.00	1.53	180.0	60	1.11	0.23	3.84	9.25	43.5	14.2	37	1.56	384
557782		4.55	0.052	2.61	2.21	128.0	110	1.40	0.34	2.67	16.45	44.2	19.9	55	2.66	410
557783		4.38	0.027	1.86	3.69	83.9	150	2.21	0.25	1.83	16.05	52.2	20.8	63	3.58	296
557784		4.45	0.048	2.53	2.73	263	110	1.86	0.37	0.68	25.1	37.3	25.5	63	3.25	301
557785		4.65	0.032	2.15	2.11	39.0	100	1.24	0.16	1.75	19.65	48.6	6.0	54	2.74	661
557786		4.46	0.049	2.88	2.40	156.0	100	1.40	0.41	1.43	15.40	45.1	24.6	52	2.92	423
557787		4.74	0.050	2.36	3.25	393	70	1.86	0.46	0.91	26.4	41.9	30.7	67	4.00	120.5
557788		4.64	0.053	2.40	2.46	378	90	1.48	0.43	1.19	23.8	41.0	28.4	61	3.47	168.0
557789		0.07	0.663	0.18	6.76	21.5	320	1.38	0.13	4.13	0.20	46.5	43.1	180	1.88	53.9
557790		4.37	0.044	2.72	2.40	279	100	1.30	0.40	1.55	19.85	38.0	25.4	59	3.48	264
557791		4.22	0.055	2.27	3.32	243	120	1.77	0.39	1.68	21.6	45.6	26.6	81	3.74	224
557792		4.76	0.051	2.50	3.19	126.0	100	1.43	0.26	2.44	11.35	45.7	18.7	53	2.73	273
557793		4.56	0.010	0.83	7.65	63.2	210	2.27	0.17	1.34	2.72	80.3	18.7	93	4.83	169.5
557794		4.77	0.019	1.85	3.45	48.6	90	1.02	0.22	4.15	4.70	41.1	12.3	55	2.77	314
557795		4.77	0.017	2.34	4.24	78.8	110	1.85	0.45	0.73	8.26	52.8	25.1	64	3.96	383
557796		0.31	0.002	0.01	0.07	<0.2	10	<0.05	0.01	31.3	0.02	0.92	0.7	1	<0.05	1.1
557797		3.76	0.014	1.45	2.89	17.5	140	1.51	0.21	2.56	17.80	60.2	14.3	61	2.38	269
557798		1.73	<0.001	0.40	6.07	15.7	340	2.28	0.18	0.49	3.41	83.6	20.2	55	3.47	113.5
557799		3.51	0.015	1.38	4.51	14.4	210	2.11	0.60	1.34	2.34	68.5	26.1	51	2.56	216
557800		4.82	0.011	1.51	4.56	6.7	240	2.63	0.46	1.41	2.25	68.9	26.2	53	3.00	207



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18211354**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557781		16.85	4.94	0.18	0.9	0.490	0.036	0.53	27.7	13.6	2.07	5550	103.5	0.02	3.2	243
557782		15.60	6.68	0.18	1.2	0.914	0.081	0.96	29.4	15.2	1.47	2300	127.5	0.05	3.5	300
557783		11.75	10.85	0.19	2.1	0.982	0.086	1.69	32.6	20.7	1.00	1180	91.6	0.08	5.2	241
557784		14.05	8.27	0.18	1.5	1.855	0.068	1.28	24.5	17.1	0.46	447	124.5	0.05	3.4	351
557785		13.40	6.17	0.19	1.3	0.793	0.052	0.94	32.7	13.0	0.90	1500	150.5	0.06	2.5	353
557786		15.45	7.04	0.21	1.3	1.145	0.045	1.04	30.1	14.6	0.82	1220	141.5	0.07	3.5	328
557787		16.60	9.65	0.26	1.5	2.55	0.080	1.51	28.2	20.2	0.63	476	142.5	0.07	4.4	380
557788		15.75	7.47	0.21	1.2	2.36	0.088	1.15	28.0	14.8	0.64	613	150.5	0.03	2.9	388
557789		6.91	19.25	0.10	3.5	0.027	0.066	0.84	20.7	13.7	2.71	868	2.52	1.63	20.1	138.0
557790		14.70	7.17	0.19	1.3	2.01	0.094	1.12	26.2	13.1	0.78	913	159.0	0.04	3.1	409
557791		13.35	9.35	0.17	1.6	2.04	0.117	1.49	31.0	18.6	0.95	810	148.0	0.06	5.5	375
557792		14.70	9.12	0.17	1.4	0.897	0.096	1.33	28.9	15.1	1.24	1400	103.5	0.12	4.1	236
557793		9.82	21.2	0.15	5.0	0.349	0.072	3.33	45.2	26.1	1.04	463	23.0	0.16	16.6	119.0
557794		12.15	8.98	0.15	1.8	0.406	0.050	1.41	25.1	14.0	2.13	2390	76.0	0.07	3.7	205
557795		15.20	11.85	0.18	1.9	0.566	0.048	1.81	31.0	20.7	0.69	455	98.0	0.12	4.4	243
557796		0.10	0.21	0.09	<0.1	<0.005	<0.005	0.01	1.1	1.0	1.16	85	0.16	0.02	0.1	0.6
557797		7.35	9.06	0.15	2.2	0.706	0.064	1.26	30.6	17.3	1.28	1020	56.0	0.07	2.6	152.5
557798		4.10	17.05	0.13	3.6	0.177	0.098	2.62	36.0	44.8	1.03	240	2.20	0.11	4.1	46.8
557799		13.25	13.05	0.14	2.6	0.153	0.068	1.66	32.1	36.4	1.73	1060	6.75	0.06	2.1	70.7
557800		13.00	13.00	0.15	2.5	0.195	0.067	2.09	31.7	29.3	1.52	1200	7.03	0.06	2.0	64.2



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18211354**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
557781		3750	36.2	27.7	0.065	8.61	4.54	3.9	18	0.6	96.1	0.18	0.40	2.18	0.043	1.47
557782		1710	58.5	41.9	0.094	>10.0	8.53	5.4	21	0.8	73.7	0.21	0.53	3.46	0.066	2.61
557783		1730	40.4	63.5	0.069	8.33	4.31	7.6	20	1.3	66.2	0.31	0.32	4.09	0.097	3.55
557784		1280	90.1	51.1	0.109	>10.0	17.45	7.0	24	1.0	28.2	0.23	0.78	3.71	0.070	3.94
557785		2830	38.3	37.9	0.105	8.00	1.80	4.7	28	0.8	52.0	0.16	0.10	3.17	0.051	2.28
557786		1920	78.6	42.6	0.081	>10.0	8.91	5.9	27	0.8	46.2	0.21	0.62	3.31	0.067	2.97
557787		840	128.5	59.4	0.132	>10.0	24.6	7.9	22	1.1	33.1	0.31	0.91	4.52	0.073	5.30
557788		1190	120.0	47.1	0.119	>10.0	20.6	6.3	24	0.9	37.0	0.21	0.73	3.53	0.061	4.29
557789		1080	13.9	30.1	<0.002	0.03	1.04	19.2	1	1.7	332	1.06	<0.05	4.43	0.862	0.19
557790		1380	102.5	45.2	0.110	>10.0	14.70	5.9	23	0.8	46.2	0.20	0.63	3.40	0.064	3.89
557791		1200	87.8	56.3	0.137	>10.0	12.65	8.5	22	1.3	46.1	0.35	0.59	4.24	0.125	4.36
557792		1110	57.6	48.0	0.069	>10.0	6.84	7.5	16	1.1	64.9	0.26	0.45	3.67	0.079	3.22
557793		520	23.9	94.4	0.022	7.00	2.85	17.6	5	2.2	57.3	0.95	0.29	6.74	0.254	5.72
557794		1670	42.3	46.6	0.045	7.58	4.65	7.5	13	1.0	94.4	0.25	0.28	3.07	0.096	2.64
557795		670	57.9	67.7	0.060	>10.0	6.39	9.7	20	1.3	34.2	0.29	0.54	4.39	0.085	3.66
557796		50	<0.5	0.3	<0.002	<0.01	<0.05	0.2	2	<0.2	78.7	<0.05	<0.05	0.06	<0.005	<0.02
557797		1690	30.9	50.5	0.056	4.08	2.98	5.6	14	1.1	74.7	0.17	0.15	5.23	0.057	2.40
557798		540	9.7	99.4	0.006	2.14	0.39	11.5	4	2.4	32.7	0.28	0.14	10.35	0.122	3.81
557799		2550	17.8	71.0	0.024	5.87	1.97	9.5	8	1.6	64.0	0.13	0.36	8.33	0.073	2.32
557800		2580	16.5	88.2	0.022	5.89	1.90	9.4	7	1.8	76.6	0.13	0.29	8.15	0.087	2.55



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18211354**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
557781		41.4	840	1.5	31.4	1240	39.7
557782		56.0	1160	2.9	26.3	2370	51.7
557783		46.1	859	2.3	26.8	2210	85.5
557784		55.4	1240	2.6	25.1	3220	64.1
557785		66.7	1280	2.4	29.6	2730	57.0
557786		59.6	1180	2.6	28.2	2050	55.9
557787		56.4	1480	3.1	18.9	3410	61.1
557788		59.6	1400	2.9	21.1	3240	52.2
557789		1.1	141	1.9	19.1	125	145.0
557790		58.3	1440	3.0	26.5	2770	55.9
557791		55.4	1720	4.0	27.4	3160	69.2
557792		40.6	755	2.2	20.6	1740	60.5
557793		16.2	208	1.6	15.9	473	200
557794		29.6	647	1.7	17.6	744	68.1
557795		36.6	689	2.1	16.8	1200	74.8
557796		0.4	2	<0.1	1.9	4	1.4
557797		37.3	650	1.1	21.3	2560	78.2
557798		3.5	234	1.3	10.0	437	122.5
557799		10.3	282	0.6	16.7	323	91.3
557800		11.3	308	0.8	14.3	329	88.2





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Page: 1  
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## CERTIFICAT VO18211359

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-036

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18211359**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555461		3.20	<0.001	0.05	0.79	7.6	40	0.55	0.02	1.07	0.26	10.60	13.0	21	3.48	12.3
555462		2.54	<0.001	0.04	0.86	0.2	50	0.49	0.02	0.44	0.24	11.15	10.4	25	3.97	13.4
555463		2.33	<0.001	0.05	1.16	0.2	70	0.73	0.02	1.29	0.39	16.80	11.5	28	2.27	16.0
555464		2.69	<0.001	0.07	1.86	0.3	80	1.22	0.05	0.88	0.49	21.5	16.0	46	1.21	17.8
555465		3.26	<0.001	0.08	1.56	0.3	60	0.91	0.08	0.84	0.45	17.10	12.4	39	0.97	17.3
555466		0.30	<0.001	<0.01	0.06	<0.2	10	0.07	0.02	32.7	<0.02	0.95	1.3	1	<0.05	1.0
555467		1.99	<0.001	0.43	0.33	3.1	10	0.18	0.13	7.12	0.25	18.70	8.4	20	0.10	42.7
555468		3.40	<0.001	0.04	0.03	0.7	<10	0.18	0.01	2.49	0.05	9.50	1.8	15	<0.05	4.2
555469		1.29	<0.001	0.03	0.02	1.6	<10	0.14	0.02	1.48	0.03	6.23	1.2	10	<0.05	1.8
555470		2.43	<0.001	0.02	0.08	0.8	<10	0.26	0.02	3.87	0.05	11.45	2.4	23	<0.05	2.3
555471		2.35	<0.001	0.02	0.05	0.8	<10	0.18	0.02	2.45	0.04	5.64	1.5	12	<0.05	1.3
555472		2.23	<0.001	0.02	0.09	1.4	<10	0.27	0.02	2.30	0.03	6.20	1.7	12	<0.05	1.0
555473		2.29	<0.001	0.02	0.18	2.7	10	1.22	0.02	1.91	0.02	10.25	4.1	14	0.08	2.3
555474		2.38	<0.001	0.06	0.59	16.3	30	0.93	0.02	4.92	0.06	12.85	7.3	17	0.35	4.6
555475		2.19	<0.001	0.04	0.44	2.3	20	0.68	0.02	2.40	0.03	9.08	5.3	17	0.31	6.0
555476		2.43	<0.001	0.03	0.93	2.3	10	1.39	0.04	1.51	0.05	16.95	8.7	27	0.09	11.7
555477		2.34	<0.001	0.04	0.70	3.1	10	0.88	0.03	1.82	0.06	11.35	6.8	22	0.14	7.4
555478		2.35	<0.001	0.05	0.75	3.0	10	1.20	0.03	2.56	0.07	12.55	8.8	20	0.51	10.2
555479		0.07	0.669	0.23	7.13	20.4	320	1.45	0.15	4.38	0.18	49.3	43.4	186	1.93	54.5
555480		2.35	<0.001	0.03	0.62	0.6	10	0.60	0.02	1.77	0.10	11.15	8.2	16	0.16	6.6



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 13-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211359**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555461		20.3	3.34	0.09	0.4	0.008	0.017	0.40	5.8	9.0	2.91	15150	1.11	0.01	4.0	14.7
555462		21.7	3.62	0.10	0.4	<0.005	0.014	0.38	6.1	10.6	3.01	15100	1.08	0.01	3.9	12.8
555463		21.6	5.17	0.12	0.6	<0.005	0.021	0.57	8.4	10.2	2.72	23000	1.17	0.01	5.0	16.7
555464		23.5	9.16	0.13	1.1	<0.005	0.032	0.95	11.9	13.4	2.75	33800	1.29	0.05	8.6	32.1
555465		18.85	7.46	0.09	0.9	0.005	0.028	0.80	9.0	9.1	2.30	27500	1.02	0.02	6.3	23.2
555466		0.23	0.15	<0.05	<0.1	<0.005	0.005	0.01	1.1	0.8	1.31	221	<0.05	0.03	0.1	<0.2
555467		11.40	1.54	0.07	0.4	0.018	0.025	0.03	10.1	6.2	3.95	3550	3.20	<0.01	3.1	35.6
555468		14.95	0.22	0.07	<0.1	0.006	0.006	<0.01	5.8	0.8	3.24	2670	0.24	<0.01	0.4	6.5
555469		14.25	0.16	0.06	<0.1	0.006	<0.005	<0.01	3.9	0.6	2.70	2140	0.18	<0.01	0.3	6.7
555470		15.05	0.70	0.07	0.2	0.005	<0.005	<0.01	6.7	2.4	3.80	2680	0.42	<0.01	1.4	12.3
555471		12.75	0.32	0.05	<0.1	0.006	<0.005	<0.01	3.6	1.5	2.82	2220	0.39	<0.01	0.4	4.7
555472		14.25	0.72	0.06	0.1	<0.005	<0.005	<0.01	3.8	2.3	2.96	2540	0.29	0.01	0.7	3.9
555473		17.85	1.17	0.09	0.2	0.007	0.005	0.03	6.4	3.6	3.08	5820	0.53	0.02	1.1	6.6
555474		19.90	3.60	0.10	0.5	0.005	0.018	0.19	6.8	9.3	3.74	11550	0.74	0.01	4.1	8.5
555475		15.55	2.33	0.08	0.3	<0.005	0.011	0.18	4.8	6.3	2.38	9080	0.39	0.01	3.2	6.8
555476		21.6	4.61	0.10	0.7	<0.005	0.019	0.03	8.8	12.3	2.82	15200	0.56	0.02	6.2	14.6
555477		16.35	3.75	0.07	0.5	0.007	0.012	0.04	6.1	8.2	2.30	14150	0.50	<0.01	4.6	9.6
555478		19.25	3.92	0.10	0.6	0.005	0.011	0.05	6.8	8.3	2.88	16700	0.73	<0.01	5.1	13.6
555479		7.22	18.85	0.11	3.6	0.028	0.062	0.87	22.1	13.7	2.84	939	2.36	1.69	19.5	140.5
555480		19.85	3.55	0.10	0.4	<0.005	0.013	0.09	6.1	5.4	2.29	26800	0.68	<0.01	3.6	10.8





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18211359**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555461		340	3.1	22.2	<0.002	0.23	0.30	2.1	1	0.3	111.5	0.21	<0.05	0.63	0.078	0.12
555462		380	1.4	22.3	<0.002	0.27	0.12	2.5	1	0.2	37.5	0.22	<0.05	0.64	0.084	0.12
555463		1450	2.6	25.7	<0.002	0.33	0.12	3.9	1	0.4	146.0	0.30	<0.05	1.00	0.117	0.11
555464		860	5.9	35.1	0.002	0.39	0.17	6.7	1	0.5	90.3	0.48	<0.05	1.76	0.205	0.10
555465		660	13.4	24.9	0.002	0.44	0.16	5.3	1	0.4	90.3	0.40	<0.05	1.36	0.169	0.07
555466		60	<0.5	0.3	<0.002	<0.01	0.10	0.2	1	<0.2	79.4	<0.05	<0.05	0.06	0.005	<0.02
555467		650	5.9	1.0	0.003	2.73	0.62	1.7	2	<0.2	137.5	0.15	0.24	0.74	0.026	0.05
555468		310	0.7	0.1	<0.002	0.42	0.12	0.2	<1	<0.2	35.5	<0.05	<0.05	0.09	<0.005	<0.02
555469		190	0.7	<0.1	<0.002	0.27	0.15	0.1	<1	<0.2	14.5	<0.05	<0.05	0.05	<0.005	<0.02
555470		290	1.3	0.1	<0.002	0.16	0.17	0.4	1	<0.2	46.5	0.07	<0.05	0.39	0.016	<0.02
555471		180	0.9	0.1	<0.002	0.17	0.15	0.1	1	<0.2	33.5	<0.05	<0.05	0.09	<0.005	<0.02
555472		180	1.2	0.1	<0.002	0.17	0.13	0.2	1	<0.2	22.6	0.05	<0.05	0.17	<0.005	<0.02
555473		310	1.6	1.9	<0.002	0.13	0.12	0.5	1	<0.2	17.8	0.05	<0.05	0.27	0.015	0.03
555474		470	1.7	8.2	0.002	0.09	0.11	1.5	1	0.2	55.1	0.26	<0.05	0.83	0.063	0.08
555475		350	1.3	7.2	<0.002	0.11	0.10	1.4	1	0.2	28.2	0.19	<0.05	0.51	0.058	0.06
555476		610	3.9	1.0	<0.002	0.21	0.15	3.1	1	0.2	26.5	0.38	0.05	1.01	0.138	<0.02
555477		430	1.4	1.8	<0.002	0.13	0.12	2.1	1	0.2	31.9	0.27	<0.05	0.75	0.077	0.02
555478		500	2.1	3.0	<0.002	0.18	0.12	2.2	1	0.2	57.3	0.28	0.05	0.78	0.102	0.04
555479		1110	13.9	40.0	<0.002	0.02	1.03	19.2	<1	1.7	338	1.15	<0.05	5.03	0.892	0.19
555480		510	1.6	3.1	<0.002	0.09	0.11	2.2	1	0.2	72.0	0.19	<0.05	0.60	0.074	0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 13-SEPT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18211359**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555461		0.4	58	0.1	4.9	34	18.9
555462		0.4	64	0.3	4.1	33	19.9
555463		0.7	97	0.1	9.8	42	28.1
555464		1.4	177	0.2	8.5	60	48.3
555465		1.0	142	0.2	6.2	51	38.2
555466		0.1	1	0.1	2.2	3	1.4
555467		1.4	25	0.4	8.0	33	17.0
555468		0.2	4	0.1	4.6	10	2.3
555469		0.1	4	0.1	3.1	7	1.3
555470		0.2	10	0.2	5.5	11	9.0
555471		0.3	7	0.1	3.9	8	2.4
555472		0.2	9	0.1	4.1	7	4.8
555473		0.5	16	0.2	5.5	8	9.7
555474		0.4	53	1.7	6.7	14	21.9
555475		0.3	38	0.7	4.7	12	14.0
555476		0.7	89	0.5	7.0	18	31.2
555477		0.5	64	0.3	5.5	13	22.5
555478		0.5	65	0.4	6.0	14	25.5
555479		1.1	143	2.1	20.2	128	147.5
555480		0.3	57	0.2	5.6	16	18.5





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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 13-SEPT-2018  
Compte: MINVIR

## CERTIFICAT VO18211361

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Bon de commande #: KANDH18-PRIORITY-037

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211361**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555481		1.98	<0.001	0.04	0.40	3.2	20	0.50	0.02	0.93	0.16	8.91	6.9	21	0.16	5.1
555482		2.77	<0.001	0.04	0.90	2.4	40	1.14	0.03	1.37	0.14	16.10	9.6	27	0.65	9.3
555483		2.60	<0.001	0.03	0.87	1.0	40	1.43	0.03	3.36	0.05	16.45	8.3	25	0.62	9.7
555484		2.59	<0.001	0.02	0.62	6.8	20	0.87	0.03	1.62	0.03	12.10	7.4	22	0.50	9.2
555485		2.34	<0.001	0.02	0.59	8.3	40	1.06	0.02	2.56	0.03	13.25	6.9	24	0.53	6.9
555486		0.29	<0.001	<0.01	0.10	0.2	20	0.07	0.01	31.8	0.02	0.90	0.8	2	<0.05	1.0
555487		2.57	<0.001	0.04	0.62	1.7	40	1.26	0.02	1.98	0.02	13.55	7.5	25	0.36	8.6
555488		2.44	<0.001	0.02	0.64	1.9	50	1.39	0.02	2.15	<0.02	13.75	7.0	18	0.51	4.7
555489		2.57	<0.001	0.01	0.41	4.0	20	0.90	0.02	4.19	0.04	13.45	7.4	14	0.17	4.3
555490		2.34	<0.001	0.01	0.13	0.2	<10	0.26	0.01	3.30	0.04	6.61	1.6	12	0.07	2.6
555491		3.22	<0.001	0.06	0.12	11.6	<10	0.33	0.02	8.73	0.09	18.25	3.6	12	0.13	6.7
555492		2.78	0.004	0.28	2.53	8.8	90	1.62	0.13	4.94	1.16	56.7	11.2	32	3.54	49.4
555493		3.99	0.003	0.30	6.21	2.0	170	3.01	0.20	3.66	4.72	134.0	14.9	58	5.39	43.1
555494		2.72	<0.001	0.08	0.19	13.2	10	0.28	0.03	4.14	0.10	14.80	5.6	30	0.46	15.0
555495		3.67	<0.001	0.07	0.03	6.7	<10	0.21	0.01	0.67	<0.02	4.36	1.6	22	0.05	1.8
555496		2.41	<0.001	0.01	0.81	39.7	60	1.13	0.02	15.15	0.06	28.6	13.2	123	2.12	5.6
555497		2.72	<0.001	0.03	0.17	0.7	10	0.37	0.02	11.25	0.06	6.60	2.6	9	0.26	3.7
555498		2.59	<0.001	0.03	0.31	2.1	20	0.70	0.03	2.25	0.03	9.41	7.7	13	0.14	4.6
555499		0.07	2.54	0.42	6.66	11.7	310	1.17	0.17	4.75	0.08	41.4	53.5	305	0.65	82.6
555500		2.60	0.001	0.06	0.66	3.9	40	1.22	0.04	2.31	0.07	15.90	9.6	23	0.51	10.7



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 13-SEPT-2018  
 Compte: MINVIR

Projet: Kan

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555481		14.80	2.53	0.07	0.3	<0.005	0.008	0.16	4.8	2.3	1.41	25100	0.51	0.01	2.4	8.6
555482		20.2	4.86	0.11	0.6	<0.005	0.015	0.31	8.2	8.4	2.50	23400	0.58	0.01	5.9	14.7
555483		20.1	4.67	0.09	0.7	<0.005	0.017	0.24	8.4	10.5	3.18	18950	0.63	0.01	6.2	13.8
555484		21.8	3.70	0.09	0.5	0.010	0.014	0.12	6.6	7.1	2.89	14500	0.39	<0.01	4.6	10.8
555485		16.50	3.29	0.08	0.5	<0.005	0.015	0.25	6.9	8.2	2.45	10800	0.48	0.01	4.2	9.9
555486		0.25	0.26	<0.05	0.1	<0.005	<0.005	0.01	1.0	1.1	1.57	197	<0.05	0.05	0.1	<0.2
555487		19.70	3.36	0.09	0.6	<0.005	0.017	0.22	6.8	7.6	2.68	11400	0.58	<0.01	4.6	9.7
555488		20.0	3.63	0.09	0.6	<0.005	0.013	0.27	7.0	8.3	2.78	11750	0.58	<0.01	5.9	8.7
555489		18.80	2.54	0.09	0.4	<0.005	0.011	0.09	7.3	5.7	3.29	9080	0.73	0.01	3.8	9.3
555490		15.40	0.93	0.07	<0.1	0.014	<0.005	0.02	4.0	2.1	3.52	3020	0.24	0.02	0.4	5.2
555491		14.30	0.89	0.08	0.1	0.012	0.005	0.03	10.6	2.6	5.25	3100	0.72	<0.01	2.8	11.1
555492		9.04	11.55	0.12	6.4	0.081	0.056	1.32	28.3	20.9	2.49	2150	10.10	0.13	47.6	36.0
555493		8.54	24.8	0.21	16.7	0.176	0.111	2.76	63.6	39.9	1.89	1340	14.05	1.08	102.0	48.0
555494		15.55	1.45	0.08	0.5	0.019	0.023	0.11	8.2	3.1	3.91	2970	0.61	0.01	4.3	19.6
555495		13.10	0.33	0.07	<0.1	0.005	<0.005	0.01	2.6	0.7	2.29	2130	0.38	<0.01	0.4	4.1
555496		8.77	3.68	0.07	0.6	0.025	0.009	0.39	19.1	19.5	6.73	2740	2.23	0.02	8.0	38.6
555497		15.00	1.23	<0.05	0.1	0.009	0.007	0.02	3.9	4.7	5.65	4830	0.51	<0.01	0.6	6.9
555498		21.9	1.72	0.07	0.3	0.005	0.008	0.08	5.1	5.1	3.07	10750	0.73	<0.01	2.4	10.6
555499		7.60	18.50	0.09	3.4	0.057	0.059	0.97	21.2	8.8	5.58	1060	2.97	2.03	28.2	351
555500		21.7	3.50	0.08	0.6	<0.005	0.020	0.32	8.3	12.7	3.06	13250	0.74	0.01	5.5	12.3



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211361**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555481		450	1.0	4.5	<0.002	0.08	0.12	1.5	<1	0.2	77.8	0.13	<0.05	0.42	0.053	0.02
555482		610	1.5	10.7	<0.002	0.22	0.18	2.9	<1	0.3	53.0	0.32	0.05	0.95	0.121	0.07
555483		540	1.9	8.4	<0.002	0.17	0.15	2.8	1	0.3	71.3	0.34	<0.05	1.02	0.118	0.07
555484		490	1.4	5.0	<0.002	0.16	0.15	2.0	1	0.2	29.2	0.28	<0.05	0.70	0.100	0.06
555485		400	1.4	8.6	<0.002	0.14	0.15	1.9	1	0.3	42.0	0.24	<0.05	0.77	0.077	0.09
555486		80	<0.5	0.3	<0.002	<0.01	0.11	0.4	1	<0.2	76.3	<0.05	<0.05	0.07	0.010	<0.02
555487		410	1.4	7.3	<0.002	0.21	0.13	1.8	<1	0.4	35.1	0.27	<0.05	0.92	0.074	0.07
555488		370	1.3	9.9	<0.002	0.16	0.12	1.7	1	0.4	36.3	0.36	<0.05	0.93	0.080	0.12
555489		540	1.5	3.4	<0.002	0.20	0.13	1.2	1	0.2	64.7	0.21	<0.05	0.72	0.051	0.05
555490		180	1.3	0.6	<0.002	0.11	0.11	0.3	<1	<0.2	64.6	<0.05	<0.05	0.10	0.005	<0.02
555491		380	3.9	1.4	<0.002	0.48	0.20	0.6	1	<0.2	132.5	0.17	<0.05	0.30	0.027	0.03
555492		580	26.3	46.3	0.008	3.10	0.88	5.3	2	2.6	147.0	2.49	0.24	5.62	0.119	0.77
555493		480	74.0	83.3	0.013	3.70	0.89	9.3	3	6.1	101.0	6.41	0.32	15.50	0.179	1.19
555494		490	2.5	5.1	<0.002	1.22	0.18	0.8	1	0.2	66.6	0.24	0.08	0.70	0.060	0.10
555495		230	0.6	0.5	<0.002	0.21	0.10	0.1	1	<0.2	7.5	<0.05	<0.05	0.06	<0.005	0.02
555496		900	2.6	19.4	0.003	0.08	0.13	2.8	1	0.4	120.0	0.48	<0.05	1.94	0.169	0.26
555497		130	3.5	2.1	<0.002	0.01	0.30	0.6	1	<0.2	114.0	<0.05	<0.05	0.20	0.013	0.03
555498		400	1.3	3.5	<0.002	0.13	0.12	1.0	1	<0.2	32.1	0.12	<0.05	0.40	0.040	0.03
555499		1840	4.6	31.2	<0.002	0.03	0.39	22.2	1	1.3	461	1.67	0.08	2.68	1.045	0.06
555500		580	1.9	12.6	<0.002	0.17	0.15	2.1	1	0.4	35.6	0.35	0.05	1.06	0.097	0.08



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 13-SEPT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18211361**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555481		0.2	40	0.2	4.0	14	12.2
555482		0.6	83	0.4	6.2	24	28.8
555483		0.7	81	0.7	7.5	14	33.3
555484		0.4	56	0.6	5.9	11	22.3
555485		0.4	52	0.8	5.2	11	20.3
555486		0.2	3	<0.1	1.9	3	1.8
555487		0.5	52	0.8	6.2	11	24.9
555488		0.5	53	0.6	6.3	10	25.4
555489		0.4	33	0.5	6.6	10	18.6
555490		0.1	9	0.1	4.4	11	2.2
555491		0.7	12	0.4	9.5	18	6.6
555492		4.6	77	1.1	27.5	127	252
555493		9.7	125	1.5	43.4	436	>500
555494		0.4	16	0.4	8.2	37	20.3
555495		0.1	4	0.2	3.2	5	2.1
555496		1.5	41	0.6	17.2	9	22.1
555497		0.1	13	0.4	9.1	9	5.2
555498		0.3	26	0.4	5.6	7	11.7
555499		0.6	142	3.2	21.3	100	144.5
555500		0.5	57	0.8	7.2	20	30.5





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **13-SEPT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211361**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada

Applique à la Méthode:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applique à la Méthode:	Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 16-SEPT-2018  
Compte: MINVIR

## CERTIFICAT VO18211363

Projet: Kan

Bon de commande #: KANDH18-082

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211363**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557621		3.11	0.023	1.40	5.89	102.0	130	1.77	0.26	1.76	8.65	63.2	29.5	87	3.72	134.0
557622		3.92	0.003	0.42	4.05	27.2	200	1.63	0.22	4.12	1.04	57.2	14.3	45	2.12	113.0
557623		5.24	0.003	0.54	3.51	50.6	180	2.08	0.31	2.25	1.00	54.5	22.4	41	1.86	117.0
557624		3.26	0.016	1.58	2.88	30.6	160	2.16	0.31	1.37	19.65	56.6	21.8	66	2.70	337
557625		3.94	0.025	2.60	2.78	38.8	150	1.99	0.43	1.98	16.70	53.9	22.5	52	3.27	384
557626		3.22	0.010	1.53	2.29	71.9	30	0.57	0.23	2.89	0.23	38.7	38.9	28	0.34	464
557627		4.84	0.007	1.37	4.00	327	190	6.33	0.26	2.23	0.17	61.2	15.9	45	1.49	435
557628		4.54	0.016	1.33	2.60	33.1	150	1.96	0.31	1.19	17.25	52.4	16.0	62	2.73	345
557629		0.07	2.54	0.46	6.72	11.7	310	1.23	0.15	4.61	0.09	43.8	52.2	304	0.68	84.3
557630		4.35	0.028	1.73	2.49	62.9	110	1.47	0.39	1.78	17.50	62.2	24.8	58	3.50	467
557631		4.21	0.026	1.50	2.41	115.5	110	1.44	0.36	0.78	17.25	58.3	26.3	63	4.39	271
557632		4.60	0.027	1.39	3.23	122.0	120	1.43	0.32	2.38	9.14	45.9	18.5	59	3.51	257
557633		4.82	0.030	1.42	5.39	168.5	100	2.12	0.29	1.03	7.82	58.6	20.1	70	3.97	302
557634		5.03	0.041	1.66	5.30	216	90	1.71	0.32	0.89	8.06	55.8	21.0	70	3.83	194.0
557635		4.76	0.034	1.31	5.66	195.0	140	1.53	0.29	2.20	7.10	57.9	20.5	70	4.02	126.5
557636		0.35	0.001	<0.01	0.18	0.5	10	0.07	0.01	31.6	0.02	1.20	1.1	3	<0.05	4.5
557637		4.55	0.052	1.97	3.60	165.5	110	0.95	0.33	1.82	7.46	45.4	20.8	59	3.74	178.0
557638		4.91	0.050	1.94	4.99	223	100	1.25	0.52	1.04	7.45	56.0	24.4	66	4.00	104.0
557639		5.05	0.009	0.87	8.43	78.4	200	1.73	0.23	1.59	4.38	69.1	24.8	93	5.99	98.4
557640		4.64	0.017	0.95	8.43	84.8	190	1.79	0.32	0.54	3.10	62.5	29.8	90	5.61	102.0



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211363**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557621		11.65	15.40	0.17	3.5	0.853	0.122	2.54	34.3	21.7	1.17	611	33.6	0.11	8.6	175.0
557622		9.78	11.20	0.12	2.2	0.078	0.062	1.53	25.5	32.0	2.47	2070	5.70	0.09	3.2	55.6
557623		16.10	9.85	0.12	1.9	0.059	0.059	1.34	25.3	29.3	2.08	2240	4.05	0.07	2.6	41.0
557624		9.56	8.23	0.17	1.9	1.185	0.066	1.31	30.2	21.5	0.87	917	83.1	0.04	2.2	141.5
557625		15.10	7.35	0.18	1.9	0.877	0.067	1.21	32.5	24.6	1.25	1590	127.0	0.04	3.4	240
557626		21.3	5.99	0.14	1.2	0.102	0.011	0.16	18.7	37.0	3.21	3820	2.63	0.01	1.2	212
557627		17.85	11.00	0.14	2.5	0.068	0.029	1.07	27.8	45.5	2.61	2650	4.56	0.04	2.4	157.0
557628		9.50	7.26	0.15	1.9	0.748	0.061	1.08	31.1	22.5	0.78	991	103.0	0.03	2.4	197.5
557629		7.24	17.55	0.11	3.3	0.057	0.055	0.95	21.8	8.8	5.37	1010	3.05	1.94	28.7	342
557630		14.30	7.08	0.20	2.8	0.822	0.074	0.90	38.4	21.4	1.06	1460	191.0	0.03	7.8	395
557631		11.40	7.26	0.17	2.7	1.105	0.099	0.95	36.3	18.6	0.56	497	202	0.03	7.6	321
557632		14.00	8.42	0.15	1.7	1.065	0.086	1.30	27.5	18.0	1.24	933	118.0	0.06	6.5	253
557633		16.65	14.10	0.19	2.0	1.330	0.109	2.19	33.8	26.2	0.76	293	41.6	0.11	6.7	182.5
557634		17.30	13.25	0.20	1.7	1.490	0.114	2.25	32.0	22.4	0.63	222	37.3	0.11	5.4	188.5
557635		15.80	14.50	0.18	2.3	1.155	0.118	2.28	33.8	23.1	1.23	440	35.8	0.29	7.1	185.0
557636		0.18	0.48	0.07	0.1	0.006	<0.005	0.01	1.2	1.1	1.30	88	0.18	0.09	0.2	1.0
557637		14.80	9.57	0.16	1.7	1.165	0.166	1.51	28.2	15.4	0.93	423	115.5	0.08	6.4	237
557638		17.65	13.10	0.20	1.9	1.430	0.124	2.00	32.5	18.4	0.68	192	49.3	0.15	5.7	185.5
557639		10.85	21.9	0.15	4.6	0.524	0.116	3.32	38.9	28.9	1.17	281	16.80	0.51	12.4	108.0
557640		10.85	22.4	0.16	3.8	0.494	0.088	3.15	35.4	23.9	0.60	104	16.50	0.94	9.2	113.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18211363**

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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557621		800	37.9	76.1	0.035	9.72	5.52	12.5	11	1.7	55.6	0.53	0.42	5.44	0.185	4.50
557622		1190	6.4	64.1	0.008	2.86	0.53	7.9	4	1.5	93.2	0.21	0.16	6.97	0.082	2.45
557623		2640	9.9	75.5	0.013	3.72	0.84	7.1	5	1.7	66.8	0.16	0.21	6.16	0.059	2.92
557624		2050	43.8	52.5	0.068	6.33	4.66	5.3	19	1.2	49.6	0.14	0.45	4.64	0.054	1.97
557625		2280	90.7	50.7	0.073	8.50	8.16	6.0	22	1.1	65.5	0.22	0.58	4.56	0.064	2.12
557626		3190	26.1	6.5	0.008	>10.0	3.77	3.8	6	0.3	80.7	0.08	0.39	4.23	0.027	0.34
557627		2910	21.7	42.9	0.014	7.71	2.93	7.3	6	1.3	69.0	0.12	0.31	7.31	0.050	1.52
557628		2420	46.5	42.2	0.080	6.09	4.11	5.0	18	1.1	37.7	0.17	0.35	4.36	0.054	1.86
557629		1820	4.6	31.1	<0.002	0.04	0.28	20.9	1	1.3	470	1.64	0.11	2.78	1.035	0.06
557630		2790	78.0	37.6	0.097	9.45	7.33	5.3	24	1.1	41.1	0.70	0.60	4.46	0.060	2.09
557631		1680	64.7	42.9	0.103	9.03	8.57	5.8	16	1.2	27.2	0.67	0.69	4.82	0.059	2.62
557632		1150	68.3	46.1	0.068	>10.0	7.19	7.2	14	1.1	51.0	0.42	0.53	3.84	0.080	2.87
557633		530	80.6	70.1	0.042	>10.0	8.09	10.2	14	1.3	39.6	0.38	0.55	5.15	0.120	4.21
557634		470	101.5	69.5	0.040	>10.0	10.45	10.6	12	1.3	33.4	0.32	0.61	4.63	0.122	4.66
557635		380	80.8	70.0	0.037	>10.0	8.22	10.3	11	1.5	61.1	0.46	0.57	5.10	0.136	4.23
557636		80	<0.5	0.2	<0.002	0.04	<0.05	1.0	2	<0.2	76.7	<0.05	<0.05	0.10	0.020	<0.02
557637		830	86.2	51.9	0.064	>10.0	8.02	7.8	12	1.3	52.4	0.41	0.57	4.05	0.091	3.51
557638		500	111.0	61.3	0.044	>10.0	11.25	8.6	12	1.3	44.0	0.38	0.77	4.92	0.106	4.08
557639		270	39.8	85.1	0.018	8.66	3.62	17.7	5	2.3	78.7	0.72	0.42	6.09	0.255	4.71
557640		240	52.8	82.8	0.016	9.76	4.19	17.2	4	2.1	78.0	0.56	0.64	5.38	0.260	4.53



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 16-SEPT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211363**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
557621		19.9	380	1.6	17.6	1500	132.5
557622		5.2	217	0.7	11.3	237	77.6
557623		6.3	185	0.4	14.3	219	67.4
557624		45.2	873	1.2	27.6	3050	72.3
557625		53.9	1060	2.3	28.1	2200	71.9
557626		3.6	111	0.2	11.4	128	42.7
557627		7.2	182	0.5	13.8	123	81.3
557628		53.2	1060	1.5	30.9	2610	72.6
557629		0.6	145	3.1	20.7	105	139.5
557630		71.2	1540	2.7	36.6	2660	107.0
557631		74.2	1560	3.2	34.0	2560	113.0
557632		44.8	854	2.2	23.1	1560	70.6
557633		22.8	379	1.3	13.9	1390	80.7
557634		20.7	360	1.3	12.5	1530	66.9
557635		20.6	335	1.2	12.1	1400	86.9
557636		0.2	7	<0.1	2.5	5	3.1
557637		42.4	856	2.5	23.3	1640	70.6
557638		22.7	425	1.3	13.6	1570	74.6
557639		13.5	203	1.3	12.8	923	167.5
557640		14.1	202	1.1	11.1	609	141.5





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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 16-SEPT-2018  
Compte: MINVIR

## CERTIFICAT VO18211367

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Bon de commande #: KANDH18-083

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211367**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557641		4.75	0.011	1.15	8.46	61.3	190	1.78	0.26	0.75	2.81	59.9	25.3	100	5.36	127.5
557642		4.86	0.044	1.05	8.40	78.4	180	1.60	0.24	0.83	4.08	66.3	24.6	88	5.76	152.5
557643		4.94	0.023	1.05	7.15	84.2	180	1.57	0.20	2.61	4.71	63.7	20.3	74	5.62	122.0
557644		4.79	0.068	1.67	3.97	120.5	120	1.13	0.28	2.86	14.15	53.0	18.6	58	3.79	150.0
557645		4.96	0.064	1.99	3.99	160.0	100	1.16	0.33	1.66	6.87	45.6	32.7	56	3.61	153.5
557646		2.75	0.059	2.83	5.13	173.5	100	1.55	0.45	0.46	10.55	53.8	22.8	69	4.22	95.3
557647		4.93	0.057	2.37	5.50	92.7	110	1.73	0.50	0.65	20.5	60.8	27.5	71	4.39	232
557648		2.89	0.005	0.57	4.15	11.0	180	1.98	0.36	1.73	0.17	72.1	18.6	59	2.21	80.7
557649		0.07	7.63	1.34	5.90	35.6	300	1.10	0.50	2.79	0.08	31.5	41.6	304	0.67	113.0
557650		5.13	0.004	0.26	7.27	3.1	510	3.68	0.25	0.29	0.15	60.7	18.0	91	23.3	28.6
557651		4.82	0.002	0.33	7.23	35.2	430	2.91	0.18	0.40	0.18	53.8	19.3	104	20.7	53.0
557652		2.36	<0.001	0.04	0.70	2.8	20	0.57	0.01	1.42	0.29	11.50	6.9	20	0.31	5.9
557653		2.38	<0.001	0.03	0.54	3.7	10	0.47	0.02	3.81	0.14	8.77	7.9	20	0.93	5.4
557654		2.36	<0.001	0.06	0.50	291	10	0.51	0.02	2.42	0.09	8.90	12.5	14	1.15	6.4
557655		2.45	<0.001	0.02	0.79	1.7	10	0.82	0.03	2.73	0.11	13.00	8.5	20	1.77	8.6
557656		0.36	<0.001	<0.01	0.07	<0.2	20	<0.05	0.01	31.9	0.02	0.92	0.4	1	<0.05	0.7
557657		2.44	<0.001	0.02	0.69	36.1	10	0.94	0.03	1.83	0.05	11.55	9.1	20	0.73	11.2
557658		2.88	<0.001	0.04	1.00	2.6	10	1.17	0.02	1.93	0.06	18.15	10.7	26	0.74	12.9
557659		2.42	<0.001	0.03	0.62	1.3	30	1.03	0.02	1.30	0.04	10.70	6.6	20	0.13	7.9
557660		2.71	<0.001	0.03	1.18	12.3	30	3.08	0.04	1.21	0.03	19.05	10.8	31	0.22	15.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18211367**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
557641		11.10	20.7	0.15	3.5	0.333	0.086	3.21	34.4	26.0	0.74	142	12.20	0.70	6.5	127.0
557642		11.90	22.4	0.17	4.1	0.455	0.092	3.19	37.0	28.6	0.80	131	17.15	0.70	8.2	138.5
557643		11.00	19.50	0.15	3.8	0.413	0.089	3.01	36.3	23.6	1.41	330	19.80	0.24	7.9	149.5
557644		14.25	10.20	0.18	1.9	0.737	0.126	1.63	32.3	17.8	1.36	656	96.3	0.16	6.2	257
557645		17.25	10.65	0.17	1.6	0.670	0.064	1.53	27.0	19.8	1.01	407	68.5	0.08	4.2	254
557646		16.35	13.10	0.18	2.0	1.010	0.076	2.15	31.2	20.1	0.44	107	64.2	0.12	4.3	161.0
557647		18.25	14.60	0.22	2.2	0.779	0.129	2.34	34.9	22.5	0.54	143	53.3	0.12	4.0	199.0
557648		10.35	12.90	0.13	3.8	0.031	0.049	1.46	37.8	30.1	1.37	1210	24.4	0.07	8.2	70.5
557649		5.33	15.05	0.08	2.5	0.171	0.054	1.02	15.7	16.0	3.82	701	6.29	1.15	16.8	238
557650		10.45	19.45	0.11	1.9	<0.005	0.048	3.49	31.3	57.5	1.75	2550	1.91	0.19	7.2	41.2
557651		13.00	20.2	0.12	2.0	<0.005	0.050	3.31	28.4	52.1	1.85	2720	6.74	0.19	8.7	61.2
557652		16.60	3.32	0.05	0.5	<0.005	0.015	0.28	6.2	4.4	1.94	22800	0.39	0.01	4.0	10.4
557653		16.95	2.73	0.05	0.4	<0.005	0.011	0.07	4.8	5.8	2.69	19050	0.49	<0.01	3.8	11.1
557654		15.90	2.62	0.05	0.4	<0.005	0.010	0.08	4.9	5.7	2.36	15900	0.46	<0.01	3.9	11.8
557655		17.70	3.94	0.06	0.6	<0.005	0.014	0.10	6.8	9.1	2.77	16300	0.38	<0.01	4.9	12.7
557656		0.13	0.19	<0.05	0.1	<0.005	<0.005	0.01	1.1	1.0	1.38	105	<0.05	0.04	0.1	0.2
557657		17.10	3.72	0.05	0.5	0.008	0.012	0.04	6.3	7.7	2.37	13950	0.38	<0.01	4.8	13.1
557658		20.8	5.20	0.05	0.7	<0.005	0.025	0.04	9.0	10.2	2.83	18250	0.54	<0.01	6.5	17.6
557659		16.55	3.26	<0.05	0.5	<0.005	0.011	0.05	5.8	6.4	2.01	17250	0.46	0.03	4.1	10.7
557660		21.8	6.49	0.05	0.9	<0.005	0.031	0.04	9.3	10.8	2.73	19150	0.55	0.02	7.3	19.6



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18211367**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557641		240	58.3	80.7	0.013	8.99	3.35	17.1	4	1.8	80.5	0.41	0.46	5.00	0.233	4.20
557642		250	71.8	83.1	0.019	9.91	4.26	18.2	5	2.1	80.5	0.56	0.52	5.80	0.231	4.60
557643		200	127.0	84.6	0.019	9.15	4.50	14.0	5	2.1	93.3	0.54	0.48	5.99	0.186	4.53
557644		1280	203	52.3	0.061	>10.0	7.57	7.9	11	1.2	79.8	0.41	0.44	4.39	0.110	2.93
557645		470	329	50.8	0.046	>10.0	10.85	8.4	13	1.0	54.8	0.33	0.67	4.09	0.085	3.07
557646		390	558	64.7	0.050	>10.0	10.95	8.3	11	1.2	36.0	0.30	0.84	4.95	0.092	3.97
557647		440	492	72.5	0.051	>10.0	6.12	9.6	13	1.3	42.5	0.25	0.58	5.19	0.091	3.70
557648		930	17.7	43.2	0.015	5.42	1.61	11.9	5	1.2	55.6	0.47	0.33	4.11	0.145	1.61
557649		1050	9.7	38.6	<0.002	0.09	0.74	20.9	1	1.0	270	1.00	0.24	2.49	0.649	0.20
557650		390	20.4	155.5	0.003	1.06	0.42	11.8	1	1.3	64.5	0.54	0.10	8.40	0.254	1.04
557651		380	15.2	145.0	0.007	2.07	0.46	12.9	2	1.3	90.8	0.62	0.13	7.59	0.307	0.90
557652		520	1.9	7.3	<0.002	0.20	0.11	2.4	<1	0.2	126.5	0.22	<0.05	0.71	0.088	0.03
557653		390	2.0	4.3	<0.002	0.07	0.11	1.7	<1	0.2	181.0	0.18	<0.05	0.57	0.070	0.05
557654		370	2.1	4.9	<0.002	0.09	0.16	1.6	<1	0.2	102.5	0.19	0.25	0.55	0.072	0.04
557655		500	3.3	6.7	<0.002	0.12	0.12	2.5	1	0.3	87.5	0.26	<0.05	0.90	0.112	0.06
557656		60	0.5	0.3	<0.002	<0.01	0.08	0.1	<1	<0.2	81.0	<0.05	<0.05	0.09	0.005	<0.02
557657		440	1.9	2.4	0.002	0.17	0.12	2.1	<1	0.3	29.6	0.23	0.07	0.79	0.090	0.03
557658		650	3.4	2.2	<0.002	0.22	0.15	3.1	1	0.3	27.9	0.35	<0.05	1.21	0.121	0.02
557659		440	1.5	1.5	<0.002	0.14	0.13	2.0	1	0.4	16.8	0.23	<0.05	0.69	0.081	<0.02
557660		590	2.9	1.5	<0.002	0.30	0.20	4.3	1	0.4	16.7	0.45	0.08	1.34	0.173	0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18211367**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
557641		11.4	169	0.8	9.7	546	129.5
557642		15.8	202	1.0	12.5	685	147.5
557643		15.0	210	1.0	12.9	683	138.5
557644		40.8	761	2.5	21.6	1480	73.0
557645		27.9	613	1.8	13.9	693	63.4
557646		27.5	495	1.5	12.9	1010	77.2
557647		28.3	438	1.4	13.9	1790	81.5
557648		9.2	181	1.2	14.3	44	154.5
557649		0.6	140	9.3	15.2	80	97.2
557650		3.4	136	1.3	6.9	116	72.4
557651		5.0	189	1.2	6.8	149	77.5
557652		0.3	61	0.2	4.4	30	21.8
557653		0.3	47	0.1	4.6	14	18.1
557654		0.2	47	0.2	3.9	10	17.6
557655		0.6	67	0.4	5.3	14	25.1
557656		0.1	1	<0.1	2.1	3	2.2
557657		0.5	67	0.2	5.3	11	23.2
557658		0.8	94	0.4	7.6	15	35.5
557659		0.5	59	0.3	5.3	11	20.3
557660		0.9	121	0.6	7.1	20	41.9





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Page: 1  
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## CERTIFICAT VO18211370

Projet: Kan

Bon de commande #: KANDH18-085

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18211370**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557681		2.28	0.002	0.19	7.89	4.2	420	3.60	0.16	0.19	0.15	65.0	18.4	107	12.55	38.7
557682		2.52	<0.001	0.02	0.67	1.3	20	1.69	0.02	1.81	0.15	10.75	6.5	17	1.63	6.9
557683		2.65	<0.001	0.04	0.70	1.5	30	0.81	0.04	1.11	0.29	10.65	7.9	21	5.40	11.1
557684		2.54	<0.001	0.10	0.78	0.9	30	1.10	0.07	0.81	0.41	13.85	8.7	21	1.11	7.6
557685		2.57	<0.001	0.12	1.04	4.9	50	0.97	0.16	0.96	0.47	19.35	9.7	26	10.55	4.4
557686		2.62	<0.001	0.02	0.60	1.6	30	0.55	0.01	0.78	0.41	9.45	7.0	19	10.60	8.4
557687		3.68	<0.001	0.09	0.90	11.0	50	0.79	0.01	0.81	0.58	12.40	10.4	24	4.59	11.6
557688		3.50	0.003	0.23	6.12	12.1	260	2.15	0.13	0.17	0.14	45.7	17.6	84	9.86	49.1
557689		0.07	2.54	0.43	6.57	12.3	310	1.19	0.16	4.61	0.08	43.5	54.5	302	0.65	79.6
557690		4.61	0.003	0.21	7.97	4.3	460	2.79	0.16	0.16	0.36	59.6	18.7	98	13.50	52.3
557691		4.61	0.002	0.23	8.20	2.8	490	2.99	0.18	0.09	1.77	57.5	19.3	100	13.30	47.5
557692		4.64	0.002	0.22	7.87	2.1	480	2.97	0.26	0.18	0.37	59.8	18.5	99	15.05	41.8
557693		4.70	0.003	0.38	8.46	1.0	510	2.92	0.39	0.12	0.94	54.5	21.0	104	15.60	48.9
557694		4.66	0.002	0.21	8.09	3.4	430	2.32	0.16	0.08	1.03	64.0	20.7	95	14.95	47.1
557695		4.59	0.003	0.26	8.49	3.6	480	2.57	0.23	0.10	5.00	62.4	20.4	102	13.45	50.7
557696		0.33	<0.001	<0.01	0.19	0.2	20	0.10	0.01	30.9	0.02	1.06	0.9	2	0.07	1.0
557697		3.30	0.002	0.25	7.94	4.9	440	2.75	0.19	0.14	0.56	60.4	19.2	102	15.40	48.1
557698		3.93	<0.001	0.03	0.68	3.2	20	0.69	0.02	2.11	0.20	10.75	7.1	19	2.02	7.2
557699		2.46	<0.001	0.02	0.70	20.1	20	0.68	0.02	1.71	0.08	11.50	7.8	21	1.99	7.4
557700		2.47	0.001	0.05	0.93	5.6	20	0.95	0.03	2.11	0.21	16.10	8.5	23	0.71	10.0



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18211370**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
557681		9.44	23.5	0.12	2.1	0.018	0.056	4.00	33.9	69.9	1.45	3210	5.37	0.04	10.3	51.7
557682		17.85	3.70	0.06	0.5	<0.005	0.013	0.23	5.8	11.4	2.89	13600	0.51	0.01	4.7	10.2
557683		16.70	3.54	0.05	0.5	0.007	0.014	0.49	5.7	16.4	2.89	14300	0.45	0.01	4.5	11.8
557684		17.80	3.91	0.06	0.6	<0.005	0.016	0.32	7.1	9.2	2.55	19950	0.62	0.07	5.7	12.6
557685		19.05	5.18	0.06	0.7	<0.005	0.018	0.59	9.4	27.1	3.45	15750	0.60	0.05	6.1	16.7
557686		16.75	3.05	0.05	0.4	<0.005	0.015	0.21	5.1	12.1	2.63	13050	0.50	0.05	4.0	9.9
557687		17.90	4.36	0.06	0.6	<0.005	0.020	0.37	6.7	11.7	2.51	18950	0.61	0.08	5.2	14.3
557688		11.30	17.75	0.08	1.6	<0.005	0.044	2.36	23.9	72.6	1.91	1120	3.70	0.14	7.9	45.7
557689		7.15	18.00	0.09	3.3	0.063	0.059	0.95	21.8	9.4	5.27	985	2.91	1.91	29.8	339
557690		7.65	21.2	0.12	2.0	<0.005	0.050	4.11	30.5	85.2	1.27	322	1.22	0.62	7.2	48.9
557691		7.37	22.6	0.11	2.2	<0.005	0.052	4.47	28.1	91.0	1.20	220	0.99	0.40	8.0	48.3
557692		7.68	21.3	0.11	2.0	<0.005	0.053	4.52	30.6	97.3	1.38	263	1.22	0.06	8.3	46.3
557693		6.88	23.6	0.11	2.2	0.008	0.054	5.15	27.1	94.7	1.10	205	1.37	0.23	8.0	51.4
557694		7.65	22.1	0.11	2.5	0.007	0.051	4.61	30.9	87.3	1.12	504	0.89	0.44	8.4	52.0
557695		7.16	22.7	0.11	2.6	0.011	0.056	4.99	30.3	88.2	1.05	867	1.02	0.44	8.5	52.0
557696		0.18	0.66	<0.05	0.1	<0.005	<0.005	0.09	1.1	1.2	1.27	93	0.05	0.05	0.1	1.1
557697		8.73	21.8	0.11	2.0	<0.005	0.053	4.38	31.5	87.4	1.38	961	1.25	0.33	8.6	49.1
557698		17.05	3.43	<0.05	0.5	<0.005	0.012	0.25	5.8	12.4	2.67	15700	0.50	<0.01	4.2	10.6
557699		17.30	3.68	<0.05	0.5	<0.005	0.015	0.18	6.2	14.1	2.75	14050	0.51	<0.01	4.6	11.2
557700		18.55	4.63	0.06	0.6	0.008	0.019	0.10	7.7	12.5	2.75	17250	0.68	0.01	5.8	15.0





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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18211370**

Description échantillon	Méthode		élément													
	unités		ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	LDI		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	
557681	310	8.2	182.0	0.005	1.41	0.49	14.1	2	1.5	47.9	0.73	0.05	9.49	0.309	1.24	
557682	430	2.3	11.7	<0.002	0.11	0.08	2.1	1	0.3	46.7	0.23	<0.05	0.72	0.081	0.09	
557683	410	11.3	28.8	<0.002	0.18	0.10	2.3	1	0.3	63.3	0.23	0.07	0.71	0.095	0.19	
557684	540	11.2	9.2	<0.002	0.14	0.09	2.4	1	0.2	61.8	0.30	0.06	0.81	0.126	0.06	
557685	740	58.9	32.1	0.002	0.08	0.11	3.3	<1	0.4	85.1	0.31	0.21	1.08	0.124	0.22	
557686	380	2.8	9.0	<0.002	0.12	0.10	1.9	1	0.2	68.4	0.21	<0.05	0.59	0.079	0.08	
557687	480	3.7	12.2	<0.002	0.22	0.10	2.9	1	0.3	85.4	0.29	<0.05	0.92	0.112	0.07	
557688	250	18.8	102.5	0.007	1.00	0.38	10.8	2	1.0	49.1	0.55	0.08	7.17	0.239	0.52	
557689	1760	4.9	31.2	<0.002	0.03	0.35	20.6	<1	1.4	460	1.50	0.08	2.78	1.005	0.07	
557690	290	14.9	163.0	0.006	0.84	0.36	13.0	2	1.4	55.9	0.55	0.05	9.22	0.266	0.75	
557691	220	15.6	168.5	0.004	0.92	0.36	13.7	1	1.5	44.0	0.62	<0.05	9.65	0.286	0.77	
557692	240	23.0	183.5	0.006	0.69	0.36	13.4	2	1.4	48.1	0.61	0.09	9.05	0.279	0.82	
557693	230	32.0	184.0	0.004	1.03	0.41	14.3	2	1.6	43.1	0.61	0.14	9.34	0.292	0.90	
557694	180	6.7	186.0	0.002	1.12	0.30	13.2	2	1.6	40.4	0.64	<0.05	10.25	0.290	0.84	
557695	220	11.3	186.5	0.003	1.17	0.39	13.7	2	1.6	46.6	0.67	0.08	10.35	0.306	0.78	
557696	60	0.5	3.2	<0.002	<0.01	0.07	0.4	1	<0.2	76.1	<0.05	<0.05	0.09	0.011	0.02	
557697	250	10.6	181.5	0.005	1.12	0.39	13.3	2	1.5	44.3	0.63	0.08	9.16	0.292	0.84	
557698	440	2.4	12.6	<0.002	0.13	0.10	2.1	<1	0.2	85.0	0.22	<0.05	0.76	0.077	0.08	
557699	470	1.6	9.1	<0.002	0.12	0.08	2.2	<1	0.3	39.2	0.22	0.05	0.70	0.086	0.07	
557700	530	1.9	3.7	<0.002	0.25	0.12	2.9	1	0.3	38.0	0.32	<0.05	1.02	0.111	0.04	



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18211370**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557681		5.1	206	2.0	7.2	152	78.6
557682		0.4	64	0.3	4.9	14	22.1
557683		0.5	59	0.1	4.2	29	22.0
557684		0.5	68	0.4	5.2	22	31.0
557685		0.8	81	0.2	6.4	28	31.3
557686		0.4	49	0.1	4.3	17	19.4
557687		0.6	73	0.4	5.1	23	26.7
557688		3.5	175	1.1	5.1	213	62.2
557689		0.6	140	3.4	21.3	101	143.5
557690		2.9	168	1.8	5.7	228	72.1
557691		2.9	149	2.0	5.2	270	82.1
557692		3.3	168	1.9	5.6	272	71.4
557693		3.5	176	2.1	5.2	243	80.4
557694		2.8	119	1.8	5.5	232	94.8
557695		3.3	139	2.2	5.8	300	91.9
557696		0.1	3	<0.1	2.1	4	1.9
557697		3.7	176	2.1	6.0	231	74.8
557698		0.5	62	0.2	4.7	21	20.6
557699		0.5	67	0.2	4.9	12	22.0
557700		0.8	83	0.4	6.1	33	31.6





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## CERTIFICAT VO18211374

Projet: Kan

Bon de commande #: KANDH18-081

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 28-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18211374**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557601		4.94	0.021	1.18	7.60	75.0	160	3.56	0.26	1.72	5.14	63.8	22.9	78	4.45	326
557602		4.78	0.043	1.46	7.25	91.2	110	2.54	0.32	0.69	8.10	55.6	22.4	75	3.84	206
557603		4.73	0.011	0.88	8.45	56.2	290	3.16	0.20	0.85	4.70	85.5	21.8	96	4.60	201
557604		4.50	0.030	1.95	3.86	99.1	160	2.16	0.33	1.14	14.30	55.6	20.0	58	3.23	308
557605		4.38	0.044	2.34	2.57	113.0	120	1.62	0.34	1.15	24.0	61.2	23.7	59	3.43	363
557606		4.47	0.040	2.23	1.99	77.7	100	1.21	0.25	2.77	12.20	33.9	16.6	40	2.14	589
557607		4.91	0.043	1.99	2.45	163.5	110	1.40	0.33	3.79	15.65	33.8	18.4	59	2.41	433
557608		4.79	0.062	2.80	3.40	289	80	2.05	0.54	1.38	16.65	43.8	28.5	57	3.36	231
557609		0.07	0.681	0.23	7.05	21.9	330	1.49	0.16	4.35	0.24	52.5	45.4	188	2.01	58.7
557610		4.54	0.055	2.32	2.42	146.5	110	1.42	0.26	2.71	18.45	46.1	17.6	54	2.78	458
557611		4.43	0.039	1.76	2.55	235	110	1.53	0.29	4.61	13.15	34.6	20.7	53	2.66	200
557612		4.53	0.049	2.09	2.43	214	110	1.45	0.33	2.79	15.30	32.9	22.4	53	2.96	276
557613		4.22	0.087	2.46	2.78	266	130	1.59	0.44	1.24	22.6	42.1	27.5	60	3.91	253
557614		4.67	0.057	2.36	2.51	343	120	1.47	0.46	2.77	20.5	37.8	26.9	58	2.97	178.0
557615		4.31	0.040	2.43	2.39	190.5	110	1.37	0.38	1.99	16.80	38.1	24.7	55	2.68	365
557616		0.29	<0.001	0.01	0.05	0.3	10	0.07	0.01	32.9	0.05	1.09	0.6	2	<0.05	2.7
557617		4.65	0.051	2.28	2.70	171.5	120	1.47	0.41	1.53	18.10	42.7	29.5	65	2.95	304
557618		4.71	0.053	2.38	3.12	211	110	1.43	0.41	2.03	14.85	39.6	24.2	59	2.85	210
557619		4.68	0.015	1.09	7.75	83.7	240	2.43	0.26	1.13	4.46	71.4	24.5	103	4.73	160.5
557620		3.33	0.026	1.56	5.83	107.0	140	1.61	0.29	1.26	7.57	46.4	26.2	73	3.56	195.5



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18211374**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557601		13.75	19.70	0.20	3.7	0.555	0.098	3.59	37.2	29.3	1.21	773	15.80	0.16	8.2	208
557602		12.70	18.10	0.17	3.1	0.849	0.125	3.37	31.9	22.9	0.68	310	18.90	0.15	7.8	172.0
557603		9.47	22.8	0.20	6.3	0.390	0.104	3.85	47.4	31.9	0.89	412	13.65	0.18	22.6	124.0
557604		10.45	10.40	0.18	2.6	1.015	0.113	1.68	35.2	18.9	0.69	773	105.5	0.08	5.9	225
557605		11.50	7.65	0.21	2.9	1.245	0.124	1.18	39.2	15.9	0.70	890	153.5	0.04	6.5	276
557606		14.20	5.53	0.19	1.0	0.651	0.040	0.92	22.2	11.2	1.23	1900	136.0	0.04	2.1	349
557607		14.25	6.46	0.18	1.1	1.170	0.047	1.15	22.1	13.4	1.80	2000	103.0	0.05	3.8	319
557608		17.10	9.39	0.25	1.4	1.745	0.054	1.60	28.3	17.9	0.81	736	112.0	0.08	6.9	299
557609		7.23	19.65	0.12	3.8	0.023	0.074	0.85	23.5	13.5	2.82	919	2.59	1.70	21.4	148.0
557610		14.25	6.83	0.20	1.3	1.085	0.066	1.13	31.1	12.1	1.19	1650	144.0	0.08	3.7	335
557611		12.80	6.83	0.16	1.2	1.290	0.046	1.19	23.9	14.3	2.22	2050	111.5	0.05	3.6	239
557612		13.80	6.49	0.16	1.1	1.305	0.051	1.12	22.7	13.3	1.39	1750	127.5	0.04	3.6	320
557613		13.90	7.59	0.19	1.2	1.920	0.075	1.29	31.3	13.3	0.75	801	220	0.04	3.1	418
557614		15.70	6.98	0.20	1.2	1.960	0.067	1.14	26.2	13.9	1.44	1420	142.0	0.04	3.5	381
557615		14.80	6.71	0.18	1.3	1.275	0.056	1.06	25.7	12.3	1.03	1300	160.0	0.04	3.1	347
557616		0.14	0.22	0.09	<0.1	<0.005	0.008	0.01	1.2	0.9	1.40	96	0.49	0.02	0.2	1.4
557617		13.30	7.47	0.15	1.3	1.295	0.079	1.19	28.4	13.6	0.90	844	147.0	0.05	3.4	272
557618		15.65	8.35	0.17	1.5	1.440	0.092	1.36	25.6	12.4	0.98	1080	128.0	0.09	4.7	292
557619		11.05	19.70	0.18	4.2	0.548	0.080	3.37	42.0	24.0	0.96	500	38.8	0.15	11.3	167.0
557620		13.95	13.95	0.15	2.4	0.788	0.095	2.46	28.6	16.8	0.94	630	44.0	0.11	5.0	199.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18211374**

Description échantillon	Méthode		élément														
	unités		ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	LDI		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02		
557601	340	35.5	108.0	0.018	>10.0	5.81	19.4	10	2.0	60.1	0.50	0.57	5.31	0.236	6.30		
557602	370	47.6	97.8	0.022	>10.0	5.90	14.5	7	1.7	36.4	0.45	0.76	5.00	0.218	5.77		
557603	370	25.9	116.5	0.015	6.93	3.49	19.6	6	2.5	44.7	1.30	0.41	7.89	0.284	6.29		
557604	1420	55.7	59.3	0.073	8.22	7.60	8.0	17	1.4	49.9	0.39	0.52	4.75	0.109	3.74		
557605	2270	63.9	47.2	0.125	8.83	8.60	6.1	23	1.2	43.2	0.68	0.45	5.00	0.074	3.17		
557606	2340	48.5	34.2	0.075	9.90	5.01	4.7	27	0.8	73.7	0.14	0.27	2.62	0.053	2.31		
557607	1540	64.8	41.0	0.095	>10.0	9.83	6.5	24	0.8	87.1	0.24	0.50	2.88	0.104	3.17		
557608	760	118.0	58.2	0.078	>10.0	19.35	7.5	20	1.0	41.0	0.47	0.90	3.97	0.108	4.83		
557609	1130	15.9	37.8	<0.002	0.04	1.14	21.1	1	1.7	348	1.19	0.05	5.37	0.906	0.22		
557610	2230	69.0	43.2	0.102	>10.0	7.59	6.1	27	0.9	73.2	0.25	0.32	3.37	0.080	3.18		
557611	1070	75.7	43.2	0.089	>10.0	11.00	6.5	18	0.8	83.1	0.24	0.35	2.91	0.097	3.51		
557612	1060	89.2	42.4	0.076	>10.0	11.30	5.8	19	0.8	67.8	0.26	0.47	3.20	0.080	3.34		
557613	1190	110.5	50.5	0.125	>10.0	13.75	5.9	21	0.9	37.1	0.22	0.73	4.21	0.077	4.53		
557614	980	110.0	43.0	0.111	>10.0	17.45	6.2	21	0.8	62.6	0.24	0.85	3.21	0.093	3.90		
557615	1680	81.6	39.7	0.097	>10.0	9.81	5.7	25	0.8	51.9	0.21	0.52	3.19	0.067	3.03		
557616	60	0.9	0.3	<0.002	0.02	0.15	0.2	1	<0.2	82.3	<0.05	<0.05	0.09	0.005	0.02		
557617	1050	75.8	44.5	0.105	>10.0	10.15	6.6	19	0.9	38.5	0.24	0.57	3.68	0.086	3.37		
557618	1210	98.3	47.4	0.081	>10.0	12.95	6.8	16	0.9	50.2	0.33	0.70	3.59	0.090	3.65		
557619	520	40.6	98.1	0.028	8.64	5.03	16.7	9	2.0	50.2	0.71	0.38	6.24	0.244	6.34		
557620	610	46.8	72.1	0.036	>10.0	6.46	11.7	12	1.3	47.4	0.30	0.48	3.86	0.163	4.63		



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18211374**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
557601	0.1	13.8	248	2.4	11.9	864	140.5
557602		15.1	222	2.0	10.7	1380	121.5
557603		13.2	182	2.2	17.2	740	235
557604		54.7	882	2.7	29.0	2040	98.5
557605		78.3	1370	3.1	39.8	3250	117.0
557606		46.9	1100	2.3	23.5	1660	41.7
557607		38.8	1060	2.7	18.1	2140	46.3
557608		42.5	1010	2.7	21.1	2160	63.3
557609		1.3	145	2.1	21.7	130	154.0
557610		55.3	1280	2.9	25.3	2490	54.5
557611		41.0	1080	2.6	16.8	1900	50.3
557612		54.9	1240	2.8	21.8	2150	46.8
557613		102.5	1860	4.1	25.1	3270	49.8
557614		50.3	1340	3.1	21.6	2880	49.5
557615		56.2	1320	2.8	26.5	2400	52.3
557616		0.2	3	<0.1	2.0	7	1.7
557617		53.8	1390	3.1	25.9	2600	56.0
557618		52.6	1080	2.8	23.6	2320	61.6
557619		20.4	382	2.2	17.3	725	164.0
557620		21.5	468	1.8	15.2	1320	96.9







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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 17-SEPT-2018  
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## CERTIFICAT VO18214791

Projet: Kan  
Bon de commande #: 20920 - KAN  
Ce rapport s'applique aux 10 échantillons de roche soumis à notre laboratoire de Val d'Or, QC, Canada le 31-AOUT-2018.  
Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 17-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18214791**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
454951		2.76	<0.001	0.01	0.04	1.0	<10	0.23	0.01	8.74	0.04	4.03	1.3	5	<0.05	0.8
454952		3.03	<0.001	<0.01	0.22	4.0	<10	0.29	0.01	6.67	0.02	7.06	2.9	10	<0.05	0.8
454953		0.60	<0.001	0.02	0.03	34.9	<10	1.08	0.02	0.82	0.02	3.50	3.3	6	<0.05	2.6
454954		2.49	<0.001	<0.01	0.07	2.0	10	8.15	0.01	8.08	0.13	4.83	1.4	11	0.05	0.6
454955		1.49	<0.001	0.01	0.01	9.4	<10	0.35	0.01	5.68	<0.02	4.34	1.6	12	<0.05	1.1
454956		1.63	<0.001	<0.01	0.05	2.0	10	0.18	0.01	7.95	0.02	7.80	1.4	6	0.05	0.8
454957		2.39	<0.001	0.01	0.12	1.4	10	0.59	0.02	5.04	0.05	5.93	2.8	12	0.07	0.9
454958		3.15	<0.001	<0.01	0.06	0.2	<10	0.22	0.01	4.94	0.07	4.98	1.6	17	0.06	0.6
454959		0.80	<0.001	0.03	0.07	1.5	<10	0.26	0.01	8.68	0.11	11.00	2.7	7	0.10	5.9
454960		2.32	<0.001	0.01	0.09	0.4	<10	0.38	0.01	13.45	0.15	17.80	1.2	3	0.11	2.1



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 17-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18214791**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
454951		15.65	0.20	0.05	<0.1	0.018	<0.005	0.01	2.6	1.3	5.14	3770	0.11	<0.01	0.6	0.8
454952		17.55	1.46	0.06	0.2	0.012	0.007	0.01	4.4	3.5	4.31	4740	0.46	<0.01	1.2	2.3
454953		11.55	0.29	<0.05	<0.1	0.086	<0.005	0.01	2.3	0.7	1.27	2160	0.22	<0.01	0.5	2.8
454954		10.75	0.51	<0.05	<0.1	0.008	0.011	0.04	2.9	1.6	3.71	3180	0.22	<0.01	0.5	1.3
454955		8.28	0.17	<0.05	<0.1	0.013	<0.005	0.01	2.8	0.7	2.79	1860	0.16	<0.01	0.1	1.4
454956		9.81	0.94	<0.05	<0.1	0.021	<0.005	0.03	4.9	2.2	3.27	2300	0.29	<0.01	0.3	1.2
454957		13.25	0.74	<0.05	0.1	0.007	0.006	0.04	3.9	1.9	3.04	4010	0.18	0.01	0.6	2.1
454958		9.51	0.41	<0.05	<0.1	<0.005	0.007	0.03	3.3	1.3	2.63	2930	0.24	<0.01	0.5	1.3
454959		17.10	0.51	0.05	<0.1	<0.005	0.010	0.04	7.6	1.6	5.18	4150	0.61	<0.01	0.2	1.2
454960		16.25	0.63	0.05	<0.1	0.007	0.013	0.05	11.7	2.6	7.34	4390	0.30	<0.01	0.2	0.7



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 17-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18214791**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
454951		40	1.1	0.5	<0.002	<0.01	0.08	0.2	1	<0.2	34.8	<0.05	<0.05	0.11	<0.005	<0.02
454952		180	0.8	0.4	<0.002	0.01	0.08	0.6	1	<0.2	37.5	0.08	<0.05	0.31	0.012	<0.02
454953		230	0.7	0.3	<0.002	0.14	0.12	0.1	1	<0.2	5.2	<0.05	0.09	0.06	<0.005	0.02
454954		50	1.4	1.3	<0.002	<0.01	0.07	0.2	<1	<0.2	66.9	<0.05	<0.05	0.08	<0.005	0.03
454955		170	0.7	0.2	<0.002	0.26	0.08	0.1	1	<0.2	14.8	<0.05	<0.05	0.03	<0.005	<0.02
454956		120	0.9	1.0	<0.002	0.10	0.07	0.1	1	<0.2	29.9	<0.05	<0.05	0.07	<0.005	0.05
454957		230	1.0	1.4	<0.002	0.02	0.19	0.3	<1	<0.2	28.0	<0.05	<0.05	0.09	0.005	0.04
454958		40	0.9	1.2	<0.002	<0.01	0.06	0.1	<1	<0.2	43.8	<0.05	<0.05	0.06	<0.005	0.03
454959		170	1.7	1.5	<0.002	0.53	0.12	0.1	1	<0.2	67.1	<0.05	<0.05	0.09	<0.005	0.05
454960		90	2.6	2.1	<0.002	0.07	0.06	0.1	1	<0.2	139.0	<0.05	<0.05	0.15	<0.005	0.07



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18214791**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
454951		0.2	6	0.2	5.7	8	2.0
454952		0.2	22	0.4	5.9	5	9.2
454953		0.2	5	0.2	2.5	3	1.9
454954		0.1	9	0.1	5.8	16	1.7
454955		0.4	4	0.1	4.1	3	0.7
454956		0.3	5	0.1	5.9	4	1.8
454957		0.1	13	0.2	5.0	13	3.5
454958		<0.1	7	0.1	4.8	13	1.0
454959		0.1	4	0.1	8.6	27	1.0
454960		0.5	5	0.2	14.8	28	2.9





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Page: 1  
Nombre total de pages: 2 (A - D)  
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## CERTIFICAT VO18214805

Projet: Kan

Bon de commande #: KANDH18-080

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 31-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18214805**

Description échantillon	Méthode	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	élément	Poids reçu	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	unités	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LDI															
557581		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557581		4.66	0.055	2.17	6.01	172.0	150	2.07	0.39	0.82	5.14	55.3	21.7	71	3.32	105.5
557582		3.84	0.048	5.89	4.86	141.5	140	2.43	0.34	1.66	17.15	50.1	20.4	62	3.04	244
557583		4.42	0.046	2.80	2.95	52.6	140	2.41	0.27	1.29	28.1	53.1	12.5	63	2.58	484
557584		4.91	0.027	2.33	2.63	88.4	100	1.92	0.32	1.44	19.40	55.4	15.3	53	1.71	583
557585		2.87	0.043	2.98	3.23	52.2	170	3.06	0.34	1.27	31.0	57.4	23.1	79	2.71	621
557586		3.91	0.066	4.29	2.42	12.4	130	2.71	0.60	0.86	38.8	34.0	5.2	56	3.57	923
557587		4.45	0.026	2.41	2.76	45.9	150	2.26	0.32	1.79	21.0	49.6	20.4	57	1.97	513
557588		4.66	0.041	3.15	2.30	111.5	110	2.19	0.40	2.22	17.20	51.3	24.0	54	2.08	536
557589		0.07	7.73	1.20	5.80	32.4	300	0.94	0.48	2.83	0.09	28.6	42.2	312	0.63	111.0
557590		4.60	0.045	2.83	2.04	120.5	120	2.35	0.34	3.08	18.30	48.4	30.1	50	2.27	501
557591		4.74	0.038	2.49	2.04	255	120	2.39	0.31	2.96	17.10	47.0	16.4	49	2.57	333
557592		4.49	0.047	2.76	2.15	152.0	110	2.15	0.33	2.06	18.10	51.9	22.4	51	2.42	482
557593		4.60	0.065	2.52	3.77	143.5	120	3.10	0.44	1.09	21.8	47.2	26.5	62	3.93	347
557594		4.64	0.071	3.00	3.71	173.0	130	2.98	0.44	1.41	20.9	52.8	29.7	80	4.17	302
557595		4.32	0.058	2.75	2.45	116.0	130	2.05	0.32	1.31	21.1	46.1	22.5	70	3.34	240
557596		0.39	0.001	0.01	0.05	1.1	10	<0.05	<0.01	32.0	0.05	0.92	0.7	1	<0.05	1.7
557597		4.69	0.063	2.57	2.66	246	120	2.25	0.52	0.88	17.05	41.4	23.3	64	3.05	157.0
557598		4.54	0.055	1.93	1.82	195.0	100	1.35	0.24	3.82	10.40	39.8	28.3	53	1.95	322
557599		4.49	0.050	3.05	2.37	47.8	120	1.74	0.29	1.99	14.15	54.5	13.8	62	2.88	387
557600		4.61	0.053	2.93	3.33	79.8	170	2.02	0.34	2.15	16.35	49.4	18.9	68	3.41	366



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18214805**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
557581		14.30	16.35	0.17	2.3	0.966	0.049	2.68	32.6	19.4	0.65	453	41.8	0.13	5.9	157.5
557582		14.85	13.55	0.17	2.1	1.275	0.063	2.09	30.4	22.4	1.05	1090	64.4	0.10	4.2	263
557583		13.30	8.80	0.19	2.0	1.080	0.069	1.15	32.9	27.0	0.97	1870	121.5	0.03	3.2	285
557584		13.40	8.24	0.18	1.9	0.919	0.049	0.81	31.6	29.6	1.31	2510	85.4	0.03	3.9	224
557585		13.80	9.67	0.18	1.9	1.525	0.069	1.34	34.5	31.4	1.02	2010	120.5	0.04	3.2	249
557586		20.7	7.57	0.21	1.1	1.825	0.084	1.10	23.7	25.0	0.67	995	169.0	0.02	1.7	448
557587		16.90	9.47	0.19	1.7	1.035	0.056	0.91	27.3	28.8	1.38	2850	92.0	0.04	2.3	270
557588		18.00	7.43	0.19	1.8	0.957	0.060	0.94	29.9	21.8	1.37	3970	118.5	0.04	4.1	258
557589		5.38	15.05	0.08	2.3	0.157	0.046	1.03	14.6	14.3	3.89	720	6.16	1.16	15.6	241
557590		18.40	6.51	0.20	1.6	0.944	0.056	0.88	31.0	22.5	1.64	3860	116.0	0.03	4.9	252
557591		15.25	6.58	0.17	1.8	0.947	0.055	0.90	30.4	24.0	1.73	4140	129.0	0.03	5.1	209
557592		17.80	6.87	0.19	1.4	0.929	0.057	0.88	33.3	21.4	1.33	2950	117.0	0.03	3.4	276
557593		17.15	10.30	0.18	1.8	1.665	0.076	1.86	29.9	27.6	0.77	943	115.0	0.06	4.2	284
557594		15.65	10.45	0.19	1.7	1.780	0.074	1.75	34.2	27.4	0.99	1190	120.5	0.07	5.0	288
557595		12.15	6.95	0.16	1.8	1.600	0.074	1.21	30.4	20.3	0.69	1140	155.5	0.04	4.4	289
557596		0.12	0.24	0.15	<0.1	<0.005	0.005	0.01	1.1	1.0	1.27	84	0.45	0.02	0.1	2.3
557597		14.25	7.91	0.17	1.4	2.04	0.056	1.33	27.5	18.7	0.57	757	135.5	0.04	4.4	299
557598		14.40	5.25	0.16	1.2	0.871	0.043	0.84	25.9	15.4	1.92	2530	107.0	0.04	4.8	273
557599		14.30	7.22	0.19	2.1	0.827	0.098	1.05	34.3	14.5	1.10	1930	146.0	0.05	4.9	349
557600		14.15	9.28	0.16	2.4	1.285	0.136	1.56	31.0	16.2	1.06	1410	137.5	0.06	7.3	300



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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 Finalisée date: 16-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18214805**

Description échantillon	Méthode	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	élément	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	unités LDI	ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
557581		530	83.0	88.9	0.037	>10.0	10.90	10.5	8	1.5	43.0	0.37	0.69	4.79	0.144	6.48
557582		720	58.6	76.0	0.054	>10.0	13.40	9.7	17	1.3	52.4	0.26	0.76	4.02	0.109	5.47
557583		1760	24.7	53.6	0.101	7.71	3.51	6.0	29	1.2	43.1	0.22	0.43	5.20	0.063	3.30
557584		1900	21.9	38.4	0.063	7.82	4.03	5.1	26	1.1	41.2	0.26	0.50	4.55	0.055	2.38
557585		1410	31.7	62.5	0.100	8.35	6.42	6.3	24	1.4	40.8	0.20	0.54	5.01	0.070	3.82
557586		1250	61.8	58.7	0.137	>10.0	12.15	6.2	37	1.0	33.3	0.11	0.74	3.91	0.047	3.56
557587		1600	31.2	46.9	0.069	9.06	4.75	6.8	27	1.1	56.4	0.13	0.47	4.39	0.045	2.70
557588		2150	46.0	52.3	0.082	9.90	6.78	5.8	25	1.0	70.0	0.23	0.66	3.85	0.048	2.96
557589		1040	9.0	38.1	<0.002	0.08	0.75	22.0	1	0.9	266	0.86	0.21	2.28	0.641	0.20
557590		2380	48.0	42.2	0.088	>10.0	7.40	5.3	23	1.1	78.6	0.31	0.57	3.20	0.057	2.43
557591		2710	45.7	46.4	0.084	7.65	7.64	5.7	17	1.0	81.5	0.32	0.51	3.11	0.057	2.58
557592		2070	48.4	44.1	0.085	9.58	6.38	5.7	23	0.9	62.6	0.22	0.49	3.35	0.053	2.51
557593		950	73.2	72.1	0.093	>10.0	13.75	8.3	20	1.3	43.0	0.26	0.80	3.82	0.093	4.62
557594		1030	91.0	68.7	0.097	>10.0	17.30	8.9	21	1.2	58.9	0.31	0.83	4.23	0.110	4.72
557595		2070	76.6	48.7	0.107	8.84	11.10	6.0	18	1.1	52.8	0.30	0.46	3.76	0.076	3.30
557596		60	0.6	0.5	<0.002	0.01	0.07	0.2	2	<0.2	81.6	<0.05	<0.05	0.06	<0.005	0.02
557597		960	104.5	52.4	0.100	>10.0	22.9	7.0	16	1.0	37.3	0.29	0.99	3.66	0.090	4.08
557598		1910	47.1	32.7	0.071	>10.0	8.25	5.5	19	0.8	92.2	0.29	0.37	2.56	0.090	2.05
557599		2300	70.6	44.0	0.098	8.50	8.35	6.0	22	1.1	76.0	0.35	0.28	4.11	0.071	2.54
557600		1750	64.5	57.5	0.095	9.61	10.50	7.3	17	1.2	72.5	0.48	0.48	4.19	0.099	3.45



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18214805**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
557581		21.0	361	1.9	13.3	902	90.7
557582		31.3	657	2.4	17.1	2510	84.3
557583		69.1	1100	2.4	30.1	3740	77.8
557584		45.2	712	1.4	27.4	2590	76.0
557585		60.7	1160	2.7	26.5	4300	74.9
557586		76.2	1420	3.2	23.6	5570	44.5
557587		44.2	681	1.4	23.6	2960	64.0
557588		52.4	876	1.3	28.5	2290	66.3
557589		0.6	137	8.4	14.9	83	91.7
557590		48.8	976	1.6	28.0	2370	66.0
557591		50.6	1080	1.7	31.7	2270	73.8
557592		50.0	970	1.7	27.0	2420	52.3
557593		48.7	1000	2.9	18.5	3130	66.9
557594		50.9	1080	3.5	22.3	2850	66.6
557595		68.9	1320	3.3	30.7	2950	67.9
557596		0.2	4	<0.1	2.2	10	1.3
557597		58.1	1190	3.1	21.5	2300	54.6
557598		42.6	874	2.7	22.3	1460	46.1
557599		61.0	1120	3.0	30.3	2110	80.3
557600		57.2	1140	3.1	30.0	2680	91.1





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Page: 1  
Nombre total de pages: 2 (A - D)  
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## CERTIFICAT VO18214819

Projet: Kan

Bon de commande #: KANDH18-084

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 31-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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À: **MINIÈRE OSISKO INC.**  
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**BUREAU 200**  
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Page: 2 - A  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18214819**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557661		2.60	<0.001	0.03	0.75	4.6	20	1.60	0.03	1.62	0.04	14.05	7.4	22	0.22	10.4
557662		2.67	<0.001	0.02	0.78	2.5	30	0.99	0.03	1.59	0.03	15.60	8.1	21	0.18	9.7
557663		2.50	<0.001	0.01	0.54	6.8	20	1.40	0.03	2.60	0.02	10.70	5.9	18	0.25	7.1
557664		2.59	<0.001	0.01	0.45	3.1	30	0.67	0.02	2.38	<0.02	8.86	6.8	16	0.30	6.8
557665		2.62	<0.001	0.01	0.37	0.7	20	0.55	0.01	3.03	<0.02	8.82	4.2	16	0.58	3.5
557666		2.44	<0.001	0.02	0.75	2.9	20	1.15	0.04	1.96	<0.02	14.00	7.0	24	0.25	10.1
557667		2.45	<0.001	0.02	0.60	3.3	10	1.04	0.02	1.91	0.02	12.30	7.2	19	0.16	7.9
557668		2.51	<0.001	0.02	0.58	4.4	30	1.92	0.02	1.52	0.03	11.50	6.1	21	0.18	9.7
557669		0.07	0.666	0.21	7.26	20.8	340	1.32	0.14	4.53	0.18	47.2	41.6	190	1.92	55.8
557670		2.55	<0.001	0.02	0.88	3.5	30	1.49	0.02	1.88	0.04	16.55	7.3	24	0.30	8.8
557671		2.58	<0.001	0.03	1.26	2.5	20	2.03	0.03	1.87	0.05	15.95	10.9	30	0.57	14.4
557672		2.49	<0.001	0.03	0.98	3.4	20	2.18	0.03	2.17	0.07	15.70	9.4	26	0.44	12.2
557673		2.64	<0.001	0.03	1.10	0.3	10	1.24	0.04	1.76	0.07	15.80	10.5	27	0.40	23.3
557674		3.73	<0.001	0.02	0.81	2.7	10	0.77	0.03	1.86	0.06	13.55	8.8	22	0.64	9.9
557675		2.80	<0.001	0.04	0.73	0.5	20	0.60	0.02	1.90	0.18	12.65	6.8	18	0.69	11.9
557676		0.31	<0.001	<0.01	0.07	<0.2	20	0.06	0.01	32.7	<0.02	1.02	0.5	2	<0.05	0.8
557677		3.45	0.003	0.36	7.31	5.2	420	3.20	0.17	0.42	0.14	62.9	20.0	112	19.80	46.1
557678		4.57	0.001	0.49	8.18	9.6	430	2.48	0.20	0.22	0.43	58.2	19.8	104	7.57	35.1
557679		4.10	<0.001	0.25	9.47	6.9	410	2.54	0.31	0.20	0.71	86.5	22.0	113	7.60	37.5
557680		4.67	0.001	0.17	8.68	18.1	410	2.54	0.17	0.31	1.39	80.0	20.3	103	6.04	32.9



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18214819**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
557661		21.9	3.88	0.06	0.6	0.005	0.018	0.03	7.8	7.6	2.82	15750	0.75	0.01	5.5	12.8
557662		25.1	3.37	0.07	0.6	<0.005	0.017	0.05	8.6	7.8	3.18	17350	0.68	0.01	5.9	12.4
557663		17.90	2.14	0.06	0.5	<0.005	0.015	0.04	6.0	5.9	2.63	10450	0.43	<0.01	4.6	9.0
557664		19.80	1.65	<0.05	0.3	<0.005	0.013	0.06	5.1	4.9	2.79	11750	0.42	0.01	3.4	9.1
557665		15.05	1.35	0.05	0.3	<0.005	0.010	0.08	5.0	4.8	2.39	9610	0.39	0.04	3.0	5.3
557666		22.6	3.20	0.06	0.7	<0.005	0.016	0.04	7.7	7.3	3.02	13050	0.71	0.01	6.4	11.8
557667		20.6	3.30	0.06	0.5	<0.005	0.014	0.02	6.9	6.7	2.78	13950	0.62	0.01	4.7	11.6
557668		17.45	3.16	0.06	0.5	<0.005	0.015	0.05	6.6	6.3	2.29	14550	0.42	0.07	4.5	11.9
557669		7.34	20.3	0.10	3.8	0.032	0.068	0.88	21.9	14.4	2.98	976	2.51	1.72	20.4	147.0
557670		18.40	4.35	0.06	0.6	<0.005	0.021	0.05	9.2	8.7	2.54	16450	0.57	0.14	5.5	14.2
557671		23.6	6.69	0.06	0.9	0.005	0.026	0.05	8.7	12.8	3.18	19600	0.75	0.01	8.1	19.5
557672		20.9	5.44	0.06	0.7	<0.005	0.022	0.05	8.5	10.7	2.83	19100	0.66	0.01	7.3	16.5
557673		26.1	5.98	0.06	0.8	<0.005	0.024	0.02	8.5	11.2	3.51	18250	0.55	<0.01	7.5	18.0
557674		18.90	4.52	0.06	0.7	0.006	0.015	0.04	7.3	8.3	2.64	16200	0.51	<0.01	5.9	14.0
557675		17.90	3.66	0.06	0.5	<0.005	0.015	0.18	7.1	5.5	2.29	21000	0.72	<0.01	4.7	12.5
557676		0.14	0.25	0.11	<0.1	<0.005	0.005	0.01	1.2	0.7	1.39	133	0.05	0.03	0.1	<0.2
557677		11.20	22.6	0.13	2.3	0.011	0.062	3.77	34.5	54.2	1.64	5000	17.55	0.12	16.4	65.5
557678		8.24	24.6	0.15	2.3	0.016	0.053	4.48	29.5	44.3	1.18	11650	1.27	0.34	10.0	48.5
557679		8.10	26.3	0.17	3.0	0.040	0.061	4.67	41.9	49.2	1.15	8510	1.44	0.34	10.3	50.4
557680		8.19	22.7	0.15	2.5	0.027	0.051	4.78	39.1	44.6	1.15	13600	1.11	0.22	8.7	47.3





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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18214819**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557661		530	1.9	1.4	<0.002	0.19	0.14	2.7	1	0.3	19.6	0.32	<0.05	0.84	0.114	<0.02
557662		590	2.5	1.7	<0.002	0.15	0.13	2.6	1	0.3	17.8	0.34	0.05	0.87	0.125	<0.02
557663		370	2.9	1.6	<0.002	0.10	0.11	1.9	1	0.2	24.7	0.26	0.06	0.67	0.094	0.02
557664		380	1.6	2.3	<0.002	0.10	0.11	1.8	1	0.2	20.7	0.19	<0.05	0.46	0.068	0.02
557665		340	1.5	3.6	<0.002	0.05	0.09	1.5	<1	0.2	27.4	0.18	<0.05	0.41	0.057	0.03
557666		510	2.8	1.6	<0.002	0.20	0.14	2.4	1	0.2	18.9	0.37	0.08	0.85	0.130	0.02
557667		460	1.9	0.8	<0.002	0.13	0.14	2.2	1	0.2	20.8	0.27	0.05	0.67	0.092	<0.02
557668		460	1.7	1.6	<0.002	0.15	0.16	1.9	1	0.4	16.8	0.26	<0.05	0.68	0.091	<0.02
557669		1150	13.8	35.9	<0.002	0.02	1.04	20.1	1	1.8	357	1.19	0.06	4.88	0.936	0.19
557670		620	2.3	2.0	<0.002	0.16	0.13	3.1	1	0.3	22.4	0.32	<0.05	0.95	0.114	0.02
557671		600	2.8	2.6	<0.002	0.24	0.16	4.2	1	0.4	22.1	0.48	0.05	1.34	0.167	0.03
557672		560	2.4	2.2	<0.002	0.19	0.15	3.3	1	0.4	25.6	0.41	0.05	1.15	0.121	0.02
557673		540	2.1	1.3	<0.002	0.21	0.15	3.5	1	0.3	21.7	0.39	0.05	1.19	0.140	0.02
557674		490	1.7	2.9	<0.002	0.13	0.11	2.7	1	0.2	36.0	0.32	0.05	0.87	0.113	0.03
557675		490	2.0	7.5	<0.002	0.30	0.12	2.6	1	0.2	112.0	0.24	0.06	0.68	0.092	0.04
557676		40	<0.5	0.5	<0.002	<0.01	0.05	0.2	2	<0.2	78.6	<0.05	<0.05	0.06	0.006	<0.02
557677		720	17.2	192.5	0.009	2.15	0.94	14.9	2	1.5	73.4	0.88	0.11	7.69	0.364	1.14
557678		300	13.6	174.5	0.003	1.03	0.51	14.2	1	1.6	51.7	0.72	0.24	9.36	0.307	0.67
557679		350	41.0	167.5	0.002	0.84	0.37	16.0	2	1.7	59.6	0.76	0.10	12.85	0.358	0.73
557680		680	11.6	173.5	0.003	0.94	0.38	14.1	2	1.4	67.7	0.64	0.07	11.60	0.317	0.67



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18214819**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557661		0.6	66	0.7	7.1	13	26.1
557662		0.5	65	0.8	7.6	13	27.1
557663		0.3	49	0.5	5.3	9	20.9
557664		0.2	44	0.5	5.1	9	14.4
557665		0.2	34	0.4	5.1	7	13.6
557666		0.5	69	0.7	6.9	11	30.0
557667		0.4	54	0.6	6.3	11	22.3
557668		0.5	53	0.5	5.7	11	21.7
557669		1.1	150	2.1	20.1	133	150.5
557670		0.7	81	0.4	6.5	15	27.2
557671		1.0	131	0.5	7.6	20	39.4
557672		0.8	95	0.4	7.4	15	37.6
557673		0.7	107	0.4	8.2	17	37.1
557674		0.6	71	0.2	5.7	13	29.6
557675		0.5	63	0.1	5.0	32	22.9
557676		0.2	1	0.2	2.1	2	1.6
557677		7.4	282	1.5	9.6	139	91.7
557678		3.8	157	1.9	7.0	116	84.7
557679		2.9	137	1.6	8.9	188	112.5
557680		3.1	133	1.6	9.3	174	92.5



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **17-SEPT-2018**  
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**CERTIFICAT D'ANALYSE VO18214819**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada

Applique à la Méthode:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applique à la Méthode:	Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 16-SEPT-2018  
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## CERTIFICAT VO18214845

Projet: Kan

Bon de commande #: KANDH18-076

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 31-AOUT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18214845**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557501		2.02	0.004	0.07	7.05	0.5	400	1.90	0.11	0.30	0.15	52.1	13.7	83	5.03	16.0
557502		3.53	0.002	0.09	6.79	0.3	380	1.98	0.13	0.34	0.18	54.3	14.5	82	5.32	18.3
557503		3.60	0.003	0.07	6.60	14.5	10	0.43	0.01	8.43	0.18	9.12	43.8	133	0.09	152.0
557504		3.83	0.003	0.07	6.71	14.0	<10	0.35	0.01	7.15	0.16	10.10	47.8	137	0.18	144.0
557505		3.64	0.005	0.11	4.66	7.2	70	0.34	0.08	5.76	0.73	9.76	39.3	97	0.09	210
557506		2.84	0.002	0.10	6.80	25.5	<10	0.38	0.02	6.90	1.53	9.93	46.3	132	0.15	151.5
557507		4.75	0.004	0.08	6.66	16.8	10	0.43	0.02	7.01	0.19	9.56	52.0	133	0.15	150.5
557508		4.42	0.003	0.06	6.86	13.6	<10	0.38	0.01	7.17	0.14	9.66	48.2	129	0.08	132.5
557509		0.07	2.53	0.45	6.75	11.7	320	1.30	0.17	4.74	0.09	44.1	54.4	313	0.70	78.8
557510		4.66	0.003	0.04	6.66	12.1	<10	0.35	0.01	6.62	0.13	10.45	51.2	127	0.09	165.0
557511		4.42	0.002	0.05	6.83	13.3	10	0.38	0.01	7.66	0.11	10.50	51.7	123	0.09	131.5
557512		4.87	0.003	0.06	7.25	9.7	10	0.33	0.01	7.40	0.21	10.20	50.0	135	0.09	184.5
557513		4.49	0.003	0.08	6.83	11.8	<10	0.42	0.01	7.92	0.25	10.80	55.9	134	0.13	176.5
557514		4.48	0.003	0.26	6.72	11.0	10	0.38	0.01	5.22	2.96	4.95	49.3	131	0.07	159.5
557515		4.14	0.002	0.12	5.80	20.9	10	0.34	0.01	7.31	2.07	6.13	42.5	105	0.07	117.5
557516		0.30	0.001	<0.01	0.12	0.5	30	0.07	0.01	30.6	<0.02	0.89	0.5	2	0.05	1.2
557517		4.09	0.002	0.08	5.85	16.3	30	0.31	0.01	5.96	0.44	7.37	37.1	109	0.08	153.0
557518		4.60	0.002	0.04	6.09	33.5	10	0.29	0.01	6.70	0.10	8.18	47.2	111	0.07	152.5
557519		4.87	0.004	0.05	4.96	125.0	20	0.19	0.01	4.84	0.15	5.62	71.8	96	0.12	147.5
557520		4.68	0.004	0.06	5.41	121.0	<10	0.21	0.01	4.68	0.13	5.67	73.4	105	0.11	156.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18214845**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557501		8.23	17.40	0.09	2.0	<0.005	0.042	3.62	26.3	38.1	1.27	8790	1.06	0.59	6.7	29.9
557502		8.54	17.80	0.11	2.1	0.006	0.039	3.44	28.2	39.1	1.25	9800	1.18	0.60	7.0	30.0
557503		8.28	15.35	0.06	1.1	<0.005	0.076	0.03	3.4	13.1	3.14	1380	0.35	0.38	3.0	87.8
557504		8.74	17.10	0.07	1.1	0.010	0.080	0.02	3.7	18.3	3.39	1380	0.48	0.66	3.4	94.7
557505		9.14	11.55	0.06	0.9	0.009	0.080	0.09	4.4	21.1	2.24	976	4.45	1.56	2.5	78.6
557506		9.09	18.05	0.07	1.0	<0.005	0.085	0.01	3.9	32.5	3.61	1290	1.00	1.23	3.7	94.9
557507		8.75	16.75	0.06	0.8	0.010	0.079	0.01	3.5	17.9	3.44	1280	0.72	0.38	3.3	90.9
557508		8.14	16.55	0.06	1.3	0.008	0.083	0.01	3.6	17.9	3.32	1340	0.41	1.91	3.3	97.1
557509		7.49	18.30	0.09	3.5	0.060	0.064	1.00	22.2	9.6	5.54	1040	3.24	2.00	29.0	350
557510		8.29	16.75	0.06	0.9	<0.005	0.080	0.01	3.8	19.3	3.46	1240	0.79	1.52	3.5	97.2
557511		7.92	17.95	0.06	0.9	0.015	0.085	0.02	3.7	15.9	3.50	1260	0.44	1.72	3.6	90.1
557512		8.16	18.20	0.06	0.8	0.018	0.084	0.02	3.7	14.9	3.52	1220	0.39	1.42	3.6	110.5
557513		7.81	18.15	0.07	0.9	0.006	0.087	0.02	3.8	20.7	3.47	1240	0.43	1.73	3.7	125.5
557514		7.29	16.30	<0.05	1.1	0.007	0.130	0.02	2.0	22.8	3.29	1060	0.38	2.40	3.1	92.8
557515		7.59	14.75	<0.05	1.1	0.015	0.076	0.01	2.5	27.5	3.32	1580	0.30	1.57	2.7	75.7
557516		0.13	0.34	<0.05	<0.1	0.006	<0.005	0.03	1.0	1.5	1.28	81	0.06	0.03	0.3	0.6
557517		7.99	14.10	<0.05	0.8	0.011	0.063	0.02	2.7	32.8	3.52	1280	0.24	1.28	1.3	75.9
557518		7.85	15.55	<0.05	0.9	0.005	0.070	0.01	3.0	28.9	3.55	1130	0.23	1.47	1.2	80.7
557519		8.51	11.75	0.05	0.7	<0.005	0.054	<0.01	2.0	29.8	7.26	1420	0.17	0.03	0.8	401
557520		8.22	11.75	<0.05	0.9	<0.005	0.043	<0.01	2.1	34.3	7.42	1280	0.14	0.41	0.8	403



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18214845**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557501		210	5.5	157.5	0.002	0.44	0.14	10.5	1	1.2	67.3	0.51	<0.05	8.37	0.256	0.51
557502		250	10.2	163.0	0.002	0.39	0.12	10.8	1	1.2	74.5	0.51	<0.05	8.61	0.244	0.55
557503		380	2.8	0.7	0.002	0.16	0.90	43.2	1	0.6	159.5	0.18	<0.05	0.27	0.638	0.02
557504		380	2.7	0.4	0.002	0.27	0.70	47.2	1	0.7	108.5	0.20	0.05	0.30	0.658	<0.02
557505		270	3.3	2.4	0.005	2.43	0.62	29.2	2	0.8	49.3	0.15	0.45	0.74	0.243	0.08
557506		370	1.8	0.2	0.003	0.49	0.82	48.3	2	0.8	88.3	0.21	0.12	0.35	0.654	<0.02
557507		380	3.5	0.2	0.002	0.30	1.00	45.6	1	0.7	166.5	0.20	0.07	0.31	0.652	0.02
557508		390	1.2	0.2	0.002	0.22	0.36	47.7	1	0.6	73.5	0.20	<0.05	0.26	0.665	<0.02
557509		1820	4.9	32.9	<0.002	0.03	0.34	23.4	1	1.3	471	1.59	0.09	2.82	1.035	0.07
557510		380	1.7	0.2	0.002	0.35	0.55	47.0	1	0.7	88.0	0.22	0.06	0.33	0.653	<0.02
557511		380	1.4	0.2	0.002	0.21	0.89	50.9	1	0.7	127.5	0.21	<0.05	0.28	0.681	<0.02
557512		420	1.8	0.2	0.003	0.18	1.27	51.7	1	0.7	176.0	0.21	<0.05	0.28	0.713	<0.02
557513		400	1.5	0.3	0.003	0.17	1.10	40.0	1	0.7	140.0	0.23	0.05	0.32	0.673	0.02
557514		390	1.0	0.2	<0.002	0.21	0.51	44.9	1	0.7	61.7	0.20	0.05	0.28	0.665	<0.02
557515		330	0.9	0.1	0.002	0.24	0.37	39.8	1	0.6	68.8	0.17	<0.05	0.23	0.571	<0.02
557516		60	<0.5	1.3	<0.002	<0.01	0.08	0.3	1	<0.2	74.6	0.06	<0.05	0.11	0.007	0.02
557517		330	0.9	0.5	0.002	0.33	0.25	38.3	1	0.3	71.0	0.09	<0.05	0.24	0.294	0.02
557518		340	1.3	0.2	0.002	0.22	0.30	38.9	2	0.2	101.0	0.08	<0.05	0.26	0.248	<0.02
557519		230	0.5	0.1	<0.002	0.03	0.24	21.0	<1	<0.2	39.5	0.06	0.11	0.15	0.155	<0.02
557520		240	0.7	0.1	0.002	0.03	0.29	29.2	<1	0.2	54.0	0.06	0.09	0.18	0.175	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 16-SEPT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18214845**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557501		2.3	101	1.4	5.4	70	68.6
557502		2.2	98	1.5	6.2	72	73.9
557503		0.1	328	0.5	22.9	99	39.0
557504		0.2	337	0.4	24.8	116	39.3
557505		1.6	220	0.3	16.6	220	34.1
557506		0.4	343	0.6	24.1	370	51.7
557507		0.2	340	0.5	24.2	115	22.5
557508		0.1	345	0.5	24.2	103	48.1
557509		0.7	145	3.3	21.9	106	138.5
557510		0.3	333	0.4	24.6	111	31.9
557511		0.2	352	0.3	26.2	97	37.3
557512		0.2	368	0.3	25.9	100	26.3
557513		0.2	338	0.3	25.5	114	32.5
557514		0.5	334	0.3	14.7	554	39.7
557515		0.3	301	0.4	19.0	423	34.9
557516		0.1	3	0.1	1.9	4	1.6
557517		0.2	286	0.4	17.0	149	24.7
557518		0.1	286	0.1	7.7	76	28.0
557519		<0.1	208	0.1	3.6	92	25.7
557520		<0.1	206	0.1	3.3	87	22.0





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **16-SEPT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18214845**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 17-SEPT-2018  
Compte: MINVIR

## CERTIFICAT VO18222692

Projet: KAN

Bon de commande #: KANDH18-PRIORITY-040

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 17-SEPT-2018  
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Projet: KAN

**CERTIFICAT D'ANALYSE VO18222692**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555541		2.47	0.015	0.15	0.57	31.3	10	0.10	0.06	1.33	0.07	5.43	3.8	21	0.14	25.4
555542		2.40	0.002	0.06	0.58	45.8	20	0.38	0.03	2.74	0.10	16.95	3.9	19	0.27	13.6
555543		2.46	1.385	0.03	0.27	48.5	20	0.24	0.04	4.03	0.13	13.80	3.6	10	0.37	14.1
555544		1.40	0.017	0.02	0.96	3.1	10	0.30	0.03	2.57	0.18	14.70	3.5	17	0.34	6.0
555545		3.85	0.002	0.02	0.61	15.0	10	0.95	0.04	2.48	0.03	16.65	7.7	20	0.34	7.1
555546		0.30	<0.001	0.01	0.08	0.2	30	0.09	0.01	32.0	0.02	1.70	0.5	2	0.13	1.4
555547		2.39	<0.001	0.01	0.24	9.5	<10	0.78	0.02	1.60	<0.02	9.64	4.4	9	0.23	2.8
555548		2.67	0.002	0.02	0.15	6.3	10	0.91	0.05	1.76	<0.02	10.10	4.0	6	0.25	6.9
555549		2.51	<0.001	0.01	0.24	12.7	<10	0.92	0.02	1.73	<0.02	8.51	5.4	11	0.30	5.1
555550		2.49	<0.001	0.02	0.32	2.5	<10	0.62	0.03	1.94	0.04	8.45	4.8	12	0.13	6.1
555551		2.61	<0.001	0.01	0.09	0.2	<10	0.31	0.03	3.79	0.07	5.37	2.2	6	0.12	2.4
555552		2.43	0.003	0.01	0.11	7.3	<10	0.34	0.02	1.49	0.04	5.47	2.8	6	0.34	3.3
555553		2.42	0.001	0.12	3.76	91.8	170	2.70	0.09	0.76	0.23	37.1	14.9	56	14.40	17.7
555554		3.36	<0.001	0.20	7.91	7.2	450	1.83	0.18	0.85	0.27	56.2	17.2	83	13.60	56.6
555555		2.36	<0.001	0.13	8.19	37.2	430	1.77	0.18	0.36	0.19	53.7	13.3	83	6.66	42.8
555556		2.32	0.001	0.18	8.18	5.9	440	2.14	0.20	0.27	0.17	56.5	19.2	83	4.67	76.6
555557		2.31	<0.001	0.16	8.36	16.1	480	2.22	0.20	0.32	0.42	55.7	17.0	91	4.37	65.4
555558		2.75	<0.001	0.37	8.32	28.7	420	1.84	0.19	0.66	0.48	57.2	17.0	92	4.25	65.8
555559		0.06	2.56	0.44	6.79	12.3	320	1.19	0.16	4.76	0.09	45.8	51.8	319	0.67	80.9
555560		2.99	0.001	0.39	1.05	394	10	0.42	0.03	3.12	0.11	17.90	9.8	21	0.32	52.4



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
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**CERTIFICAT D'ANALYSE VO18222692**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555541		5.62	2.64	<0.05	0.1	0.005	0.012	0.10	3.1	5.5	0.87	1240	0.49	0.01	0.3	5.2
555542		16.60	2.22	0.07	0.4	0.006	0.013	0.17	9.6	5.5	2.65	3870	2.77	0.01	3.5	8.1
555543		17.80	1.27	0.07	0.2	0.014	0.009	0.07	8.3	3.6	3.33	5570	2.57	<0.01	2.0	7.2
555544		17.85	4.59	0.07	0.3	0.007	0.022	0.03	8.7	8.1	3.00	8110	1.49	<0.01	2.6	5.6
555545		21.3	3.21	0.08	0.5	<0.005	0.013	0.02	8.7	3.4	3.19	10900	0.43	<0.01	4.5	10.6
555546		0.25	0.32	0.05	0.1	<0.005	0.007	0.02	1.6	2.7	2.80	200	0.06	0.03	0.2	0.4
555547		21.9	1.12	0.06	0.2	<0.005	0.010	0.01	5.7	1.4	3.27	8150	0.27	<0.01	2.0	5.1
555548		24.3	0.70	0.07	0.1	<0.005	0.008	0.02	5.9	0.9	3.93	7920	0.18	<0.01	2.2	3.7
555549		22.2	1.25	0.06	0.2	<0.005	0.009	0.02	5.1	1.2	3.66	7500	0.21	<0.01	2.1	5.4
555550		18.90	1.97	0.06	0.3	<0.005	0.012	0.01	4.8	1.4	2.96	7400	0.35	<0.01	2.4	6.0
555551		20.6	0.54	0.05	0.1	<0.005	0.007	0.01	3.4	0.8	3.89	6360	0.14	<0.01	0.6	2.1
555552		17.35	0.60	<0.05	0.1	<0.005	<0.005	0.03	3.5	1.1	2.42	6480	0.16	<0.01	0.7	2.9
555553		16.40	12.15	0.09	1.3	0.007	0.039	2.34	19.0	29.0	2.07	7490	0.91	0.01	9.1	32.9
555554		7.05	22.0	0.12	2.5	0.005	0.053	4.37	29.4	54.0	1.43	822	1.95	0.03	7.4	41.6
555555		7.63	23.3	0.10	2.4	<0.005	0.053	3.91	27.6	59.7	1.42	901	1.55	0.03	7.5	37.9
555556		8.69	22.5	0.10	2.2	<0.005	0.053	3.57	30.3	58.0	1.41	872	1.63	0.04	7.2	40.9
555557		8.07	22.9	0.13	2.5	0.016	0.060	3.78	28.9	53.6	1.34	761	2.22	0.06	6.0	48.3
555558		7.61	23.6	0.11	2.9	0.029	0.059	3.59	28.7	54.4	1.50	587	3.54	0.10	3.8	53.2
555559		7.31	19.30	0.10	3.7	0.052	0.060	0.97	22.6	9.2	5.54	1040	3.29	1.93	29.2	346
555560		20.8	4.89	0.08	0.7	0.018	0.023	0.21	9.5	12.7	4.10	15550	1.50	0.06	2.2	56.5



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Page: 2 - C  
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Projet: KAN

**CERTIFICAT D'ANALYSE VO18222692**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555541		20	2.1	3.7	<0.002	1.43	1.52	1.0	1	<0.2	34.0	<0.05	0.10	0.11	0.006	0.08
555542		540	2.3	5.5	0.002	0.92	0.55	1.5	<1	0.2	41.1	0.17	0.09	0.56	0.031	0.18
555543		530	1.3	3.5	<0.002	0.99	0.13	0.6	1	<0.2	72.6	0.17	0.12	0.38	0.013	0.14
555544		790	2.4	1.6	<0.002	0.41	0.21	1.6	1	<0.2	68.5	0.21	<0.05	0.60	0.031	0.06
555545		560	1.6	1.4	<0.002	0.18	0.32	1.8	1	0.2	25.5	0.23	0.06	0.77	0.061	0.07
555546		70	0.8	0.8	<0.002	0.01	0.10	0.2	1	<0.2	86.1	<0.05	<0.05	0.10	0.006	0.02
555547		310	0.8	0.9	<0.002	0.05	0.18	0.7	<1	<0.2	14.7	0.09	<0.05	0.35	0.022	0.03
555548		300	0.9	0.9	<0.002	0.05	0.15	0.4	<1	<0.2	14.3	0.07	0.06	0.34	0.014	0.03
555549		250	0.8	1.1	<0.002	0.07	0.19	0.7	<1	<0.2	15.1	0.09	<0.05	0.30	0.024	0.04
555550		330	1.0	0.4	<0.002	0.14	0.16	0.8	<1	<0.2	20.9	0.12	0.05	0.36	0.028	<0.02
555551		260	0.7	0.4	<0.002	0.04	0.09	0.2	<1	<0.2	38.9	<0.05	<0.05	0.11	0.005	<0.02
555552		320	0.7	1.7	<0.002	0.09	0.12	0.3	<1	<0.2	16.4	<0.05	<0.05	0.13	0.007	0.02
555553		350	5.8	113.0	0.003	1.02	1.31	7.3	1	0.8	24.1	0.58	0.07	3.92	0.173	1.00
555554		170	7.5	187.0	0.006	1.14	1.96	12.3	2	1.5	47.1	0.64	0.10	9.45	0.269	1.95
555555		190	9.1	146.5	0.005	0.80	1.56	11.2	2	1.5	27.8	0.65	0.10	9.14	0.261	1.72
555556		160	4.8	136.5	0.004	1.21	1.43	12.1	2	1.4	18.4	0.65	0.10	9.39	0.260	1.55
555557		210	6.6	137.0	0.005	1.53	1.32	14.5	2	1.4	24.8	0.51	0.08	9.04	0.275	2.24
555558		170	5.1	118.5	0.008	2.45	1.69	15.4	3	1.5	34.9	0.27	0.19	9.28	0.154	3.40
555559		1890	5.0	33.3	<0.002	0.04	0.36	22.5	<1	1.3	474	1.73	0.06	2.75	1.045	0.06
555560		720	5.2	7.3	0.002	2.74	0.79	2.8	1	<0.2	68.6	0.14	0.16	0.87	0.041	0.35



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**CERTIFICAT D'ANALYSE VO18222692**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555541		0.3	20	0.3	2.2	40	3.4
555542		1.1	34	0.4	6.4	27	18.2
555543		0.4	22	0.7	6.9	31	11.6
555544		0.4	60	0.4	6.1	57	15.3
555545		0.6	39	0.5	8.8	14	21.5
555546		0.1	1	0.1	2.7	4	2.0
555547		0.2	18	0.4	7.2	7	7.4
555548		0.1	14	0.3	8.4	6	6.1
555549		0.2	19	0.2	6.3	7	8.4
555550		0.4	21	0.2	5.7	13	11.7
555551		0.1	9	0.1	4.8	15	2.8
555552		0.1	10	0.2	3.6	9	3.4
555553		2.2	118	1.6	5.7	58	47.9
555554		2.5	121	1.4	5.6	144	84.8
555555		2.2	108	1.2	4.9	172	83.8
555556		2.1	125	1.1	4.8	178	74.9
555557		2.6	164	1.1	5.7	200	81.8
555558		3.1	161	0.9	6.1	176	97.8
555559		0.6	146	3.5	21.0	105	148.0
555560		0.7	67	0.2	6.0	69	31.5



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Page: **Annexe 1**  
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**CERTIFICAT D'ANALYSE VO18222692**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
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**CERTIFICAT VO18223086**

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-028

Ce rapport s'applique aux 20 échantillons de rejet soumis à notre laboratoire de Val d'Or, QC, Canada le 9-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
SCR-21	Filtrer à -100 - 106 um
FND-03	Localiser rejet par analyse suppl.
BAG-01	Entreposage pulp de ref.
PUL-32	Pulvériser 1 000 g à 85 % < 75 um
PUL-QC	Test concassage QC
SPL-21	Échant. fractionné - div. riffles
WEI-21	Poids échantillon reçu

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-SCR21	Au essai pyro filtre - 100 - 106 um	WST-SIM
Au-AA25	Teneur marchande Au 30 g fini FA AA	AAS
Au-AA25D	Teneur marchande Au 30 g FA AA dup	AAS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
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**CERTIFICAT D'ANALYSE VO18223086**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-SCR21	Au-SCR21	Au-SCR21	Au-SCR21	Au-SCR21	Au-SCR21	Au-AA25	Au-AA25D
		Poids reçu kg	Au Total ppm	Au (+) F ppm	Au (-) F ppm	Au (+) m mg	WT. + Fr g	WT. - Fr g	Au ppm	Au ppm
		0.02	0.05	0.05	0.05	0.001	0.01	0.1	0.01	0.01
403751		2.14	<0.05	<0.05	<0.05	<0.001	29.52	1006.0	0.04	0.02
403752		2.43	<0.05	<0.05	<0.05	<0.001	23.13	955.4	0.02	0.02
403753		2.70	0.72	0.51	0.74	0.028	54.53	957.2	0.81	0.66
403754		2.33	1.70	11.75	1.03	0.731	62.16	937.3	0.77	1.29
403755		2.39	8.09	27.3	7.17	1.273	46.66	967.5	7.27	7.06
403756		1.88	0.83	2.21	0.74	0.142	64.23	941.4	0.74	0.73
403757		2.22	<0.05	0.13	<0.05	0.009	68.03	967.1	0.03	0.03
403758		2.06	0.18	<0.05	0.19	0.001	58.52	956.2	0.17	0.20
403759		<0.02							2.63	
403760		2.39	0.41	1.54	0.34	0.095	61.52	928.1	0.30	0.37
403761		2.09	4.65	38.3	3.03	1.757	45.93	952.2	2.82	3.24
403762		2.47	4.71	17.30	3.90	1.023	59.07	924.6	3.76	4.04
403763		2.29	6.44	29.8	4.96	1.774	59.45	934.8	4.80	5.11
403764		3.70	2.80	13.80	2.10	0.826	59.80	935.5	2.36	1.84
403765		3.67	<0.05	<0.05	<0.05	<0.001	34.49	951.5	0.01	0.01
403766		<0.02							<0.01	
403767		2.33	<0.05	<0.05	<0.05	<0.001	70.37	937.9	0.01	0.01
403768		2.07	0.13	0.23	0.13	0.010	43.04	942.8	0.13	0.13
403769		1.92	1.44	8.56	1.12	0.372	43.45	963.4	1.06	1.17
403770		2.28	<0.05	<0.05	<0.05	<0.001	40.86	962.7	0.01	0.02



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Page: **Annexe 1**  
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**CERTIFICAT D'ANALYSE VO18223086**

<b>COMMENTAIRE DE CERTIFICAT</b>											
	<b>ADRESSE DE LABORATOIRE</b>										
<p>Applique à la Méthode:</p>	<p>Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">BAG-01</td> <td style="width: 33%;">FND-03</td> <td style="width: 33%;">PUL-32</td> <td style="width: 15%;"></td> <td style="width: 15%;">PUL-QC</td> </tr> <tr> <td>SCR-21</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> <td></td> </tr> </table>	BAG-01	FND-03	PUL-32		PUL-QC	SCR-21	SPL-21	WEI-21		
BAG-01	FND-03	PUL-32		PUL-QC							
SCR-21	SPL-21	WEI-21									
<p>Applique à la Méthode:</p>	<p>Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-AA25</td> <td style="width: 33%;">Au-AA25D</td> <td style="width: 33%;">Au-SCR21</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table>	Au-AA25	Au-AA25D	Au-SCR21							
Au-AA25	Au-AA25D	Au-SCR21									



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Page: 1  
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## CERTIFICAT VO18223930

Projet: Kan

Bon de commande #: KANDH18-102

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Projet: Kan

**CERTIFICAT D'ANALYSE VO18223930**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558021		2.29	<0.001	0.07	0.15	4.1	<10	0.51	0.02	1.06	<0.02	8.55	5.0	8	0.19	2.3
558022		1.50	<0.001	0.10	0.10	<0.2	<10	0.46	0.03	0.88	<0.02	7.32	4.1	6	0.31	0.9
558023		2.31	<0.001	0.06	0.15	2.2	<10	0.36	0.03	1.39	0.02	8.69	4.8	9	0.15	1.3
558024		4.30	0.003	0.20	8.03	3.3	730	1.58	0.17	1.84	0.55	68.6	10.5	64	2.85	36.0
558025		4.50	0.002	0.17	8.33	11.6	750	1.69	0.16	1.32	0.55	68.0	10.3	58	3.37	39.1
558026		4.34	0.002	0.17	8.84	20.0	860	2.01	0.13	0.71	0.69	72.9	9.8	67	3.96	41.8
558027		4.50	0.003	0.33	8.87	0.6	840	1.99	0.27	0.34	0.34	68.1	9.2	64	4.50	47.6
558028		4.39	0.004	0.18	8.76	0.8	810	1.87	0.17	0.31	0.27	77.8	10.0	67	4.75	46.8
558029		0.07	0.682	0.20	7.43	19.9	340	1.50	0.14	4.37	0.19	50.3	41.8	187	1.98	57.3
558030		4.16	0.002	0.13	8.45	1.2	740	1.86	0.14	0.82	0.12	75.1	11.5	64	6.14	35.9
558031		4.45	0.001	0.10	8.83	5.0	780	1.98	0.13	0.70	0.08	78.7	12.7	62	6.77	33.9
558032		4.45	0.003	0.20	8.77	0.3	740	1.92	0.20	1.21	0.29	79.3	11.7	64	5.87	37.7
558033		4.42	0.002	0.15	8.67	0.4	750	1.93	0.15	0.98	0.24	75.5	10.9	64	5.37	39.0
558034		4.39	<0.001	0.10	8.74	2.1	730	2.06	0.16	0.65	0.09	73.9	12.2	63	4.73	44.2
558035		4.27	<0.001	0.15	8.55	4.1	690	2.14	0.19	0.86	0.09	78.5	13.3	61	4.52	47.2
558036		0.25	<0.001	<0.01	0.12	<0.2	20	0.09	0.01	33.1	<0.02	1.47	0.8	2	0.05	1.7
558037		4.11	<0.001	0.11	8.75	7.1	670	2.35	0.15	0.45	0.06	80.7	13.9	63	3.99	33.8
558038		4.34	<0.001	0.10	8.75	9.2	680	2.09	0.18	0.69	0.08	78.8	14.2	63	3.66	30.7
558039		4.35	<0.001	0.08	9.20	4.1	690	1.99	0.14	0.50	0.09	81.8	12.1	62	3.44	43.5
558040		4.55	<0.001	0.07	8.80	3.0	710	2.14	0.38	0.33	0.03	78.2	15.0	64	3.74	59.3



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 25-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18223930**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558021		24.0	1.27	0.08	0.1	<0.005	<0.005	0.01	5.3	1.1	3.25	6370	0.68	<0.01	2.1	3.7
558022		24.9	0.83	0.15	0.1	<0.005	0.005	0.02	4.4	1.6	3.69	6630	0.28	<0.01	1.7	3.7
558023		20.2	1.05	0.11	0.1	<0.005	0.007	0.01	5.3	1.0	2.46	5830	0.63	<0.01	1.2	4.4
558024		3.27	19.40	0.11	4.5	0.031	0.041	4.33	35.6	32.8	1.50	443	2.55	0.55	4.9	35.2
558025		3.23	19.60	0.13	4.7	0.039	0.042	4.37	35.2	32.9	1.32	469	4.03	0.72	4.8	37.7
558026		3.08	21.6	0.13	5.1	0.035	0.044	5.05	37.6	36.7	1.21	329	3.96	0.47	6.3	36.5
558027		3.17	21.8	0.12	4.8	0.019	0.042	4.96	34.4	35.2	1.11	216	3.10	0.59	6.1	36.9
558028		3.19	21.9	0.12	4.7	0.020	0.045	4.92	40.1	34.8	1.09	154	2.99	0.61	6.8	37.8
558029		7.32	19.80	0.09	3.5	0.015	0.070	0.88	22.4	14.2	2.90	951	2.30	1.71	19.4	139.5
558030		3.47	20.7	0.12	4.6	0.009	0.040	4.55	38.1	32.9	1.23	306	1.39	0.91	9.3	33.0
558031		3.53	22.0	0.13	4.6	<0.005	0.042	4.79	39.4	35.8	1.21	278	0.45	0.80	9.5	31.9
558032		3.76	21.3	0.12	4.3	0.008	0.048	4.60	40.8	33.1	1.23	359	1.69	0.89	9.4	35.0
558033		3.73	21.1	0.12	4.5	0.013	0.046	4.68	38.6	34.1	1.25	363	1.48	0.75	9.3	34.2
558034		3.65	21.4	0.12	4.4	0.009	0.044	4.38	37.5	35.3	1.23	292	0.60	0.81	9.1	29.9
558035		3.61	21.1	0.12	4.5	<0.005	0.044	4.08	40.3	36.5	1.23	321	0.54	0.84	9.2	31.3
558036		0.12	0.39	0.13	0.1	<0.005	<0.005	0.04	1.4	1.5	1.65	89	0.05	0.04	0.2	0.7
558037		3.80	22.0	0.15	4.2	0.005	0.045	4.09	40.4	39.8	1.28	327	0.50	0.90	9.5	33.2
558038		3.83	22.3	0.14	4.0	0.009	0.044	4.08	40.4	34.4	1.26	331	0.43	0.78	9.6	34.2
558039		4.07	22.9	0.13	4.5	0.005	0.057	4.05	41.3	35.7	1.39	304	0.36	1.00	9.6	32.4
558040		3.99	22.1	0.13	4.4	0.006	0.061	4.35	39.5	41.4	1.40	273	0.52	0.55	9.6	34.7



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 25-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18223930**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558021		190	0.6	0.7	<0.002	0.08	0.17	0.3	<1	<0.2	11.5	0.11	<0.05	0.22	0.008	0.03
558022		190	0.6	1.2	<0.002	0.01	0.23	0.2	1	<0.2	9.9	0.11	<0.05	0.19	0.006	0.04
558023		290	0.8	0.4	<0.002	0.08	0.21	0.4	1	<0.2	15.1	0.06	<0.05	0.16	0.009	<0.02
558024		300	26.2	138.0	0.006	1.02	1.19	10.0	2	1.2	141.5	0.29	0.06	14.10	0.251	0.58
558025		280	18.2	142.0	0.004	0.97	1.34	9.4	2	1.3	114.0	0.28	0.06	14.45	0.245	0.63
558026		300	20.0	164.5	0.005	0.92	1.26	10.1	2	1.4	76.1	0.36	0.07	15.15	0.284	0.77
558027		290	82.2	165.0	0.006	0.93	1.42	10.0	2	1.4	46.2	0.32	0.13	14.75	0.282	0.82
558028		300	23.9	171.0	0.005	0.95	1.33	9.8	2	1.4	47.1	0.41	0.06	15.80	0.293	0.82
558029		1120	13.7	39.7	<0.002	0.02	0.99	19.6	1	1.7	357	1.12	<0.05	4.87	0.910	0.18
558030		300	18.2	172.0	0.005	0.56	0.81	9.7	1	1.3	83.5	0.66	0.10	14.90	0.321	0.92
558031		310	13.4	178.0	0.003	0.30	0.62	9.9	1	1.4	76.8	0.66	0.09	15.25	0.332	0.98
558032		290	38.8	175.0	0.005	0.83	1.02	10.1	2	1.4	107.5	0.65	0.12	15.65	0.321	0.91
558033		300	20.5	169.0	0.005	0.84	0.92	10.1	2	1.4	85.8	0.64	0.09	14.95	0.326	0.86
558034		300	19.0	157.5	0.004	0.38	0.58	10.0	1	1.4	67.4	0.64	0.09	15.05	0.322	0.80
558035		310	18.5	157.0	0.003	0.30	0.48	10.0	1	1.3	81.3	0.64	0.15	15.15	0.313	0.75
558036		50	0.6	1.3	<0.002	<0.01	<0.05	0.2	1	<0.2	81.4	<0.05	<0.05	0.18	0.008	<0.02
558037		310	14.0	150.0	0.002	0.15	0.39	10.8	1	1.4	49.4	0.65	0.12	15.20	0.330	0.70
558038		310	21.5	151.5	0.002	0.08	0.31	10.6	1	1.5	49.6	0.67	0.09	15.15	0.331	0.68
558039		400	16.7	146.0	0.002	0.13	0.29	10.8	1	1.6	53.0	0.66	0.07	15.95	0.333	0.67
558040		330	11.8	149.5	0.003	0.39	0.40	10.3	1	1.9	37.0	0.66	0.11	15.35	0.330	0.73



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 25-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18223930**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC	
		U	V	W	Y	Zn	Zr	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.01	0.01	
558021		0.1	16	0.3	5.2	8	69.9	98.8	
558022		0.1	12	0.8	4.8	7		99.4	
558023		0.2	18	0.3	6.5	6			
558024		3.2	111	0.8	9.1	91			
558025		3.8	110	0.7	9.8	87			
558026		4.1	136	0.8	10.0	104			
558027		4.0	132	0.8	9.0	79			
558028		3.9	126	0.8	9.3	75			
558029		1.1	147	2.2	19.9	129			
558030		3.3	96	0.8	9.7	87			
558031		2.8	79	0.9	10.1	78			
558032		3.6	105	0.7	10.2	89			
558033		3.4	100	0.7	10.1	87			
558034		2.8	85	0.9	9.6	81	76.4		
558035		2.8	77	0.9	9.9	78			
558036		0.1	1	0.1	2.1	5			
558037		2.9	74	1.0	10.0	82			
558038		2.4	74	1.1	9.7	82			
558039		2.4	76	1.0	9.2	96			
558040		3.4	81	0.9	10.0	79			



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **25-SEPT-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18223930**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							





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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 24-SEPT-2018  
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## CERTIFICAT VO18223932

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Bon de commande #: KANDH18-101

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18223932**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558001		2.31	0.001	0.03	0.12	37.4	<10	0.38	0.01	0.63	<0.02	7.71	2.3	21	0.05	2.8
558002		2.30	<0.001	0.02	0.08	14.7	<10	0.56	0.01	1.81	<0.02	9.24	2.5	16	<0.05	4.7
558003		2.40	<0.001	0.01	0.06	7.5	<10	0.30	<0.01	1.07	<0.02	5.41	1.1	24	<0.05	3.5
558004		2.20	<0.001	0.02	0.08	13.6	<10	0.52	<0.01	0.36	<0.02	6.20	1.6	35	<0.05	1.8
558005		2.49	<0.001	0.01	0.07	13.4	<10	0.54	<0.01	0.56	<0.02	6.74	1.9	23	<0.05	1.8
558006		2.73	<0.001	0.03	0.05	17.6	<10	0.77	<0.01	0.82	<0.02	7.91	2.8	28	0.05	2.9
558007		2.47	<0.001	0.04	0.08	7.6	<10	0.61	<0.01	1.05	<0.02	9.19	3.1	14	0.09	2.0
558008		2.29	<0.001	0.06	0.08	7.7	<10	0.55	<0.01	0.83	<0.02	6.71	2.2	25	<0.05	2.2
558009		0.06	7.51	1.25	5.69	31.3	280	0.96	0.44	2.61	0.08	29.0	39.7	290	0.59	109.0
558010		2.29	0.002	0.01	0.05	4.7	<10	0.53	<0.01	1.57	<0.02	6.64	2.1	21	<0.05	2.2
558011		2.34	<0.001	0.01	0.04	1.6	<10	0.35	<0.01	1.58	<0.02	9.02	2.0	10	<0.05	2.2
558012		2.53	0.001	0.02	0.16	2.1	<10	1.03	0.01	0.78	0.02	9.59	3.1	13	<0.05	3.2
558013		2.43	0.001	0.03	0.37	9.0	<10	0.81	0.02	1.86	0.02	12.50	5.0	15	<0.05	7.1
558014		2.46	<0.001	0.03	0.37	4.4	<10	1.31	0.01	2.00	0.02	11.35	4.7	17	<0.05	3.7
558015		2.54	<0.001	0.03	0.27	1.8	<10	1.23	0.01	1.29	<0.02	11.40	5.2	16	<0.05	4.1
558016		0.30	<0.001	0.01	0.07	0.2	20	0.08	<0.01	34.7	<0.02	0.99	0.5	4	<0.05	2.5
558017		2.84	<0.001	0.01	0.03	6.8	<10	0.43	<0.01	2.11	<0.02	7.28	3.2	10	<0.05	2.2
558018		1.83	<0.001	0.02	0.10	2.7	<10	0.52	<0.01	7.50	0.02	11.35	2.6	6	0.27	1.5
558019		2.36	<0.001	0.01	0.11	1.7	<10	0.68	<0.01	6.63	0.02	10.05	3.4	7	0.12	1.4
558020		2.52	<0.001	0.01	0.10	4.1	<10	0.46	<0.01	4.43	<0.02	8.57	3.8	8	0.06	2.6



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18223932**

Description échantillon	Méthode	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	élément	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	unités	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LDI	0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558001		16.55	1.03	<0.05	<0.1	<0.005	<0.005	0.02	4.5	1.6	2.50	4300	1.58	0.01	0.6	5.7
558002		13.75	0.75	<0.05	0.1	<0.005	<0.005	0.01	5.4	1.4	2.39	3480	1.42	<0.01	0.9	3.8
558003		10.10	0.43	<0.05	<0.1	<0.005	<0.005	0.01	3.1	1.1	1.70	2490	1.74	<0.01	0.4	2.7
558004		9.89	0.64	<0.05	<0.1	<0.005	<0.005	0.01	3.6	1.2	1.47	2490	2.56	<0.01	0.6	4.4
558005		12.20	0.62	<0.05	<0.1	<0.005	<0.005	0.01	3.9	1.1	1.93	3090	1.72	<0.01	0.5	4.3
558006		12.80	0.54	<0.05	<0.1	<0.005	<0.005	0.01	4.5	1.0	2.05	3200	2.28	<0.01	0.5	4.9
558007		18.20	0.91	0.05	<0.1	0.005	<0.005	0.01	5.3	1.3	3.09	4340	1.24	<0.01	0.6	5.2
558008		10.15	0.73	<0.05	<0.1	<0.005	<0.005	0.01	3.9	1.3	1.62	2600	1.91	<0.01	0.6	3.7
558009		5.04	13.60	0.07	2.1	0.150	0.044	0.96	14.3	14.3	3.64	685	5.60	1.09	14.1	229
558010		11.00	0.44	<0.05	<0.1	<0.005	<0.005	0.01	3.8	1.0	1.93	2740	1.63	<0.01	0.5	3.1
558011		22.0	0.49	0.06	<0.1	<0.005	<0.005	0.01	5.4	1.2	4.16	4860	0.84	<0.01	0.5	2.9
558012		22.9	1.19	0.05	0.1	<0.005	<0.005	0.01	5.9	2.3	3.18	5390	1.67	<0.01	1.3	4.4
558013		24.0	2.11	<0.05	0.2	0.006	0.007	<0.01	7.8	3.8	2.85	5390	2.47	<0.01	2.2	8.2
558014		24.4	2.39	0.06	0.2	<0.005	0.009	<0.01	7.1	3.7	2.85	5140	2.89	<0.01	2.0	6.9
558015		21.1	2.43	0.05	0.2	<0.005	0.005	<0.01	7.1	2.7	2.65	5310	1.45	<0.01	3.8	7.1
558016		0.27	0.20	<0.05	<0.1	<0.005	<0.005	0.01	1.1	1.0	1.30	124	0.28	0.03	0.1	0.3
558017		22.0	0.38	0.05	<0.1	<0.005	<0.005	0.01	4.5	0.9	3.32	5470	0.91	<0.01	0.6	4.0
558018		18.90	0.88	0.05	0.1	<0.005	<0.005	0.02	6.9	2.8	4.36	4990	0.42	<0.01	1.3	3.0
558019		20.1	0.91	0.05	0.1	<0.005	<0.005	0.01	6.1	1.7	4.08	5770	0.60	<0.01	1.5	3.0
558020		19.65	0.85	<0.05	0.1	<0.005	<0.005	<0.01	5.3	1.3	3.41	5700	0.65	<0.01	1.1	3.1



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223932**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558001		150	1.0	1.1	<0.002	0.26	0.30	0.5	1	<0.2	4.6	<0.05	<0.05	0.07	<0.005	0.03
558002		150	1.3	0.6	<0.002	0.32	0.32	0.3	1	0.2	9.9	<0.05	0.05	0.09	0.005	0.02
558003		100	0.7	0.4	<0.002	0.10	0.24	0.3	<1	0.2	5.8	<0.05	<0.05	0.05	<0.005	0.02
558004		90	0.9	0.6	<0.002	0.21	0.31	0.4	1	<0.2	2.7	<0.05	<0.05	0.06	<0.005	0.02
558005		100	0.9	0.6	<0.002	0.19	0.31	0.4	<1	<0.2	4.2	<0.05	<0.05	0.06	<0.005	0.02
558006		110	0.8	0.6	<0.002	0.25	0.30	0.3	1	<0.2	5.9	<0.05	<0.05	0.06	<0.005	0.03
558007		160	0.8	0.9	<0.002	0.27	0.24	0.3	1	<0.2	7.8	<0.05	<0.05	0.07	<0.005	0.04
558008		90	0.8	0.5	<0.002	0.23	0.28	0.4	1	<0.2	6.6	<0.05	<0.05	0.06	<0.005	0.02
558009		990	9.0	35.7	<0.002	0.07	0.72	19.0	1	0.9	255	0.85	0.22	2.13	0.616	0.17
558010		100	0.6	0.4	<0.002	0.11	0.21	0.2	1	<0.2	13.6	<0.05	<0.05	0.05	<0.005	<0.02
558011		150	0.5	0.5	<0.002	0.04	0.13	0.3	1	<0.2	18.3	<0.05	<0.05	0.04	<0.005	0.02
558012		240	0.8	0.2	<0.002	0.22	0.20	0.5	1	<0.2	11.2	0.06	0.05	0.15	0.012	<0.02
558013		380	1.3	0.2	<0.002	0.36	0.29	1.0	1	<0.2	28.0	0.11	0.08	0.34	0.029	<0.02
558014		390	1.1	<0.1	0.002	0.25	0.25	1.0	1	<0.2	28.9	0.09	0.05	0.29	0.024	<0.02
558015		240	0.9	0.2	<0.002	0.26	0.24	0.7	<1	<0.2	15.6	0.13	0.05	0.33	0.021	<0.02
558016		60	<0.5	0.4	<0.002	<0.01	0.09	0.2	1	<0.2	82.0	<0.05	<0.05	0.09	0.005	<0.02
558017		360	<0.5	0.3	<0.002	0.03	0.35	0.1	<1	<0.2	12.7	<0.05	<0.05	0.07	<0.005	<0.02
558018		260	1.1	1.7	<0.002	0.03	0.17	0.3	1	<0.2	52.1	<0.05	<0.05	0.18	0.006	0.08
558019		200	1.7	0.5	<0.002	0.02	0.16	0.3	1	<0.2	50.3	0.06	<0.05	0.16	0.008	0.02
558020		210	1.1	0.2	<0.002	0.06	0.17	0.2	1	<0.2	32.4	0.05	<0.05	0.14	0.006	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 24-SEPT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18223932**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Pass2mm % 0.01	Pass75um % 0.01
558001		0.4	13	0.2	3.6	6	3.3	73.0	99.2
558002		0.5	9	0.1	4.6	5	4.1		96.8
558003		0.2	7	0.1	3.0	4	1.8		
558004		0.4	9	0.1	2.3	4	2.9		
558005		0.4	10	0.1	2.8	5	2.8		
558006		0.3	9	0.1	3.3	4	2.8		
558007		0.4	11	0.1	4.0	6	2.8		
558008		0.4	9	0.1	2.9	4	3.3		
558009		0.5	132	8.1	13.4	77	88.8		
558010		0.2	6	0.1	3.8	4	1.8		
558011		0.1	11	0.1	4.8	10	2.2		
558012		0.2	19	0.1	4.6	12	4.7		
558013		0.4	33	0.2	5.8	11	9.9		
558014		0.4	31	0.2	6.1	8	8.1		
558015		0.5	30	0.2	5.2	6	9.9		
558016		0.2	1	0.1	2.1	3	1.3		
558017		0.1	8	0.2	4.7	6	1.9		
558018		0.2	11	0.2	7.8	6	4.5		
558019		0.1	11	0.2	7.1	6	4.3		
558020		0.1	11	0.1	6.0	6	3.7		



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**Page: Annexe 1**  
**Total # les pages d'annexe: 1**  
**Finalisée date: 24-SEPT-2018**  
**Compte: MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223932**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 24-SEPT-2018  
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## CERTIFICAT VO18223949

Projet: Kan

Bon de commande #: KANDH18-104

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223949**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558061		4.75	0.001	0.10	7.08	15.0	30	0.34	0.01	6.65	0.13	9.17	52.1	127	4.39	132.0
558062		4.66	0.003	0.07	6.89	9.3	30	0.26	0.01	6.17	0.15	7.97	47.7	121	2.16	136.5
558063		4.53	0.001	0.06	6.76	18.8	20	0.27	0.01	5.83	0.15	7.68	53.5	108	1.54	145.0
558064		4.66	0.001	0.05	6.73	23.9	10	0.31	0.01	6.14	0.15	7.14	50.0	112	0.53	118.5
558065		4.59	<0.001	0.06	6.45	6.1	40	0.30	0.01	6.98	0.15	8.98	43.8	123	2.98	136.5
558066		4.52	<0.001	0.05	6.63	11.7	50	0.35	0.01	5.46	0.13	8.92	44.6	137	3.67	116.0
558067		4.52	0.001	0.08	6.23	22.7	30	0.45	0.01	5.56	0.27	9.55	43.5	122	1.27	165.0
558068		3.57	0.001	0.06	6.80	17.8	80	0.72	0.01	1.61	0.29	8.75	49.1	153	7.93	129.5
558069		0.06	7.58	1.38	6.21	33.8	320	0.83	0.52	2.92	0.09	32.4	41.1	322	0.72	111.5
558070		3.36	0.002	0.06	6.46	0.5	830	2.29	0.09	0.16	0.03	41.4	24.1	93	1.88	62.0
558071		4.49	0.004	0.09	6.93	0.5	790	2.80	0.17	0.08	0.03	66.0	22.2	95	3.86	51.9
558072		5.18	0.006	0.09	6.85	0.5	730	3.00	0.18	0.13	0.02	71.2	22.4	101	3.53	32.7
558073		4.13	0.001	0.12	6.55	34.9	40	0.64	0.01	4.81	0.19	9.86	45.4	121	2.09	131.0
558074		4.49	0.002	0.07	6.31	28.0	30	0.39	0.01	5.56	0.10	8.84	41.7	117	2.52	131.0
558075		4.40	<0.001	0.08	6.45	37.4	30	0.48	0.01	5.82	0.10	9.69	45.8	113	2.14	119.5
558076		0.35	<0.001	0.01	0.24	1.0	10	0.05	0.01	30.9	0.02	1.26	1.9	5	0.10	3.7
558077		4.58	0.001	0.09	6.53	28.3	20	0.57	0.02	4.27	0.11	16.65	42.8	127	0.43	173.5
558078		4.40	0.002	0.09	6.67	38.4	30	0.45	0.01	3.85	0.13	11.05	46.2	130	2.46	141.5
558079		4.71	0.002	0.07	7.29	34.3	70	0.38	0.01	2.67	0.11	10.75	51.3	144	7.11	146.0
558080		4.69	0.001	0.04	7.03	20.2	70	0.29	<0.01	2.88	0.08	9.50	44.6	135	6.84	113.0





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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18223949**

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558061		9.04	17.45	0.06	0.9	0.037	0.076	0.58	3.2	23.9	4.26	1580	0.28	1.95	3.2	126.0
558062		8.67	15.80	0.06	0.9	0.063	0.069	0.36	2.8	18.6	4.52	1380	0.31	2.31	2.8	139.0
558063		8.89	15.75	0.07	1.2	0.033	0.066	0.26	2.8	26.1	5.13	1420	0.22	1.95	2.7	192.0
558064		8.18	15.15	0.06	0.9	0.026	0.064	0.05	2.6	29.9	4.63	1310	0.26	1.50	2.6	171.0
558065		8.74	16.10	0.06	0.8	0.036	0.073	0.45	3.2	28.8	3.97	1410	0.22	1.33	3.1	81.8
558066		8.96	16.80	0.07	1.0	0.032	0.074	0.58	3.1	29.8	4.08	1220	0.26	1.41	3.3	87.1
558067		9.02	16.05	0.06	1.3	0.018	0.080	0.19	3.3	30.5	4.08	964	0.24	1.13	3.3	75.5
558068		13.80	17.90	0.10	1.7	0.014	0.075	0.91	3.0	46.6	6.06	651	0.26	0.02	3.5	97.2
558069		5.64	16.05	0.07	2.5	0.157	0.051	1.07	16.1	13.3	4.08	733	6.55	1.21	17.3	252
558070		8.94	20.6	0.10	2.3	0.022	0.039	2.50	18.9	31.3	2.04	329	3.14	0.03	17.0	61.1
558071		10.70	21.9	0.12	2.5	0.027	0.057	2.80	31.0	38.7	1.88	671	3.52	0.03	22.2	59.6
558072		11.20	19.95	0.13	2.5	0.040	0.059	2.31	35.7	36.9	1.92	926	3.41	0.02	17.2	59.9
558073		9.88	16.80	0.08	1.7	0.021	0.079	0.26	3.7	43.4	5.13	1020	0.24	0.84	3.0	85.3
558074		8.48	15.80	0.07	1.2	0.032	0.072	0.25	3.1	29.0	4.07	1370	0.21	1.58	3.1	81.5
558075		9.53	16.45	0.06	1.5	0.019	0.073	0.23	3.5	36.4	5.17	1320	0.21	0.94	2.6	84.2
558076		0.39	0.69	<0.05	0.1	<0.005	0.005	0.02	1.3	2.0	1.43	113	0.07	0.05	0.2	2.9
558077		11.45	17.25	0.06	1.6	0.032	0.073	0.06	6.7	31.9	5.36	1080	0.57	0.47	4.0	82.8
558078		10.00	17.55	0.08	1.5	0.019	0.077	0.30	4.0	39.4	6.64	1020	0.49	0.58	2.1	94.9
558079		10.15	18.45	0.09	1.5	0.023	0.083	0.79	3.8	40.8	6.89	774	0.25	0.75	2.5	88.7
558080		9.54	17.85	0.08	1.6	0.028	0.076	0.79	3.2	40.7	6.81	765	0.20	0.70	3.4	90.7



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223949**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558061		360	2.0	35.0	<0.002	0.11	0.77	43.2	1	0.6	197.5	0.19	<0.05	0.24	0.649	0.28
558062		310	2.1	17.9	0.002	0.12	0.87	38.6	1	0.5	182.0	0.18	<0.05	0.21	0.597	0.17
558063		300	1.5	12.4	<0.002	0.05	0.53	37.2	1	0.6	114.0	0.16	<0.05	0.20	0.543	0.12
558064		300	1.6	2.6	0.002	0.04	0.32	35.4	1	0.5	127.0	0.16	<0.05	0.19	0.528	0.03
558065		340	1.9	22.5	<0.002	0.08	0.34	40.6	1	0.6	130.0	0.19	<0.05	0.23	0.640	0.20
558066		380	2.0	28.7	0.002	0.12	0.31	42.3	1	0.6	103.5	0.20	<0.05	0.24	0.660	0.27
558067		370	2.2	8.2	<0.002	0.07	0.27	40.7	1	0.7	106.0	0.20	<0.05	0.24	0.658	0.07
558068		380	0.7	45.7	0.002	0.10	0.19	41.1	1	0.5	27.4	0.21	<0.05	0.28	0.709	0.42
558069		1120	10.0	40.1	<0.002	0.08	0.85	20.8	1	1.1	285	0.98	0.24	2.55	0.685	0.20
558070		260	3.5	31.7	0.008	1.41	0.33	12.5	2	1.2	11.0	1.06	0.07	5.54	0.335	0.21
558071		330	5.6	58.6	0.005	2.12	0.51	13.5	2	1.6	12.5	1.27	0.07	8.27	0.340	0.34
558072		550	8.1	54.5	0.006	1.72	0.84	13.3	2	1.6	11.2	1.06	0.08	8.19	0.335	0.40
558073		370	2.8	11.5	0.002	0.10	0.17	40.6	1	0.4	128.0	0.18	<0.05	0.39	0.573	0.11
558074		350	2.4	13.5	<0.002	0.09	0.12	40.5	1	0.5	159.0	0.19	<0.05	0.23	0.635	0.12
558075		350	2.7	11.6	0.002	0.06	0.14	41.7	1	0.5	159.5	0.17	<0.05	0.25	0.581	0.11
558076		70	0.5	0.6	<0.002	<0.01	0.06	1.4	1	<0.2	82.0	<0.05	<0.05	0.06	0.022	<0.02
558077		370	2.2	2.2	0.002	0.33	0.16	37.3	1	0.4	115.0	0.24	<0.05	1.07	0.504	0.02
558078		370	4.0	14.0	0.002	0.07	0.16	40.8	1	0.5	108.0	0.12	<0.05	0.24	0.383	0.14
558079		420	1.8	39.9	0.003	0.05	0.21	46.0	1	0.6	82.5	0.16	<0.05	0.29	0.631	0.35
558080		390	1.3	38.0	0.003	0.02	0.29	44.6	<1	0.7	84.9	0.22	<0.05	0.25	0.698	0.32



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18223949**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Pass2mm % 0.01	Pass75um % 0.01
558061		0.1	340	0.3	22.6	96	24.4	82.7	90.2
558062		0.1	320	0.3	20.2	97	31.5		91.4
558063		0.1	295	0.3	19.8	97	27.7		
558064		0.1	274	0.6	18.5	95	31.9		
558065		0.1	337	0.7	22.0	93	27.2		
558066		0.1	348	0.5	23.2	78	37.4		
558067		0.1	337	0.5	23.8	81	44.0		
558068		0.1	377	0.2	21.4	106	60.6		
558069		0.6	148	9.5	15.7	85	102.5		
558070		5.4	208	2.7	10.4	88	86.6		
558071		5.8	240	2.6	10.7	111	98.8		
558072		4.7	201	2.2	11.2	111	95.5		
558073		0.1	335	0.7	7.9	87	47.7		
558074		0.1	329	0.3	9.2	83	56.1		93.2
558075		0.1	331	0.7	9.5	85	61.2		96.0
558076		0.2	11	0.3	2.3	5	2.9		
558077		0.6	319	1.0	9.5	89	65.9		
558078		0.1	351	1.8	8.5	94	52.5		
558079		0.1	383	0.6	18.1	95	52.7		
558080		0.1	369	0.5	25.4	88	43.5		



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **24-SEPT-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18223949**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 15%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 24-SEPT-2018  
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## CERTIFICAT VO18223954

Projet: Kan

Bon de commande #: KANDH18-103

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223954**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558041		4.42	0.002	0.29	8.38	23.9	710	1.96	0.75	0.27	0.10	71.5	12.8	74	3.67	150.0
558042		4.61	0.003	0.11	8.49	1.7	700	1.92	0.27	0.40	0.17	76.0	10.6	65	3.71	34.2
558043		4.57	<0.001	0.21	8.24	0.2	730	1.72	0.16	0.83	0.20	71.2	8.7	62	3.78	37.9
558044		4.41	0.002	0.17	8.28	0.6	760	1.56	0.12	0.73	0.16	71.3	8.2	63	4.22	42.2
558045		4.46	0.001	0.19	7.21	11.2	380	1.45	0.12	3.04	0.21	48.5	20.7	81	6.21	67.9
558046		4.50	0.002	0.11	8.40	0.9	440	1.97	0.19	0.37	0.08	59.1	9.1	78	6.66	46.5
558047		3.88	0.001	0.08	8.56	4.4	460	1.93	0.17	0.25	0.03	52.0	10.8	84	5.75	35.7
558048		4.11	0.001	0.07	9.56	<0.2	510	2.54	0.21	0.13	0.04	65.6	10.4	80	7.06	27.4
558049		0.06	2.56	0.47	6.77	11.4	310	1.19	0.16	4.54	0.08	42.6	49.6	304	0.67	79.1
558050		4.42	0.001	0.07	8.93	<0.2	450	2.11	0.18	0.14	0.03	58.3	9.0	77	6.36	26.8
558051		4.34	<0.001	0.07	9.43	5.7	440	2.19	0.16	0.10	0.02	62.8	9.8	81	7.32	23.4
558052		4.15	<0.001	0.11	9.30	1.2	410	2.16	0.22	0.28	0.05	67.6	10.5	85	8.19	26.3
558053		4.41	0.007	0.10	9.05	1.3	430	2.24	0.13	0.14	0.03	61.2	10.5	85	9.11	31.3
558054		4.55	0.001	0.18	8.99	1.6	480	2.11	0.12	0.15	0.05	66.5	11.1	81	9.57	57.7
558055		4.54	0.005	0.28	8.55	1.6	500	2.39	0.19	0.15	1.25	57.4	12.5	89	8.34	65.1
558056		0.22	<0.001	<0.01	0.13	<0.2	20	0.07	0.01	31.9	0.02	1.27	0.5	2	0.08	0.9
558057		4.48	0.009	0.32	8.54	1.8	550	1.91	0.19	0.08	1.46	57.9	15.7	86	5.75	80.1
558058		2.72	<0.001	0.08	7.30	18.6	430	1.14	0.01	1.43	0.08	42.8	23.0	111	4.02	37.7
558059		3.64	0.001	0.24	6.59	41.9	60	0.37	0.02	6.52	0.24	11.85	42.5	108	0.87	145.0
558060		4.40	0.002	0.18	6.52	28.4	20	0.33	0.01	5.84	0.17	8.06	46.6	118	2.18	145.0



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18223954**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558041		3.65	19.30	0.11	4.3	0.029	0.061	4.45	34.7	40.0	1.20	247	0.47	0.40	8.1	37.1
558042		3.91	20.3	0.11	4.5	0.020	0.089	3.99	37.6	37.2	1.20	253	1.29	0.86	8.4	32.1
558043		2.95	20.0	0.11	5.3	0.022	0.039	4.40	35.4	38.9	1.29	293	3.32	0.66	5.2	36.0
558044		2.97	19.70	0.13	4.5	0.014	0.042	4.48	36.5	42.1	1.28	272	3.42	0.45	5.4	36.6
558045		6.80	17.40	0.09	2.7	0.009	0.046	2.75	23.9	44.8	2.26	931	1.56	0.98	4.9	61.2
558046		7.15	20.1	0.10	2.0	0.011	0.047	3.26	30.6	42.7	1.52	432	0.35	0.99	6.9	27.5
558047		6.27	20.9	0.10	2.0	<0.005	0.046	3.63	26.1	40.8	1.49	316	0.29	0.69	7.2	32.7
558048		4.96	24.8	0.12	2.2	<0.005	0.053	4.67	30.9	44.7	1.16	172	0.57	0.52	8.4	31.1
558049		7.24	17.15	0.09	3.2	0.062	0.062	0.96	20.4	9.5	5.31	1020	2.84	1.93	27.5	346
558050		5.17	22.6	0.10	2.1	<0.005	0.046	4.24	29.4	39.5	1.12	225	0.32	0.58	7.6	28.3
558051		4.09	24.3	0.13	2.3	<0.005	0.049	4.96	29.4	39.2	0.96	174	0.52	0.30	8.4	30.7
558052		4.43	23.8	0.12	2.5	<0.005	0.054	4.97	33.3	40.3	1.02	230	0.81	0.31	8.3	31.0
558053		4.53	23.3	0.12	2.4	0.005	0.048	5.00	29.2	41.6	1.04	167	0.71	0.41	8.3	31.0
558054		3.78	23.6	0.12	2.6	0.007	0.045	5.05	32.6	42.5	0.92	183	1.46	0.36	8.2	32.8
558055		5.67	21.7	0.12	2.1	0.059	0.052	4.56	27.9	44.6	1.04	343	2.87	0.15	7.1	39.5
558056		0.15	0.37	0.14	0.1	<0.005	<0.005	0.03	1.2	1.8	2.09	90	0.06	0.05	0.2	0.5
558057		6.38	20.5	0.13	2.2	0.062	0.048	4.10	28.1	38.8	1.20	603	4.10	0.04	7.0	45.9
558058		7.18	17.55	0.07	2.3	0.007	0.047	2.42	20.1	34.2	2.06	1580	3.87	0.35	6.4	45.7
558059		8.66	15.45	0.06	1.1	0.016	0.061	0.32	4.5	36.5	3.98	2030	0.27	1.12	3.5	106.0
558060		8.63	15.05	0.05	0.8	0.033	0.074	0.40	2.8	34.4	4.05	1570	0.21	1.29	2.8	121.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18223954**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558041		330	21.7	137.5	0.002	0.48	0.42	11.9	2	2.1	31.8	0.60	0.50	12.65	0.345	0.72
558042		300	13.5	126.0	0.004	0.54	0.63	9.2	1	3.3	46.4	0.61	0.09	13.75	0.303	0.67
558043		300	30.6	134.0	0.004	0.85	0.92	9.3	1	1.3	65.6	0.34	0.07	14.05	0.244	0.67
558044		270	13.9	141.5	0.007	0.86	1.09	8.9	1	1.3	61.9	0.36	0.06	13.30	0.248	0.66
558045		490	15.0	113.5	0.004	1.14	0.70	16.0	1	1.1	200	0.35	0.11	8.43	0.307	0.66
558046		700	10.8	130.5	0.002	0.44	0.47	9.7	1	1.5	47.8	0.54	0.12	10.85	0.261	0.62
558047		180	16.6	127.5	<0.002	0.29	0.38	12.0	<1	1.3	38.5	0.54	0.09	9.99	0.309	0.57
558048		180	21.1	169.0	0.002	0.30	0.39	11.4	<1	1.6	37.7	0.66	0.08	12.00	0.300	0.67
558049		1780	4.7	29.3	<0.002	0.03	0.35	20.5	<1	1.2	471	1.60	0.10	2.60	1.010	0.07
558050		200	14.5	154.0	<0.002	0.23	0.35	10.2	1	1.5	40.8	0.60	0.09	10.95	0.286	0.59
558051		290	13.3	164.5	0.003	0.13	0.33	11.0	1	1.6	40.3	0.65	0.05	11.75	0.314	0.64
558052		180	20.4	167.0	0.002	0.45	0.40	11.1	1	1.6	53.7	0.65	0.06	12.40	0.316	0.64
558053		250	10.1	167.0	0.003	0.49	0.40	11.2	1	1.6	38.8	0.65	0.06	11.45	0.314	0.74
558054		170	14.5	169.0	0.004	0.58	0.56	10.6	2	1.5	35.6	0.64	0.10	13.10	0.304	0.72
558055		190	13.7	144.5	0.009	1.16	1.01	11.2	3	1.5	26.1	0.61	0.10	10.75	0.247	0.73
558056		50	<0.5	1.1	<0.002	<0.01	0.08	0.3	<1	<0.2	73.5	<0.05	<0.05	0.13	0.009	<0.02
558057		180	12.6	120.0	0.011	1.42	1.12	10.3	3	1.4	17.9	0.60	0.13	10.10	0.249	0.54
558058		260	3.6	74.1	0.006	0.08	0.28	19.5	<1	0.8	35.7	0.50	<0.05	6.27	0.419	0.34
558059		330	5.0	9.8	<0.002	0.03	0.26	36.2	1	0.5	154.0	0.24	<0.05	1.05	0.583	0.06
558060		340	3.5	20.5	<0.002	0.07	0.33	39.8	1	0.6	141.5	0.18	<0.05	0.22	0.612	0.19





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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18223954**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U	V	W	Y	Zn	Zr	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	0.01	0.01
558041		2.4	100	0.9	8.8	92	153.0	71.1	97.1
558042		3.1	91	0.7	8.8	135	163.5		
558043		3.8	114	0.6	8.5	79	191.0		
558044		3.7	117	0.7	8.5	54	160.5		
558045		2.7	143	0.6	9.3	103	96.9		
558046		2.1	71	0.8	7.3	95	67.9		
558047		1.7	91	1.1	5.9	72	71.0		
558048		2.4	78	1.5	6.9	69	76.1		
558049		0.6	143	3.0	19.8	100	134.0		
558050		1.9	80	1.2	6.9	66	69.6		
558051		2.2	80	1.4	8.1	67	83.5		
558052		2.2	93	1.3	7.8	70	84.5		
558053		2.2	95	1.1	7.8	73	84.1		
558054		2.4	89	1.2	7.3	73	91.9		
558055		3.7	170	1.2	7.7	219	68.9		
558056		0.1	2	0.1	2.0	4	2.0		
558057		4.6	216	1.1	8.2	258	74.1		
558058		1.5	167	0.9	10.4	96	81.4		
558059		0.3	305	0.3	22.8	94	52.7		
558060		0.1	325	0.2	20.2	95	32.0		



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **24-SEPT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223954**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 25-SEPT-2018  
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## CERTIFICAT VO18223962

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Bon de commande #: KANDH18-105

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 10-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 25-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223962**

Description échantillon	Méthode	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	élément	Poids reçu	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	unités	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LDI	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558081		4.57	<0.001	0.06	7.13	15.7	130	0.44	0.01	3.33	0.09	9.39	46.2	127	10.45	145.0
558082		4.59	0.001	0.05	6.86	16.4	120	0.54	0.01	4.42	0.12	8.99	44.7	112	9.17	152.5
558083		4.40	<0.001	0.05	7.21	15.1	70	0.35	<0.01	3.76	0.11	6.59	50.1	120	4.83	134.5
558084		4.61	<0.001	0.05	7.53	10.3	170	0.45	0.01	3.69	0.09	8.38	53.8	119	7.94	144.0
558085		4.59	<0.001	0.05	7.22	10.6	60	0.38	0.01	5.40	0.12	8.00	52.0	112	1.83	139.0
558086		4.80	0.001	0.07	7.09	5.5	50	0.48	0.01	6.61	0.14	9.04	47.4	118	1.82	178.0
558087		4.87	<0.001	0.07	7.15	19.8	50	0.45	0.01	6.03	0.13	8.21	56.3	111	1.87	145.5
558088		4.52	<0.001	0.10	6.87	14.0	50	0.36	0.01	6.16	0.17	7.83	47.6	103	2.72	149.5
558089		0.07	0.672	0.19	7.60	20.3	340	1.74	0.13	4.44	0.20	51.8	44.0	185	2.03	58.3
558090		2.62	0.002	0.14	6.81	17.1	50	0.47	<0.01	6.17	0.26	9.27	51.5	113	2.57	163.0
558091		4.01	<0.001	0.04	8.31	0.9	630	2.09	0.05	0.82	0.11	60.1	17.6	96	8.52	29.1
558092		2.41	0.001	0.13	8.62	3.3	580	2.35	0.36	1.38	0.37	61.8	20.6	95	6.63	31.7
558093		4.38	<0.001	0.19	6.83	24.9	40	0.46	0.02	5.54	0.39	7.78	45.3	113	4.31	134.5
558094		4.56	0.001	0.14	6.62	9.2	30	0.37	0.01	6.06	0.14	8.16	44.5	108	5.55	141.0
558095		4.57	<0.001	0.16	6.52	13.9	30	0.32	0.01	7.85	0.18	7.71	42.4	103	3.39	136.0
558096		0.30	<0.001	<0.01	0.16	<0.2	20	0.07	0.01	32.4	0.02	1.11	1.3	3	0.08	3.4
558097		4.53	0.001	0.14	6.85	26.9	330	1.15	0.07	5.42	1.07	22.4	35.9	103	2.07	121.5
558098		4.58	0.004	0.09	8.68	3.2	640	1.80	0.07	0.73	0.62	61.6	14.7	88	7.06	77.9
558099		4.65	0.001	0.15	6.85	5.6	50	0.50	0.01	6.39	0.27	10.40	42.5	118	3.91	149.5
558100		4.72	0.001	0.10	7.29	16.4	20	0.31	0.01	6.64	0.13	8.71	49.3	119	0.84	139.5



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 25-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18223962**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558081		9.23	16.35	0.07	0.8	0.033	0.077	1.36	3.2	52.9	6.20	758	0.23	0.98	3.2	89.4
558082		8.92	15.60	0.08	1.0	0.039	0.076	1.13	3.1	49.0	5.91	952	0.19	1.03	3.1	105.0
558083		8.61	15.10	0.07	0.8	0.029	0.065	0.66	2.3	51.1	6.32	1120	0.16	1.15	2.5	149.5
558084		8.78	15.85	0.07	0.7	0.056	0.069	1.24	2.8	42.2	5.42	1150	0.20	2.12	2.9	167.5
558085		9.07	15.45	0.06	0.5	0.048	0.066	0.36	2.7	31.8	5.05	1440	0.18	2.31	2.7	179.5
558086		9.37	16.20	0.06	0.6	0.051	0.071	0.36	3.0	29.7	4.37	1570	0.20	1.57	3.0	136.0
558087		9.14	15.50	0.05	0.7	0.047	0.068	0.38	2.8	29.6	4.83	1420	0.18	2.02	2.8	158.5
558088		8.68	14.90	0.06	0.8	0.025	0.065	0.48	2.6	42.2	4.74	1440	0.17	1.28	2.6	158.0
558089		7.48	20.2	0.09	3.6	0.019	0.069	0.89	23.1	16.5	2.97	960	1.79	1.74	19.9	141.5
558090		8.99	15.45	0.06	0.9	0.022	0.074	0.47	3.2	41.7	4.15	1620	0.20	1.35	3.1	126.5
558091		8.96	21.4	0.11	2.0	0.013	0.044	3.26	29.8	50.9	2.08	4070	1.19	0.16	9.0	39.4
558092		8.72	21.7	0.13	2.1	0.011	0.065	3.34	29.8	47.6	1.92	8840	0.80	0.05	8.4	44.3
558093		8.86	15.15	0.07	0.8	0.017	0.070	0.66	2.7	47.1	4.40	1810	0.17	1.29	2.7	123.5
558094		8.41	14.65	0.06	0.9	0.029	0.062	0.85	2.8	41.8	4.14	1360	0.17	1.37	2.7	118.0
558095		8.36	14.15	0.06	0.8	0.025	0.065	0.55	2.6	39.6	4.17	1520	0.18	1.26	2.7	119.0
558096		0.22	0.46	0.06	0.1	<0.005	<0.005	0.02	1.2	1.9	1.50	109	0.08	0.05	0.2	2.0
558097		7.88	16.45	0.08	1.2	0.046	0.057	2.00	10.9	42.0	3.17	1400	1.78	0.08	3.9	106.5
558098		5.18	21.3	0.12	2.0	0.040	0.023	4.75	31.8	34.5	1.17	292	3.48	0.09	6.9	49.4
558099		8.89	15.90	0.07	0.6	0.030	0.076	0.78	3.7	34.2	3.89	1380	0.22	1.10	3.1	86.6
558100		8.90	15.50	<0.05	0.8	0.033	0.067	0.21	3.0	20.7	4.70	1420	0.48	1.38	2.8	150.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
558081		380	2.5	58.9	0.002	0.07	0.23	44.8	1	0.5	97.4	0.19	<0.05	0.27	0.696	0.49
558082		390	2.3	47.6	0.002	0.10	0.23	40.7	1	0.5	122.5	0.19	<0.05	0.26	0.654	0.41
558083		300	1.6	27.8	<0.002	0.06	0.23	37.4	1	0.5	92.8	0.16	<0.05	0.19	0.550	0.22
558084		360	1.5	53.1	0.002	0.14	0.33	40.0	1	0.5	94.2	0.17	<0.05	0.23	0.611	0.40
558085		330	1.3	14.7	<0.002	0.06	0.47	39.8	1	0.5	145.0	0.17	<0.05	0.20	0.609	0.11
558086		360	2.6	15.5	0.002	0.13	0.79	43.7	1	0.6	267	0.18	<0.05	0.23	0.660	0.11
558087		320	2.0	16.3	0.002	0.10	0.64	39.9	1	0.6	208	0.17	<0.05	0.21	0.619	0.11
558088		310	4.1	22.4	0.002	0.05	0.26	38.6	1	0.6	147.5	0.16	<0.05	0.19	0.580	0.14
558089		1160	13.8	43.0	<0.002	0.02	0.98	20.4	1	1.7	360	1.13	<0.05	5.14	0.921	0.19
558090		360	1.8	22.2	0.002	0.09	0.22	42.0	1	0.6	146.0	0.19	<0.05	0.30	0.631	0.15
558091		340	3.6	107.5	0.002	0.37	0.24	14.1	1	1.4	31.4	0.61	<0.05	9.92	0.306	0.46
558092		260	7.9	105.5	<0.002	0.41	0.26	16.0	1	1.5	44.3	0.63	0.07	10.15	0.333	0.42
558093		340	5.4	34.3	0.002	0.06	0.19	40.6	1	0.5	167.0	0.17	<0.05	0.24	0.616	0.22
558094		330	3.2	45.4	<0.002	0.13	0.22	39.0	1	0.5	178.5	0.16	<0.05	0.23	0.581	0.28
558095		300	3.2	28.2	<0.002	0.07	0.25	37.8	1	0.5	196.5	0.16	<0.05	0.20	0.574	0.17
558096		50	0.5	0.8	<0.002	<0.01	<0.05	0.8	1	<0.2	84.0	<0.05	<0.05	0.07	0.012	<0.02
558097		260	2.6	36.2	0.005	0.49	0.24	27.7	2	0.8	115.0	0.26	0.05	3.10	0.444	0.16
558098		200	5.4	124.5	0.010	0.81	0.42	11.6	3	0.8	23.6	0.61	<0.05	11.85	0.255	0.48
558099		360	2.2	37.7	0.002	0.09	0.54	41.6	1	0.7	129.5	0.19	<0.05	0.48	0.643	0.21
558100		340	5.2	7.9	0.002	0.10	1.58	37.3	1	0.6	247	0.17	0.05	0.25	0.598	0.06



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 25-SEPT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18223962**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Pass2mm % 0.01	Pass75um % 0.01
558081		0.1	370	0.5	22.1	80	31.5	80.7	91.2
558082		0.1	342	0.6	21.6	86	40.2		
558083		0.1	294	0.5	18.5	85	23.8		
558084		0.1	318	0.4	20.2	88	34.6		
558085		0.1	316	0.3	19.9	96	24.5		
558086		0.1	348	0.4	21.9	99	33.3		
558087		0.1	320	0.7	20.7	97	19.5		
558088		0.1	306	0.6	19.5	96	29.8		
558089		1.1	148	1.9	20.5	130	149.0		
558090		0.1	333	0.5	21.4	101	30.6		
558091		2.8	127	1.2	11.6	132	75.8		
558092		2.2	128	1.5	12.6	190	76.1		
558093		0.1	325	0.4	19.9	102	40.0		
558094		0.1	306	0.5	19.9	89	27.9		
558095		0.1	301	0.9	18.6	92	32.1		
558096		0.1	5	0.1	2.6	5	2.2		
558097		1.7	286	1.7	14.8	166	41.6		
558098		4.7	198	1.4	12.0	170	70.2		
558099		0.1	339	0.3	22.1	103	22.9		
558100		0.1	314	0.2	19.9	96	21.8		



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **25-SEPT-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18223962**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							





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Page: 1  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

**CERTIFICAT VO18223970**

Projet: Kan  
 Bon de commande #: KANDH18-106  
 Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
 SIMON HEBERT  
 LIZ STOCK

KAREN CHIU  
 SIMON HOULE  
 CORPORATIF WEBTRIEVE

PAUL DOBAK  
 LEE SCHOLL

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223970**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558101		4.86	<0.001	0.07	7.70	17.6	20	0.33	0.02	7.18	0.13	8.44	55.9	115	0.80	136.5
558102		4.91	<0.001	0.06	7.39	31.6	10	0.31	0.02	6.60	0.14	7.80	63.3	112	0.59	145.5
558103		4.69	0.002	0.08	7.14	9.7	20	0.36	0.03	6.62	0.15	7.76	48.9	115	2.79	146.0
558104		4.51	0.001	0.10	6.76	14.4	30	0.35	0.02	6.63	0.16	7.26	46.0	125	3.85	150.0
558105		2.02	<0.001	0.05	8.85	12.5	660	1.52	0.05	1.75	0.63	50.9	17.1	97	5.03	35.5
558106		4.26	0.001	0.06	10.10	2.6	680	2.26	0.16	0.12	0.32	71.6	11.6	86	7.26	36.8
558107		4.44	0.001	0.09	10.00	0.8	540	2.21	0.17	0.10	0.06	80.1	11.5	84	7.06	49.4
558108		4.50	0.002	0.08	10.25	0.8	510	2.26	0.11	0.09	0.03	76.8	11.0	89	7.34	51.7
558109		0.06	2.61	0.48	6.95	12.0	320	1.25	0.17	4.71	0.06	44.6	50.5	309	0.70	77.2
558110		4.64	0.002	0.60	9.45	0.2	430	2.23	1.05	0.35	0.15	97.6	11.1	98	7.54	38.0
558111		4.45	<0.001	0.06	8.78	2.6	380	2.06	0.12	0.20	0.05	70.4	9.6	86	6.38	24.4
558112		4.52	<0.001	0.06	10.05	2.2	440	2.14	0.17	0.12	0.02	77.4	9.2	83	6.69	24.4
558113		4.49	<0.001	0.07	10.40	2.0	480	2.34	0.22	0.07	0.03	79.7	10.8	87	7.12	33.4
558114		4.39	0.001	0.10	9.50	0.7	460	2.25	0.22	0.21	0.04	68.6	10.8	84	6.72	43.1
558115		4.48	0.001	0.06	9.28	0.2	490	2.13	0.20	0.06	<0.02	71.8	10.2	80	7.15	32.7
558116		0.29	<0.001	<0.01	0.12	0.4	20	0.08	0.02	34.9	<0.02	1.28	0.6	2	<0.05	0.9
558117		4.56	<0.001	0.09	8.65	<0.2	460	1.88	0.22	0.43	0.04	67.2	8.7	81	7.89	38.1
558118		4.46	<0.001	0.07	8.90	1.7	470	2.19	0.15	0.47	0.05	66.8	10.8	82	8.53	35.7
558119		4.73	<0.001	0.05	9.52	0.7	530	2.17	0.12	0.09	<0.02	73.1	9.3	86	6.02	31.5
558120		4.33	<0.001	0.03	9.57	<0.2	590	2.12	0.13	0.09	0.02	70.2	9.2	90	5.74	26.8



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18223970**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558101		9.22	16.90	0.10	0.8	0.021	0.071	0.25	3.2	19.8	5.29	1520	0.36	1.52	2.9	197.5
558102		9.31	15.75	0.09	0.8	0.028	0.068	0.15	2.9	18.6	5.56	1480	0.52	1.60	2.7	213
558103		8.93	15.35	0.09	0.6	0.027	0.071	0.40	2.9	26.4	4.65	1460	0.22	1.60	2.6	141.5
558104		9.19	15.40	0.08	0.8	0.012	0.073	0.55	2.7	33.0	4.19	1630	0.23	1.27	2.8	117.0
558105		5.12	21.8	0.14	2.5	0.021	0.057	3.56	27.6	31.8	1.47	748	0.36	1.34	7.0	41.9
558106		4.79	25.7	0.18	2.6	0.019	0.053	5.03	38.5	37.4	1.08	369	0.97	0.14	8.7	31.6
558107		4.43	26.2	0.20	2.8	0.014	0.051	5.29	43.8	37.6	1.03	252	1.43	0.08	9.0	35.3
558108		4.23	26.4	0.21	2.8	0.013	0.055	5.36	42.5	36.6	0.99	172	2.94	0.19	9.1	37.3
558109		7.40	17.70	0.14	3.3	0.048	0.062	1.00	23.3	9.0	5.54	1040	2.83	1.98	28.2	349
558110		4.56	24.8	0.20	2.5	0.012	0.056	4.95	53.3	34.8	1.05	229	1.76	0.28	8.4	35.3
558111		4.22	22.1	0.17	2.3	0.009	0.046	4.46	39.6	31.8	0.96	182	1.07	0.29	7.4	26.9
558112		4.86	24.8	0.14	2.2	0.005	0.050	5.05	41.3	35.7	1.15	166	0.42	0.39	8.0	33.3
558113		4.35	25.8	0.16	2.5	0.006	0.052	5.39	42.3	36.5	1.05	146	0.42	0.32	8.6	33.9
558114		5.55	23.7	0.14	2.1	0.009	0.050	4.32	36.9	35.7	1.21	185	0.63	0.84	7.6	35.3
558115		5.53	23.6	0.14	2.2	0.010	0.048	4.34	38.7	38.9	1.21	133	0.37	0.63	7.8	31.9
558116		0.13	0.32	<0.05	<0.1	<0.005	<0.005	0.03	1.3	1.0	1.21	90	0.38	0.04	0.2	0.4
558117		6.61	21.1	0.12	1.9	<0.005	0.044	3.60	36.2	36.3	1.40	453	0.43	0.93	6.9	28.2
558118		6.52	22.6	0.14	2.1	0.008	0.049	3.98	35.8	38.1	1.43	498	0.33	0.93	7.2	33.4
558119		4.97	24.2	0.15	2.5	0.011	0.050	4.57	39.5	35.1	1.14	188	0.87	0.62	8.1	32.5
558120		5.40	24.8	0.15	2.2	0.007	0.057	4.45	36.6	36.7	1.26	198	0.41	0.76	8.2	32.2



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18223970**

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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558101		350	3.7	9.1	<0.002	0.10	1.49	42.2	1	0.6	240	0.19	<0.05	0.25	0.622	0.11
558102		310	3.1	5.4	<0.002	0.09	1.25	40.9	1	0.6	236	0.17	<0.05	0.22	0.595	0.06
558103		320	3.9	20.8	<0.002	0.10	0.57	40.8	1	0.5	174.0	0.17	<0.05	0.22	0.605	0.14
558104		350	4.6	29.5	0.002	0.12	0.23	42.5	1	0.6	154.0	0.18	<0.05	0.24	0.639	0.18
558105		220	6.1	86.4	<0.002	0.11	0.17	16.1	1	1.5	69.9	0.59	<0.05	10.30	0.376	0.39
558106		190	10.4	148.5	<0.002	0.54	0.19	11.4	1	1.7	31.9	0.68	0.07	15.30	0.349	0.60
558107		200	16.1	167.5	0.003	0.69	0.30	12.2	2	1.8	39.3	0.71	0.10	16.50	0.348	0.57
558108		210	10.2	170.0	0.003	0.74	0.35	12.4	2	1.9	46.6	0.71	0.05	16.50	0.353	0.62
558109		1870	5.0	30.6	<0.002	0.03	0.33	22.1	<1	1.3	481	1.65	0.06	3.01	1.085	0.07
558110		470	148.0	173.5	0.002	0.61	0.27	12.2	2	1.9	73.1	0.69	0.34	15.35	0.335	0.66
558111		190	11.7	159.5	<0.002	0.34	0.21	10.8	1	1.6	58.7	0.60	<0.05	13.75	0.294	0.56
558112		210	13.2	181.5	0.002	0.17	0.22	11.3	<1	1.7	57.2	0.64	<0.05	14.90	0.336	0.64
558113		210	18.4	191.0	<0.002	0.24	0.25	12.5	1	1.8	57.2	0.70	<0.05	16.30	0.357	0.65
558114		190	17.3	166.5	0.002	0.32	0.22	10.7	<1	1.6	70.5	0.59	0.05	12.70	0.309	0.60
558115		190	12.9	176.0	0.002	0.28	0.22	11.2	1	1.7	53.3	0.60	0.06	13.10	0.306	0.67
558116		50	0.6	1.0	<0.002	<0.01	0.08	0.3	1	<0.2	87.4	<0.05	<0.05	0.12	0.008	<0.02
558117		880	16.4	158.5	0.002	0.36	0.21	9.8	1	1.5	84.3	0.53	0.08	12.05	0.279	0.68
558118		350	14.2	166.5	0.002	0.51	0.23	10.9	1	1.6	64.3	0.58	0.05	12.45	0.299	0.74
558119		290	6.3	171.0	0.003	0.57	0.22	11.3	1	1.7	50.9	0.64	0.06	15.10	0.321	0.62
558120		180	4.4	162.0	0.002	0.38	0.15	11.4	<1	1.8	43.6	0.62	0.05	14.45	0.322	0.63



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18223970**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Pass2mm % 0.01	Pass75um % 0.01
558101		0.1	311	0.3	21.8	94	20.7	70.9	96.1
558102		0.1	307	0.3	20.7	94	19.5		92.4
558103		0.1	317	0.4	20.0	94	20.2		
558104		0.1	332	0.4	20.8	101	28.6		
558105		1.2	127	1.2	9.9	99	82.6		
558106		2.2	75	1.3	7.3	93	91.7		
558107		2.7	97	1.3	7.6	83	95.5		
558108		2.8	108	1.2	7.3	77	95.7		
558109		0.6	148	3.2	20.6	101	139.0		
558110		2.6	105	1.2	8.2	72	88.1		
558111		2.1	79	1.1	6.3	64	78.9		
558112		2.0	80	1.3	7.0	74	79.7		
558113		2.4	98	1.5	7.5	72	90.8		
558114		2.2	84	1.2	6.8	70	73.4		
558115		2.6	82	1.2	7.6	68	79.5		
558116		0.1	1	0.1	2.2	3	1.6		
558117		2.5	74	0.9	8.7	84	69.0		
558118		1.9	82	1.0	7.7	80	73.4		
558119		2.5	88	1.2	7.5	76	88.7		
558120		2.1	79	1.2	7.5	79	79.5		



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **24-SEPT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223970**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 24-SEPT-2018  
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## CERTIFICAT VO18223978

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Bon de commande #: KANDH18-107

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223978**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558121		4.22	0.002	0.11	8.15	1.6	580	1.64	0.17	1.24	0.11	65.8	11.8	75	4.42	41.0
558122		4.21	<0.001	0.09	8.44	11.2	620	1.80	0.10	1.24	0.11	71.7	17.9	83	3.65	80.1
558123		4.16	<0.001	0.06	8.88	5.2	580	2.02	0.17	0.21	<0.02	87.2	15.0	71	3.05	36.4
558124		4.55	<0.001	0.07	8.01	16.7	490	1.92	0.12	2.62	0.08	53.3	27.9	98	2.46	93.7
558125		4.44	<0.001	0.10	7.23	17.7	310	1.20	0.09	3.82	0.20	39.2	31.6	107	1.58	77.0
558126		4.33	0.002	0.17	8.20	10.7	260	1.30	0.07	2.54	0.27	32.0	39.1	140	1.75	152.5
558127		2.45	0.001	0.10	6.37	20.2	320	1.47	0.13	3.57	0.21	30.9	28.6	109	2.06	50.1
558128		4.22	<0.001	0.05	8.01	9.6	570	1.92	0.04	0.62	0.07	68.5	17.6	82	2.98	60.9
558129		0.06	7.92	1.32	6.04	33.1	310	0.84	0.48	2.82	0.08	31.0	39.5	314	0.66	108.5
558130		4.52	<0.001	0.01	8.50	5.4	600	1.91	0.01	0.47	0.02	95.1	14.0	75	2.60	14.2
558131		2.59	<0.001	0.01	9.69	5.1	810	2.18	<0.01	0.38	<0.02	95.5	13.5	81	2.81	1.8
558132		3.87	0.001	0.03	6.55	7.5	50	0.53	0.01	4.78	0.08	27.5	35.5	68	3.09	67.4
558133		4.27	<0.001	0.05	6.16	6.3	50	0.60	<0.01	4.68	0.10	18.55	44.9	21	3.29	93.1
558134		4.59	<0.001	0.05	6.52	5.1	<10	0.53	0.01	5.30	0.08	14.75	42.5	63	0.27	94.6
558135		4.43	<0.001	0.05	6.31	1.1	10	0.48	0.01	5.26	0.06	18.75	39.9	32	0.34	83.9
558136		0.26	<0.001	0.01	0.12	<0.2	10	0.08	0.01	31.2	<0.02	1.01	0.8	2	<0.05	1.5
558137		4.63	<0.001	0.04	6.42	2.8	10	0.52	0.01	5.68	0.10	12.65	44.4	41	0.26	115.0
558138		4.60	0.002	0.06	6.24	2.0	10	0.44	0.01	5.96	0.10	12.75	45.0	31	0.45	175.5
558139		4.98	<0.001	0.04	6.50	1.1	10	0.43	0.01	5.92	0.07	12.40	43.7	53	0.26	102.5
558140		5.02	0.004	0.02	6.76	1.8	30	0.42	0.01	5.83	0.06	10.50	40.7	118	0.84	86.7





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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18223978**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558121		6.38	19.35	0.09	3.3	0.016	0.046	3.47	34.1	33.6	1.59	911	1.43	0.38	7.6	34.3
558122		4.89	20.9	0.13	3.0	0.012	0.051	3.90	35.4	32.9	1.66	604	0.50	0.37	8.4	47.0
558123		4.41	22.6	0.13	3.2	0.007	0.052	4.15	43.2	30.7	1.35	443	0.40	0.36	10.5	33.3
558124		5.86	20.3	0.11	2.7	0.007	0.056	3.29	25.8	34.4	2.06	1080	0.39	0.38	7.6	54.8
558125		6.68	17.60	0.08	2.2	0.017	0.055	1.83	19.2	33.2	2.80	1200	0.28	0.91	5.5	76.0
558126		9.52	19.25	0.08	2.5	0.033	0.100	1.48	15.0	41.9	3.93	1540	0.23	1.03	5.4	113.0
558127		6.92	17.40	0.07	2.7	0.025	0.061	1.84	14.5	39.7	3.32	2220	0.25	0.49	5.5	75.8
558128		5.14	19.75	0.11	3.1	0.015	0.046	3.29	34.4	31.2	1.89	744	0.80	0.54	7.6	45.6
558129		5.40	14.65	0.07	2.4	0.170	0.046	1.03	14.9	14.6	3.89	733	5.82	1.17	16.4	243
558130		4.33	22.3	0.13	3.1	0.013	0.033	3.60	48.4	30.7	1.44	504	0.77	0.64	10.6	33.2
558131		4.37	25.4	0.14	3.2	0.008	0.018	3.88	46.5	34.0	1.61	451	0.87	1.32	11.8	35.1
558132		9.72	19.05	0.08	1.9	0.005	0.119	0.49	11.6	28.5	3.02	1490	0.45	1.43	6.6	33.0
558133		11.10	19.35	0.05	1.6	0.017	0.115	0.46	6.5	24.9	3.46	1640	0.37	0.85	5.9	37.6
558134		10.15	17.30	0.05	1.0	0.014	0.090	0.05	5.3	14.3	3.98	1660	0.35	1.88	4.6	49.6
558135		10.40	18.55	0.05	1.4	0.012	0.104	0.06	6.6	14.8	3.48	1720	0.36	1.45	6.0	38.1
558136		0.22	0.38	0.09	<0.1	<0.005	0.006	0.01	1.1	1.3	1.33	100	<0.05	0.03	0.2	1.1
558137		10.20	18.45	<0.05	1.0	0.007	0.097	0.05	4.5	14.6	3.69	1650	0.35	1.51	4.2	53.4
558138		9.96	17.05	0.05	1.2	0.013	0.086	0.08	4.6	12.3	3.46	1580	0.38	1.54	4.4	46.9
558139		9.60	17.90	0.06	1.2	0.009	0.095	0.06	4.4	11.5	3.66	1540	0.26	1.82	4.3	59.9
558140		8.75	16.90	0.05	1.2	0.006	0.085	0.16	3.8	12.6	3.69	1490	0.24	2.16	3.8	70.4



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18223978**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558121		1030	19.3	132.0	0.004	0.72	0.21	10.3	1	1.4	91.6	0.57	0.09	12.75	0.293	0.56
558122		330	14.5	126.0	<0.002	0.16	0.11	15.8	1	1.4	78.5	0.62	0.11	11.00	0.380	0.60
558123		350	15.7	137.5	<0.002	0.12	0.10	11.8	<1	1.6	24.1	0.74	0.16	13.65	0.357	0.60
558124		340	12.3	80.0	<0.002	0.13	0.10	22.6	<1	1.2	85.4	0.57	0.08	7.62	0.447	0.48
558125		310	20.7	50.6	0.002	0.05	0.08	26.3	1	1.3	103.5	0.38	0.06	5.06	0.479	0.27
558126		350	22.9	43.5	0.002	0.16	0.13	33.8	1	3.1	66.1	0.38	0.08	4.88	0.543	0.25
558127		310	18.2	32.7	<0.002	0.01	0.09	20.8	1	2.2	77.5	0.41	0.11	4.12	0.419	0.33
558128		350	5.8	105.0	0.002	0.11	0.09	13.5	1	1.5	23.4	0.57	<0.05	10.55	0.342	0.49
558129		1060	9.4	36.3	<0.002	0.08	0.75	19.9	<1	0.9	275	0.92	0.25	2.21	0.642	0.19
558130		340	3.3	119.0	<0.002	0.02	0.11	11.7	<1	1.5	23.9	0.76	<0.05	13.40	0.351	0.45
558131		380	3.8	114.5	<0.002	<0.01	0.10	13.4	<1	1.1	32.7	0.86	<0.05	14.85	0.387	0.48
558132		680	2.1	29.7	0.002	0.05	0.10	37.9	<1	1.2	73.1	0.42	<0.05	2.06	0.902	0.19
558133		650	1.6	28.7	0.002	0.04	0.15	45.1	<1	1.2	92.0	0.37	<0.05	0.68	1.080	0.19
558134		560	2.2	1.6	0.004	0.03	0.23	43.5	1	0.8	133.0	0.29	<0.05	0.54	0.915	<0.02
558135		700	2.1	2.3	0.003	0.11	0.24	42.2	1	0.9	113.5	0.38	<0.05	0.60	0.963	0.02
558136		50	1.1	0.3	<0.002	<0.01	0.05	0.6	<1	<0.2	76.6	<0.05	<0.05	0.07	0.013	<0.02
558137		500	2.5	1.5	0.002	0.07	0.28	45.7	1	0.8	148.5	0.27	<0.05	0.42	0.929	<0.02
558138		540	2.3	3.0	0.003	0.21	0.24	43.0	1	0.8	133.5	0.29	<0.05	0.40	0.954	0.02
558139		520	2.0	1.7	0.003	0.09	0.23	45.2	1	0.7	116.0	0.28	<0.05	0.36	0.871	<0.02
558140		470	1.9	6.5	0.002	0.06	0.21	43.8	1	0.7	111.0	0.25	<0.05	0.31	0.796	0.04



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18223978**

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		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Pass2mm % 0.01	Pass75um % 0.01
558121		3.0	89	0.9	9.5	98	120.0	72.5	96.3
558122		1.9	114	0.9	10.1	89	106.5		
558123		2.3	68	1.0	11.5	74	119.0		
558124		1.5	163	0.9	8.4	83	91.7		
558125		1.2	207	0.6	11.0	111	75.8		
558126		0.9	264	0.5	18.0	143	92.2		
558127		0.9	182	0.6	14.6	148	94.4		
558128		1.8	100	0.9	14.3	103	110.5		
558129		0.5	141	8.6	14.6	81	95.7		
558130		2.3	68	1.0	16.3	50	110.0		
558131		2.6	76	1.4	19.3	39	112.5		
558132		0.4	314	0.3	34.6	101	76.9		
558133		0.2	493	0.4	34.0	112	45.2		
558134		0.2	435	0.3	28.2	103	33.5		
558135		0.2	405	0.3	35.0	102	49.7		
558136		0.1	5	<0.1	2.2	5	1.9		
558137		0.1	491	0.3	27.7	102	25.9		
558138		0.1	478	0.3	27.2	99	27.0		
558139		0.1	424	0.3	27.7	93	37.8		
558140		0.1	390	0.3	24.3	84	36.6		



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18223978**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
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## CERTIFICAT VO18223983

Projet: Kan

Bon de commande #: KANDH18-109

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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**CERTIFICAT D'ANALYSE VO18223983**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558161		4.74	<0.001	0.03	6.40	6.5	50	0.23	0.02	6.14	0.09	4.55	83.8	282	0.28	58.9
558162		4.82	<0.001	0.03	6.00	0.4	50	0.22	0.02	5.47	0.07	4.27	79.1	193	0.32	45.7
558163		4.90	<0.001	0.03	6.47	0.3	70	0.19	0.05	5.94	0.08	3.87	65.9	204	0.30	68.3
558164		4.79	<0.001	0.05	5.84	<0.2	30	0.17	0.04	5.62	0.11	3.87	77.5	239	0.22	145.0
558165		4.54	<0.001	0.03	6.28	0.2	50	0.22	0.05	5.97	0.08	4.41	76.3	221	0.28	71.2
558166		4.74	<0.001	0.03	6.43	0.3	50	0.19	0.05	5.90	0.08	4.23	74.5	207	0.25	66.4
558167		4.61	<0.001	0.04	6.23	<0.2	30	0.17	0.04	5.57	0.12	3.97	71.5	195	0.26	122.5
558168		4.67	<0.001	0.04	6.04	<0.2	20	0.18	0.04	5.56	0.10	4.10	78.5	223	0.24	89.0
558169		0.07	2.54	0.42	6.75	11.4	320	1.10	0.17	4.64	0.07	41.3	50.0	330	0.62	77.9
558170		4.64	<0.001	0.04	6.09	1.2	30	0.21	0.04	5.68	0.11	4.22	76.4	227	0.25	87.3
558171		4.69	<0.001	0.04	5.97	0.8	20	0.19	0.04	5.74	0.08	3.93	79.0	287	0.23	73.8
558172		4.69	<0.001	0.02	5.27	0.6	30	0.23	0.03	5.36	0.09	5.02	88.4	242	0.27	51.2
558173		4.76	0.001	0.01	5.95	0.5	30	0.25	0.03	5.67	0.04	4.43	83.7	249	0.26	12.5
558174		4.65	<0.001	0.03	6.25	0.4	20	0.25	0.03	5.75	0.07	4.70	82.5	317	0.25	56.2
558175		4.73	<0.001	0.02	5.91	0.3	30	0.17	0.03	5.55	0.06	4.33	82.1	276	0.26	39.2
558176		0.23	<0.001	<0.01	0.17	<0.2	20	0.05	0.02	31.7	<0.02	0.95	2.0	8	<0.05	3.6
558177		4.55	<0.001	0.04	5.81	0.4	20	0.17	0.04	5.59	0.13	4.16	78.6	234	0.24	115.0
558178		4.68	<0.001	0.03	5.89	0.4	40	0.17	0.03	5.71	0.10	4.43	80.0	242	0.29	55.0
558179		4.72	<0.001	0.03	5.91	0.4	80	0.22	0.03	5.84	0.08	4.73	77.4	262	0.39	58.7
558180		4.75	<0.001	0.03	5.84	0.6	40	0.20	0.02	5.52	0.11	3.99	81.6	259	0.24	70.0



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18223983**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558161		8.54	13.10	0.06	0.5	0.012	0.043	0.19	1.6	30.2	8.38	1470	0.17	0.67	1.7	526
558162		8.20	11.90	0.06	0.4	0.011	0.040	0.19	1.5	29.8	8.43	1410	0.11	0.70	1.7	490
558163		7.49	12.40	0.08	0.4	0.010	0.042	0.26	1.4	27.2	6.86	1190	0.14	1.02	1.6	414
558164		8.23	11.35	0.08	0.4	0.009	0.038	0.13	1.3	30.5	7.78	1340	0.17	0.77	1.5	485
558165		8.18	12.50	0.09	0.5	0.015	0.067	0.19	1.5	31.8	8.21	1320	0.17	0.69	1.7	494
558166		7.95	12.95	0.08	0.4	0.009	0.041	0.18	1.5	30.3	7.42	1270	0.31	0.91	1.6	453
558167		7.83	11.95	0.07	0.4	0.010	0.038	0.14	1.4	30.7	7.34	1260	0.16	1.04	1.5	433
558168		8.43	11.85	0.07	0.4	0.010	0.044	0.10	1.4	32.5	8.19	1370	0.13	0.85	1.6	496
558169		7.33	16.95	0.14	3.1	0.048	0.058	0.97	20.7	9.7	5.44	1010	3.00	1.95	27.8	345
558170		8.03	12.35	0.07	0.4	0.011	0.040	0.11	1.5	32.0	7.98	1340	0.15	0.80	1.6	478
558171		8.37	12.85	0.07	0.4	0.014	0.042	0.10	1.4	33.2	7.96	1360	0.12	0.68	1.6	503
558172		8.70	10.35	0.07	0.6	0.012	0.036	0.11	1.7	33.8	9.51	1410	0.15	0.38	1.8	616
558173		8.94	12.60	0.07	0.5	0.007	0.050	0.10	1.5	36.1	9.15	1440	0.09	0.50	1.7	565
558174		8.80	12.90	0.08	0.5	0.009	0.048	0.10	1.6	34.4	8.50	1420	0.12	0.75	1.9	521
558175		8.72	11.70	0.07	0.6	0.008	0.041	0.11	1.5	34.7	8.80	1410	0.10	0.66	1.7	550
558176		0.25	0.39	<0.05	<0.1	<0.005	0.005	0.01	1.1	2.1	1.75	105	0.05	0.03	0.2	9.0
558177		8.12	11.50	0.06	0.4	0.019	0.044	0.09	1.4	32.5	8.07	1340	0.17	0.82	1.6	505
558178		8.30	11.55	0.06	0.4	0.019	0.038	0.15	1.5	34.3	8.43	1360	0.14	0.78	1.7	507
558179		8.09	12.65	0.08	0.6	0.012	0.048	0.29	1.5	32.8	8.25	1350	0.07	0.68	2.1	503
558180		8.28	12.15	0.07	0.5	0.010	0.044	0.15	1.4	34.0	8.26	1360	0.22	0.71	1.6	524



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18223983**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558161		220	2.3	5.3	<0.002	0.02	0.25	12.5	<1	0.4	102.0	0.11	<0.05	0.10	0.350	0.03
558162		210	1.9	5.4	<0.002	0.02	0.21	13.2	<1	0.3	70.1	0.11	<0.05	0.12	0.322	0.02
558163		220	3.2	6.4	<0.002	0.05	0.23	10.8	<1	0.4	128.5	0.12	<0.05	0.10	0.331	0.04
558164		190	2.4	3.4	<0.002	0.07	0.20	10.2	1	0.4	95.0	0.10	<0.05	0.09	0.323	0.02
558165		180	2.5	5.0	<0.002	0.04	0.22	13.9	1	0.4	98.5	0.11	<0.05	0.12	0.332	0.02
558166		210	3.1	4.4	0.002	0.06	0.23	12.0	1	0.4	122.0	0.10	<0.05	0.10	0.325	0.02
558167		210	2.5	3.8	<0.002	0.05	0.19	11.1	1	0.4	103.5	0.10	<0.05	0.09	0.303	0.02
558168		200	2.3	2.8	<0.002	0.06	0.18	12.7	1	0.4	90.7	0.10	<0.05	0.09	0.321	0.02
558169		1850	4.7	28.4	<0.002	0.03	0.30	19.8	<1	1.2	477	1.53	0.08	2.62	1.040	0.06
558170		200	2.4	3.0	<0.002	0.03	0.20	12.5	1	0.4	103.0	0.11	<0.05	0.11	0.320	0.02
558171		200	2.6	2.7	<0.002	0.06	0.22	10.6	1	0.4	114.5	0.11	<0.05	0.08	0.319	0.02
558172		240	1.2	3.2	<0.002	0.06	0.14	15.1	1	0.4	49.9	0.12	<0.05	0.15	0.315	0.02
558173		220	1.7	2.7	<0.002	0.03	0.16	12.8	<1	0.4	78.2	0.12	<0.05	0.09	0.334	<0.02
558174		220	2.4	2.7	<0.002	0.08	0.19	12.7	1	0.4	98.7	0.12	<0.05	0.11	0.385	<0.02
558175		200	1.9	3.2	0.002	0.05	0.18	12.6	1	0.4	83.5	0.11	<0.05	0.10	0.338	0.02
558176		80	<0.5	0.3	<0.002	<0.01	<0.05	0.6	1	<0.2	85.8	<0.05	<0.05	0.07	0.010	<0.02
558177		250	2.3	2.2	0.002	0.04	0.18	10.1	1	0.4	95.1	0.11	<0.05	0.10	0.293	<0.02
558178		230	2.0	4.6	<0.002	0.03	0.19	11.0	<1	0.4	87.7	0.11	<0.05	0.10	0.309	0.03
558179		230	2.3	7.9	<0.002	0.03	0.15	11.2	1	0.4	97.3	0.15	<0.05	0.12	0.361	0.04
558180		190	2.3	4.2	0.002	0.05	0.17	11.5	1	0.4	93.0	0.11	<0.05	0.08	0.325	0.02





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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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CERTIFICAT D'ANALYSE VO18223983
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Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC	
		U	V	W	Y	Zn	Zr	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.01	0.01	
558161		<0.1	175	0.1	9.9	95	85.5	93.2	
558162		<0.1	160	0.1	10.1	91		90.3	
558163		<0.1	168	0.1	8.5	80			
558164		<0.1	169	0.1	8.2	94	78.6		
558165		<0.1	167	0.1	9.9	92			
558166		<0.1	167	0.1	9.1	91			
558167		<0.1	164	<0.1	8.5	91			
558168		<0.1	171	0.1	9.2	96			
558169		0.6	148	3.0	19.8	103			
558170		<0.1	171	0.1	9.3	94			
558171		<0.1	167	0.1	8.5	95			
558172		<0.1	157	0.1	10.5	97			
558173		<0.1	174	0.1	10.3	97			
558174		<0.1	191	0.1	10.3	96			
558175		<0.1	175	<0.1	9.5	98			
558176		0.2	4	0.1	2.0	4		1.5	
558177		<0.1	156	<0.1	9.0	95		14.2	
558178		<0.1	161	<0.1	9.0	97		13.6	
558179		<0.1	171	<0.1	11.2	96		18.4	
558180		<0.1	168	<0.1	8.6	103		11.8	



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
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**CERTIFICAT D'ANALYSE VO18223983**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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## CERTIFICAT VO18223985

Projet: Kan

Bon de commande #: KANDH18-112

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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À: **MINIÈRE OSISKO INC.**  
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**BUREAU 200**  
**QUEBEC QC G1K 7R1**

Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223985**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558221		4.41	<0.001	0.01	8.26	4.7	660	1.37	0.01	0.74	0.03	85.6	12.6	67	4.30	6.0
558222		4.45	0.003	0.02	8.54	7.4	650	1.92	0.04	0.30	0.02	77.8	13.2	67	3.73	21.6
558223		4.31	<0.001	0.06	7.49	30.5	460	1.15	0.07	1.95	0.15	50.3	27.4	95	2.40	47.6
558224		4.59	<0.001	0.04	7.76	14.2	520	1.63	0.11	0.75	0.05	53.7	19.4	95	3.17	53.2
558225		4.44	<0.001	0.03	8.63	0.7	420	1.99	0.15	0.11	<0.02	68.4	10.6	82	4.51	32.7
558226		4.48	0.009	0.08	8.99	4.6	410	1.92	0.12	0.10	0.31	72.7	9.6	85	5.26	43.0
558227		2.24	0.004	0.31	8.09	10.1	330	2.04	0.12	0.71	1.89	60.1	8.2	80	5.08	108.5
558228		2.46	0.040	1.36	2.26	273	90	0.70	0.25	4.35	8.10	47.1	9.1	42	2.11	224
558229		0.06	2.52	0.42	6.62	10.8	310	0.98	0.16	4.55	0.07	39.3	48.2	313	0.63	79.9
558230		4.52	0.039	1.04	5.19	82.3	130	1.34	0.30	1.57	7.45	48.3	26.8	67	3.54	201
558231		4.51	0.021	0.44	8.24	61.9	230	1.52	0.26	0.74	2.70	56.8	27.9	100	3.79	81.0
558232		5.45	0.022	1.40	4.87	34.8	160	1.39	0.79	0.73	9.78	52.9	33.5	64	2.48	217
558233		2.51	0.007	0.80	3.43	1.8	140	1.29	0.28	0.97	3.89	35.3	24.9	58	1.65	309
558234		3.94	0.003	0.24	7.30	60.3	380	2.52	0.14	1.20	0.38	54.7	26.5	115	24.1	39.1
558235		4.00	0.023	1.14	8.18	80.4	250	1.35	0.30	1.15	2.77	53.2	28.4	96	5.40	93.8
558236		0.22	0.003	0.01	0.22	5.9	20	0.18	0.01	30.9	0.03	1.27	0.6	2	0.07	0.9
558237		4.80	0.036	1.26	7.27	83.1	210	1.06	0.22	1.08	2.64	48.0	21.7	101	4.88	137.5
558238		4.91	0.024	0.90	7.87	67.6	220	1.09	0.18	1.28	2.66	65.5	18.7	82	5.15	115.5
558239		4.85	0.029	1.21	8.62	88.1	230	1.21	0.24	0.93	3.00	62.0	22.6	90	5.32	105.0
558240		4.70	0.024	1.02	7.87	71.0	210	1.43	0.19	1.05	3.31	56.2	20.9	86	4.96	177.5



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18223985**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558221		4.03	21.2	0.13	3.4	<0.005	0.027	4.09	45.2	50.4	1.56	454	0.26	0.07	10.0	31.5
558222		4.04	21.8	0.12	3.1	<0.005	0.042	4.22	39.6	47.2	1.54	296	0.31	0.05	9.5	33.6
558223		5.86	18.15	0.10	2.7	0.006	0.052	2.86	26.3	47.7	2.69	655	0.31	0.05	5.7	56.3
558224		5.57	19.90	0.11	2.7	<0.005	0.052	3.33	27.5	42.2	1.75	505	0.55	0.06	6.0	41.4
558225		4.49	23.0	0.11	2.4	0.011	0.052	4.11	35.7	37.4	1.06	182	1.24	0.09	7.7	31.5
558226		4.53	24.0	0.11	2.6	0.035	0.050	4.53	38.9	34.7	0.97	180	3.61	0.22	7.1	40.7
558227		7.59	20.9	0.12	2.8	0.134	0.061	4.20	32.8	35.6	0.93	535	15.60	0.10	5.2	94.1
558228		15.95	6.33	0.12	1.1	0.569	0.091	1.14	29.9	10.1	1.87	3920	108.0	0.05	3.5	233
558229		7.11	16.60	0.09	3.2	0.048	0.057	0.93	19.9	8.3	5.30	1020	2.85	1.88	26.5	340
558230		14.50	12.80	0.11	2.1	0.687	0.091	2.67	29.7	19.7	0.94	1300	71.6	0.05	5.5	192.0
558231		9.90	20.4	0.10	5.2	0.398	0.113	4.09	31.1	24.1	0.76	362	12.45	0.42	17.1	119.5
558232		21.8	14.90	0.11	2.7	1.010	0.253	2.45	29.5	22.5	0.89	599	16.30	0.05	7.0	132.5
558233		24.9	10.75	0.10	1.6	0.377	0.125	1.62	19.9	19.2	1.08	1060	12.30	0.03	2.4	132.5
558234		8.89	19.40	0.10	2.3	0.010	0.059	4.44	27.8	50.3	1.66	505	2.89	0.02	15.4	65.9
558235		11.60	21.3	0.12	4.1	0.263	0.109	3.90	29.0	25.3	0.86	324	15.55	0.15	9.5	123.5
558236		0.18	0.71	0.11	0.1	<0.005	0.006	0.05	1.3	1.3	1.24	91	0.17	0.09	0.4	0.7
558237		13.35	19.35	0.11	4.0	0.291	0.104	3.40	24.8	22.4	0.80	310	13.30	0.16	9.7	155.0
558238		10.65	20.6	0.11	4.7	0.271	0.103	3.48	36.6	18.4	0.81	276	12.95	0.28	12.4	124.0
558239		10.75	22.4	0.12	4.0	0.366	0.099	3.54	36.0	19.5	0.78	316	15.25	0.68	10.5	121.0
558240		11.55	19.95	0.10	3.3	0.316	0.077	3.25	32.9	21.0	0.83	481	15.15	0.53	8.0	136.0



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18223985**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558221		350	3.3	111.5	<0.002	<0.01	0.62	11.1	1	1.5	22.4	0.74	<0.05	13.75	0.338	0.77
558222		350	2.7	110.0	<0.002	0.03	0.60	11.7	<1	1.4	15.1	0.70	0.05	12.35	0.340	0.89
558223		380	4.4	78.4	0.002	0.04	0.40	22.9	<1	1.0	48.7	0.42	0.08	8.16	0.369	0.73
558224		320	3.9	91.6	0.002	0.51	0.68	16.2	1	1.3	41.9	0.42	0.07	9.41	0.349	1.18
558225		330	4.3	136.0	0.002	0.52	1.30	10.6	1	1.6	24.0	0.62	0.05	12.50	0.289	1.92
558226		320	8.3	145.5	0.004	1.35	2.61	11.0	2	1.6	24.2	0.48	0.07	13.70	0.245	2.61
558227		560	26.3	120.0	0.012	4.67	8.57	10.7	5	1.7	40.9	0.28	0.07	9.94	0.171	3.10
558228		3450	115.0	36.0	0.064	9.45	33.9	4.9	13	0.8	143.0	0.19	0.27	2.67	0.071	1.28
558229		1810	4.8	28.9	<0.002	0.04	0.36	19.7	1	1.2	462	1.55	0.09	2.48	1.015	0.05
558230		1310	81.9	69.4	0.057	>10.0	26.8	9.5	11	1.4	53.4	0.32	0.48	3.84	0.161	2.75
558231		340	35.5	86.1	0.018	8.25	14.10	18.2	5	2.8	35.3	1.07	0.61	5.06	0.354	3.73
558232		180	280	65.7	0.019	>10.0	13.80	8.5	7	5.6	32.3	0.45	1.42	4.50	0.122	2.57
558233		290	30.4	46.9	0.016	>10.0	5.63	6.9	7	3.8	39.2	0.12	1.17	3.01	0.075	1.60
558234		320	12.1	192.0	0.007	1.93	2.81	18.5	2	1.3	55.6	0.98	0.07	7.12	0.420	1.86
558235		300	37.5	92.6	0.025	9.38	11.50	16.8	4	2.1	44.1	0.59	0.52	4.57	0.255	5.49
558236		40	0.7	1.7	<0.002	0.04	0.11	0.3	1	0.2	76.9	<0.05	<0.05	0.10	0.007	0.04
558237		300	45.5	73.7	0.019	>10.0	12.75	14.7	5	1.9	44.3	0.65	0.47	4.08	0.236	5.46
558238		280	27.9	86.4	0.015	8.60	9.36	13.9	4	2.1	48.4	0.80	0.37	5.58	0.238	5.59
558239		230	34.0	90.9	0.022	9.19	12.20	16.0	4	2.0	56.6	0.69	0.54	5.22	0.275	6.42
558240		230	31.9	86.6	0.022	9.07	9.58	16.4	6	1.7	59.0	0.49	0.39	4.46	0.248	5.92



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18223985**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U	V	W	Y	Zn	Zr	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	0.01	0.01
558221		2.2	66	1.0	10.6	22	118.0	74.3	98.0
558222		2.2	75	1.1	7.9	44	108.0		98.8
558223		1.8	175	0.7	6.5	67	99.6		
558224		1.8	134	0.8	6.1	90	98.1		
558225		2.1	90	1.1	5.8	75	79.5		
558226		3.2	94	1.0	6.2	118	90.7		
558227		8.0	174	1.7	8.5	362	97.4		
558228		41.9	792	2.2	24.2	1440	47.8		
558229		0.6	145	3.0	19.1	103	130.5		
558230		31.4	658	2.5	17.7	1410	79.9		
558231		12.8	200	1.4	14.6	614	196.0		
558232		8.5	140	0.8	6.9	2040	100.0		
558233		4.9	95	0.8	4.9	830	60.9		
558234		4.7	270	2.4	7.2	129	85.4		
558235		14.6	231	2.0	10.9	661	146.0		
558236		0.2	2	0.1	2.5	9	2.5		
558237		14.4	182	1.5	10.7	646	147.5		
558238		11.4	190	1.9	12.8	691	169.5		
558239		14.3	228	1.7	11.3	727	141.0		
558240		12.7	207	2.7	10.5	686	120.0		



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **24-SEPT-2018**  
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**CERTIFICAT D'ANALYSE VO18223985**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							





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Page: 1  
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## CERTIFICAT VO18223988

Projet: Kan  
Bon de commande #: KANDH18-111  
Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18223988**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558201		4.78	0.002	0.06	8.18	0.3	10	0.30	0.01	7.20	0.23	7.39	51.7	309	0.34	292
558202		4.90	<0.001	0.04	8.32	0.2	10	0.32	0.01	7.67	0.08	6.09	43.0	320	0.26	113.0
558203		4.70	<0.001	0.04	6.77	0.6	90	0.44	<0.01	5.65	0.10	15.30	47.5	73	5.99	127.0
558204		4.72	<0.001	0.04	6.66	<0.2	10	0.44	<0.01	6.96	0.17	12.90	47.0	70	0.63	146.0
558205		4.83	<0.001	0.06	6.76	0.2	<10	0.28	<0.01	6.98	0.16	8.36	50.1	122	0.23	171.5
558206		4.70	<0.001	0.04	7.16	<0.2	10	0.32	<0.01	7.40	0.11	7.77	52.0	125	0.26	106.5
558207		4.88	<0.001	0.05	7.55	0.3	10	0.30	<0.01	7.04	0.14	7.95	54.7	125	0.41	160.5
558208		4.93	<0.001	0.04	7.73	0.5	20	0.37	<0.01	7.42	0.13	7.47	53.1	121	0.48	132.5
558209		0.06	0.674	0.21	7.26	20.1	320	1.31	0.13	4.20	0.19	51.1	43.5	181	1.90	57.0
558210		4.64	<0.001	0.04	6.82	2.2	20	0.39	<0.01	7.24	0.12	10.70	45.7	135	0.68	149.0
558211		4.72	0.001	0.04	6.94	0.6	20	0.46	<0.01	7.54	0.13	9.61	48.3	129	1.09	146.5
558212		4.91	<0.001	0.03	7.19	2.0	30	0.51	0.01	6.94	0.07	8.66	33.8	182	1.15	42.5
558213		4.83	<0.001	0.06	6.64	1.1	40	0.41	0.01	5.26	0.16	10.10	42.7	174	2.49	169.5
558214		4.70	<0.001	0.04	6.63	4.3	40	0.45	0.01	4.84	0.14	10.35	42.7	145	2.69	164.0
558215		4.52	<0.001	<0.01	6.68	3.0	40	0.52	0.01	3.70	0.09	13.65	47.5	97	3.28	94.0
558216		0.26	<0.001	0.01	0.27	1.2	140	0.06	0.03	17.10	0.10	2.02	2.3	3	0.36	3.2
558217		4.53	<0.001	0.05	5.89	1.6	90	0.43	0.01	4.22	0.08	12.45	41.6	42	8.09	113.5
558218		4.65	<0.001	0.03	7.84	4.2	650	1.39	0.01	1.82	0.06	58.5	23.7	83	5.58	68.2
558219		4.21	<0.001	<0.01	8.47	1.5	950	1.51	0.01	0.36	<0.02	82.4	12.6	65	6.32	13.3
558220		4.67	<0.001	<0.01	8.87	5.9	800	1.54	<0.01	0.51	<0.02	85.5	14.6	68	5.76	1.6



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223988**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558201		7.85	17.70	0.05	0.8	0.008	0.071	0.06	2.6	19.0	5.05	1230	0.34	1.69	2.4	178.0
558202		7.31	16.90	0.05	0.7	0.007	0.060	0.06	2.2	14.1	4.63	1210	0.49	2.11	2.0	113.5
558203		10.55	18.60	0.06	1.3	0.005	0.106	0.67	5.4	19.5	3.52	1460	0.44	0.89	4.9	53.4
558204		10.15	17.55	0.05	1.2	0.007	0.097	0.09	4.7	16.8	3.37	1580	0.44	0.84	4.4	58.3
558205		9.00	15.35	<0.05	0.7	0.013	0.073	0.04	3.0	14.6	4.06	1500	0.26	1.46	2.8	125.0
558206		9.20	15.75	0.05	0.8	0.009	0.069	0.05	2.8	19.0	4.51	1580	0.21	1.48	2.7	146.0
558207		9.37	16.45	<0.05	0.6	0.009	0.071	0.08	2.9	21.9	4.68	1560	0.24	1.38	2.6	151.0
558208		8.85	15.80	<0.05	0.5	0.010	0.061	0.11	2.7	21.4	4.61	1500	0.19	1.57	2.5	153.0
558209		7.10	18.40	0.09	3.4	0.018	0.063	0.86	23.7	13.8	2.83	906	1.80	1.69	19.9	141.5
558210		8.68	15.45	0.05	0.8	0.008	0.079	0.13	3.8	21.9	3.79	1480	0.24	1.11	3.5	89.6
558211		9.50	16.90	0.06	0.7	0.013	0.080	0.18	3.4	19.4	3.81	1620	0.33	1.04	3.3	80.6
558212		7.93	16.55	0.06	1.0	<0.005	0.069	0.23	3.2	15.8	4.16	1360	0.52	2.09	3.1	78.1
558213		8.94	16.55	0.07	0.9	0.007	0.078	0.35	3.7	22.3	4.28	1360	0.45	2.05	3.6	68.5
558214		9.03	17.15	0.08	0.8	0.006	0.076	0.38	3.9	21.5	4.32	1320	0.35	2.17	3.6	68.7
558215		10.35	19.55	0.09	1.1	0.010	0.086	0.47	5.2	40.3	5.49	1460	0.34	1.44	4.5	63.2
558216		0.40	0.87	0.11	0.1	<0.005	0.005	0.04	1.1	20.3	12.40	345	0.07	0.08	0.3	2.0
558217		10.30	17.85	0.08	0.9	0.005	0.096	1.14	4.8	48.8	4.39	1420	0.33	0.16	4.5	42.9
558218		5.58	21.8	0.13	2.4	<0.005	0.050	2.70	31.1	41.8	2.20	729	0.27	1.54	8.8	40.6
558219		4.14	22.2	0.15	2.9	0.006	0.020	4.26	45.2	47.9	1.61	377	0.29	0.37	10.9	32.3
558220		4.03	23.0	0.14	3.1	<0.005	0.016	4.45	47.2	53.5	1.59	382	0.35	0.50	11.0	35.2



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223988**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558201		300	2.3	1.7	0.002	0.03	0.29	39.2	1	0.6	156.5	0.16	<0.05	0.24	0.562	0.02
558202		260	2.3	1.3	<0.002	0.01	0.32	45.0	<1	0.5	163.5	0.13	<0.05	0.18	0.500	<0.02
558203		640	1.8	34.5	0.002	0.12	0.21	48.3	1	0.8	98.7	0.32	<0.05	0.45	0.961	0.19
558204		570	2.2	3.4	0.003	0.05	0.23	47.7	1	0.9	111.0	0.29	0.05	0.40	0.898	0.02
558205		370	2.1	1.0	0.002	0.09	0.27	42.7	1	0.6	98.4	0.18	0.05	0.21	0.621	<0.02
558206		370	2.3	1.2	<0.002	0.10	0.28	43.0	1	0.5	96.2	0.18	<0.05	0.20	0.637	<0.02
558207		360	2.0	2.4	0.002	0.10	0.31	44.3	1	0.6	112.0	0.17	<0.05	0.20	0.635	0.02
558208		320	1.7	3.5	0.002	0.09	0.29	41.9	1	0.5	115.5	0.16	<0.05	0.19	0.577	0.02
558209		1110	15.2	42.2	<0.002	0.02	0.95	19.8	1	1.6	344	1.10	0.05	4.99	0.900	0.18
558210		460	1.7	4.7	0.002	0.10	0.38	44.2	1	0.6	104.5	0.24	<0.05	0.30	0.612	0.03
558211		420	2.4	6.7	0.002	0.10	0.57	48.9	1	0.6	141.0	0.22	<0.05	0.25	0.740	0.05
558212		390	4.1	8.1	<0.002	0.03	0.75	42.9	1	0.7	167.5	0.20	0.05	0.25	0.696	0.06
558213		460	2.2	15.8	0.003	0.05	0.52	46.2	1	0.8	118.5	0.23	0.05	0.30	0.769	0.12
558214		470	1.9	17.3	0.003	0.08	0.60	45.4	1	0.7	113.0	0.23	<0.05	0.31	0.769	0.14
558215		530	1.5	23.0	0.002	0.01	0.68	48.4	1	0.9	47.8	0.29	<0.05	0.41	0.888	0.20
558216		30	2.7	1.6	<0.002	0.01	0.18	1.6	1	<0.2	157.0	<0.05	<0.05	0.13	0.030	0.05
558217		580	1.1	51.4	<0.002	0.09	0.36	41.2	1	0.9	43.2	0.29	0.05	0.43	0.957	0.42
558218		400	2.9	59.0	<0.002	0.06	0.41	21.2	1	0.9	43.3	0.63	<0.05	9.04	0.495	0.49
558219		390	3.4	105.0	<0.002	0.02	0.51	12.1	1	0.7	16.4	0.75	<0.05	14.00	0.364	0.62
558220		370	3.0	115.5	<0.002	<0.01	0.68	12.7	1	1.3	20.2	0.76	<0.05	14.65	0.376	0.71



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223988**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U	V	W	Y	Zn	Zr	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	0.01	0.01
558201		0.1	294	0.1	19.1	72	26.2	73.6	98.3
558202		0.1	276	0.1	16.4	63	18.1		98.4
558203		0.1	423	0.1	33.7	102	50.8		
558204		0.1	423	0.1	30.6	102	37.7		
558205		0.1	322	0.1	22.4	100	18.3		
558206		0.1	333	0.1	21.7	106	25.9		
558207		0.1	333	<0.1	21.7	104	20.3		
558208		0.1	304	0.1	20.7	94	12.8		
558209		1.1	143	1.8	20.8	126	144.0		
558210		0.1	309	0.1	28.2	96	16.5		
558211		0.1	373	0.1	26.7	97	20.5		
558212		0.1	348	0.1	22.4	63	34.8		
558213		0.1	375	0.1	24.9	77	29.7		
558214		0.1	379	0.1	25.1	83	21.6		
558215		0.1	429	0.2	29.9	102	34.0		
558216		0.2	15	0.3	2.0	28	1.6		
558217		0.1	459	0.2	28.4	100	31.5		
558218		1.7	163	0.5	19.6	49	89.3		
558219		2.4	70	0.7	14.0	21	107.0		
558220		2.3	71	0.8	12.0	20	114.0		



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **24-SEPT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223988**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Applique à la Méthode: Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.  
 CRU-31 CRU-QC LOG-21 LOG-23  
 PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
 Au-ICP21 Hg-MS42 ME-MS61



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**BUREAU 200**  
**QUEBEC QC G1K 7R1**

Page: 1  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

**CERTIFICAT VO18223996**

Projet: Kan  
 Bon de commande #: KANDH18-110  
 Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-SEPT-2018.  
 Les résultats sont transmis à:

GLENN ASCH SIMON HEBERT LIZ STOCK	KAREN CHIU SIMON HOULE CORPORATIF WEBTRIEVE	PAUL DOBAK LEE SCHOLL
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PRÉPARATION ÉCHANTILLONS	
CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

PROCÉDURES ANALYTIQUES		
CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223996**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558181		4.76	<0.001	0.04	7.38	1.0	40	0.22	0.04	5.86	0.11	4.73	84.2	247	0.25	76.2
558182		4.69	<0.001	0.03	7.26	0.4	20	0.16	0.03	5.60	0.09	4.37	82.1	248	0.28	73.7
558183		4.71	<0.001	0.06	7.27	0.2	30	0.20	0.03	5.61	0.12	5.03	84.4	254	0.25	115.5
558184		4.75	<0.001	0.05	7.23	0.5	50	0.17	0.04	5.55	0.11	6.03	81.4	245	0.36	96.8
558185		4.90	<0.001	0.03	7.98	0.4	30	0.23	0.04	5.83	0.07	4.48	80.3	265	0.32	65.2
558186		4.55	<0.001	0.04	7.54	0.8	30	0.19	0.04	5.94	0.10	4.33	83.1	270	0.31	64.9
558187		4.77	<0.001	0.03	7.35	<0.2	40	0.22	0.04	6.01	0.11	4.81	80.1	261	0.26	72.9
558188		4.90	<0.001	0.05	7.11	0.5	20	0.15	0.04	5.57	0.14	4.67	78.6	233	0.22	122.0
558189		0.06	7.64	1.30	6.23	33.2	310	0.92	0.52	2.90	0.07	30.6	41.2	325	0.63	114.0
558190		4.55	0.001	0.04	7.15	0.9	40	0.20	0.04	5.61	0.10	4.71	83.7	243	0.28	86.3
558191		4.39	<0.001	0.04	8.08	<0.2	40	0.24	0.05	6.09	0.09	4.98	78.5	277	0.30	76.4
558192		4.57	<0.001	0.03	7.51	<0.2	40	0.19	0.04	5.71	0.08	4.70	81.6	284	0.25	72.7
558193		4.59	<0.001	0.05	7.47	<0.2	20	0.21	0.04	6.11	0.13	4.93	80.9	233	0.31	108.5
558194		4.70	<0.001	0.03	7.85	0.9	80	0.21	0.04	5.94	0.10	5.08	76.4	287	0.48	81.0
558195		4.62	<0.001	0.06	7.27	<0.2	30	0.19	0.04	5.89	0.12	5.24	79.0	284	0.37	112.5
558196		0.21	<0.001	<0.01	0.17	0.5	20	<0.05	0.02	31.5	<0.02	1.02	1.6	8	0.05	2.9
558197		4.88	0.001	0.08	7.63	1.8	30	0.17	0.03	6.36	0.10	5.64	72.6	294	0.30	114.0
558198		4.85	<0.001	0.05	7.85	1.9	20	0.25	0.03	6.32	0.11	6.14	70.1	299	0.28	129.0
558199		4.77	<0.001	0.04	7.76	0.4	20	0.36	0.03	6.76	0.09	7.02	58.6	274	0.38	102.5
558200		4.77	0.001	0.02	7.14	0.3	120	0.43	0.02	6.23	0.05	17.85	42.7	57	6.63	65.4





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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18223996**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558181		9.10	12.00	0.05	0.6	0.006	0.045	0.17	1.8	33.9	9.61	1460	0.16	0.75	1.5	559
558182		8.76	12.10	<0.05	0.6	0.015	0.043	0.11	1.6	34.0	9.12	1390	0.16	0.75	1.5	525
558183		9.04	12.30	0.05	0.6	0.007	0.044	0.12	1.8	34.8	9.42	1420	0.17	0.71	1.6	547
558184		8.57	12.35	0.06	0.6	0.009	0.050	0.19	2.2	33.9	9.10	1380	0.13	0.77	1.9	531
558185		8.86	12.40	0.06	0.6	0.008	0.041	0.14	1.7	34.0	9.24	1400	0.10	1.02	1.5	517
558186		9.02	12.85	<0.05	0.5	0.011	0.044	0.14	1.6	34.7	9.41	1440	0.14	0.83	1.5	554
558187		8.62	13.40	0.07	0.5	0.009	0.044	0.16	1.8	32.5	8.70	1360	0.12	0.73	1.6	517
558188		8.27	11.75	0.06	0.5	0.011	0.042	0.09	1.7	31.2	8.53	1300	0.14	0.98	1.5	501
558189		5.53	14.70	0.07	2.3	0.184	0.048	1.06	15.6	15.0	4.02	737	6.07	1.20	16.0	246
558190		8.87	11.85	0.06	0.5	0.009	0.037	0.19	1.8	34.4	9.25	1370	0.17	0.69	1.6	534
558191		8.67	13.30	0.07	0.4	0.008	0.040	0.17	1.9	33.3	8.84	1340	0.19	0.90	1.6	494
558192		8.73	12.10	0.05	0.5	0.008	0.039	0.16	1.8	34.6	9.04	1360	0.17	0.87	1.6	513
558193		8.62	12.35	0.05	0.4	0.010	0.039	0.11	1.8	33.2	9.02	1370	0.16	0.95	1.6	515
558194		8.25	12.65	0.05	0.5	0.010	0.038	0.32	1.9	32.3	8.51	1290	0.13	0.94	1.6	492
558195		8.45	12.25	0.06	0.5	0.011	0.046	0.16	2.0	32.1	8.68	1330	0.19	0.86	1.6	499
558196		0.31	0.41	<0.05	<0.1	<0.005	0.005	0.02	1.2	1.9	3.01	187	<0.05	0.05	0.1	8.2
558197		8.30	13.25	<0.05	0.5	0.010	0.043	0.13	2.1	29.4	8.14	1280	0.14	1.02	1.9	459
558198		8.27	13.85	0.05	0.7	0.014	0.047	0.11	2.3	27.5	7.48	1250	0.20	1.27	2.0	405
558199		8.02	14.60	<0.05	0.9	0.006	0.054	0.12	2.5	21.8	6.45	1280	0.17	1.72	2.4	289
558200		10.00	20.4	0.07	2.0	<0.005	0.117	1.05	5.8	19.5	3.48	1420	0.26	1.07	6.0	67.4



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18223996**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558181		190	2.3	4.2	<0.002	0.04	0.25	23.5	1	0.4	86.8	0.10	<0.05	0.15	0.362	0.02
558182		170	2.2	3.1	<0.002	0.04	0.21	21.3	1	0.4	88.5	0.10	<0.05	0.14	0.359	0.02
558183		200	2.2	3.3	0.002	0.06	0.22	23.9	1	0.4	83.0	0.10	<0.05	0.14	0.346	0.02
558184		270	2.1	5.6	<0.002	0.05	0.22	21.3	1	0.4	83.8	0.12	<0.05	0.19	0.307	0.03
558185		190	2.5	3.7	<0.002	0.05	0.22	20.9	<1	0.4	95.0	0.10	<0.05	0.13	0.339	<0.02
558186		180	2.3	3.7	<0.002	0.04	0.21	21.7	1	0.4	92.3	0.10	<0.05	0.12	0.351	0.02
558187		180	2.8	4.1	<0.002	0.05	0.22	24.2	<1	0.4	105.5	0.10	<0.05	0.13	0.351	0.02
558188		180	2.4	2.4	<0.002	0.05	0.21	22.6	<1	0.4	89.2	0.10	<0.05	0.14	0.341	<0.02
558189		1110	9.6	36.8	<0.002	0.08	0.76	19.8	1	1.0	282	0.90	0.25	2.29	0.693	0.18
558190		210	2.0	5.4	<0.002	0.05	0.20	25.0	1	0.4	76.7	0.10	<0.05	0.15	0.341	0.03
558191		210	2.6	4.6	0.002	0.05	0.23	24.8	<1	0.4	103.0	0.10	<0.05	0.15	0.353	0.02
558192		170	2.5	4.4	<0.002	0.04	0.22	24.5	<1	0.4	83.0	0.10	<0.05	0.14	0.353	0.03
558193		220	2.4	3.0	<0.002	0.05	0.23	22.3	1	0.4	93.4	0.11	<0.05	0.15	0.352	0.02
558194		230	2.2	8.6	<0.002	0.05	0.21	22.1	1	0.4	89.9	0.10	<0.05	0.16	0.356	0.04
558195		210	2.0	4.5	<0.002	0.05	0.24	24.4	<1	0.4	83.8	0.11	<0.05	0.16	0.376	0.02
558196		60	0.5	0.4	<0.002	<0.01	0.08	0.5	1	<0.2	81.1	<0.05	<0.05	0.06	0.010	<0.02
558197		220	2.0	3.3	<0.002	0.03	0.26	21.0	1	0.4	102.0	0.12	0.05	0.17	0.403	0.02
558198		260	1.9	2.7	0.002	0.02	0.24	27.5	1	0.4	105.0	0.13	<0.05	0.18	0.440	0.02
558199		310	2.0	3.1	<0.002	0.06	0.23	32.4	<1	0.4	107.0	0.15	<0.05	0.22	0.525	0.02
558200		780	2.2	52.5	0.002	0.15	0.18	45.4	1	0.9	106.5	0.39	<0.05	0.56	1.105	0.34



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18223996**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U	V	W	Y	Zn	Zr	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	0.01	0.01
558181		<0.1	171	<0.1	10.7	105	16.7	89.0	95.0
558182		<0.1	165	<0.1	10.5	100	18.3		97.1
558183		<0.1	163	<0.1	11.0	101	19.3		
558184		<0.1	141	<0.1	13.2	97	21.2		
558185		<0.1	156	0.1	10.3	95	15.9		
558186		<0.1	167	<0.1	10.3	100	15.6		
558187		<0.1	167	<0.1	11.1	94	15.9		
558188		<0.1	156	<0.1	10.6	89	13.8		
558189		0.6	146	8.5	14.9	81	97.9		
558190		<0.1	165	0.1	11.0	98	13.7		
558191		<0.1	168	<0.1	11.5	94	12.6		
558192		<0.1	162	<0.1	10.9	96	15.3		
558193		<0.1	164	0.1	11.0	94	12.8		
558194		<0.1	170	0.1	11.5	87	14.0		
558195		0.1	176	0.1	11.8	90	14.4		
558196		0.1	3	<0.1	2.3	5	1.3		
558197		<0.1	188	0.1	13.0	79	15.4		
558198		<0.1	206	<0.1	14.2	74	23.3		
558199		0.1	253	0.1	17.4	67	30.5		
558200		0.2	498	0.1	40.3	78	72.4		



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **24-SEPT-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18223996**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 24-SEPT-2018  
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## CERTIFICAT VO18224002

Projet: Kan

Bon de commande #: KANDH18-108

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 7-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18224002**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558141		4.79	<0.001	0.02	6.78	<0.2	90	0.34	0.01	5.72	0.06	14.00	42.5	62	2.45	136.0
558142		4.90	0.001	0.03	7.23	1.9	50	0.30	0.01	6.75	0.08	12.90	38.6	146	1.30	144.5
558143		4.91	0.001	0.01	7.54	4.0	10	0.37	0.01	6.58	0.04	4.59	43.4	416	0.17	31.4
558144		4.65	0.001	0.01	7.62	2.5	10	0.32	0.01	6.58	0.04	5.25	45.2	327	0.18	28.5
558145		4.66	<0.001	0.01	7.16	0.7	10	0.27	<0.01	6.50	0.05	6.11	40.4	364	0.19	36.2
558146		4.52	<0.001	0.02	7.20	4.2	30	0.22	<0.01	5.65	0.06	5.02	55.3	255	0.20	43.8
558147		4.84	<0.001	0.02	7.48	9.1	100	0.22	0.01	6.29	0.07	4.65	57.1	279	0.37	69.5
558148		4.86	<0.001	0.04	7.20	10.1	20	0.19	0.01	6.15	0.08	4.73	62.5	277	0.19	102.5
558149		0.07	0.695	0.20	6.98	18.9	310	1.13	0.12	4.09	0.17	47.7	40.4	185	1.87	53.5
558150		4.89	0.001	0.05	7.22	9.0	40	0.18	0.01	6.05	0.11	4.75	64.7	281	0.26	149.0
558151		4.90	<0.001	0.04	6.99	7.4	40	0.17	0.01	6.22	0.07	3.79	63.9	297	0.23	87.1
558152		4.65	0.001	0.07	7.28	6.9	50	0.23	0.01	5.95	0.11	4.24	64.3	263	0.23	152.5
558153		4.71	<0.001	0.04	7.48	1.1	30	0.22	0.01	5.69	0.08	4.69	71.4	267	0.22	102.5
558154		4.83	<0.001	0.03	7.39	<0.2	50	0.23	0.01	6.15	0.06	5.01	67.4	242	0.24	54.9
558155		4.88	<0.001	0.04	7.18	1.0	30	0.21	0.01	5.83	0.13	5.13	74.3	242	0.25	108.5
558156		0.25	<0.001	<0.01	0.14	<0.2	10	0.05	<0.01	32.2	<0.02	0.92	1.3	5	<0.05	1.7
558157		5.01	<0.001	0.04	7.23	0.5	60	0.17	0.01	6.10	0.08	4.51	68.1	248	0.27	72.5
558158		5.13	<0.001	0.04	7.09	1.3	20	0.21	0.01	6.13	0.10	4.80	72.8	284	0.19	115.5
558159		4.90	<0.001	0.04	6.69	<0.2	30	0.20	0.01	6.12	0.09	4.86	69.9	217	0.18	112.0
558160		4.89	<0.001	0.02	7.26	0.7	40	0.19	0.02	6.20	0.06	4.50	72.7	283	0.24	55.3



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18224002**

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558141		10.05	18.25	0.06	1.4	0.008	0.097	0.46	5.0	12.2	3.55	1420	0.41	1.67	4.8	60.1
558142		8.55	18.30	0.06	2.0	0.012	0.087	0.27	4.5	10.4	3.81	1320	0.29	1.95	4.6	81.5
558143		6.71	14.20	0.06	0.6	0.013	0.052	0.05	1.6	13.8	4.87	1190	0.21	1.92	1.7	173.5
558144		7.31	15.30	0.05	0.8	0.009	0.053	0.05	1.9	13.5	4.93	1260	0.16	2.11	2.0	195.5
558145		6.89	13.90	<0.05	0.7	0.008	0.053	0.06	2.1	15.9	4.52	1180	0.14	2.13	2.2	153.5
558146		7.71	13.45	0.05	0.6	0.011	0.054	0.09	1.8	23.4	6.10	1240	0.06	1.73	1.9	298
558147		7.79	13.85	0.05	0.6	0.011	0.048	0.30	1.6	19.4	6.41	1200	0.07	1.32	1.7	327
558148		8.16	13.15	0.05	0.6	0.020	0.049	0.07	1.7	20.8	6.69	1240	0.09	1.26	1.6	362
558149		6.87	18.15	0.08	3.6	0.021	0.068	0.83	21.8	12.0	2.72	879	2.13	1.60	18.7	136.0
558150		7.86	13.25	0.06	0.6	0.033	0.044	0.14	1.7	20.6	6.70	1220	0.10	1.11	1.6	349
558151		7.85	12.80	0.06	0.5	0.019	0.044	0.15	1.3	20.6	6.86	1260	0.13	1.08	1.4	375
558152		7.67	12.65	0.06	0.5	0.026	0.038	0.17	1.5	25.1	6.55	1220	0.73	1.24	1.6	360
558153		8.50	13.15	0.06	0.5	0.012	0.040	0.12	1.8	29.8	7.21	1330	0.20	1.12	1.7	388
558154		8.03	13.80	0.06	0.5	0.008	0.046	0.17	1.7	25.7	6.94	1290	0.26	1.12	1.9	390
558155		8.43	12.75	0.06	0.5	0.017	0.045	0.11	1.9	28.3	7.82	1360	0.23	1.02	1.8	417
558156		0.23	0.32	0.08	<0.1	0.006	<0.005	0.01	1.1	1.6	1.43	104	0.08	0.04	0.1	5.7
558157		8.13	12.45	0.05	0.6	0.019	0.039	0.23	1.6	27.7	7.53	1310	0.14	0.99	1.7	430
558158		8.56	12.35	<0.05	0.5	0.018	0.043	0.07	1.8	27.3	7.73	1400	0.12	0.80	1.6	437
558159		8.19	12.55	<0.05	0.5	0.026	0.045	0.12	1.7	23.3	7.21	1330	0.17	0.91	1.7	404
558160		8.53	12.55	<0.05	0.5	0.011	0.043	0.16	1.5	27.0	8.15	1390	0.13	0.89	1.7	471



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 24-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18224002**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558141		610	1.8	22.2	0.002	0.29	0.19	46.4	1	1.0	99.0	0.31	<0.05	0.39	1.020	0.15
558142		520	1.9	11.7	0.002	0.13	0.23	43.0	1	1.9	123.5	0.30	<0.05	0.41	0.890	0.08
558143		210	2.2	0.9	<0.002	0.01	0.29	33.3	<1	0.4	162.5	0.12	<0.05	0.13	0.413	<0.02
558144		240	1.9	0.7	0.002	<0.01	0.25	28.1	<1	0.6	151.0	0.14	<0.05	0.15	0.463	<0.02
558145		290	1.2	1.3	<0.002	0.01	0.11	33.9	<1	0.5	91.7	0.16	<0.05	0.18	0.511	0.02
558146		220	1.1	1.9	<0.002	0.01	0.16	23.9	1	0.4	76.7	0.13	<0.05	0.14	0.408	0.02
558147		200	1.6	6.6	<0.002	0.01	0.26	22.4	1	0.4	113.0	0.12	<0.05	0.12	0.410	0.04
558148		190	1.6	1.6	0.002	0.01	0.27	23.7	<1	0.4	111.5	0.11	<0.05	0.11	0.390	<0.02
558149		1090	13.4	38.1	<0.002	0.02	0.94	18.7	<1	1.6	332	1.11	<0.05	4.72	0.864	0.18
558150		190	1.9	3.4	<0.002	0.02	0.30	23.6	<1	0.4	116.0	0.11	<0.05	0.13	0.366	0.03
558151		180	2.0	3.4	<0.002	0.01	0.30	21.7	<1	0.3	121.0	0.09	<0.05	0.10	0.333	0.02
558152		190	4.7	4.1	<0.002	0.02	0.53	19.9	<1	0.4	114.0	0.11	<0.05	0.11	0.358	0.03
558153		190	2.4	3.2	<0.002	0.05	0.27	21.9	<1	0.4	107.5	0.11	<0.05	0.11	0.359	0.02
558154		220	3.1	4.3	<0.002	0.05	0.33	20.6	<1	0.4	126.5	0.12	<0.05	0.12	0.400	0.03
558155		240	2.3	3.0	<0.002	0.05	0.24	22.3	<1	0.4	104.5	0.13	<0.05	0.14	0.382	<0.02
558156		40	0.5	0.2	<0.002	<0.01	0.05	0.4	<1	<0.2	78.9	<0.05	<0.05	0.05	0.008	<0.02
558157		220	2.5	5.6	0.002	0.05	0.22	18.4	<1	0.4	111.5	0.12	<0.05	0.11	0.364	0.03
558158		190	2.6	1.9	0.003	0.06	0.25	21.6	<1	0.4	110.5	0.11	<0.05	0.12	0.357	<0.02
558159		220	2.4	3.0	<0.002	0.09	0.22	19.5	<1	0.4	114.5	0.11	<0.05	0.11	0.380	<0.02
558160		210	2.3	4.0	<0.002	0.04	0.24	17.7	<1	0.4	107.0	0.11	<0.05	0.11	0.361	0.02





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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18224002**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Pass2mm % 0.01	Pass75um % 0.01
558141		0.2	475	0.3	30.0	86	46.9	73.4	91.8
558142		0.2	430	0.3	28.3	75	54.7		
558143		<0.1	229	0.1	12.7	60	20.8		97.7
558144		0.1	247	0.1	13.0	62	22.9		97.7
558145		0.1	268	0.1	15.4	61	22.6		
558146		<0.1	211	0.1	11.5	67	18.3		
558147		<0.1	212	0.1	10.9	64	19.2		
558148		<0.1	208	0.1	10.9	70	18.4		
558149		1.1	140	2.0	19.2	121	139.0		
558150		<0.1	192	0.1	10.9	71	19.1		
558151		<0.1	184	0.1	8.9	74	16.3		
558152		<0.1	182	0.1	9.4	79	12.4		
558153		0.1	181	0.1	10.3	84	12.7		
558154		<0.1	195	0.1	11.3	79	14.5		
558155		0.1	187	0.1	11.8	86	15.0		
558156		0.1	3	<0.1	2.0	4	1.4		
558157		<0.1	182	0.1	9.9	82	14.5		
558158		<0.1	182	0.1	10.5	90	15.1		
558159		<0.1	194	0.1	10.8	82	12.7		
558160		<0.1	182	0.1	10.1	87	15.0		



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **24-SEPT-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18224002**

	<b>COMMENTAIRE DE CERTIFICAT</b>								
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Sudbury, 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 17%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A)  
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Compte: MINVIR

## CERTIFICAT VO18230512

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-017

Ce rapport s'applique aux 7 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 17-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
FND-02a	Localiser échantillon au laboratoire subsidiaire

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Nombre total de pages: 2 (A)  
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Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18230512**

Description échantillon	Méthode élément unités LDI	Au-ICP21 Au ppm 0.001
403545		0.124
403546		<0.001
403547		0.058
403548		0.281
403549		0.042
403550		0.007
486377		0.671



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **26-SEPT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18230512**

### COMMENTAIRE DE CERTIFICAT

#### ADRESSE DE LABORATOIRE

Applique à la Méthode:

Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 FND-02a



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Page: 1  
Nombre total de pages: 2 (A - D)  
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## CERTIFICAT VO18233786

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-041

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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**CERTIFICAT D'ANALYSE VO18233786**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555561		3.22	<0.001	0.06	1.34	8.0	50	0.88	0.04	1.15	0.20	20.0	10.1	28	0.54	9.7
555562		2.22	<0.001	0.12	8.03	16.8	440	2.86	0.18	0.14	0.22	59.3	21.3	95	4.33	30.9
555563		2.47	<0.001	0.10	7.90	5.1	420	2.47	0.14	0.11	0.20	48.3	20.6	92	4.13	27.6
555564		2.28	<0.001	0.12	7.78	7.5	430	2.64	0.19	0.12	0.20	43.6	20.6	94	4.07	39.7
555565		2.30	<0.001	0.15	7.39	2.4	420	3.24	0.17	0.11	0.08	43.7	20.9	92	3.52	27.6
555566		0.24	<0.001	<0.01	0.11	0.3	20	0.07	0.01	32.4	0.02	1.21	0.6	2	<0.05	1.7
555567		2.53	<0.001	0.11	2.61	1.5	90	1.01	0.03	1.03	0.10	23.6	10.7	43	1.00	16.9
555568		2.62	<0.001	0.07	0.69	1.7	10	0.40	0.02	3.84	0.09	12.45	8.2	17	0.12	7.2
555569		2.44	<0.001	0.05	0.33	1.6	<10	0.14	0.01	4.51	0.10	6.13	2.1	10	<0.05	3.6
555570		1.19	<0.001	0.31	0.81	1.6	20	0.28	0.02	2.83	0.08	20.8	2.3	23	0.31	41.0
555571		1.38	<0.001	0.09	0.10	12.5	<10	0.18	0.01	2.24	0.02	6.62	1.6	13	<0.05	4.7
555572		2.38	<0.001	0.09	0.13	10.7	<10	0.25	0.01	2.59	0.02	9.26	1.8	22	<0.05	5.1
555573		2.36	<0.001	0.08	0.08	1.7	<10	0.18	0.01	2.67	0.02	4.57	1.7	18	<0.05	6.7
555574		2.39	<0.001	0.02	0.20	4.8	<10	0.27	0.01	5.19	0.02	6.49	3.4	17	<0.05	4.8
555575		2.57	<0.001	0.03	0.41	0.7	<10	0.33	0.01	5.69	0.02	12.05	7.2	19	<0.05	3.7
555576		1.59	<0.001	0.40	0.67	1.7	10	0.33	0.07	2.75	0.06	13.10	8.8	18	0.20	43.4
555577		2.69	<0.001	0.08	0.11	0.6	<10	0.24	0.01	3.15	0.02	9.83	3.7	17	<0.05	5.7
555578		1.96	<0.001	0.03	0.09	5.6	<10	0.23	0.01	2.35	0.03	4.72	1.7	17	0.06	1.9
555579		0.07	7.59	1.35	5.99	32.3	310	0.83	0.47	2.83	0.09	30.0	37.9	316	0.65	110.0
555580		2.22	<0.001	0.03	0.04	1.0	<10	0.14	0.01	1.86	<0.02	1.66	1.1	19	<0.05	1.5



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18233786**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555561		22.5	5.18	0.09	0.7	<0.005	0.022	0.45	10.6	12.4	2.67	24900	1.43	0.01	5.6	15.6
555562		7.98	21.0	0.16	2.1	0.010	0.050	4.20	29.5	37.9	1.22	5580	1.07	0.08	8.0	44.9
555563		7.14	20.8	0.18	2.0	0.017	0.048	4.21	22.2	30.4	1.04	5180	0.77	0.10	8.1	40.9
555564		8.18	21.0	0.17	2.0	0.014	0.049	4.13	19.7	30.6	1.19	6580	0.91	0.11	7.3	41.1
555565		9.19	19.80	0.16	1.9	0.010	0.052	3.49	20.4	46.6	1.42	3520	1.02	0.09	7.5	43.1
555566		0.16	0.34	0.09	0.1	<0.005	<0.005	0.03	1.2	1.3	1.26	114	<0.05	0.02	0.2	0.3
555567		15.60	8.02	0.09	0.8	0.009	0.023	0.79	12.7	30.0	2.33	8440	0.55	0.02	5.4	23.1
555568		18.80	2.69	0.06	0.4	<0.005	0.013	0.09	6.8	14.1	3.41	10450	0.66	<0.01	1.7	10.4
555569		11.95	1.37	<0.05	0.1	<0.005	0.006	0.02	3.5	8.5	3.14	4670	0.51	<0.01	0.4	3.4
555570		8.39	2.85	0.06	0.5	0.011	0.010	0.23	11.6	11.9	1.88	3260	5.57	0.01	2.1	31.9
555571		10.30	0.61	<0.05	0.1	<0.005	<0.005	0.02	3.8	1.9	2.38	1680	0.75	<0.01	0.9	6.3
555572		10.95	0.68	<0.05	0.1	<0.005	<0.005	0.01	5.1	3.3	2.53	1780	0.75	<0.01	1.1	8.1
555573		8.48	0.56	<0.05	0.1	0.006	<0.005	<0.01	2.8	2.4	2.12	1620	0.79	<0.01	0.4	6.7
555574		11.05	1.15	<0.05	0.1	<0.005	0.005	<0.01	3.7	7.3	3.31	4020	0.63	<0.01	0.9	5.5
555575		15.75	1.92	<0.05	0.3	<0.005	0.011	<0.01	6.9	12.7	3.70	9120	0.65	<0.01	1.6	9.7
555576		15.80	2.77	0.06	0.5	0.005	0.026	0.14	7.4	8.5	3.04	9410	0.91	0.02	1.9	35.1
555577		9.13	0.68	<0.05	0.1	0.005	0.006	0.02	5.7	2.5	2.48	1540	0.82	<0.01	0.8	6.0
555578		8.17	0.53	<0.05	0.1	<0.005	<0.005	0.03	2.8	1.8	2.22	1400	0.46	<0.01	0.5	4.6
555579		5.37	13.55	<0.05	2.3	0.136	0.043	1.02	15.1	14.4	3.93	726	5.98	1.16	15.6	246
555580		3.69	0.24	<0.05	<0.1	0.006	<0.005	0.01	0.9	1.1	1.04	873	0.44	<0.01	0.3	4.4





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 1-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233786**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555561		700	2.0	16.4	<0.002	0.42	0.27	3.5	1	0.3	41.6	0.30	<0.05	1.53	0.114	0.19
555562		200	3.8	154.5	0.004	0.85	0.76	14.1	2	1.3	21.9	0.61	0.06	10.05	0.281	2.00
555563		200	4.1	142.0	0.003	0.79	0.57	14.0	1	1.3	21.1	0.59	<0.05	9.41	0.287	2.27
555564		180	3.8	124.5	0.004	0.90	0.60	13.7	1	1.3	20.4	0.53	0.06	8.57	0.274	2.36
555565		260	5.0	112.5	0.004	1.05	0.58	13.1	1	1.4	19.1	0.51	0.07	8.03	0.263	2.14
555566		50	<0.5	1.0	<0.002	0.01	0.07	0.2	1	<0.2	81.5	<0.05	<0.05	0.12	0.006	0.02
555567		330	1.6	30.6	0.002	0.88	0.21	4.8	1	0.4	35.1	0.33	<0.05	2.73	0.128	0.56
555568		630	1.1	3.1	<0.002	0.56	0.08	1.7	1	<0.2	73.6	0.13	<0.05	0.79	0.045	0.07
555569		170	1.1	0.6	<0.002	0.29	0.08	0.7	<1	<0.2	106.0	<0.05	<0.05	0.19	0.005	0.02
555570		150	4.3	6.5	0.005	2.00	0.38	1.9	1	0.2	88.8	0.11	0.05	1.13	0.030	0.21
555571		200	1.3	0.6	<0.002	0.61	0.16	0.4	<1	<0.2	33.5	0.05	<0.05	0.18	0.007	0.03
555572		210	1.5	0.3	<0.002	0.68	0.13	0.3	1	<0.2	25.4	0.06	<0.05	0.26	0.011	0.02
555573		120	1.3	0.1	<0.002	0.96	0.09	0.2	1	<0.2	25.9	<0.05	<0.05	0.11	<0.005	<0.02
555574		170	1.2	0.1	<0.002	0.15	0.05	0.6	1	<0.2	48.2	<0.05	<0.05	0.25	0.010	<0.02
555575		630	1.2	0.1	<0.002	0.26	0.07	1.3	1	<0.2	49.6	0.09	<0.05	0.48	0.025	<0.02
555576		600	4.0	3.7	<0.002	2.25	0.44	1.6	1	<0.2	50.7	0.10	0.13	0.66	0.025	0.18
555577		190	1.5	0.5	<0.002	0.59	0.11	0.4	1	<0.2	31.9	<0.05	<0.05	0.16	0.007	0.02
555578		80	1.5	0.7	<0.002	0.31	0.07	0.2	<1	<0.2	16.8	<0.05	<0.05	0.11	<0.005	0.03
555579		1080	11.4	35.7	0.002	0.08	0.99	18.1	<1	0.9	273	0.85	0.23	2.26	0.680	0.20
555580		30	2.1	0.5	<0.002	0.42	0.22	0.1	1	<0.2	8.9	<0.05	<0.05	0.04	<0.005	0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 1-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233786**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555561		1.0	87	0.4	6.7	58	32.0
555562		3.3	146	2.1	6.9	159	76.1
555563		2.7	124	1.9	5.6	161	75.3
555564		3.4	149	1.9	5.7	147	74.3
555565		3.4	151	1.6	6.2	171	71.2
555566		0.2	2	<0.1	2.0	5	2.0
555567		1.3	79	0.4	5.1	120	32.9
555568		0.5	35	0.1	5.5	49	19.1
555569		0.4	19	0.1	4.4	28	3.8
555570		2.0	45	1.3	4.6	29	24.4
555571		0.8	7	0.1	3.5	15	3.7
555572		1.0	8	0.2	4.0	13	5.7
555573		0.9	7	0.1	2.9	10	3.2
555574		0.5	13	0.1	4.3	10	7.0
555575		0.6	31	0.2	6.2	22	13.2
555576		0.6	35	0.2	5.0	53	21.4
555577		1.0	11	0.1	4.0	13	4.3
555578		1.2	8	0.1	2.6	12	3.4
555579		0.5	141	8.6	14.4	85	92.6
555580		2.0	4	0.1	1.6	6	1.3



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **1-OCT-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18233786**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 1-OCT-2018  
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## CERTIFICAT VO18233804

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-042

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 1-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233804**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555581		2.20	0.002	0.13	0.07	4.4	10	0.24	0.09	2.33	0.03	4.31	1.8	17	0.10	4.5
555582		2.31	<0.001	0.06	0.05	3.1	10	0.20	0.05	1.59	<0.02	3.13	2.9	21	0.06	2.1
555583		2.45	<0.001	0.01	0.08	3.9	10	0.29	0.04	3.73	<0.02	4.99	2.5	18	0.10	1.3
555584		2.61	<0.001	0.01	0.48	7.1	30	0.74	0.06	6.12	0.03	9.88	6.0	20	0.49	5.2
555585		2.40	<0.001	0.02	0.52	5.7	30	2.29	0.06	2.27	0.02	11.40	6.4	23	0.62	4.6
555586		0.20	<0.001	<0.01	0.11	<0.2	20	0.08	0.04	33.6	<0.02	1.02	0.6	3	<0.05	1.2
555587		2.42	<0.001	0.06	0.48	3.6	30	1.91	0.05	1.85	0.02	14.20	7.5	16	0.57	4.4
555588		2.30	<0.001	0.02	0.33	1.9	20	1.03	0.05	1.64	<0.02	12.35	5.2	13	0.21	2.9
555589		2.46	<0.001	0.03	0.50	6.5	20	1.13	0.06	3.04	<0.02	12.80	6.9	14	0.18	5.9
555590		2.36	<0.001	0.02	0.63	2.2	20	0.98	0.05	2.65	<0.02	13.05	8.0	16	0.19	7.2
555591		2.52	<0.001	0.03	0.71	7.1	20	1.04	0.05	1.76	<0.02	15.90	7.4	20	0.20	8.2
555592		2.53	<0.001	0.04	0.26	7.2	10	0.36	0.04	2.60	<0.02	8.67	7.6	21	0.17	5.3
555593		2.14	<0.001	0.07	0.09	14.9	10	0.28	0.03	1.74	<0.02	4.68	2.9	24	0.10	2.6
555594		1.74	<0.001	0.03	0.05	6.4	<10	0.15	0.03	1.45	<0.02	2.85	1.9	21	0.06	1.7
555595		2.62	<0.001	0.02	0.04	3.0	<10	0.27	0.03	1.84	0.02	5.25	1.6	21	<0.05	1.5
555596		2.07	<0.001	0.03	0.05	3.2	<10	0.21	0.03	2.43	0.02	3.81	1.7	22	<0.05	1.3
555597		2.15	<0.001	0.02	0.23	3.1	10	0.48	0.02	4.09	<0.02	7.09	2.1	20	0.06	1.6
555598		2.11	<0.001	0.01	0.05	3.4	30	0.28	0.03	1.85	<0.02	4.11	1.8	12	<0.05	1.6
555599		0.07	0.668	0.19	7.28	19.1	330	1.44	0.15	4.31	0.20	52.2	42.3	183	1.96	53.7
555600		2.24	0.001	0.02	0.16	13.6	10	0.27	0.03	2.65	0.03	7.14	1.9	18	0.06	4.6



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 1-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18233804**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555581		8.59	0.39	<0.05	<0.1	<0.005	0.008	0.03	2.4	1.7	2.09	2200	0.42	<0.01	0.3	5.2
555582		6.82	0.27	<0.05	<0.1	<0.005	<0.005	0.02	1.8	1.2	1.52	1580	0.59	<0.01	0.3	7.1
555583		8.34	0.42	<0.05	0.1	<0.005	<0.005	0.04	3.0	1.8	2.38	2800	0.28	<0.01	0.8	4.9
555584		16.90	2.31	<0.05	0.3	<0.005	0.011	0.15	4.9	6.6	3.99	7960	0.69	<0.01	3.0	9.0
555585		18.45	2.62	<0.05	0.4	<0.005	0.012	0.16	5.3	6.3	2.69	11100	0.77	<0.01	3.4	9.3
555586		0.32	0.26	0.07	0.1	<0.005	<0.005	0.01	1.1	0.7	1.69	175	0.06	0.06	0.2	<0.2
555587		21.4	2.33	0.05	0.3	<0.005	0.013	0.14	6.9	6.0	2.78	13300	0.66	<0.01	3.2	7.6
555588		20.1	1.37	0.05	0.3	<0.005	0.009	0.04	5.8	3.7	2.66	11300	0.38	<0.01	2.9	5.0
555589		20.7	2.03	0.05	0.4	<0.005	0.014	0.03	5.9	4.9	3.25	12300	0.42	<0.01	4.1	7.4
555590		20.0	2.77	0.05	0.5	<0.005	0.017	0.03	6.1	6.2	3.02	13200	0.34	<0.01	4.5	9.6
555591		21.8	3.58	0.05	0.5	<0.005	0.015	0.03	7.4	6.2	3.03	14300	0.40	<0.01	5.1	10.3
555592		11.60	1.19	0.05	0.2	<0.005	0.007	0.02	4.5	2.8	2.12	5530	0.88	<0.01	1.9	12.5
555593		4.46	0.40	<0.05	0.1	<0.005	<0.005	0.03	2.6	1.8	1.07	897	0.61	<0.01	0.4	7.5
555594		6.14	0.31	<0.05	<0.1	<0.005	<0.005	0.02	1.5	1.1	1.35	1310	0.46	<0.01	0.5	5.4
555595		10.85	0.25	<0.05	<0.1	<0.005	<0.005	0.01	3.0	1.0	2.26	1840	0.42	<0.01	0.5	4.6
555596		8.09	0.29	<0.05	<0.1	<0.005	<0.005	0.01	2.2	1.5	2.05	1620	0.41	<0.01	0.4	4.6
555597		7.31	1.31	<0.05	0.1	<0.005	<0.005	0.02	4.3	4.4	2.52	2060	0.44	0.01	0.7	5.0
555598		11.45	0.26	<0.05	<0.1	<0.005	<0.005	0.01	2.4	1.8	2.48	2190	0.28	<0.01	0.3	4.0
555599		7.22	18.25	0.11	3.5	0.023	0.071	0.90	21.9	13.2	2.87	917	2.26	1.69	19.9	143.0
555600		13.30	0.97	0.05	0.1	<0.005	0.008	0.02	4.2	3.3	2.94	1940	0.66	<0.01	0.5	10.7



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 1-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233804**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555581		230	1.8	1.2	<0.002	0.42	0.21	0.2	<1	<0.2	13.7	<0.05	0.05	0.12	<0.005	0.04
555582		170	1.8	0.8	<0.002	0.33	0.14	0.1	<1	<0.2	9.6	<0.05	<0.05	0.07	<0.005	0.02
555583		190	0.7	1.5	<0.002	0.10	0.09	0.2	1	<0.2	16.1	<0.05	<0.05	0.12	0.009	0.03
555584		250	1.2	6.0	<0.002	0.12	0.11	1.3	1	0.2	33.6	0.16	<0.05	0.51	0.057	0.10
555585		300	1.3	6.4	<0.002	0.13	0.11	1.3	<1	0.2	22.5	0.19	<0.05	0.61	0.064	0.08
555586		70	<0.5	0.2	<0.002	0.01	0.07	0.4	1	<0.2	81.3	<0.05	<0.05	0.06	0.015	<0.02
555587		570	1.4	5.4	<0.002	0.12	0.13	1.3	1	0.2	19.4	0.15	0.05	0.53	0.053	0.06
555588		400	0.9	1.6	<0.002	0.06	0.09	0.8	<1	<0.2	16.3	0.14	<0.05	0.43	0.036	0.02
555589		410	1.3	1.2	<0.002	0.12	0.11	1.4	<1	0.2	23.9	0.23	<0.05	0.73	0.061	0.02
555590		420	1.4	1.4	<0.002	0.11	0.11	1.7	1	0.2	21.4	0.28	<0.05	0.83	0.075	0.03
555591		530	1.1	1.3	<0.002	0.15	0.10	2.1	1	0.3	19.9	0.31	0.05	0.79	0.105	0.03
555592		420	1.9	0.9	<0.002	0.34	0.12	0.8	1	<0.2	31.8	0.09	<0.05	0.30	0.032	0.02
555593		300	2.0	1.2	<0.002	0.56	0.17	0.2	1	<0.2	17.5	<0.05	<0.05	0.12	0.005	0.05
555594		140	1.1	0.7	<0.002	0.37	0.13	0.2	1	<0.2	14.3	<0.05	<0.05	0.07	0.006	0.03
555595		190	1.1	0.4	<0.002	0.23	0.12	0.1	<1	<0.2	20.2	<0.05	<0.05	0.07	0.005	0.02
555596		140	1.9	0.4	<0.002	0.23	0.10	0.2	1	<0.2	28.7	<0.05	<0.05	0.07	<0.005	0.02
555597		160	1.0	0.7	<0.002	0.24	0.11	0.3	1	<0.2	30.6	<0.05	<0.05	0.28	0.007	0.04
555598		230	0.6	0.5	<0.002	0.13	0.09	0.1	1	<0.2	11.7	<0.05	<0.05	0.07	<0.005	0.02
555599		1120	13.9	41.8	<0.002	0.02	1.00	20.0	<1	1.6	346	1.11	<0.05	5.02	0.904	0.19
555600		140	1.4	1.0	<0.002	0.55	0.11	0.3	1	<0.2	19.1	<0.05	<0.05	0.19	0.006	0.05



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 1-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233804**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555581		0.7	7	0.1	3.3	10	2.1
555582		0.5	4	0.1	2.6	5	1.9
555583		0.3	7	0.2	4.8	4	2.8
555584		0.4	34	0.6	5.5	8	13.5
555585		0.5	37	0.6	4.8	11	15.8
555586		0.1	3	<0.1	2.4	3	2.4
555587		0.5	40	0.7	6.7	9	14.8
555588		0.3	25	0.4	5.3	7	12.1
555589		0.4	38	0.6	5.9	9	17.1
555590		0.4	54	0.5	5.6	11	21.4
555591		0.5	58	0.5	6.4	13	24.8
555592		0.9	20	0.3	4.5	7	7.6
555593		1.9	5	0.4	2.8	4	3.2
555594		1.2	5	0.1	2.0	3	1.7
555595		0.8	6	0.2	3.3	5	2.3
555596		0.9	5	0.2	3.1	6	2.0
555597		1.0	10	0.2	3.4	5	4.2
555598		0.3	4	0.1	3.7	6	2.3
555599		1.2	145	2.0	20.6	130	144.5
555600		0.5	12	0.1	3.6	14	4.2





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **1-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233804**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 1-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18233805

Projet: Kan

Bon de commande #: KANDH18-RUSH-043

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 1-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233805**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555601		2.25	<0.001	0.02	0.10	1.2	<10	0.25	0.01	4.60	0.02	15.20	3.1	36	<0.05	4.9
555602		3.03	<0.001	0.09	0.30	10.2	20	0.46	0.02	1.97	0.02	11.25	3.9	27	0.18	32.2
555603		3.49	0.005	0.20	5.23	2.6	260	2.15	0.16	4.55	0.38	42.0	14.7	70	2.43	61.8
555604		2.37	0.004	0.17	0.20	0.4	10	0.37	0.02	7.76	0.04	9.58	7.0	7	0.10	31.9
555605		2.23	<0.001	0.01	0.12	0.4	<10	0.47	0.01	4.24	<0.02	7.96	1.8	8	<0.05	1.3
555606		0.18	<0.001	0.01	0.09	<0.2	20	0.07	0.01	33.3	<0.02	1.12	0.6	2	<0.05	1.0
555607		1.68	0.006	0.47	0.22	23.2	10	0.36	0.08	5.23	0.06	7.80	6.8	7	0.17	170.0
555608		1.83	0.001	0.15	0.27	0.5	<10	0.34	0.02	5.32	0.08	9.97	6.2	8	0.09	13.2
555609		2.12	0.003	0.03	0.32	2.9	10	0.60	0.02	3.36	0.10	11.05	5.2	9	0.10	5.6
555610		2.37	0.003	0.01	0.29	1.4	10	0.47	0.02	3.67	0.04	12.10	5.6	9	0.06	3.0
555611		1.47	<0.001	0.01	0.28	1.5	<10	0.40	0.02	2.69	0.03	10.05	6.3	8	<0.05	2.8
555612		1.66	<0.001	0.01	0.53	0.6	20	0.53	0.02	3.60	0.08	11.75	5.7	13	0.12	8.1
555613		1.76	<0.001	0.01	0.18	0.4	10	0.74	0.01	6.27	0.02	8.21	4.1	9	0.26	1.8
555614		1.58	0.001	0.02	0.40	14.0	10	0.65	0.03	4.71	0.06	13.20	9.9	10	0.23	5.8
555615		1.59	<0.001	0.02	0.42	3.4	<10	0.57	0.03	3.31	0.05	14.50	8.0	14	0.31	4.5
555616		2.09	0.001	0.01	0.38	1.4	<10	0.54	0.02	5.66	0.05	15.65	8.3	13	0.34	4.5
555617		1.82	0.001	0.01	0.37	12.9	10	0.75	0.03	3.17	0.02	14.45	8.1	10	0.89	4.6
555618		2.52	1.620	0.06	0.55	84.2	20	0.42	0.05	1.95	0.10	15.10	8.6	14	3.03	29.0
555619		0.07	2.59	0.46	6.91	11.8	330	1.22	0.18	4.85	0.08	44.6	53.2	329	0.67	88.0
555620		2.56	5.34	0.17	0.36	12.3	10	0.28	0.03	2.06	0.16	4.48	3.5	4	3.23	15.9



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 1-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18233805**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555601		11.10	0.74	0.06	0.3	0.009	0.005	0.01	8.4	3.2	3.32	2160	0.68	<0.01	2.8	10.6
555602		11.25	1.24	0.06	0.3	0.015	0.006	0.12	6.2	3.7	2.35	1600	2.95	0.01	2.4	13.3
555603		12.25	14.80	0.11	1.4	0.018	0.045	2.32	22.0	21.0	3.06	8280	1.04	0.19	2.5	37.4
555604		17.65	1.70	0.07	0.1	0.019	<0.005	0.02	5.5	3.7	4.50	4670	0.78	0.01	1.0	8.8
555605		15.50	1.47	0.05	0.1	<0.005	<0.005	0.01	4.8	2.8	3.43	4000	0.19	<0.01	0.6	1.8
555606		0.22	0.26	0.07	0.1	<0.005	0.008	0.02	1.2	1.1	1.49	129	<0.05	0.03	0.1	0.3
555607		24.0	2.26	0.07	0.1	0.005	0.005	0.02	4.5	4.5	3.03	3030	1.70	<0.01	0.7	42.0
555608		18.80	1.71	0.05	0.2	<0.005	0.008	0.01	5.5	4.7	3.58	6070	1.42	<0.01	2.1	7.5
555609		24.9	1.84	0.06	0.2	0.006	0.011	0.04	6.2	4.6	3.80	8780	0.51	0.01	1.7	7.5
555610		21.4	1.18	0.06	0.2	<0.005	0.008	0.03	6.5	3.3	3.47	11350	0.34	<0.01	2.6	5.8
555611		19.00	1.04	0.06	0.2	<0.005	0.008	0.01	5.4	3.1	2.85	13450	0.21	<0.01	2.3	5.1
555612		17.25	2.20	0.06	0.3	<0.005	0.011	0.06	6.4	5.0	2.88	12800	1.10	0.01	2.8	5.7
555613		13.65	0.82	0.05	0.2	<0.005	0.005	0.02	4.8	3.0	3.26	9960	0.24	<0.01	1.6	3.3
555614		20.9	1.79	0.06	0.2	<0.005	0.009	0.02	7.0	4.2	3.85	13500	0.39	<0.01	3.6	9.1
555615		17.95	2.08	0.06	0.3	<0.005	0.010	0.02	7.3	4.1	3.13	13600	0.34	<0.01	4.1	8.3
555616		18.30	2.10	0.06	0.2	<0.005	0.009	0.02	7.9	4.0	3.77	11650	0.48	<0.01	4.0	8.4
555617		21.7	1.87	0.07	0.2	<0.005	0.008	0.05	7.7	3.8	3.30	14400	0.51	<0.01	3.7	7.6
555618		22.6	2.05	0.07	0.2	0.019	0.014	0.15	7.3	4.3	2.89	10050	0.24	<0.01	4.4	5.9
555619		7.50	18.40	0.12	3.4	0.057	0.061	1.01	22.2	9.8	5.63	1070	3.05	1.99	30.3	359
555620		23.5	1.19	0.06	<0.1	0.019	0.012	0.08	2.7	1.7	3.71	6910	0.06	0.01	1.3	1.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 1-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233805**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555601		280	1.6	0.4	<0.002	0.59	0.07	0.9	<1	<0.2	37.0	0.12	<0.05	0.64	0.027	0.02
555602		220	2.1	3.7	0.002	1.37	0.13	1.0	1	0.3	18.8	0.14	<0.05	0.44	0.024	0.16
555603		260	11.5	84.1	0.002	1.93	0.40	10.7	1	1.0	69.8	0.13	0.10	5.66	0.093	1.61
555604		250	2.1	1.0	<0.002	1.59	0.21	0.7	1	<0.2	63.2	0.05	0.07	0.22	0.010	0.04
555605		210	0.7	0.4	<0.002	0.15	0.10	0.4	1	<0.2	23.8	<0.05	<0.05	0.13	<0.005	0.02
555606		70	<0.5	0.5	<0.002	0.01	<0.05	0.2	1	<0.2	82.6	<0.05	<0.05	0.08	0.005	<0.02
555607		80	3.5	1.4	<0.002	6.58	0.28	0.9	2	<0.2	57.2	<0.05	0.27	0.20	0.005	0.06
555608		230	2.1	0.6	<0.002	1.57	0.14	0.7	1	<0.2	67.1	0.08	0.06	0.39	0.008	0.02
555609		190	1.9	1.5	<0.002	0.41	0.17	0.9	1	<0.2	31.9	0.09	0.05	0.43	0.013	0.05
555610		330	1.3	1.2	<0.002	0.16	0.15	0.8	1	<0.2	28.1	0.12	<0.05	0.42	0.038	0.04
555611		260	0.9	0.5	<0.002	0.07	0.14	0.9	1	<0.2	17.4	0.12	<0.05	0.36	0.039	0.02
555612		320	1.1	2.6	<0.002	0.06	0.15	1.3	1	0.3	20.6	0.15	<0.05	0.61	0.054	0.07
555613		270	1.3	1.6	<0.002	0.02	0.12	0.6	1	<0.2	28.7	0.08	<0.05	0.27	0.024	0.07
555614		300	1.5	1.2	<0.002	0.08	0.19	1.2	1	<0.2	24.1	0.15	0.05	0.58	0.044	0.06
555615		350	1.3	1.5	<0.002	0.09	0.20	1.2	1	0.2	20.8	0.17	<0.05	0.71	0.051	0.07
555616		420	1.6	1.7	<0.002	0.09	0.17	1.2	1	0.2	39.8	0.15	<0.05	0.66	0.037	0.08
555617		440	1.1	3.8	<0.002	0.18	0.18	1.0	1	0.2	34.6	0.14	<0.05	0.61	0.039	0.18
555618		290	1.5	8.8	<0.002	1.88	0.17	1.2	1	0.2	56.5	0.17	0.25	0.93	0.037	0.32
555619		1890	4.8	32.1	<0.002	0.03	0.35	22.0	1	1.2	486	1.63	0.06	2.83	1.070	0.07
555620		120	1.3	4.8	<0.002	0.97	0.13	0.3	1	<0.2	73.1	0.08	0.06	0.08	0.006	0.09



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 1-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233805**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
555601	0.1	1.6	11	0.4	6.4	11	13.1
555602	0.1	1.9	21	0.5	3.9	11	12.8
555603	0.1	2.4	112	1.1	7.4	96	53.6
555604	0.1	0.4	30	0.4	5.5	10	5.5
555605	0.1	0.2	14	0.1	4.6	6	3.9
555606	0.1	0.1	1	<0.1	2.1	3	2.1
555607	0.1	0.4	20	0.1	4.6	18	5.8
555608	0.1	0.5	24	0.2	5.7	22	8.1
555609	0.1	0.8	30	0.2	5.9	35	10.2
555610	0.1	0.3	23	0.2	5.8	15	10.5
555611	0.1	0.2	21	0.2	5.1	13	10.3
555612	0.1	0.3	27	0.2	5.7	22	12.4
555613	0.1	0.1	15	0.1	5.5	7	7.1
555614	0.1	0.6	26	0.2	6.4	15	11.2
555615	0.1	0.3	29	0.2	5.9	11	13.5
555616	0.1	0.3	26	0.2	6.0	10	10.7
555617	0.1	0.3	24	0.1	5.4	9	11.0
555618	0.1	0.3	28	0.2	5.8	33	12.6
555619	0.1	0.6	150	3.2	21.6	110	145.5
555620	0.1	0.1	11	0.2	4.5	39	3.0



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **1-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233805**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 3-OCT-2018  
Compte: MINVIR

**CERTIFICAT VO18233807**

Projet: Kan  
Bon de commande #: KANDH18-RUSH-044  
Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 3-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233807**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
555621		2.07	0.599	0.03	0.22	1115	10	0.31	0.05	3.06	0.21	5.15	4.7	4	2.68	8.8
555622		2.46	0.005	<0.01	0.02	11.4	<10	0.48	0.03	0.96	0.04	3.53	3.9	2	0.41	2.1
555623		2.40	<0.001	<0.01	0.02	2.1	<10	0.51	0.03	1.02	0.02	3.45	5.1	2	0.44	2.0
555624		2.26	0.004	0.01	0.04	0.7	<10	0.33	0.02	1.21	0.07	6.18	5.4	4	0.74	1.5
555625		2.05	0.306	0.02	0.08	1.4	<10	0.44	0.02	1.25	0.09	12.50	5.3	4	1.03	2.1
555626		0.22	0.001	<0.01	0.12	0.2	20	0.06	0.03	32.7	<0.02	0.98	1.1	2	<0.05	6.5
555627		2.77	0.001	0.02	0.06	2.0	20	0.60	0.02	1.11	<0.02	6.12	4.5	4	1.06	1.3
555628		2.67	0.003	0.01	0.07	0.7	<10	0.46	0.03	1.83	0.02	8.77	4.1	3	1.84	0.9
555629		2.07	<0.001	0.01	0.04	1.0	10	0.42	0.02	1.45	0.03	5.42	4.1	3	1.12	1.0
555630		2.80	<0.001	0.01	0.03	0.3	<10	0.42	0.02	1.39	0.06	5.99	3.7	3	0.61	1.0
555631		2.50	<0.001	0.02	0.04	0.9	<10	0.36	0.02	1.46	0.07	7.12	3.0	3	0.78	0.7
555632		2.32	<0.001	0.01	0.03	1.6	<10	0.24	0.02	1.53	0.08	8.40	3.4	1	0.40	1.2
555633		2.39	<0.001	0.02	0.49	1.8	<10	0.63	0.03	1.26	0.05	12.80	7.8	15	0.41	3.9
555634		2.38	0.003	0.12	0.75	34.4	20	0.73	0.06	1.86	0.42	17.65	14.9	22	4.58	12.0
555635		3.50	0.342	0.20	1.12	0.8	50	0.61	0.08	4.08	0.37	20.1	7.9	30	0.89	26.3
555636		2.25	0.007	0.05	0.49	0.6	10	0.21	0.02	1.82	0.14	11.80	4.6	14	0.79	3.5
555637		2.65	0.004	0.07	0.75	11.7	10	0.30	0.02	1.95	0.13	16.55	6.6	19	1.02	7.3
555638		2.22	0.005	0.02	0.57	3.3	10	0.23	0.02	1.27	0.09	15.45	8.4	15	0.92	3.2
555639		0.07	7.64	1.35	6.34	34.3	320	0.99	0.52	3.01	0.09	31.9	40.9	327	0.70	116.5
555640		2.57	0.042	0.03	0.20	0.3	10	0.27	0.02	1.63	0.12	6.28	3.7	3	0.71	9.9



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 3-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233807**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
555621		25.5	0.75	0.05	<0.1	<0.005	0.009	0.05	2.7	1.0	4.11	6810	0.11	0.01	0.4	1.2
555622		28.4	0.16	0.06	<0.1	<0.005	<0.005	0.01	2.2	0.4	3.92	6210	0.07	<0.01	0.5	1.0
555623		27.6	0.15	<0.05	<0.1	<0.005	<0.005	0.01	2.2	0.3	4.09	6110	0.10	<0.01	0.5	1.1
555624		26.8	0.25	<0.05	<0.1	<0.005	0.005	0.02	4.1	0.4	3.71	12150	0.07	<0.01	0.7	1.2
555625		28.3	0.35	0.05	<0.1	<0.005	<0.005	0.02	8.1	0.5	4.01	10950	0.10	<0.01	0.8	1.2
555626		0.42	0.30	0.05	0.1	<0.005	<0.005	0.01	1.0	0.9	1.54	157	<0.05	0.06	0.1	0.6
555627		26.8	0.33	0.05	0.1	<0.005	<0.005	0.02	4.2	0.5	3.51	11600	0.12	<0.01	1.3	1.2
555628		26.0	0.38	0.05	<0.1	<0.005	<0.005	0.03	6.0	0.5	3.71	10300	0.06	0.01	0.8	1.1
555629		29.1	0.28	0.05	<0.1	<0.005	<0.005	0.02	3.6	0.3	4.06	10150	0.07	<0.01	0.3	1.0
555630		27.8	0.22	0.05	<0.1	<0.005	<0.005	0.01	3.9	0.3	4.01	9840	0.05	<0.01	0.3	0.9
555631		25.4	0.23	0.05	<0.1	<0.005	<0.005	0.01	4.4	0.4	3.91	7800	0.09	<0.01	0.5	1.0
555632		30.2	0.21	0.06	<0.1	<0.005	0.006	0.01	4.9	0.4	4.55	10200	<0.05	<0.01	0.7	1.4
555633		24.3	1.78	0.06	0.3	<0.005	0.010	0.03	6.5	3.1	3.07	14600	0.31	<0.01	2.7	8.6
555634		22.1	2.31	0.06	0.6	<0.005	0.015	0.37	8.6	6.4	2.85	13950	0.54	<0.01	5.2	15.8
555635		17.40	3.47	0.05	0.7	0.018	0.026	0.41	9.8	7.2	2.46	9790	1.57	0.01	5.3	19.0
555636		19.10	1.61	<0.05	0.4	<0.005	0.013	0.04	5.5	4.1	2.44	11050	0.23	<0.01	3.7	6.0
555637		22.8	2.71	0.06	0.5	<0.005	0.021	0.04	8.4	6.0	2.99	13100	0.59	<0.01	4.3	9.9
555638		21.6	2.19	0.05	0.5	<0.005	0.016	0.04	8.0	4.5	2.71	12150	0.36	<0.01	4.1	10.6
555639		5.73	14.95	0.12	2.4	0.165	0.042	1.13	16.2	15.3	4.14	774	6.06	1.23	16.5	259
555640		28.3	0.69	0.05	0.1	<0.005	0.009	0.06	3.9	2.0	3.75	10400	0.11	<0.01	0.6	4.6



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 3-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18233807**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555621		50	1.5	3.1	<0.002	0.60	0.27	0.2	1	<0.2	97.6	<0.05	1.64	0.06	<0.005	0.03
555622		70	<0.5	0.6	<0.002	0.02	0.08	0.1	<1	0.2	17.7	<0.05	<0.05	0.11	<0.005	<0.02
555623		90	<0.5	0.5	<0.002	0.01	0.14	0.1	<1	0.2	18.1	<0.05	<0.05	0.04	<0.005	<0.02
555624		150	<0.5	1.0	<0.002	0.02	0.09	0.2	<1	<0.2	22.9	<0.05	<0.05	0.09	0.005	<0.02
555625		250	0.5	1.1	<0.002	0.08	0.07	0.2	<1	<0.2	25.2	<0.05	<0.05	0.06	<0.005	<0.02
555626		80	<0.5	0.3	<0.002	0.06	0.05	0.4	1	<0.2	78.3	<0.05	<0.05	0.06	0.012	<0.02
555627		190	0.5	1.3	<0.002	0.02	0.09	0.2	<1	<0.2	15.7	<0.05	<0.05	0.12	0.007	<0.02
555628		150	0.5	2.0	<0.002	0.01	0.12	0.2	<1	<0.2	28.3	<0.05	<0.05	0.09	<0.005	<0.02
555629		130	<0.5	1.1	<0.002	0.06	0.09	0.1	<1	<0.2	23.4	<0.05	0.05	0.04	<0.005	<0.02
555630		180	<0.5	0.6	<0.002	0.15	0.07	0.1	<1	<0.2	22.8	<0.05	<0.05	0.05	<0.005	<0.02
555631		150	<0.5	0.8	<0.002	0.04	0.35	0.2	<1	<0.2	28.2	<0.05	<0.05	0.06	<0.005	<0.02
555632		150	0.5	0.5	<0.002	0.09	0.14	0.2	<1	<0.2	29.8	<0.05	<0.05	0.08	<0.005	<0.02
555633		330	1.0	1.3	<0.002	0.14	0.18	1.2	<1	<0.2	24.4	0.12	<0.05	0.51	0.041	0.04
555634		390	6.0	27.8	<0.002	1.24	0.49	2.3	1	0.3	72.2	0.29	0.07	0.93	0.088	0.42
555635		460	8.1	14.6	0.002	2.07	1.15	3.4	1	0.5	178.5	0.34	0.11	1.12	0.126	0.20
555636		360	0.9	3.3	<0.002	0.18	0.15	1.3	<1	0.2	47.9	0.28	<0.05	0.84	0.060	0.11
555637		480	3.0	3.5	<0.002	0.40	0.45	2.2	1	0.2	53.2	0.29	<0.05	0.83	0.084	0.11
555638		370	1.1	2.9	<0.002	0.19	0.26	1.7	1	<0.2	30.8	0.26	<0.05	0.79	0.067	0.11
555639		1150	10.0	39.1	<0.002	0.08	0.86	20.3	1	1.0	286	0.93	0.26	2.34	0.695	0.19
555640		230	1.4	3.1	<0.002	0.61	0.14	0.5	1	<0.2	50.9	0.05	<0.05	0.12	0.005	0.11



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 3-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233807**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555621		<0.1	13	0.1	7.5	33	2.3
555622		<0.1	12	0.1	4.9	9	2.0
555623		<0.1	13	0.1	5.1	7	1.9
555624		0.1	7	0.2	4.3	14	2.2
555625		0.1	8	0.1	5.9	21	2.3
555626		0.1	3	<0.1	2.5	3	1.8
555627		0.1	8	0.1	5.4	5	2.7
555628		0.1	10	0.1	6.4	8	2.7
555629		<0.1	8	0.1	5.6	7	1.6
555630		0.1	5	0.1	4.6	13	1.7
555631		0.1	6	0.1	4.3	14	2.1
555632		0.1	8	0.1	4.7	18	4.0
555633		0.5	30	0.2	5.0	9	11.8
555634		1.0	48	0.2	5.5	37	25.9
555635		1.7	60	0.4	7.9	60	32.3
555636		0.3	34	0.3	4.7	23	18.6
555637		0.6	48	0.3	6.2	30	22.7
555638		0.5	35	0.2	5.0	24	20.2
555639		0.6	150	8.8	15.5	88	97.5
555640		0.1	10	0.1	4.8	26	3.5



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **3-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233807**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Compte: MINVIR

## CERTIFICAT VO18233809

Projet: Kan

Bon de commande #: KANDH18-RUSH-045

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18233809**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
555641		2.29	0.177	0.07	0.19	1.6	10	0.24	0.01	1.37	0.09	5.87	4.3	2	1.08	13.4
555642		2.23	0.075	0.17	0.54	368	20	0.23	0.02	2.49	0.18	5.65	11.7	3	2.31	39.5
555643		2.20	0.179	0.42	0.68	214	10	0.17	0.03	6.12	0.29	7.54	18.8	3	3.16	110.5
555644		2.03	<0.001	0.07	1.04	9.6	20	0.29	0.02	1.16	0.16	15.75	10.3	26	0.58	16.5
555645		2.51	<0.001	0.03	0.81	5.7	<10	0.36	0.01	1.34	0.11	16.30	8.2	20	0.09	5.5
555646		0.24	<0.001	<0.01	0.08	<0.2	20	0.09	<0.01	33.4	0.02	0.99	0.6	2	<0.05	0.8
555647		2.11	<0.001	0.03	0.39	4.9	<10	0.34	0.01	3.80	0.09	12.90	4.6	10	0.07	4.0
555648		1.85	<0.001	0.01	0.32	3.1	<10	0.47	0.01	6.29	0.02	10.20	4.2	9	0.07	2.6
555649		2.43	<0.001	0.01	0.68	11.5	<10	0.41	0.02	1.97	0.07	14.10	8.6	15	0.78	4.0
555650		2.48	0.830	0.02	1.26	1.2	10	0.41	0.06	2.01	0.22	24.8	9.1	30	2.55	15.8
555651		2.28	0.386	0.02	0.41	629	10	0.30	0.04	6.39	0.23	10.85	6.2	10	5.28	9.2
555652		2.49	0.067	0.04	0.08	4.9	10	0.24	0.01	1.27	0.10	9.54	3.2	5	1.63	2.7
555653		2.21	0.213	0.01	0.12	3.3	10	0.18	0.02	1.25	0.09	5.91	4.9	7	2.92	6.1
555654		2.41	0.161	<0.01	0.20	2.4	10	0.21	0.01	1.34	0.13	8.13	3.7	3	2.11	5.8
555655		2.54	0.035	0.01	0.13	0.2	10	0.21	0.01	1.87	0.13	8.54	2.9	3	0.96	2.0
555656		2.40	<0.001	<0.01	0.07	<0.2	<10	0.22	<0.01	1.19	0.08	6.61	3.0	4	1.29	2.4
555657		2.51	<0.001	0.01	0.07	0.3	10	0.34	<0.01	1.48	0.07	7.42	4.2	3	1.96	4.5
555658		2.42	0.002	0.02	0.07	0.6	10	0.22	<0.01	1.23	0.07	4.84	4.2	4	2.42	5.1
555659		0.07	0.673	0.19	6.99	20.0	320	1.40	0.13	4.17	0.17	50.7	41.3	178	1.83	52.2
555660		2.56	<0.001	0.02	0.05	0.2	10	0.29	0.01	1.32	0.05	5.33	5.2	3	1.50	3.5



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18233809**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
555641		26.7	0.81	<0.05	0.1	<0.005	0.016	0.08	3.8	2.4	3.40	8660	0.11	<0.01	0.6	9.3
555642		23.3	1.97	<0.05	0.1	0.006	0.038	0.17	3.4	7.2	3.89	5560	0.10	<0.01	0.8	24.0
555643		19.80	2.41	<0.05	0.1	0.010	0.044	0.34	4.2	12.6	3.74	5800	0.14	<0.01	1.1	79.5
555644		18.90	4.02	<0.05	0.8	0.007	0.020	0.10	8.5	7.3	2.43	13500	0.45	<0.01	6.2	26.0
555645		22.3	3.22	<0.05	0.6	<0.005	0.018	0.01	9.0	5.0	2.77	15350	0.32	<0.01	5.7	12.2
555646		0.19	0.31	<0.05	0.1	0.005	0.006	0.01	1.2	0.9	1.26	138	<0.05	0.04	0.2	<0.2
555647		18.25	1.86	<0.05	0.3	<0.005	0.014	<0.01	6.4	2.2	3.02	11300	0.24	<0.01	2.8	6.7
555648		13.80	1.44	<0.05	0.3	<0.005	0.008	<0.01	5.1	1.5	3.33	7440	0.23	<0.01	2.4	5.1
555649		20.9	2.90	<0.05	0.5	<0.005	0.015	0.01	7.3	2.9	2.91	13250	0.34	<0.01	5.1	13.0
555650		26.9	5.25	0.05	1.1	0.018	0.034	0.10	14.7	6.3	3.78	14800	0.35	<0.01	7.3	19.7
555651		19.30	1.65	<0.05	0.3	0.010	0.015	0.08	6.2	1.8	4.06	7970	0.15	0.02	1.9	5.5
555652		26.2	0.46	<0.05	<0.1	<0.005	0.008	0.02	5.5	0.7	4.03	4570	0.09	0.01	0.4	1.1
555653		20.4	0.50	<0.05	<0.1	0.009	0.006	0.04	3.5	0.6	3.26	3640	0.12	0.01	0.4	1.4
555654		25.3	0.99	<0.05	<0.1	<0.005	0.009	0.03	5.0	1.2	3.79	6140	0.11	0.01	0.3	1.0
555655		23.6	0.68	<0.05	<0.1	<0.005	0.006	0.03	5.4	1.6	3.73	6880	0.10	<0.01	0.3	0.8
555656		21.8	0.46	<0.05	<0.1	<0.005	<0.005	0.02	4.4	0.5	3.28	6050	0.10	0.01	0.2	0.9
555657		25.5	0.47	<0.05	<0.1	<0.005	<0.005	0.02	5.0	0.5	3.89	6010	0.10	0.01	0.4	1.1
555658		25.4	0.39	<0.05	<0.1	<0.005	<0.005	0.03	3.3	0.4	3.79	4500	0.11	0.01	0.4	1.2
555659		6.98	19.15	0.05	3.7	0.026	0.065	0.85	23.0	13.9	2.80	902	1.78	1.62	19.9	136.0
555660		28.4	0.36	<0.05	<0.1	<0.005	<0.005	0.02	3.6	0.5	4.22	5520	0.08	0.01	0.4	1.4





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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18233809**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555641		190	1.3	4.5	<0.002	0.96	0.17	0.4	1	<0.2	40.1	0.05	0.06	0.14	<0.005	0.26
555642		80	2.4	10.6	<0.002	2.46	0.29	0.9	1	0.2	95.4	0.11	0.35	0.25	0.005	0.59
555643		50	5.0	23.3	<0.002	6.67	0.38	1.4	4	0.2	293	0.15	0.47	0.17	0.007	0.93
555644		410	4.6	6.1	<0.002	1.23	0.56	3.1	1	0.2	43.8	0.36	0.07	1.20	0.138	0.16
555645		560	1.8	0.3	<0.002	0.31	0.22	2.7	1	<0.2	31.0	0.34	<0.05	0.89	0.119	0.02
555646		60	0.5	0.4	<0.002	<0.01	<0.05	0.2	1	<0.2	83.0	<0.05	<0.05	0.08	0.005	<0.02
555647		490	1.4	0.3	<0.002	0.35	0.16	1.4	1	<0.2	73.8	0.19	<0.05	0.59	0.052	<0.02
555648		330	1.3	0.1	<0.002	0.07	0.13	1.0	<1	<0.2	80.9	0.16	<0.05	0.49	0.041	<0.02
555649		420	1.6	0.8	<0.002	0.21	0.16	2.1	1	<0.2	33.9	0.33	0.06	0.87	0.096	0.02
555650		660	2.5	7.4	<0.002	1.45	0.31	4.0	1	0.2	58.3	0.46	0.08	1.73	0.172	0.34
555651		240	2.1	4.4	<0.002	0.66	0.29	1.1	1	<0.2	141.5	0.11	0.80	0.37	0.033	0.07
555652		100	0.6	1.2	<0.002	0.14	0.09	0.2	<1	<0.2	28.6	<0.05	<0.05	0.06	<0.005	<0.02
555653		100	0.8	2.0	<0.002	0.37	0.19	0.1	<1	<0.2	31.8	<0.05	<0.05	0.03	<0.005	<0.02
555654		140	0.8	1.8	<0.002	0.37	0.10	0.2	1	<0.2	32.4	<0.05	<0.05	0.08	<0.005	0.03
555655		140	0.9	2.0	<0.002	0.14	0.09	0.3	<1	<0.2	49.6	<0.05	<0.05	0.08	<0.005	0.08
555656		80	0.6	0.8	<0.002	0.09	0.08	0.1	<1	<0.2	27.5	<0.05	<0.05	0.06	<0.005	<0.02
555657		170	0.7	1.2	<0.002	0.18	0.07	0.1	<1	0.2	31.5	<0.05	<0.05	0.07	<0.005	<0.02
555658		100	0.6	1.4	<0.002	0.22	0.06	0.1	1	0.2	24.5	<0.05	<0.05	0.04	<0.005	<0.02
555659		1110	12.8	39.4	<0.002	0.02	1.00	19.9	<1	1.6	335	1.15	0.05	5.07	0.883	0.18
555660		100	0.7	0.9	<0.002	0.17	0.07	0.1	<1	<0.2	24.3	<0.05	<0.05	0.06	<0.005	<0.02



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18233809**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555641		0.1	9	0.1	4.1	39	3.6
555642		0.1	18	0.1	4.2	92	4.8
555643		0.1	19	0.1	5.6	90	5.3
555644		0.8	87	0.3	5.1	63	33.9
555645		0.6	73	0.3	5.4	36	28.3
555646		0.2	1	<0.1	2.2	3	1.9
555647		0.3	33	0.2	4.8	18	14.0
555648		0.2	25	0.1	4.7	8	11.8
555649		0.5	53	0.2	5.9	19	25.3
555650		1.4	80	0.7	9.1	69	50.4
555651		0.4	21	0.3	7.2	43	11.5
555652		0.1	13	0.1	4.6	21	3.6
555653		<0.1	10	0.1	4.0	20	2.1
555654		0.1	13	0.1	4.4	33	2.7
555655		<0.1	8	0.1	5.6	31	2.2
555656		<0.1	5	0.1	3.9	17	1.9
555657		<0.1	8	0.1	4.5	15	2.6
555658		<0.1	8	0.1	3.8	14	1.7
555659		1.1	142	1.8	19.2	126	145.0
555660		<0.1	8	0.1	4.4	13	2.0





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## CERTIFICAT VO18233811

Projet: Kan

Bon de commande #: KANDH18-RUSH-046

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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 plus les pages d'annexe  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18233811**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555661		2.36	<0.001	0.01	0.04	0.3	10	0.32	<0.01	1.39	0.04	6.08	4.0	5	1.02	2.0
555662		2.58	<0.001	0.09	0.16	173.0	10	0.20	0.04	1.55	0.06	9.54	9.7	6	2.20	11.4
555663		2.34	<0.001	0.01	0.07	0.3	10	0.27	<0.01	1.46	0.06	5.05	3.5	6	1.61	2.2
555664		2.61	<0.001	0.01	0.09	0.5	10	0.31	<0.01	1.58	0.07	3.97	4.1	6	2.03	2.5
555665		2.72	<0.001	0.02	0.15	0.6	10	0.31	<0.01	1.14	0.05	3.93	4.0	7	1.84	4.3
555666		0.21	<0.001	0.01	0.09	0.5	20	0.08	0.12	32.1	<0.02	1.19	0.9	2	0.06	2.0
555667		2.34	<0.001	0.05	0.17	1.5	10	0.33	0.01	1.43	0.07	7.40	6.5	14	1.36	11.1
555668		2.37	<0.001	0.01	0.07	1.3	10	0.31	0.01	1.32	0.03	10.55	3.0	8	1.50	1.5
555669		2.68	<0.001	0.02	0.23	1.1	10	0.49	0.02	2.29	0.04	11.70	5.0	10	3.38	3.6
555670		2.28	<0.001	0.01	0.15	4.1	10	0.19	0.01	5.43	0.06	9.59	3.3	12	0.83	2.8
555671		2.51	<0.001	0.02	0.21	3.0	10	0.30	0.02	6.87	0.15	11.00	3.4	13	1.50	3.0
555672		2.24	0.004	0.07	0.39	3.1	<10	0.18	0.04	4.18	0.19	10.25	6.3	16	0.77	18.2
555673		2.39	0.003	0.04	0.41	0.4	10	0.37	0.03	8.58	0.21	16.30	3.8	10	0.09	11.6
555674		1.63	0.003	0.05	0.28	11.2	<10	0.21	0.05	4.57	0.15	17.85	6.5	17	0.10	13.1
555675		1.97	0.055	0.49	3.16	2.9	30	0.66	0.40	0.33	0.08	55.2	27.3	52	0.43	128.0
555676		3.52	0.059	0.03	0.34	46.4	<10	0.20	0.02	7.92	0.23	11.95	3.2	8	0.16	6.8
555677		2.35	0.083	0.01	0.20	20.6	10	0.18	0.02	8.27	0.15	10.45	3.4	7	1.79	4.8
555678		2.23	<0.001	0.01	0.20	<0.2	10	0.25	0.01	8.12	0.15	10.65	3.4	11	2.55	3.2
555679		0.07	2.53	0.43	6.76	11.9	320	1.14	0.18	4.70	0.07	43.0	52.9	305	0.67	82.4
555680		2.39	0.001	0.01	0.23	0.2	20	0.41	0.02	4.03	0.06	13.80	5.8	9	5.71	5.1



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 30-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233811**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555661		26.0	0.38	<0.05	<0.1	<0.005	<0.005	0.02	4.2	0.5	4.07	6880	0.05	0.01	0.4	2.4
555662		26.2	0.87	<0.05	0.1	0.015	0.007	0.03	5.5	0.7	3.98	7710	0.16	0.01	1.4	6.1
555663		23.0	0.43	<0.05	0.1	<0.005	<0.005	0.02	3.2	0.5	3.87	5540	0.08	0.01	0.4	1.9
555664		24.3	0.48	<0.05	0.1	0.005	0.006	0.03	2.5	0.6	4.22	5030	0.09	0.01	0.6	2.3
555665		21.6	0.80	<0.05	0.1	<0.005	0.007	0.02	2.5	0.8	3.56	4680	0.08	0.01	0.5	1.9
555666		0.39	0.33	<0.05	0.1	<0.005	<0.005	0.02	1.4	21.9	1.61	134	0.26	0.03	0.1	1.1
555667		23.7	0.81	<0.05	0.1	<0.005	0.007	0.02	4.8	0.9	3.59	5700	0.13	0.01	1.0	4.2
555668		20.3	0.54	<0.05	<0.1	<0.005	<0.005	0.02	6.4	0.5	2.81	6700	0.16	0.01	0.7	5.2
555669		22.0	1.46	<0.05	0.1	<0.005	0.007	0.04	7.1	1.1	3.04	6750	0.36	0.01	1.7	4.7
555670		16.85	1.01	<0.05	0.2	<0.005	0.005	0.01	5.4	1.0	3.60	4750	0.35	<0.01	1.7	5.1
555671		18.25	1.29	<0.05	0.1	<0.005	0.007	0.02	6.1	1.4	4.23	5000	0.54	0.01	1.6	4.7
555672		14.30	1.89	<0.05	0.2	<0.005	0.016	0.02	5.7	6.4	2.88	4010	1.35	0.01	1.5	6.7
555673		20.5	2.76	<0.05	0.2	0.006	0.015	0.01	10.2	8.1	5.29	5350	0.95	<0.01	1.9	5.8
555674		13.05	1.64	<0.05	0.2	0.013	0.007	0.01	11.2	4.7	2.93	3610	2.56	<0.01	2.8	7.8
555675		20.3	15.30	0.07	2.2	0.057	0.034	0.14	31.0	51.7	1.53	703	22.1	0.01	11.8	39.6
555676		16.10	1.90	<0.05	0.1	0.009	0.016	0.01	6.7	6.2	4.27	5050	0.52	<0.01	0.8	3.7
555677		15.90	1.06	0.06	0.1	0.006	0.008	0.02	5.7	1.4	4.09	4950	0.46	0.01	1.0	4.4
555678		14.15	1.07	0.05	0.1	0.007	0.007	0.03	5.9	1.5	3.79	4390	0.42	0.02	1.1	5.9
555679		7.37	17.80	0.10	3.2	0.048	0.060	0.97	21.5	8.9	5.53	1060	2.93	1.96	29.1	355
555680		23.2	1.59	0.09	0.1	0.008	0.006	0.06	8.2	1.0	3.67	6110	0.47	0.02	1.8	5.7



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 30-SEPT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233811**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555661		100	0.5	0.7	<0.002	0.01	0.05	0.2	<1	<0.2	25.2	<0.05	<0.05	0.11	<0.005	<0.02
555662		270	1.6	1.4	<0.002	0.56	0.26	0.5	1	<0.2	31.2	0.07	0.10	0.35	0.019	<0.02
555663		100	0.6	0.9	<0.002	0.02	0.07	0.2	<1	0.2	30.9	<0.05	<0.05	0.08	<0.005	<0.02
555664		50	0.7	1.1	<0.002	0.05	0.13	0.2	<1	0.2	31.5	<0.05	<0.05	0.09	0.005	<0.02
555665		90	0.6	1.1	<0.002	0.26	0.12	0.3	<1	<0.2	22.9	<0.05	<0.05	0.09	0.005	<0.02
555666		80	0.5	0.6	<0.002	0.01	0.38	0.3	1	<0.2	78.7	<0.05	0.07	0.08	0.007	<0.02
555667		220	1.1	0.9	<0.002	0.75	0.13	0.4	1	0.2	26.4	0.06	0.06	0.14	0.009	0.02
555668		470	0.8	0.9	<0.002	0.04	0.71	0.2	1	<0.2	19.9	<0.05	<0.05	0.09	<0.005	<0.02
555669		290	1.4	1.8	<0.002	0.26	0.22	0.5	<1	<0.2	36.0	0.09	<0.05	0.26	0.013	<0.02
555670		110	1.8	0.5	<0.002	0.16	0.26	0.4	1	<0.2	72.2	0.10	<0.05	0.29	0.013	0.02
555671		130	2.3	1.2	<0.002	0.26	0.25	0.6	<1	<0.2	122.0	0.09	0.05	0.32	0.014	0.04
555672		160	2.6	1.0	<0.002	0.99	0.27	1.0	1	<0.2	83.4	0.11	0.17	0.35	0.019	0.05
555673		130	3.6	0.3	<0.002	0.59	0.25	1.0	1	<0.2	137.0	0.12	0.08	0.48	0.025	0.03
555674		800	4.0	0.5	0.003	0.81	0.54	0.7	1	0.2	82.1	0.15	0.10	0.44	0.022	0.06
555675		500	14.3	4.5	0.016	6.90	2.87	7.7	6	0.5	12.7	0.61	1.21	3.83	0.240	0.40
555676		100	2.7	0.3	<0.002	0.38	0.22	0.7	1	0.2	155.5	0.06	0.09	0.24	0.010	0.03
555677		200	2.7	1.2	<0.002	0.26	0.17	0.6	<1	<0.2	161.5	0.07	<0.05	0.24	0.011	0.03
555678		90	2.8	1.6	<0.002	0.11	0.17	0.6	<1	<0.2	176.0	0.07	<0.05	0.22	0.015	0.02
555679		1880	5.0	31.3	<0.002	0.03	0.32	22.1	<1	1.2	478	1.58	0.07	2.80	1.050	0.06
555680		220	2.1	2.9	<0.002	0.37	0.17	0.6	<1	<0.2	64.3	0.09	0.06	0.27	0.017	0.03



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 30-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18233811**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555661		<0.1	7	0.1	4.5	9	1.7
555662		0.1	12	0.8	5.2	16	5.9
555663		0.1	7	0.1	4.2	17	3.1
555664		<0.1	8	0.2	4.1	17	3.1
555665		<0.1	12	0.1	3.5	15	2.7
555666		0.1	2	<0.1	2.1	7	2.0
555667		0.1	14	0.2	4.6	21	4.3
555668		0.1	10	0.1	5.3	8	2.4
555669		0.3	25	0.2	6.1	12	7.2
555670		0.3	21	0.1	5.6	13	7.3
555671		0.4	26	0.2	7.0	22	7.6
555672		0.5	28	0.1	5.4	44	9.0
555673		0.6	43	0.2	9.3	43	12.2
555674		1.2	21	0.6	7.3	29	8.9
555675		8.3	142	0.4	11.0	192	97.1
555676		0.3	25	0.2	7.6	41	5.3
555677		0.3	16	0.1	7.4	21	5.5
555678		0.2	17	0.1	8.3	16	5.9
555679		0.6	149	3.0	21.4	107	142.5
555680		0.3	23	0.2	6.4	13	7.5





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **30-SEPT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233811**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada

Applique à la Méthode:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applique à la Méthode:	Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 1-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18233813

Projet: Kan

Bon de commande #: KANDH18-RUSH-047

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 1-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18233813**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555681		2.40	<0.001	0.02	0.18	2.5	20	0.27	0.03	3.21	0.06	12.05	5.3	9	5.49	5.5
555682		2.51	<0.001	0.01	0.45	3.3	10	0.24	0.02	6.17	0.06	7.83	4.9	12	4.52	3.1
555683		2.32	<0.001	0.01	0.61	2.5	20	0.57	0.03	2.60	0.07	25.6	6.9	13	8.25	4.3
555684		2.46	0.003	0.01	0.23	1.6	20	0.30	0.02	0.96	0.05	11.25	4.8	10	5.76	4.3
555685		2.39	<0.001	0.01	0.32	1.5	20	0.33	0.02	1.54	0.06	12.30	5.5	14	8.62	2.6
555686		0.22	<0.001	<0.01	0.05	<0.2	10	<0.05	0.01	33.3	<0.02	0.92	0.5	2	<0.05	0.7
555687		2.20	0.012	0.02	0.04	75.1	<10	0.22	0.01	1.02	0.04	3.53	3.5	9	1.34	2.7
555688		2.30	0.846	0.03	0.13	1.2	10	0.27	0.02	2.30	0.12	5.53	4.1	5	4.66	5.4
555689		2.45	0.616	0.01	0.13	11.6	10	0.27	0.01	1.54	0.08	6.17	3.4	17	5.29	3.9
555690		2.65	0.545	0.02	0.17	6.9	20	0.38	0.01	1.49	0.05	9.53	4.5	6	7.43	5.0
555691		2.64	<0.001	<0.01	0.13	0.6	10	0.31	0.01	2.07	0.07	5.78	3.6	6	5.73	1.7
555692		2.33	<0.001	<0.01	0.31	2.4	30	0.45	0.01	4.85	0.08	9.37	6.7	9	12.40	2.0
555693		2.60	<0.001	0.01	0.75	3.9	30	0.56	0.02	2.43	0.05	17.80	7.3	18	14.25	3.6
555694		2.59	<0.001	0.02	0.80	25.9	20	0.86	0.03	2.31	0.02	19.25	7.5	20	8.34	4.8
555695		2.43	<0.001	0.02	0.69	5.8	20	0.96	0.04	3.19	<0.02	15.85	8.2	23	6.59	4.6
555696		2.39	<0.001	0.01	0.22	3.1	10	0.71	0.02	2.30	<0.02	13.15	6.0	8	1.88	1.6
555697		2.43	0.006	0.05	0.24	1.0	10	0.75	0.02	3.03	<0.02	13.20	5.5	8	2.38	2.1
555698		2.33	<0.001	0.04	0.17	3.9	10	0.67	0.02	2.98	<0.02	9.28	5.3	8	4.10	2.2
555699		0.07	7.62	1.33	6.27	33.9	320	0.91	0.51	2.99	0.09	31.4	40.7	334	0.70	114.5
555700		2.32	0.002	0.01	0.24	12.5	10	0.75	0.03	1.89	<0.02	9.90	4.7	9	5.77	2.9



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 1-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233813**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555681		22.2	1.03	0.05	0.1	<0.005	0.005	0.06	6.9	0.9	3.51	5820	0.36	0.02	1.1	5.5
555682		17.55	2.00	<0.05	0.2	<0.005	0.005	0.05	4.8	1.8	3.60	6010	1.07	0.02	1.3	4.2
555683		26.9	2.59	0.06	0.6	0.005	0.013	0.08	13.8	2.0	3.72	12950	0.55	0.03	5.7	7.3
555684		23.3	0.90	<0.05	0.1	<0.005	0.006	0.06	6.3	0.7	2.77	11300	0.37	0.02	1.2	4.4
555685		24.8	1.20	0.05	0.2	<0.005	0.008	0.09	6.7	0.9	3.63	9360	0.33	0.03	2.3	5.8
555686		0.20	0.14	0.05	<0.1	<0.005	<0.005	0.01	1.1	0.7	1.06	120	<0.05	0.02	0.1	<0.2
555687		16.70	0.19	0.05	<0.1	<0.005	<0.005	0.01	2.1	0.3	2.77	4810	0.08	0.01	0.5	2.1
555688		25.0	0.52	0.05	0.1	0.032	0.006	0.05	3.2	0.5	4.42	5870	0.08	0.02	0.9	1.9
555689		24.3	0.55	<0.05	0.1	<0.005	0.005	0.05	3.7	0.5	4.10	5950	0.10	0.02	0.8	1.8
555690		24.7	0.66	0.06	0.1	0.005	0.005	0.08	5.7	0.6	4.04	7050	0.15	0.03	1.6	3.4
555691		23.8	0.46	<0.05	<0.1	<0.005	<0.005	0.06	3.4	0.6	4.27	6620	0.08	0.02	0.6	1.6
555692		21.2	1.06	0.05	0.1	0.006	0.006	0.12	5.4	1.1	4.24	8210	0.22	0.04	1.5	4.8
555693		28.8	2.59	0.06	0.4	0.012	0.013	0.14	9.9	2.3	4.39	13700	0.27	0.05	3.5	7.7
555694		27.8	2.66	0.08	0.4	0.024	0.013	0.09	10.2	2.8	4.22	13800	0.35	0.03	3.8	8.5
555695		21.5	2.41	0.05	0.5	0.020	0.011	0.07	8.2	2.5	3.68	9510	0.35	0.03	4.6	10.0
555696		23.4	0.79	0.05	0.1	0.011	0.006	0.02	6.8	1.0	3.79	10500	0.33	0.01	3.0	4.7
555697		24.9	0.86	0.05	0.1	0.011	0.005	0.03	7.0	1.2	4.25	10650	0.37	0.01	3.6	4.4
555698		21.7	0.69	<0.05	0.1	0.013	0.005	0.04	5.0	0.8	3.93	8700	0.24	0.02	2.4	3.6
555699		5.71	14.70	0.11	2.4	0.160	0.046	1.10	16.1	15.1	4.11	768	6.01	1.22	16.6	256
555700		23.4	1.04	0.05	0.1	0.009	0.006	0.06	5.7	0.9	3.63	10250	0.24	0.02	2.3	4.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 1-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233813**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555681		250	1.5	2.6	<0.002	0.40	0.36	0.4	1	<0.2	54.7	0.05	<0.05	0.28	0.011	0.02
555682		200	1.7	2.1	<0.002	0.16	0.23	0.7	<1	<0.2	91.7	0.08	<0.05	0.53	0.020	0.02
555683		810	1.7	3.8	0.002	0.30	0.29	1.4	1	<0.2	43.7	0.26	0.05	1.13	0.043	0.02
555684		430	0.7	2.6	<0.002	0.27	0.14	0.5	1	<0.2	16.4	0.06	<0.05	0.33	0.016	<0.02
555685		360	1.2	3.8	<0.002	0.13	0.17	0.8	<1	<0.2	28.6	0.10	<0.05	0.44	0.030	<0.02
555686		60	<0.5	0.1	<0.002	<0.01	0.06	0.1	1	<0.2	82.6	<0.05	<0.05	0.06	<0.005	<0.02
555687		80	0.5	0.6	<0.002	0.04	0.07	0.2	<1	0.2	18.2	<0.05	0.07	0.06	<0.005	<0.02
555688		190	1.1	2.1	<0.002	0.32	0.07	0.3	<1	<0.2	53.3	0.05	<0.05	0.11	0.008	<0.02
555689		160	0.7	2.3	<0.002	0.24	0.08	0.3	1	<0.2	32.4	<0.05	<0.05	0.12	0.007	<0.02
555690		270	0.8	3.3	<0.002	0.20	0.13	0.4	1	<0.2	29.8	0.07	<0.05	0.24	0.019	<0.02
555691		150	0.8	2.5	<0.002	<0.01	0.10	0.2	<1	0.2	41.6	<0.05	<0.05	0.10	0.005	<0.02
555692		270	1.3	5.2	<0.002	0.05	0.30	0.7	1	0.2	69.5	0.08	<0.05	0.31	0.020	<0.02
555693		530	1.2	6.1	<0.002	0.14	0.48	2.1	<1	<0.2	36.2	0.17	<0.05	0.69	0.062	0.02
555694		630	1.6	3.7	<0.002	0.18	0.41	2.2	1	0.2	29.8	0.18	0.07	0.75	0.067	0.02
555695		530	2.1	3.0	<0.002	0.16	0.36	1.9	1	<0.2	39.1	0.22	0.06	0.85	0.073	0.02
555696		510	1.0	0.8	<0.002	0.05	0.24	0.6	1	<0.2	24.2	0.09	<0.05	0.49	0.023	<0.02
555697		420	1.1	1.1	<0.002	0.05	0.18	0.7	1	<0.2	28.7	0.12	<0.05	0.54	0.023	<0.02
555698		260	1.2	1.8	<0.002	0.06	0.23	0.5	1	<0.2	30.3	0.07	<0.05	0.42	0.016	<0.02
555699		1130	9.9	38.7	<0.002	0.08	0.82	20.1	1	1.0	284	0.94	0.25	2.32	0.685	0.19
555700		290	1.0	2.6	<0.002	0.08	0.20	0.6	<1	<0.2	20.2	0.08	<0.05	0.35	0.021	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 1-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233813**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
555681		0.3	18	0.2	5.6	10	5.5
555682		0.4	22	0.2	5.6	9	6.4
555683		0.8	41	0.3	9.7	16	33.9
555684		0.3	17	0.2	4.8	12	5.8
555685		0.4	25	0.2	5.7	13	10.0
555686		0.1	1	<0.1	2.0	2	1.4
555687		0.1	6	0.2	2.6	10	1.9
555688		0.1	11	0.1	4.7	20	3.0
555689		0.1	11	0.1	3.6	18	2.9
555690		0.1	14	0.2	4.9	11	5.2
555691		0.1	10	0.1	4.9	15	2.8
555692		0.3	21	0.2	6.5	15	7.1
555693		0.6	40	0.3	8.2	15	17.1
555694		0.8	42	0.3	9.3	9	18.0
555695		0.7	46	0.2	9.1	7	21.4
555696		0.3	17	0.2	7.1	4	6.8
555697		0.3	18	0.3	7.3	5	7.4
555698		0.4	14	0.2	6.2	4	5.2
555699		0.6	148	9.0	15.2	89	95.9
555700		0.3	19	0.1	6.7	5	6.5



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **1-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233813**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 30-SEPT-2018  
Compte: MINVIR

## CERTIFICAT VO18233836

Projet: Kan

Bon de commande #: KANDH18-RUSH-055

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 19-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 30-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233836**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555841		1.81	<0.001	0.13	0.35	0.4	<10	0.37	0.01	1.22	0.11	9.85	4.2	6	0.55	2.2
555842		1.44	<0.001	0.08	1.23	8.9	20	0.65	0.04	1.25	0.22	19.60	10.3	27	1.24	9.1
555843		3.09	0.002	0.19	7.51	6.4	380	3.06	0.17	0.55	0.24	64.4	21.1	104	4.28	47.7
555844		2.23	<0.001	0.11	7.42	67.7	370	1.53	0.05	3.28	0.60	30.3	34.4	137	3.42	34.0
555845		2.04	<0.001	0.05	8.05	25.6	480	1.68	0.03	1.62	0.22	41.4	25.0	116	3.93	60.4
555846		0.19	<0.001	<0.01	0.15	0.4	20	0.07	<0.01	34.2	0.02	1.34	0.8	3	0.07	1.2
555847		2.05	<0.001	0.10	7.14	67.3	520	1.31	0.01	4.69	0.71	13.10	39.5	140	2.98	39.8
555848		1.23	<0.001	0.13	7.25	74.0	500	1.13	0.01	4.07	0.84	10.50	47.0	156	2.70	74.6
555849		1.82	0.001	0.13	1.00	0.5	20	0.26	0.04	8.75	0.49	12.50	7.3	17	3.57	24.1
555850		2.47	0.001	0.09	0.50	1.8	40	0.26	0.05	8.00	0.32	8.59	2.6	9	5.59	15.7
555851		2.18	0.002	0.19	0.28	1.6	10	0.10	0.15	1.73	0.08	5.96	3.5	17	0.43	28.0
555852		2.46	<0.001	0.13	0.18	0.8	20	0.14	0.05	10.00	0.39	8.24	2.8	4	1.73	25.3
555853		2.42	0.004	0.08	0.41	0.9	30	0.22	0.05	6.47	0.28	14.85	4.8	9	2.43	16.1
555854		1.25	0.013	0.19	0.80	3.6	20	0.25	0.12	4.00	0.37	13.55	8.9	18	0.28	30.8
555855		3.25	<0.001	0.38	6.22	64.6	300	1.76	0.15	2.54	0.37	39.5	14.7	76	2.38	98.0
555856		2.34	<0.001	0.26	7.89	26.8	460	2.39	0.07	2.23	0.75	42.0	19.5	109	3.43	92.6
555857		0.91	0.002	0.30	6.01	9.0	300	1.81	0.02	4.10	0.18	19.20	21.0	108	2.57	116.5
555858		2.03	<0.001	0.18	0.11	0.2	<10	0.15	0.01	2.76	0.03	10.85	1.4	13	0.05	17.6
555859		0.07	2.55	0.45	6.80	11.6	320	1.10	0.16	4.66	0.07	43.8	51.2	310	0.67	84.1
555860		2.33	<0.001	0.09	0.07	1.8	10	0.31	0.01	4.05	0.04	7.52	1.6	13	<0.05	10.1



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 30-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18233836**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
555841		26.9	1.26	<0.05	0.2	<0.005	0.006	0.03	5.7	2.9	3.52	10150	0.25	<0.01	1.7	3.9
555842		23.4	3.82	<0.05	0.7	<0.005	0.017	0.15	10.0	7.5	2.85	14350	0.43	<0.01	6.0	11.5
555843		12.30	20.6	0.05	2.2	0.011	0.057	2.66	31.9	55.0	1.99	890	2.25	0.03	16.2	48.3
555844		9.00	17.25	<0.05	1.8	<0.005	0.055	2.84	15.1	52.5	2.94	1300	1.18	0.04	4.9	92.4
555845		7.22	18.80	0.05	2.0	<0.005	0.055	3.16	21.6	52.4	2.24	557	2.57	0.05	5.1	71.9
555846		0.20	0.40	<0.05	0.1	<0.005	<0.005	0.06	1.3	1.7	1.73	110	0.07	0.03	0.2	0.7
555847		8.76	16.10	<0.05	1.5	0.005	0.067	2.42	5.6	59.4	3.68	1120	0.50	0.04	3.4	84.1
555848		9.95	16.75	<0.05	1.5	0.008	0.077	2.14	3.8	58.4	3.68	1300	0.21	0.04	3.0	91.3
555849		17.40	3.19	<0.05	0.3	<0.005	0.024	0.11	6.8	10.6	4.26	6190	0.32	<0.01	2.9	8.4
555850		13.65	1.65	<0.05	0.1	0.005	0.040	0.14	4.5	6.5	3.78	5050	0.53	<0.01	0.8	3.7
555851		10.65	1.39	<0.05	0.1	0.005	0.009	0.02	3.5	3.3	1.54	2240	1.84	<0.01	2.1	9.2
555852		16.30	0.66	<0.05	<0.1	0.007	0.024	0.04	4.1	3.0	4.60	7280	0.40	<0.01	0.5	4.7
555853		20.7	1.43	<0.05	0.2	<0.005	0.029	0.11	7.8	5.3	4.15	10500	0.20	<0.01	2.0	5.7
555854		20.2	2.91	<0.05	0.4	0.005	0.034	0.04	6.9	12.8	2.91	11550	0.27	<0.01	3.0	17.0
555855		10.55	14.90	<0.05	1.6	0.014	0.045	2.02	21.1	52.2	2.29	2360	2.63	0.07	2.3	48.7
555856		8.02	19.05	<0.05	2.1	0.023	0.058	2.95	21.9	67.0	2.55	1000	3.85	0.11	3.1	72.4
555857		8.44	14.50	<0.05	1.4	<0.005	0.056	2.13	8.6	67.8	3.60	2550	0.99	0.08	1.9	80.9
555858		14.05	0.53	<0.05	0.1	<0.005	0.005	0.03	6.3	1.8	3.11	2220	0.78	<0.01	1.6	10.3
555859		7.33	17.00	<0.05	3.4	0.054	0.059	0.96	21.6	9.1	5.52	1040	2.93	1.95	28.5	351
555860		12.75	0.61	<0.05	0.1	<0.005	<0.005	0.01	4.8	2.6	3.56	1990	0.43	<0.01	0.9	5.8



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 30-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233836**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555841		680	1.4	2.7	<0.002	0.05	0.21	0.6	<1	<0.2	24.8	0.07	<0.05	0.56	0.025	0.08
555842		560	1.9	10.3	<0.002	0.37	0.30	2.5	<1	0.4	29.5	0.30	0.08	1.43	0.107	0.30
555843		270	7.3	101.0	0.004	1.83	1.37	13.1	1	1.6	30.3	0.95	0.07	8.49	0.348	1.59
555844		280	5.8	99.7	0.004	0.86	0.96	27.9	1	1.0	127.0	0.34	0.05	4.34	0.449	1.34
555845		280	3.2	106.5	0.009	0.54	1.47	24.3	1	1.3	62.9	0.40	<0.05	6.85	0.438	1.59
555846		50	0.5	1.7	<0.002	0.01	0.06	0.4	1	<0.2	82.2	<0.05	<0.05	0.18	0.010	0.03
555847		340	2.9	75.8	0.003	0.03	0.64	39.4	<1	0.8	152.0	0.22	<0.05	1.47	0.640	1.20
555848		430	3.0	66.6	0.002	0.12	0.69	44.1	1	0.8	131.5	0.20	<0.05	0.36	0.753	1.12
555849		140	3.3	9.9	<0.002	1.51	0.26	1.8	1	<0.2	211	0.17	0.09	1.10	0.051	0.62
555850		70	2.3	12.3	<0.002	0.79	0.25	0.9	1	0.2	177.5	0.06	0.08	0.18	0.012	0.75
555851		110	2.1	1.3	0.002	1.74	0.36	0.7	1	<0.2	36.2	0.09	0.16	0.30	0.019	0.06
555852		20	2.8	2.3	<0.002	1.13	0.22	0.3	1	<0.2	264	<0.05	0.07	0.06	<0.005	0.10
555853		570	1.9	6.4	<0.002	0.92	0.14	0.7	1	<0.2	140.5	0.12	0.06	0.55	0.030	0.27
555854		440	2.1	2.1	<0.002	1.98	0.23	1.8	1	<0.2	104.5	0.20	0.14	0.71	0.071	0.08
555855		180	5.0	60.6	0.008	2.33	1.12	10.9	3	0.9	75.5	0.15	0.16	6.55	0.119	2.77
555856		250	5.0	90.9	0.009	2.31	1.06	22.9	3	1.4	68.3	0.18	0.07	6.77	0.141	4.31
555857		280	5.8	68.1	0.003	2.31	0.68	29.2	1	1.4	120.5	0.12	0.09	2.23	0.196	3.06
555858		190	1.5	0.9	<0.002	1.46	0.17	0.4	<1	<0.2	33.5	0.12	<0.05	0.30	0.009	0.04
555859		1860	5.4	30.6	<0.002	0.04	0.33	19.9	<1	1.3	476	1.55	0.08	2.83	1.070	0.07
555860		230	1.2	0.3	<0.002	0.52	0.09	0.3	<1	<0.2	30.0	<0.05	<0.05	0.17	0.009	0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 30-SEPT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233836**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555841		2.3	16	1.0	5.7	8	8.2
555842		1.1	63	0.5	6.1	22	29.7
555843		5.3	229	1.5	6.6	146	81.6
555844		1.4	255	1.0	5.0	202	60.5
555845		3.0	304	1.0	5.4	197	69.3
555846		0.2	3	0.1	2.2	5	2.2
555847		0.4	342	0.8	5.2	165	67.8
555848		0.1	381	0.7	5.3	258	49.1
555849		0.9	41	0.3	7.3	69	12.3
555850		0.3	20	0.2	6.6	42	5.0
555851		0.6	16	0.1	2.7	26	7.1
555852		<0.1	10	0.2	7.7	31	2.4
555853		0.4	19	0.2	7.5	38	7.9
555854		0.6	44	0.2	5.8	51	16.9
555855		3.1	202	0.6	5.6	125	54.9
555856		3.8	286	0.9	6.0	199	74.2
555857		1.1	272	1.2	5.5	107	50.1
555858		0.6	7	0.2	4.7	18	4.1
555859		0.6	145	3.3	20.8	104	140.0
555860		0.8	7	0.4	4.6	11	4.1





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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 2-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18233838

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Bon de commande #: KANDH18-RUSH-048

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233838**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555701		2.48	0.002	0.04	0.22	5.6	20	1.05	0.02	1.98	<0.02	10.25	6.1	9	7.06	2.6
555702		2.36	0.001	0.01	0.29	16.1	20	0.60	0.02	1.59	0.04	12.05	5.9	14	8.63	3.4
555703		2.36	<0.001	0.01	0.07	10.1	10	0.37	0.01	1.38	0.05	7.11	4.8	5	2.72	1.4
555704		2.47	0.001	0.01	0.05	1.6	10	0.40	0.01	2.04	0.08	6.42	2.5	3	1.96	0.4
555705		2.55	<0.001	<0.01	0.07	4.0	10	0.27	0.01	1.76	0.09	5.50	3.5	10	2.82	1.1
555706		0.21	<0.001	<0.01	0.05	<0.2	20	<0.05	0.01	35.0	<0.02	0.85	0.6	2	0.08	0.8
555707		2.33	0.094	<0.01	0.07	0.3	10	0.29	<0.01	1.86	0.06	4.50	2.5	7	3.06	1.2
555708		2.45	<0.001	<0.01	0.07	1.9	<10	0.26	0.01	1.52	0.06	4.77	4.2	5	2.24	2.3
555709		2.42	0.003	0.03	0.10	123.0	<10	0.46	0.05	1.50	0.03	6.06	8.5	5	3.47	5.8
555710		2.36	<0.001	0.01	0.33	11.0	10	0.60	0.02	1.16	0.02	10.10	7.0	9	3.42	3.4
555711		2.44	<0.001	0.01	0.58	0.7	20	0.58	0.02	1.72	0.02	12.75	5.1	18	1.02	5.1
555712		2.57	0.001	0.06	0.50	18.7	10	0.27	0.03	4.18	0.04	20.8	7.9	27	0.12	24.3
555713		2.24	0.006	0.04	0.34	31.0	<10	0.23	0.02	5.40	0.03	10.95	4.9	14	<0.05	12.7
555714		2.44	0.001	0.01	0.09	4.5	<10	0.28	0.01	9.08	0.05	13.65	2.6	5	<0.05	2.0
555715		2.46	0.018	0.04	0.09	61.5	<10	0.25	0.02	5.31	0.07	15.20	3.4	12	<0.05	5.3
555716		1.86	0.004	0.05	0.04	1.1	<10	0.22	0.02	4.45	0.03	7.98	4.5	9	<0.05	6.7
555717		2.98	<0.001	0.01	0.20	2.5	<10	0.54	0.01	3.58	<0.02	7.78	2.8	7	0.18	2.0
555718		2.33	<0.001	<0.01	0.07	0.6	<10	0.28	<0.01	6.63	0.05	6.55	2.0	6	0.24	1.2
555719		0.07	0.673	0.20	7.60	19.5	340	1.29	0.12	4.53	0.16	49.4	42.2	182	1.81	52.8
555720		2.39	<0.001	0.04	0.36	7.8	10	0.60	0.02	3.08	0.03	11.85	6.2	10	0.41	4.2



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233838**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555701		25.8	1.09	0.07	0.2	0.009	0.006	0.08	6.0	0.8	3.98	11450	0.33	0.03	2.8	5.3
555702		23.2	1.39	0.07	0.2	0.007	0.006	0.10	7.3	1.0	3.31	10650	0.24	0.03	2.5	5.3
555703		23.5	0.45	0.07	0.1	0.005	<0.005	0.03	4.5	0.4	3.51	9440	0.19	0.01	1.0	3.0
555704		24.4	0.37	0.06	<0.1	0.006	<0.005	0.02	4.2	0.4	3.90	9460	0.05	0.01	0.5	0.8
555705		27.1	0.44	0.08	<0.1	<0.005	<0.005	0.03	3.6	0.4	4.36	8630	0.06	0.01	0.5	1.2
555706		0.24	0.20	0.05	<0.1	<0.005	<0.005	0.01	1.1	1.4	1.51	139	<0.05	0.02	0.1	0.2
555707		19.10	0.40	0.05	<0.1	<0.005	<0.005	0.04	2.8	0.4	3.17	5510	0.06	0.01	0.5	1.0
555708		25.3	0.41	0.09	0.1	<0.005	<0.005	0.03	3.1	0.4	4.06	6950	0.13	0.01	0.8	1.7
555709		26.2	1.40	0.08	0.1	<0.005	<0.005	0.05	4.0	0.4	4.00	7820	0.24	0.02	1.3	3.8
555710		26.6	1.76	0.09	0.2	<0.005	0.006	0.04	5.3	1.0	3.61	10700	0.32	0.02	2.0	6.3
555711		19.55	1.84	0.08	0.4	<0.005	0.008	0.12	7.0	2.5	2.73	9030	0.34	0.07	2.2	6.9
555712		11.90	1.92	0.06	0.5	0.007	0.013	0.08	11.3	6.6	2.95	2570	3.75	0.01	4.0	12.8
555713		16.60	1.34	0.05	0.2	0.011	0.010	<0.01	6.1	6.4	3.63	3330	1.98	<0.01	1.7	11.6
555714		21.4	0.52	0.09	0.1	0.006	<0.005	<0.01	8.6	2.4	6.06	5210	0.83	<0.01	0.9	4.9
555715		20.9	0.58	0.08	0.1	0.007	<0.005	<0.01	10.3	1.9	4.16	5250	1.96	<0.01	0.9	8.8
555716		18.00	0.32	0.06	<0.1	<0.005	<0.005	<0.01	5.0	1.2	3.31	4060	0.78	<0.01	0.6	5.9
555717		19.85	0.99	0.07	0.1	<0.005	0.006	0.01	4.9	1.2	2.78	5140	1.59	<0.01	1.4	2.6
555718		19.15	0.38	0.07	<0.1	0.005	<0.005	0.01	4.2	0.9	3.98	5160	0.84	<0.01	0.6	1.4
555719		7.57	18.70	0.13	3.5	0.022	0.063	0.90	22.1	12.3	3.03	978	1.75	1.75	19.4	142.5
555720		24.0	1.91	0.09	0.2	<0.005	0.009	0.02	6.7	2.0	3.38	6720	0.72	<0.01	2.0	6.5





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18233838**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555701		310	1.0	3.4	<0.002	0.10	0.29	0.7	1	<0.2	25.4	0.09	<0.05	0.53	0.024	<0.02
555702		380	0.8	4.1	<0.002	0.12	0.19	0.8	1	<0.2	23.7	0.09	<0.05	0.45	0.024	<0.02
555703		220	0.6	1.3	<0.002	0.05	0.13	0.3	1	<0.2	22.9	<0.05	<0.05	0.16	0.007	<0.02
555704		130	0.5	1.0	<0.002	0.01	<0.05	0.1	<1	<0.2	38.5	<0.05	<0.05	0.08	<0.005	<0.02
555705		150	0.5	1.4	<0.002	0.03	0.06	0.1	<1	<0.2	33.3	<0.05	<0.05	0.06	<0.005	<0.02
555706		60	<0.5	0.8	<0.002	<0.01	0.05	0.2	1	<0.2	85.6	<0.05	<0.05	0.06	0.005	<0.02
555707		100	0.6	1.5	<0.002	0.01	0.08	0.1	<1	<0.2	41.6	<0.05	<0.05	0.06	<0.005	<0.02
555708		130	0.6	1.2	<0.002	0.05	0.17	0.1	1	<0.2	26.2	0.05	<0.05	0.11	0.007	<0.02
555709		200	1.1	1.8	<0.002	0.23	0.23	0.2	1	<0.2	23.5	0.06	0.09	0.14	0.007	<0.02
555710		360	0.8	1.8	<0.002	0.13	0.34	0.9	1	<0.2	15.5	0.10	<0.05	0.35	0.028	<0.02
555711		510	1.3	3.9	<0.002	0.12	0.20	1.2	1	0.2	26.3	0.11	<0.05	0.62	0.035	0.05
555712		330	2.9	2.0	0.005	1.19	0.68	1.4	1	0.2	36.7	0.20	0.09	0.60	0.033	0.09
555713		380	1.7	0.1	<0.002	1.16	0.30	0.7	2	<0.2	35.3	0.07	0.08	0.24	0.011	<0.02
555714		690	1.4	<0.1	<0.002	0.11	0.47	0.3	1	<0.2	60.8	<0.05	<0.05	0.14	0.005	<0.02
555715		720	2.4	<0.1	<0.002	0.53	0.56	0.4	1	<0.2	42.7	<0.05	0.09	0.17	0.006	<0.02
555716		390	1.2	<0.1	<0.002	1.27	0.18	0.1	1	<0.2	29.8	<0.05	0.07	0.07	<0.005	<0.02
555717		320	0.7	0.2	<0.002	0.09	0.08	0.5	1	<0.2	25.4	0.07	<0.05	0.18	0.010	<0.02
555718		320	0.9	0.4	<0.002	0.04	0.07	0.1	1	<0.2	50.8	<0.05	<0.05	0.07	<0.005	<0.02
555719		1190	12.6	39.7	<0.002	0.02	0.94	19.5	1	1.6	363	1.11	0.05	4.64	0.951	0.18
555720		240	1.5	1.2	<0.002	0.33	0.14	0.9	1	<0.2	29.0	0.11	0.05	0.33	0.022	0.03



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 2-OCT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233838**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555701		0.4	20	0.2	7.5	6	9.1
555702		0.3	24	0.1	6.5	11	8.8
555703		0.1	9	0.2	4.5	10	3.5
555704		0.1	5	0.1	4.7	17	2.7
555705		0.1	7	0.1	4.4	18	2.6
555706		0.1	1	<0.1	2.0	3	1.2
555707		0.1	6	0.1	4.1	13	2.3
555708		0.1	6	0.1	3.6	18	3.0
555709		0.1	8	0.1	4.4	8	4.0
555710		0.3	26	0.1	5.8	7	9.9
555711		0.5	24	0.1	6.2	9	15.1
555712		2.0	74	0.3	6.1	23	26.3
555713		0.6	41	0.2	6.3	17	9.0
555714		0.3	13	0.1	8.0	16	4.2
555715		0.3	14	0.2	7.2	17	5.5
555716		0.1	7	0.1	4.5	10	2.4
555717		0.2	19	0.2	6.9	8	5.1
555718		0.1	8	0.1	5.5	9	2.2
555719		1.0	153	1.8	20.1	131	147.0
555720		0.5	37	0.3	7.3	11	8.5



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **2-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233838**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada			
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP21	Hg-MS42	ME-MS61	



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 30-SEPT-2018  
Compte: MINVIR

## CERTIFICAT VO18233839

Projet: Kan

Bon de commande #: KANDH18-RUSH-049

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 30-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233839**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
555721		2.59	<0.001	0.11	0.23	7.0	<10	0.78	0.01	1.79	<0.02	11.60	5.0	8	0.23	2.7
555722		2.53	<0.001	0.20	0.13	21.1	<10	0.96	0.02	1.51	<0.02	13.35	6.5	5	0.49	2.2
555723		2.11	<0.001	0.14	0.27	8.4	<10	1.20	0.02	2.56	<0.02	13.30	7.0	12	0.31	4.3
555724		2.55	<0.001	0.08	0.24	4.3	<10	0.95	0.02	3.58	<0.02	12.00	5.3	8	0.28	2.5
555725		2.38	<0.001	0.01	0.15	10.8	<10	0.46	0.01	2.81	<0.02	8.10	4.6	10	0.34	2.1
555726		0.28	<0.001	<0.01	0.06	<0.2	20	0.06	0.01	31.7	<0.02	0.87	0.6	1	<0.05	0.8
555727		2.22	<0.001	0.02	0.17	15.9	<10	0.61	0.02	3.46	<0.02	10.60	6.0	6	0.22	2.4
555728		3.29	0.052	0.04	0.15	13.9	<10	0.24	0.01	5.25	0.08	10.45	5.4	8	0.22	2.1
555729		1.56	0.060	0.01	0.26	0.3	10	0.31	<0.01	2.12	0.10	8.05	4.4	6	0.11	1.0
555730		2.35	0.021	0.04	0.31	1.2	10	0.33	0.01	3.81	0.08	11.90	5.0	19	0.15	3.4
555731		2.50	0.049	0.02	0.33	18.4	10	0.62	0.02	4.23	0.02	10.05	6.7	17	0.97	3.9
555732		2.41	<0.001	0.15	0.32	11.3	<10	0.52	0.02	3.91	<0.02	10.55	6.1	15	0.11	4.7
555733		2.47	0.001	0.03	0.91	43.6	<10	0.84	0.04	3.49	0.03	19.70	10.4	24	0.08	8.8
555734		2.10	<0.001	0.04	0.57	46.7	<10	0.60	0.02	1.91	0.03	12.15	8.0	24	<0.05	11.7
555735		2.29	<0.001	0.05	0.98	3.5	<10	1.06	0.04	1.79	0.03	19.30	9.9	28	0.07	9.6
555736		2.51	<0.001	0.06	0.39	2.3	<10	0.49	0.02	2.47	<0.02	11.75	6.7	16	<0.05	14.2
555737		2.28	<0.001	0.04	0.64	22.5	<10	0.71	0.03	1.95	<0.02	14.75	9.9	17	0.09	8.9
555738		2.56	<0.001	0.03	0.67	21.2	<10	0.87	0.02	1.88	<0.02	13.70	8.4	21	0.16	6.6
555739		0.07	2.54	0.47	7.06	12.2	340	1.16	0.19	4.91	0.07	45.4	56.9	318	0.71	86.3
555740		2.78	<0.001	0.03	0.61	10.1	10	1.17	0.03	1.66	<0.02	14.95	9.2	15	0.42	8.8



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 30-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233839**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
555721		24.2	1.49	0.07	0.1	<0.005	0.007	0.01	6.7	1.3	2.93	8010	0.39	<0.01	1.4	3.6
555722		24.9	0.85	0.08	0.1	<0.005	<0.005	0.02	8.4	0.7	2.95	11100	0.24	<0.01	1.7	3.3
555723		24.1	1.40	0.09	0.2	0.005	0.009	0.01	7.2	1.0	3.17	11450	0.36	<0.01	3.0	6.2
555724		23.3	1.16	0.08	0.1	<0.005	0.006	0.01	6.5	1.1	3.46	10900	0.36	<0.01	2.7	3.2
555725		19.80	0.72	0.07	0.1	0.007	0.005	0.01	4.7	0.8	2.96	8820	0.34	<0.01	2.0	3.2
555726		0.17	0.21	0.08	0.1	<0.005	<0.005	0.01	1.1	1.0	1.27	108	<0.05	0.03	0.1	<0.2
555727		21.6	0.76	0.07	0.1	0.008	0.007	0.01	5.7	0.9	3.28	9440	0.28	<0.01	2.3	2.8
555728		19.70	0.82	0.07	<0.1	0.011	0.005	0.01	6.3	1.3	3.63	7530	0.17	<0.01	0.8	2.3
555729		24.6	1.22	0.08	<0.1	0.007	<0.005	0.07	5.1	2.6	3.60	8260	0.18	<0.01	0.4	1.3
555730		18.60	1.50	0.07	0.2	0.013	0.007	0.03	6.1	1.9	3.02	8530	0.40	<0.01	3.3	4.7
555731		20.0	1.58	0.06	0.3	<0.005	0.008	0.03	5.1	1.2	3.51	10650	0.48	0.01	3.3	6.2
555732		17.25	1.52	0.07	0.2	<0.005	0.006	0.01	5.5	1.7	3.11	10100	0.39	<0.01	2.2	6.7
555733		21.2	4.21	0.09	0.6	<0.005	0.016	<0.01	10.9	4.6	3.37	13700	0.72	<0.01	5.6	15.8
555734		16.50	2.74	0.06	0.4	0.005	0.011	<0.01	6.2	2.8	2.12	11550	0.85	<0.01	4.0	12.0
555735		20.6	4.75	0.08	0.7	0.006	0.022	0.01	10.3	4.5	2.52	14750	0.69	<0.01	6.9	15.5
555736		18.40	2.12	0.06	0.3	<0.005	0.009	0.01	6.0	2.0	2.47	12400	0.24	<0.01	2.9	7.7
555737		23.4	3.41	0.09	0.5	<0.005	0.014	0.01	7.3	3.0	3.06	15600	0.34	<0.01	5.0	12.8
555738		21.3	3.38	0.08	0.5	<0.005	0.015	0.02	7.0	3.2	2.92	14050	0.26	<0.01	4.9	9.3
555739		7.70	18.70	0.12	3.5	0.057	0.063	1.02	23.1	9.4	5.78	1100	3.07	2.05	30.8	369
555740		21.5	3.15	0.08	0.5	0.005	0.014	0.06	8.0	3.1	3.04	14600	0.31	<0.01	4.5	10.1



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 30-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18233839**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555721		330	1.0	0.5	<0.002	0.13	0.12	0.6	<1	<0.2	17.2	0.07	<0.05	0.23	0.012	<0.02
555722		630	0.8	0.7	<0.002	0.04	0.14	0.4	<1	<0.2	13.2	0.06	0.05	0.25	0.012	<0.02
555723		350	1.1	0.7	<0.002	0.08	0.15	0.9	<1	<0.2	19.6	0.12	<0.05	0.51	0.029	<0.02
555724		370	1.1	0.5	<0.002	0.04	0.10	0.7	<1	<0.2	26.4	0.09	<0.05	0.44	0.023	<0.02
555725		270	1.2	0.3	<0.002	0.02	0.11	0.5	<1	<0.2	19.8	0.06	<0.05	0.37	0.014	<0.02
555726		60	<0.5	0.3	<0.002	<0.01	0.05	0.2	1	<0.2	81.7	<0.05	<0.05	0.08	<0.005	<0.02
555727		360	1.0	0.5	<0.002	0.09	0.10	0.4	1	<0.2	27.4	0.08	<0.05	0.31	0.014	<0.02
555728		400	1.2	0.3	<0.002	0.08	0.08	0.3	1	<0.2	60.7	<0.05	<0.05	0.21	0.006	<0.02
555729		110	0.7	1.6	<0.002	0.02	0.09	0.4	<1	<0.2	26.7	<0.05	<0.05	0.16	<0.005	0.03
555730		390	1.5	0.9	<0.002	0.12	0.11	0.9	<1	<0.2	56.8	0.14	0.05	0.60	0.035	0.02
555731		360	1.5	1.1	<0.002	0.09	0.14	1.0	1	<0.2	44.9	0.14	0.05	0.49	0.039	<0.02
555732		460	1.5	0.3	<0.002	0.12	0.17	1.0	<1	0.2	35.7	0.10	<0.05	0.41	0.034	<0.02
555733		720	2.7	0.1	<0.002	0.29	0.18	2.5	1	0.2	37.4	0.29	0.06	1.05	0.085	<0.02
555734		360	1.7	0.1	<0.002	0.21	0.16	1.8	1	0.2	16.7	0.23	<0.05	0.78	0.060	<0.02
555735		490	2.2	0.3	<0.002	0.22	0.23	3.0	1	0.3	14.5	0.41	0.05	1.35	0.115	<0.02
555736		320	1.5	0.2	<0.002	0.11	0.12	1.3	1	0.2	17.0	0.17	<0.05	0.50	0.051	<0.02
555737		420	1.6	0.3	<0.002	0.20	0.14	1.9	1	0.2	14.8	0.29	0.05	0.82	0.085	<0.02
555738		490	1.7	1.0	<0.002	0.15	0.15	2.1	1	0.2	15.2	0.30	0.06	0.82	0.087	<0.02
555739		1970	5.1	32.9	<0.002	0.03	0.36	23.4	<1	1.3	498	1.68	0.08	2.90	1.100	0.07
555740		500	1.6	3.0	<0.002	0.16	0.15	2.2	1	0.2	14.6	0.26	<0.05	0.74	0.083	0.04



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 30-SEPT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233839**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555721		0.3	25	0.5	10.7	8	5.3
555722		0.1	13	0.7	11.1	9	4.2
555723		0.2	22	0.7	11.0	10	9.1
555724		0.2	19	0.6	9.5	9	7.5
555725		0.1	13	0.2	6.3	7	4.9
555726		0.2	1	<0.1	2.1	2	2.2
555727		0.1	15	0.2	7.3	7	5.4
555728		0.1	14	0.4	6.7	15	3.0
555729		0.1	21	0.2	4.4	25	2.1
555730		0.4	23	0.5	6.7	14	10.7
555731		0.3	24	0.3	7.4	9	13.5
555732		0.3	21	0.3	6.2	9	10.1
555733		0.7	49	0.3	9.4	17	27.1
555734		0.6	36	0.3	6.0	15	19.7
555735		0.8	60	0.5	9.5	21	33.2
555736		0.3	29	0.3	6.9	10	13.1
555737		0.5	51	0.5	9.5	16	25.2
555738		0.4	53	0.5	9.0	13	23.9
555739		0.6	156	3.3	22.4	111	149.0
555740		0.5	47	0.4	8.1	11	19.5





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **30-SEPT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233839**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada			
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP21	Hg-MS42	ME-MS61	



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 2-OCT-2018  
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## CERTIFICAT VO18233841

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Bon de commande #: KANDH18-RUSH -050

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233841**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555741		2.96	<0.001	0.04	0.59	5.9	10	0.90	0.02	2.40	<0.02	13.35	7.9	15	1.88	6.4
555742		2.47	<0.001	0.03	1.08	8.5	10	1.30	0.04	1.44	0.02	20.7	11.0	27	2.87	11.2
555743		2.58	<0.001	0.01	0.40	0.8	20	0.47	0.02	2.78	<0.02	10.75	4.1	16	4.28	4.2
555744		2.31	<0.001	0.02	0.53	71.4	20	0.99	0.03	2.31	0.02	17.25	10.4	14	4.34	7.8
555745		2.46	0.001	0.02	0.65	1.5	40	1.45	0.02	2.22	0.03	17.25	9.0	15	9.12	8.1
555746		0.19	0.001	<0.01	0.05	0.3	10	0.06	0.01	33.9	<0.02	1.02	0.6	2	0.06	0.7
555747		2.50	0.001	0.03	1.38	0.5	50	1.44	0.04	1.73	0.05	22.4	12.0	29	11.25	10.1
555748		2.26	<0.001	0.03	0.52	0.7	50	0.94	0.02	2.22	0.17	9.99	6.3	18	8.22	3.8
555749		0.80	0.006	0.14	3.29	1.0	60	1.65	0.23	0.43	0.19	30.5	16.2	60	10.70	31.4
555750		1.57	<0.001	0.06	1.71	0.7	60	1.08	0.07	2.42	0.52	19.55	14.4	41	10.15	33.3
555751		2.52	0.067	0.04	0.51	3.9	40	0.48	0.02	3.71	0.15	12.90	5.4	20	0.41	11.4
555752		2.49	0.001	0.02	0.13	1.3	10	0.23	0.01	5.89	0.09	6.80	3.6	24	0.30	4.8
555753		2.00	<0.001	0.09	0.38	0.4	10	0.35	0.03	2.87	0.07	13.60	3.4	15	0.14	25.9
555754		5.13	0.076	0.73	2.41	22.9	110	1.05	0.44	0.85	1.53	39.6	50.7	45	1.97	157.5
555755		2.55	7.28	0.36	0.27	25.1	20	0.26	0.02	4.21	0.12	11.40	2.9	9	2.94	13.7
555756		2.24	0.225	0.09	0.24	0.7	10	0.27	0.01	9.17	0.17	9.26	2.4	10	0.77	14.5
555757		2.34	0.030	0.12	0.24	1.7	10	0.21	0.05	5.57	0.13	10.45	5.4	9	1.40	34.5
555758		2.57	0.023	0.08	0.30	2.4	10	0.30	0.03	2.52	0.07	14.65	4.0	10	1.39	28.1
555759		0.07	7.68	1.44	6.47	36.6	330	0.89	0.53	3.10	0.07	32.9	44.7	338	0.70	122.0
555760		2.43	0.005	0.07	0.53	5.3	10	0.31	0.04	3.77	0.08	32.0	3.1	11	1.08	28.4



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18233841**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555741		20.3	2.67	0.05	0.4	0.008	0.014	0.14	6.9	2.6	3.18	14250	0.27	0.01	4.2	8.0
555742		20.4	4.84	0.06	0.8	0.017	0.023	0.31	11.5	5.2	3.34	17450	0.62	0.01	7.1	16.6
555743		13.65	1.60	<0.05	0.3	0.014	0.014	0.14	5.5	1.1	2.22	9330	0.23	0.04	2.6	5.2
555744		22.2	2.31	0.05	0.4	0.051	0.012	0.16	8.8	1.6	3.44	16350	0.32	0.05	3.9	9.6
555745		22.5	3.01	0.06	0.6	0.070	0.014	0.31	8.7	1.7	3.67	16300	0.32	0.10	5.4	10.2
555746		0.25	0.18	0.07	<0.1	<0.005	<0.005	0.01	1.2	1.0	1.42	186	0.05	0.02	0.1	<0.2
555747		21.5	5.59	0.06	1.1	0.071	0.024	0.66	12.0	8.4	3.78	18150	0.58	0.11	9.3	19.5
555748		16.95	2.28	0.05	0.4	0.025	0.016	0.30	5.6	1.2	2.78	15700	0.57	0.10	3.2	8.3
555749		19.55	10.15	0.06	1.1	0.187	0.020	1.04	16.1	16.2	3.01	9570	3.60	0.07	9.1	40.9
555750		18.75	6.13	0.06	0.9	0.104	0.028	0.67	10.8	9.0	2.69	15600	1.47	0.09	6.6	29.8
555751		19.40	1.62	0.05	0.3	<0.005	0.015	0.19	6.6	3.9	3.46	10450	0.65	0.02	2.9	6.9
555752		17.35	0.56	0.05	0.1	<0.005	0.009	0.03	4.0	1.7	3.53	8080	0.30	<0.01	0.8	2.5
555753		16.35	2.46	0.10	0.3	0.016	0.013	0.15	7.8	3.8	2.95	5260	2.01	0.02	2.1	10.0
555754		18.15	9.45	0.12	1.8	0.201	0.122	1.22	21.3	18.5	1.21	1440	13.05	0.05	5.4	73.7
555755		16.70	1.85	0.06	0.1	0.044	0.007	0.13	6.3	1.9	3.69	4750	0.48	0.02	1.3	3.8
555756		14.75	1.07	0.05	0.1	0.009	0.008	0.04	5.3	2.4	4.50	4640	0.63	0.01	1.0	2.5
555757		16.95	1.66	0.06	0.1	0.005	0.007	0.05	6.0	1.5	3.44	4120	1.20	0.01	1.9	6.3
555758		20.6	2.25	0.07	0.4	0.006	0.010	0.05	8.4	1.6	2.73	4930	0.30	0.01	5.5	5.0
555759		5.89	16.25	0.11	2.5	0.178	0.050	1.12	16.6	16.4	4.24	784	6.21	1.26	18.6	265
555760		16.75	4.01	0.08	1.3	0.008	0.014	0.09	18.1	3.7	2.64	4440	0.55	<0.01	18.5	3.9



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18233841**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555741		470	1.6	5.9	<0.002	0.12	0.17	1.6	1	0.2	25.3	0.24	<0.05	0.74	0.078	0.05
555742		620	1.9	14.3	<0.002	0.22	0.21	3.3	1	0.4	21.3	0.42	0.06	1.24	0.139	0.12
555743		320	1.4	5.1	<0.002	0.08	0.12	1.3	1	<0.2	39.2	0.15	<0.05	0.43	0.046	<0.02
555744		770	1.5	5.9	<0.002	0.14	0.20	1.7	1	0.2	32.2	0.22	0.10	0.65	0.076	0.02
555745		510	1.8	11.6	<0.002	0.17	0.18	1.8	1	0.2	38.1	0.32	0.05	0.81	0.106	0.02
555746		70	<0.5	0.3	<0.002	<0.01	0.06	0.1	1	<0.2	82.7	<0.05	<0.05	0.05	0.005	<0.02
555747		710	2.4	28.7	<0.002	0.26	0.32	3.9	1	0.4	32.7	0.61	0.06	1.72	0.169	0.16
555748		410	1.4	11.0	<0.002	0.17	0.23	1.6	1	0.2	40.4	0.17	<0.05	0.56	0.060	0.02
555749		450	8.7	48.4	0.008	2.03	1.15	7.2	2	0.7	13.3	0.51	0.19	3.18	0.217	0.37
555750		590	5.8	31.2	<0.002	1.78	0.41	5.4	3	0.4	82.0	0.41	0.10	1.62	0.183	0.19
555751		430	1.7	5.4	<0.002	0.76	0.17	1.4	1	0.3	73.9	0.15	0.06	0.64	0.049	0.11
555752		250	1.6	1.3	<0.002	0.25	0.12	0.4	<1	<0.2	83.0	<0.05	<0.05	0.18	0.010	0.03
555753		210	2.6	4.0	0.003	1.26	0.22	1.0	1	0.3	41.9	0.10	0.07	0.45	0.015	0.10
555754		430	54.5	38.7	0.015	8.60	3.75	6.7	6	4.2	30.7	0.30	1.12	2.65	0.084	0.92
555755		150	1.3	5.4	<0.002	0.68	0.11	0.6	1	<0.2	71.2	0.06	0.06	0.18	0.009	0.08
555756		80	2.3	1.9	<0.002	0.57	0.11	0.5	1	<0.2	136.5	0.05	<0.05	0.15	0.007	0.03
555757		140	2.3	1.7	<0.002	1.80	0.11	0.5	1	<0.2	75.6	0.08	0.05	0.27	0.014	0.02
555758		230	2.5	2.2	<0.002	1.55	0.09	0.3	1	<0.2	39.2	0.36	0.07	0.65	0.009	0.03
555759		1160	9.9	40.8	<0.002	0.09	0.81	22.1	1	1.0	293	0.98	0.24	2.49	0.714	0.20
555760		360	9.9	4.1	<0.002	0.87	0.09	0.4	1	<0.2	47.2	1.18	0.06	1.79	0.017	0.06



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18233841**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555741		0.4	51	0.4	7.5	10	19.8
555742		0.9	102	0.4	7.6	16	35.5
555743		0.3	29	0.3	5.1	8	10.9
555744		0.5	42	0.5	8.9	10	17.5
555745		0.4	60	0.6	8.9	12	26.1
555746		0.1	2	<0.1	2.1	3	1.1
555747		1.0	121	0.4	8.7	22	44.0
555748		0.4	48	0.4	6.0	14	16.3
555749		4.4	155	0.3	6.6	62	46.5
555750		1.7	112	0.3	7.0	36	39.2
555751		0.5	31	0.2	5.8	35	14.6
555752		0.1	10	0.1	5.0	17	3.9
555753		0.9	37	0.2	4.8	24	13.7
555754		6.2	102	0.8	7.6	486	81.7
555755		0.3	20	0.1	6.0	21	5.1
555756		0.2	15	0.2	6.7	17	4.8
555757		0.4	23	0.2	5.1	17	7.7
555758		0.2	15	0.2	5.6	19	19.3
555759		0.6	153	9.3	16.2	91	106.0
555760		0.5	17	0.2	8.8	21	63.1



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **2-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233841**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada			
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP21	Hg-MS42	ME-MS61	



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**BUREAU 200**  
**QUEBEC QC G1K 7R1**

Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 30-SEPT-2018  
Compte: MINVIR

## CERTIFICAT VO18233842

Projet: Kan

Bon de commande #: KANDH18-RUSH-054

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 19-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
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 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233842**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555821		2.48	0.001	<0.01	0.86	12.4	30	0.67	0.03	1.42	0.02	15.95	6.6	26	3.67	5.4
555822		2.55	<0.001	0.02	0.73	18.6	40	0.49	0.02	2.86	0.05	17.95	8.0	22	5.51	7.3
555823		2.38	0.004	0.02	0.82	25.1	30	0.68	0.03	3.78	0.03	19.60	9.8	24	4.05	6.5
555824		2.35	0.001	0.03	0.58	4.9	60	0.70	0.02	2.18	<0.02	13.80	6.5	18	7.65	6.6
555825		2.37	<0.001	0.07	0.80	4.0	60	0.50	0.02	5.10	0.04	14.90	9.9	20	8.72	15.3
555826		0.28	<0.001	<0.01	0.06	<0.2	20	0.06	0.01	33.1	<0.02	1.10	0.6	2	0.05	1.0
555827		2.36	<0.001	0.01	0.54	0.4	60	0.51	0.01	4.79	0.02	10.55	6.0	15	8.14	6.9
555828		3.31	<0.001	0.03	1.53	1.1	100	0.61	0.03	4.02	0.02	15.30	9.3	34	6.05	19.4
555829		3.19	<0.001	0.05	0.32	11.6	<10	0.26	0.01	4.15	0.05	11.95	3.8	12	0.18	19.6
555830		2.31	<0.001	0.01	0.14	0.9	<10	0.48	<0.01	1.44	0.04	6.25	3.0	8	<0.05	1.5
555831		2.34	<0.001	0.02	0.28	4.6	<10	0.65	0.01	6.44	0.04	13.30	6.0	8	<0.05	2.4
555832		2.64	<0.001	0.02	0.57	4.0	10	0.67	0.02	4.42	<0.02	16.70	6.6	10	0.24	3.2
555833		2.41	<0.001	0.02	0.11	0.3	<10	0.40	0.01	2.41	<0.02	5.16	3.3	8	<0.05	1.4
555834		2.47	<0.001	0.02	0.25	1.7	<10	0.45	0.01	2.86	<0.02	12.15	6.1	9	0.13	2.3
555835		2.57	<0.001	0.03	0.30	2.8	<10	0.61	0.02	3.12	<0.02	15.30	6.2	10	0.13	2.7
555836		2.52	<0.001	0.07	0.40	2.4	<10	0.89	0.02	2.45	<0.02	23.8	6.2	10	<0.05	2.9
555837		2.34	0.004	0.02	0.36	2.7	10	0.37	0.01	6.61	0.11	15.75	5.8	8	0.43	2.5
555838		2.56	<0.001	0.02	0.19	1.7	10	0.48	<0.01	1.54	0.10	10.85	4.5	5	0.17	1.2
555839		0.07	0.679	0.19	7.71	19.5	350	1.25	0.12	4.58	0.17	48.8	42.1	188	1.85	53.5
555840		2.57	0.001	0.12	0.33	1.1	10	0.37	0.01	1.59	0.08	11.10	4.7	10	0.15	2.0



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Page: 2 – B  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18233842**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555821		18.45	3.51	0.09	0.6	0.026	0.012	0.11	8.1	1.5	2.79	13350	0.50	0.05	5.4	9.8
555822		20.1	3.19	0.08	0.6	0.029	0.013	0.17	9.7	1.3	3.42	12950	1.25	0.07	5.5	11.9
555823		18.00	3.35	0.09	0.7	0.043	0.019	0.11	10.6	1.6	3.13	12800	0.47	0.05	6.6	13.5
555824		19.40	2.79	0.08	0.4	0.053	0.018	0.22	7.0	1.0	2.97	13600	0.30	0.09	4.4	8.7
555825		19.10	3.88	0.08	0.5	0.033	0.042	0.26	7.8	1.6	4.59	8230	0.92	0.10	4.8	16.5
555826		0.23	0.24	0.15	<0.1	<0.005	<0.005	0.01	1.2	1.3	2.60	194	<0.05	0.03	0.1	0.2
555827		16.25	2.64	0.06	0.4	0.025	0.052	0.25	5.3	1.0	3.89	7840	0.30	0.10	3.4	6.1
555828		12.35	5.50	0.05	0.6	0.020	0.043	0.29	7.4	6.0	3.08	5970	1.36	0.08	4.3	17.2
555829		18.05	2.04	0.08	0.2	<0.005	0.011	0.03	6.6	2.0	3.19	6530	0.76	0.09	2.5	8.8
555830		22.3	0.86	0.07	0.1	<0.005	<0.005	0.01	3.6	1.7	3.79	7090	0.18	<0.01	1.2	2.5
555831		21.0	1.59	0.08	0.2	<0.005	0.008	<0.01	7.4	2.2	4.52	10300	0.43	<0.01	2.6	5.2
555832		21.0	2.13	0.09	0.3	<0.005	0.008	0.13	9.0	2.7	3.65	10350	0.36	<0.01	3.6	6.2
555833		19.45	0.60	0.07	<0.1	0.006	<0.005	<0.01	3.0	0.8	3.10	6700	0.17	<0.01	0.9	2.5
555834		24.3	1.10	0.09	0.2	<0.005	0.005	0.01	6.1	1.3	3.67	10200	0.40	<0.01	3.4	5.3
555835		26.8	1.33	0.12	0.2	<0.005	0.006	0.01	7.8	1.5	3.91	11600	0.44	<0.01	3.7	5.7
555836		26.7	1.64	0.12	0.2	<0.005	0.006	<0.01	14.2	1.6	3.75	11350	0.46	<0.01	3.9	5.9
555837		22.8	1.56	0.10	0.2	0.006	0.007	0.04	8.8	2.6	4.59	8870	0.44	<0.01	2.3	5.2
555838		30.7	1.00	0.12	0.1	<0.005	0.007	0.07	6.4	1.6	4.60	9640	0.19	<0.01	1.4	2.7
555839		7.66	18.25	0.13	3.6	0.024	0.063	0.92	21.9	13.0	3.06	993	2.18	1.77	19.7	145.0
555840		26.6	1.38	0.11	0.2	0.006	0.008	0.05	6.3	2.5	3.88	8700	0.23	<0.01	1.5	3.3



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18233842**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555821		370	1.2	3.5	<0.002	0.17	0.19	2.1	1	0.2	18.7	0.34	<0.05	1.09	0.077	<0.02
555822		550	1.7	5.4	<0.002	0.21	0.15	2.0	1	0.2	41.0	0.33	0.05	1.08	0.078	<0.02
555823		540	1.5	3.9	<0.002	0.20	0.17	2.4	1	0.2	45.3	0.39	<0.05	1.16	0.091	<0.02
555824		470	1.0	7.4	<0.002	0.15	0.16	1.8	1	0.3	31.1	0.25	0.05	0.67	0.084	0.02
555825		500	5.1	8.8	<0.002	0.22	0.57	2.5	1	0.4	86.1	0.28	<0.05	0.76	0.102	0.02
555826		60	0.6	0.3	<0.002	<0.01	<0.05	0.2	1	<0.2	78.4	<0.05	<0.05	0.07	0.005	<0.02
555827		350	1.4	8.1	<0.002	0.18	0.15	1.4	1	0.3	84.2	0.20	<0.05	0.50	0.067	0.02
555828		390	1.5	8.0	0.002	0.52	0.17	4.4	1	0.6	68.3	0.24	<0.05	1.15	0.120	0.03
555829		190	2.1	1.6	<0.002	1.14	0.31	0.8	1	<0.2	75.3	0.11	0.16	0.40	0.024	0.08
555830		150	0.5	0.4	<0.002	0.07	0.18	0.3	1	<0.2	26.3	0.05	<0.05	0.23	0.009	<0.02
555831		530	1.3	0.1	<0.002	0.09	0.22	0.8	1	<0.2	71.1	0.12	0.05	0.45	0.032	<0.02
555832		430	1.0	4.8	<0.002	0.07	0.23	1.0	1	<0.2	43.4	0.14	<0.05	0.96	0.035	0.05
555833		140	<0.5	0.1	<0.002	0.03	0.10	0.2	1	<0.2	25.2	<0.05	<0.05	0.15	0.007	<0.02
555834		360	1.0	0.4	<0.002	0.05	0.23	0.7	1	<0.2	30.1	0.12	<0.05	0.54	0.025	<0.02
555835		610	1.5	0.5	<0.002	0.04	0.19	0.8	1	<0.2	37.5	0.12	<0.05	0.63	0.027	<0.02
555836		1300	0.8	0.1	<0.002	0.08	0.20	0.9	1	<0.2	32.4	0.15	<0.05	0.71	0.037	<0.02
555837		620	2.0	2.1	<0.002	0.14	0.23	0.9	1	<0.2	148.0	0.11	<0.05	0.62	0.028	0.04
555838		330	0.6	2.9	<0.002	0.04	0.18	0.5	1	<0.2	37.5	0.06	<0.05	0.28	0.015	0.05
555839		1190	12.9	39.7	<0.002	0.02	0.94	19.7	1	1.6	369	1.14	0.05	4.61	0.954	0.16
555840		490	0.9	2.1	<0.002	0.07	0.15	1.0	1	<0.2	35.5	0.07	<0.05	0.39	0.021	0.03



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Page: 2 - D  
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Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233842**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555821		0.8	49	0.2	6.7	16	29.0
555822		0.8	45	0.4	6.5	22	27.5
555823		0.8	56	0.2	8.0	13	31.7
555824		0.5	49	0.3	6.4	12	21.4
555825		0.5	80	0.3	6.3	22	25.0
555826		0.1	1	0.1	2.0	4	1.6
555827		0.3	50	0.3	5.9	13	16.6
555828		1.0	89	0.3	5.3	15	25.0
555829		0.6	28	0.1	4.7	36	9.5
555830		0.1	13	0.2	3.4	19	4.4
555831		1.4	20	0.2	7.1	13	9.4
555832		0.4	21	0.3	6.4	9	11.2
555833		0.1	8	0.2	4.0	7	2.8
555834		0.2	18	0.2	6.4	8	8.1
555835		0.3	19	0.2	8.0	10	7.9
555836		0.5	25	0.2	8.9	10	10.4
555837		1.7	21	0.3	9.1	30	9.4
555838		0.2	15	0.4	4.9	29	5.6
555839		1.0	153	2.0	19.6	133	149.0
555840		1.2	20	0.7	5.6	17	7.7





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## CERTIFICAT VO18233843

Projet: Kan

Bon de commande #: KANDH18-RUSH-051

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

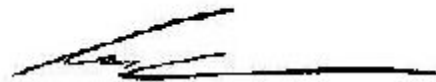
CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18233843**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555761		2.62	0.008	0.06	0.25	20.6	20	0.94	0.03	3.79	0.02	13.10	7.3	8	2.24	30.0
555762		2.59	<0.001	0.06	0.30	26.2	20	0.74	0.02	1.72	0.03	15.50	7.3	9	3.15	5.2
555763		2.56	<0.001	0.04	0.29	16.3	20	0.57	0.02	1.97	0.03	11.65	5.9	9	3.24	8.3
555764		2.48	<0.001	0.03	0.17	8.3	10	0.60	0.02	1.66	<0.02	10.00	4.9	10	1.55	4.6
555765		2.58	0.002	0.05	0.33	42.5	10	0.95	0.04	3.21	<0.02	14.00	7.6	11	2.10	6.3
555766		0.22	<0.001	<0.01	0.05	<0.2	20	0.05	<0.01	32.7	<0.02	0.94	0.6	1	<0.05	0.7
555767		2.58	<0.001	0.06	0.33	12.7	20	0.69	0.03	5.09	<0.02	11.95	6.2	9	2.71	3.5
555768		2.42	0.101	0.02	0.15	2.0	10	0.41	0.01	5.57	0.02	10.70	5.1	6	2.26	1.7
555769		2.53	0.017	0.06	0.21	12.1	20	0.40	0.02	4.47	0.02	9.64	6.0	11	3.30	2.5
555770		2.57	0.010	0.02	0.17	5.3	10	0.42	0.01	7.57	<0.02	10.95	5.1	7	2.45	1.8
555771		2.08	0.018	0.09	0.14	8.4	10	0.21	0.02	7.44	0.03	8.39	3.9	6	1.34	3.7
555772		2.62	<0.001	0.03	0.09	3.8	10	0.30	0.01	5.72	0.04	6.61	3.8	8	1.24	1.6
555773		2.28	1.970	0.31	0.10	2.0	10	0.20	0.03	2.10	0.07	11.30	4.3	13	0.75	28.8
555774		2.37	1.305	0.18	0.16	4.4	10	0.33	0.02	3.50	0.09	11.35	6.3	9	0.82	14.0
555775		2.78	0.041	0.02	0.23	6.2	20	0.55	0.01	2.37	0.03	12.65	6.1	8	1.76	3.6
555776		2.50	<0.001	0.06	0.15	6.0	10	0.59	0.01	2.91	<0.02	10.75	4.3	7	1.19	1.9
555777		2.59	0.043	0.03	0.24	6.2	20	0.49	0.01	3.02	0.08	10.40	5.1	7	1.82	2.8
555778		2.43	0.062	0.05	0.13	3.8	20	0.31	<0.01	1.77	0.05	5.13	3.3	12	2.60	1.9
555779		0.07	0.672	0.20	6.73	19.4	320	1.37	0.13	4.14	0.19	50.5	39.2	177	1.88	52.6
555780		2.53	1.475	0.06	0.15	47.1	20	0.39	0.02	1.40	0.05	7.47	5.1	8	2.89	15.2



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233843**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
555761		24.6	1.50	0.10	0.1	0.005	0.008	0.06	8.3	0.9	3.29	7000	0.47	0.02	3.1	6.7
555762		27.1	1.97	0.10	0.1	0.007	0.007	0.08	9.5	1.0	3.47	8240	0.49	0.03	2.0	5.1
555763		27.8	1.94	0.09	0.2	<0.005	0.008	0.08	7.2	1.1	3.83	7950	0.44	0.03	2.8	4.1
555764		21.0	1.29	0.07	0.1	0.005	0.006	0.04	5.9	0.7	2.82	6830	0.34	0.02	1.7	4.2
555765		22.2	2.24	0.08	0.2	0.009	0.008	0.05	8.1	2.2	2.99	7960	0.49	0.02	2.4	5.4
555766		0.26	0.18	0.05	<0.1	<0.005	<0.005	<0.01	1.1	0.9	1.22	135	<0.05	0.02	0.1	0.3
555767		20.8	1.80	0.08	0.2	0.007	0.008	0.07	6.5	0.9	3.65	7910	0.45	0.03	3.0	4.8
555768		19.70	0.89	0.07	0.1	0.014	0.005	0.05	5.8	0.7	3.69	8100	0.34	0.02	2.7	3.4
555769		18.35	1.08	0.07	0.1	0.008	0.007	0.08	5.3	0.7	3.30	7670	0.31	0.03	2.5	4.1
555770		17.90	0.89	0.08	0.1	0.012	0.006	0.06	6.1	0.8	4.09	7840	0.29	0.02	2.6	3.2
555771		14.45	0.64	0.06	0.1	<0.005	0.008	0.04	4.6	0.8	3.63	6300	0.23	0.02	1.7	2.6
555772		16.00	0.44	<0.05	0.1	<0.005	0.005	0.04	3.8	0.6	3.88	4670	0.14	0.02	1.2	2.1
555773		16.45	0.55	0.08	<0.1	0.049	0.005	0.04	7.1	1.2	2.98	2830	0.41	0.01	0.4	3.0
555774		19.80	0.74	0.07	<0.1	0.052	<0.005	0.06	6.8	2.7	3.86	4420	0.18	0.02	0.8	2.8
555775		24.9	0.84	0.06	0.1	0.005	0.006	0.11	7.7	3.6	3.63	10850	0.29	0.01	2.9	4.1
555776		21.9	0.58	0.07	0.1	<0.005	0.005	0.05	6.0	2.5	3.37	9180	0.33	0.01	2.2	2.6
555777		25.9	0.91	0.07	0.2	0.010	0.006	0.11	5.8	3.3	4.02	9300	0.40	0.01	2.6	3.3
555778		19.50	0.52	0.05	0.1	0.008	<0.005	0.07	2.9	0.6	3.14	5590	0.14	0.03	1.2	2.3
555779		6.91	17.45	0.08	3.6	0.021	0.065	0.83	22.8	13.2	2.76	899	2.20	1.61	19.1	132.5
555780		22.3	0.66	0.06	0.1	0.015	<0.005	0.08	4.6	0.5	3.00	9050	0.17	0.03	1.2	2.8





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18233843**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555761		340	1.9	2.0	<0.002	0.72	0.14	0.8	1	<0.2	40.9	0.09	0.06	0.31	0.017	<0.02
555762		500	1.2	2.8	<0.002	0.30	0.13	0.7	<1	<0.2	22.8	0.09	0.07	0.37	0.018	<0.02
555763		220	1.4	2.8	<0.002	0.42	0.10	0.7	1	<0.2	23.1	0.11	0.05	0.42	0.022	<0.02
555764		310	1.2	1.4	<0.002	0.33	0.10	0.5	1	<0.2	19.3	0.07	<0.05	0.28	0.016	<0.02
555765		340	2.2	1.8	0.002	0.35	0.15	1.1	1	<0.2	31.6	0.11	<0.05	0.40	0.028	<0.02
555766		60	0.5	0.1	<0.002	<0.01	0.05	0.2	1	<0.2	81.5	<0.05	<0.05	0.06	<0.005	<0.02
555767		260	1.7	2.2	<0.002	0.20	0.15	0.9	1	<0.2	42.1	0.11	<0.05	0.51	0.026	<0.02
555768		280	1.2	1.8	<0.002	0.06	0.09	0.5	1	<0.2	51.0	0.09	<0.05	0.41	0.015	<0.02
555769		240	1.3	2.7	<0.002	0.07	0.11	0.5	<1	<0.2	38.1	0.08	<0.05	0.44	0.018	<0.02
555770		280	1.6	2.1	<0.002	0.04	0.09	0.5	1	<0.2	60.4	0.09	<0.05	0.41	0.020	<0.02
555771		300	1.7	1.3	<0.002	0.09	0.25	0.3	<1	<0.2	56.5	0.06	<0.05	0.41	0.012	<0.02
555772		130	1.1	1.2	<0.002	0.05	0.27	0.2	<1	<0.2	48.8	<0.05	<0.05	0.18	0.009	<0.02
555773		100	4.9	1.7	<0.002	0.67	0.24	0.1	1	<0.2	25.7	<0.05	0.11	0.05	<0.005	0.03
555774		130	2.0	2.4	<0.002	0.50	0.12	0.2	1	<0.2	40.3	<0.05	0.09	0.12	0.005	0.04
555775		460	1.3	4.3	<0.002	0.10	0.16	0.5	1	<0.2	25.0	0.10	0.05	0.49	0.022	0.05
555776		420	3.7	2.1	<0.002	0.05	0.12	0.4	<1	<0.2	25.9	0.08	<0.05	0.38	0.016	0.03
555777		280	3.9	4.6	<0.002	0.07	0.10	0.6	1	0.2	39.6	0.09	<0.05	0.41	0.025	0.07
555778		130	1.1	2.2	<0.002	0.08	0.11	0.2	1	<0.2	27.3	0.05	<0.05	0.16	0.009	<0.02
555779		1110	13.4	36.0	<0.002	0.02	0.99	18.8	1	1.7	333	1.07	0.05	4.89	0.876	0.18
555780		220	1.0	2.4	<0.002	0.39	0.12	0.3	1	0.2	21.9	0.05	0.11	0.19	0.011	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 2-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18233843**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555761		0.4	28	0.3	9.2	10	8.7
555762		0.3	34	0.4	8.3	10	7.8
555763		0.3	37	0.3	6.7	13	9.3
555764		0.4	22	0.2	6.4	7	7.0
555765		0.6	33	0.3	8.9	7	12.0
555766		0.1	2	<0.1	2.1	2	1.3
555767		0.4	28	0.3	7.2	8	9.6
555768		0.1	13	0.2	5.9	8	5.3
555769		0.1	16	0.2	4.9	8	6.5
555770		0.1	14	0.2	6.4	7	6.5
555771		0.1	10	0.3	5.2	8	3.9
555772		0.1	8	0.4	4.1	8	3.1
555773		<0.1	10	0.5	3.2	16	3.6
555774		0.1	12	0.3	4.2	19	4.1
555775		0.1	16	0.5	5.6	10	6.2
555776		0.1	11	0.4	5.8	7	5.4
555777		0.2	16	0.5	5.6	14	7.4
555778		0.1	10	0.4	3.7	10	4.1
555779		1.1	140	2.1	19.7	126	140.5
555780		0.1	10	0.2	3.7	9	3.8



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**Page: Annexe 1**  
**Total # les pages d'annexe: 1**  
**Finalisée date: 2-OCT-2018**  
**Compte: MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233843**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	<p>L'analyse des terres rares peut être partiellement soluble avec cette méthode.  <b>ME-MS61</b></p>								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	<p>Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	<p>Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 2-OCT-2018  
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## CERTIFICAT VO18233845

Projet: Kan

Bon de commande #: KANDH18-RUSH-052

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18233845**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555781		2.50	0.158	0.01	0.13	18.3	10	0.25	0.02	4.38	0.11	9.62	4.9	8	2.43	21.4
555782		2.60	0.215	0.13	0.27	0.8	10	0.27	0.02	4.79	0.12	7.10	4.1	6	1.57	41.4
555783		2.36	0.198	0.17	1.05	1.6	20	0.31	0.06	5.33	0.21	15.55	9.9	23	3.43	112.5
555784		2.48	0.691	0.45	0.48	6.9	20	0.29	0.03	0.64	0.50	14.45	6.2	15	2.11	42.8
555785		2.77	0.004	0.01	1.40	35.9	30	0.65	0.04	0.41	0.41	26.7	13.7	41	4.05	9.8
555786		0.21	<0.001	<0.01	0.05	0.4	20	<0.05	0.01	34.8	0.02	0.90	0.7	1	<0.05	0.9
555787		2.52	0.087	0.02	1.29	53.3	10	0.48	0.03	0.63	0.28	23.7	9.7	33	1.84	13.4
555788		2.39	0.042	0.02	0.32	18.9	10	0.23	0.02	1.95	0.11	7.83	4.2	12	1.33	10.7
555789		2.46	0.544	0.05	0.72	12.6	20	0.35	0.04	7.77	0.22	19.75	6.9	18	3.00	11.4
555790		2.33	0.038	0.02	0.40	2.0	30	0.23	0.03	7.47	0.25	13.10	5.6	15	3.51	30.3
555791		1.16	1.155	0.10	0.78	9.1	50	0.37	0.03	4.76	0.23	18.70	6.4	20	7.33	18.6
555792		1.30	0.029	0.01	0.35	3.6	30	0.61	0.01	1.33	0.04	11.45	5.2	9	4.31	7.5
555793		2.50	0.003	0.02	0.36	6.7	10	0.64	0.01	2.05	0.02	10.55	6.4	12	1.23	3.6
555794		2.31	<0.001	0.01	0.32	4.9	30	0.72	0.01	4.82	<0.02	10.20	4.7	11	3.54	2.5
555795		2.42	1.135	0.08	0.67	31.5	30	0.65	0.03	2.61	0.05	16.30	9.1	19	4.79	8.4
555796		2.40	0.103	0.95	0.60	20.3	30	0.63	0.03	1.66	0.03	15.65	7.8	19	4.36	9.1
555797		2.51	0.067	0.02	0.27	11.3	20	0.62	0.01	1.49	<0.02	10.80	6.1	10	3.03	2.6
555798		2.40	0.396	0.18	0.45	12.1	30	0.55	0.02	5.37	<0.02	12.05	6.4	13	3.75	7.1
555799		0.07	2.53	0.42	7.23	11.5	340	1.13	0.17	5.00	0.07	42.9	52.5	320	0.66	81.9
555800		2.41	0.001	0.03	0.38	4.8	20	0.65	0.02	3.05	<0.02	16.35	6.2	14	3.25	3.4



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233845**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
555781		23.2	0.76	0.10	0.1	<0.005	0.009	0.07	5.9	0.6	4.21	9290	0.16	0.03	1.4	2.3
555782		19.90	1.36	0.08	<0.1	0.023	0.009	0.05	4.3	0.8	3.81	6310	0.11	0.02	0.6	3.4
555783		19.60	4.68	0.10	0.5	0.019	0.025	0.10	7.8	1.7	3.21	9450	0.95	0.04	4.5	12.1
555784		25.6	2.75	0.13	0.6	0.035	0.046	0.06	7.7	1.1	2.47	32600	0.78	0.03	3.9	8.6
555785		30.1	7.93	0.17	1.2	0.029	0.034	0.13	14.8	2.8	3.05	30700	1.77	0.05	10.0	26.5
555786		0.25	0.20	0.10	<0.1	<0.005	<0.005	0.01	1.1	0.9	1.45	225	0.05	0.02	0.1	0.3
555787		25.2	4.84	0.12	1.0	0.021	0.030	0.07	13.0	2.3	2.74	25100	1.39	0.02	7.7	16.8
555788		17.20	1.28	0.08	0.4	0.010	0.014	0.06	4.1	0.8	2.28	15850	0.79	0.02	3.2	4.9
555789		18.15	2.66	0.10	0.9	0.070	0.023	0.10	10.2	1.8	4.18	15200	0.97	0.04	6.8	8.9
555790		14.75	1.46	0.08	0.2	0.015	0.022	0.11	6.5	1.1	3.46	10350	0.93	0.04	2.0	6.5
555791		21.6	3.19	0.12	0.5	0.059	0.025	0.22	10.5	1.5	3.86	12600	1.24	0.09	4.2	8.8
555792		21.9	1.87	0.10	0.3	0.017	0.011	0.12	5.8	0.8	2.87	14000	0.45	0.05	2.8	6.0
555793		20.7	1.77	0.10	0.3	0.008	0.008	0.04	5.4	0.9	3.24	12400	0.29	0.02	3.0	6.9
555794		19.30	1.55	0.10	0.3	<0.005	0.008	0.10	5.2	0.8	3.51	11850	0.21	0.04	2.6	4.5
555795		23.8	3.04	0.12	0.6	0.017	0.026	0.16	8.5	1.9	3.60	14250	0.35	0.05	5.3	10.5
555796		24.0	2.64	0.12	0.4	0.014	0.031	0.13	8.5	1.3	3.39	14000	0.71	0.05	3.8	7.7
555797		23.2	1.35	0.13	0.2	0.010	0.005	0.09	5.7	0.6	3.42	10700	0.39	0.04	2.3	5.7
555798		20.5	2.19	0.10	0.2	0.035	0.008	0.11	5.8	1.3	3.85	9260	0.25	0.04	3.2	5.7
555799		7.86	18.05	0.19	3.4	0.046	0.064	1.02	21.7	9.0	5.86	1120	3.08	2.07	27.9	368
555800		22.3	2.06	0.13	0.2	0.005	0.008	0.09	8.1	1.0	3.43	10650	0.29	0.04	3.4	5.9



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233845**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555781		350	1.5	2.1	<0.002	0.48	0.16	0.4	1	0.2	65.9	0.05	0.06	0.23	0.012	<0.02
555782		80	2.2	1.5	<0.002	1.30	0.11	0.3	2	0.2	72.6	<0.05	0.08	0.08	<0.005	<0.02
555783		390	4.1	3.4	<0.002	3.12	0.21	2.0	6	0.7	113.0	0.24	0.17	0.90	0.082	0.02
555784		350	2.6	2.1	<0.002	0.62	0.15	1.2	1	1.0	8.3	0.27	0.05	0.89	0.046	<0.02
555785		640	1.4	4.2	<0.002	0.22	0.27	4.1	1	1.4	4.9	0.53	0.10	1.80	0.171	0.02
555786		40	0.9	0.1	<0.002	<0.01	<0.05	0.2	1	<0.2	84.8	<0.05	<0.05	0.06	<0.005	<0.02
555787		710	1.3	2.5	0.002	0.46	0.15	3.3	1	1.0	9.2	0.47	0.11	1.59	0.141	0.02
555788		360	1.0	2.1	<0.002	0.25	0.11	0.9	1	0.4	24.3	0.19	<0.05	0.58	0.039	<0.02
555789		520	5.8	3.3	<0.002	0.45	0.20	1.8	1	0.9	120.0	0.49	<0.05	1.41	0.081	0.02
555790		850	3.4	3.5	<0.002	0.92	0.15	1.1	2	0.6	118.0	0.13	0.07	0.52	0.033	<0.02
555791		540	7.8	7.0	<0.002	0.57	0.28	2.0	1	0.9	69.6	0.23	0.06	0.86	0.073	0.02
555792		370	0.9	3.9	<0.002	0.16	0.14	1.1	1	0.5	19.0	0.17	0.05	0.45	0.048	<0.02
555793		350	0.9	1.1	<0.002	0.08	0.08	1.0	1	<0.2	22.4	0.19	0.05	0.48	0.053	<0.02
555794		310	1.6	3.1	<0.002	0.08	0.10	1.0	1	0.2	59.2	0.16	<0.05	0.42	0.044	<0.02
555795		480	2.8	5.6	<0.002	0.39	0.19	2.0	1	0.4	39.5	0.32	0.12	0.86	0.094	0.03
555796		520	1.3	4.3	<0.002	0.33	0.12	1.5	1	0.2	25.0	0.19	0.07	0.67	0.061	0.02
555797		340	0.7	2.6	<0.002	0.10	0.06	0.7	1	<0.2	18.9	0.09	<0.05	0.39	0.029	<0.02
555798		190	1.8	3.4	<0.002	0.23	0.08	1.1	1	<0.2	51.7	0.13	0.06	0.68	0.033	<0.02
555799		1950	4.5	30.2	<0.002	0.04	0.32	21.0	1	1.3	505	1.53	0.08	2.58	1.115	0.06
555800		640	1.0	2.9	<0.002	0.10	0.08	1.1	1	<0.2	30.5	0.13	<0.05	0.63	0.033	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 2-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18233845**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
555781		0.1	12	0.2	5.2	14	4.3
555782		0.1	14	0.4	4.2	18	3.5
555783		0.5	46	0.3	6.3	43	23.6
555784		0.5	27	0.2	5.3	103	26.4
555785		1.3	87	0.3	9.2	183	51.2
555786		0.1	1	<0.1	1.8	4	1.2
555787		1.0	77	0.2	6.8	141	44.4
555788		0.4	21	0.2	3.8	32	15.9
555789		0.8	47	0.3	7.7	44	40.8
555790		1.0	23	0.2	6.8	41	9.9
555791		0.7	42	0.2	6.5	64	24.0
555792		0.2	29	0.2	5.2	16	14.1
555793		0.2	29	0.2	5.2	10	14.7
555794		0.2	25	0.2	5.6	9	12.0
555795		0.5	45	0.3	7.4	17	27.2
555796		0.5	36	0.5	6.6	15	17.4
555797		0.2	18	0.2	5.0	8	9.0
555798		0.4	26	0.4	5.8	10	9.7
555799		0.6	156	3.2	21.0	109	149.0
555800		0.4	24	0.3	7.1	9	9.8

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **2-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233845**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 13-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18233846

Projet: Kan

Bon de commande #: KANDH18-124

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 19-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233846**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558511		4.96	<0.001	0.02	6.51	<0.2	30	0.22	0.02	6.47	0.06	6.19	66.5	315	0.20	85.7
558512		4.89	<0.001	0.04	7.02	1.3	30	0.25	0.02	6.82	0.08	6.10	59.6	261	0.24	124.0
558513		4.74	<0.001	0.02	6.74	0.8	30	0.25	0.02	6.73	0.06	6.18	63.2	292	0.27	79.9
558514		4.89	<0.001	0.02	6.57	0.2	10	0.27	0.02	6.75	0.04	6.35	60.0	303	0.30	50.1
558515		4.83	<0.001	0.04	7.13	<0.2	10	0.29	0.03	6.70	0.07	8.36	47.0	286	0.42	102.0
558516		0.18	<0.001	0.01	0.14	<0.2	20	<0.05	0.02	33.9	<0.02	1.06	1.2	7	<0.05	2.1
558517		4.95	<0.001	0.04	6.80	0.3	70	0.37	0.03	6.25	0.07	15.95	57.7	44	2.85	309
558518		4.89	<0.001	0.04	7.86	<0.2	10	0.34	0.04	7.08	0.05	8.29	52.6	237	0.25	55.6
558519		4.72	<0.001	0.03	7.17	0.2	10	0.29	0.04	6.99	0.12	7.38	52.0	195	0.55	138.0
558520		4.57	<0.001	0.03	6.77	0.5	40	0.31	0.04	6.09	0.06	5.15	63.8	271	0.50	92.6
558521		5.03	<0.001	0.04	7.75	0.6	100	0.28	0.05	6.68	0.12	5.39	49.5	261	0.60	164.0
558522		4.85	<0.001	0.03	7.13	0.2	170	0.39	0.04	4.83	0.08	7.81	53.2	246	1.30	125.5
558523		2.26	<0.001	0.03	7.13	<0.2	240	0.70	0.04	5.89	0.06	27.7	37.8	142	3.91	74.7
558524		4.42	<0.001	0.01	7.93	<0.2	830	1.72	0.02	0.54	<0.02	81.3	11.4	64	12.15	1.0
558525		2.83	<0.001	0.01	8.15	<0.2	800	2.02	0.02	0.73	<0.02	85.6	10.1	65	8.39	1.5
558526		6.45	<0.001	0.03	7.14	0.2	130	0.51	0.03	6.67	0.12	11.50	50.3	118	4.05	146.5
558527		4.76	<0.001	0.05	7.39	0.8	80	0.40	0.03	6.57	0.12	8.83	53.7	123	2.04	195.5
558528		4.62	<0.001	0.04	7.56	10.5	80	0.47	0.03	6.19	0.11	9.40	53.0	115	2.21	185.0
558529		0.07	7.70	1.38	6.26	35.2	320	1.08	0.51	3.05	0.09	31.7	42.4	326	0.70	117.0
558530		2.31	<0.001	0.01	8.16	<0.2	920	1.87	0.02	1.47	<0.02	86.9	15.4	71	6.88	7.2



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558511		7.90	14.40	0.06	0.7	0.011	0.050	0.14	2.3	24.3	6.32	1180	0.26	1.15	2.1	352
558512		7.30	15.40	0.06	0.7	0.014	0.046	0.16	2.2	21.4	5.64	1080	0.39	1.41	2.3	310
558513		7.79	14.20	0.07	0.7	0.018	0.050	0.15	2.3	23.3	6.28	1200	0.19	1.29	2.2	338
558514		7.86	14.60	0.07	0.7	0.007	0.053	0.11	2.3	21.8	5.82	1270	0.23	1.38	2.2	296
558515		7.89	17.25	0.07	0.7	0.020	0.064	0.13	2.9	17.2	4.51	1260	0.32	1.89	2.7	137.0
558516		0.27	0.34	<0.05	<0.1	<0.005	<0.005	0.01	1.2	1.2	1.24	107	0.09	0.04	0.1	1.7
558517		11.65	18.55	0.07	1.1	0.010	0.109	0.57	5.8	18.6	3.65	1580	0.43	1.34	5.4	60.6
558518		8.56	16.80	0.07	0.8	0.005	0.059	0.04	3.3	20.2	4.76	1380	0.72	1.90	2.6	160.5
558519		8.35	15.30	0.06	0.6	0.008	0.067	0.11	2.7	20.2	4.83	1380	0.35	1.96	2.6	172.0
558520		8.13	12.60	0.07	0.4	0.007	0.041	0.20	1.9	32.0	6.62	1360	0.18	1.48	1.7	320
558521		7.45	16.35	0.06	0.5	<0.005	0.052	0.45	2.1	28.9	5.16	1160	0.21	1.70	2.0	215
558522		8.67	15.95	0.09	0.5	<0.005	0.066	0.89	3.0	40.5	6.43	1220	0.24	1.39	2.8	188.0
558523		8.35	17.45	0.09	1.3	0.006	0.061	1.68	13.7	51.4	4.38	1320	0.31	0.65	4.6	63.9
558524		3.85	18.15	0.14	2.9	<0.005	0.006	3.71	42.3	41.2	2.09	356	0.16	2.18	10.2	34.3
558525		3.11	18.65	0.16	2.8	<0.005	0.005	3.40	45.3	38.4	2.06	374	0.15	2.71	10.7	33.8
558526		9.29	16.65	0.09	0.6	0.009	0.076	1.22	4.5	39.7	4.58	1410	0.32	1.00	3.3	120.0
558527		9.59	17.25	0.07	0.6	0.006	0.080	0.69	3.2	31.2	5.02	1410	0.35	1.49	3.2	142.0
558528		8.93	17.60	0.07	0.7	0.005	0.078	0.70	3.4	37.4	4.94	1380	0.29	1.63	3.3	135.0
558529		5.65	15.55	0.08	2.4	0.162	0.049	1.08	16.5	16.8	4.10	771	6.08	1.22	17.7	257
558530		5.40	23.5	0.15	2.7	<0.005	0.023	3.31	44.6	46.7	2.27	639	0.26	1.34	10.3	37.1



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233846**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558511		240	1.5	3.0	<0.002	0.07	0.30	15.0	1	0.4	118.0	0.13	<0.05	0.19	0.401	0.03
558512		250	1.5	3.4	0.002	0.03	0.33	17.0	<1	0.5	136.0	0.15	<0.05	0.16	0.421	0.04
558513		260	1.4	3.1	<0.002	0.01	0.29	16.0	<1	0.4	121.0	0.13	<0.05	0.16	0.425	0.03
558514		240	1.4	2.4	0.002	0.01	0.33	19.0	1	0.5	124.5	0.13	<0.05	0.17	0.428	0.04
558515		310	1.5	3.2	0.002	0.01	0.27	28.0	<1	0.9	138.0	0.16	<0.05	0.20	0.545	0.03
558516		50	0.6	0.2	<0.002	<0.01	<0.05	0.6	1	<0.2	82.7	<0.05	<0.05	0.08	0.010	<0.02
558517		610	1.5	22.1	0.003	0.67	0.21	50.7	3	1.0	85.2	0.33	<0.05	0.45	1.230	0.13
558518		320	3.6	0.8	0.002	0.01	0.62	34.5	1	0.6	136.0	0.16	<0.05	0.45	0.554	<0.02
558519		300	1.3	2.7	0.002	0.02	0.29	35.4	1	0.6	104.5	0.16	<0.05	0.21	0.596	0.02
558520		210	1.1	3.9	<0.002	0.01	0.40	23.5	1	0.4	102.0	0.10	<0.05	0.13	0.395	0.02
558521		240	1.6	6.1	0.002	0.02	0.45	26.6	1	0.5	166.0	0.13	<0.05	0.14	0.452	0.03
558522		350	0.9	16.0	0.002	0.02	0.36	34.3	1	0.5	66.7	0.17	<0.05	0.22	0.583	0.06
558523		440	1.7	41.5	0.002	0.02	0.26	34.3	<1	0.6	70.5	0.31	<0.05	2.85	0.667	0.20
558524		400	2.3	69.8	<0.002	<0.01	0.14	10.8	<1	0.3	16.2	0.69	<0.05	13.45	0.353	0.25
558525		350	2.3	58.1	<0.002	<0.01	0.14	11.4	<1	0.3	17.0	0.71	<0.05	13.75	0.365	0.20
558526		380	2.2	29.5	0.003	0.07	0.66	40.6	1	0.5	128.5	0.20	<0.05	0.51	0.666	0.13
558527		390	2.3	13.5	0.002	0.08	1.05	40.7	1	0.6	160.5	0.18	<0.05	0.25	0.676	0.07
558528		390	2.1	16.6	0.003	0.11	1.36	41.1	1	0.6	152.0	0.19	<0.05	0.26	0.705	0.09
558529		1160	9.8	39.2	<0.002	0.08	0.77	19.0	1	1.0	287	0.93	0.22	2.38	0.707	0.20
558530		370	2.7	49.7	<0.002	<0.01	0.12	11.7	1	0.6	31.6	0.71	<0.05	11.80	0.386	0.22



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 13-OCT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233846**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
558511		0.1	204	0.1	13.3	73	23.8
558512		0.1	210	0.1	14.2	64	25.5
558513		0.1	209	0.1	13.9	70	26.4
558514		0.1	225	0.1	14.5	74	23.0
558515		0.1	284	0.1	18.4	76	21.2
558516		0.3	4	0.1	2.2	4	1.4
558517		0.1	587	0.2	33.6	103	37.9
558518		0.1	280	0.1	17.1	87	29.2
558519		0.1	298	0.1	18.4	83	16.7
558520		<0.1	202	0.1	12.1	81	13.4
558521		0.1	237	0.1	13.5	66	15.7
558522		0.1	294	0.1	18.3	80	15.9
558523		0.5	301	0.2	26.2	74	55.7
558524		2.4	71	0.6	17.8	12	110.0
558525		2.2	71	0.6	18.0	13	108.5
558526		0.1	340	0.2	23.6	98	17.6
558527		0.1	349	0.1	22.7	103	16.8
558528		0.1	355	0.1	24.3	94	23.0
558529		0.6	148	9.0	15.4	87	103.0
558530		2.1	84	0.5	18.9	26	106.5



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **13-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233846**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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**QUEBEC QC G1K 7R1**

Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 30-SEPT-2018  
Compte: MINVIR

## CERTIFICAT VO18233848

Projet: Kan

Bon de commande #: KANDH18-RUSH-053

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 30-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233848**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555801		2.46	0.089	0.03	0.35	7.7	30	0.51	0.02	2.74	0.03	11.95	5.7	13	3.84	10.2
555802		2.49	<0.001	0.01	0.28	13.7	20	0.66	0.02	1.52	<0.02	10.75	5.4	11	2.19	4.4
555803		2.37	0.042	0.01	0.32	12.6	10	0.73	0.02	2.74	<0.02	10.25	6.0	14	1.65	5.7
555804		2.41	0.009	0.01	0.30	8.2	10	0.64	0.01	2.76	<0.02	13.10	5.4	17	1.59	3.8
555805		2.45	<0.001	0.01	0.23	4.3	10	0.45	0.01	3.98	<0.02	12.10	4.9	12	1.84	2.2
555806		0.47	0.002	<0.01	0.06	0.6	10	0.08	0.01	32.7	0.02	1.29	0.6	1	<0.05	0.9
555807		2.73	<0.001	0.02	0.68	8.1	40	0.49	0.03	3.43	0.03	25.8	9.9	27	7.19	3.7
555808		2.60	0.001	0.01	0.31	6.9	30	0.60	0.02	3.95	0.02	19.75	6.0	14	5.05	9.2
555809		2.65	0.115	0.02	0.21	5.0	20	0.58	0.01	1.99	0.02	12.75	5.2	11	3.76	4.6
555810		2.62	0.093	0.01	0.11	6.0	10	0.46	0.01	1.34	0.03	7.88	3.4	5	1.20	8.4
555811		2.85	0.122	0.03	0.16	7.2	20	0.33	0.02	2.99	0.07	13.25	4.8	7	2.80	12.9
555812		2.57	<0.001	0.01	0.31	6.1	30	0.63	0.01	3.47	0.02	15.70	6.4	14	5.35	3.1
555813		2.66	<0.001	0.01	0.41	3.3	40	0.65	0.02	1.95	<0.02	11.75	6.4	15	6.72	3.9
555814		2.40	<0.001	0.02	0.41	4.1	30	0.72	0.01	3.41	<0.02	11.15	5.4	18	4.78	5.3
555815		2.44	<0.001	0.01	0.45	5.9	40	0.94	0.01	2.49	0.02	18.85	7.3	19	6.09	6.3
555816		2.54	0.101	0.02	0.24	2.5	20	0.44	0.03	2.60	0.04	11.70	4.1	16	3.59	11.7
555817		2.46	0.001	0.01	0.39	3.0	20	0.56	0.01	2.10	<0.02	12.10	6.1	15	3.41	3.6
555818		2.46	0.011	0.01	0.27	3.4	10	0.71	0.01	7.60	<0.02	8.28	4.2	12	1.71	2.4
555819		0.07	7.82	1.30	5.99	33.6	310	0.90	0.49	2.86	0.09	30.7	39.6	298	0.64	113.0
555820		2.45	0.016	0.03	0.50	11.2	10	0.80	0.02	3.40	<0.02	12.90	6.0	17	2.15	4.9



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 30-SEPT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233848**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555801		21.1	1.72	0.06	0.2	<0.005	0.009	0.12	6.5	0.9	3.13	10000	0.25	0.04	3.5	6.3
555802		21.7	1.16	0.06	0.2	0.006	0.006	0.08	6.5	1.0	3.27	11150	0.21	0.02	2.3	5.7
555803		19.55	1.40	0.05	0.3	0.007	0.006	0.06	5.7	1.1	3.22	10000	0.28	0.02	3.0	6.4
555804		19.70	1.40	0.06	0.2	0.005	0.007	0.05	7.0	1.0	3.15	9190	0.22	0.02	3.2	5.1
555805		18.90	1.01	0.05	0.2	<0.005	0.005	0.06	6.0	0.8	3.75	7600	0.18	0.02	4.3	4.4
555806		0.27	0.19	<0.05	<0.1	<0.005	<0.005	0.01	1.4	1.4	2.36	209	<0.05	0.03	0.1	0.3
555807		22.1	2.88	0.06	0.5	0.028	0.014	0.21	10.4	1.7	3.78	8430	0.28	0.08	10.0	10.3
555808		24.0	1.33	0.07	0.3	0.018	0.008	0.15	8.8	0.9	3.65	9210	0.24	0.06	6.4	4.7
555809		20.7	1.07	0.05	0.2	0.016	0.006	0.11	6.8	0.6	3.02	7500	0.21	0.04	3.4	4.0
555810		23.2	0.47	0.06	0.1	0.014	<0.005	0.04	4.8	0.4	3.32	7150	0.20	0.02	0.8	3.1
555811		23.0	0.72	0.06	0.1	0.024	0.005	0.08	7.7	0.6	3.63	8510	0.13	0.03	1.6	3.6
555812		21.6	1.41	0.06	0.2	0.020	0.007	0.16	7.8	0.8	3.60	10000	0.20	0.06	3.0	5.7
555813		22.2	1.89	0.06	0.2	0.026	0.009	0.19	6.3	0.8	3.32	10300	0.25	0.08	3.9	6.2
555814		17.85	1.89	<0.05	0.3	0.027	0.008	0.14	5.7	1.1	3.11	8600	0.30	0.06	3.8	4.5
555815		20.7	2.07	0.07	0.3	0.088	0.009	0.17	9.0	1.0	3.20	9990	0.30	0.07	4.0	6.8
555816		15.85	1.03	0.05	0.1	0.021	0.006	0.11	6.0	0.7	2.67	7720	0.28	0.04	2.3	4.1
555817		20.5	1.79	0.05	0.2	0.015	0.007	0.10	6.3	1.0	3.18	10500	0.23	0.04	3.2	5.8
555818		14.50	1.23	0.05	0.2	0.018	0.006	0.05	4.5	1.2	3.96	7960	0.21	0.02	1.8	4.3
555819		5.44	14.25	0.07	2.3	0.164	0.051	1.03	15.7	14.8	3.98	741	5.73	1.16	16.7	249
555820		20.9	2.03	0.06	0.4	0.014	0.009	0.06	7.2	1.4	3.73	12850	0.43	0.03	3.3	7.6



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 30-SEPT-2018  
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**CERTIFICAT D'ANALYSE VO18233848**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555801		370	1.5	3.8	<0.002	0.29	0.10	0.9	<1	0.2	27.3	0.13	<0.05	0.70	0.033	0.02
555802		370	1.0	2.8	<0.002	0.13	0.10	0.7	1	<0.2	16.5	0.10	<0.05	0.48	0.032	<0.02
555803		420	1.5	2.2	<0.002	0.19	0.11	0.8	1	<0.2	22.8	0.13	0.06	0.57	0.036	0.02
555804		400	1.2	1.9	<0.002	0.10	0.10	0.8	<1	<0.2	22.4	0.11	<0.05	0.61	0.030	<0.02
555805		340	1.4	1.9	<0.002	0.04	0.09	0.7	1	<0.2	34.8	0.17	<0.05	0.68	0.033	<0.02
555806		70	0.5	0.1	<0.002	<0.01	0.06	0.1	1	<0.2	78.7	<0.05	<0.05	0.07	0.005	<0.02
555807		560	1.6	6.5	<0.002	0.08	0.15	1.7	1	0.2	41.6	0.39	0.07	1.92	0.079	0.02
555808		420	1.7	4.7	<0.002	0.23	0.13	0.9	1	<0.2	53.2	0.20	0.05	1.16	0.042	0.02
555809		320	0.9	3.6	<0.002	0.20	0.12	0.5	1	<0.2	25.4	0.11	0.06	0.48	0.023	<0.02
555810		270	0.8	1.3	<0.002	0.34	0.08	0.3	<1	<0.2	19.3	<0.05	<0.05	0.13	0.010	<0.02
555811		510	1.3	2.6	<0.002	0.58	0.10	0.3	1	<0.2	45.2	0.06	0.08	0.26	0.012	<0.02
555812		440	1.2	5.0	<0.002	0.10	0.14	0.8	<1	<0.2	42.3	0.11	<0.05	0.56	0.029	<0.02
555813		300	1.2	6.1	<0.002	0.12	0.27	1.0	1	<0.2	23.3	0.14	0.05	0.81	0.037	0.02
555814		330	1.6	4.3	<0.002	0.17	0.18	1.1	1	<0.2	36.3	0.14	<0.05	0.79	0.043	<0.02
555815		950	1.4	5.5	<0.002	0.17	0.29	1.2	1	<0.2	28.8	0.15	<0.05	0.89	0.043	0.02
555816		420	1.4	3.5	<0.002	0.28	0.09	0.7	1	<0.2	30.3	0.07	<0.05	0.49	0.021	<0.02
555817		410	1.0	3.0	<0.002	0.09	0.12	1.1	1	<0.2	20.3	0.12	<0.05	0.66	0.037	<0.02
555818		340	2.0	1.8	<0.002	0.05	0.09	0.8	1	<0.2	59.2	0.08	<0.05	0.33	0.026	<0.02
555819		1090	9.6	37.6	<0.002	0.08	0.79	20.0	1	1.0	273	0.91	0.25	2.40	0.665	0.20
555820		430	1.3	2.1	<0.002	0.14	0.11	1.3	1	<0.2	30.5	0.16	<0.05	0.60	0.051	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 30-SEPT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233848**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555801		0.4	22	0.4	5.8	10	10.0
555802		0.2	18	0.3	5.9	7	10.1
555803		0.3	21	0.3	6.6	7	10.7
555804		0.3	21	0.2	6.5	7	8.7
555805		0.1	17	0.2	5.4	7	9.8
555806		0.1	1	0.1	2.2	7	1.4
555807		0.3	37	0.3	6.6	16	21.7
555808		0.2	22	0.3	6.8	11	12.0
555809		0.1	15	0.2	5.1	7	7.4
555810		0.1	8	0.2	4.0	7	3.5
555811		0.1	12	0.2	5.2	11	4.8
555812		0.3	21	0.3	6.4	9	8.3
555813		0.4	25	0.2	5.7	8	10.4
555814		0.5	25	0.2	5.6	8	11.7
555815		1.2	27	0.3	7.8	8	11.8
555816		0.2	17	0.2	5.1	8	6.3
555817		0.4	24	0.2	6.2	8	9.7
555818		0.2	19	0.4	6.3	5	7.5
555819		0.6	142	9.2	14.9	84	96.8
555820		0.4	29	0.4	6.7	10	14.4



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **30-SEPT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233848**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 13-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18233850

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Bon de commande #: KANDH18-125

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 19-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233850**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558531		4.25	<0.001	0.04	6.64	5.0	100	0.36	0.12	6.09	0.09	9.63	44.6	151	4.42	128.5
558532		3.12	<0.001	0.12	6.80	36.2	180	0.49	0.08	5.99	0.07	10.05	58.6	149	8.68	116.5
558533		3.87	<0.001	0.04	6.61	8.8	930	1.60	0.05	3.02	0.02	53.0	16.8	75	9.78	2.6
558534		4.21	<0.001	0.04	7.11	8.8	900	1.68	0.05	2.74	0.08	46.4	23.4	115	15.30	53.8
558535		4.16	<0.001	0.03	7.58	<0.2	850	1.91	0.11	0.84	<0.02	68.1	12.4	71	7.24	25.7
558536		0.32	<0.001	0.01	0.10	<0.2	20	0.07	0.05	32.8	<0.02	1.45	0.6	2	0.07	1.0
558537		4.29	<0.001	0.07	6.81	3.5	620	1.67	0.22	0.36	0.03	51.0	12.2	67	7.12	28.5
558538		4.33	<0.001	0.45	7.19	1.8	700	1.68	0.17	0.35	0.04	50.8	11.2	69	4.82	30.1
558539		4.44	<0.001	0.08	8.44	13.5	670	1.77	0.17	1.16	0.14	48.1	30.8	130	2.74	80.6
558540		4.27	<0.001	0.09	7.51	21.8	400	1.67	0.15	2.51	0.19	47.3	25.4	112	2.15	92.6
558541		4.45	<0.001	0.09	7.49	10.6	420	2.25	0.22	0.55	0.06	38.6	15.9	97	3.15	38.2
558542		4.48	<0.001	0.09	6.99	2.6	370	2.29	0.21	0.24	0.04	28.8	12.5	96	3.45	57.0
558543		4.38	<0.001	0.04	6.81	7.8	360	2.08	0.19	0.15	0.03	28.4	12.1	89	4.01	30.1
558544		2.19	0.002	0.30	6.31	15.7	310	1.87	0.27	1.50	0.40	47.2	17.2	76	3.68	94.2
558545		2.55	0.025	1.40	5.56	5.9	190	1.16	1.28	0.84	5.13	50.8	26.2	70	3.54	459
558546		4.76	<0.001	0.34	6.63	19.6	360	1.84	0.34	0.63	1.41	48.7	23.6	81	4.56	156.0
558547		4.91	<0.001	0.06	6.93	61.9	360	2.08	0.14	0.07	0.02	25.1	12.3	91	4.53	31.1
558548		4.10	0.005	0.72	7.05	2.5	380	2.06	1.14	0.71	1.54	50.5	13.8	83	4.40	78.5
558549		0.07	0.673	0.21	6.92	20.5	330	1.44	0.16	4.46	0.19	48.6	42.6	205	1.74	54.6
558550		3.92	0.007	0.44	7.11	3.2	220	1.51	0.27	0.54	2.32	61.9	30.7	112	4.67	115.5



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233850**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558531		8.95	15.95	0.06	0.7	<0.005	0.070	1.07	3.4	54.4	4.25	1380	0.23	1.09	3.1	81.7
558532		8.75	16.55	0.06	0.8	0.027	0.072	1.92	3.7	62.3	4.09	1420	0.21	1.30	3.3	84.6
558533		4.26	15.65	0.11	2.8	<0.005	0.015	3.99	24.3	51.3	2.14	860	0.11	0.82	8.4	40.9
558534		5.24	16.00	0.12	2.4	0.005	0.028	4.71	22.1	56.8	2.33	907	0.23	0.35	7.0	60.0
558535		4.00	21.9	0.16	3.6	<0.005	0.034	4.97	31.1	61.2	1.55	537	0.27	0.04	9.6	32.4
558536		0.14	0.28	0.05	0.1	<0.005	<0.005	0.03	1.4	1.4	1.42	93	0.06	0.03	0.2	0.5
558537		3.81	20.5	0.14	4.3	0.008	0.042	4.57	22.2	52.3	1.30	399	0.28	0.25	8.8	32.0
558538		3.40	20.9	0.14	4.6	<0.005	0.037	4.59	22.0	49.4	1.30	294	0.64	0.26	8.4	32.6
558539		6.16	20.2	0.13	3.5	0.008	0.062	3.60	24.2	52.6	2.77	744	2.37	0.04	3.4	73.6
558540		8.42	19.30	0.14	2.0	0.006	0.052	2.59	23.9	48.3	3.00	1130	0.90	0.05	5.1	57.8
558541		5.51	23.7	0.13	2.3	<0.005	0.050	3.90	16.9	44.2	1.38	368	0.54	0.08	7.5	38.9
558542		4.82	26.0	0.13	2.6	0.006	0.057	4.23	12.2	45.7	1.07	223	1.50	0.11	8.0	39.6
558543		4.64	24.8	0.12	2.8	0.008	0.053	4.30	11.9	39.9	0.95	311	0.50	0.15	8.4	33.7
558544		8.01	17.95	0.14	1.6	0.041	0.059	3.09	22.9	32.0	1.34	822	4.26	0.29	5.2	59.3
558545		16.60	14.85	0.18	2.5	0.373	0.185	2.68	27.8	21.7	0.70	254	31.3	0.61	4.5	145.5
558546		7.75	22.2	0.13	2.5	0.100	0.094	4.00	22.2	36.6	1.01	257	4.97	0.11	4.0	56.0
558547		4.44	25.3	0.12	3.1	0.015	0.048	4.50	10.3	37.0	0.88	219	0.72	0.28	6.9	34.5
558548		6.54	22.6	0.15	2.7	0.153	0.434	4.10	23.4	38.8	1.08	373	2.31	0.21	3.6	35.6
558549		7.30	19.65	0.13	3.9	0.021	0.064	0.87	20.6	15.4	2.85	942	2.30	1.72	19.4	142.0
558550		12.45	22.2	0.17	4.4	0.268	0.137	3.96	32.6	31.9	0.75	267	11.85	0.51	7.5	85.0





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233850**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558531		390	1.7	30.5	0.002	0.08	0.67	43.2	<1	0.5	81.4	0.20	<0.05	0.33	0.692	0.15
558532		410	2.2	61.6	0.003	0.06	0.38	44.4	<1	0.4	75.4	0.21	<0.05	0.27	0.691	0.30
558533		330	3.9	47.2	<0.002	<0.01	0.54	13.8	<1	0.3	55.2	0.61	<0.05	7.66	0.378	0.41
558534		320	3.6	81.4	0.002	0.05	0.58	22.3	<1	0.4	51.3	0.50	<0.05	6.50	0.471	0.73
558535		380	3.8	81.7	0.002	0.10	0.68	10.9	1	1.2	23.4	0.71	0.05	12.10	0.351	0.60
558536		60	<0.5	0.9	<0.002	<0.01	0.09	0.2	1	<0.2	83.2	<0.05	<0.05	0.15	0.007	<0.02
558537		340	12.9	96.8	0.003	0.11	0.68	9.4	<1	1.3	18.4	0.66	0.11	10.85	0.323	0.79
558538		300	15.5	105.5	0.005	0.34	0.81	9.3	1	1.4	22.4	0.62	0.27	11.80	0.317	0.76
558539		410	5.9	114.5	0.004	0.92	0.84	29.7	2	1.0	47.8	0.24	0.12	8.79	0.296	0.59
558540		590	5.6	93.7	0.003	0.68	0.55	24.1	2	1.1	93.3	0.40	0.13	7.95	0.401	0.54
558541		220	11.8	91.0	0.003	0.37	0.81	14.7	1	1.4	33.0	0.58	0.08	8.73	0.360	0.85
558542		200	11.8	103.5	0.003	0.61	1.28	11.9	1	1.7	29.1	0.62	0.09	7.97	0.324	1.01
558543		190	9.5	116.0	<0.002	0.30	1.05	10.4	1	1.6	27.2	0.66	0.09	8.39	0.318	1.14
558544		310	37.8	97.2	0.009	3.22	2.21	9.6	4	1.6	107.5	0.38	0.27	8.48	0.168	1.30
558545		340	257	93.2	0.043	9.72	11.55	11.0	9	2.0	53.7	0.26	1.26	4.75	0.126	1.47
558546		200	27.1	102.0	0.007	4.46	3.55	10.0	3	2.3	48.9	0.25	0.37	9.80	0.162	1.93
558547		200	6.5	116.5	0.002	0.88	1.34	10.8	1	1.7	25.5	0.46	0.09	8.32	0.266	2.00
558548		200	118.5	117.5	0.004	3.24	1.47	10.8	4	4.2	65.0	0.21	1.14	10.85	0.159	1.76
558549		1160	14.3	24.5	0.002	0.03	1.05	18.6	<1	1.7	347	1.19	0.05	4.79	0.918	0.20
558550		310	25.5	105.5	0.013	7.41	6.40	18.4	4	2.7	56.1	0.42	0.49	5.37	0.222	2.47



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18233850**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
558531		0.1	351	0.2	23.8	94	23.8
558532		0.1	356	0.8	24.9	75	33.3
558533		1.7	106	0.8	17.0	28	93.3
558534		1.4	175	0.7	12.5	40	81.9
558535		2.4	69	1.1	10.3	49	125.0
558536		0.2	2	0.1	2.4	4	2.1
558537		2.2	71	0.9	7.1	83	149.0
558538		2.6	81	0.8	6.2	82	160.0
558539		2.5	254	0.8	7.8	111	122.0
558540		1.8	189	0.8	7.1	115	67.7
558541		1.6	117	1.3	4.3	79	78.6
558542		1.8	113	1.2	3.3	86	89.2
558543		1.3	73	1.3	3.1	78	88.3
558544		3.0	107	1.0	5.4	141	56.5
558545		21.7	311	1.3	8.7	1200	91.4
558546		3.6	95	1.0	5.2	380	85.2
558547		1.3	68	1.3	2.5	74	103.5
558548		2.3	70	1.6	4.6	504	87.9
558549		1.2	147	2.3	19.8	132	145.5
558550		12.2	165	1.1	9.7	654	164.5



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **13-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233850**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada			
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP21	Hg-MS42	ME-MS61	



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Page: 1  
Nombre total de pages: 2 (A - D)  
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Compte: MINVIR

**CERTIFICAT VO18233859**

Projet: Kan  
Bon de commande #: KANDH18-119  
Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18233859**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558361		4.45	<0.001	0.10	7.96	2.2	540	1.96	0.20	0.72	0.58	45.8	12.6	77	6.32	57.9
558362		4.47	<0.001	0.08	8.64	5.1	800	1.97	0.09	1.48	0.15	60.9	18.6	87	3.60	64.5
558363		4.46	<0.001	0.08	8.27	9.1	680	1.99	0.13	0.44	0.08	71.4	14.3	66	3.84	41.1
558364		4.84	<0.001	0.07	9.44	3.7	670	2.52	0.17	0.10	0.03	131.0	14.1	66	3.78	32.9
558365		4.51	<0.001	0.05	9.40	4.5	690	2.46	0.18	0.15	0.04	96.4	14.7	68	3.66	19.6
558366		4.41	<0.001	0.05	9.59	6.6	700	2.67	0.18	0.17	0.06	159.5	15.9	71	4.01	36.5
558367		4.40	<0.001	0.10	10.10	5.7	690	2.43	0.20	0.15	0.04	103.0	16.3	71	3.45	34.0
558368		4.59	<0.001	0.03	9.36	2.9	620	2.38	0.12	0.24	<0.02	110.5	15.8	68	3.02	38.1
558369		0.07	0.672	0.22	7.58	20.7	350	1.58	0.15	4.70	0.23	54.3	45.4	190	2.11	61.0
558370		4.35	<0.001	0.02	8.92	4.4	670	2.29	0.02	0.44	<0.02	110.0	13.0	67	2.70	7.9
558371		4.46	<0.001	0.02	9.33	0.4	960	2.50	0.01	0.47	<0.02	134.0	12.5	71	2.38	3.0
558372		4.41	<0.001	<0.01	8.77	0.5	520	1.72	0.01	0.50	<0.02	95.9	14.2	68	1.37	11.6
558373		4.71	0.001	0.04	7.48	3.3	30	0.56	0.02	6.78	0.12	15.70	46.1	176	0.78	132.0
558374		4.42	0.001	0.04	7.99	3.3	40	0.53	0.02	6.66	0.10	14.80	48.1	193	0.58	147.0
558375		4.56	<0.001	0.02	7.18	11.5	10	0.33	0.02	6.69	0.08	7.23	54.3	242	0.14	68.7
558376		0.25	<0.001	<0.01	0.13	<0.2	20	0.05	0.01	34.2	<0.02	1.12	0.9	3	<0.05	1.6
558377		4.24	0.002	0.05	7.80	13.2	10	0.44	0.02	6.89	0.14	11.40	61.3	211	0.22	159.0
558378		4.61	<0.001	0.02	6.24	0.5	220	0.41	0.01	6.45	0.05	21.7	46.0	10	10.25	120.5
558379		4.51	<0.001	0.02	7.62	1.5	30	0.40	0.01	6.74	0.07	12.75	48.4	147	0.63	45.0
558380		4.50	<0.001	<0.01	7.75	3.8	10	0.35	0.02	6.89	0.04	5.35	59.4	309	0.19	3.8



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18233859**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558361		5.94	21.8	0.12	2.7	0.020	0.058	3.79	22.3	36.6	1.55	382	1.01	0.77	7.5	35.4
558362		5.17	20.4	0.14	4.3	<0.005	0.050	4.20	31.2	34.5	2.01	741	2.23	0.14	6.5	52.5
558363		4.45	21.4	0.17	3.4	0.008	0.056	4.23	35.2	31.1	1.44	379	0.25	0.37	9.0	35.7
558364		4.46	26.6	0.16	3.2	<0.005	0.054	4.74	75.7	41.7	1.32	467	0.24	0.28	10.6	33.2
558365		4.45	26.3	0.14	3.0	0.005	0.059	4.95	50.2	38.9	1.37	387	0.21	0.17	10.8	36.2
558366		4.40	28.4	0.18	3.8	0.006	0.056	4.95	92.1	45.6	1.36	448	0.23	0.22	11.2	35.0
558367		4.90	25.5	0.16	3.4	0.006	0.059	4.85	54.0	39.1	1.46	464	0.26	0.31	10.8	34.4
558368		4.83	24.0	0.15	3.2	0.007	0.055	4.25	61.0	40.4	1.47	472	0.27	0.44	10.6	34.3
558369		7.56	20.6	0.11	3.7	0.023	0.075	0.93	23.9	16.8	3.03	982	2.50	1.77	19.9	150.5
558370		4.10	24.1	0.16	3.1	<0.005	0.025	3.95	60.6	39.7	1.60	542	0.30	0.65	11.0	31.9
558371		3.70	26.3	0.18	3.6	<0.005	0.020	3.68	75.5	38.7	1.77	582	0.18	1.67	11.3	34.1
558372		4.47	23.3	0.15	3.1	<0.005	0.028	1.47	51.3	24.1	1.67	605	0.31	3.88	10.4	32.0
558373		9.57	18.85	0.08	1.3	0.007	0.092	0.22	5.8	26.8	4.15	1550	0.33	1.34	4.4	75.3
558374		9.78	19.60	0.07	0.9	<0.005	0.079	0.19	5.8	21.8	4.88	1530	0.29	1.56	4.0	111.5
558375		8.42	16.05	0.06	0.6	<0.005	0.062	0.03	2.6	19.3	5.30	1440	0.21	1.95	2.4	215
558376		0.17	0.33	0.06	<0.1	<0.005	0.005	0.02	1.2	1.4	1.52	96	<0.05	0.04	0.2	1.7
558377		9.63	18.45	0.07	0.9	0.008	0.077	0.04	4.0	22.7	5.71	1580	0.25	1.68	3.4	225
558378		12.05	20.9	0.09	2.6	0.005	0.127	1.33	8.0	26.2	3.00	1770	0.42	0.22	6.9	29.8
558379		9.72	19.90	0.06	1.3	<0.005	0.089	0.23	4.5	17.7	4.44	1540	0.30	1.52	4.1	121.0
558380		8.03	15.30	0.05	0.5	<0.005	0.054	0.05	1.9	22.6	6.53	1340	0.12	1.86	1.5	310



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18233859**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558361		320	11.3	117.0	0.002	0.49	0.24	9.7	1	2.1	73.7	0.55	0.11	10.25	0.287	0.82
558362		310	10.9	128.5	0.006	0.72	0.34	16.1	1	1.4	88.4	0.46	0.06	12.70	0.362	0.62
558363		340	12.0	129.5	<0.002	0.08	0.15	11.3	1	1.5	36.7	0.68	0.11	12.70	0.334	0.65
558364		360	19.2	174.0	<0.002	0.07	0.12	13.0	<1	1.7	22.4	0.75	0.09	20.4	0.357	0.66
558365		340	21.2	152.5	<0.002	0.04	0.11	12.5	1	1.7	19.5	0.80	0.10	15.25	0.368	0.61
558366		390	24.8	140.0	<0.002	0.03	0.12	14.1	<1	1.7	20.3	0.82	0.09	24.2	0.379	0.67
558367		390	26.9	153.5	<0.002	0.04	0.11	12.7	1	1.7	18.4	0.79	0.11	16.95	0.372	0.59
558368		380	8.6	149.5	<0.002	0.11	0.10	11.9	1	1.6	17.0	0.79	0.07	17.30	0.373	0.56
558369		1210	14.2	38.7	<0.002	0.02	1.07	19.0	1	1.7	359	1.17	<0.05	5.13	0.958	0.18
558370		390	3.4	139.0	<0.002	0.03	0.09	13.1	<1	1.0	19.7	0.77	<0.05	18.65	0.369	0.46
558371		450	3.3	117.0	<0.002	<0.01	0.10	14.5	<1	1.0	24.4	0.82	<0.05	22.0	0.397	0.39
558372		360	2.8	45.2	0.002	0.01	0.10	11.9	<1	0.9	43.2	0.74	<0.05	15.55	0.366	0.18
558373		530	2.3	9.2	<0.002	0.04	0.43	39.9	1	0.8	151.5	0.29	<0.05	0.83	0.782	0.07
558374		490	2.2	6.7	0.003	0.06	0.45	39.9	1	0.8	164.5	0.26	<0.05	0.87	0.794	0.05
558375		310	1.8	0.5	0.002	0.01	0.49	26.6	1	0.6	151.0	0.16	<0.05	0.22	0.547	<0.02
558376		60	<0.5	0.5	<0.002	<0.01	<0.05	0.3	1	<0.2	86.4	<0.05	<0.05	0.09	0.010	<0.02
558377		440	1.9	1.0	0.003	0.02	0.52	35.8	1	0.8	148.0	0.22	<0.05	0.35	0.688	<0.02
558378		850	1.9	70.4	0.003	0.41	0.24	44.0	2	1.3	96.9	0.44	<0.05	0.69	1.295	0.45
558379		520	2.0	8.2	0.002	0.01	0.34	41.1	1	1.0	142.0	0.28	<0.05	0.41	0.838	0.05
558380		190	1.8	1.1	0.002	<0.01	0.51	29.5	1	0.6	137.5	0.10	<0.05	0.17	0.396	<0.02



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18233859**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
558361		2.6	80	1.0	6.5	144	97.1
558362		3.0	161	0.9	9.3	88	158.0
558363		2.2	77	1.0	9.9	81	124.5
558364		2.6	70	1.2	24.4	81	116.5
558365		2.3	74	1.2	12.7	87	97.7
558366		3.0	74	1.3	16.9	91	132.0
558367		2.6	77	1.2	13.2	86	112.0
558368		2.4	71	1.4	17.2	71	134.5
558369		1.2	154	2.1	20.3	136	143.0
558370		2.7	69	2.0	20.5	30	102.5
558371		3.0	76	0.9	22.6	26	113.5
558372		2.4	73	0.5	17.2	40	103.5
558373		0.2	373	0.3	26.7	99	50.4
558374		0.2	383	0.3	23.9	97	24.0
558375		0.1	282	0.2	15.4	83	15.6
558376		0.1	3	0.1	2.1	3	1.5
558377		0.1	337	0.3	23.0	98	27.6
558378		0.2	522	0.4	42.8	116	80.9
558379		0.1	401	0.3	26.4	92	38.7
558380		<0.1	219	0.1	12.2	76	14.4





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Page: **Annexe 1**  
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**CERTIFICAT D'ANALYSE VO18233859**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada

Applique à la Méthode:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applique à la Méthode:	Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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## CERTIFICAT VO18233860

Projet: Kan

Bon de commande #: KANDH18-126

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 19-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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**CERTIFICAT D'ANALYSE VO18233860**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558551		1.80	0.002	0.15	6.87	0.3	460	2.09	0.25	0.11	0.09	24.6	16.4	94	5.44	149.0
558552		3.56	<0.001	0.19	6.71	67.0	180	0.56	0.04	5.25	0.59	9.36	46.8	148	2.20	153.0
558553		4.33	0.005	0.17	6.46	51.5	160	0.61	0.04	5.01	0.28	15.35	43.7	132	2.20	138.5
558554		2.46	<0.001	0.05	7.85	5.3	410	2.12	0.05	0.15	0.02	59.6	18.1	102	2.73	45.1
558555		2.45	0.004	0.20	7.35	1.6	400	3.06	0.20	0.06	0.02	62.0	19.0	100	2.72	41.3
558556		2.55	0.001	0.19	7.35	34.3	380	2.62	0.21	1.01	0.08	45.5	25.6	98	2.54	60.2
558557		4.08	0.025	1.35	6.07	109.0	190	1.69	0.23	1.09	3.20	59.6	24.8	74	3.54	195.0
558558		4.47	0.026	1.73	5.80	125.0	150	2.24	0.39	0.95	9.68	50.3	24.5	74	4.67	175.5
558559		0.07	2.55	0.42	6.75	12.2	320	1.19	0.16	4.77	0.06	41.6	52.5	311	0.65	79.7
558560		4.34	0.025	2.39	3.04	113.0	100	1.39	0.31	2.83	11.65	39.2	21.2	53	3.07	222
558561		4.38	0.026	2.18	3.17	93.3	90	1.25	0.26	2.03	15.20	43.5	15.5	59	2.85	315
558562		4.36	0.024	2.02	2.44	148.5	90	1.13	0.20	1.84	15.10	46.9	19.8	52	2.38	322
558563		4.27	0.018	2.10	2.71	172.0	90	1.41	0.20	2.37	15.55	53.2	30.8	55	2.90	354
558564		4.80	0.020	2.08	2.35	248	80	0.98	0.29	3.79	11.55	43.2	20.0	51	2.40	272
558565		4.78	0.045	2.98	3.90	368	100	1.90	0.46	1.12	13.15	39.5	25.1	69	3.70	128.0
558566		0.20	<0.001	0.01	0.13	2.2	20	0.11	0.01	33.2	0.04	1.93	0.7	2	0.06	2.6
558567		5.24	0.041	2.91	4.59	435	110	2.11	0.45	0.50	6.82	44.4	25.1	64	3.65	44.4
558568		5.00	0.041	2.65	3.68	407	120	1.90	0.43	1.96	17.05	45.9	24.9	67	3.26	104.0
558569		4.21	0.042	2.66	2.42	305	110	1.36	0.33	5.20	18.40	39.7	21.2	50	2.94	173.0
558570		2.84	0.005	0.87	5.49	223	320	2.51	0.19	1.58	1.05	65.3	14.4	54	3.12	239



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18233860**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558551		6.33	22.8	0.13	2.3	0.016	0.051	4.01	10.0	42.5	1.08	103	3.98	0.06	7.4	51.3
558552		9.10	16.05	0.11	2.0	<0.005	0.068	1.94	3.5	43.4	3.73	1060	0.28	0.22	2.6	115.0
558553		8.14	15.85	0.10	1.1	0.006	0.065	1.71	6.7	44.1	3.90	1180	0.36	0.40	2.1	96.3
558554		9.03	21.1	0.13	2.7	0.007	0.044	2.48	30.1	59.1	1.89	510	2.27	0.04	11.2	49.1
558555		11.15	21.1	0.15	2.6	0.010	0.059	2.50	30.6	58.3	1.64	384	1.94	0.04	17.6	58.6
558556		10.20	19.85	0.14	2.1	0.005	0.056	2.39	22.6	75.9	1.88	820	3.18	0.09	7.1	60.2
558557		15.85	18.05	0.18	4.8	0.302	0.092	2.82	31.1	33.4	0.95	642	16.10	0.11	12.2	162.0
558558		13.30	15.65	0.21	2.6	0.624	0.082	2.73	30.8	32.8	0.72	613	74.0	0.14	4.5	201
558559		7.34	18.35	0.13	3.4	0.070	0.054	0.97	19.9	9.9	5.45	1040	3.21	1.96	28.2	349
558560		13.25	8.65	0.17	1.7	0.522	0.058	1.12	24.0	23.6	1.24	2120	107.0	0.06	4.2	198.5
558561		16.00	9.08	0.20	1.5	0.565	0.074	1.12	26.6	22.9	1.22	1840	111.5	0.04	3.1	275
558562		14.15	7.26	0.21	1.6	0.532	0.060	0.89	27.0	21.0	1.09	1800	97.5	0.03	2.7	239
558563		16.50	8.24	0.21	1.6	0.494	0.060	0.95	31.4	27.8	1.44	2620	102.5	0.03	2.8	259
558564		15.90	6.98	0.15	1.2	0.498	0.047	0.78	25.3	25.4	2.04	3200	106.5	0.06	3.0	240
558565		16.20	10.65	0.19	1.7	1.215	0.073	1.82	23.9	26.7	0.71	506	103.0	0.17	6.2	249
558566		0.18	0.41	0.06	0.1	<0.005	<0.005	0.03	1.6	1.3	1.49	93	0.20	0.06	0.2	0.6
558567		19.20	12.25	0.26	1.7	1.115	0.046	2.18	25.9	30.1	0.45	207	65.2	0.20	5.2	205
558568		15.10	10.50	0.21	1.8	1.300	0.068	1.80	29.7	24.0	0.96	754	112.0	0.13	7.5	297
558569		13.75	6.92	0.17	1.6	1.125	0.062	1.23	26.2	17.9	2.29	2260	123.5	0.04	4.6	325
558570		8.44	14.90	0.14	3.7	0.059	0.042	2.35	30.2	40.5	1.64	2650	7.62	0.10	3.3	109.5



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18233860**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558551		170	7.8	115.0	0.013	1.75	2.82	11.2	3	1.5	20.6	0.64	0.13	7.27	0.264	2.00
558552		350	4.1	69.5	0.003	0.16	0.51	42.1	1	0.6	174.0	0.17	0.05	0.37	0.603	1.11
558553		300	6.3	66.0	0.002	0.16	0.48	34.9	1	0.6	177.0	0.16	<0.05	1.54	0.386	1.32
558554		250	4.9	81.5	0.004	0.57	0.98	14.7	1	1.8	14.3	0.80	0.09	10.05	0.349	1.43
558555		270	9.4	79.1	0.008	2.27	1.74	13.4	1	1.8	10.6	1.05	0.10	9.18	0.340	1.44
558556		250	4.4	75.5	0.007	1.90	0.78	16.8	2	1.3	34.9	0.50	0.09	7.53	0.261	2.73
558557		300	37.1	72.4	0.020	>10.0	9.48	11.8	5	2.2	45.1	0.80	0.68	5.92	0.161	4.59
558558		500	55.9	83.0	0.066	>10.0	18.20	11.5	11	1.5	38.2	0.26	0.84	4.53	0.146	5.30
558559		1860	5.2	30.2	0.002	0.04	0.38	20.6	1	1.2	471	1.60	0.08	2.83	1.055	0.08
558560		1700	64.7	38.7	0.070	9.20	14.50	6.3	16	0.9	57.6	0.25	0.56	3.27	0.086	2.50
558561		1780	60.1	37.1	0.082	>10.0	12.15	7.1	20	0.9	54.4	0.19	0.41	3.52	0.076	2.48
558562		1780	49.3	31.4	0.073	9.35	11.30	4.8	19	0.8	43.8	0.18	0.23	3.94	0.050	2.17
558563		2430	49.0	36.0	0.071	>10.0	10.25	5.5	20	0.8	55.7	0.18	0.34	4.17	0.060	2.42
558564		2490	43.1	30.1	0.081	>10.0	11.10	5.2	15	0.7	69.3	0.19	0.47	3.21	0.062	2.37
558565		710	93.2	61.1	0.089	>10.0	37.2	8.1	15	1.1	28.6	0.40	0.78	4.20	0.113	5.60
558566		60	0.8	1.0	<0.002	0.02	0.14	0.2	1	<0.2	83.5	<0.05	<0.05	0.36	0.006	0.02
558567		230	108.0	70.8	0.052	>10.0	42.1	8.8	16	1.2	19.0	0.36	0.77	4.50	0.093	6.81
558568		650	79.1	61.2	0.095	>10.0	34.4	8.7	17	1.2	38.5	0.58	0.66	4.52	0.127	5.76
558569		1270	65.9	44.4	0.106	>10.0	25.9	6.5	20	0.9	76.6	0.33	0.44	3.65	0.093	4.46
558570		930	13.1	82.2	0.014	4.71	3.52	9.2	6	1.8	60.9	0.15	0.21	8.72	0.079	5.56



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18233860**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
558551		3.9	278	1.5	3.1	131	74.8
558552		0.1	334	0.5	5.0	136	44.2
558553		0.4	275	0.6	4.7	98	44.0
558554		3.5	165	1.4	6.5	162	94.3
558555		5.5	237	1.7	7.1	147	94.0
558556		3.3	197	1.1	5.6	136	71.0
558557		11.6	180	0.9	14.4	671	171.5
558558		34.0	813	2.1	20.6	1580	96.7
558559		0.6	147	3.3	20.3	106	138.5
558560		41.2	957	2.1	27.6	1820	62.2
558561		42.6	954	1.8	24.9	2370	58.8
558562		40.2	884	1.3	25.1	2320	60.9
558563		44.7	914	1.4	27.4	2360	61.5
558564		39.5	959	1.5	24.0	1800	47.1
558565		43.4	1040	2.6	22.3	2070	65.7
558566		0.3	3	0.1	2.5	9	2.4
558567		25.4	570	1.7	13.6	1050	67.6
558568		40.5	1240	3.1	24.2	2340	68.4
558569		50.6	1360	3.3	28.7	2500	59.7
558570		7.1	183	1.0	12.6	191	126.5



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Page: **Annexe 1**  
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 Finalisée date: **13-OCT-2018**  
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**CERTIFICAT D'ANALYSE VO18233860**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
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## CERTIFICAT VO18233863

Projet: Kan

Bon de commande #: KANDH18-127

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 19-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager





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**CERTIFICAT D'ANALYSE VO18233863**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558571		4.30	<0.001	0.43	5.32	114.0	360	2.59	0.21	1.59	0.19	72.0	13.5	50	3.28	86.1
558572		4.49	<0.001	0.17	4.65	65.4	310	2.32	0.15	1.44	0.23	73.8	11.5	46	2.72	47.6
558573		4.41	0.002	0.56	6.67	64.5	470	3.06	0.48	0.74	0.53	83.1	23.4	56	4.07	148.5
558574		2.55	0.001	0.66	6.08	37.4	320	3.35	0.30	1.43	3.00	75.9	20.1	52	3.62	167.0
558575		4.01	0.056	5.13	2.28	90.8	120	1.89	0.45	1.57	20.3	40.9	27.6	52	4.21	426
558576		4.71	0.062	4.63	2.06	152.0	120	1.67	0.42	3.00	14.50	40.9	27.8	47	3.71	276
558577		4.21	0.075	5.06	2.75	217	90	2.11	0.50	1.38	20.2	48.0	26.4	57	4.95	190.0
558578		4.37	0.062	4.84	2.19	92.8	120	1.69	0.32	1.53	13.85	38.9	18.4	43	4.31	311
558579		0.07	7.61	1.35	6.05	33.3	310	0.94	0.50	2.91	0.08	30.2	40.3	316	0.67	112.0
558580		4.62	0.042	4.72	2.68	62.2	140	2.22	0.29	0.83	31.4	42.0	14.1	53	6.13	373
558581		4.53	0.035	4.92	3.04	47.8	90	2.14	0.32	0.20	17.40	35.3	35.6	59	4.67	531
558582		4.90	0.023	4.11	3.49	23.7	150	2.99	0.24	0.87	22.7	49.4	20.6	66	5.82	392
558583		3.91	0.079	5.82	2.29	16.5	130	1.81	0.35	2.02	30.8	46.8	8.4	47	3.48	386
558584		2.82	0.028	2.66	2.51	158.0	150	1.89	0.22	3.00	12.60	51.3	16.2	55	2.79	242
558585		4.78	<0.001	0.56	3.88	59.4	250	2.38	0.26	2.05	1.08	57.2	14.1	49	4.12	124.0
558586		4.67	<0.001	0.22	4.96	22.3	370	2.31	0.23	1.53	1.12	67.1	13.2	52	4.05	65.3
558587		4.43	<0.001	0.48	4.54	145.5	270	2.35	0.30	1.96	0.83	61.7	12.1	50	3.63	114.0
558588		2.28	0.012	1.34	2.06	126.5	90	1.09	0.22	2.18	7.86	48.3	14.4	47	1.42	189.5
558589		0.23	<0.001	0.01	0.07	0.3	20	0.07	0.01	33.9	0.02	1.05	0.6	3	<0.05	1.4
558590		4.71	0.047	4.52	2.07	8.6	90	0.96	0.32	2.04	17.15	41.3	12.9	43	3.02	315



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 14-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233863**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558571		8.88	14.30	0.12	3.6	0.020	0.052	2.40	34.6	28.1	1.66	5420	3.59	0.17	4.3	32.6
558572		9.74	12.85	0.11	3.5	0.021	0.052	1.99	35.6	19.1	1.73	5870	3.92	0.47	4.3	26.7
558573		7.79	18.00	0.14	4.3	0.031	0.078	2.98	40.6	52.0	1.50	1180	3.80	0.16	5.3	45.4
558574		8.79	16.60	0.15	3.9	0.078	0.061	2.71	36.0	57.2	1.76	2000	3.78	0.10	4.1	106.0
558575		17.00	6.42	0.18	1.3	0.743	0.065	1.18	28.1	23.5	0.79	1300	170.5	0.03	2.7	374
558576		15.30	6.00	0.18	1.0	0.813	0.054	1.07	28.9	21.9	1.47	2940	149.5	0.03	3.0	347
558577		13.55	8.01	0.17	1.8	1.240	0.070	1.40	33.7	25.5	0.80	1060	194.0	0.04	5.0	358
558578		13.60	6.09	0.15	1.0	0.751	0.045	1.12	26.1	22.0	0.83	1220	141.5	0.03	1.9	354
558579		5.48	14.90	0.07	2.2	0.184	0.044	1.04	16.0	15.6	3.90	742	6.00	1.15	16.8	248
558580		13.75	7.59	0.16	1.1	1.195	0.076	1.39	31.2	26.0	0.61	842	223	0.04	2.3	308
558581		19.30	8.52	0.20	1.4	0.533	0.044	1.56	24.6	27.1	0.35	290	121.0	0.04	4.2	391
558582		15.35	9.79	0.19	2.0	0.822	0.065	1.81	34.2	33.8	0.64	866	184.5	0.05	4.3	307
558583		14.25	6.62	0.18	1.8	1.020	0.089	1.18	30.6	25.0	0.85	1800	141.5	0.03	3.6	294
558584		10.80	7.28	0.15	1.6	0.429	0.050	1.22	27.9	24.2	1.60	3210	64.6	0.05	2.9	190.0
558585		15.70	10.60	0.12	2.0	0.059	0.048	1.73	27.6	24.7	2.08	2840	4.93	0.18	3.2	50.4
558586		9.61	13.60	0.10	3.2	0.064	0.063	2.19	32.6	30.1	1.77	3270	7.08	0.44	3.3	35.4
558587		13.75	12.15	0.12	2.6	0.043	0.052	1.82	29.3	39.0	2.06	2340	4.74	0.11	3.5	57.8
558588		14.10	6.10	0.14	1.2	0.281	0.045	0.66	26.5	20.7	1.40	2010	52.8	0.02	2.4	163.0
558589		0.16	0.25	0.06	<0.1	<0.005	0.007	0.01	1.2	1.2	1.23	107	0.23	0.03	0.1	0.4
558590		17.00	5.67	0.17	1.1	0.591	0.132	1.02	28.0	11.6	0.99	1560	145.0	0.03	2.4	300



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 14-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233863**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558571		1090	7.5	89.5	0.006	1.82	1.67	8.0	1	1.7	79.4	0.20	0.07	8.82	0.086	4.59
558572		1130	5.7	75.3	0.005	0.87	1.06	7.0	1	1.5	86.2	0.21	0.05	8.98	0.070	3.77
558573		1280	11.3	109.0	0.014	2.73	2.88	10.6	5	2.3	59.4	0.26	0.19	10.85	0.123	5.06
558574		1290	14.2	94.1	0.012	4.63	3.25	9.5	6	2.1	67.2	0.18	0.10	9.56	0.099	4.93
558575		1650	127.0	48.9	0.113	>10.0	27.7	4.9	26	1.0	59.2	0.16	0.50	3.30	0.060	3.47
558576		2480	112.5	43.0	0.107	>10.0	30.4	4.8	22	0.8	103.5	0.19	0.72	3.03	0.075	3.30
558577		1380	116.0	56.8	0.134	>10.0	40.8	6.0	17	1.0	52.0	0.38	0.97	4.13	0.086	4.50
558578		1410	108.0	45.7	0.079	9.74	24.6	4.5	20	0.8	53.1	0.13	0.44	3.19	0.057	3.29
558579		1080	9.4	37.1	<0.002	0.09	0.75	17.9	1	0.9	272	0.90	0.20	2.33	0.675	0.20
558580		1250	100.0	63.4	0.137	9.11	23.7	5.5	23	1.1	39.1	0.17	0.40	3.83	0.067	4.32
558581		770	117.5	61.2	0.127	>10.0	25.9	6.8	31	1.0	16.4	0.30	0.45	3.29	0.100	4.08
558582		1730	91.9	71.9	0.145	9.25	20.6	7.5	24	1.1	38.9	0.23	0.30	4.11	0.110	4.54
558583		2570	120.0	45.4	0.114	8.46	29.8	4.6	20	0.9	68.1	0.21	0.41	3.33	0.069	3.01
558584		2230	51.6	48.7	0.052	5.65	12.15	4.6	13	0.9	97.3	0.16	0.25	3.88	0.062	2.85
558585		2570	9.6	77.5	0.015	2.89	2.35	6.8	5	1.3	89.0	0.17	0.18	6.25	0.071	4.00
558586		1460	9.2	89.8	0.009	1.11	1.41	7.8	3	1.8	96.5	0.14	0.10	7.60	0.073	3.15
558587		2360	13.1	80.6	0.014	3.32	2.10	7.3	5	1.5	86.2	0.18	0.18	7.03	0.078	2.82
558588		2490	64.5	24.0	0.048	7.18	7.73	3.7	14	0.8	69.8	0.15	0.35	3.30	0.041	1.02
558589		60	0.5	0.3	<0.002	0.01	0.07	0.2	2	<0.2	85.8	<0.05	<0.05	0.07	0.005	0.02
558590		1870	198.0	37.3	0.085	9.89	27.2	4.2	20	0.9	72.1	0.16	0.63	3.24	0.054	1.90



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 14-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233863**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
558571		5.2	93	0.8	13.5	115	138.5
558572		5.1	81	0.7	13.6	124	134.5
558573		8.7	144	1.1	15.5	168	164.5
558574		7.1	129	1.2	15.3	352	149.0
558575		64.4	1540	2.8	27.4	2890	56.2
558576		63.3	1430	2.9	28.0	2110	44.7
558577		83.3	1780	3.7	32.0	2970	75.9
558578		57.4	1320	2.5	23.6	2160	45.5
558579		0.6	143	8.5	14.6	84	98.1
558580		93.1	1820	3.9	30.0	4650	49.9
558581		49.5	1460	3.1	20.2	2530	61.9
558582		82.5	1780	4.0	32.2	3310	82.2
558583		60.7	1250	2.4	31.5	4480	77.1
558584		33.4	652	1.2	21.2	1740	65.8
558585		6.0	171	0.4	14.2	358	78.4
558586		7.0	128	0.7	14.8	288	127.0
558587		6.6	142	0.5	15.5	266	99.9
558588		28.8	551	0.8	20.5	1260	53.1
558589		0.2	2	<0.1	2.2	7	1.5
558590		58.2	1220	2.2	26.2	2750	48.7





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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 13-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18233864

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Bon de commande #: KANDH18-120

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233864**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558381		4.47	0.001	0.06	6.56	14.7	40	0.48	0.01	5.52	0.09	9.87	45.7	131	3.06	133.5
558382		4.51	0.001	0.05	6.79	2.7	60	0.36	0.02	6.44	0.09	8.88	44.3	130	6.40	116.0
558383		4.50	0.001	0.08	6.93	34.9	10	0.30	0.01	6.94	0.16	7.33	57.2	126	1.14	134.0
558384		3.86	0.005	0.14	6.94	41.3	100	0.57	0.02	6.31	0.50	9.34	48.9	123	2.33	143.5
558385		4.48	0.002	0.09	8.79	4.5	520	2.31	0.20	0.52	2.13	65.7	18.2	96	5.02	51.9
558386		4.25	<0.001	0.02	10.80	6.3	640	3.40	0.07	0.12	0.03	83.3	12.7	91	6.45	23.1
558387		4.66	<0.001	0.03	9.72	7.1	540	3.06	0.05	0.09	0.04	79.6	12.1	84	6.00	16.5
558388		4.54	0.001	0.10	9.97	0.6	540	3.00	0.14	0.11	0.07	81.8	12.4	87	6.77	56.8
558389		0.07	7.60	1.36	6.34	36.2	330	0.90	0.50	3.11	0.08	30.8	42.2	320	0.70	117.0
558390		4.30	0.004	0.08	8.92	1.6	480	2.68	0.17	0.16	0.06	71.4	13.2	86	6.39	60.7
558391		4.38	<0.001	0.07	9.59	0.6	460	2.66	0.12	0.12	0.03	75.9	12.9	95	6.71	35.1
558392		2.31	<0.001	0.08	9.61	1.4	460	2.57	0.14	0.14	0.04	74.9	11.4	88	7.00	28.5
558393		4.43	0.001	0.16	9.59	0.5	480	2.47	0.37	0.12	0.04	69.3	10.8	81	7.17	33.3
558394		5.08	0.002	0.08	9.13	0.7	480	2.24	0.18	0.18	0.03	70.3	9.3	80	5.78	37.4
558395		4.81	0.004	0.22	7.49	5.4	440	2.18	0.27	0.89	0.20	65.4	12.0	82	7.56	78.9
558396		0.23	<0.001	<0.01	0.13	0.2	30	0.09	0.02	35.5	0.02	1.51	0.6	2	0.07	1.4
558397		4.74	0.021	0.13	8.16	0.5	650	1.72	0.14	0.93	0.15	70.7	11.4	73	7.33	35.4
558398		4.65	0.002	0.22	8.68	2.3	700	2.14	0.20	0.87	0.35	81.1	11.2	85	8.73	45.3
558399		4.79	0.007	0.30	8.23	0.9	640	2.23	0.26	0.49	3.58	72.4	14.2	86	10.95	94.6
558400		4.84	0.001	0.16	8.26	0.6	640	1.89	0.13	0.79	0.10	67.0	12.2	79	5.96	43.3



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
 Compte: MINVIR

Projet: Kan

CERTIFICAT D'ANALYSE VO18233864
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Description échantillon	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
	0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558381	8.97	16.15	0.06	0.8	0.026	0.079	0.44	3.5	33.2	4.81	1140	0.22	1.24	3.2	84.8
558382	8.64	17.20	0.05	0.8	0.026	0.086	0.86	3.0	31.3	4.15	1400	0.18	1.62	3.2	86.3
558383	9.08	15.75	0.05	0.8	0.030	0.072	0.14	2.6	32.6	5.07	1670	0.20	1.32	2.7	176.5
558384	9.78	16.60	0.05	1.1	0.019	0.078	0.63	3.5	32.8	4.42	1570	0.21	1.08	3.0	127.5
558385	7.49	23.4	0.09	2.6	0.010	0.059	3.79	33.4	33.5	1.41	4320	1.48	0.51	10.0	41.7
558386	5.28	30.0	0.12	3.1	<0.005	0.065	5.11	43.9	42.7	1.29	680	0.67	0.87	9.2	35.5
558387	5.04	27.9	0.12	2.9	<0.005	0.061	4.60	40.9	45.7	1.24	405	0.54	0.82	8.8	32.4
558388	4.36	26.7	0.13	2.6	0.007	0.054	5.22	44.0	42.6	1.00	224	1.59	0.42	8.4	36.0
558389	5.78	16.00	0.09	2.6	0.149	0.053	1.11	15.0	14.6	4.20	782	6.41	1.24	17.8	260
558390	4.27	25.7	0.11	2.5	0.012	0.054	4.81	38.0	40.4	0.96	202	1.48	0.39	8.3	35.7
558391	5.05	27.3	0.13	2.6	0.005	0.058	4.92	38.8	45.7	1.12	181	0.62	0.44	9.0	34.3
558392	4.78	28.1	0.12	2.7	0.006	0.060	5.00	38.7	49.2	1.10	172	0.59	0.39	9.2	34.7
558393	5.39	25.7	0.12	2.2	0.006	0.056	4.61	38.0	49.6	1.20	143	0.32	0.48	7.7	32.5
558394	6.51	24.1	0.12	2.1	<0.005	0.051	3.72	38.6	45.6	1.34	267	0.46	0.99	7.7	30.1
558395	7.83	20.1	0.12	1.9	0.010	0.053	3.25	35.6	44.4	1.65	800	1.37	0.84	5.7	35.3
558396	0.15	0.38	0.11	0.1	<0.005	0.005	0.04	1.4	1.4	1.43	93	0.05	0.04	0.2	0.5
558397	3.99	20.6	0.14	4.3	0.011	0.040	4.10	37.8	34.8	1.40	319	1.40	0.95	5.0	33.8
558398	4.55	23.2	0.12	4.0	0.020	0.047	4.73	42.6	41.8	1.49	271	1.82	0.72	6.4	40.6
558399	6.32	22.0	0.12	2.7	0.047	0.056	4.73	38.2	45.8	1.46	206	2.31	0.57	5.7	43.7
558400	4.37	21.2	0.12	4.1	0.008	0.047	4.00	35.1	38.1	1.58	329	1.59	1.02	5.1	38.7





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233864**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558381		390	2.0	19.0	0.003	0.07	0.30	39.3	1	0.5	121.5	0.20	<0.05	0.37	0.689	0.21
558382		350	2.1	39.3	<0.002	0.11	0.36	41.4	1	0.5	154.5	0.20	<0.05	0.26	0.695	0.37
558383		310	2.1	6.1	0.002	0.08	0.28	35.9	1	0.5	182.0	0.17	<0.05	0.22	0.583	0.06
558384		360	4.3	22.0	0.002	0.11	0.17	38.3	1	0.7	198.0	0.20	<0.05	0.32	0.651	0.15
558385		240	12.2	110.0	0.002	0.82	0.38	12.2	1	1.6	47.6	0.74	0.07	11.30	0.329	0.47
558386		200	7.3	155.0	0.002	0.26	0.36	12.4	1	2.7	44.5	0.75	0.05	18.10	0.376	0.57
558387		190	6.1	142.5	0.002	0.21	0.28	12.8	<1	2.5	41.7	0.69	<0.05	16.50	0.351	0.52
558388		190	13.2	167.0	0.004	0.59	0.48	11.0	2	1.8	44.5	0.68	0.08	16.50	0.336	0.57
558389		1150	10.5	37.8	<0.002	0.09	0.87	21.1	1	1.1	286	0.95	0.20	2.30	0.699	0.20
558390		180	17.3	150.5	0.004	0.56	0.44	11.3	2	1.8	43.5	0.66	0.05	14.45	0.311	0.54
558391		340	8.0	154.0	<0.002	0.48	0.40	13.0	1	1.9	50.5	0.70	<0.05	15.15	0.341	0.65
558392		200	11.0	148.0	0.002	0.35	0.40	12.0	1	1.9	54.3	0.70	<0.05	15.35	0.339	0.59
558393		190	29.3	167.5	0.002	0.37	0.27	10.5	1	1.6	47.6	0.62	0.08	14.05	0.304	0.70
558394		250	10.8	137.5	<0.002	0.44	0.26	9.4	1	1.6	56.1	0.59	0.06	13.70	0.294	0.57
558395		720	26.8	134.5	0.006	1.71	0.54	10.5	2	1.5	105.0	0.43	0.17	12.20	0.253	0.63
558396		70	0.6	1.2	<0.002	<0.01	<0.05	0.2	1	<0.2	88.2	<0.05	<0.05	0.18	0.009	<0.02
558397		420	16.6	155.5	0.003	1.00	0.45	8.9	1	1.3	115.0	0.34	0.07	13.25	0.251	0.69
558398		370	46.4	172.0	0.004	1.23	0.62	11.6	2	1.6	108.0	0.44	0.11	15.10	0.294	0.83
558399		210	28.1	191.5	0.008	2.13	0.76	11.8	3	1.6	71.7	0.41	0.16	13.85	0.281	0.99
558400		360	19.1	149.0	0.003	0.93	0.68	11.5	1	1.4	89.1	0.34	0.09	12.95	0.269	0.74



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 13-OCT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233864**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
558381		0.1	355	0.6	22.3	79	31.5
558382		0.1	362	0.6	23.1	68	26.7
558383		0.1	313	1.2	18.4	109	26.1
558384		0.1	350	0.6	14.7	104	32.9
558385		2.8	131	1.4	8.2	151	82.4
558386		2.5	97	1.6	6.5	87	95.9
558387		2.3	94	1.4	5.9	79	90.5
558388		2.7	106	1.4	7.1	64	81.0
558389		0.6	151	9.8	20.8	88	105.5
558390		2.5	103	1.3	5.7	72	76.5
558391		2.5	108	1.3	7.6	72	83.1
558392		2.4	96	1.2	7.0	78	86.6
558393		2.4	89	1.2	6.3	69	69.0
558394		2.1	74	1.2	6.6	85	67.0
558395		2.7	112	0.9	8.3	119	61.7
558396		0.2	2	0.2	2.2	3	2.1
558397		3.5	84	0.9	9.8	74	144.0
558398		3.4	112	1.0	10.8	93	131.5
558399		3.5	146	1.0	8.6	172	86.3
558400		3.2	93	0.8	8.8	92	144.5



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **13-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233864**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 12-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18233866

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Bon de commande #: KANDH18-121

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 12-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233866**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558401		4.69	<0.001	0.01	7.88	4.5	10	0.35	0.01	7.45	0.04	7.46	52.6	276	0.19	4.7
558402		4.81	<0.001	0.01	7.17	0.4	40	0.30	0.01	6.52	0.05	11.00	39.5	130	0.81	49.6
558403		4.81	<0.001	0.01	6.72	5.6	<10	0.32	0.01	7.36	0.03	5.30	59.2	280	0.26	4.9
558404		4.75	<0.001	0.04	6.66	4.6	<10	0.26	0.01	6.55	0.07	6.26	64.0	270	0.15	107.5
558405		4.78	<0.001	0.02	6.54	6.8	<10	0.24	0.01	6.04	0.05	6.49	62.6	329	0.17	59.8
558406		4.83	0.099	0.02	7.07	9.4	10	0.22	0.01	6.68	0.06	5.53	62.9	285	0.20	49.1
558407		4.78	<0.001	0.03	7.01	6.4	50	0.22	0.02	6.77	0.07	6.75	54.6	345	0.23	78.9
558408		4.67	<0.001	0.04	6.32	14.9	40	0.18	0.02	6.21	0.07	5.80	66.6	234	0.20	86.1
558409		0.07	0.685	0.22	6.98	20.0	320	1.22	0.14	4.29	0.23	50.6	41.2	183	1.98	54.1
558410		4.89	<0.001	0.03	6.08	18.6	50	0.19	0.01	6.12	0.07	5.29	73.9	272	0.22	73.7
558411		4.91	<0.001	0.03	7.25	5.5	40	0.17	0.01	7.20	0.07	6.42	58.2	254	0.19	84.6
558412		4.76	<0.001	0.02	7.71	1.4	20	0.27	0.02	7.63	0.06	5.73	49.3	308	0.16	78.6
558413		4.73	<0.001	0.03	7.74	0.5	10	0.28	0.02	7.55	0.07	7.76	47.6	290	0.19	116.0
558414		4.78	<0.001	0.05	6.32	7.8	30	0.24	0.02	5.94	0.09	4.35	69.4	280	0.24	100.5
558415		4.70	<0.001	0.04	6.73	5.2	40	0.27	0.02	6.70	0.07	5.31	60.9	312	0.23	92.1
558416		0.29	<0.001	<0.01	0.15	<0.2	20	0.08	0.02	32.1	<0.02	0.91	0.8	3	<0.05	1.7
558417		4.37	<0.001	0.03	6.35	0.3	20	0.25	0.02	6.32	0.07	4.76	67.0	286	0.17	105.5
558418		4.88	<0.001	0.05	6.75	1.6	30	0.19	0.02	6.66	0.09	5.07	70.7	297	0.21	116.0
558419		4.91	<0.001	0.03	6.00	3.3	30	0.25	0.02	6.28	0.09	4.61	71.0	287	0.16	98.9
558420		4.69	<0.001	0.02	5.97	2.0	30	0.19	0.02	5.64	0.05	4.57	69.4	268	0.16	46.0



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 12-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233866**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558401		7.39	15.70	0.05	0.9	<0.005	0.050	0.04	2.7	21.3	5.51	1260	0.13	1.94	2.4	265
558402		8.60	18.85	0.07	1.4	0.008	0.089	0.22	3.7	15.4	4.11	1380	0.21	2.11	4.5	86.0
558403		8.58	15.65	0.07	0.6	<0.005	0.050	0.04	2.0	22.1	6.07	1460	0.14	1.34	1.6	339
558404		8.27	14.75	0.06	0.7	0.015	0.056	0.03	2.2	23.9	6.36	1350	0.14	1.33	2.1	344
558405		8.04	13.10	0.07	0.7	0.011	0.048	0.03	2.4	23.5	6.40	1300	0.14	1.49	2.0	340
558406		7.95	14.10	0.07	0.6	0.006	0.044	0.05	2.0	23.7	6.37	1310	0.17	1.51	1.7	339
558407		7.24	14.75	0.06	0.7	0.006	0.048	0.17	2.4	20.0	6.06	1160	0.16	1.73	2.1	271
558408		7.77	13.75	0.08	0.7	0.019	0.045	0.16	2.2	24.4	6.67	1260	0.10	1.21	1.7	377
558409		7.13	18.60	0.09	3.5	0.015	0.070	0.86	22.8	13.8	2.81	913	2.98	1.67	19.7	140.5
558410		8.32	12.65	0.09	0.6	0.014	0.041	0.18	1.9	27.1	7.29	1350	0.09	0.94	1.5	436
558411		7.69	15.35	0.08	0.6	0.009	0.048	0.14	2.4	20.2	5.71	1200	0.13	1.37	1.9	310
558412		7.01	15.85	0.06	0.5	<0.005	0.048	0.08	2.0	15.5	4.71	1140	0.19	1.83	2.1	197.5
558413		7.14	16.00	0.06	0.7	0.011	0.057	0.08	2.7	13.6	4.80	1140	0.18	1.82	2.8	163.0
558414		8.04	12.40	0.06	0.5	0.024	0.041	0.14	1.5	25.6	7.00	1300	0.11	1.01	1.6	399
558415		7.60	14.00	0.06	0.5	0.010	0.047	0.17	1.9	20.0	6.26	1240	0.14	1.26	1.9	325
558416		0.15	0.48	<0.05	<0.1	<0.005	<0.005	0.01	1.1	1.0	1.37	91	<0.05	0.07	0.3	1.4
558417		8.08	13.00	0.05	0.5	0.022	0.042	0.11	1.7	23.7	6.92	1310	0.21	1.06	1.7	388
558418		8.44	13.70	0.05	0.5	0.020	0.046	0.15	1.8	24.7	7.20	1350	0.19	1.10	1.8	414
558419		7.96	13.20	0.05	0.4	0.019	0.046	0.13	1.6	24.3	6.93	1280	0.26	0.93	1.7	412
558420		8.07	13.00	0.06	0.5	<0.005	0.039	0.16	1.6	29.0	6.89	1300	0.11	1.08	1.8	397



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233866**

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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558401		290	2.3	0.9	0.002	<0.01	0.51	21.0	<1	0.6	158.5	0.15	<0.05	0.31	0.438	<0.02
558402		570	1.6	9.9	<0.002	0.01	0.28	46.0	<1	0.8	108.0	0.28	<0.05	0.38	0.965	0.06
558403		170	1.9	1.8	<0.002	<0.01	0.48	17.0	1	0.5	127.0	0.10	<0.05	0.22	0.375	<0.02
558404		250	1.9	0.6	0.002	0.01	0.49	18.0	<1	0.5	126.0	0.13	<0.05	0.17	0.421	<0.02
558405		210	1.8	0.8	<0.002	0.01	0.44	18.0	<1	0.5	102.0	0.12	<0.05	0.20	0.373	<0.02
558406		170	1.8	1.4	0.003	0.01	0.49	18.0	<1	0.5	125.5	0.10	<0.05	0.19	0.336	<0.02
558407		240	1.9	4.2	0.002	0.01	0.47	20.0	<1	0.6	132.0	0.13	<0.05	0.21	0.405	0.02
558408		180	1.6	4.3	<0.002	0.01	0.45	15.0	1	0.5	111.0	0.10	<0.05	0.17	0.342	0.02
558409		1110	14.7	39.0	<0.002	0.02	1.04	18.0	1	1.7	345	1.10	0.05	4.97	0.881	0.21
558410		180	1.5	5.5	<0.002	0.01	0.40	13.0	<1	0.4	90.5	0.10	<0.05	0.17	0.312	0.03
558411		230	2.0	3.4	0.002	0.05	0.48	17.0	1	0.4	155.0	0.12	<0.05	0.22	0.396	0.03
558412		260	2.1	1.8	0.002	0.06	0.57	25.0	<1	0.4	180.5	0.14	<0.05	0.15	0.457	0.02
558413		310	2.0	2.1	<0.002	0.15	0.43	37.3	1	0.6	162.5	0.17	<0.05	0.21	0.560	0.02
558414		190	1.6	3.7	0.002	0.02	0.39	21.5	1	0.3	91.8	0.10	<0.05	0.12	0.333	0.02
558415		220	1.7	4.3	<0.002	0.04	0.37	21.0	<1	0.4	122.0	0.12	<0.05	0.15	0.417	0.03
558416		50	0.5	0.4	<0.002	<0.01	<0.05	0.3	1	<0.2	80.1	<0.05	<0.05	0.06	0.006	<0.02
558417		190	1.6	2.5	0.002	0.06	0.41	24.6	<1	0.4	100.5	0.11	<0.05	0.13	0.374	0.02
558418		250	1.9	3.5	<0.002	0.07	0.38	21.8	<1	0.4	109.0	0.12	<0.05	0.14	0.390	0.03
558419		200	1.8	3.2	<0.002	0.06	0.39	20.4	1	0.4	104.5	0.12	<0.05	0.11	0.354	0.02
558420		180	1.6	3.5	<0.002	0.02	0.42	16.9	<1	0.4	98.0	0.12	<0.05	0.12	0.330	0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 12-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233866**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
558401		0.1	227	0.2	17.7	65	32.1
558402		0.1	472	0.2	29.4	64	51.7
558403		<0.1	224	0.1	13.1	77	16.8
558404		<0.1	228	0.2	14.7	77	22.1
558405		<0.1	201	0.1	15.4	74	22.5
558406		<0.1	189	0.1	13.4	72	18.4
558407		0.1	224	0.1	17.4	63	23.6
558408		<0.1	193	0.1	13.7	70	18.9
558409		1.3	144	2.1	20.6	126	146.5
558410		<0.1	181	0.1	12.8	76	17.0
558411		0.1	212	0.1	15.7	67	19.7
558412		<0.1	237	0.1	14.3	68	13.2
558413		0.1	282	0.1	18.6	63	20.6
558414		<0.1	176	0.1	10.7	80	14.2
558415		<0.1	212	0.1	13.4	73	15.0
558416		0.2	2	0.1	2.1	4	1.2
558417		<0.1	192	0.1	12.1	77	15.0
558418		0.1	205	0.1	12.1	82	13.9
558419		<0.1	183	0.1	11.4	78	15.2
558420		<0.1	168	0.1	11.1	79	18.7





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **12-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233866**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada			
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP21	Hg-MS42	ME-MS61	



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 12-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18233869

Projet: Kan

Bon de commande #: KANDH18-122

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 12-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233869**

Description échantillon	Méthode	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	élément	Poids reçu	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	unités	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LDI	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558421		4.78	<0.001	0.03	6.39	9.3	30	0.18	<0.01	5.88	0.06	5.52	82.9	254	0.28	63.2
558422		4.77	<0.001	0.01	5.80	5.3	40	0.15	<0.01	5.56	0.05	5.32	68.3	234	0.29	32.0
558423		4.72	<0.001	0.04	7.00	1.5	40	0.21	0.01	6.63	0.09	5.30	71.0	289	0.26	100.5
558424		4.75	<0.001	0.05	6.49	0.6	30	0.18	<0.01	6.22	0.10	4.99	71.6	281	0.23	118.5
558425		4.64	<0.001	0.06	6.70	0.7	30	0.16	<0.01	5.76	0.12	4.43	75.1	252	0.26	126.5
558426		4.85	<0.001	0.03	6.50	0.5	40	0.21	<0.01	5.93	0.07	4.28	73.7	262	0.26	55.0
558427		4.76	<0.001	0.03	6.73	0.2	60	0.20	<0.01	6.01	0.08	4.37	75.4	235	0.34	66.5
558428		4.81	<0.001	0.02	6.79	0.6	50	0.22	<0.01	6.05	0.07	5.75	77.6	249	0.32	51.3
558429		0.07	2.54	0.42	6.61	11.0	310	1.06	0.14	4.63	0.09	41.2	49.0	293	0.64	75.2
558430		4.78	<0.001	0.02	6.56	2.0	40	0.22	<0.01	5.90	0.09	4.38	76.2	229	0.26	65.0
558431		4.52	<0.001	0.02	6.39	0.3	40	0.16	<0.01	5.91	0.06	4.23	79.4	216	0.29	45.2
558432		4.90	<0.001	0.04	6.47	0.2	30	0.16	<0.01	6.42	0.09	4.25	70.5	192	0.25	79.2
558433		4.90	<0.001	0.05	6.37	1.2	20	0.20	<0.01	5.75	0.10	4.43	78.7	260	0.22	88.3
558434		5.00	<0.001	0.02	6.55	<0.2	30	0.19	<0.01	5.93	0.07	4.68	80.2	220	0.27	43.0
558435		4.95	<0.001	0.04	6.50	0.5	30	0.18	<0.01	5.82	0.10	4.84	77.1	256	0.26	76.6
558436		0.26	<0.001	0.01	0.09	0.3	20	<0.05	<0.01	34.2	<0.02	0.97	0.9	4	<0.05	1.1
558437		4.80	<0.001	0.03	6.57	1.3	50	0.23	<0.01	5.89	0.08	4.50	74.8	213	0.30	56.9
558438		4.71	<0.001	0.02	6.63	1.7	40	0.20	<0.01	6.30	0.07	4.26	72.7	178	0.29	29.7
558439		4.47	<0.001	0.04	6.30	4.8	60	0.19	<0.01	6.08	0.10	4.97	74.4	227	0.31	72.7
558440		4.58	<0.001	0.04	6.52	5.0	20	0.24	0.02	5.48	0.12	4.32	86.4	207	0.28	76.6



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 12-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233869**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558421		9.36	12.20	0.07	0.7	0.011	0.039	0.13	2.0	30.2	9.16	1490	0.16	0.65	1.8	512
558422		7.92	11.10	0.06	0.7	0.009	0.035	0.19	1.8	27.4	7.39	1270	0.12	0.77	2.0	398
558423		8.46	14.15	0.06	0.4	0.015	0.046	0.19	1.9	25.2	7.49	1310	0.18	0.94	1.8	439
558424		8.25	13.65	0.08	0.5	0.011	0.046	0.15	1.8	25.6	7.35	1300	0.28	1.04	1.8	441
558425		8.44	11.35	0.07	0.5	0.022	0.030	0.12	1.6	28.1	8.46	1350	0.12	0.99	1.5	492
558426		8.28	13.05	0.07	0.5	0.007	0.041	0.17	1.5	30.0	8.25	1360	0.11	0.82	1.6	508
558427		8.29	13.35	0.07	0.5	0.008	0.039	0.25	1.6	30.0	8.15	1340	0.15	0.91	1.6	509
558428		8.63	12.75	0.08	0.8	0.016	0.050	0.20	2.0	31.5	9.13	1450	0.17	0.76	2.4	561
558429		7.17	17.50	0.12	3.2	0.056	0.056	0.95	19.7	8.4	5.32	1020	2.91	1.92	27.0	341
558430		8.22	13.15	0.07	0.4	0.010	0.035	0.17	1.5	29.9	8.22	1340	0.12	0.83	1.6	504
558431		8.74	12.55	0.08	0.4	0.011	0.041	0.19	1.5	31.5	8.60	1400	0.09	0.62	1.5	529
558432		7.90	12.10	0.07	0.4	0.016	0.041	0.11	1.6	27.8	7.55	1320	0.29	1.04	1.4	448
558433		8.48	12.45	0.09	0.5	0.010	0.040	0.11	1.6	30.7	8.41	1410	0.08	0.85	1.6	527
558434		8.90	12.55	0.08	0.5	0.012	0.040	0.12	1.6	31.5	8.98	1440	0.07	0.73	1.6	544
558435		8.26	13.00	0.07	0.5	0.007	0.040	0.15	1.7	30.3	8.18	1340	0.17	0.95	1.6	517
558436		0.14	0.24	<0.05	<0.1	<0.005	<0.005	0.01	1.1	0.9	1.35	94	<0.05	0.03	0.1	2.3
558437		8.24	13.25	0.06	0.5	0.009	0.035	0.20	1.6	30.6	8.16	1320	0.13	0.81	1.7	504
558438		7.94	11.85	0.07	0.5	0.006	0.035	0.16	1.5	29.8	7.99	1330	0.08	1.02	1.6	462
558439		8.03	11.85	0.08	0.5	0.014	0.034	0.24	1.8	29.3	8.11	1370	0.20	0.92	1.7	509
558440		9.13	11.25	0.07	0.5	0.007	0.035	0.08	1.7	36.4	9.80	1480	0.23	0.62	1.5	589



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18233869**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558421		210	1.4	4.2	0.003	0.07	0.38	24.7	1	0.4	66.7	0.12	<0.05	0.21	0.362	0.03
558422		230	1.3	5.8	<0.002	0.02	0.33	18.0	<1	0.3	70.5	0.14	<0.05	0.21	0.310	0.03
558423		220	2.1	5.5	<0.002	0.09	0.43	22.4	1	0.4	121.5	0.12	0.05	0.15	0.373	0.03
558424		220	2.4	4.3	0.003	0.08	0.43	18.5	1	0.5	113.5	0.11	<0.05	0.13	0.353	0.02
558425		190	1.8	3.5	0.002	0.06	0.38	18.1	<1	0.4	81.1	0.11	<0.05	0.13	0.316	0.02
558426		200	2.2	5.2	<0.002	0.03	0.39	16.2	<1	0.4	103.0	0.11	<0.05	0.12	0.314	0.03
558427		210	2.4	8.0	0.002	0.06	0.37	16.3	<1	0.4	105.5	0.11	<0.05	0.12	0.328	0.03
558428		250	2.3	5.9	0.003	0.04	0.35	18.1	1	0.5	83.7	0.15	<0.05	0.21	0.383	0.03
558429		1800	4.7	29.0	<0.002	0.03	0.33	18.8	1	1.2	461	1.50	0.09	2.74	1.020	0.06
558430		220	2.6	5.3	<0.002	0.03	0.36	15.3	1	0.4	100.0	0.11	<0.05	0.11	0.309	0.03
558431		170	2.2	6.0	<0.002	0.06	0.33	17.5	1	0.4	94.4	0.09	<0.05	0.11	0.312	0.04
558432		200	2.4	3.3	<0.002	0.05	0.33	17.3	<1	0.4	104.0	0.09	<0.05	0.11	0.295	0.02
558433		180	2.5	3.2	0.002	0.05	0.35	17.9	1	0.4	94.7	0.11	0.05	0.12	0.312	<0.02
558434		200	2.1	3.6	<0.002	0.05	0.31	19.3	1	0.4	89.3	0.10	<0.05	0.13	0.330	0.02
558435		200	2.5	5.0	0.002	0.05	0.34	17.7	1	0.4	105.0	0.11	<0.05	0.13	0.318	0.02
558436		50	<0.5	0.4	<0.002	<0.01	0.06	0.2	<1	<0.2	85.9	<0.05	<0.05	0.07	0.006	<0.02
558437		190	2.4	6.2	0.002	0.03	0.36	17.0	1	0.4	107.5	0.10	<0.05	0.14	0.316	0.03
558438		200	2.1	4.9	<0.002	0.02	0.32	15.6	<1	0.4	95.7	0.10	<0.05	0.13	0.279	0.03
558439		220	2.3	7.3	0.002	0.02	0.30	15.3	1	0.4	96.5	0.11	<0.05	0.14	0.263	0.03
558440		200	1.8	2.4	0.002	0.02	0.26	18.5	1	0.4	62.9	0.10	<0.05	0.14	0.311	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 12-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233869**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
558421		0.1	178	0.1	13.8	94	20.0
558422		0.1	143	0.1	12.9	81	21.9
558423		<0.1	191	0.1	12.1	83	12.6
558424		0.1	190	0.1	11.4	86	12.7
558425		<0.1	153	0.1	10.0	89	12.7
558426		<0.1	161	0.1	9.9	89	15.8
558427		0.1	169	0.1	10.1	90	13.4
558428		0.1	180	0.1	14.0	95	25.6
558429		0.6	144	3.1	19.8	102	134.0
558430		<0.1	164	0.1	10.0	88	13.6
558431		<0.1	158	0.1	9.6	92	11.7
558432		<0.1	152	0.1	9.2	86	12.1
558433		<0.1	158	0.1	10.0	93	13.5
558434		<0.1	168	0.1	10.5	93	14.4
558435		<0.1	164	0.1	10.7	89	14.0
558436		0.1	2	0.1	2.2	3	1.6
558437		<0.1	162	0.1	10.3	88	17.1
558438		<0.1	143	0.1	9.8	85	16.4
558439		<0.1	133	0.1	10.5	89	16.2
558440		0.1	156	0.1	9.7	102	15.1



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **12-OCT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233869**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 12-OCT-2018  
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## CERTIFICAT VO18233871

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Bon de commande #: KANDH18-123

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 12-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233871**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558441		4.83	<0.001	0.04	7.10	2.5	10	0.19	0.03	5.59	0.12	4.96	74.7	182	0.22	90.0
558442		4.73	<0.001	0.03	7.26	6.1	20	0.21	0.03	5.63	0.08	6.95	75.0	198	0.26	70.5
558443		4.49	<0.001	0.05	6.99	2.9	20	0.20	0.03	5.82	0.14	6.66	75.7	238	0.29	112.5
558444		4.68	<0.001	0.04	7.15	6.4	60	0.22	0.03	6.02	0.08	5.73	77.1	268	0.38	71.2
558445		4.65	<0.001	0.05	6.54	3.0	30	0.22	0.03	5.70	0.11	4.23	81.5	242	0.29	90.8
558446		4.69	<0.001	0.02	6.81	3.3	30	0.23	0.03	6.03	0.09	5.12	87.6	264	0.31	49.2
558447		4.78	<0.001	0.10	6.17	4.9	20	0.17	0.02	5.49	0.11	4.09	85.6	243	0.26	81.2
558448		4.83	<0.001	0.02	6.35	1.5	20	0.19	0.02	5.66	0.11	5.10	85.3	240	0.26	64.7
558449		0.07	7.09	1.28	6.07	32.7	310	0.98	0.49	2.93	0.07	28.7	39.6	307	0.64	106.5
558450		4.79	<0.001	0.02	6.61	0.4	40	0.18	0.02	5.79	0.07	4.32	71.5	252	0.30	53.8
558501		4.73	<0.001	0.04	6.78	0.6	40	0.20	0.03	6.63	0.12	4.50	73.6	237	0.40	94.9
558502		4.62	<0.001	0.03	6.92	0.2	30	0.17	0.03	6.17	0.08	4.95	74.0	217	0.31	83.4
558503		4.90	<0.001	0.03	7.19	0.4	40	0.23	0.02	6.34	0.06	4.74	72.8	204	0.37	61.0
558504		4.77	<0.001	0.02	7.08	0.2	40	0.22	0.02	6.16	0.07	5.64	79.0	210	0.36	67.1
558505		4.81	<0.001	0.02	6.65	2.1	80	0.19	0.02	6.18	0.06	5.23	73.6	256	0.37	34.9
558506		4.68	<0.001	0.04	6.70	<0.2	50	0.18	0.03	6.27	0.07	5.44	73.1	281	0.27	80.4
558507		4.88	<0.001	0.02	6.73	1.1	60	0.19	0.03	6.03	0.04	5.14	71.5	263	0.35	32.9
558508		4.85	<0.001	0.11	7.33	<0.2	40	0.21	0.03	6.26	0.16	5.65	64.4	263	0.34	287
558509		0.07	2.49	0.39	6.58	10.7	310	1.08	0.16	4.60	0.06	39.8	48.4	287	0.62	74.9
558510		4.64	<0.001	0.03	6.90	1.4	50	0.23	0.02	6.03	0.07	7.17	65.1	256	0.38	99.8



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 12-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18233871**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558441		8.37	12.85	0.08	0.5	0.021	0.033	0.06	1.8	33.8	7.98	1340	0.26	1.14	1.6	472
558442		8.42	12.70	0.10	1.2	0.012	0.036	0.07	2.5	33.4	8.22	1320	0.24	1.08	3.4	474
558443		8.55	12.70	0.07	0.7	0.016	0.037	0.09	2.5	32.1	8.56	1340	0.28	0.87	2.3	528
558444		8.29	12.85	0.07	0.6	0.009	0.038	0.25	2.1	34.3	8.67	1360	0.13	0.74	1.9	514
558445		8.84	11.50	0.08	0.5	0.015	0.035	0.11	1.6	35.6	9.34	1420	0.23	0.67	1.4	560
558446		9.31	13.00	0.06	0.5	0.010	0.045	0.12	1.9	39.2	9.75	1480	0.12	0.45	1.7	616
558447		9.03	11.10	0.08	0.5	0.014	0.034	0.10	1.5	36.3	9.62	1440	0.15	0.63	1.4	580
558448		8.81	11.75	0.07	0.5	0.014	0.038	0.10	1.9	37.8	9.47	1420	0.11	0.58	1.7	588
558449		5.51	14.90	0.09	2.4	0.169	0.047	1.05	14.4	15.8	3.97	737	5.94	1.19	15.4	248
558450		7.81	12.20	0.08	0.4	0.010	0.037	0.18	1.6	30.5	7.92	1250	0.10	0.98	1.5	472
558501		8.10	11.55	0.06	0.4	0.014	0.033	0.19	1.7	34.8	8.15	1320	0.19	0.86	1.5	465
558502		8.29	13.30	0.08	0.6	0.013	0.040	0.14	1.8	31.5	8.34	1300	0.18	0.76	1.7	490
558503		8.40	13.60	0.10	0.5	0.012	0.044	0.20	1.8	30.7	8.18	1290	0.14	0.98	1.6	473
558504		9.01	12.45	0.08	0.7	0.012	0.039	0.19	2.3	33.8	9.21	1360	0.13	0.73	1.6	533
558505		7.98	13.35	0.07	0.7	<0.005	0.042	0.36	1.9	32.6	8.29	1240	0.11	0.88	1.8	512
558506		8.18	13.55	0.09	0.9	0.012	0.044	0.23	1.9	31.5	8.10	1220	0.14	0.94	1.9	506
558507		8.06	13.60	0.09	0.7	0.007	0.041	0.29	1.9	32.4	7.98	1190	0.11	0.88	1.8	485
558508		7.69	13.35	0.06	0.7	0.036	0.039	0.22	2.0	25.9	6.89	1100	0.13	1.26	1.9	441
558509		7.16	16.85	0.10	3.3	0.066	0.055	0.96	19.5	9.1	5.28	1000	2.88	1.92	26.0	339
558510		7.96	12.75	0.08	0.9	0.017	0.040	0.27	2.7	28.5	6.89	1200	0.22	0.92	2.3	386



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18233871**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558441		200	2.3	1.8	0.002	0.04	0.33	20.5	1	0.4	105.5	0.10	<0.05	0.17	0.311	0.02
558442		370	2.2	2.2	0.002	0.05	0.30	18.1	<1	0.5	94.2	0.22	<0.05	0.37	0.406	<0.02
558443		290	2.3	2.9	0.002	0.11	0.30	17.4	1	0.5	99.2	0.14	<0.05	0.22	0.330	0.02
558444		240	2.2	7.6	0.002	0.02	0.29	18.2	<1	0.5	102.0	0.12	<0.05	0.17	0.312	0.05
558445		180	1.8	3.4	<0.002	0.04	0.27	19.7	<1	0.3	76.6	0.09	<0.05	0.12	0.307	0.02
558446		210	1.9	3.6	0.002	0.02	0.26	21.7	<1	0.4	88.5	0.11	<0.05	0.15	0.327	0.02
558447		180	1.5	2.8	<0.002	0.04	0.26	20.3	1	0.3	63.5	0.10	<0.05	0.11	0.300	0.02
558448		210	1.7	2.7	<0.002	0.02	0.27	21.9	<1	0.4	79.0	0.10	<0.05	0.17	0.280	0.02
558449		1100	9.1	36.1	<0.002	0.08	0.73	18.7	1	0.9	272	0.91	0.18	2.24	0.669	0.20
558450		180	2.0	5.5	0.002	0.03	0.32	21.4	1	0.3	110.5	0.10	<0.05	0.13	0.304	0.03
558501		190	2.3	6.3	0.002	0.05	0.30	17.7	1	0.3	92.0	0.10	<0.05	0.14	0.306	0.03
558502		200	1.9	4.2	0.002	0.05	0.27	21.7	1	0.4	105.0	0.11	<0.05	0.16	0.361	0.02
558503		190	1.9	6.4	<0.002	0.07	0.30	22.6	1	0.4	118.5	0.10	<0.05	0.16	0.340	0.04
558504		190	1.6	5.8	<0.002	0.10	0.28	19.3	1	0.3	91.5	0.11	<0.05	0.38	0.309	0.03
558505		220	1.6	10.0	<0.002	0.02	0.27	20.0	<1	0.4	98.2	0.12	<0.05	0.20	0.355	0.05
558506		210	1.7	5.8	<0.002	0.07	0.26	23.8	1	0.4	99.5	0.13	<0.05	0.16	0.398	0.02
558507		210	1.4	7.7	<0.002	0.02	0.30	23.4	1	0.5	93.4	0.11	<0.05	0.15	0.363	0.03
558508		250	1.6	5.8	0.002	0.11	0.34	22.7	1	0.4	116.0	0.12	<0.05	0.17	0.389	0.03
558509		1810	4.5	28.6	<0.002	0.03	0.34	18.7	<1	1.2	457	1.54	0.06	2.51	1.010	0.06
558510		280	1.3	7.3	0.002	0.03	0.33	21.9	<1	0.5	102.0	0.14	<0.05	0.22	0.301	0.04



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
558441	0.1	159	0.1	10.7	89	15.1	
558442	0.1	157	0.1	15.9	91	39.0	
558443	0.1	143	0.1	13.5	92	23.2	
558444	<0.1	150	0.1	12.7	91	17.4	
558445	<0.1	153	0.1	9.4	98	13.4	
558446	<0.1	164	0.1	11.5	100	16.2	
558447	<0.1	152	0.1	9.5	96	13.7	
558448	<0.1	140	0.1	11.3	93	15.3	
558449	0.6	145	8.9	14.4	84	95.0	
558450	<0.1	152	0.1	10.5	81	13.3	
558501	<0.1	148	0.1	10.1	83	12.8	
558502	<0.1	171	0.1	11.6	80	16.2	
558503	<0.1	164	0.1	11.2	81	15.6	
558504	0.1	151	<0.1	10.4	87	21.9	
558505	<0.1	185	<0.1	11.1	75	22.7	
558506	<0.1	202	<0.1	12.6	75	23.0	
558507	<0.1	183	0.1	12.1	67	21.6	
558508	<0.1	188	0.1	13.0	65	24.5	
558509	0.6	142	3.1	19.3	101	132.0	
558510	0.1	136	0.1	14.8	75	32.3	



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **12-OCT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233871**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada

Applique à la Méthode:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applique à la Méthode:	Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
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## CERTIFICAT VO18233905

Projet: Kan

Bon de commande #: KANDH18-113

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Projet: Kan

**CERTIFICAT D'ANALYSE VO18233905**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
558241		4.79	0.015	2.69	3.61	85.8	120	1.89	0.30	1.94	20.9	58.1	17.0	69	3.91	525
558242		5.00	0.017	2.29	3.08	143.5	110	1.72	0.29	2.13	18.50	49.2	34.1	61	3.07	416
558243		4.75	0.023	2.92	3.32	182.5	120	2.13	0.59	2.07	21.8	42.1	37.2	72	5.47	382
558244		4.85	0.043	3.55	3.01	176.0	130	2.05	0.59	2.11	21.5	40.6	32.1	71	4.98	260
558245		4.82	0.045	3.14	2.75	186.0	110	1.60	0.53	1.70	19.50	38.7	26.6	65	4.81	378
558246		4.05	0.031	2.17	2.79	347	110	1.31	0.31	3.73	14.95	37.2	18.3	59	2.56	177.5
558247		4.51	0.048	2.86	2.11	362	100	1.33	0.28	4.67	18.10	29.9	20.3	54	3.26	107.5
558248		4.05	0.062	3.99	2.94	117.0	140	1.87	0.37	1.11	20.5	48.1	18.8	66	4.45	382
558249		0.07	7.60	1.30	6.13	33.0	310	0.89	0.47	2.96	0.08	29.3	39.3	314	0.66	107.5
558250		4.74	0.061	4.67	2.83	50.7	130	1.73	0.44	1.70	21.1	46.9	15.9	63	3.45	372
558251		4.30	0.017	1.18	5.95	95.3	430	2.42	0.45	0.96	7.02	72.7	21.3	61	3.85	155.5
558252		1.87	0.010	0.79	3.77	53.6	230	1.72	0.28	1.95	2.54	53.4	16.4	39	2.72	108.5
558253		2.82	0.029	1.87	5.99	8.3	200	1.51	0.25	2.01	11.90	57.3	6.8	74	4.63	107.0
558254		4.69	0.011	0.96	9.17	43.6	220	1.45	0.31	0.90	3.05	63.4	27.4	96	5.24	67.5
558255		4.76	0.001	0.87	8.35	18.1	200	1.27	0.15	1.55	2.84	58.3	19.9	87	4.70	106.0
558256		0.24	<0.001	0.02	0.09	0.3	10	0.08	0.02	32.5	0.03	1.26	0.5	2	0.05	2.2
558257		4.32	0.003	1.26	6.35	6.3	260	2.58	0.12	1.25	0.75	76.7	11.0	75	4.24	121.5
558258		3.54	0.013	1.59	6.76	29.9	190	1.40	0.26	1.99	5.62	59.1	24.4	71	3.87	151.0
558259		4.67	0.025	1.70	7.85	71.9	200	1.35	0.31	1.12	4.23	60.4	22.8	82	4.65	82.6
558260		4.23	0.042	2.56	2.94	20.0	90	0.63	0.23	5.49	5.49	45.3	6.7	48	2.62	151.5



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Page: 2 - B  
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**CERTIFICAT D'ANALYSE VO18233905**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558241		16.80	9.92	0.17	2.2	0.698	0.073	1.49	36.2	26.3	1.09	2200	114.5	0.07	4.0	267
558242		17.80	8.84	0.17	1.8	0.619	0.062	1.18	27.6	27.9	1.30	2690	83.6	0.06	2.6	260
558243		17.95	9.07	0.16	1.6	0.858	0.068	1.55	27.1	28.7	1.10	1720	123.5	0.04	3.4	289
558244		15.10	8.33	0.17	1.5	1.030	0.079	1.40	26.8	27.3	1.09	1510	141.0	0.04	3.4	264
558245		15.75	8.02	0.20	1.3	0.981	0.055	1.29	26.4	23.8	0.82	1400	149.0	0.03	3.1	330
558246		14.80	7.64	0.16	1.5	1.245	0.062	1.26	24.8	19.7	1.64	1780	103.0	0.14	6.8	299
558247		13.40	5.84	0.15	1.1	1.455	0.060	1.11	21.4	19.4	2.06	2290	133.5	0.04	3.4	349
558248		14.55	8.24	0.17	1.9	0.873	0.064	1.30	32.3	24.9	0.60	837	186.0	0.03	6.1	313
558249		5.58	15.00	0.09	2.4	0.177	0.044	1.07	14.6	15.0	4.02	748	6.10	1.20	15.6	253
558250		13.60	7.96	0.17	1.7	0.593	0.063	1.07	30.2	26.6	1.03	1700	176.0	0.04	3.6	256
558251		7.61	15.50	0.15	3.8	0.222	0.070	2.39	37.0	37.9	1.25	1900	30.6	0.99	3.3	80.6
558252		15.10	10.25	0.12	2.2	0.112	0.057	1.48	25.5	26.6	1.86	2170	7.88	0.34	2.2	81.8
558253		14.70	15.35	0.17	2.3	0.426	0.148	2.85	35.0	26.3	1.11	865	51.9	0.08	4.3	165.0
558254		10.00	22.7	0.14	3.8	0.264	0.098	3.79	38.2	33.2	0.85	243	13.10	1.20	6.3	93.7
558255		11.85	21.2	0.14	3.5	0.150	0.103	3.34	34.4	32.9	1.17	395	11.90	1.14	3.6	119.5
558256		0.17	0.33	0.10	<0.1	<0.005	<0.005	0.02	1.3	1.5	1.46	90	0.43	0.03	0.2	1.5
558257		14.10	18.40	0.16	5.4	0.054	0.077	2.95	42.1	34.0	0.99	483	16.70	0.13	13.2	147.5
558258		14.05	16.95	0.12	3.3	0.284	0.103	3.22	34.6	24.1	1.18	576	20.2	0.14	5.7	140.0
558259		11.80	19.85	0.12	3.7	0.362	0.099	3.73	34.2	27.3	0.88	397	18.40	0.26	6.8	143.0
558260		13.10	7.92	0.12	1.5	0.246	0.103	1.37	28.4	12.0	2.44	2670	98.1	0.05	4.2	200





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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18233905**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558241		1900	55.7	52.4	0.079	>10.0	15.30	6.7	22	1.1	52.1	0.31	0.43	4.33	0.076	3.63
558242		1520	46.2	44.3	0.081	>10.0	12.20	6.0	23	1.0	54.1	0.17	0.46	4.16	0.063	3.07
558243		970	64.6	63.9	0.118	>10.0	20.2	7.9	21	1.2	53.6	0.24	1.01	3.97	0.084	5.04
558244		1240	69.6	56.9	0.108	>10.0	24.7	6.8	17	1.1	53.2	0.24	1.00	3.57	0.084	5.15
558245		1590	71.9	53.8	0.113	>10.0	26.0	6.1	24	1.2	42.8	0.19	0.91	3.38	0.074	5.09
558246		860	70.9	42.8	0.090	>10.0	28.8	6.7	18	1.0	48.6	0.52	0.51	3.54	0.103	4.06
558247		930	79.7	42.4	0.092	>10.0	35.9	5.3	15	0.9	67.8	0.24	0.52	2.91	0.076	4.48
558248		1510	76.7	52.8	0.110	>10.0	20.0	6.1	20	1.2	35.6	0.41	0.52	3.93	0.084	4.20
558249		1110	9.3	36.6	0.002	0.10	0.80	18.5	<1	0.9	277	0.92	0.21	2.29	0.680	0.20
558250		1850	94.0	45.2	0.109	7.94	15.60	5.8	18	1.1	58.8	0.22	0.61	4.14	0.081	3.19
558251		1290	29.4	94.2	0.034	2.94	6.39	10.2	7	2.0	82.4	0.19	0.19	9.49	0.094	4.39
558252		2430	21.5	63.1	0.012	4.24	3.28	6.3	6	1.1	93.2	0.12	0.22	5.72	0.058	2.18
558253		820	67.0	80.2	0.061	8.39	9.16	10.7	9	1.4	66.2	0.22	0.37	4.75	0.126	3.64
558254		230	59.3	97.2	0.015	7.49	7.23	17.1	3	1.8	52.2	0.36	0.61	5.19	0.253	4.59
558255		230	27.1	87.7	0.012	6.97	3.08	17.9	4	1.6	67.4	0.21	0.21	4.79	0.169	4.11
558256		50	1.6	0.7	<0.002	0.01	0.21	0.3	<1	<0.2	80.3	<0.05	<0.05	0.12	0.006	0.03
558257		480	21.5	85.4	0.014	7.77	4.67	13.7	6	2.5	45.9	0.70	0.21	6.31	0.193	4.11
558258		370	61.3	92.1	0.025	8.71	4.36	11.5	5	1.9	67.2	0.38	0.39	5.31	0.174	3.96
558259		240	58.2	94.1	0.021	9.59	8.32	14.5	4	2.2	56.3	0.47	0.73	5.30	0.224	4.86
558260		2170	89.8	43.5	0.051	7.58	10.85	7.0	9	1.1	157.5	0.27	0.30	3.02	0.089	2.27



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18233905**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
558241		52.1	1100	2.2	26.0	3130	86.5
558242		39.1	831	1.3	21.7	2630	66.9
558243		50.5	1400	2.6	21.9	3070	60.8
558244		58.7	1510	4.0	23.9	3030	58.4
558245		65.0	1580	3.0	26.1	2690	49.8
558246		45.0	1140	3.1	24.1	2080	57.0
558247		52.1	1380	3.1	29.7	2800	45.6
558248		71.9	1760	3.5	36.6	2920	76.0
558249		0.6	148	9.0	14.4	88	95.6
558250		76.4	1560	3.2	35.3	3080	63.5
558251		18.5	359	1.3	18.2	841	136.5
558252		7.8	164	0.6	14.8	466	81.5
558253		29.3	519	1.8	13.4	1880	85.5
558254		11.9	184	1.3	10.2	522	138.0
558255		10.6	166	0.9	8.9	573	126.5
558256		0.2	2	0.1	2.0	7	2.1
558257		11.1	147	2.0	14.1	137	234
558258		14.1	226	1.4	9.6	1130	122.5
558259		14.2	210	1.3	11.2	801	142.5
558260		37.2	756	1.9	19.0	1060	65.9



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**CERTIFICAT D'ANALYSE VO18233905**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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## CERTIFICAT VO18233908

Projet: Kan

Bon de commande #: KANDH18-114

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18233908**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558261		4.51	0.016	1.26	8.36	30.2	260	1.92	0.22	1.08	7.17	70.3	23.1	85	4.87	94.7
558262		1.31	0.017	0.99	9.07	12.4	340	2.48	0.12	0.49	1.82	62.5	25.4	99	5.73	79.1
558263		4.85	0.008	1.00	3.47	25.1	140	1.77	0.26	2.48	0.23	54.8	28.9	41	1.72	154.0
558264		4.61	0.011	0.81	4.47	7.0	250	2.53	0.42	1.84	1.11	65.6	13.7	50	3.46	226
558265		3.75	0.040	2.00	2.90	10.7	170	1.99	0.31	1.44	23.7	56.6	24.6	73	3.70	333
558266		3.64	0.055	1.84	2.95	32.5	160	1.49	0.29	1.48	12.45	53.0	17.3	54	3.29	336
558267		5.07	0.036	2.30	4.80	116.5	150	1.50	0.35	1.60	9.88	48.8	24.9	65	4.09	180.5
558268		4.78	0.023	1.21	6.45	67.9	160	1.26	0.28	3.16	5.50	52.3	18.7	64	3.54	120.0
558269		0.07	0.675	0.20	7.47	20.2	340	1.27	0.14	4.52	0.20	50.2	41.4	191	2.03	53.4
558270		3.53	0.014	0.89	6.20	36.9	180	1.42	0.16	2.41	3.73	49.6	20.0	73	3.33	101.0
558271		3.32	0.005	0.66	9.16	4.0	310	3.61	0.25	0.15	1.55	86.9	11.9	116	5.97	46.3
558272		4.74	0.007	0.53	6.34	4.5	200	2.43	0.20	0.95	2.26	71.9	14.2	77	3.48	52.7
558273		1.74	0.001	0.43	4.84	5.2	220	3.07	0.16	1.50	0.71	63.8	18.1	64	3.22	38.2
558274		3.72	0.003	0.17	7.23	3.2	320	3.00	0.20	0.18	0.05	43.6	21.9	103	3.14	35.0
558275		2.19	0.003	0.15	7.67	4.4	410	2.69	0.25	0.29	0.25	48.7	22.0	104	3.86	34.3
558276		0.21	<0.001	<0.01	0.10	<0.2	20	0.07	0.01	35.0	0.02	1.23	0.8	1	<0.05	1.0
558277		3.92	0.007	0.46	4.93	52.3	160	1.42	0.28	1.18	2.78	52.8	19.4	66	2.43	126.5
558278		4.21	0.022	0.83	7.45	105.0	190	1.31	0.30	2.03	4.83	57.3	21.0	81	4.76	161.5
558279		4.97	0.030	1.05	6.22	169.5	160	1.23	0.29	1.17	7.06	61.7	21.2	74	5.00	93.3
558280		4.57	0.040	1.13	4.48	150.0	130	0.89	0.34	3.45	8.33	48.9	18.3	60	3.79	95.4



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 5-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233908**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558261		11.90	22.0	0.19	5.0	0.224	0.122	3.89	40.1	29.9	0.78	487	24.0	0.47	5.2	135.0
558262		10.45	22.9	0.18	3.8	0.061	0.072	4.42	37.0	37.3	0.67	424	20.6	0.17	3.9	84.7
558263		18.15	9.66	0.15	2.1	0.027	0.036	1.19	26.1	34.1	2.39	2300	4.56	0.12	1.8	77.8
558264		15.25	12.45	0.16	2.5	0.055	0.061	2.22	31.1	36.1	1.86	1150	5.62	0.11	2.4	57.8
558265		10.30	8.46	0.20	2.2	0.614	0.093	1.46	33.1	24.5	0.87	783	120.0	0.04	2.4	229
558266		12.00	8.17	0.17	2.3	0.423	0.078	1.32	31.0	26.3	1.03	1080	116.5	0.04	4.6	250
558267		14.20	12.80	0.14	2.4	0.615	0.090	2.25	29.9	25.4	0.90	751	70.0	0.07	6.4	224
558268		12.00	16.80	0.10	3.4	0.283	0.098	2.51	30.8	24.7	1.60	649	14.10	0.92	7.2	152.0
558269		7.40	19.55	0.09	3.9	0.030	0.070	0.90	22.7	15.1	2.94	953	2.42	1.74	20.5	142.0
558270		11.25	17.10	0.10	2.7	0.148	0.089	2.37	29.5	24.6	1.40	470	15.40	0.84	5.7	112.0
558271		6.43	25.9	0.20	7.6	0.071	0.124	4.35	48.7	45.1	0.55	116	11.85	0.17	28.1	51.6
558272		6.14	18.60	0.17	6.1	0.110	0.092	2.47	39.1	29.6	0.74	360	11.05	0.92	27.2	64.2
558273		5.59	15.20	0.15	4.2	0.035	0.064	2.20	34.4	30.1	0.92	431	13.55	0.27	19.6	49.5
558274		11.00	21.6	0.10	2.2	0.007	0.055	2.51	20.1	79.9	1.73	660	1.66	0.04	14.9	54.0
558275		10.35	22.2	0.13	2.0	0.013	0.056	3.76	23.0	51.4	1.48	4840	1.29	0.06	10.5	50.3
558276		0.18	0.34	0.07	0.1	<0.005	<0.005	0.02	1.3	1.5	1.48	103	0.06	0.03	0.2	<0.2
558277		8.73	14.15	0.08	3.2	0.400	0.126	1.68	29.3	21.1	0.71	168	12.70	1.04	10.4	71.4
558278		13.65	18.85	0.11	3.1	0.379	0.101	3.03	34.0	25.8	1.13	224	22.1	0.92	7.3	153.5
558279		16.40	16.30	0.13	2.6	0.523	0.121	2.84	36.0	23.9	0.74	132	44.9	0.17	7.1	184.0
558280		14.95	12.15	0.09	1.9	0.533	0.148	2.04	29.6	18.1	1.69	383	67.8	0.08	6.1	196.5



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18233908**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558261		330	36.8	103.5	0.025	7.91	6.15	15.0	6	2.3	58.1	0.38	0.38	6.67	0.163	4.78
558262		410	24.9	121.0	0.020	6.39	5.32	16.3	5	2.1	44.5	0.23	0.16	5.44	0.208	5.29
558263		2890	20.4	52.1	0.014	7.40	3.16	6.6	5	1.0	103.5	0.11	0.25	6.44	0.050	1.79
558264		2840	12.7	96.2	0.019	4.95	1.76	9.1	5	1.6	83.2	0.15	0.25	7.91	0.079	3.34
558265		2200	59.6	54.0	0.099	6.09	7.95	5.9	19	1.2	66.8	0.17	0.41	4.76	0.059	2.07
558266		2130	55.3	44.5	0.079	7.26	7.44	5.6	14	1.6	65.3	0.27	0.34	5.18	0.060	1.95
558267		710	107.0	61.5	0.047	>10.0	10.20	9.4	13	1.4	58.6	0.38	0.70	4.27	0.136	3.01
558268		210	81.9	63.7	0.014	9.25	5.10	13.2	4	1.6	104.0	0.45	0.52	4.72	0.180	3.11
558269		1180	14.0	40.8	<0.002	0.03	1.06	20.1	1	1.7	356	1.12	0.06	5.08	0.930	0.19
558270		330	29.1	61.6	0.013	7.68	2.87	15.9	5	1.5	87.2	0.28	0.29	3.72	0.176	2.72
558271		320	12.7	105.5	0.012	3.51	2.16	16.4	2	3.6	31.7	1.48	0.32	7.95	0.370	3.96
558272		750	13.7	61.4	0.012	3.25	1.78	12.8	2	2.7	45.4	1.36	0.23	6.61	0.270	2.30
558273		750	10.4	57.0	0.011	2.91	2.01	10.8	2	2.1	44.4	1.19	0.21	5.35	0.226	2.09
558274		340	6.8	72.0	0.005	1.52	1.35	14.0	2	1.5	26.2	0.90	0.08	6.37	0.333	1.33
558275		360	6.5	112.5	0.005	1.30	1.40	13.9	2	1.5	34.0	0.70	0.10	7.85	0.309	1.72
558276		70	<0.5	0.8	<0.002	0.01	0.07	0.2	1	<0.2	84.8	<0.05	<0.05	0.10	0.005	0.02
558277		500	27.8	47.0	0.014	7.01	2.61	10.2	4	2.5	54.1	0.55	0.47	4.31	0.170	2.57
558278		360	52.3	71.2	0.027	>10.0	5.59	14.0	8	1.7	89.0	0.42	0.50	4.94	0.205	4.23
558279		340	76.5	77.3	0.046	>10.0	8.74	11.0	9	1.6	55.9	0.38	0.60	5.26	0.128	4.65
558280		470	76.1	59.2	0.053	>10.0	8.29	9.2	9	1.3	100.5	0.33	0.60	4.15	0.107	3.51



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18233908**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
558261		16.8	320	1.4	12.3	1490	174.0
558262		17.1	285	1.8	10.0	376	141.5
558263		7.0	172	0.4	14.0	127	74.1
558264		9.2	250	0.6	14.8	234	88.3
558265		61.5	1120	2.2	26.1	3780	84.6
558266		47.9	1020	2.1	26.6	1960	86.9
558267		29.1	732	3.3	19.3	1520	89.6
558268		10.8	170	1.0	9.6	919	122.5
558269		1.2	148	2.2	19.9	135	149.5
558270		10.7	159	1.1	8.5	700	104.0
558271		11.9	168	2.3	14.7	282	286
558272		11.1	137	1.8	14.8	421	254
558273		8.9	139	1.9	11.3	126	165.5
558274		4.9	208	2.0	6.9	203	80.4
558275		4.3	179	2.2	8.0	190	70.4
558276		0.1	2	0.1	2.2	4	2.0
558277		8.9	134	1.0	10.1	685	121.5
558278		16.1	232	1.6	10.5	980	113.5
558279		23.9	404	1.4	12.0	1360	104.5
558280		27.4	477	1.6	12.8	1570	75.2





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **5-OCT-2018**  
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**CERTIFICAT D'ANALYSE VO18233908**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 5-OCT-2018  
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## CERTIFICAT VO18233911

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Bon de commande #: KANDH18-115

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18233911**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558281		4.57	0.016	0.79	7.40	89.3	210	1.49	0.33	2.57	4.43	69.7	20.3	73	5.16	114.0
558282		3.60	0.004	0.64	9.28	10.0	320	2.65	0.25	1.00	2.68	58.0	20.1	97	6.00	186.0
558283		4.26	0.004	0.19	6.35	2.1	340	2.99	0.11	0.70	0.26	54.1	20.2	89	26.2	31.1
558284		5.31	0.008	0.19	7.06	10.2	490	1.98	0.14	0.89	0.32	51.4	25.7	103	26.4	61.1
558285		3.51	<0.001	0.13	6.07	41.2	380	0.69	0.02	5.25	0.60	18.10	41.1	57	18.35	123.0
558286		4.43	0.002	0.16	6.86	72.5	180	0.58	0.01	4.92	0.29	6.88	50.7	167	1.59	143.0
558287		4.32	0.002	0.22	6.12	68.5	180	0.58	<0.01	5.44	0.33	8.53	44.5	118	1.50	139.0
558288		5.73	0.001	0.22	6.45	66.0	260	0.69	0.01	4.89	0.50	13.85	42.6	123	2.13	125.5
558289		0.07	2.58	0.44	6.99	11.6	330	1.09	0.17	4.89	0.10	43.9	51.7	319	0.71	81.1
558290		3.01	0.004	0.25	8.97	1.3	570	1.82	0.20	0.34	0.51	54.7	19.8	89	6.57	74.2
558291		4.39	0.005	0.26	8.42	1.1	570	1.89	0.22	0.23	0.96	53.8	18.8	84	7.35	61.1
558292		4.79	0.004	0.21	8.46	1.2	480	2.05	0.19	0.19	1.43	55.3	16.7	84	8.17	51.2
558293		2.78	0.005	0.23	8.32	0.9	460	2.04	0.19	0.29	1.48	49.7	16.7	83	7.48	57.4
558294		4.74	<0.001	0.17	6.11	60.6	200	0.70	0.01	5.09	0.35	11.95	36.1	117	2.13	106.0
558295		3.27	0.002	0.28	7.02	0.9	330	2.24	0.17	0.57	0.13	82.5	18.4	89	7.28	78.5
558296		0.32	<0.001	0.01	0.08	0.7	10	0.05	0.01	33.5	0.02	1.11	0.9	2	0.05	1.7
558297		2.73	0.036	1.35	5.59	1.4	250	1.76	0.34	1.61	3.49	85.6	38.3	62	3.86	197.0
558298		3.79	<0.001	0.41	6.24	72.6	160	0.44	0.24	6.06	0.41	8.48	43.9	125	1.47	122.5
558299		4.23	<0.001	0.12	7.21	64.8	320	0.73	0.02	3.88	0.39	17.10	47.7	134	2.68	87.5
558300		4.83	0.009	0.20	8.38	0.9	520	2.13	0.23	0.27	2.21	53.8	16.8	83	7.14	78.4



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 5-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233911**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558281		12.25	20.6	0.10	4.1	0.239	0.096	3.46	40.5	26.1	1.41	274	22.5	0.14	7.0	153.0
558282		11.15	24.5	0.12	4.1	0.079	0.091	4.54	33.0	35.2	0.82	300	17.65	0.17	4.8	130.5
558283		13.50	19.20	0.08	1.9	0.008	0.052	3.67	27.2	49.7	1.70	1620	2.55	0.02	14.1	53.3
558284		10.30	20.1	0.09	2.0	0.012	0.055	4.27	26.2	55.0	1.85	942	3.36	0.03	13.5	64.9
558285		10.05	17.90	0.06	1.7	0.009	0.072	2.76	8.1	46.8	3.12	1320	0.50	0.22	4.5	51.3
558286		10.65	15.95	0.05	1.0	0.007	0.065	1.39	2.5	38.6	3.86	1090	0.20	0.86	2.5	114.5
558287		8.11	14.95	0.05	1.3	<0.005	0.065	1.76	3.2	34.1	3.76	1220	0.24	0.33	2.8	106.0
558288		8.76	16.25	0.05	1.4	0.008	0.064	2.22	5.9	38.5	3.46	1080	0.55	0.04	3.4	102.5
558289		7.62	18.50	0.08	3.4	0.052	0.062	1.01	21.9	9.6	5.65	1070	3.14	2.03	29.3	364
558290		8.83	23.9	0.13	2.5	0.024	0.055	4.29	28.2	53.3	1.57	266	5.57	0.05	8.1	57.8
558291		7.88	22.3	0.11	2.4	0.024	0.056	4.34	28.7	53.6	1.28	241	5.66	0.05	7.6	53.7
558292		6.76	22.8	0.13	2.3	0.026	0.053	4.34	29.1	53.6	1.19	212	4.31	0.05	7.6	50.1
558293		6.88	22.3	0.13	2.2	0.021	0.052	4.38	25.4	49.1	1.16	210	6.67	0.05	7.3	51.5
558294		8.37	15.45	0.09	1.4	0.013	0.056	2.12	4.9	36.5	3.35	1120	0.71	0.17	3.3	95.0
558295		9.71	21.8	0.15	2.8	0.028	0.064	3.65	39.9	47.3	1.41	342	2.76	0.04	21.9	49.9
558296		0.16	0.32	0.06	0.1	<0.005	<0.005	0.02	1.3	1.6	1.70	90	0.09	0.03	0.2	0.6
558297		20.8	18.35	0.11	4.8	0.149	0.128	3.21	45.8	37.8	1.30	586	17.50	0.03	16.3	127.5
558298		8.67	14.75	<0.05	1.3	0.006	0.073	1.68	3.1	37.9	4.26	1440	0.33	0.64	2.5	118.5
558299		9.81	17.40	0.05	2.0	0.010	0.067	2.36	7.5	42.1	3.35	1030	0.87	0.19	4.0	101.0
558300		7.17	21.9	0.11	2.3	0.037	0.050	4.15	28.5	49.5	1.24	223	6.36	0.15	7.3	51.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 5-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233911**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558281		230	48.9	94.6	0.022	>10.0	5.56	13.4	7	2.0	98.6	0.41	0.57	6.11	0.153	4.74
558282		270	19.3	119.5	0.022	6.40	2.04	20.2	5	2.3	69.1	0.25	0.16	5.27	0.198	4.59
558283		320	10.1	189.5	0.007	2.69	1.18	12.6	2	1.3	42.1	0.77	0.08	6.61	0.285	2.15
558284		280	10.1	204	0.007	1.71	1.70	18.7	2	1.2	44.8	0.78	0.06	6.96	0.374	2.50
558285		380	8.4	132.5	0.003	0.26	0.31	37.6	1	0.7	160.5	0.28	<0.05	1.94	0.780	1.73
558286		290	3.8	35.6	0.002	0.18	0.33	43.5	1	0.5	165.0	0.14	<0.05	0.19	0.540	0.31
558287		330	3.1	50.0	0.002	0.04	0.27	38.2	1	0.6	163.5	0.16	<0.05	0.34	0.572	0.39
558288		330	3.6	64.5	0.004	0.20	0.32	38.0	1	0.6	167.5	0.20	<0.05	1.16	0.574	0.46
558289		1940	4.8	31.2	<0.002	0.03	0.41	21.8	<1	1.3	497	1.54	0.07	2.78	1.070	0.07
558290		160	11.5	137.0	0.011	2.17	2.78	14.5	3	1.6	27.5	0.60	0.11	9.93	0.312	1.02
558291		160	13.4	139.5	0.011	2.41	2.79	13.7	3	1.5	26.1	0.56	0.12	9.59	0.286	1.05
558292		160	11.0	148.0	0.011	1.76	2.68	12.8	3	1.6	27.8	0.58	0.10	10.25	0.275	1.13
558293		160	11.8	142.0	0.012	2.01	2.61	12.6	3	1.6	29.4	0.54	0.12	9.33	0.267	1.12
558294		320	4.3	61.3	0.002	0.19	0.41	35.7	1	0.6	214	0.20	<0.05	1.04	0.536	0.47
558295		450	14.3	139.5	0.008	3.41	3.03	13.6	3	1.7	46.8	1.12	0.12	10.15	0.303	1.32
558296		70	0.8	0.6	<0.002	<0.01	0.11	0.3	1	<0.2	83.2	<0.05	<0.05	0.08	0.006	<0.02
558297		260	60.4	98.0	0.023	9.92	7.63	9.7	6	3.1	90.9	0.99	1.04	7.43	0.186	1.20
558298		330	130.0	48.6	0.003	0.37	0.34	38.6	1	0.6	243	0.14	0.30	0.23	0.541	0.46
558299		350	4.8	70.3	0.003	0.37	0.58	38.1	1	0.7	157.5	0.25	<0.05	2.02	0.596	0.62
558300		160	16.7	144.5	0.013	1.89	2.48	12.3	3	1.5	31.1	0.54	0.13	9.80	0.268	1.18



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 5-OCT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233911**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
558281		14.9	231	1.3	11.2	788	150.0
558282		14.6	215	1.5	8.3	429	150.5
558283		5.2	200	1.4	6.7	129	73.7
558284		4.4	235	1.6	6.8	152	76.0
558285		0.5	411	0.5	6.7	150	55.7
558286		0.1	314	0.4	3.8	140	36.0
558287		0.1	296	0.7	5.4	114	45.0
558288		0.6	307	1.0	6.0	143	56.9
558289		0.6	148	3.3	20.8	110	143.0
558290		6.5	274	1.3	8.2	233	88.1
558291		6.0	274	1.3	7.1	211	80.7
558292		5.5	259	1.3	7.2	220	78.7
558293		5.8	281	1.2	6.9	222	76.0
558294		0.5	290	0.5	5.4	144	51.0
558295		7.6	238	1.6	11.5	117	109.0
558296		0.1	2	0.1	2.1	4	1.9
558297		10.1	182	1.0	15.1	608	179.5
558298		0.1	303	0.6	5.1	133	40.2
558299		0.8	329	0.7	5.2	185	61.3
558300		5.5	263	1.4	7.0	235	76.9





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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 13-OCT-2018  
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## CERTIFICAT VO18233913

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Bon de commande #: KANDH18-116

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233913**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558301		4.31	0.023	0.45	7.33	0.8	400	3.25	0.25	0.42	0.18	49.9	19.7	101	6.41	87.6
558302		1.25	0.032	0.93	5.17	0.9	220	2.77	0.37	1.19	0.16	58.8	22.5	125	4.47	109.0
558303		4.51	0.042	0.74	5.38	153.5	250	1.94	0.21	3.43	1.59	60.0	24.1	59	2.46	138.0
558304		4.02	0.019	0.45	8.27	0.8	280	2.19	0.10	0.95	2.17	66.8	12.7	95	3.63	81.7
558305		3.90	0.052	0.68	8.35	1.1	270	1.64	0.14	0.58	4.37	62.3	13.7	121	2.79	101.5
558306		4.31	0.068	1.30	7.62	2.2	250	1.60	0.45	0.49	4.71	78.4	21.3	106	2.95	145.5
558307		4.06	0.062	0.85	6.58	8.0	210	2.27	0.20	0.52	1.93	69.0	33.4	93	3.31	105.5
558308		2.97	0.002	0.14	6.00	5.0	170	2.45	0.10	0.20	0.06	47.7	16.0	79	2.39	25.0
558309		0.07	7.69	1.31	6.08	33.4	310	1.02	0.48	2.94	0.08	30.6	42.6	327	0.67	110.5
558310		3.80	0.007	0.15	5.96	20.4	200	2.77	0.12	0.35	0.11	47.6	17.9	79	2.86	20.0
558311		3.31	0.025	0.38	6.80	28.5	400	4.42	0.15	0.19	0.10	52.3	22.5	123	6.95	48.2
558312		3.73	<0.001	0.26	8.55	21.1	210	1.47	0.17	0.28	1.42	71.7	15.1	110	4.77	99.4
558313		4.12	<0.001	0.23	9.90	11.0	240	1.75	0.13	0.25	1.53	105.0	14.4	124	5.04	114.0
558314		4.30	<0.001	0.24	9.34	6.5	220	1.61	0.10	0.90	1.92	97.9	10.1	131	4.79	131.5
558315		3.89	0.005	0.47	8.97	45.9	200	1.43	0.30	0.41	3.70	47.7	41.9	126	4.46	191.5
558316		0.23	<0.001	0.01	0.08	0.3	20	0.06	0.01	32.7	0.02	1.36	0.7	2	<0.05	1.5
558317		4.62	0.006	0.44	7.00	32.4	190	1.25	0.17	2.62	3.02	70.4	22.0	75	3.48	243
558318		4.54	0.051	0.88	5.53	173.0	100	1.29	0.24	0.44	2.77	78.3	32.4	63	2.90	149.0
558319		5.01	0.033	0.65	5.64	113.5	100	1.43	0.28	1.25	2.17	96.4	24.9	51	3.05	207
558320		4.56	0.037	0.66	5.12	135.5	110	1.31	0.56	0.30	2.56	59.2	36.5	85	3.13	66.0



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233913**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558301		12.05	20.2	0.11	2.2	0.028	0.054	3.51	25.5	54.1	1.45	354	8.75	0.05	10.7	67.4
558302		23.1	16.15	0.15	2.7	0.110	0.051	2.19	27.9	40.1	2.14	2730	13.10	0.02	21.4	81.2
558303		19.15	15.20	0.14	3.3	0.126	0.087	2.62	33.1	28.8	1.91	1180	11.85	0.58	11.2	108.5
558304		12.30	22.2	0.14	4.8	0.123	0.119	4.02	38.1	40.0	0.90	356	9.00	1.06	11.4	74.7
558305		12.20	21.6	0.15	3.9	0.293	0.142	3.45	34.9	36.8	0.72	230	14.90	1.84	12.3	77.2
558306		16.30	20.4	0.16	4.5	0.274	0.150	3.33	42.4	38.2	0.72	206	17.70	1.44	12.9	101.5
558307		17.75	20.2	0.16	3.6	0.116	0.116	3.37	37.5	40.6	1.02	445	16.15	0.52	10.0	105.5
558308		13.30	17.65	0.09	1.6	0.005	0.044	1.92	24.3	45.2	2.07	2210	1.27	0.42	10.2	38.5
558309		5.55	15.10	0.08	2.3	0.170	0.046	1.05	15.8	16.0	3.97	735	5.81	1.19	16.7	246
558310		13.85	16.90	0.09	1.5	0.010	0.048	2.12	24.2	49.1	1.80	2210	1.14	0.02	11.0	40.0
558311		13.55	20.4	0.11	2.4	0.012	0.063	3.98	26.6	58.1	1.04	283	9.58	0.03	16.7	81.4
558312		8.12	22.9	0.12	4.8	0.266	0.123	3.34	39.9	25.8	0.67	568	10.10	0.28	14.2	107.0
558313		8.31	30.3	0.18	9.2	0.331	0.149	4.09	55.6	37.0	0.89	97	10.70	0.24	29.8	108.0
558314		7.89	26.1	0.16	6.1	0.323	0.167	3.96	54.7	21.9	0.84	201	10.60	0.23	22.2	106.5
558315		13.20	24.7	0.13	4.5	0.735	0.270	3.71	24.5	35.5	0.93	140	14.00	0.20	12.2	161.0
558316		0.17	0.27	0.08	0.1	<0.005	<0.005	0.02	1.3	1.0	1.73	94	0.06	0.03	0.2	<0.2
558317		14.05	19.60	0.14	4.8	0.498	0.202	2.97	39.0	23.5	1.72	515	11.95	0.14	15.3	165.0
558318		20.5	17.35	0.18	4.0	0.858	0.131	2.29	42.1	22.8	0.67	131	19.10	0.11	13.6	148.0
558319		17.75	20.0	0.18	5.8	0.610	0.125	2.36	51.5	27.1	1.16	313	17.05	0.11	21.3	140.0
558320		14.55	16.65	0.15	3.0	0.845	0.134	2.13	30.9	23.4	0.57	100	22.6	0.10	9.9	104.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233913**

Description échantillon	Méthode	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	élément	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	unités LDI	ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
558301		260	21.3	132.5	0.014	4.30	3.56	14.6	3	1.6	51.0	0.68	0.20	7.62	0.351	1.10
558302		1190	39.0	87.3	0.019	7.52	6.16	15.8	3	1.4	79.3	1.33	0.33	4.63	0.545	1.01
558303		200	27.5	80.2	0.018	8.83	5.38	10.3	4	2.1	124.5	0.58	0.56	4.81	0.177	1.45
558304		230	16.7	106.5	0.012	6.21	4.17	18.8	3	2.4	55.9	0.61	0.32	5.74	0.271	2.28
558305		370	38.8	92.7	0.022	6.62	8.13	20.5	3	2.6	50.9	0.63	0.54	5.17	0.343	1.89
558306		360	213	95.2	0.029	9.08	12.00	15.6	4	2.6	41.6	0.77	0.94	6.67	0.253	1.96
558307		340	48.9	109.0	0.025	9.87	8.66	13.5	4	2.6	34.8	0.47	0.59	6.61	0.185	1.86
558308		210	9.8	74.2	0.003	2.10	0.85	10.2	1	1.0	29.1	0.59	0.10	5.95	0.213	1.01
558309		1110	9.5	37.2	<0.002	0.08	0.76	21.8	1	0.9	272	0.89	0.22	2.26	0.674	0.18
558310		220	7.4	81.8	0.004	2.45	1.19	10.3	1	1.1	23.6	0.64	0.07	6.07	0.234	0.97
558311		500	18.2	157.5	0.017	5.72	2.98	15.5	2	1.5	18.6	0.98	0.13	5.58	0.467	1.87
558312		350	18.2	74.1	0.011	4.83	2.47	19.4	2	2.4	54.1	0.77	0.22	5.87	0.287	3.14
558313		410	16.4	78.3	0.014	4.54	2.56	21.3	2	3.5	39.4	1.97	0.18	9.23	0.350	3.34
558314		380	12.9	80.4	0.011	4.27	2.51	20.9	3	3.4	43.5	1.48	0.12	7.18	0.317	3.26
558315		460	24.8	64.6	0.019	8.39	5.32	27.1	4	4.4	34.3	0.69	0.40	3.71	0.329	3.15
558316		60	0.6	0.5	<0.002	0.01	0.08	0.2	1	<0.2	78.3	<0.05	<0.05	0.18	0.006	0.02
558317		410	26.6	64.8	0.015	9.01	5.74	17.4	3	3.4	52.7	0.92	0.34	5.65	0.231	2.76
558318		210	93.2	54.5	0.028	>10.0	19.95	8.0	6	2.4	22.3	0.90	1.49	6.83	0.132	3.18
558319		260	64.8	54.2	0.024	>10.0	14.15	7.8	5	3.0	36.5	1.40	1.21	7.99	0.146	2.90
558320		300	71.7	51.3	0.018	>10.0	14.50	11.3	6	3.6	20.6	0.57	1.91	4.86	0.152	2.61



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 13-OCT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233913**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
558301		8.2	274	1.6	8.3	147	82.0
558302		15.2	257	1.4	16.9	151	126.5
558303		10.8	148	1.5	12.8	368	136.5
558304		9.8	153	1.6	13.8	522	186.5
558305		18.1	215	1.6	14.1	1100	163.0
558306		19.0	214	1.4	14.6	1240	180.0
558307		15.2	230	1.5	11.5	527	149.0
558308		3.8	160	0.7	5.9	114	63.4
558309		0.6	144	8.6	14.6	84	96.8
558310		4.0	183	1.0	6.2	100	61.3
558311		12.8	292	2.4	8.7	74	94.1
558312		11.4	152	0.7	13.5	373	190.5
558313		12.9	158	0.8	19.4	503	334
558314		10.9	158	0.9	16.3	616	266
558315		18.4	203	1.1	11.7	1210	176.5
558316		0.1	2	0.3	2.5	4	2.3
558317		13.0	146	0.7	14.5	993	196.0
558318		13.5	181	0.7	13.5	807	160.0
558319		12.5	159	0.8	16.7	631	228
558320		11.2	169	0.9	12.6	725	124.5



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **13-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233913**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 12-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18233915

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Bon de commande #: KANDH18-117

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 12-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233915**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558321		2.75	0.005	0.22	5.45	0.5	290	2.28	0.35	0.59	0.33	47.4	18.8	75	5.98	41.5
558322		2.92	<0.001	0.15	6.66	0.5	550	2.36	0.59	0.07	0.09	51.2	19.2	96	3.71	38.8
558323		4.08	<0.001	0.10	8.24	10.7	690	2.26	0.92	0.35	0.12	52.6	21.3	126	6.82	20.6
558324		4.41	<0.001	0.02	7.74	6.6	730	1.76	0.21	1.14	0.14	56.6	20.7	97	7.10	59.0
558325		4.71	<0.001	0.04	5.31	6.2	290	0.94	0.09	3.22	0.22	34.6	21.6	82	7.43	94.4
558326		0.62	<0.001	0.04	8.12	30.8	560	1.33	0.03	0.64	0.07	7.17	50.8	175	12.60	95.1
558327		3.96	<0.001	0.06	7.14	37.7	210	0.49	0.02	5.78	0.17	8.78	45.8	133	1.80	107.0
558328		4.68	<0.001	0.09	6.53	33.1	70	0.34	0.01	5.24	0.13	7.16	45.7	115	4.97	136.0
558329		0.07	0.662	0.22	7.27	20.0	330	1.26	0.14	4.41	0.22	51.9	41.8	189	1.99	54.4
558330		4.47	<0.001	0.13	6.96	39.2	60	0.38	0.02	5.05	0.18	7.99	46.3	121	4.71	169.0
558331		3.15	<0.001	0.11	7.69	32.7	170	0.75	0.11	2.54	0.14	33.5	42.3	112	3.85	237
558332		3.62	<0.001	0.18	8.23	7.1	650	1.75	0.04	0.14	0.14	58.8	14.4	88	11.05	55.5
558333		4.69	<0.001	0.08	8.30	7.7	650	1.86	0.26	0.16	0.05	62.0	14.7	90	11.10	47.0
558334		4.44	<0.001	0.16	8.70	3.2	590	2.17	0.29	0.11	0.12	63.1	8.4	77	13.00	32.8
558335		4.48	<0.001	0.10	8.34	1.0	540	1.88	0.22	0.51	0.06	48.7	9.4	81	11.45	56.8
558336		0.27	<0.001	<0.01	0.11	<0.2	20	0.10	0.01	31.7	<0.02	1.81	0.6	2	0.25	1.7
558337		4.61	<0.001	0.21	6.78	40.8	300	0.95	0.07	3.50	0.54	34.2	30.7	112	12.90	115.5
558338		4.35	0.006	0.34	7.82	0.9	490	1.90	0.22	0.30	0.12	61.0	11.7	84	10.50	72.8
558339		4.59	0.004	0.35	7.63	0.9	530	2.13	0.19	0.59	0.15	68.9	13.2	85	9.45	92.5
558340		4.48	0.001	0.18	7.56	5.4	550	1.92	0.11	0.86	0.10	65.5	11.2	78	9.25	49.1



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 12-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233915**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558321		14.35	15.75	0.07	1.6	0.041	0.047	2.08	24.2	40.2	2.19	3620	4.73	0.01	12.1	53.5
558322		10.45	19.70	0.09	2.1	0.017	0.057	2.97	25.3	46.4	2.01	1360	2.48	0.02	14.1	53.4
558323		7.83	19.60	0.12	2.4	0.013	0.057	4.23	25.0	59.5	2.93	2750	1.39	0.03	7.7	55.6
558324		8.79	19.55	0.11	2.2	<0.005	0.073	3.65	27.9	47.6	2.46	2290	1.42	0.21	7.7	45.9
558325		8.69	14.15	0.08	1.5	0.012	0.041	2.15	17.2	45.7	3.60	1960	1.35	0.15	5.8	47.8
558326		12.15	19.70	0.09	2.1	0.011	0.086	4.60	2.4	69.2	4.54	822	0.24	0.52	4.4	120.0
558327		9.05	17.00	0.06	1.1	0.012	0.077	1.02	3.2	39.5	3.88	1430	0.32	1.12	3.3	95.0
558328		8.58	14.70	0.05	0.5	0.014	0.064	1.22	2.5	40.1	4.40	1370	0.21	1.33	2.7	143.0
558329		7.31	18.85	0.09	3.6	0.024	0.072	0.88	23.3	14.4	2.90	935	2.42	1.71	19.8	143.5
558330		9.05	15.70	0.05	0.7	0.018	0.078	1.10	2.9	40.0	4.57	1420	0.25	1.29	2.8	138.5
558331		9.86	19.20	0.09	1.5	0.018	0.043	1.19	15.0	39.2	3.44	2170	0.50	1.91	6.0	87.5
558332		6.83	21.1	0.11	3.1	0.014	0.046	4.35	28.1	50.7	1.70	1820	0.97	0.37	8.7	35.0
558333		6.25	21.3	0.11	3.4	0.006	0.052	4.75	28.3	51.6	1.30	1620	0.86	0.30	9.5	33.8
558334		5.02	22.6	0.13	2.4	0.006	0.045	5.08	33.8	54.4	1.35	708	0.23	0.79	8.0	28.0
558335		6.62	20.6	0.11	2.0	0.007	0.048	4.71	25.1	56.8	1.69	882	0.35	0.15	6.9	29.3
558336		0.16	0.64	0.06	0.1	<0.005	<0.005	0.04	1.6	2.1	1.60	96	0.07	0.04	0.5	0.9
558337		8.35	15.85	0.08	1.4	0.011	0.058	3.72	17.2	51.2	2.89	1640	0.46	0.30	4.1	71.3
558338		6.92	19.60	0.10	2.0	0.009	0.046	4.34	32.6	47.0	1.42	260	1.87	0.80	6.8	44.8
558339		6.88	19.75	0.13	2.0	0.012	0.047	4.55	36.7	51.3	1.49	294	1.87	0.39	6.8	43.5
558340		4.76	19.00	0.10	3.4	0.012	0.043	4.23	35.8	50.4	1.56	392	1.43	0.75	6.4	31.6





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 12-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18233915**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558321		270	16.2	67.8	0.007	2.93	1.45	9.5	2	1.6	22.6	0.75	0.12	6.14	0.247	0.60
558322		260	12.0	68.8	0.006	2.08	1.05	13.0	3	1.5	8.5	0.95	0.18	8.25	0.321	0.40
558323		360	13.7	91.0	0.003	0.30	0.42	21.9	1	1.5	12.8	0.58	0.69	7.04	0.457	0.59
558324		300	3.2	96.1	0.003	0.32	0.35	14.4	1	2.2	24.0	0.58	<0.05	8.71	0.335	0.50
558325		280	3.9	73.0	0.003	0.36	0.18	17.9	1	0.5	64.4	0.40	<0.05	3.75	0.335	0.42
558326		480	1.1	71.1	<0.002	0.21	0.33	45.2	1	0.7	16.1	0.27	<0.05	0.38	0.807	0.91
558327		370	2.3	16.3	0.002	0.11	0.30	42.6	1	0.5	113.0	0.20	<0.05	0.26	0.690	0.12
558328		340	4.2	33.2	<0.002	0.05	0.44	37.6	1	0.6	96.7	0.18	<0.05	0.18	0.579	0.25
558329		1160	14.6	40.0	<0.002	0.02	1.00	18.3	<1	1.8	354	1.15	<0.05	5.08	0.909	0.19
558330		360	7.6	44.7	<0.002	0.08	0.40	39.0	<1	0.5	98.8	0.18	<0.05	0.22	0.643	0.23
558331		300	2.8	24.9	<0.002	0.45	0.39	26.2	2	0.7	66.0	0.43	<0.05	4.66	0.474	0.21
558332		170	3.3	139.0	<0.002	0.03	0.57	11.2	1	1.7	15.9	0.70	<0.05	10.00	0.309	0.62
558333		180	11.2	143.0	0.002	0.17	0.75	11.2	1	2.0	17.5	0.74	<0.05	11.10	0.319	0.65
558334		180	34.7	166.5	<0.002	0.05	0.70	10.1	<1	1.6	22.4	0.60	0.09	12.55	0.288	0.79
558335		290	11.0	141.0	0.002	0.18	0.71	11.1	1	1.5	32.7	0.54	0.12	9.82	0.285	0.73
558336		50	0.5	3.0	<0.002	<0.01	0.08	0.4	1	<0.2	76.5	0.07	<0.05	0.27	0.006	0.02
558337		420	6.4	163.5	0.002	0.48	0.50	23.4	1	1.0	200	0.30	<0.05	4.78	0.390	1.06
558338		160	14.4	173.0	0.007	2.17	2.16	11.4	2	1.5	40.4	0.51	0.16	11.40	0.260	0.93
558339		1060	22.2	181.0	0.007	2.35	2.04	12.0	3	1.5	66.8	0.52	0.17	11.45	0.273	0.92
558340		720	8.5	173.0	0.004	1.17	0.94	10.5	2	1.3	98.2	0.44	0.11	11.70	0.271	0.96



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 12-OCT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233915**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
558321		5.0	202	1.3	7.4	102	65.3
558322		5.0	208	2.5	8.6	126	80.2
558323		2.2	205	2.6	8.4	108	86.7
558324		2.1	140	1.6	8.2	139	80.1
558325		1.7	184	0.4	9.2	49	56.8
558326		0.3	430	0.6	5.3	97	75.2
558327		0.1	371	0.7	17.8	86	40.0
558328		0.1	310	0.6	19.8	92	17.6
558329		1.1	148	2.1	20.7	129	150.5
558330		0.1	334	0.6	21.7	98	22.0
558331		1.0	229	0.6	15.5	81	58.3
558332		2.2	82	1.4	11.7	56	111.5
558333		2.5	89	1.2	11.8	85	129.0
558334		1.3	66	1.1	7.9	92	82.8
558335		1.4	79	0.9	6.7	75	73.9
558336		0.3	1	<0.1	2.3	3	2.4
558337		1.0	187	0.5	7.3	119	50.4
558338		2.7	126	0.8	6.7	103	72.6
558339		4.7	126	0.9	11.0	104	75.8
558340		3.5	109	0.8	9.1	81	127.0



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **12-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233915**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 5-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18233917

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Bon de commande #: KANDH18-118

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 5-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233917**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558341		4.43	<0.001	0.18	7.52	4.8	550	1.75	0.11	1.00	0.17	68.3	10.7	78	8.33	43.2
558342		4.20	0.002	0.45	7.76	1.1	740	1.63	0.23	0.26	0.72	63.6	12.0	83	4.08	57.0
558343		4.74	<0.001	0.19	7.61	17.5	620	1.27	0.08	2.34	0.31	54.7	20.8	90	5.36	63.8
558344		4.42	<0.001	0.21	8.15	2.6	770	1.58	0.10	1.11	0.59	68.8	10.3	72	4.16	38.9
558345		4.77	0.001	0.14	7.36	28.4	580	1.11	0.05	4.46	0.30	40.4	26.0	104	4.86	71.8
558346		4.82	<0.001	0.19	7.77	4.5	700	1.50	0.11	1.16	0.31	63.5	12.0	75	5.45	44.6
558347		4.24	0.001	0.19	7.76	2.0	480	1.97	0.15	0.50	0.15	62.2	10.2	78	8.83	56.7
558348		4.49	<0.001	0.09	9.32	0.2	460	2.28	0.18	0.10	0.03	68.0	10.1	82	7.39	32.0
558349		0.07	2.53	0.43	6.81	11.3	320	1.16	0.14	4.82	0.09	43.9	51.8	319	0.66	80.6
558350		4.69	0.001	0.09	9.31	4.2	420	2.32	0.17	0.20	<0.02	69.5	10.7	80	8.44	29.1
558351		4.82	0.006	0.16	8.85	5.3	490	2.21	0.19	0.16	1.47	62.3	13.1	85	7.46	45.4
558352		4.44	<0.001	0.09	7.09	17.9	210	0.79	<0.01	4.06	0.13	17.25	37.3	127	1.67	119.5
558353		4.72	<0.001	0.12	6.74	1.0	30	0.37	0.01	6.50	0.18	8.35	48.3	122	3.79	169.0
558354		4.80	<0.001	0.07	7.01	5.8	20	0.31	<0.01	6.63	0.15	7.61	52.1	122	1.37	153.5
558355		4.59	0.016	0.07	6.84	4.4	30	0.37	<0.01	6.23	0.11	8.48	48.2	134	3.13	155.0
558356		0.28	<0.001	1.52	0.26	0.4	30	0.10	<0.01	34.0	<0.02	0.94	1.2	4	0.05	1.9
558357		4.78	0.002	0.10	5.07	7.3	180	1.27	0.02	4.19	0.11	30.4	20.8	94	1.92	70.0
558358		2.20	0.001	0.01	0.65	2.9	20	0.68	<0.01	4.18	0.03	11.65	7.5	20	0.24	4.6
558359		2.49	0.001	0.02	0.70	9.2	30	0.55	<0.01	3.22	0.04	14.45	6.9	20	0.25	3.0
558360		3.38	<0.001	0.11	6.24	15.1	360	1.56	0.04	2.74	0.06	25.4	32.6	114	2.13	95.4



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 5-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233917**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558341		4.20	19.40	0.15	3.8	0.009	0.043	4.06	36.9	44.2	1.45	353	1.93	1.00	6.0	30.3
558342		4.10	19.15	0.16	4.2	0.032	0.045	4.24	34.1	44.3	1.05	103	6.08	0.32	4.2	50.7
558343		4.92	17.65	0.15	3.5	0.028	0.048	4.19	28.9	38.0	1.87	709	3.71	0.81	3.7	77.7
558344		3.31	19.85	0.16	4.6	0.028	0.043	4.36	37.3	40.5	1.33	376	4.07	0.61	5.3	38.3
558345		5.58	18.00	0.10	2.9	0.020	0.052	3.87	20.4	40.1	2.10	1280	2.34	0.70	3.7	77.9
558346		3.68	18.90	0.14	4.1	0.014	0.048	4.31	34.2	40.1	1.39	358	3.10	0.52	4.4	44.7
558347		6.43	19.40	0.11	2.4	0.010	0.046	3.78	34.5	42.9	1.43	311	1.70	1.10	6.0	34.3
558348		5.49	24.2	0.15	2.1	<0.005	0.051	4.83	36.3	42.2	1.14	389	0.33	0.44	7.8	32.3
558349		7.55	18.00	0.12	3.2	0.048	0.055	1.00	22.0	9.6	5.58	1050	2.92	2.01	28.4	361
558350		5.08	25.6	0.15	2.2	<0.005	0.045	4.79	36.3	43.3	1.09	287	0.32	0.31	8.1	34.2
558351		5.51	23.4	0.14	2.3	0.037	0.050	4.58	32.4	42.1	1.13	378	2.49	0.22	7.4	43.0
558352		9.15	17.50	0.09	1.4	0.010	0.064	1.10	7.6	39.1	3.56	1480	1.61	0.92	4.3	91.5
558353		8.92	15.75	0.07	0.7	0.018	0.067	0.53	3.1	37.2	4.32	1440	0.35	1.38	2.7	121.0
558354		9.19	16.15	0.07	0.7	0.023	0.071	0.21	2.7	25.8	4.95	1510	0.26	1.81	2.7	193.0
558355		9.16	16.45	0.08	0.9	0.024	0.080	0.43	3.1	38.5	4.33	1450	0.26	1.52	2.9	111.0
558356		0.24	0.70	0.05	0.1	<0.005	<0.005	0.06	1.0	1.8	1.55	104	0.09	0.10	0.2	2.7
558357		13.60	13.95	<0.05	1.3	0.008	0.042	0.86	13.7	27.3	3.50	5530	1.41	0.18	8.1	50.4
558358		19.05	2.72	<0.05	0.5	<0.005	0.010	0.12	6.3	4.6	3.45	13050	0.79	0.01	4.8	9.6
558359		20.5	2.93	<0.05	0.6	<0.005	0.015	0.18	7.7	5.3	3.39	13150	0.66	0.01	4.8	9.1
558360		10.90	16.50	<0.05	1.4	0.021	0.052	0.94	11.0	42.1	3.81	974	2.11	0.44	5.5	70.6



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 5-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233917**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558341		1300	17.5	154.0	0.002	1.14	1.01	10.3	2	1.3	124.5	0.36	0.08	12.30	0.250	0.83
558342		200	65.5	136.0	0.008	1.72	2.23	8.8	3	1.3	44.5	0.24	0.18	13.65	0.225	0.64
558343		350	12.3	149.0	0.006	1.27	1.16	15.9	2	1.0	221	0.24	0.06	9.74	0.314	0.82
558344		280	27.6	144.0	0.004	1.17	1.25	10.1	2	1.3	114.0	0.36	0.07	14.15	0.255	0.70
558345		320	8.8	111.5	0.003	0.88	0.81	23.1	1	0.9	316	0.24	<0.05	7.08	0.411	0.80
558346		260	24.0	151.5	0.006	0.98	1.17	11.8	2	1.2	125.5	0.29	0.06	12.60	0.260	0.77
558347		520	20.6	167.0	0.003	1.18	1.13	9.7	2	1.3	67.6	0.47	0.13	12.00	0.257	0.93
558348		210	14.7	181.0	<0.002	0.32	0.57	10.9	1	1.6	39.9	0.62	0.10	13.15	0.298	0.77
558349		1870	5.3	31.8	<0.002	0.03	0.32	21.5	1	1.2	483	1.57	0.09	2.80	1.045	0.06
558350		240	14.3	176.5	<0.002	0.22	0.63	11.1	1	1.6	43.7	0.62	0.06	13.70	0.305	0.90
558351		200	13.7	154.5	0.004	1.00	1.93	11.3	2	1.5	30.9	0.60	0.09	12.10	0.281	0.79
558352		350	2.6	18.2	0.004	0.17	0.66	33.3	1	0.9	99.1	0.31	<0.05	2.27	0.579	0.20
558353		340	9.1	33.9	0.002	0.14	1.08	40.4	1	0.6	144.0	0.17	<0.05	0.38	0.628	0.38
558354		340	2.5	10.2	0.002	0.11	2.77	39.5	1	0.5	184.5	0.17	<0.05	0.23	0.594	0.14
558355		370	3.8	22.7	<0.002	0.10	1.18	42.5	1	0.6	124.0	0.19	<0.05	0.24	0.626	0.29
558356		70	1.2	1.6	<0.002	<0.01	0.08	0.7	1	<0.2	82.0	<0.05	<0.05	0.10	0.011	<0.02
558357		390	3.7	28.3	0.003	0.65	0.67	19.2	1	0.7	69.6	0.52	<0.05	3.38	0.373	0.23
558358		430	1.7	3.4	<0.002	0.15	0.19	2.0	1	0.2	52.2	0.27	<0.05	0.82	0.089	0.06
558359		460	1.6	4.8	<0.002	0.18	0.14	2.1	1	0.2	44.6	0.31	0.05	0.97	0.092	0.09
558360		310	2.6	22.5	0.007	1.02	0.20	29.0	1	0.7	63.4	0.36	<0.05	2.70	0.437	0.18



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 5-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18233917**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
558341	0.1	3.8	83	0.8	11.0	84	132.0
558342	0.1	3.7	109	0.8	7.2	92	151.5
558343	0.1	2.8	164	0.5	7.3	98	127.5
558344	0.1	3.6	113	0.7	7.7	93	169.0
558345	0.1	2.1	210	0.5	7.6	116	108.5
558346	0.1	3.7	123	0.7	8.5	79	151.0
558347	0.1	3.1	100	0.8	7.6	95	85.9
558348	0.1	2.1	75	1.5	6.9	79	73.5
558349	0.1	0.6	146	3.2	20.6	110	138.5
558350	0.1	2.1	79	1.5	7.1	74	81.6
558351	0.1	3.7	171	1.2	6.8	211	77.7
558352	0.1	0.7	285	0.5	13.9	106	54.3
558353	0.1	0.1	321	0.1	20.3	106	20.6
558354	0.1	0.1	308	0.1	20.7	97	20.0
558355	0.1	0.1	329	0.1	21.6	97	21.2
558356	0.1	0.2	5	0.1	2.3	5	2.7
558357	0.1	2.2	218	0.7	10.5	79	54.9
558358	0.1	0.4	56	0.3	5.4	17	21.7
558359	0.1	0.6	50	0.2	5.7	21	23.1
558360	0.1	1.8	285	0.8	8.5	75	50.2





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
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Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18233917**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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## CERTIFICAT VO18236841

Projet: Kan

Bon de commande #: KANDH18-RUSH-056

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 21-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 3-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18236841**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555861		2.38	<0.001	0.05	0.06	0.9	10	0.34	0.01	5.76	0.02	8.66	1.3	16	<0.05	3.1
555862		2.29	0.002	0.12	0.06	1.1	<10	0.23	0.02	4.57	0.03	9.67	2.4	24	<0.05	8.4
555863		2.28	<0.001	0.15	0.04	1.8	<10	0.20	0.02	1.93	0.03	4.00	2.4	17	0.06	10.0
555864		2.30	<0.001	0.11	0.07	1.9	10	0.32	0.02	2.40	0.02	4.20	2.3	16	<0.05	6.2
555865		2.39	<0.001	0.15	0.19	0.4	10	0.34	0.02	5.37	0.03	10.85	3.8	16	0.08	15.1
555866		0.19	<0.001	<0.01	0.04	<0.2	10	<0.05	0.36	31.7	<0.02	0.83	0.6	3	<0.05	1.6
555867		2.31	<0.001	0.12	3.58	425	210	3.13	0.07	4.25	0.06	140.0	119.0	882	1.34	147.0
555868		2.64	<0.001	0.02	0.49	1.0	10	0.27	0.02	3.96	0.03	11.60	6.9	40	0.05	17.6
555869		2.89	<0.001	0.04	0.49	1.0	<10	0.89	0.03	1.63	0.02	16.40	7.4	16	<0.05	5.8
555870		2.36	<0.001	0.02	0.34	0.5	<10	0.82	0.02	1.63	<0.02	12.70	5.8	12	<0.05	4.6
555871		2.42	<0.001	0.11	0.83	1.1	10	0.73	0.06	1.26	0.04	16.75	9.6	22	<0.05	11.0
555872		2.90	<0.001	0.32	0.80	1.1	<10	0.30	0.05	1.73	0.04	15.75	9.1	24	0.10	35.9
555873		1.75	<0.001	0.19	0.13	0.5	<10	0.11	0.05	3.91	0.11	13.95	3.2	16	<0.05	21.9
555874		2.40	<0.001	0.07	0.26	3.2	<10	0.08	0.02	3.18	0.09	5.77	2.5	16	<0.05	6.1
555875		2.44	<0.001	0.05	0.50	1.5	<10	0.24	0.02	8.22	0.17	11.75	5.4	18	0.07	6.8
555876		2.48	<0.001	0.03	0.57	1.1	<10	0.65	0.02	2.18	0.06	14.35	7.8	18	0.05	3.2
555877		2.24	<0.001	0.04	0.81	3.6	30	0.94	0.02	1.38	0.04	16.65	8.0	21	1.06	5.4
555878		2.55	<0.001	0.07	0.83	3.7	20	1.82	0.02	1.42	0.05	14.95	8.3	22	1.06	7.2
555879		0.06	7.77	1.28	5.99	34.9	300	0.90	0.53	2.91	0.07	30.1	41.4	321	0.70	108.0
555880		2.18	<0.001	0.11	0.75	6.6	20	0.56	0.03	0.73	0.04	12.55	10.1	24	0.95	8.8



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
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 Finalisée date: 3-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18236841**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
555861		12.70	0.54	0.08	0.1	<0.005	<0.005	0.01	4.8	2.0	4.09	2270	0.23	<0.01	1.0	7.4
555862		10.10	0.63	0.06	0.1	<0.005	0.005	0.01	5.3	2.1	3.18	2080	0.72	<0.01	1.6	14.6
555863		9.91	0.30	0.06	<0.1	0.008	0.005	0.01	2.4	1.1	2.11	1660	0.72	<0.01	0.3	12.8
555864		9.93	0.46	0.05	0.1	<0.005	<0.005	0.01	2.7	1.7	2.34	1810	0.45	<0.01	0.4	11.8
555865		11.50	1.23	0.06	0.1	0.005	0.008	0.03	5.8	4.2	3.69	2990	0.61	<0.01	1.8	24.3
555866		0.17	0.20	0.08	<0.1	<0.005	<0.005	0.01	1.0	0.7	1.69	89	0.07	0.02	0.1	1.6
555867		14.60	12.65	0.17	3.2	0.013	0.050	0.69	78.5	77.5	4.10	2980	6.14	0.02	19.1	555
555868		16.00	2.82	0.09	0.3	<0.005	0.013	0.02	6.1	9.4	3.10	8430	0.82	<0.01	2.6	20.3
555869		21.2	2.50	0.10	0.4	<0.005	0.012	<0.01	9.3	9.5	2.67	11750	0.97	<0.01	3.5	9.4
555870		19.55	1.79	0.10	0.3	<0.005	0.009	<0.01	6.4	7.2	2.77	10750	0.51	<0.01	3.1	7.4
555871		22.5	4.57	0.09	0.7	<0.005	0.021	<0.01	9.2	22.1	3.01	17400	0.74	<0.01	4.6	13.9
555872		18.75	4.12	0.07	0.7	0.008	0.022	0.04	8.7	18.7	2.93	13600	1.54	<0.01	3.4	41.2
555873		10.15	0.73	0.06	0.2	0.008	0.018	<0.01	8.0	3.7	2.94	2910	1.16	<0.01	3.1	8.3
555874		8.79	1.57	<0.05	<0.1	0.006	0.015	0.01	3.3	9.0	2.24	3300	0.43	<0.01	0.2	4.6
555875		16.60	2.97	0.06	0.3	0.007	0.019	0.01	6.8	14.0	4.82	8540	0.55	0.01	1.6	6.4
555876		20.9	3.21	0.07	0.5	<0.005	0.015	0.02	7.7	10.5	2.89	13150	0.57	0.01	4.3	8.8
555877		20.8	4.38	0.07	0.7	<0.005	0.018	0.12	9.2	13.3	3.09	16950	0.58	<0.01	6.3	11.3
555878		19.60	4.42	0.07	0.7	<0.005	0.017	0.05	8.1	12.0	2.99	16300	0.75	<0.01	5.7	13.4
555879		5.47	15.70	0.08	2.6	0.171	0.044	1.02	15.2	15.5	3.89	738	6.17	1.16	15.8	241
555880		17.55	4.08	0.07	0.6	<0.005	0.017	0.05	6.8	13.9	2.86	14350	0.70	<0.01	5.2	14.8



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18236841**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555861		180	1.0	0.6	<0.002	0.24	0.09	0.3	<1	<0.2	45.1	0.05	<0.05	0.20	0.008	0.02
555862		220	3.8	0.4	<0.002	0.26	0.39	0.5	1	<0.2	39.6	0.07	<0.05	0.32	0.017	0.02
555863		180	0.9	0.5	<0.002	0.85	0.09	0.1	<1	<0.2	13.6	<0.05	<0.05	0.06	<0.005	0.03
555864		120	1.2	0.7	<0.002	0.29	0.12	0.2	1	<0.2	18.7	<0.05	<0.05	0.10	<0.005	0.03
555865		200	1.1	1.9	<0.002	0.14	0.08	0.5	<1	<0.2	39.3	0.06	<0.05	0.61	0.012	0.06
555866		50	<0.5	0.3	<0.002	<0.01	0.11	0.2	<1	<0.2	75.3	<0.05	<0.05	0.06	<0.005	<0.02
555867		2380	3.1	32.1	0.002	0.47	0.30	21.0	2	1.3	52.5	1.17	0.07	9.30	0.354	0.87
555868		310	1.1	1.2	<0.002	0.13	0.08	1.5	1	<0.2	37.9	0.15	<0.05	0.58	0.057	0.04
555869		520	0.9	0.2	<0.002	0.13	0.07	1.3	1	<0.2	20.0	0.17	<0.05	0.68	0.055	<0.02
555870		460	0.7	0.1	<0.002	0.07	0.08	0.9	<1	<0.2	23.7	0.16	<0.05	0.52	0.042	<0.02
555871		600	1.9	0.1	<0.002	0.17	0.15	2.8	1	<0.2	22.9	0.31	0.06	1.01	0.118	<0.02
555872		480	3.8	1.3	<0.002	2.41	0.35	2.5	1	<0.2	45.8	0.20	0.09	0.94	0.055	0.07
555873		270	2.9	0.2	<0.002	1.17	0.20	0.6	1	<0.2	57.5	0.20	0.10	0.47	0.015	0.02
555874		150	1.3	0.3	<0.002	0.69	0.06	0.6	1	<0.2	42.8	<0.05	<0.05	0.17	<0.005	0.02
555875		570	2.2	0.7	<0.002	0.52	0.14	1.3	1	<0.2	86.6	0.08	<0.05	0.51	0.024	0.02
555876		460	1.5	0.5	<0.002	0.14	0.09	1.9	1	<0.2	28.2	0.25	<0.05	0.81	0.073	0.02
555877		520	1.2	7.0	<0.002	0.15	0.08	2.8	<1	0.2	33.6	0.37	<0.05	1.01	0.124	0.18
555878		500	1.3	4.7	<0.002	0.22	0.10	2.7	1	0.2	33.3	0.32	<0.05	0.96	0.118	0.19
555879		1040	9.9	38.3	<0.002	0.08	0.79	20.5	1	1.0	269	0.93	0.21	2.44	0.650	0.20
555880		430	0.8	4.6	<0.002	0.23	0.06	2.5	1	0.2	25.6	0.27	0.05	0.80	0.097	0.19



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18236841**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
555861		0.4	6	0.3	5.2	7	3.6
555862		0.8	8	0.7	4.9	12	6.3
555863		0.6	5	0.6	2.8	12	2.3
555864		1.2	5	0.8	3.3	10	3.1
555865		0.7	16	1.5	4.9	12	6.8
555866		0.2	1	0.1	1.9	3	1.2
555867		1.6	192	1.3	15.3	69	132.5
555868		0.5	37	0.6	4.9	19	15.4
555869		0.5	39	0.4	6.0	14	18.7
555870		0.2	25	0.4	5.2	10	15.4
555871		0.7	74	0.7	7.0	32	30.7
555872		1.0	66	0.5	5.4	41	29.5
555873		0.8	10	0.3	4.8	25	8.4
555874		0.7	18	0.1	3.9	27	2.4
555875		0.5	36	0.2	7.8	48	14.0
555876		0.5	46	0.3	6.5	29	22.7
555877		0.7	74	0.4	6.8	27	31.6
555878		0.8	75	0.3	6.4	26	29.5
555879		0.6	140	9.6	15.0	82	99.2
555880		0.5	67	0.4	5.4	25	27.0



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **3-OCT-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18236841**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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Projet: Kan

Bon de commande #: KANDH18-RUSH-057

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 21-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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À: **MINIÈRE OSISKO INC.**  
**300, RUE ST-PAUL**  
**BUREAU 200**  
**QUEBEC QC G1K 7R1**

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 Finalisée date: 3-OCT-2018  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18236845**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555881		2.20	0.001	0.15	1.26	9.8	10	3.81	0.02	1.13	0.06	26.6	10.8	31	0.13	8.1
555882		2.19	<0.001	0.09	1.35	0.5	20	0.41	0.02	0.93	0.10	20.7	8.7	33	0.30	33.3
555883		1.34	0.001	0.14	0.16	4.0	<10	0.14	0.04	3.30	0.03	8.91	3.6	16	0.14	34.0
555884		2.35	<0.001	0.04	0.08	8.7	<10	0.18	0.01	4.41	0.02	5.62	1.8	13	0.07	2.0
555885		2.37	<0.001	0.02	0.30	43.8	10	0.31	0.02	5.38	0.04	11.30	10.0	57	0.77	2.1
555886		0.24	<0.001	<0.01	0.06	<0.2	20	<0.05	0.01	32.5	<0.02	1.01	0.5	2	<0.05	0.8
555887		2.17	<0.001	0.02	0.48	2.1	10	0.85	0.03	1.75	0.03	11.90	7.2	16	0.23	5.3
555888		2.69	<0.001	0.03	0.60	9.2	10	1.04	0.02	2.27	0.03	13.65	7.7	17	0.32	6.9
555889		2.44	<0.001	0.04	0.71	3.9	40	2.02	0.02	1.31	0.05	15.10	7.7	20	14.15	10.5
555890		2.50	<0.001	0.04	0.81	12.9	60	1.15	0.02	0.92	0.05	17.05	8.1	21	20.8	9.7
555891		2.43	0.002	0.05	0.80	4.2	20	1.42	0.02	1.07	0.03	14.65	8.9	20	4.68	9.9
555892		2.33	0.002	0.03	0.73	3.0	10	2.47	0.02	1.33	0.04	12.60	7.5	21	3.56	9.6
555893		2.50	0.001	0.03	0.77	6.1	20	1.36	0.05	1.18	0.10	14.70	9.0	21	3.12	9.9
555894		2.48	0.005	0.04	0.75	2.5	20	0.99	0.02	1.19	0.10	13.00	9.0	20	2.20	8.2
555895		1.99	<0.001	0.04	0.46	0.8	10	0.60	0.01	1.11	0.14	11.00	6.5	15	0.47	5.3
555896		1.64	<0.001	0.04	1.24	0.7	40	0.56	0.05	1.99	0.12	15.80	12.4	30	7.50	15.9
555897		2.55	<0.001	0.02	0.60	0.9	10	0.85	0.02	2.50	0.02	13.10	7.5	17	1.41	5.2
555898		2.48	<0.001	0.01	0.59	1.5	20	1.08	0.04	2.59	<0.02	13.70	8.4	17	1.33	9.8
555899		0.06	0.503	0.21	7.29	19.9	330	1.60	0.14	4.32	0.20	52.7	44.7	191	2.02	58.5
555900		2.39	<0.001	0.01	0.59	11.1	10	0.57	0.02	1.45	0.02	16.10	8.8	18	0.53	8.8



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Page: 2 – B  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18236845**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555881		20.2	6.22	0.08	0.9	<0.005	0.021	0.04	15.2	19.4	2.64	27500	2.12	0.01	7.1	18.3
555882		16.60	6.29	0.07	1.1	0.007	0.024	0.22	11.5	19.7	2.24	27500	1.39	0.02	4.8	28.9
555883		10.10	1.28	<0.05	0.1	0.005	0.005	0.02	5.5	3.6	2.33	1600	2.93	<0.01	0.9	22.1
555884		9.05	0.63	<0.05	0.1	<0.005	<0.005	0.01	3.5	2.0	2.98	1840	0.52	<0.01	0.6	4.8
555885		11.65	1.69	<0.05	0.2	<0.005	0.005	0.08	6.7	6.5	3.60	3490	1.27	<0.01	3.1	24.9
555886		0.19	0.23	0.11	<0.1	<0.005	<0.005	0.01	1.1	0.9	1.68	115	0.05	0.03	0.1	0.3
555887		21.1	2.54	0.06	0.4	<0.005	0.012	0.03	6.5	5.0	2.86	12850	0.95	<0.01	3.7	8.5
555888		21.3	3.21	0.07	0.5	0.006	0.012	0.03	7.4	5.7	3.19	13450	0.43	<0.01	5.2	9.9
555889		18.95	3.69	0.08	0.6	0.005	0.017	0.34	8.2	4.8	3.13	15800	0.75	0.07	5.6	11.3
555890		20.8	4.55	0.07	0.7	<0.005	0.018	0.43	9.5	4.7	3.54	15450	0.77	0.10	5.9	13.7
555891		20.6	4.16	0.08	0.6	<0.005	0.013	0.15	7.9	6.2	2.78	20600	0.63	0.02	5.2	13.0
555892		17.20	3.66	0.07	0.5	<0.005	0.013	0.20	6.9	6.7	2.76	12350	0.63	0.01	4.8	11.8
555893		21.1	4.04	0.08	0.6	<0.005	0.012	0.20	7.8	7.6	2.89	18050	0.69	0.01	5.4	11.9
555894		19.55	3.61	0.06	0.5	<0.005	0.013	0.17	7.2	7.6	2.48	22800	0.56	<0.01	4.9	11.7
555895		17.75	2.56	0.06	0.3	<0.005	0.009	0.03	6.1	4.7	1.73	29400	0.37	<0.01	3.3	7.1
555896		19.15	5.09	0.07	0.6	0.058	0.025	0.21	8.7	2.7	2.63	19250	1.24	0.07	5.0	16.6
555897		17.70	3.14	0.07	0.5	0.011	0.014	0.13	7.1	3.2	2.84	13700	0.34	0.01	4.6	9.4
555898		18.65	3.12	0.06	0.5	0.005	0.012	0.17	7.5	5.8	3.17	12750	0.36	<0.01	4.3	9.6
555899		7.29	19.35	0.08	3.7	0.016	0.071	0.88	23.3	15.0	2.91	944	1.83	1.71	20.0	139.5
555900		19.20	3.01	0.07	0.5	<0.005	0.013	0.05	8.8	4.6	2.60	16150	0.64	0.01	4.4	11.8



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18236845**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555881		1200	1.2	1.3	<0.002	0.30	0.11	4.1	1	<0.2	41.6	0.40	0.06	1.18	0.156	0.04
555882		760	2.1	6.7	<0.002	1.17	0.12	4.8	1	0.2	33.1	0.29	<0.05	1.41	0.123	0.21
555883		150	2.3	0.8	<0.002	2.24	0.22	0.4	1	<0.2	30.6	0.05	0.07	0.24	0.009	0.03
555884		130	1.0	0.4	<0.002	0.33	0.09	0.3	<1	<0.2	35.5	<0.05	<0.05	0.13	0.005	0.02
555885		300	1.3	5.1	<0.002	0.14	0.10	0.8	<1	<0.2	38.2	0.17	<0.05	0.66	0.061	0.14
555886		70	<0.5	0.2	<0.002	<0.01	0.06	0.2	1	<0.2	77.7	<0.05	<0.05	0.06	0.005	<0.02
555887		420	1.2	1.4	<0.002	0.15	0.08	1.4	1	0.2	20.7	0.20	<0.05	0.59	0.053	<0.02
555888		480	1.5	1.6	<0.002	0.12	0.08	1.8	1	0.2	26.4	0.30	0.05	0.78	0.089	0.02
555889		530	2.8	19.3	<0.002	0.18	0.20	2.2	1	0.3	40.5	0.34	0.05	0.85	0.116	0.08
555890		700	2.8	25.1	<0.002	0.15	0.22	2.7	1	0.3	38.0	0.30	0.06	0.91	0.108	0.08
555891		520	2.4	9.1	<0.002	0.14	0.30	2.7	1	0.2	35.2	0.28	<0.05	0.79	0.109	0.06
555892		490	2.2	12.8	<0.002	0.13	0.09	2.4	1	0.3	34.8	0.25	<0.05	0.72	0.091	0.09
555893		530	3.9	13.4	<0.002	0.14	0.09	2.5	1	0.3	43.5	0.27	0.06	0.77	0.106	0.10
555894		460	2.7	11.5	<0.002	0.12	0.42	2.4	1	0.3	47.6	0.26	<0.05	0.74	0.104	0.09
555895		540	1.6	2.5	<0.002	0.10	0.08	1.5	1	<0.2	64.2	0.16	<0.05	0.42	0.066	0.02
555896		590	1.8	10.2	<0.002	0.57	0.36	3.6	1	0.2	46.7	0.27	0.06	1.08	0.113	0.04
555897		440	1.1	6.3	<0.002	0.11	0.12	1.9	1	0.2	28.6	0.26	<0.05	0.69	0.082	0.09
555898		480	1.6	7.5	<0.002	0.17	0.12	2.0	1	0.3	22.6	0.26	0.28	0.70	0.088	0.11
555899		1160	14.1	40.1	<0.002	0.02	0.97	20.9	1	1.7	351	1.16	0.05	5.01	0.916	0.21
555900		610	1.2	2.5	<0.002	0.14	0.09	1.9	1	0.2	14.4	0.26	<0.05	0.78	0.075	0.04



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18236845**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555881		0.8	113	0.4	8.6	42	37.9
555882		1.2	109	0.3	6.9	56	44.6
555883		1.1	11	0.4	4.3	10	5.4
555884		1.2	10	0.1	4.1	6	3.4
555885		0.8	17	0.2	6.8	9	8.8
555886		0.1	1	0.1	2.0	3	1.5
555887		0.4	36	0.3	5.6	14	16.6
555888		0.4	51	0.4	6.4	11	23.4
555889		0.7	67	0.8	8.1	13	26.5
555890		0.6	74	0.5	7.9	18	29.1
555891		0.5	65	0.4	8.8	13	27.6
555892		0.5	69	0.4	7.0	13	24.4
555893		0.5	66	0.3	8.8	14	27.1
555894		0.5	66	0.3	7.8	15	24.4
555895		0.2	44	0.4	6.0	12	16.2
555896		1.0	86	0.3	6.5	27	27.5
555897		0.4	55	0.2	5.5	12	21.7
555898		0.5	51	0.3	5.5	11	21.3
555899		1.1	147	1.9	20.6	132	148.5
555900		0.5	41	0.2	6.1	15	20.6



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18236845**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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## CERTIFICAT VO18236847

Projet: Kan

Bon de commande #: KANDH18-RUSH-058

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 21-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Projet: Kan

**CERTIFICAT D'ANALYSE VO18236847**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
555901		2.24	0.024	0.03	0.85	0.8	10	0.59	0.06	3.16	<0.02	16.25	8.2	28	0.92	10.5
555902		2.48	0.001	0.02	0.37	4.5	10	0.53	0.04	3.28	0.02	8.86	5.1	16	1.09	5.5
555903		0.97	<0.001	0.02	0.35	2.6	20	0.58	0.03	4.09	0.04	12.10	5.2	12	2.11	1.7
555904		1.75	0.323	0.09	0.24	0.5	20	0.44	0.05	2.26	0.11	5.36	4.4	7	0.86	8.3
555905		2.52	0.014	0.35	0.04	1.6	10	0.20	0.12	6.92	0.13	6.72	7.2	3	0.22	28.8
555906		0.21	<0.001	<0.01	0.05	<0.2	10	0.06	0.02	33.9	<0.02	0.92	0.6	1	<0.05	1.3
555907		2.61	0.006	0.26	0.03	7.7	<10	0.24	0.11	6.69	0.09	4.61	6.9	2	0.14	23.5
555908		2.66	0.006	0.42	0.04	4.7	10	0.20	0.12	6.00	0.13	5.57	9.5	3	0.18	42.2
555909		1.92	0.003	0.03	0.13	51.4	10	3.44	0.05	5.39	0.05	7.76	5.9	8	0.77	3.0
555910		3.13	0.002	0.03	0.20	4.3	10	0.65	0.03	3.42	<0.02	8.25	5.7	9	1.48	3.8
555911		3.35	<0.001	0.04	0.26	1.3	10	0.35	0.03	2.83	0.03	7.51	3.7	9	0.17	11.7
555912		1.25	0.054	0.76	3.53	66.2	170	1.46	0.17	0.16	1.30	47.6	74.7	45	1.24	128.0
555913		2.73	<0.001	0.11	0.24	144.0	10	0.41	0.03	1.99	0.02	11.55	4.1	11	0.15	26.3
555914		2.39	<0.001	0.02	0.11	6.8	<10	0.82	0.02	1.53	<0.02	7.63	2.1	7	0.20	1.9
555915		2.40	<0.001	0.02	0.22	4.9	10	0.47	0.02	8.03	0.04	9.57	3.6	7	0.67	2.7
555916		2.41	<0.001	0.03	0.23	6.6	10	0.56	0.03	6.14	0.03	8.42	4.1	9	0.68	5.8
555917		2.43	0.001	0.04	0.28	6.1	<10	0.55	0.02	2.75	0.02	12.25	4.2	8	0.27	2.4
555918		2.20	<0.001	0.06	0.47	3.2	<10	0.78	0.02	3.06	0.03	17.40	4.0	9	0.44	4.4
555919		0.06	2.62	0.43	6.87	11.7	330	1.12	0.16	4.74	0.08	44.0	51.9	302	0.67	80.3
555920		2.59	<0.001	0.03	0.20	9.1	<10	0.60	0.02	1.94	<0.02	9.75	5.0	8	0.29	3.2



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 4-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18236847**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
555901		19.70	3.63	0.07	0.6	0.007	0.017	0.10	8.7	8.4	4.18	9750	0.63	0.01	5.3	12.5
555902		16.90	1.34	<0.05	0.2	0.006	0.007	0.08	5.1	3.0	3.24	9850	0.62	0.01	2.3	5.5
555903		19.05	1.43	0.05	0.2	<0.005	0.006	0.11	6.4	2.7	3.71	10050	0.35	0.01	2.8	5.7
555904		25.3	0.97	<0.05	0.1	0.008	0.006	0.06	3.3	2.4	4.30	8260	0.50	<0.01	1.0	2.7
555905		26.5	0.27	0.05	<0.1	0.020	<0.005	0.01	4.8	0.9	4.82	6550	1.59	0.01	0.5	4.0
555906		0.34	0.20	<0.05	<0.1	<0.005	<0.005	0.01	1.1	1.0	1.40	189	<0.05	0.02	0.1	1.0
555907		25.2	0.25	<0.05	<0.1	0.013	<0.005	0.01	3.6	0.6	4.32	11200	1.02	<0.01	0.4	4.2
555908		27.5	0.30	<0.05	<0.1	0.024	0.005	0.01	4.2	0.8	3.60	11300	1.64	<0.01	0.5	5.5
555909		18.20	0.54	<0.05	0.1	0.008	0.005	0.04	4.8	1.4	3.53	7750	0.27	0.01	1.2	3.2
555910		22.2	0.73	<0.05	0.1	<0.005	0.005	0.06	4.9	1.6	3.42	10200	0.48	0.01	1.6	3.7
555911		18.40	1.14	<0.05	0.1	0.008	<0.005	0.07	4.5	3.3	2.75	6980	0.40	0.02	1.0	7.2
555912		18.95	10.40	0.10	2.4	0.281	0.082	1.84	25.2	25.5	0.37	121	10.65	0.10	7.5	83.5
555913		16.55	2.22	<0.05	0.2	0.019	0.008	0.08	6.9	3.2	3.38	5490	0.80	0.01	2.3	11.7
555914		19.20	2.16	<0.05	0.1	<0.005	<0.005	0.03	4.5	1.3	3.33	5060	0.20	<0.01	1.1	2.2
555915		18.25	1.63	<0.05	0.1	<0.005	<0.005	0.04	5.8	1.3	4.55	5520	0.36	0.01	1.4	4.0
555916		17.55	2.11	<0.05	0.1	<0.005	0.005	0.04	5.1	1.3	3.78	4790	0.54	0.01	2.1	13.6
555917		22.5	2.20	<0.05	0.3	<0.005	0.007	0.02	6.8	1.4	3.21	6110	0.49	<0.01	4.5	3.9
555918		19.55	2.98	<0.05	0.7	<0.005	0.011	0.02	9.5	2.1	2.86	5570	0.32	<0.01	7.8	3.9
555919		7.49	17.80	0.07	3.3	0.051	0.058	0.99	21.9	9.4	5.60	1060	2.93	2.00	28.1	361
555920		20.1	1.07	<0.05	0.1	<0.005	0.005	0.02	5.9	0.8	2.64	7010	0.44	<0.01	1.5	4.2





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 4-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18236847**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555901		480	2.0	4.5	<0.002	0.31	0.13	2.5	1	0.3	28.9	0.34	0.06	1.13	0.086	0.07
555902		350	1.5	3.6	<0.002	0.32	0.13	1.0	1	0.2	28.5	0.11	<0.05	0.48	0.038	0.05
555903		420	1.4	4.9	<0.002	0.12	0.12	0.9	<1	<0.2	45.1	0.12	<0.05	0.63	0.032	0.05
555904		160	2.1	2.2	<0.002	1.19	0.10	0.5	1	<0.2	32.3	0.05	0.07	0.26	0.013	0.03
555905		50	4.9	0.4	<0.002	3.95	0.19	0.1	1	<0.2	65.6	<0.05	0.24	0.05	<0.005	<0.02
555906		70	3.6	0.2	<0.002	0.01	0.06	0.2	1	<0.2	79.9	<0.05	<0.05	0.05	<0.005	<0.02
555907		70	3.6	0.3	<0.002	3.66	0.16	0.1	1	<0.2	47.4	<0.05	0.13	0.05	<0.005	<0.02
555908		80	5.0	0.4	<0.002	5.74	0.19	0.1	1	<0.2	53.0	<0.05	0.20	0.06	<0.005	<0.02
555909		250	1.7	1.7	<0.002	0.33	0.15	0.4	<1	<0.2	45.7	0.05	0.06	0.24	0.012	0.02
555910		420	1.1	3.0	<0.002	0.14	0.08	0.5	<1	<0.2	23.6	0.07	0.06	0.32	0.020	0.03
555911		310	1.3	2.4	<0.002	0.66	0.09	0.6	<1	<0.2	25.5	<0.05	<0.05	0.22	0.012	0.05
555912		430	49.8	50.1	0.011	>10.0	5.76	7.4	7	2.3	7.4	0.40	1.43	3.31	0.153	1.24
555913		250	4.4	2.9	<0.002	1.68	0.57	0.5	<1	<0.2	20.0	0.19	0.12	0.47	0.011	0.09
555914		260	0.8	1.6	<0.002	0.21	0.09	0.2	<1	<0.2	9.9	<0.05	<0.05	0.11	<0.005	0.05
555915		180	2.0	1.7	<0.002	0.23	0.11	0.5	1	<0.2	61.8	0.06	<0.05	0.20	0.011	0.03
555916		120	1.8	1.7	<0.002	0.23	0.10	0.6	1	<0.2	50.8	0.09	0.05	0.28	0.015	0.03
555917		240	1.4	1.2	<0.002	0.25	0.10	0.6	<1	<0.2	23.9	0.21	<0.05	0.50	0.016	0.03
555918		250	1.8	1.1	<0.002	0.42	0.11	0.4	<1	0.2	23.5	0.61	<0.05	1.01	0.013	0.02
555919		1830	5.3	31.2	<0.002	0.03	0.32	21.9	1	1.3	474	1.60	0.09	2.80	1.075	0.06
555920		350	1.3	1.0	<0.002	0.35	0.08	0.5	<1	<0.2	15.2	0.06	<0.05	0.19	0.012	0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 4-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18236847**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555901		0.9	51	0.4	6.8	15	25.2
555902		0.3	23	0.2	4.5	9	8.9
555903		0.3	20	0.2	5.3	10	8.9
555904		0.2	16	0.2	4.2	23	11.8
555905		0.1	7	0.1	5.1	16	5.4
555906		0.1	1	0.1	2.0	3	1.2
555907		<0.1	5	0.2	4.8	12	1.7
555908		<0.1	6	0.1	4.8	16	1.5
555909		0.1	12	0.2	5.3	13	4.0
555910		0.1	13	0.2	5.8	7	5.2
555911		0.2	19	0.2	4.1	18	4.1
555912		7.4	97	1.3	9.4	372	91.4
555913		0.4	20	0.2	4.4	17	8.4
555914		0.1	11	0.1	4.2	7	4.1
555915		0.3	18	0.2	6.6	7	5.2
555916		0.4	27	0.2	6.0	7	7.2
555917		0.5	27	0.2	6.4	9	12.8
555918		0.4	19	0.3	7.8	11	27.1
555919		0.6	150	3.2	20.8	104	135.0
555920		0.3	21	0.2	6.4	6	5.5



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **4-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18236847**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 2-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18236851

Projet: Kan

Bon de commande #: KANDH18-RUSH-059

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 21-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18236851**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555921		2.20	<0.001	0.09	0.21	5.7	10	0.49	0.05	2.22	0.03	12.25	3.1	9	0.70	4.1
555922		2.50	0.001	0.06	0.21	4.8	<10	0.39	0.04	1.86	0.02	11.60	3.8	9	0.34	4.7
555923		2.58	1.700	0.17	0.28	8.7	10	0.36	0.04	5.07	0.08	9.81	3.9	8	0.51	7.2
555924		2.44	0.081	0.01	0.09	3.4	<10	0.39	0.02	1.54	0.02	7.15	1.9	9	0.24	2.6
555925		2.35	<0.001	0.02	0.08	3.6	<10	0.57	0.02	0.71	<0.02	7.08	1.6	8	0.22	1.0
555926		0.22	<0.001	<0.01	0.09	0.2	20	0.07	0.07	32.2	<0.02	1.29	0.4	2	<0.05	0.7
555927		2.23	0.673	0.02	0.13	2.3	10	0.42	0.02	6.17	0.08	8.16	2.3	10	1.34	4.3
555928		2.57	0.008	0.01	0.21	3.7	10	0.29	0.02	7.92	0.05	11.00	2.9	6	1.12	3.5
555929		2.52	0.007	0.03	0.39	9.6	10	0.44	0.03	4.63	0.05	14.60	6.0	12	2.02	12.0
555930		2.32	0.001	0.02	0.33	6.4	10	0.56	0.03	3.55	0.03	14.15	5.0	16	2.64	7.6
555931		2.58	<0.001	0.01	0.33	4.4	<10	1.18	0.02	2.51	0.02	25.8	3.5	5	0.63	2.7
555932		2.55	<0.001	0.01	0.18	4.1	10	0.45	0.02	3.86	0.02	11.20	3.7	5	1.62	3.5
555933		2.57	<0.001	0.01	0.34	8.2	20	0.49	0.02	3.84	0.02	14.85	5.1	17	2.74	2.9
555934		2.63	0.009	0.01	0.22	2.6	20	0.58	0.01	4.32	<0.02	13.95	5.5	8	3.31	1.6
555935		2.65	<0.001	0.01	0.20	2.0	20	0.55	0.02	3.40	<0.02	11.50	4.7	6	3.16	1.1
555936		2.70	<0.001	0.01	0.17	4.7	10	0.54	0.02	3.00	<0.02	12.95	4.4	6	2.47	1.4
555937		2.57	0.201	0.01	0.27	6.6	20	0.51	0.02	1.80	0.03	16.90	4.8	7	3.65	5.2
555938		2.45	0.002	0.01	0.19	3.2	20	0.49	0.01	6.95	0.02	14.40	3.8	14	2.62	2.4
555939		0.06	7.61	1.28	5.88	30.3	300	0.86	0.48	2.84	0.08	34.4	37.3	303	0.62	104.5
555940		2.71	0.002	0.01	0.17	5.5	20	0.51	0.02	2.93	<0.02	18.85	4.8	6	2.39	2.4



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18236851**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
555921		21.4	1.04	0.05	0.2	<0.005	0.009	0.03	5.4	0.8	2.95	5680	0.36	0.01	3.4	2.8
555922		19.55	0.85	0.05	0.1	<0.005	0.009	0.02	5.6	0.9	2.54	6230	0.43	<0.01	2.1	3.2
555923		16.35	1.73	0.05	0.1	0.013	0.009	0.05	4.7	2.0	3.25	4290	0.53	<0.01	1.5	4.2
555924		15.95	1.08	<0.05	<0.1	0.006	0.005	0.02	3.4	1.2	2.75	4090	0.19	<0.01	0.7	2.4
555925		17.20	1.30	0.05	<0.1	<0.005	<0.005	0.01	3.4	0.9	2.81	4380	0.15	<0.01	0.8	2.0
555926		0.20	0.24	0.07	0.1	<0.005	<0.005	0.02	1.1	0.9	1.27	116	<0.05	0.04	0.2	<0.2
555927		13.50	0.68	<0.05	0.1	0.028	0.007	0.04	3.5	1.0	3.03	4210	0.27	0.02	0.8	2.1
555928		16.85	1.22	<0.05	0.1	<0.005	0.007	0.04	5.3	1.1	4.22	4930	0.44	0.01	1.5	3.0
555929		21.0	2.36	0.05	0.2	0.007	0.012	0.07	7.1	1.4	3.86	5230	0.83	0.02	2.5	6.9
555930		20.7	2.33	<0.05	0.2	0.008	0.009	0.08	6.6	1.1	3.41	5020	0.87	0.03	2.8	5.3
555931		24.0	1.65	0.06	0.6	<0.005	0.008	0.02	11.7	1.2	3.36	6490	0.29	0.01	4.2	2.6
555932		20.7	0.79	0.05	0.1	<0.005	0.007	0.05	5.5	0.7	3.30	6560	0.23	0.02	1.1	2.8
555933		21.5	1.46	<0.05	0.2	0.011	0.006	0.08	6.7	1.0	3.43	9140	0.46	0.03	2.5	3.5
555934		21.7	0.79	0.05	0.1	0.027	0.007	0.10	6.1	1.0	3.71	9870	0.40	0.04	2.8	3.4
555935		23.0	0.65	0.05	0.1	0.017	0.006	0.09	5.0	0.8	3.81	9450	0.28	0.04	2.4	2.7
555936		22.0	0.63	<0.05	0.1	0.012	0.006	0.08	5.4	1.0	3.80	8430	0.22	0.03	2.4	2.7
555937		23.9	0.94	<0.05	0.1	0.023	0.006	0.11	7.2	0.9	3.49	9160	0.21	0.04	3.1	3.4
555938		19.80	0.83	0.05	0.1	0.007	0.007	0.08	6.0	0.8	3.88	9100	0.34	0.03	2.7	2.5
555939		5.36	13.70	0.08	2.2	0.152	0.047	1.01	14.3	14.8	3.89	731	5.41	1.14	15.5	242
555940		23.4	0.58	0.05	0.1	0.020	0.007	0.07	7.0	0.8	3.42	10600	0.37	0.03	5.2	2.9



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18236851**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555921		230	1.8	1.0	<0.002	0.30	0.17	0.4	<1	<0.2	21.9	0.12	<0.05	0.32	0.011	<0.02
555922		300	1.3	1.1	<0.002	0.56	0.12	0.4	<1	<0.2	18.6	0.08	<0.05	0.24	0.014	0.02
555923		140	2.5	2.2	<0.002	0.39	0.18	0.5	1	<0.2	61.9	0.07	<0.05	0.22	0.012	0.04
555924		190	1.0	1.1	<0.002	0.15	0.13	0.2	<1	<0.2	14.9	<0.05	<0.05	0.10	<0.005	0.02
555925		170	0.6	0.7	<0.002	0.06	0.15	0.1	<1	<0.2	6.4	<0.05	<0.05	0.09	<0.005	<0.02
555926		60	0.7	0.5	<0.002	<0.01	0.08	0.3	1	<0.2	81.4	<0.05	<0.05	0.07	0.011	<0.02
555927		90	1.8	1.5	<0.002	0.32	0.14	0.4	1	<0.2	71.4	0.05	<0.05	0.12	0.005	<0.02
555928		110	2.1	1.6	<0.002	0.20	0.12	0.5	1	<0.2	74.1	0.07	<0.05	0.22	0.012	0.02
555929		150	2.2	2.4	0.002	0.61	0.16	0.9	1	<0.2	46.4	0.12	0.07	0.47	0.028	0.02
555930		140	1.8	2.8	0.002	0.40	0.17	0.8	1	<0.2	37.0	0.12	0.05	0.44	0.026	0.02
555931		280	1.3	0.9	<0.002	0.19	0.11	0.3	<1	<0.2	24.2	0.48	<0.05	1.03	0.013	<0.02
555932		270	1.1	1.5	<0.002	0.22	0.10	0.4	<1	<0.2	30.9	0.06	<0.05	0.21	0.009	<0.02
555933		430	1.2	2.7	<0.002	0.19	0.14	0.7	1	<0.2	34.1	0.09	0.05	0.54	0.024	<0.02
555934		410	1.2	3.3	<0.002	0.04	0.15	0.5	<1	<0.2	36.5	0.10	<0.05	0.49	0.023	<0.02
555935		310	1.1	3.1	<0.002	0.03	0.14	0.4	<1	<0.2	29.3	0.07	<0.05	0.47	0.019	<0.02
555936		280	1.3	2.9	<0.002	0.05	0.14	0.4	<1	<0.2	28.4	0.07	0.18	0.39	0.017	<0.02
555937		560	1.1	3.9	<0.002	0.28	0.12	0.6	1	<0.2	23.3	0.10	<0.05	0.55	0.023	<0.02
555938		260	1.8	2.6	<0.002	0.04	0.14	0.5	1	<0.2	83.0	0.08	<0.05	0.43	0.016	<0.02
555939		1070	9.4	37.3	<0.002	0.08	0.78	19.3	<1	0.9	268	0.85	0.22	2.35	0.663	0.19
555940		470	0.9	2.4	<0.002	0.03	0.12	0.5	<1	0.2	32.8	0.13	<0.05	0.78	0.017	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 2-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18236851**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555921		0.3	21	0.2	5.7	8	7.8
555922		0.3	21	0.2	5.4	7	5.7
555923		0.3	24	0.1	5.3	12	5.4
555924		0.1	10	0.1	3.8	5	2.8
555925		0.1	10	0.1	4.0	4	3.1
555926		0.2	2	0.1	2.2	2	2.3
555927		0.2	12	0.1	6.9	6	2.7
555928		0.4	19	0.1	6.4	8	5.5
555929		0.7	35	0.2	6.7	10	10.6
555930		0.6	36	0.1	6.1	7	9.8
555931		0.5	21	0.1	8.1	9	26.9
555932		0.2	18	0.2	6.4	6	4.8
555933		0.4	25	0.2	6.5	7	8.5
555934		0.1	16	0.4	5.9	6	6.6
555935		0.1	13	0.2	5.2	5	6.2
555936		0.1	14	0.2	5.4	5	5.5
555937		0.2	17	0.2	5.7	10	6.7
555938		0.1	13	0.2	6.3	8	5.5
555939		0.6	139	8.0	14.2	81	91.2
555940		0.1	13	0.2	5.8	7	6.5





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **2-OCT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18236851**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.  
 CRU-31 CRU-QC LOG-21 LOG-23  
 PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
 Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 2-OCT-2018  
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## CERTIFICAT VO18236852

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Bon de commande #: KANDH18-RUSH-060

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 21-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18236852**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555941		2.58	0.949	0.34	0.20	10.4	20	0.40	0.03	1.89	0.07	12.00	5.6	7	2.97	29.0
555942		2.44	0.022	0.01	0.21	12.9	20	0.44	0.01	1.53	0.04	11.35	5.0	7	3.56	7.3
555943		2.55	0.122	0.04	0.19	5.0	20	0.38	0.02	6.15	0.12	8.08	3.7	7	2.03	19.2
555944		2.72	0.243	0.22	0.14	3.9	20	0.54	0.02	4.50	0.04	10.60	4.0	8	1.99	7.4
555945		2.51	0.043	0.01	0.12	7.9	10	0.65	0.01	2.50	<0.02	10.05	2.9	8	1.62	2.6
555946		0.19	0.002	<0.01	0.06	<0.2	10	0.05	<0.01	31.5	<0.02	1.03	0.6	1	<0.05	1.3
555947		2.45	0.003	0.02	0.17	14.0	20	0.56	0.02	4.73	0.02	10.70	4.6	9	2.70	8.3
555948		2.53	0.013	0.02	0.19	21.6	20	0.29	0.01	5.08	0.05	11.90	5.1	10	3.01	5.7
555949		2.56	0.257	0.01	0.09	6.2	10	0.57	0.01	3.17	0.02	9.26	2.8	10	1.41	2.2
555950		2.20	0.004	0.02	0.19	6.2	20	0.42	0.01	3.32	0.04	8.43	2.7	9	3.25	6.2
555951		2.61	0.147	0.01	0.14	25.5	20	0.37	0.02	2.88	0.04	11.15	4.4	7	2.55	9.5
555952		2.45	0.226	0.04	0.76	13.3	20	0.56	0.03	1.61	0.02	17.00	8.8	26	2.41	9.9
555953		2.20	0.003	0.07	0.39	6.0	10	0.50	0.04	1.18	0.03	9.95	9.7	17	1.64	15.9
555954		2.51	0.002	0.06	0.68	13.1	10	0.54	0.03	2.87	0.02	16.30	9.2	21	1.90	13.9
555955		2.44	0.029	0.02	0.47	11.2	30	0.58	0.01	2.04	0.02	13.05	6.7	18	5.78	5.9
555956		2.59	0.004	0.03	0.31	6.2	10	0.90	0.01	1.94	<0.02	10.65	4.7	12	2.32	3.2
555957		2.54	<0.001	0.01	0.49	13.5	<10	0.71	0.02	1.75	<0.02	14.10	7.4	19	0.37	5.0
555958		2.31	<0.001	0.19	0.41	4.9	10	0.51	0.10	1.03	0.06	8.91	8.8	20	0.51	26.1
555959		0.06	0.675	0.21	7.05	19.8	330	1.52	0.13	4.26	0.19	48.8	42.9	188	1.96	57.5
555960		2.83	<0.001	0.04	0.37	11.5	<10	0.69	0.02	1.21	0.19	10.65	5.4	16	0.22	7.3



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18236852**

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
555941		25.3	0.91	0.08	0.1	0.080	0.006	0.09	7.2	0.5	3.27	9140	0.17	0.04	1.8	2.9
555942		24.8	0.89	0.09	0.1	<0.005	0.008	0.11	7.0	0.5	3.61	7540	0.22	0.04	2.5	3.5
555943		18.55	0.84	0.07	0.1	0.020	0.008	0.08	4.2	0.8	4.06	5970	0.14	0.04	1.1	2.5
555944		22.7	0.74	0.09	0.1	0.016	0.005	0.07	6.4	0.5	3.85	8180	0.11	0.03	1.4	2.4
555945		21.6	0.65	0.07	0.1	0.008	<0.005	0.05	6.3	0.4	3.25	7770	0.15	0.03	1.0	1.9
555946		0.23	0.17	<0.05	<0.1	<0.005	<0.005	0.01	1.1	0.8	1.59	127	<0.05	0.03	0.1	<0.2
555947		18.00	0.89	0.07	0.1	0.031	0.005	0.08	5.3	0.6	3.17	7870	0.35	0.04	2.3	3.3
555948		19.10	0.84	0.07	0.1	0.016	0.007	0.09	6.0	0.6	3.36	9010	0.37	0.04	2.4	3.6
555949		19.40	0.49	0.07	0.1	0.013	<0.005	0.04	5.2	0.4	3.35	7270	0.16	0.02	1.7	1.8
555950		17.35	0.80	0.06	0.1	0.011	0.005	0.10	4.7	0.5	3.05	6530	0.15	0.04	1.5	1.8
555951		23.1	0.66	0.07	0.1	0.006	0.006	0.07	6.8	0.4	3.55	8240	0.11	0.03	1.3	2.2
555952		22.9	2.97	0.08	0.4	0.068	0.011	0.07	10.0	1.9	3.08	12900	1.36	0.03	4.7	10.1
555953		19.25	1.80	0.07	0.3	<0.005	0.094	0.05	5.3	1.1	2.11	12500	0.73	0.02	2.8	10.9
555954		19.80	2.85	0.08	0.6	0.010	0.103	0.05	9.0	1.8	2.83	12650	0.75	0.02	5.2	11.7
555955		19.70	1.85	0.07	0.4	0.017	0.011	0.16	7.1	1.0	2.92	10050	0.29	0.06	4.0	7.3
555956		22.8	1.39	0.08	0.3	0.008	0.009	0.07	5.8	0.9	3.47	10900	0.43	0.03	3.1	3.5
555957		19.95	2.20	0.07	0.3	0.007	0.011	0.03	8.0	2.0	2.88	13350	0.82	<0.01	3.4	7.4
555958		19.20	1.67	0.07	0.3	<0.005	0.038	0.06	4.6	2.2	1.99	12350	1.07	<0.01	2.9	12.9
555959		7.23	18.85	0.08	3.6	0.023	0.071	0.87	21.6	13.9	2.86	942	2.30	1.69	19.9	139.5
555960		19.05	1.74	0.07	0.3	<0.005	0.976	0.02	5.6	2.2	2.23	14950	0.58	<0.01	3.0	6.4



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 2-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18236852**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555941		460	1.2	2.9	<0.002	0.77	0.08	0.5	1	0.2	32.7	0.06	0.07	0.25	0.012	<0.02
555942		280	0.8	3.4	<0.002	0.14	0.09	0.6	1	<0.2	21.6	0.08	0.05	0.41	0.017	<0.02
555943		110	1.9	2.6	<0.002	0.40	0.11	0.7	1	<0.2	95.4	<0.05	0.06	0.23	0.010	<0.02
555944		250	1.2	2.1	<0.002	0.23	0.05	0.4	1	<0.2	52.3	0.05	0.05	0.21	0.010	<0.02
555945		410	0.7	1.7	<0.002	0.07	0.06	0.3	<1	<0.2	28.3	<0.05	<0.05	0.16	0.007	<0.02
555946		60	<0.5	0.4	<0.002	<0.01	<0.05	0.2	1	<0.2	78.7	<0.05	<0.05	0.05	<0.005	<0.02
555947		210	1.3	2.6	<0.002	0.18	0.09	0.6	1	<0.2	59.9	0.09	0.07	0.35	0.017	<0.02
555948		290	2.2	3.0	<0.002	0.14	0.20	0.5	1	0.2	71.6	0.10	0.05	0.33	0.015	<0.02
555949		320	0.9	1.5	<0.002	0.05	0.07	0.4	1	<0.2	46.0	0.05	<0.05	0.24	0.011	<0.02
555950		220	1.0	3.3	<0.002	0.20	0.07	0.4	1	0.2	48.5	0.09	<0.05	0.20	0.010	<0.02
555951		450	0.9	2.4	<0.002	0.26	0.08	0.4	1	0.2	42.0	0.05	0.06	0.20	0.010	<0.02
555952		520	1.1	2.6	<0.002	0.30	0.14	2.0	1	0.4	22.5	0.21	0.06	0.98	0.078	<0.02
555953		390	1.0	1.6	<0.002	0.90	0.09	1.3	1	0.3	16.3	0.14	0.05	0.52	0.040	<0.02
555954		510	1.4	1.9	<0.002	0.58	0.11	2.1	1	0.3	35.6	0.31	0.06	0.95	0.071	<0.02
555955		430	0.8	5.6	<0.002	0.13	0.11	1.5	1	0.3	28.1	0.25	0.05	0.66	0.062	<0.02
555956		330	0.7	2.4	<0.002	0.05	0.08	1.0	1	0.2	23.4	0.14	<0.05	0.51	0.038	<0.02
555957		600	0.9	1.6	<0.002	0.10	0.10	1.4	1	0.2	18.1	0.16	<0.05	0.58	0.053	0.03
555958		270	13.9	3.1	<0.002	1.64	0.08	1.1	1	1.0	13.3	0.14	0.09	0.51	0.045	0.05
555959		1150	13.6	36.1	<0.002	0.02	0.97	19.8	<1	1.7	349	1.15	0.05	4.65	0.901	0.19
555960		400	0.7	1.1	<0.002	0.04	0.10	1.0	<1	0.7	11.3	0.16	<0.05	0.56	0.035	0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 2-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18236852**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555941		0.1	13	0.3	5.3	13	4.4
555942		0.1	16	0.2	4.9	15	6.4
555943		0.1	12	0.2	6.1	15	3.2
555944		0.1	11	0.3	6.4	10	3.8
555945		0.1	9	0.2	5.8	7	2.8
555946		0.1	1	<0.1	2.0	5	1.4
555947		0.2	13	0.4	6.9	8	6.0
555948		0.1	14	0.2	6.1	15	4.7
555949		0.1	10	0.2	5.7	9	4.9
555950		0.1	13	0.4	5.0	13	3.9
555951		0.1	11	0.1	6.3	13	3.9
555952		0.7	41	0.2	7.0	20	20.2
555953		0.5	26	0.4	5.1	14	13.1
555954		0.6	45	0.3	7.2	14	25.6
555955		0.4	35	0.3	5.9	12	17.8
555956		0.2	22	0.3	6.6	8	12.3
555957		0.5	30	0.2	8.3	11	15.2
555958		0.4	25	0.3	5.1	21	12.5
555959		1.1	146	2.0	20.1	132	145.5
555960		0.4	24	0.6	6.4	61	14.0



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **2-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18236852**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 3-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18236854

Projet: Kan

Bon de commande #: KANDH18-RUSH-061

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 21-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 3-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18236854**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555961		2.56	0.029	0.03	0.84	11.3	<10	0.83	0.05	1.71	0.05	20.2	9.4	25	0.22	10.7
555962		2.57	0.008	0.02	0.61	5.6	<10	0.57	0.03	1.78	0.03	15.00	7.7	19	0.22	7.9
555963		2.62	0.083	0.13	0.53	6.2	<10	0.67	0.03	2.54	0.02	13.70	7.8	15	0.27	10.4
555964		2.62	<0.001	0.02	0.82	0.8	10	0.88	0.04	2.81	0.03	16.35	9.7	21	0.65	9.6
555965		1.81	0.002	0.01	0.56	1.3	10	0.76	0.02	3.40	0.05	11.45	6.8	17	0.93	6.3
555966		0.15	<0.001	0.01	0.15	<0.2	30	0.06	0.02	32.1	0.02	1.23	1.5	5	0.05	24.6
555967		1.36	0.002	0.02	1.05	0.5	10	0.69	0.03	3.09	0.15	20.3	10.0	22	0.79	12.5
555968		2.09	<0.001	0.04	4.21	14.0	230	1.82	0.07	2.87	0.15	27.2	21.7	72	6.22	39.6
555969		2.30	0.001	0.03	0.73	1.9	10	0.57	0.03	3.37	0.09	11.40	8.5	21	2.35	7.9
555970		2.74	0.005	0.04	1.36	2.0	10	1.05	0.05	2.19	0.07	19.45	13.8	35	2.02	15.2
555971		2.36	0.002	0.02	0.86	2.0	10	0.88	0.03	2.25	0.02	13.25	8.1	32	0.49	10.0
555972		2.34	<0.001	0.02	0.79	9.4	10	0.54	0.03	1.91	0.03	15.50	9.2	23	1.47	7.0
555973		2.51	0.780	0.12	0.61	3.8	10	0.56	0.04	2.04	0.06	13.80	10.4	16	3.47	20.2
555974		2.65	0.001	0.05	1.02	9.5	10	0.64	0.04	1.43	0.04	18.40	8.7	32	0.81	10.8
555975		2.00	<0.001	0.02	1.11	11.6	10	0.56	0.04	2.50	0.06	23.5	10.0	33	1.38	7.7
555976		2.28	0.005	0.10	0.58	4.8	20	0.43	0.03	4.63	0.08	15.95	12.4	18	1.45	27.9
555977		2.24	0.020	0.14	0.33	9.1	20	0.28	0.07	4.39	0.06	8.28	12.6	16	1.16	42.2
555978		2.35	<0.001	0.05	0.57	9.4	10	0.43	0.02	2.61	0.08	13.85	6.0	27	0.95	4.9
555979		0.07	2.54	0.42	6.57	11.8	310	1.02	0.17	4.67	0.07	43.2	51.4	309	0.71	77.7
555980		2.41	<0.001	0.02	0.72	16.3	10	0.43	0.02	2.54	0.08	13.85	7.0	23	1.27	4.7



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 3-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18236854**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
555961		19.60	2.76	0.07	0.8	<0.005	0.019	0.02	10.8	3.5	2.52	14000	0.98	<0.01	6.4	13.6
555962		20.9	2.61	0.07	0.5	<0.005	0.012	0.02	8.0	2.7	3.16	12250	0.39	<0.01	4.6	9.0
555963		19.20	2.16	0.06	0.4	0.008	0.011	0.03	7.4	2.7	3.19	11750	0.33	<0.01	3.7	9.2
555964		20.9	4.42	0.07	0.7	<0.005	0.015	0.07	8.9	4.4	3.37	14200	0.39	<0.01	5.6	13.2
555965		16.40	3.08	0.08	0.5	<0.005	0.013	0.10	6.3	3.3	2.86	12050	0.33	<0.01	4.2	9.2
555966		0.43	0.48	<0.05	0.1	<0.005	<0.005	0.02	1.3	1.0	1.24	166	0.07	0.08	0.2	1.3
555967		19.45	5.05	0.07	1.0	0.005	0.020	0.06	11.0	3.4	3.19	12500	0.42	<0.01	8.7	13.0
555968		11.05	11.90	0.06	1.3	0.022	0.038	1.55	14.0	34.1	2.67	4700	1.38	0.34	6.2	45.7
555969		14.55	3.70	0.06	0.5	0.016	0.014	0.09	6.4	2.1	2.60	11600	0.38	0.02	4.4	12.6
555970		22.2	7.07	0.09	1.2	0.016	0.024	0.19	10.6	4.8	3.60	16350	0.51	<0.01	9.9	21.8
555971		15.05	4.13	0.07	0.6	0.005	0.014	0.05	7.3	3.1	2.38	11850	0.40	<0.01	5.0	11.7
555972		20.7	4.04	0.07	0.6	0.013	0.018	0.12	8.5	3.0	3.20	13450	0.46	0.01	5.0	11.4
555973		21.3	3.16	0.08	0.5	0.034	0.017	0.16	7.6	2.2	3.25	11550	0.29	0.02	3.9	13.8
555974		21.3	4.80	0.08	0.8	0.007	0.020	0.06	9.8	3.5	2.97	13650	0.61	<0.01	6.8	11.5
555975		21.6	5.43	0.10	0.8	0.010	0.026	0.13	12.5	6.1	3.13	15800	1.01	<0.01	7.0	13.4
555976		16.30	2.89	0.07	0.6	0.012	0.169	0.12	8.5	4.7	2.93	8900	1.15	0.07	5.2	23.7
555977		14.80	2.09	0.06	0.3	0.012	0.265	0.11	4.6	3.5	2.66	7160	1.38	0.03	2.5	24.6
555978		17.05	2.46	0.06	0.4	0.007	0.048	0.08	7.8	4.1	2.78	11650	1.53	<0.01	4.1	11.1
555979		7.16	18.35	0.10	3.6	0.050	0.060	0.93	21.6	8.7	5.32	1000	3.10	1.90	28.0	336
555980		18.25	3.23	0.06	0.4	0.006	0.179	0.12	7.7	5.0	3.08	11050	1.49	0.01	3.4	10.1



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 3-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18236854**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555961		490	2.7	1.1	<0.002	0.21	0.10	2.6	1	0.4	16.7	0.39	0.06	1.40	0.092	0.03
555962		430	1.5	1.1	<0.002	0.14	0.09	2.0	1	0.2	17.0	0.29	<0.05	0.84	0.081	0.02
555963		400	1.7	1.5	<0.002	0.28	0.10	1.6	1	0.2	22.5	0.23	0.05	0.72	0.064	0.03
555964		550	3.3	3.5	<0.002	0.19	0.13	2.8	1	0.2	26.9	0.32	<0.05	0.98	0.110	0.05
555965		390	1.6	5.0	<0.002	0.11	0.11	1.9	1	0.2	37.9	0.23	<0.05	0.70	0.074	0.07
555966		70	0.5	0.4	<0.002	0.09	0.05	1.3	1	<0.2	80.4	<0.05	<0.05	0.08	0.016	<0.02
555967		580	2.5	3.0	<0.002	0.35	0.14	3.1	1	0.2	46.2	0.48	0.06	1.51	0.136	0.03
555968		290	5.9	49.7	0.003	0.61	0.30	14.3	1	0.8	64.4	0.40	<0.05	3.38	0.272	0.42
555969		370	2.0	4.2	<0.002	0.19	0.17	2.5	1	<0.2	54.5	0.22	<0.05	0.77	0.083	0.03
555970		580	2.4	10.6	<0.002	0.31	0.16	4.7	1	0.4	35.4	0.56	0.05	1.60	0.199	0.12
555971		440	2.1	2.5	<0.002	0.24	0.11	2.5	1	<0.2	23.9	0.30	0.05	0.96	0.107	0.03
555972		520	2.0	6.4	<0.002	0.18	0.14	2.6	1	0.2	23.5	0.31	0.05	0.87	0.106	0.07
555973		360	2.2	7.7	<0.002	0.62	0.11	1.7	2	0.2	37.8	0.27	0.07	0.77	0.069	0.06
555974		430	2.0	3.5	<0.002	0.34	0.12	3.1	1	0.2	20.1	0.40	0.07	1.35	0.124	0.05
555975		650	2.2	6.7	<0.002	0.27	0.12	3.6	1	0.3	32.5	0.41	<0.05	1.52	0.116	0.09
555976		400	3.0	4.6	<0.002	1.44	0.11	1.4	2	0.3	69.5	0.35	0.07	1.13	0.055	0.07
555977		310	3.5	4.6	<0.002	1.51	0.15	1.1	1	0.4	47.6	0.13	0.08	0.49	0.035	0.07
555978		430	3.7	3.6	<0.002	0.09	0.36	1.6	1	0.3	30.4	0.19	<0.05	0.96	0.067	0.05
555979		1800	5.1	30.7	<0.002	0.03	0.32	20.6	1	1.3	458	1.58	0.07	2.86	1.010	0.07
555980		380	1.8	5.4	<0.002	0.18	0.10	1.9	1	0.4	35.2	0.18	<0.05	0.77	0.054	0.06



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 3-OCT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18236854**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
555961		1.0	53	0.3	8.7	23	32.7
555962		0.5	44	0.3	7.1	13	22.2
555963		0.3	38	0.5	6.0	11	17.9
555964		0.7	66	0.3	7.3	15	29.1
555965		0.4	53	0.2	5.4	11	20.7
555966		0.2	6	0.1	2.7	3	3.3
555967		0.7	87	0.3	6.9	19	42.6
555968		1.8	154	1.1	5.8	81	45.3
555969		0.6	66	0.2	5.7	13	23.4
555970		1.1	126	0.7	8.9	22	50.2
555971		0.9	54	0.2	7.3	13	26.2
555972		0.8	60	0.3	6.9	15	24.9
555973		0.4	40	0.2	5.8	14	20.5
555974		1.0	65	0.5	6.6	20	32.8
555975		1.2	73	0.3	7.8	29	35.3
555976		0.7	34	0.2	5.7	25	26.7
555977		0.5	23	0.2	4.3	21	11.6
555978		0.7	34	0.2	5.5	36	18.1
555979		0.7	142	3.4	21.0	101	142.0
555980		0.6	37	0.2	5.4	40	15.3



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **3-OCT-2018**  
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**CERTIFICAT D'ANALYSE VO18236854**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
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Finalisée date: 17-OCT-2018  
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## CERTIFICAT VO18239165

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Bon de commande #: KANDH18-128

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 21-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 17-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18239165**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558591		4.39	0.055	3.73	3.87	55.2	150	1.42	0.54	1.92	15.95	48.6	37.1	62	3.91	204
558592		1.35	0.002	0.77	9.68	10.8	370	3.24	0.15	0.64	2.04	60.0	10.3	111	6.38	112.5
558593		2.05	<0.001	0.30	7.99	2.3	380	2.41	0.12	0.54	0.53	62.8	13.0	90	3.72	69.1
558594		3.68	0.023	1.95	5.56	95.0	170	2.00	0.43	3.07	7.37	51.3	21.2	65	3.82	162.0
558595		4.09	0.030	2.01	4.10	119.5	150	1.53	0.36	1.62	11.00	44.0	18.3	66	3.78	346
558596		4.02	0.037	2.27	2.72	81.2	130	1.32	0.32	2.18	16.45	58.3	19.3	68	3.52	256
558597		4.40	0.031	2.08	2.13	35.4	100	0.93	0.29	1.03	15.70	39.4	9.3	65	2.67	300
558598		3.92	0.024	1.27	2.14	5.1	140	1.02	0.23	0.57	14.20	42.9	11.1	66	1.91	169.0
558599		0.06	0.680	0.20	7.18	17.7	330	1.32	0.13	4.28	0.18	47.9	40.9	179	1.93	52.8
558600		4.53	0.013	0.81	5.79	12.5	340	2.71	0.38	1.47	3.75	81.5	33.5	68	3.65	247
558601		4.82	0.027	1.90	5.59	54.7	180	1.84	0.31	1.44	5.27	59.2	23.5	72	3.77	250
558602		4.66	0.026	1.67	7.55	61.7	190	2.04	0.48	1.02	10.70	55.4	28.8	86	4.81	157.0
558603		4.76	0.012	0.93	9.20	45.5	230	1.89	0.32	0.55	5.21	69.9	31.3	121	4.55	88.4
558604		4.42	0.012	0.82	5.06	9.7	180	1.75	0.18	2.17	2.07	57.1	11.8	72	2.90	80.7
558605		4.01	0.009	0.73	8.44	4.8	210	1.59	0.09	1.31	2.05	59.7	14.2	95	4.95	90.3
558606		1.98	0.002	1.05	7.95	9.5	190	1.38	0.32	2.85	2.96	54.6	25.7	84	4.57	108.5
558607		3.05	0.007	0.87	7.65	3.2	240	1.95	0.30	0.46	4.14	71.5	22.3	97	4.71	74.7
558608		2.31	0.011	0.79	6.46	51.5	210	2.41	0.16	2.33	2.86	52.9	21.4	92	4.12	194.5
558609		0.06	2.51	0.44	6.81	10.0	320	1.08	0.16	4.56	0.09	41.1	48.6	288	0.66	80.4
558610		5.05	0.035	1.40	3.19	162.5	110	0.99	0.35	5.24	6.58	42.6	15.6	57	3.71	66.7



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
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 Finalisée date: 17-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18239165**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558591		15.45	9.73	0.16	1.8	0.680	0.131	1.89	31.6	17.0	0.97	1090	126.5	0.06	5.2	227
558592		9.48	25.3	0.16	4.4	0.071	0.082	5.13	32.6	37.7	0.76	524	16.65	0.17	10.1	129.5
558593		8.50	19.55	0.13	2.3	0.024	0.050	3.76	32.0	22.5	1.18	7650	1.12	0.15	2.9	65.0
558594		14.65	13.70	0.18	2.4	0.624	0.073	2.59	30.8	26.3	1.66	1560	46.4	0.08	7.0	182.5
558595		12.70	10.00	0.21	1.8	0.721	0.078	2.04	30.8	19.6	0.93	1260	162.0	0.06	3.5	394
558596		9.48	7.56	0.21	2.8	0.714	0.090	1.36	38.8	16.2	1.01	1360	180.0	0.04	4.9	369
558597		7.26	6.07	0.17	1.7	0.447	0.087	1.02	25.9	12.9	0.51	600	150.0	0.03	4.1	315
558598		4.49	5.88	0.14	2.2	0.253	0.074	1.09	27.2	12.9	0.36	188	189.5	0.03	9.9	238
558599		7.24	18.35	0.12	3.8	0.022	0.067	0.87	21.8	13.0	2.86	918	2.41	1.70	19.7	142.0
558600		9.34	15.90	0.16	3.4	0.068	0.076	2.74	38.9	55.3	1.50	664	9.40	0.09	3.7	114.0
558601		15.15	14.30	0.16	3.3	0.230	0.058	2.33	33.1	35.2	1.26	721	42.7	0.09	5.5	186.5
558602		12.65	19.65	0.19	4.0	0.284	0.106	3.31	32.1	29.4	0.82	313	24.1	0.41	7.1	145.5
558603		8.68	22.7	0.16	4.7	0.176	0.082	3.30	42.0	26.6	0.61	153	13.00	1.88	10.1	91.6
558604		7.43	15.05	0.13	4.3	0.042	0.054	2.13	32.2	18.8	1.20	497	18.45	0.35	15.1	70.3
558605		9.76	20.1	0.16	3.9	0.076	0.087	3.34	35.7	29.3	1.04	429	11.45	0.73	8.4	83.0
558606		11.65	19.90	0.13	3.7	0.097	0.100	2.99	30.0	29.8	1.71	692	10.70	1.19	8.2	104.5
558607		8.47	19.70	0.15	5.2	0.106	0.114	3.17	40.2	32.4	0.69	192	14.85	0.46	15.9	73.4
558608		16.45	16.65	0.18	3.5	0.149	0.072	3.00	31.9	25.7	1.50	782	35.9	0.20	10.2	194.5
558609		7.37	16.70	0.11	3.3	0.067	0.061	0.97	21.0	8.3	5.40	1020	2.94	1.97	28.0	347
558610		12.95	8.08	0.15	1.7	0.635	0.118	1.49	28.2	16.6	2.64	1160	84.2	0.05	8.0	181.5





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 17-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18239165**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558591		1310	333	59.2	0.090	>10.0	21.7	7.1	14	1.3	69.0	0.33	0.82	4.24	0.115	3.08
558592		270	29.3	114.5	0.017	5.45	3.76	19.5	4	2.6	45.6	0.59	0.22	5.98	0.379	5.99
558593		840	9.4	118.0	0.003	2.49	0.46	11.3	1	1.4	40.4	0.17	0.08	9.08	0.121	3.70
558594		600	86.9	76.8	0.040	>10.0	13.10	10.4	10	1.7	91.0	0.42	0.94	4.42	0.169	3.63
558595		1300	103.0	64.7	0.082	>10.0	14.30	8.7	16	1.4	61.9	0.23	0.58	4.04	0.113	3.51
558596		2440	100.5	49.3	0.108	7.37	11.35	5.1	16	1.2	86.7	0.51	0.50	4.86	0.074	2.64
558597		1540	110.5	37.8	0.085	5.06	6.30	4.2	13	1.1	44.8	0.27	0.26	3.24	0.064	1.70
558598		990	44.0	38.4	0.089	2.71	4.35	4.0	7	1.1	30.7	0.53	0.16	4.13	0.071	1.53
558599		1130	13.0	35.7	<0.002	0.02	1.00	18.5	<1	1.7	350	1.12	0.08	4.80	0.913	0.19
558600		1930	14.9	97.4	0.023	4.82	1.88	10.7	8	2.2	81.9	0.22	0.27	10.05	0.126	3.17
558601		1490	114.5	68.5	0.040	>10.0	5.81	10.3	12	1.7	71.3	0.36	0.48	5.85	0.120	3.35
558602		300	371	84.2	0.022	>10.0	4.10	15.2	8	2.2	71.2	0.45	0.41	5.06	0.194	4.51
558603		270	59.6	84.5	0.015	7.21	3.36	18.2	4	2.2	71.2	0.59	0.71	6.21	0.293	4.36
558604		590	20.5	55.6	0.014	4.19	1.36	10.1	2	2.7	80.1	0.73	0.20	4.81	0.195	2.65
558605		270	17.4	75.1	0.010	5.21	1.07	18.0	3	1.9	68.4	0.49	0.22	5.00	0.276	2.77
558606		260	90.4	55.0	0.013	6.47	1.64	19.1	3	1.8	103.0	0.47	0.37	4.12	0.254	2.66
558607		460	63.0	75.0	0.015	4.51	1.24	15.5	3	2.8	44.6	0.92	0.38	6.32	0.271	2.79
558608		400	32.9	80.8	0.031	>10.0	2.03	13.2	10	2.1	86.0	0.58	0.21	4.63	0.232	3.39
558609		1820	4.5	29.4	0.002	0.04	0.33	19.5	<1	1.3	476	1.53	0.08	2.64	1.030	0.07
558610		670	77.7	46.3	0.068	>10.0	5.67	7.6	7	1.3	89.8	0.62	0.57	3.86	0.156	2.94



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18239165**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
558591		55.8	1120	2.9	23.7	2600	72.7
558592		15.8	242	2.4	9.6	356	162.5
558593		3.0	112	1.4	7.4	145	79.6
558594		20.9	415	1.7	13.4	1310	90.8
558595		74.6	1340	3.8	26.3	1910	71.3
558596		80.5	1600	3.8	33.3	2700	110.0
558597		60.1	1240	3.0	24.1	2410	66.6
558598		62.2	1160	3.6	19.3	1940	86.8
558599		1.1	146	2.2	19.6	128	146.0
558600		13.2	377	1.3	15.5	406	118.5
558601		25.6	441	1.3	18.1	682	114.5
558602		14.4	227	1.3	11.7	1200	146.5
558603		12.6	175	1.4	12.0	595	169.0
558604		12.4	152	1.3	12.8	249	169.0
558605		11.4	167	1.4	8.7	276	148.0
558606		11.1	155	1.2	8.9	411	136.5
558607		12.0	170	1.4	12.9	484	194.0
558608		18.5	342	2.2	13.4	537	126.5
558609		0.6	145	3.3	20.1	103	141.0
558610		36.2	741	3.4	20.0	1240	66.9



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Page: **Annexe 1**  
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**CERTIFICAT D'ANALYSE VO18239165**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	SPL-21	WEI-21	
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	SPL-21	WEI-21							
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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## CERTIFICAT VO18239166

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Bon de commande #: KANDH18-129

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 21-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18239166**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558611		4.71	0.017	0.68	5.64	121.0	160	1.27	0.33	3.63	4.93	49.7	20.3	67	3.98	81.4
558612		2.36	0.013	0.61	8.73	47.2	220	1.62	0.30	1.51	2.28	53.5	23.4	93	4.97	114.5
558613		3.15	0.006	0.48	6.54	21.5	160	1.49	0.18	1.88	1.16	59.5	20.6	91	3.10	84.5
558614		2.75	0.002	0.21	6.71	3.0	250	2.68	0.16	0.16	0.08	30.0	21.8	94	11.70	32.6
558615		4.41	0.002	0.18	8.26	8.9	450	3.01	0.21	0.29	0.22	63.6	24.2	103	6.74	36.5
558616		0.20	<0.001	0.01	0.09	<0.2	20	0.09	0.01	34.0	0.02	1.22	0.4	1	0.05	0.8
558617		4.53	<0.001	0.18	8.21	5.0	470	2.30	0.18	0.27	0.31	58.9	20.9	100	5.60	34.4
558618		4.68	<0.001	0.19	7.95	7.8	400	2.13	0.21	0.31	0.36	58.1	19.5	93	5.45	29.3
558619		3.69	0.003	0.13	6.91	22.8	60	0.34	0.04	6.37	0.25	9.02	47.7	118	1.74	179.0
558620		4.54	<0.001	0.06	7.14	16.9	40	0.35	0.01	6.46	0.14	8.03	50.8	112	1.14	150.5
558621		2.52	<0.001	0.09	7.60	15.3	40	0.34	0.01	6.35	0.18	8.45	52.4	121	1.18	168.5
558622		5.00	<0.001	0.08	7.02	20.6	40	0.36	0.04	6.30	0.16	8.94	56.2	122	1.30	153.5
558623		3.91	<0.001	0.07	6.74	16.3	40	0.39	0.04	6.09	0.16	8.76	48.1	121	2.83	146.0
558624		4.23	<0.001	0.09	7.50	40.6	80	0.52	0.04	4.30	0.24	8.38	58.6	140	2.85	168.5
558625		4.06	0.001	0.02	7.77	8.0	590	1.52	0.04	1.04	0.06	51.3	20.0	89	10.60	39.1
558626		3.54	<0.001	0.05	8.53	0.9	650	2.12	0.17	0.33	0.03	61.6	9.2	76	9.39	19.0
558627		4.03	<0.001	0.13	7.61	24.2	360	1.34	0.17	2.78	0.17	38.8	27.3	95	7.22	77.9
558628		4.29	0.002	0.14	7.63	44.7	300	1.52	0.15	2.57	0.26	27.9	35.2	116	8.84	104.0
558629		0.06	7.76	1.33	6.07	35.0	310	0.90	0.53	2.87	0.08	30.1	43.6	315	0.70	117.0
558630		4.29	0.008	0.09	7.92	1.0	410	2.36	0.19	0.19	0.05	61.7	11.1	81	13.20	57.8



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18239166**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558611		14.05	13.75	0.13	2.4	0.375	0.095	2.56	30.3	18.8	1.90	396	30.9	0.11	6.4	152.5
558612		10.95	21.3	0.14	3.8	0.160	0.084	3.62	31.8	27.2	1.05	241	13.50	0.97	5.9	116.5
558613		8.19	16.60	0.13	4.2	0.071	0.064	2.20	34.9	17.0	1.03	408	15.40	1.54	10.7	81.5
558614		14.40	19.50	0.11	1.9	<0.005	0.054	2.11	14.0	55.2	2.18	1460	4.64	0.02	10.7	54.4
558615		10.85	21.5	0.14	2.2	0.005	0.057	3.60	32.6	61.4	1.56	5480	1.15	0.03	10.1	51.2
558616		0.14	0.27	0.10	0.1	<0.005	<0.005	0.02	1.3	1.2	1.70	106	0.05	0.03	0.1	0.3
558617		9.09	20.7	0.15	2.3	<0.005	0.050	4.35	28.2	48.0	1.26	13600	1.00	0.04	9.7	44.7
558618		9.06	20.2	0.13	2.2	<0.005	0.050	4.05	28.7	49.8	1.27	13700	0.89	0.19	7.7	41.0
558619		8.59	14.95	0.09	1.3	0.038	0.070	0.58	3.7	27.3	4.85	1260	0.51	1.64	3.4	142.0
558620		8.94	15.70	0.08	0.8	0.042	0.071	0.41	3.0	19.7	4.85	1500	0.20	1.69	2.8	180.5
558621		9.46	17.20	0.07	1.0	0.029	0.076	0.42	3.1	20.7	4.84	1540	0.21	1.66	3.0	151.5
558622		9.31	17.90	0.07	0.9	0.020	0.073	0.39	3.3	23.9	4.68	1480	0.28	1.39	3.4	151.5
558623		8.76	16.65	0.06	1.1	0.011	0.065	0.59	3.1	30.5	4.21	1420	0.27	1.38	3.4	122.0
558624		10.50	19.00	0.06	1.1	0.014	0.069	0.80	3.2	43.8	4.61	1860	0.20	1.29	3.8	137.0
558625		6.22	21.3	0.13	3.0	0.007	0.034	3.97	24.8	40.5	1.75	1220	0.52	0.76	8.8	41.0
558626		4.30	24.6	0.15	2.5	0.009	0.044	5.19	32.9	44.2	1.26	518	0.21	0.20	8.8	30.0
558627		6.68	19.85	0.10	1.7	0.008	0.054	3.32	20.6	44.5	2.66	995	0.19	0.31	5.5	86.3
558628		9.42	19.70	0.10	1.6	0.014	0.062	3.04	14.6	51.4	3.10	1340	0.24	0.28	5.2	118.0
558629		5.50	16.40	0.08	2.5	0.155	0.044	1.05	15.7	15.8	3.92	718	6.56	1.19	17.8	246
558630		7.31	22.2	0.12	2.3	<0.005	0.043	3.96	33.2	47.7	1.66	303	0.51	0.94	8.0	33.1



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 11-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18239166**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558611		230	57.6	68.1	0.037	>10.0	3.54	10.6	7	1.4	89.2	0.38	0.61	4.19	0.157	3.65
558612		240	35.5	82.3	0.017	8.82	2.15	17.8	4	2.0	73.9	0.36	0.49	4.77	0.223	4.62
558613		390	22.5	54.2	0.015	5.50	1.69	12.6	3	1.8	75.3	0.61	0.28	5.07	0.206	2.76
558614		250	9.1	77.5	0.006	1.45	0.31	11.3	2	1.4	35.2	0.75	0.08	4.76	0.304	1.25
558615		380	8.5	149.0	0.005	1.38	0.31	12.3	1	1.5	51.3	0.72	0.12	9.20	0.327	0.84
558616		60	<0.5	0.8	<0.002	0.01	0.05	0.2	<1	<0.2	83.2	<0.05	<0.05	0.13	0.006	<0.02
558617		360	15.2	158.5	0.005	0.93	0.30	11.5	2	1.5	47.9	0.71	0.10	9.00	0.322	0.78
558618		420	18.4	157.5	0.003	0.94	0.27	11.3	1	1.4	56.2	0.59	0.07	8.47	0.281	0.80
558619		330	9.4	19.3	0.002	0.48	0.98	37.6	1	0.7	106.5	0.21	0.07	0.34	0.632	0.25
558620		330	3.3	11.6	0.002	0.11	1.68	37.2	1	0.6	207	0.17	<0.05	0.26	0.595	0.09
558621		350	3.6	13.4	0.002	0.11	1.63	42.6	<1	0.7	215	0.19	0.05	0.26	0.704	0.09
558622		360	4.2	13.3	0.002	0.08	1.70	38.7	1	0.6	204	0.21	<0.05	0.24	0.629	0.09
558623		360	5.2	27.5	<0.002	0.11	0.91	41.7	1	0.6	140.5	0.23	<0.05	0.24	0.677	0.14
558624		420	2.8	19.8	0.002	0.06	0.31	42.9	1	0.7	74.1	0.24	<0.05	0.24	0.736	0.17
558625		680	3.2	127.5	<0.002	0.04	0.37	13.0	<1	1.6	36.0	0.69	<0.05	9.44	0.337	0.56
558626		430	11.9	157.0	<0.002	0.05	0.47	10.6	1	1.7	20.9	0.67	0.06	12.85	0.300	0.59
558627		240	13.9	104.5	<0.002	0.09	0.30	20.5	1	1.3	111.5	0.40	0.06	7.12	0.350	0.50
558628		330	8.9	92.6	<0.002	0.13	0.41	24.0	1	1.1	112.5	0.38	0.06	4.55	0.434	0.67
558629		1080	10.1	39.1	<0.002	0.08	0.79	20.4	1	1.0	277	1.03	0.21	2.43	0.671	0.20
558630		440	5.5	187.5	0.002	0.82	0.82	11.2	1	1.5	35.9	0.61	0.11	11.70	0.258	1.03



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 11-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18239166**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
558611		16.0	282	1.6	10.2	937	93.1
558612		13.1	188	1.4	9.6	425	138.5
558613		10.3	158	1.1	12.5	213	161.0
558614		4.3	202	1.5	4.3	143	68.2
558615		4.5	179	2.5	7.2	138	76.7
558616		0.2	2	0.1	2.1	4	1.8
558617		3.4	154	2.3	6.3	139	80.3
558618		3.4	143	1.9	6.8	152	76.1
558619		0.6	310	0.4	20.2	93	28.9
558620		0.1	308	0.5	20.9	93	23.6
558621		0.1	352	0.6	22.5	101	23.8
558622		0.1	326	0.6	22.5	102	25.1
558623		0.1	325	0.6	22.7	97	31.9
558624		0.1	367	0.6	21.2	123	41.4
558625		2.2	103	1.0	14.1	61	105.0
558626		2.0	71	1.3	10.6	66	84.5
558627		1.0	153	0.8	7.3	87	58.6
558628		0.9	193	0.6	6.4	132	55.4
558629		0.6	141	9.5	15.8	82	102.0
558630		2.7	87	0.7	7.9	86	75.3

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*





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<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	SPL-21	WEI-21	
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	SPL-21	WEI-21							
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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**QUEBEC QC G1K 7R1**

Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 10-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18239175

Projet: Kan

Bon de commande #: KANDH18-130

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 21-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18239175**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558631		4.48	0.012	0.40	7.73	0.8	590	1.75	0.17	0.46	0.10	76.2	14.4	85	9.35	68.4
558632		4.74	0.007	0.31	7.75	23.7	700	1.74	0.19	0.48	0.22	77.1	14.1	74	5.48	48.8
558633		4.38	0.004	0.19	7.68	1.5	750	1.67	0.12	0.77	0.44	71.0	9.6	66	3.81	41.0
558634		4.35	0.003	0.33	7.81	1.6	780	1.84	0.35	0.43	0.44	80.2	10.3	65	3.70	37.2
558635		4.32	0.004	0.20	8.22	0.2	790	2.11	0.11	0.85	0.42	84.7	10.2	67	4.37	37.2
558636		0.19	0.001	<0.01	0.13	<0.2	20	0.06	0.02	33.6	0.02	1.31	0.7	3	0.05	1.5
558637		4.29	0.004	0.19	7.88	5.3	720	1.32	0.14	1.63	0.56	74.5	13.5	92	4.29	43.7
558638		4.38	0.003	0.17	7.96	0.7	750	1.51	0.12	1.14	0.40	78.0	10.8	75	4.47	40.7
558639		4.22	0.003	0.14	7.85	9.4	720	1.43	0.11	1.83	0.35	72.2	14.9	76	5.42	53.1
558640		4.45	0.006	0.21	7.20	14.8	450	1.72	0.22	0.76	0.32	68.0	12.2	77	10.70	68.8
558641		4.42	0.005	0.12	8.24	0.8	480	1.87	0.22	0.23	0.46	65.9	10.7	80	9.23	66.2
558642		4.57	0.002	0.09	8.93	1.7	460	2.46	0.21	0.13	0.02	74.4	12.1	86	8.14	35.7
558643		4.20	0.001	0.06	9.18	2.0	450	2.48	0.14	0.14	0.02	74.6	11.0	81	7.98	26.8
558644		4.49	0.001	0.07	9.32	3.9	480	2.64	0.12	0.19	0.03	76.1	11.9	88	8.99	26.3
558645		4.56	0.003	0.15	8.86	3.2	520	2.50	0.19	0.14	0.97	73.3	12.9	89	9.66	62.8
558646		1.40	0.012	0.25	8.35	4.6	550	2.36	0.21	0.25	2.87	61.1	19.4	87	8.72	74.8
558647		2.83	0.001	0.13	6.46	27.8	310	0.97	0.01	3.54	0.13	22.8	39.1	125	2.38	102.0
558648		4.34	0.001	0.16	6.71	31.2	40	0.40	0.01	6.34	0.16	8.75	57.5	128	3.23	139.0
558649		0.06	0.532	0.22	7.11	20.9	330	1.48	0.15	4.50	0.19	47.9	44.3	190	1.97	58.8
558650		4.42	0.003	0.10	6.68	15.0	50	0.43	0.01	5.63	0.11	9.22	46.2	134	3.86	121.5



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**CERTIFICAT D'ANALYSE VO18239175**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558631		5.20	20.9	0.14	3.3	0.019	0.044	4.76	40.6	32.0	1.46	216	2.17	0.14	7.5	38.3
558632		3.85	21.5	0.12	4.2	0.022	0.042	4.79	39.8	37.3	1.26	187	2.76	0.22	6.7	43.0
558633		3.21	20.5	0.13	4.7	0.029	0.040	4.70	37.2	41.0	1.25	260	3.31	0.21	6.8	36.7
558634		2.84	21.5	0.14	4.9	0.026	0.039	4.67	41.8	39.6	1.06	169	2.73	0.36	6.9	35.5
558635		2.94	23.2	0.14	5.7	0.026	0.047	4.84	44.5	43.2	1.24	260	3.93	0.50	7.2	40.1
558636		0.14	0.37	0.10	0.1	<0.005	<0.005	0.03	1.4	0.7	1.18	88	0.06	0.05	0.2	0.6
558637		3.48	20.9	0.12	4.9	0.030	0.045	4.40	39.3	23.1	1.46	432	3.48	0.51	5.6	49.0
558638		3.03	21.8	0.13	5.0	0.020	0.046	4.52	41.9	24.2	1.24	297	3.68	0.48	6.2	42.3
558639		3.86	21.4	0.13	4.4	0.023	0.049	4.36	37.5	30.3	1.45	491	3.24	0.43	6.0	51.6
558640		6.63	19.90	0.12	2.8	0.020	0.042	3.43	36.5	32.9	1.55	656	1.98	1.07	5.8	38.3
558641		6.26	23.4	0.10	2.3	0.032	0.058	3.75	35.7	36.2	1.35	419	0.53	0.82	8.0	33.5
558642		5.35	26.2	0.13	2.2	<0.005	0.053	4.61	39.3	41.1	1.16	255	0.40	0.45	8.7	33.3
558643		5.19	26.3	0.14	2.2	0.005	0.047	4.67	40.0	45.1	1.15	238	0.30	0.46	8.8	30.9
558644		4.65	27.3	0.13	2.6	<0.005	0.052	5.20	38.3	47.8	1.08	205	0.47	0.40	9.5	33.5
558645		4.80	25.4	0.14	2.3	0.030	0.049	4.86	39.2	51.1	1.01	277	2.21	0.29	8.4	38.6
558646		6.81	23.1	0.11	2.2	0.093	0.049	4.33	31.7	50.6	1.35	479	4.96	0.04	7.4	59.6
558647		8.35	18.75	0.09	1.5	0.020	0.059	1.38	10.6	36.8	3.07	1290	1.83	0.61	5.9	90.4
558648		8.78	17.30	0.07	1.0	0.026	0.070	0.55	3.1	33.3	4.43	1420	0.21	1.36	3.1	123.0
558649		7.31	21.0	0.09	3.7	0.019	0.070	0.87	21.2	12.6	2.90	943	2.44	1.72	20.8	140.5
558650		8.84	17.30	0.07	1.0	0.017	0.070	0.61	3.2	31.6	4.43	1220	0.20	1.43	3.1	103.5



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18239175**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558631		440	21.2	187.5	0.006	1.46	1.50	11.5	2	1.4	43.8	0.52	0.14	13.95	0.272	0.83
558632		190	26.0	178.0	0.005	1.29	1.32	10.4	2	1.4	51.1	0.40	0.12	14.55	0.267	0.70
558633		270	17.6	166.0	0.005	1.07	1.14	9.8	2	1.3	74.6	0.41	0.07	15.25	0.267	0.63
558634		280	76.3	164.0	0.005	0.94	1.05	10.3	2	1.3	53.3	0.42	0.11	16.05	0.276	0.65
558635		320	16.6	172.5	0.005	0.87	0.97	11.2	1	1.5	89.3	0.44	0.08	17.05	0.294	0.71
558636		50	<0.5	0.9	<0.002	<0.01	0.05	0.3	1	<0.2	87.1	<0.05	<0.05	0.14	0.014	<0.02
558637		290	19.2	156.5	0.006	1.01	0.90	12.5	2	1.3	145.0	0.35	0.08	14.85	0.262	0.70
558638		290	17.9	166.0	0.006	0.90	0.88	11.0	1	1.3	110.0	0.39	0.07	15.95	0.268	0.71
558639		370	10.2	164.0	0.006	0.88	0.86	14.4	2	1.3	135.0	0.37	0.05	14.45	0.313	0.74
558640		1300	16.3	167.5	0.005	1.35	1.10	10.7	2	1.3	101.5	0.39	0.12	12.80	0.234	0.78
558641		370	22.1	168.5	0.003	0.37	0.40	11.6	1	1.9	54.0	0.57	0.14	14.00	0.276	0.71
558642		210	18.7	180.0	0.002	0.38	0.35	12.4	1	1.7	46.8	0.63	0.07	14.80	0.305	0.70
558643		200	12.8	177.5	<0.002	0.19	0.34	12.2	1	1.7	46.3	0.62	0.05	14.50	0.308	0.67
558644		260	11.3	176.0	0.002	0.30	0.44	13.0	1	1.7	52.5	0.68	<0.05	14.65	0.337	0.75
558645		180	13.6	186.0	0.006	0.85	0.93	12.6	2	1.6	37.6	0.61	0.09	14.80	0.284	0.75
558646		160	9.2	150.5	0.014	1.83	1.24	12.7	4	1.4	26.9	0.57	0.10	11.45	0.263	0.72
558647		330	2.1	25.9	0.004	0.22	0.33	30.9	1	0.6	103.0	0.37	<0.05	2.68	0.531	0.21
558648		340	3.7	28.9	<0.002	0.07	0.42	40.8	1	0.6	176.0	0.19	<0.05	0.26	0.625	0.25
558649		1140	14.7	33.5	<0.002	0.01	1.04	20.3	1	1.8	347	1.17	<0.05	4.56	0.923	0.19
558650		380	2.5	31.5	0.002	0.07	0.28	43.1	1	0.6	166.5	0.19	<0.05	0.25	0.647	0.29



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Page: 2 - D  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18239175**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
558631		4.2	124	1.4	9.5	89	115.0
558632		3.9	88	1.3	9.6	68	146.5
558633		3.9	111	1.2	9.1	69	169.0
558634		3.9	107	1.0	9.9	79	178.0
558635		4.6	125	1.1	10.3	85	202
558636		0.2	2	0.2	3.6	4	3.1
558637		4.0	121	0.8	9.8	108	173.0
558638		4.1	121	0.9	9.9	86	178.0
558639		3.7	140	0.9	9.0	79	157.5
558640		4.4	94	0.9	11.2	85	101.5
558641		2.3	73	1.3	8.0	167	80.9
558642		2.5	79	1.6	8.2	69	77.1
558643		2.0	79	1.4	8.1	68	78.3
558644		2.3	93	1.6	8.5	73	93.1
558645		3.5	130	1.4	8.3	160	83.3
558646		5.8	271	1.0	8.3	340	75.0
558647		1.7	293	0.7	13.0	119	53.7
558648		0.1	322	0.3	22.5	95	32.2
558649		1.1	148	2.1	20.0	129	155.0
558650		0.1	337	0.3	21.6	88	38.4



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**CERTIFICAT D'ANALYSE VO18239175**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
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Page: 1  
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## CERTIFICAT VO18241773

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-038

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 26-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
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## PROCÉDURES ANALYTIQUES

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Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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À: **MINIÈRE OSISKO INC.**  
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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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 Finalisée date: 10-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18241773**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555501		2.32	0.002	0.06	0.55	7.5	30	0.68	0.02	3.62	0.06	10.70	6.7	30	0.65	7.3
555502		2.58	0.001	0.03	0.71	3.0	20	0.62	0.03	1.75	0.09	14.10	7.9	20	0.20	10.3
555503		2.53	<0.001	0.05	0.90	4.6	20	1.03	0.04	2.49	0.13	15.15	10.4	25	1.26	13.1
555504		3.64	0.006	0.38	0.45	12.6	<10	0.20	0.06	9.96	0.16	17.50	9.7	10	0.12	104.5
555505		2.43	0.003	0.22	0.92	53.4	10	0.46	0.06	2.57	0.07	25.8	6.8	19	0.09	47.2
555506		0.30	0.005	0.03	0.12	0.3	20	0.08	0.01	33.3	<0.02	1.45	1.0	4	0.05	2.9
555507		2.20	0.002	0.20	0.16	1.6	<10	0.26	0.01	9.89	0.10	14.55	3.7	8	0.06	12.3
555508		2.52	<0.001	0.02	0.22	1.5	10	0.18	0.01	10.70	0.13	9.90	1.3	7	0.12	5.0
555509		2.15	<0.001	0.04	0.29	0.6	10	0.18	0.01	5.15	0.11	14.20	1.5	4	0.23	5.0
555510		2.07	<0.001	0.04	0.20	0.9	10	0.11	0.01	3.21	0.08	8.98	1.5	10	0.20	5.6
555511		2.38	<0.001	0.05	0.17	1.5	10	0.17	0.01	9.38	0.16	11.45	2.4	8	0.28	12.4
555512		2.21	0.005	0.02	0.16	0.6	10	0.15	<0.01	5.60	0.12	9.67	1.4	5	0.30	4.0
555513		2.25	<0.001	0.01	0.08	0.9	10	0.21	0.01	5.48	0.09	12.30	2.1	4	0.07	2.8
555514		2.45	<0.001	0.02	0.27	0.8	10	0.24	<0.01	12.50	0.23	11.35	2.6	5	0.31	2.8
555515		2.38	0.003	0.02	0.38	2.4	<10	0.25	<0.01	11.55	0.29	8.37	2.4	6	0.16	3.9
555516		2.46	<0.001	0.10	0.42	118.0	<10	0.17	0.02	10.85	0.29	10.10	5.7	8	0.16	20.0
555517		2.35	0.005	0.08	0.31	50.5	<10	0.12	0.01	9.39	0.25	10.40	3.1	8	0.12	17.2
555518		2.20	0.028	0.23	0.23	15.4	<10	0.05	0.04	1.80	0.07	5.53	5.4	9	0.06	43.9
555519		0.07	7.53	1.34	6.13	36.0	310	0.93	0.53	3.01	0.09	31.6	42.9	317	0.71	114.0
555520		2.37	0.008	0.47	0.63	6.2	10	0.12	0.09	6.00	0.19	9.16	7.7	8	0.17	175.5



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 10-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18241773**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
555501		14.80	2.24	0.08	0.4	0.005	0.011	0.20	5.5	8.5	2.58	10300	0.70	0.10	3.8	10.5
555502		20.5	3.64	0.09	0.6	<0.005	0.017	0.08	7.5	7.5	2.75	13550	0.48	0.07	5.2	12.0
555503		19.70	4.48	0.09	0.7	<0.005	0.018	0.23	8.1	13.1	3.17	16550	0.64	0.02	5.9	16.8
555504		20.9	3.06	0.09	0.2	0.015	0.019	0.02	10.5	10.7	5.87	6130	2.30	0.02	1.8	41.6
555505		26.7	6.20	0.11	0.4	0.010	0.019	0.05	15.4	19.4	4.21	6530	3.22	0.08	3.6	17.5
555506		0.26	0.39	<0.05	0.1	<0.005	<0.005	0.03	1.4	1.4	1.53	138	0.08	0.05	0.3	1.2
555507		16.40	1.03	0.06	0.2	<0.005	<0.005	0.01	8.7	5.2	5.14	4630	1.19	0.01	1.3	6.2
555508		15.75	1.08	0.06	<0.1	<0.005	0.005	0.02	5.7	7.8	5.39	4720	0.18	0.02	0.3	1.9
555509		19.95	1.34	0.08	<0.1	<0.005	0.007	0.02	9.0	9.5	4.49	5720	0.18	0.01	0.3	1.8
555510		13.60	0.93	0.06	<0.1	<0.005	0.006	0.02	5.7	5.2	2.77	4040	0.24	0.01	0.2	2.3
555511		12.75	0.83	0.06	<0.1	0.007	0.006	0.03	6.6	4.3	4.40	4050	0.41	0.01	0.3	5.2
555512		15.70	0.85	0.07	<0.1	<0.005	0.006	0.04	5.9	3.7	3.96	4720	0.17	0.01	0.2	1.7
555513		20.9	0.59	0.07	<0.1	<0.005	<0.005	0.01	7.3	2.5	4.76	5860	0.24	<0.01	0.2	2.9
555514		15.10	1.63	0.08	0.1	<0.005	0.006	0.03	6.5	7.7	5.89	4650	0.43	0.01	0.6	3.2
555515		15.45	1.81	0.07	<0.1	<0.005	0.009	0.01	4.4	11.6	5.50	4990	0.17	0.01	0.3	3.2
555516		15.65	2.00	0.07	0.1	0.010	0.014	0.02	5.6	10.7	5.17	5120	0.30	0.01	0.5	8.6
555517		15.60	1.49	0.07	0.1	0.009	0.014	0.01	6.0	7.9	4.87	5330	0.35	0.01	0.4	5.9
555518		11.70	1.06	0.06	<0.1	0.009	0.031	0.01	3.2	5.6	2.23	4150	0.16	<0.01	0.2	10.9
555519		5.71	15.20	0.07	2.5	0.158	0.050	1.09	16.0	14.9	4.15	761	6.32	1.22	16.8	258
555520		20.7	2.18	0.09	0.1	0.017	0.020	0.10	5.0	8.3	3.05	5110	0.26	0.01	0.2	84.6



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18241773**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555501		300	2.0	9.2	<0.002	0.12	0.05	1.8	1	0.2	37.3	0.23	0.05	0.75	0.068	0.06
555502		480	2.5	3.1	<0.002	0.15	0.06	2.5	1	0.2	23.4	0.31	<0.05	0.84	0.110	0.02
555503		520	5.5	11.6	<0.002	0.19	0.07	2.9	1	0.5	38.4	0.34	0.07	1.06	0.115	0.08
555504		370	6.2	0.8	0.002	4.38	1.01	1.1	2	<0.2	175.0	0.08	0.42	0.40	0.016	0.03
555505		620	3.1	1.4	0.002	2.27	0.40	2.5	1	<0.2	45.0	0.16	0.26	0.76	0.035	0.04
555506		70	0.5	1.1	<0.002	0.01	0.05	0.3	2	<0.2	83.7	<0.05	<0.05	0.11	0.007	<0.02
555507		260	1.7	0.3	<0.002	0.68	0.16	0.5	1	<0.2	129.0	0.06	0.06	0.27	0.007	<0.02
555508		130	1.6	0.9	<0.002	0.21	0.11	0.4	1	<0.2	156.5	<0.05	<0.05	0.13	<0.005	<0.02
555509		240	0.8	1.8	<0.002	0.27	0.09	0.3	1	<0.2	69.8	<0.05	<0.05	0.15	<0.005	0.06
555510		190	0.7	1.4	<0.002	0.39	0.09	0.3	1	<0.2	50.2	<0.05	<0.05	0.11	<0.005	0.06
555511		90	1.8	1.8	<0.002	0.69	0.18	0.4	1	<0.2	143.0	<0.05	0.05	0.22	<0.005	0.07
555512		120	1.0	2.7	<0.002	0.18	0.07	0.4	1	<0.2	87.0	<0.05	<0.05	0.13	<0.005	0.11
555513		190	0.8	0.8	<0.002	0.14	0.06	0.3	1	<0.2	68.4	<0.05	<0.05	0.14	<0.005	0.03
555514		80	2.2	2.4	<0.002	0.06	0.17	0.6	1	<0.2	226	0.05	<0.05	0.21	0.006	0.09
555515		70	2.3	0.8	<0.002	0.20	0.10	0.7	1	<0.2	235	<0.05	<0.05	0.15	<0.005	0.02
555516		60	3.0	0.8	<0.002	1.21	0.26	1.0	1	<0.2	222	<0.05	0.15	0.29	0.007	0.02
555517		60	2.7	0.5	<0.002	1.21	0.26	0.7	1	<0.2	201	<0.05	0.10	0.25	0.005	<0.02
555518		80	2.9	0.3	<0.002	2.79	0.62	0.5	1	<0.2	43.3	<0.05	0.22	0.10	<0.005	0.02
555519		1120	10.1	39.8	<0.002	0.08	0.80	21.0	1	1.1	280	0.99	0.25	2.60	0.692	0.20
555520		140	7.5	3.5	<0.002	7.04	1.02	1.6	3	<0.2	159.0	<0.05	0.53	0.25	0.005	0.10



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18241773**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555501		0.4	43	0.7	5.5	14	18.4
555502		0.5	64	0.5	6.4	21	25.2
555503		0.8	86	0.5	6.7	17	31.1
555504		0.6	34	0.2	8.7	55	12.2
555505		1.2	67	0.5	7.6	73	22.8
555506		0.2	2	0.2	2.5	5	2.4
555507		0.7	13	0.3	9.0	22	8.8
555508		0.2	13	0.2	9.3	27	2.3
555509		0.1	15	0.2	5.8	37	1.9
555510		0.1	11	0.2	4.4	28	1.5
555511		0.1	10	0.2	7.2	26	2.6
555512		0.1	9	0.1	5.8	28	1.6
555513		0.2	7	0.1	6.3	24	1.9
555514		0.3	21	0.2	10.2	29	4.1
555515		0.2	23	0.1	9.3	47	2.6
555516		0.3	25	0.1	8.0	50	6.0
555517		0.3	18	0.1	6.8	45	5.2
555518		0.1	13	0.1	2.5	48	2.6
555519		0.6	145	9.9	15.9	88	103.5
555520		0.2	19	0.2	5.4	61	5.0



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **10-OCT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18241773**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.  
 CRU-31 CRU-QC LOG-21 LOG-23  
 PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
 Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
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plus les pages d'annexe  
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## CERTIFICAT VO18241788

Projet: Kan

Bon de commande #: KANDH18-091

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 26-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557801		4.93	0.015	1.82	4.71	24.8	250	2.82	0.57	1.76	1.15	67.3	23.0	54	2.96	284
557802		4.56	0.019	1.54	4.79	11.2	260	2.59	0.40	1.38	12.90	69.6	24.2	70	3.56	600
557803		4.52	0.025	1.38	2.57	17.8	150	1.89	0.27	0.80	20.3	49.5	18.6	58	2.34	407
557804		4.20	0.019	1.32	4.06	158.5	270	3.18	0.32	1.56	10.35	67.5	21.8	61	3.33	334
557805		4.65	0.004	1.14	3.65	36.8	210	2.61	0.36	1.00	6.29	56.8	22.7	58	2.91	406
557806		3.88	0.009	1.26	2.30	9.1	150	1.86	0.26	0.88	17.25	51.9	10.5	63	3.35	275
557807		4.19	0.028	1.95	2.84	87.9	140	1.97	0.41	1.03	24.1	52.9	22.5	68	4.64	445
557808		3.99	0.033	1.67	2.49	93.7	110	1.35	0.37	0.90	11.25	48.0	21.0	54	4.26	297
557809		0.09	2.54	0.45	7.03	12.0	330	1.20	0.18	4.96	0.08	45.6	53.7	316	0.71	82.9
557810		4.11	0.023	1.14	4.28	56.3	240	2.47	0.30	1.19	8.86	72.3	16.2	60	4.06	283
557811		4.65	0.002	0.79	6.27	53.9	320	3.52	0.22	0.84	1.93	93.1	32.0	72	3.55	230
557812		4.63	0.012	1.49	5.96	77.6	160	2.38	0.32	1.27	3.07	75.4	34.6	69	4.22	256
557813		4.41	0.041	1.94	6.52	78.2	170	1.92	0.38	1.62	11.00	82.5	25.7	70	4.83	99.9
557814		4.78	0.012	1.52	5.46	43.0	190	2.11	0.42	2.06	7.13	71.4	27.1	64	3.82	103.0
557815		2.22	<0.001	0.20	0.18	0.8	10	0.27	0.03	6.15	0.13	12.25	2.7	16	0.09	27.5
557816		0.34	<0.001	0.01	0.09	<0.2	30	0.07	0.02	33.7	0.03	1.13	0.8	<1	0.06	3.9
557817		2.33	<0.001	0.03	0.04	0.8	<10	0.23	0.01	3.80	0.04	8.90	2.0	16	<0.05	4.1
557818		2.44	<0.001	0.02	0.02	<0.2	<10	0.22	0.01	3.71	0.03	8.39	1.3	12	<0.05	2.1
557819		2.44	<0.001	0.03	0.03	2.8	<10	0.22	0.01	2.75	0.03	9.78	2.0	21	<0.05	4.3
557820		2.27	<0.001	0.07	0.13	3.0	<10	0.21	0.01	5.66	0.07	6.69	1.6	18	<0.05	3.1



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 15-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18241788**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
557801		17.20	12.40	0.14	2.3	0.090	0.063	2.24	32.3	26.7	1.89	1800	7.31	0.07	2.1	83.6
557802		10.75	12.50	0.17	2.6	0.588	0.075	2.34	33.8	30.7	1.26	1350	34.6	0.07	2.3	143.0
557803		8.72	7.17	0.15	1.6	0.898	0.052	1.32	27.9	19.2	0.69	1040	66.7	0.04	1.9	116.0
557804		11.55	11.85	0.16	2.8	0.410	0.051	1.92	36.4	26.5	1.80	2690	51.2	0.06	2.7	120.0
557805		11.45	10.75	0.11	2.6	0.285	0.030	1.38	30.2	35.9	1.21	805	54.6	0.04	2.2	172.5
557806		5.43	7.12	0.11	2.1	0.637	0.053	1.04	33.9	18.7	0.43	304	107.5	0.03	2.8	246
557807		12.20	8.41	0.16	2.0	1.125	0.104	1.23	34.6	24.8	0.71	665	170.5	0.03	3.3	330
557808		10.75	7.62	0.12	1.4	0.758	0.065	0.99	32.3	19.7	0.66	646	209	0.03	2.6	257
557809		7.57	18.95	0.07	3.6	0.048	0.062	1.00	23.0	9.7	5.63	1080	3.35	2.01	29.0	362
557810		10.35	12.65	0.14	3.1	0.378	0.066	1.60	38.1	39.7	1.02	549	110.5	0.06	6.4	198.0
557811		10.50	18.70	0.13	3.7	0.081	0.051	2.25	40.8	65.6	1.49	420	5.35	0.09	3.8	137.5
557812		14.25	17.20	0.13	3.2	0.271	0.055	2.27	38.6	38.2	1.13	431	31.1	0.10	5.7	186.5
557813		12.30	19.65	0.14	6.2	0.531	0.096	2.81	44.4	24.9	1.00	308	29.8	0.16	23.1	118.0
557814		11.80	17.00	0.09	3.4	0.245	0.079	2.16	39.3	25.6	1.30	884	27.8	0.10	7.9	107.5
557815		11.80	0.86	<0.05	0.2	0.011	0.008	0.05	7.0	2.5	3.93	3140	1.85	<0.01	2.1	22.5
557816		0.15	0.26	<0.05	0.1	<0.005	<0.005	0.02	1.3	0.9	1.35	96	0.13	0.03	0.2	0.4
557817		14.60	0.37	<0.05	0.1	0.005	<0.005	<0.01	5.3	1.4	3.78	2660	0.42	<0.01	1.0	7.4
557818		12.60	0.26	<0.05	<0.1	<0.005	<0.005	<0.01	5.2	1.0	3.26	2240	0.37	<0.01	0.4	3.4
557819		13.60	0.37	<0.05	0.1	0.007	<0.005	<0.01	5.7	1.0	3.23	2230	0.44	<0.01	0.9	8.6
557820		10.05	1.02	<0.05	0.1	0.006	<0.005	<0.01	4.2	4.9	3.40	2100	0.43	<0.01	0.9	6.5





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 15-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18241788**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557801		3020	19.9	89.2	0.029	7.48	1.96	9.1	8	1.8	85.7	0.14	0.36	7.28	0.092	2.76
557802		1410	33.3	95.5	0.036	5.67	2.57	8.8	16	1.9	62.3	0.13	0.43	7.26	0.094	2.84
557803		1870	36.1	54.3	0.062	5.20	3.42	4.4	19	1.3	39.2	0.11	0.39	4.27	0.054	1.71
557804		2900	35.8	77.3	0.050	5.37	3.75	7.7	13	1.5	66.8	0.15	0.42	6.94	0.078	2.36
557805		2070	111.0	56.7	0.047	6.19	3.12	7.0	15	1.3	41.2	0.13	0.37	5.84	0.068	1.93
557806		2580	194.0	43.8	0.095	3.12	4.40	4.6	14	1.0	38.0	0.21	0.33	3.82	0.059	1.84
557807		2100	151.0	52.0	0.126	9.19	10.50	5.8	22	1.3	38.6	0.24	0.77	4.56	0.065	2.72
557808		1400	115.5	43.3	0.088	7.93	10.05	5.9	15	1.0	30.7	0.20	0.54	3.94	0.061	2.54
557809		1890	5.3	32.1	<0.002	0.04	0.37	21.2	1	1.4	490	1.72	0.10	2.94	1.105	0.08
557810		1970	65.8	61.6	0.074	6.56	4.70	8.3	14	1.6	41.6	0.49	0.29	7.05	0.091	2.80
557811		1790	37.3	80.2	0.017	5.84	1.82	12.2	10	2.3	38.8	0.25	0.18	12.15	0.116	3.35
557812		1670	104.0	76.2	0.037	9.92	4.56	11.9	12	1.9	51.2	0.38	0.30	8.34	0.132	3.67
557813		520	458	83.4	0.029	>10.0	7.36	12.7	6	2.6	64.6	1.50	0.76	7.63	0.189	4.03
557814		590	482	66.9	0.022	7.89	2.34	12.5	6	1.5	68.7	0.50	0.41	4.80	0.164	3.00
557815		310	4.0	1.8	<0.002	1.03	0.27	0.9	1	<0.2	84.5	0.12	<0.05	0.39	0.018	0.08
557816		70	1.1	0.6	<0.002	0.01	0.06	0.2	1	<0.2	85.5	<0.05	<0.05	0.07	0.006	0.02
557817		220	1.2	0.1	<0.002	0.16	0.06	0.2	<1	<0.2	27.9	0.05	<0.05	0.13	0.009	<0.02
557818		230	0.8	0.1	<0.002	0.13	0.05	0.1	<1	<0.2	26.5	<0.05	<0.05	0.05	<0.005	<0.02
557819		200	1.1	<0.1	<0.002	0.22	0.08	0.2	<1	<0.2	25.7	<0.05	<0.05	0.20	0.008	<0.02
557820		150	1.4	0.1	<0.002	0.13	0.06	0.2	1	<0.2	71.7	0.05	<0.05	0.14	0.007	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 15-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18241788**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
557801		10.6	302	0.8	15.7	208	87.3
557802		23.1	561	1.1	17.2	1950	99.0
557803		37.3	740	0.9	20.8	2940	66.0
557804		29.2	580	1.2	23.5	1300	102.0
557805		29.9	651	1.3	16.9	989	90.9
557806		59.4	1160	1.8	30.6	2670	73.4
557807		75.4	1680	2.9	34.4	3910	78.1
557808		73.0	1610	3.5	29.2	1860	58.6
557809		0.7	153	3.4	20.5	110	148.5
557810		44.6	1010	2.5	29.1	1440	118.0
557811		8.9	378	1.2	15.2	362	130.0
557812		20.1	471	1.5	17.1	576	121.0
557813		17.6	275	1.4	17.7	1080	246
557814		13.5	231	1.3	12.9	651	138.0
557815		0.7	15	0.2	5.4	16	10.6
557816		0.2	2	0.1	2.1	5	3.6
557817		0.2	6	0.2	5.5	9	3.9
557818		0.2	5	0.1	5.9	6	1.7
557819		0.3	6	0.2	4.2	11	3.8
557820		0.2	13	0.8	5.3	12	4.3



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **15-OCT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18241788**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 13-OCT-2018  
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## CERTIFICAT VO18241790

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Bon de commande #: KANDH18-092

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 26-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18241790**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557821		2.29	0.010	0.04	0.07	7.9	<10	0.26	0.02	4.04	0.05	7.26	1.8	15	<0.05	2.4
557822		2.53	<0.001	0.04	0.05	1.4	<10	0.26	0.01	2.21	0.04	6.10	2.2	19	<0.05	2.5
557823		2.45	<0.001	0.02	0.10	2.6	<10	0.43	0.01	4.59	0.04	10.50	2.3	21	0.06	1.8
557824		2.65	<0.001	0.03	0.44	7.7	20	1.16	0.02	4.06	0.07	13.25	7.8	17	0.35	4.5
557825		2.50	<0.001	0.03	0.69	3.2	30	1.08	0.03	5.26	0.09	17.25	8.3	21	0.53	8.2
557826		2.37	<0.001	0.02	0.41	2.4	20	1.18	0.01	1.93	0.04	9.57	5.8	18	0.23	4.0
557827		2.63	<0.001	0.02	0.61	2.2	30	1.10	0.02	1.73	0.06	13.30	6.6	22	0.22	5.8
557828		2.34	<0.001	0.05	0.42	162.0	20	1.67	0.06	2.14	0.04	10.90	9.2	24	0.10	14.0
557829		0.08	7.48	1.27	5.98	33.6	310	1.01	0.48	2.90	0.08	31.8	41.8	314	0.67	111.5
557830		2.47	<0.001	0.02	0.54	5.0	20	0.97	0.02	2.15	0.06	13.00	7.6	23	0.11	8.4
557831		2.59	<0.001	0.05	1.17	3.2	20	1.30	0.04	1.63	0.07	18.75	9.6	34	0.16	13.1
557832		2.45	<0.001	0.05	0.57	4.1	20	0.69	0.01	1.51	0.06	10.45	6.8	20	0.15	4.6
557833		2.48	<0.001	0.02	0.66	0.8	10	0.65	0.01	1.28	0.06	10.65	7.4	23	0.17	5.0
557834		2.73	<0.001	0.02	0.80	2.1	20	0.82	0.02	1.23	0.07	12.75	9.2	21	0.15	9.8
557835		2.48	<0.001	0.02	0.82	0.8	10	0.85	0.02	2.09	0.06	14.35	9.1	22	0.14	8.2
557836		0.30	<0.001	<0.01	0.07	<0.2	20	0.08	0.01	33.0	<0.02	1.01	0.7	2	<0.05	0.9
557837		2.69	<0.001	0.02	0.92	2.8	10	1.12	0.02	1.86	0.07	15.80	9.5	22	0.16	9.8
557838		2.58	<0.001	0.03	0.67	1.5	10	0.72	0.05	2.79	0.05	11.90	6.6	28	0.12	7.5
557839		2.41	<0.001	0.03	0.83	1.9	20	0.98	0.05	2.17	0.04	14.00	7.1	26	0.16	8.2
557840		2.61	<0.001	0.03	0.83	3.3	20	1.06	0.05	1.69	0.04	12.80	7.5	25	0.16	9.8



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557821		12.55	0.57	<0.05	0.1	0.011	<0.005	<0.01	4.5	2.0	3.34	2450	0.53	<0.01	0.4	7.6
557822		16.35	0.48	0.06	<0.1	<0.005	<0.005	<0.01	3.6	1.3	3.45	2840	0.51	<0.01	0.4	12.9
557823		14.70	0.76	0.05	0.1	0.006	<0.005	0.01	6.2	2.9	3.85	3140	0.52	<0.01	0.8	5.7
557824		19.35	2.43	0.06	0.4	<0.005	0.012	0.10	6.8	8.4	3.60	9410	0.67	0.01	3.3	11.6
557825		20.2	3.90	0.07	0.7	0.005	0.019	0.21	8.9	10.2	3.90	11700	0.64	0.01	5.3	10.8
557826		15.70	2.04	0.07	0.3	<0.005	0.009	0.11	4.9	5.4	2.31	8960	0.43	0.01	3.2	8.0
557827		19.85	2.71	0.06	0.5	<0.005	0.013	0.10	6.9	7.3	2.63	11650	0.51	<0.01	4.4	9.4
557828		15.80	2.08	0.05	0.3	0.006	0.010	0.05	5.7	4.9	2.15	10550	0.69	<0.01	3.1	10.2
557829		5.47	14.60	0.07	2.3	0.168	0.044	1.03	16.1	15.7	3.91	753	5.87	1.15	16.8	246
557830		18.85	2.65	0.07	0.4	0.005	0.011	0.05	6.7	6.4	2.57	13150	0.55	<0.01	3.9	11.9
557831		21.3	5.82	0.08	0.8	<0.005	0.021	0.06	9.8	12.5	2.83	15850	0.72	<0.01	7.1	17.5
557832		16.00	2.85	0.06	0.4	<0.005	0.014	0.08	5.7	6.1	1.99	18750	0.45	<0.01	3.6	9.8
557833		17.10	3.28	0.06	0.5	<0.005	0.012	0.09	5.6	5.8	1.98	22100	0.48	<0.01	4.1	9.8
557834		19.85	3.87	0.08	0.5	<0.005	0.015	0.09	6.6	6.7	2.16	27200	0.51	<0.01	4.8	12.4
557835		21.0	3.99	0.08	0.6	<0.005	0.015	0.06	7.2	7.5	2.65	25700	0.56	<0.01	5.3	12.5
557836		0.19	0.25	<0.05	0.1	<0.005	<0.005	0.01	1.2	1.3	1.41	157	<0.05	0.03	0.1	0.4
557837		22.6	4.39	0.09	0.6	<0.005	0.016	0.05	8.0	8.6	3.06	20200	0.53	<0.01	5.7	13.3
557838		18.30	3.35	0.06	0.6	<0.005	0.015	0.03	6.5	6.3	2.77	14250	0.54	<0.01	5.0	10.7
557839		18.65	4.11	0.06	0.6	0.005	0.017	0.06	7.6	7.5	2.49	17300	0.65	<0.01	5.3	12.8
557840		20.2	3.72	0.06	0.6	0.008	0.019	0.06	6.9	7.6	2.55	14650	0.69	<0.01	5.4	12.3



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18241790**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557821		180	1.2	0.1	<0.002	0.23	0.09	0.2	1	<0.2	44.9	<0.05	<0.05	0.11	<0.005	<0.02
557822		430	1.1	0.1	<0.002	0.32	0.13	0.1	1	<0.2	22.0	<0.05	<0.05	0.08	<0.005	<0.02
557823		240	1.2	0.7	<0.002	0.14	0.06	0.3	1	<0.2	38.2	0.05	<0.05	0.22	0.005	0.02
557824		460	1.7	5.6	<0.002	0.17	0.06	1.2	1	<0.2	44.2	0.17	<0.05	0.71	0.047	0.09
557825		640	1.9	10.6	<0.002	0.18	0.06	2.1	1	0.2	58.3	0.33	<0.05	1.20	0.090	0.14
557826		270	1.0	4.5	<0.002	0.08	0.05	1.3	1	<0.2	28.4	0.18	<0.05	0.53	0.060	0.05
557827		460	1.3	4.0	<0.002	0.11	0.06	2.0	1	0.2	30.8	0.24	<0.05	0.66	0.095	0.05
557828		410	2.1	1.7	<0.002	0.33	0.11	1.5	1	0.2	34.0	0.17	0.20	0.48	0.068	0.02
557829		1080	9.1	37.6	<0.002	0.08	0.74	20.0	1	1.0	272	0.89	0.25	2.41	0.672	0.18
557830		470	1.8	1.8	<0.002	0.15	0.07	2.0	1	0.2	34.1	0.22	0.06	0.62	0.085	0.02
557831		600	2.4	2.3	<0.002	0.24	0.13	3.8	1	0.3	31.6	0.42	0.07	1.26	0.169	0.02
557832		430	1.1	2.7	<0.002	0.07	0.06	1.9	<1	0.2	39.1	0.18	<0.05	0.55	0.074	0.02
557833		470	1.1	3.2	<0.002	0.07	0.05	2.1	<1	0.2	37.4	0.22	<0.05	0.65	0.089	0.03
557834		590	1.4	2.7	<0.002	0.12	0.07	2.4	1	0.2	40.6	0.26	<0.05	0.79	0.104	<0.02
557835		600	1.3	2.1	<0.002	0.11	0.07	2.6	1	0.2	57.0	0.29	<0.05	0.88	0.113	0.02
557836		60	<0.5	0.4	<0.002	<0.01	<0.05	0.2	2	<0.2	80.9	<0.05	<0.05	0.07	0.006	<0.02
557837		610	1.5	2.3	<0.002	0.13	0.07	2.9	1	0.3	47.2	0.29	0.05	0.94	0.124	0.02
557838		460	1.8	1.4	<0.002	0.12	0.07	1.8	1	0.2	43.1	0.27	<0.05	0.76	0.090	0.02
557839		530	2.1	2.5	<0.002	0.17	0.09	2.4	1	0.3	33.8	0.31	<0.05	0.85	0.100	0.02
557840		500	2.3	2.3	<0.002	0.17	0.11	2.4	1	0.2	27.6	0.34	<0.05	0.85	0.124	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 13-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18241790**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557821		0.2	11	0.2	4.7	10	3.4
557822		0.2	8	0.2	4.6	11	2.0
557823		0.4	13	0.1	5.7	9	4.8
557824		0.3	33	0.4	6.9	22	18.5
557825		0.5	61	0.5	7.5	26	30.6
557826		0.3	35	0.4	5.0	13	13.9
557827		0.3	55	0.4	6.0	18	19.6
557828		0.3	37	0.3	5.2	12	14.0
557829		0.6	142	8.7	15.0	83	96.3
557830		0.4	45	0.4	5.9	15	18.0
557831		1.0	111	0.4	7.6	24	36.1
557832		0.3	53	0.5	4.8	15	17.2
557833		0.3	60	0.2	5.0	16	21.1
557834		0.3	70	0.3	5.8	15	25.4
557835		0.4	71	0.3	6.6	15	28.1
557836		0.1	2	0.1	2.0	4	2.0
557837		0.5	77	0.3	6.7	15	29.7
557838		0.4	64	0.3	6.0	11	26.1
557839		0.7	79	0.4	6.5	15	26.8
557840		0.6	78	0.5	6.3	16	26.8





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **13-OCT-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18241790**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-OCT-2018  
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**CERTIFICAT VO18241794**

Projet: Kan  
 Bon de commande #: KANDH18-093  
 Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 26-SEPT-2018.  
 Les résultats sont transmis à:

GLENN ASCH SIMON HEBERT LIZ STOCK	KAREN CHIU SIMON HOULE CORPORATIF WEBTRIEVE	PAUL DOBAK LEE SCHOLL
---	---	--------------------------

PRÉPARATION ÉCHANTILLONS	
CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

PROCÉDURES ANALYTIQUES		
CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18241794**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557841		2.51	<0.001	0.01	0.68	2.8	40	1.45	0.02	3.22	0.03	13.40	7.0	22	0.46	7.2
557842		2.54	<0.001	0.02	0.60	10.7	40	1.29	0.02	2.80	0.02	12.10	10.4	29	0.49	17.6
557843		2.59	<0.001	0.02	0.49	0.7	20	1.01	0.01	4.97	0.04	11.35	6.8	15	0.32	6.4
557844		2.42	<0.001	0.03	0.40	0.9	10	0.94	0.01	2.82	0.03	12.60	6.2	22	0.17	5.3
557845		2.55	<0.001	0.05	0.24	7.0	20	0.58	0.02	2.67	0.03	10.60	5.0	16	0.20	8.1
557846		2.51	<0.001	0.02	0.05	11.9	<10	0.70	0.01	2.71	0.02	4.35	1.5	13	0.05	2.9
557847		2.46	<0.001	0.02	0.04	1.3	<10	0.27	0.01	4.01	0.04	5.91	1.6	17	<0.05	3.6
557848		2.09	<0.001	0.02	0.04	0.8	<10	0.31	0.01	5.16	0.05	7.04	1.2	13	<0.05	3.0
557849		0.07	0.646	0.21	7.16	20.8	330	1.53	0.14	4.41	0.20	51.5	44.3	184	2.04	56.3
557850		2.48	<0.001	0.06	0.05	3.5	<10	0.48	0.02	9.11	0.08	15.80	3.4	12	<0.05	7.5
557851		2.48	<0.001	0.02	0.09	0.7	<10	0.29	0.01	4.76	0.06	12.10	1.5	19	<0.05	2.6
557852		3.17	<0.001	0.03	0.33	0.7	<10	0.45	0.02	7.93	0.12	23.5	4.1	25	0.10	6.9
557853		3.92	0.006	0.46	3.31	2.7	150	2.78	0.34	2.31	0.15	49.0	20.1	63	2.64	67.4
557854		3.21	0.001	0.26	3.10	2.4	160	2.81	0.21	1.06	0.05	56.6	13.8	48	2.58	42.8
557855		2.34	0.006	0.48	3.26	3.5	140	2.81	0.31	5.21	0.27	55.3	24.7	62	2.57	77.1
557856		0.27	<0.001	0.01	0.06	0.3	30	<0.05	0.01	33.7	<0.02	1.00	0.6	3	<0.05	1.6
557857		3.41	<0.001	0.09	0.22	2.5	<10	0.34	0.05	8.27	0.12	28.7	7.1	19	0.08	12.8
557858		2.37	<0.001	0.03	0.10	5.1	10	0.36	0.01	7.73	0.06	27.5	3.2	37	0.10	3.6
557859		2.42	<0.001	0.02	0.05	0.6	<10	0.47	<0.01	3.01	0.03	17.10	1.8	21	0.05	1.9
557860		2.46	<0.001	0.03	0.05	2.5	<10	0.27	0.01	4.64	0.05	8.16	1.7	14	0.05	2.5



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18241794**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
557841		19.35	3.51	0.09	0.5	0.007	0.015	0.24	7.1	8.9	3.08	11950	0.56	0.01	4.9	9.3
557842		16.70	3.04	0.06	0.5	0.005	0.015	0.29	6.2	7.7	2.81	10650	0.77	0.01	4.6	13.2
557843		19.85	2.89	0.07	0.4	0.007	0.010	0.17	5.9	6.8	3.86	10600	0.55	0.01	3.5	7.0
557844		18.05	2.40	0.06	0.3	0.005	0.009	0.08	6.9	6.2	2.87	9240	0.59	<0.01	2.5	7.4
557845		17.85	1.45	0.06	0.2	0.008	0.006	0.10	6.2	2.9	3.40	5590	0.98	0.01	1.5	11.6
557846		13.40	0.39	0.05	<0.1	0.009	<0.005	0.01	2.6	1.1	3.08	2380	0.39	<0.01	0.3	5.5
557847		16.80	0.33	0.06	<0.1	0.005	<0.005	<0.01	3.5	1.7	4.21	2970	0.26	<0.01	0.3	5.5
557848		11.10	0.34	0.05	0.1	0.005	<0.005	0.01	4.2	1.4	3.47	2160	0.24	<0.01	0.5	5.4
557849		7.16	20.3	0.12	3.8	0.018	0.065	0.85	22.2	15.4	2.83	908	2.47	1.68	19.6	140.5
557850		15.70	0.40	0.07	0.1	0.010	0.008	0.01	9.1	2.0	5.54	3100	0.56	0.01	1.2	15.6
557851		12.70	0.66	0.06	0.1	0.008	<0.005	0.01	6.4	2.4	3.79	2500	0.24	<0.01	1.5	6.7
557852		14.25	2.04	0.07	0.3	0.008	0.011	0.04	13.4	7.4	5.08	3060	0.81	<0.01	3.3	17.0
557853		10.15	11.25	0.12	2.2	0.068	0.074	1.45	26.2	32.1	1.46	1480	27.7	0.05	8.3	70.0
557854		5.58	10.65	0.10	2.2	0.050	0.070	1.49	29.9	27.9	0.71	677	19.85	0.05	8.7	48.1
557855		11.85	11.25	0.11	2.3	0.069	0.078	1.42	29.9	35.1	2.56	2440	28.9	0.06	12.5	70.7
557856		0.14	0.24	0.13	<0.1	<0.005	<0.005	0.01	1.2	1.1	1.27	93	0.09	0.02	0.1	0.3
557857		11.80	1.23	0.06	0.2	0.012	0.012	0.02	16.2	4.5	4.63	2810	1.31	<0.01	3.0	12.7
557858		14.00	0.82	0.07	0.3	0.008	0.007	0.03	15.4	3.0	4.97	2800	0.30	<0.01	3.6	10.0
557859		13.30	0.58	0.06	0.1	0.005	<0.005	0.01	9.1	1.6	3.19	2230	0.33	<0.01	1.3	5.5
557860		15.05	0.43	<0.05	0.1	0.010	<0.005	0.01	4.9	1.5	4.04	2630	0.26	<0.01	0.8	6.4



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18241794**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557841		530	1.8	9.0	<0.002	0.12	0.21	2.4	<1	0.3	41.9	0.28	<0.05	0.79	0.096	0.08
557842		390	1.6	10.3	<0.002	0.23	0.17	1.7	<1	0.2	29.5	0.29	0.05	0.83	0.080	0.07
557843		450	1.7	6.4	<0.002	0.31	0.17	1.4	1	0.2	53.9	0.20	<0.05	0.63	0.051	0.05
557844		620	1.3	3.1	<0.002	0.36	0.17	1.2	1	<0.2	39.1	0.12	<0.05	0.50	0.043	0.03
557845		590	2.4	3.9	<0.002	0.50	0.32	0.7	<1	0.3	33.2	0.07	<0.05	0.32	0.023	0.05
557846		130	1.1	0.5	<0.002	0.20	0.21	0.2	<1	<0.2	27.9	<0.05	<0.05	0.07	<0.005	<0.02
557847		210	1.3	0.2	<0.002	0.20	0.16	0.2	<1	<0.2	42.9	<0.05	<0.05	0.08	<0.005	<0.02
557848		80	1.0	0.2	<0.002	0.17	0.15	0.2	<1	<0.2	52.0	<0.05	<0.05	0.13	<0.005	<0.02
557849		1110	14.6	39.9	<0.002	0.02	1.12	20.4	<1	1.8	341	1.15	0.05	5.13	0.895	0.21
557850		140	2.2	0.3	<0.002	0.82	0.23	0.6	<1	<0.2	114.0	0.05	<0.05	0.22	0.011	<0.02
557851		350	1.0	0.4	<0.002	0.14	0.15	0.5	<1	<0.2	63.0	0.14	<0.05	0.51	0.012	<0.02
557852		410	2.0	1.2	<0.002	0.46	0.20	1.2	1	<0.2	104.5	0.24	<0.05	0.70	0.028	0.03
557853		760	13.7	45.7	0.016	4.82	1.65	10.4	4	1.2	49.7	0.47	0.55	2.93	0.140	1.02
557854		740	11.1	48.2	0.013	2.76	1.21	9.4	3	1.3	27.1	0.49	0.36	2.94	0.164	1.07
557855		580	13.4	46.3	0.022	5.33	1.45	10.1	4	1.1	93.5	0.70	0.54	3.37	0.159	0.97
557856		60	0.5	0.5	<0.002	0.01	0.12	0.2	1	<0.2	82.2	<0.05	<0.05	0.06	0.005	<0.02
557857		340	2.8	0.8	0.002	1.01	0.30	1.1	1	<0.2	89.6	0.19	0.08	0.62	0.027	0.02
557858		340	1.4	1.5	<0.002	0.12	0.17	0.9	<1	<0.2	63.3	0.18	<0.05	0.60	0.040	0.03
557859		350	1.0	0.4	<0.002	0.07	0.17	0.2	<1	<0.2	38.6	0.05	<0.05	0.29	0.013	<0.02
557860		210	1.2	0.5	<0.002	0.16	0.15	0.3	1	<0.2	51.3	<0.05	<0.05	0.17	0.009	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 16-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18241794**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557841		0.4	56	0.8	6.9	14	23.0
557842		0.5	48	0.9	5.6	12	22.4
557843		0.3	43	0.6	6.4	14	17.2
557844		0.4	33	0.4	6.6	10	14.7
557845		0.4	20	0.4	6.1	10	8.3
557846		0.1	6	0.1	3.7	7	2.6
557847		0.2	7	0.1	5.3	8	2.4
557848		0.1	6	0.2	5.6	10	2.8
557849		1.2	144	2.3	20.9	124	146.5
557850		0.5	7	0.3	9.3	17	4.3
557851		0.3	10	0.2	6.3	13	5.5
557852		0.6	26	0.5	11.3	28	11.9
557853		7.8	195	1.7	12.3	39	97.0
557854		7.5	147	1.7	10.8	26	95.5
557855		8.6	190	1.9	14.2	52	96.4
557856		0.1	1	<0.1	2.4	3	1.4
557857		1.9	18	0.4	9.3	27	10.9
557858		0.6	15	0.5	9.2	12	15.0
557859		0.3	7	0.3	6.8	8	7.8
557860		0.2	7	0.2	5.5	14	3.7

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **16-OCT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18241794**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 16-OCT-2018  
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## CERTIFICAT VO18241798

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Bon de commande #: KANDH18-094

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 26-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 16-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18241798**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557861		2.32	<0.001	0.01	0.10	1.5	<10	0.39	0.01	8.17	0.12	9.01	1.5	12	0.06	1.4
557862		2.39	<0.001	0.02	0.03	12.5	<10	0.31	0.01	2.12	0.03	5.06	1.6	17	<0.05	2.0
557863		2.38	<0.001	0.02	0.12	3.4	10	0.42	0.01	5.62	0.05	6.51	1.4	10	0.13	2.4
557864		2.51	<0.001	0.03	0.07	4.7	<10	0.39	0.01	3.58	0.02	6.18	1.9	15	0.08	2.7
557865		2.42	<0.001	0.01	0.05	3.0	<10	0.45	<0.01	3.66	<0.02	4.60	1.2	18	0.08	2.6
557866		2.38	<0.001	0.02	0.37	0.2	10	0.49	0.01	5.40	0.02	9.06	2.7	14	0.32	3.5
557867		2.43	<0.001	0.02	0.34	0.4	30	0.89	0.01	4.25	0.02	7.19	4.2	15	0.56	3.7
557868		2.61	<0.001	0.02	0.44	11.7	30	1.05	0.02	2.70	<0.02	9.59	6.8	15	0.32	4.9
557869		0.07	2.52	0.43	6.36	11.5	300	1.11	0.15	4.53	0.07	40.1	54.0	285	0.62	77.2
557870		2.49	<0.001	0.03	0.81	5.4	40	1.96	0.03	2.31	<0.02	15.25	8.3	27	0.60	11.9
557871		2.47	<0.001	0.02	0.42	14.0	20	1.00	0.02	4.37	0.02	12.50	8.2	16	0.41	7.4
557872		2.57	<0.001	0.02	0.67	3.9	40	1.36	0.02	2.26	0.02	15.40	9.1	25	0.70	10.3
557873		2.33	<0.001	0.02	0.53	5.6	20	0.78	0.01	2.50	0.02	10.70	7.1	24	0.14	6.1
557874		2.41	<0.001	0.03	0.67	4.8	20	1.73	0.02	1.72	0.03	13.40	8.2	21	0.11	10.7
557875		2.67	<0.001	0.04	1.03	5.3	20	0.80	0.03	2.34	0.06	14.95	11.9	26	0.14	15.4
557876		0.31	<0.001	<0.01	0.06	<0.2	20	0.05	0.01	34.1	<0.02	0.95	0.6	2	<0.05	1.0
557877		2.71	<0.001	0.03	0.94	0.2	20	0.79	0.02	2.32	0.09	16.20	9.2	22	0.25	9.1
557878		3.33	<0.001	0.03	0.65	2.7	20	0.92	0.01	2.16	0.15	10.40	7.8	21	0.28	7.8
557879		3.81	0.004	0.26	7.04	84.2	390	3.24	0.16	0.28	0.22	55.6	25.3	92	7.71	40.7
557880		2.42	<0.001	0.19	8.02	15.7	450	2.75	0.15	0.28	0.31	61.0	23.3	104	6.82	34.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 16-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18241798**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
557861		11.80	0.72	<0.05	0.1	0.008	0.007	0.02	5.3	3.1	4.55	2620	0.43	0.01	0.5	4.1
557862		13.45	0.30	<0.05	<0.1	0.006	<0.005	0.01	3.0	0.8	2.96	2330	0.44	<0.01	0.4	6.9
557863		10.85	0.88	<0.05	0.1	0.005	<0.005	0.04	4.0	2.7	3.58	2170	0.35	0.02	0.3	4.3
557864		16.05	0.65	<0.05	0.1	<0.005	<0.005	0.02	3.7	2.6	3.87	3010	0.42	<0.01	0.4	9.8
557865		12.70	0.49	<0.05	<0.1	0.007	<0.005	0.02	2.8	2.1	3.18	2500	0.30	<0.01	0.4	6.2
557866		13.50	2.21	0.05	0.2	0.016	<0.005	0.09	5.9	8.8	3.87	3140	0.45	0.05	0.5	6.9
557867		16.60	2.17	0.06	0.2	0.008	0.007	0.17	4.1	7.4	3.64	6800	0.31	0.01	2.0	8.3
557868		17.10	2.55	0.06	0.3	0.009	0.011	0.20	5.0	7.5	2.68	9460	0.59	0.01	3.2	8.7
557869		6.88	17.75	0.08	3.1	0.063	0.051	0.90	19.3	8.6	5.13	982	3.02	1.83	27.9	322
557870		19.10	4.19	0.06	0.6	0.008	0.019	0.35	7.0	12.6	2.71	12600	0.81	0.02	6.0	12.8
557871		17.50	2.50	0.06	0.4	0.005	0.008	0.16	6.3	6.9	3.32	10400	1.17	0.01	4.1	10.2
557872		17.75	3.76	0.06	0.6	0.005	0.014	0.32	7.3	12.2	2.52	12150	0.77	0.02	5.4	12.6
557873		19.05	2.39	0.06	0.4	<0.005	0.011	0.05	5.7	6.7	2.65	11600	0.44	0.01	3.9	9.0
557874		19.25	3.66	0.07	0.5	<0.005	0.018	0.05	6.7	7.8	2.54	14400	0.39	0.02	4.8	12.2
557875		20.2	5.54	0.07	0.7	<0.005	0.018	0.06	7.3	10.9	2.89	17200	0.52	0.01	6.4	18.6
557876		0.20	0.20	<0.05	<0.1	<0.005	<0.005	0.01	1.1	0.8	1.29	144	0.05	0.03	0.1	0.2
557877		20.4	4.99	0.06	0.6	<0.005	0.014	0.13	7.9	9.4	2.88	18350	0.53	0.01	6.0	13.8
557878		15.85	3.28	0.06	0.5	<0.005	0.014	0.21	5.5	4.7	2.11	18150	0.37	0.01	4.3	11.2
557879		10.70	21.6	0.11	2.0	0.029	0.050	3.54	28.0	54.6	1.61	3670	4.67	0.04	11.6	63.2
557880		9.74	24.4	0.12	2.0	0.019	0.053	4.52	29.8	42.6	1.41	9740	1.47	0.09	9.8	54.4



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557861		120	1.7	0.8	0.002	0.03	0.14	0.5	1	<0.2	126.5	<0.05	<0.05	0.23	0.006	<0.02
557862		230	0.9	0.5	<0.002	0.18	0.18	0.2	<1	<0.2	16.6	<0.05	<0.05	0.07	<0.005	<0.02
557863		100	1.6	1.8	<0.002	0.16	0.14	0.3	1	<0.2	62.1	<0.05	<0.05	0.11	<0.005	0.04
557864		220	1.8	1.2	<0.002	0.18	0.18	0.3	<1	<0.2	28.8	<0.05	<0.05	0.09	<0.005	0.02
557865		130	0.9	1.1	<0.002	0.06	0.15	0.2	1	<0.2	22.7	<0.05	<0.05	0.08	<0.005	<0.02
557866		540	2.3	5.2	<0.002	0.12	0.16	0.6	1	<0.2	39.7	<0.05	<0.05	0.41	0.007	0.06
557867		300	1.8	7.8	<0.002	0.10	0.15	1.0	1	0.2	29.3	0.09	<0.05	0.35	0.033	0.07
557868		350	1.3	7.5	<0.002	0.10	0.15	1.2	1	0.2	25.5	0.15	<0.05	0.50	0.045	0.04
557869		1700	4.7	29.8	<0.002	0.04	0.40	19.9	1	1.2	441	1.50	0.08	2.55	0.972	0.06
557870		450	2.2	13.4	<0.002	0.19	0.18	2.5	1	0.4	28.1	0.35	0.07	0.99	0.098	0.07
557871		450	1.6	6.7	<0.002	0.13	0.17	1.5	1	0.2	39.1	0.28	0.05	0.68	0.056	0.04
557872		430	2.0	12.8	<0.002	0.17	0.19	2.4	1	0.2	25.7	0.34	0.05	1.00	0.098	0.07
557873		420	1.6	2.0	<0.002	0.08	0.15	1.8	1	0.2	24.3	0.23	<0.05	0.56	0.084	0.02
557874		480	2.0	1.8	<0.002	0.16	0.18	2.2	1	0.3	19.5	0.27	0.07	0.72	0.099	<0.02
557875		540	2.9	2.2	<0.002	0.22	0.20	3.2	1	0.3	28.3	0.35	0.05	1.09	0.119	<0.02
557876		50	0.5	0.4	<0.002	<0.01	0.14	0.2	2	<0.2	86.4	<0.05	<0.05	0.05	0.005	<0.02
557877		660	2.2	5.3	<0.002	0.15	0.19	3.1	1	0.3	39.0	0.30	<0.05	0.93	0.125	0.03
557878		420	1.7	7.7	<0.002	0.14	0.17	2.2	1	0.2	92.3	0.22	<0.05	0.61	0.090	0.05
557879		270	6.3	155.5	0.010	1.91	0.60	13.3	2	1.4	48.4	0.77	0.11	8.05	0.304	1.00
557880		300	14.7	181.5	0.006	1.22	0.53	14.2	1	1.5	48.3	0.68	<0.05	9.04	0.314	1.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 16-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18241798**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557861		0.3	12	0.1	9.7	16	5.2
557862		0.2	6	0.1	4.2	6	2.0
557863		0.2	12	0.2	6.4	8	3.7
557864		0.2	9	0.2	5.7	7	3.0
557865		0.2	7	0.2	5.0	5	2.4
557866		0.4	8	0.2	7.4	7	7.8
557867		0.2	23	0.5	5.6	7	10.0
557868		0.4	35	0.7	6.2	8	14.1
557869		0.6	137	3.2	20.3	95	135.0
557870		0.6	72	1.0	6.8	13	29.8
557871		0.4	36	0.6	6.5	10	19.6
557872		0.6	62	1.0	6.5	14	28.8
557873		0.3	46	0.6	5.8	11	18.5
557874		0.5	66	0.6	6.1	16	23.1
557875		0.7	94	1.4	6.9	24	34.7
557876		0.1	1	0.1	2.0	4	1.3
557877		0.6	82	0.4	6.5	30	32.2
557878		0.4	56	0.3	4.6	26	21.8
557879		5.6	218	1.7	7.0	160	75.0
557880		4.1	188	2.1	7.1	119	75.7



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **16-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18241798**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.  
CRU-31 CRU-QC LOG-21  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 17-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18241813

Projet: Kan

Bon de commande #: KANDH18-095

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 26-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 17-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18241813**

Description échantillon	Méthode	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	élément	Poids reçu	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	unités	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LDI															
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557881		2.35	0.001	0.26	8.21	20.8	420	2.30	0.21	0.25	0.31	54.2	21.7	100	5.48	32.9
557882		2.32	<0.001	0.14	8.44	10.8	380	2.27	0.18	0.25	0.54	61.0	21.0	99	5.29	33.8
557883		2.39	<0.001	0.13	8.16	7.3	350	2.35	0.19	0.17	2.00	63.2	20.1	95	5.34	33.4
557884		2.22	0.001	0.18	7.92	7.1	330	2.94	0.10	0.40	1.33	61.7	14.6	98	5.55	31.8
557885		2.30	0.005	0.71	5.66	2.6	200	3.40	0.38	2.80	2.39	95.3	18.8	79	4.89	59.6
557886		2.17	0.005	0.86	3.78	43.5	150	2.46	0.42	3.41	2.38	55.4	31.7	62	4.25	98.2
557887		3.24	0.002	0.29	1.57	65.8	60	1.24	0.06	7.41	0.33	34.0	10.6	32	1.76	41.4
557888		3.92	0.007	0.43	2.50	76.9	110	2.18	0.19	4.39	0.54	39.4	17.1	42	3.05	67.6
557889		0.07	7.76	1.32	6.17	35.0	310	1.03	0.48	2.98	0.08	30.1	43.9	317	0.64	110.5
557890		1.72	<0.001	0.24	0.10	8.3	10	0.31	0.03	4.73	0.06	9.55	15.7	24	0.13	53.6
557891		2.32	<0.001	0.03	0.10	3.2	10	0.36	0.01	6.43	0.06	13.15	3.4	29	0.21	4.9
557892		6.11	0.055	1.74	3.77	8.7	100	0.89	0.53	1.57	4.04	39.1	15.1	61	1.29	283
557893		5.21	0.062	1.94	5.09	8.8	190	1.64	0.61	0.14	6.40	44.7	32.8	78	2.32	300
557894		5.25	0.065	2.37	5.67	6.4	130	1.90	0.73	0.15	6.11	45.2	33.7	83	2.75	314
557895		5.27	0.083	2.18	4.66	2.6	180	1.77	0.69	0.42	8.21	42.8	15.8	99	2.00	377
557896		0.29	<0.001	0.02	0.11	0.4	20	0.06	0.02	34.3	0.06	1.20	0.5	4	0.05	1.8
557897		5.04	0.075	1.95	3.15	0.3	130	1.05	0.53	0.44	28.6	33.2	2.5	65	1.33	252
557898		4.95	0.041	1.59	5.80	<0.2	190	2.28	0.40	0.08	3.94	49.4	0.6	93	2.67	263
557899		5.34	0.061	1.76	4.61	0.3	180	1.63	0.45	0.09	3.48	37.4	1.8	72	1.75	312
557900		5.29	0.046	1.40	4.50	0.7	190	1.79	0.32	0.36	8.97	38.3	6.9	75	1.89	269



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 17-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18241813**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
557881		8.22	23.7	0.08	2.1	0.013	0.045	4.48	25.1	33.4	1.14	12050	1.21	0.36	8.1	46.5
557882		8.26	23.2	0.11	2.1	0.019	0.049	4.42	29.8	30.8	1.18	12150	1.24	0.36	7.9	46.8
557883		6.89	22.5	0.12	2.3	0.057	0.047	4.29	29.8	33.1	1.00	8180	0.81	0.40	8.4	43.2
557884		8.17	22.8	0.15	2.3	0.059	0.057	4.09	30.9	43.3	1.17	5660	2.93	0.51	8.5	46.8
557885		10.20	24.7	0.18	10.8	0.095	0.095	3.03	45.3	49.1	1.63	1240	20.9	0.14	72.8	79.2
557886		13.20	12.90	0.14	2.5	0.088	0.090	2.10	28.7	37.1	2.07	2170	30.6	0.03	13.0	87.7
557887		13.35	5.57	0.10	1.1	0.034	0.048	0.89	18.8	16.8	4.15	3330	13.25	0.02	6.4	36.1
557888		12.40	8.54	0.11	1.7	0.046	0.067	1.43	20.9	31.8	2.66	2300	19.65	0.02	7.1	56.2
557889		5.52	15.50	0.10	2.3	0.177	0.048	1.06	14.5	15.1	3.97	736	6.20	1.18	15.6	244
557890		17.35	0.57	0.06	0.1	0.021	0.005	0.06	5.4	1.8	3.65	2540	1.62	0.01	1.0	39.8
557891		15.50	0.91	0.06	0.2	0.005	0.005	0.06	7.2	2.6	4.81	3030	0.59	0.01	2.0	11.8
557892		26.1	12.15	0.16	1.4	0.287	0.152	1.21	20.9	24.7	1.62	1420	16.10	0.05	3.8	173.0
557893		25.3	16.55	0.14	1.8	0.316	0.205	2.35	24.3	18.8	0.50	140	13.15	0.08	3.9	164.0
557894		27.3	19.90	0.20	2.1	0.310	0.208	2.57	22.5	21.4	0.53	115	15.10	0.09	4.4	172.5
557895		31.8	14.55	0.15	2.0	0.418	0.261	2.20	22.8	18.0	0.60	235	22.2	0.07	4.5	193.5
557896		0.26	0.31	0.06	0.1	0.005	0.005	0.03	1.2	1.1	1.39	98	0.27	0.04	0.2	1.2
557897		26.4	9.78	0.12	1.4	1.035	0.654	1.40	17.8	14.2	0.49	243	54.3	0.05	2.7	156.5
557898		26.3	19.35	0.16	2.3	0.245	0.164	2.74	27.3	23.2	0.53	67	14.05	0.09	3.5	158.0
557899		29.1	13.85	0.13	1.6	0.277	0.122	2.04	21.1	20.9	0.56	77	11.10	0.07	3.2	168.0
557900		23.6	13.70	0.11	1.7	0.390	0.239	2.11	20.9	18.0	0.53	241	18.00	0.07	2.8	135.0





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18241813**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557881		310	35.0	159.5	0.006	1.07	0.47	13.0	2	1.4	43.5	0.61	0.12	8.61	0.291	0.92
557882		350	9.9	169.0	0.003	1.12	0.45	13.1	2	1.4	40.3	0.60	0.05	9.07	0.289	0.92
557883		280	8.9	161.5	0.004	0.85	0.29	12.7	2	1.5	33.6	0.61	0.06	9.70	0.296	0.96
557884		320	16.9	150.5	0.005	1.79	0.53	13.2	1	1.8	43.0	0.54	0.09	8.21	0.271	1.13
557885		500	203	106.0	0.013	4.56	1.04	10.8	4	4.7	136.5	3.57	0.50	10.05	0.198	1.15
557886		720	140.5	79.1	0.020	6.10	1.32	11.0	6	1.5	151.0	0.63	0.65	3.56	0.179	0.87
557887		670	9.4	33.2	0.009	2.90	0.71	5.0	3	0.6	191.5	0.34	0.22	1.67	0.091	0.40
557888		640	13.5	55.0	0.014	4.51	0.92	7.7	4	1.1	122.5	0.38	0.43	2.33	0.124	0.66
557889		1090	9.5	37.6	<0.002	0.09	0.84	19.7	1	1.0	275	0.89	0.21	2.30	0.670	0.19
557890		160	2.2	2.0	<0.002	2.50	0.24	0.4	2	<0.2	54.4	0.05	0.14	0.15	0.010	0.04
557891		210	1.5	2.6	<0.002	0.24	0.13	0.7	1	<0.2	50.9	0.12	<0.05	0.47	0.042	0.05
557892		250	56.2	34.6	0.016	>10.0	14.95	8.5	7	2.3	42.1	0.21	1.79	2.98	0.086	1.31
557893		180	59.9	63.1	0.018	>10.0	17.35	8.7	7	4.5	14.0	0.21	2.12	3.88	0.107	2.41
557894		190	71.4	72.2	0.024	>10.0	23.0	11.0	8	5.6	16.1	0.25	2.45	3.51	0.109	2.77
557895		260	75.1	55.8	0.017	>10.0	22.0	8.8	10	6.7	18.4	0.25	2.33	3.84	0.144	2.05
557896		50	0.7	0.8	<0.002	0.05	0.10	0.2	1	<0.2	78.1	<0.05	<0.05	0.11	0.007	0.02
557897		240	60.2	36.4	0.036	>10.0	18.40	5.7	8	3.4	13.9	0.20	1.81	2.80	0.087	1.35
557898		180	47.3	75.4	0.017	>10.0	14.45	10.0	9	5.6	15.2	0.18	1.43	4.38	0.117	2.64
557899		150	51.9	53.0	0.014	>10.0	15.60	7.4	8	3.7	9.9	0.19	1.51	3.05	0.106	1.87
557900		210	40.0	54.4	0.019	>10.0	11.85	7.5	7	3.6	16.8	0.16	1.16	3.17	0.104	1.88



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18241813**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557881		3.4	161	2.0	6.1	103	81.2
557882		3.5	159	1.9	6.6	111	77.2
557883		2.4	123	1.7	6.4	198	86.7
557884		4.6	177	1.7	7.5	157	88.0
557885		8.5	156	1.7	26.2	151	442
557886		8.5	218	1.5	14.3	147	118.5
557887		4.3	97	0.8	11.2	45	50.6
557888		5.7	133	1.3	12.5	66	74.8
557889		0.6	143	9.2	13.9	81	97.3
557890		0.5	8	0.1	6.6	14	4.3
557891		0.3	11	0.3	7.0	14	9.3
557892		5.7	103	0.8	6.7	1040	62.3
557893		6.6	123	1.0	5.9	1570	74.8
557894		8.7	140	1.2	6.6	1420	86.9
557895		7.8	119	1.2	7.0	2290	72.9
557896		0.2	3	0.3	1.9	17	1.8
557897		8.3	83	1.3	6.0	7960	53.0
557898		8.2	141	1.3	6.1	992	85.5
557899		6.0	110	1.0	4.6	985	58.5
557900		6.5	114	1.0	5.2	2380	60.1



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **17-OCT-2018**  
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**CERTIFICAT D'ANALYSE VO18241813**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 8-OCT-2018  
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## CERTIFICAT VO18244226

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Bon de commande #: KANDH18-RUSH-066

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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 Finalisée date: 8-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244226**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
556061		2.48	<0.001	0.01	0.03	1.1	10	0.53	0.01	0.92	<0.02	6.37	3.3	11	0.55	2.3
556062		2.54	<0.001	0.01	0.06	<0.2	10	0.58	0.01	1.48	<0.02	5.00	3.2	7	1.41	0.7
556063		2.22	<0.001	0.01	0.05	5.7	<10	0.67	0.02	1.54	<0.02	5.21	3.5	6	1.34	1.0
556064		2.71	<0.001	0.01	0.06	<0.2	10	1.38	0.01	1.38	<0.02	4.55	3.6	4	1.88	0.6
556065		2.64	<0.001	<0.01	0.04	0.5	10	0.98	0.02	2.41	<0.02	5.49	3.3	4	1.23	0.8
556066		0.16	<0.001	<0.01	0.06	0.6	20	0.06	0.01	33.1	<0.02	0.91	0.7	3	0.05	0.8
556067		2.35	<0.001	0.01	0.04	0.4	10	1.15	0.01	1.87	<0.02	4.82	3.6	9	1.02	1.2
556068		2.62	<0.001	<0.01	0.04	0.2	10	0.76	<0.01	1.67	<0.02	4.82	2.9	6	0.72	0.4
556069		2.34	<0.001	0.01	0.07	1.8	10	0.48	0.01	2.77	<0.02	6.09	3.2	5	1.26	1.3
556070		2.37	<0.001	0.09	0.10	2.6	10	0.89	0.02	3.01	<0.02	6.92	3.7	6	1.27	1.6
556071		2.45	<0.001	<0.01	0.05	4.2	<10	0.70	0.02	3.39	<0.02	6.94	3.4	7	0.66	1.7
556072		2.41	<0.001	0.03	0.05	0.4	<10	0.76	0.02	1.98	<0.02	4.85	3.2	4	1.16	1.2
556073		2.57	<0.001	0.02	0.05	<0.2	<10	0.59	0.01	1.46	<0.02	4.02	3.2	2	0.56	0.7
556074		2.68	<0.001	0.01	0.04	0.5	<10	0.84	0.01	1.49	<0.02	3.74	3.1	1	0.59	0.6
556075		2.53	<0.001	0.01	0.05	0.5	<10	0.51	0.01	1.49	<0.02	5.88	3.3	1	0.82	0.7
556076		3.07	<0.001	0.01	0.04	0.2	<10	1.51	0.01	1.70	<0.02	5.60	3.3	2	1.01	0.6
556077		2.59	<0.001	0.01	0.07	0.4	<10	1.42	<0.01	1.67	<0.02	5.12	3.4	1	1.12	0.7
556078		2.54	<0.001	0.01	0.05	0.2	<10	0.84	<0.01	1.82	<0.02	7.34	3.6	1	1.18	0.8
556079		0.26	8.50	1.68	8.32	98.0	210	4.18	3.58	2.03	4.32	26.1	17.8	56	2.64	109.5
556080		2.69	<0.001	0.01	0.06	0.2	<10	0.79	0.01	1.77	<0.02	5.78	3.5	2	1.22	1.4



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Page: 2 - B  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 8-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244226**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
556061		27.7	0.31	0.12	0.1	<0.005	<0.005	0.01	4.4	0.5	3.51	7100	0.15	0.01	0.6	1.7
556062		25.4	0.39	0.10	0.1	<0.005	<0.005	0.02	3.1	0.5	3.54	6050	0.13	0.01	1.0	1.4
556063		20.9	0.32	0.08	<0.1	0.006	<0.005	0.02	3.1	0.5	3.10	4650	0.12	0.01	1.0	1.1
556064		28.7	0.37	0.10	<0.1	<0.005	<0.005	0.03	2.8	0.5	4.19	6210	0.11	0.01	1.0	1.2
556065		26.0	0.30	0.09	<0.1	<0.005	<0.005	0.02	3.4	0.6	4.01	5660	0.10	0.01	0.9	1.1
556066		0.36	0.17	<0.05	<0.1	<0.005	<0.005	0.01	1.1	1.2	1.26	131	0.06	0.03	0.1	0.5
556067		28.2	0.25	0.09	<0.1	<0.005	<0.005	0.02	3.0	0.6	3.95	6330	0.11	0.01	0.8	1.3
556068		26.1	0.26	0.09	<0.1	<0.005	<0.005	0.01	3.0	0.6	3.70	5850	0.13	<0.01	0.7	1.2
556069		25.7	0.37	0.08	<0.1	<0.005	<0.005	0.02	3.6	0.8	3.98	6210	0.10	0.01	1.2	1.1
556070		25.3	0.47	0.10	0.1	<0.005	<0.005	0.04	4.0	1.3	4.12	5870	0.12	0.01	1.5	1.5
556071		21.5	0.33	0.07	<0.1	<0.005	<0.005	0.02	4.1	0.8	3.69	5020	0.10	<0.01	1.1	1.2
556072		25.4	0.27	0.08	0.1	<0.005	0.005	0.02	2.9	0.4	3.94	5020	0.15	0.01	0.9	1.3
556073		28.8	0.27	0.10	<0.1	<0.005	<0.005	0.01	2.6	0.5	4.27	6270	0.09	<0.01	0.6	0.9
556074		29.4	0.27	0.06	<0.1	<0.005	<0.005	0.02	2.5	0.5	4.29	6510	0.10	<0.01	0.7	1.0
556075		30.0	0.32	0.08	0.1	<0.005	<0.005	0.02	4.0	0.5	4.45	6690	0.08	0.01	1.0	1.0
556076		30.9	0.26	0.08	<0.1	<0.005	<0.005	0.02	3.8	0.4	4.68	6450	0.08	0.01	0.7	0.9
556077		30.3	0.35	0.07	0.1	<0.005	<0.005	0.02	3.5	0.5	4.62	5770	0.07	0.01	0.7	1.0
556078		31.9	0.31	0.08	<0.1	<0.005	<0.005	0.02	5.1	0.4	4.90	5640	0.08	0.01	0.9	1.0
556079		5.73	26.9	0.15	1.7	0.011	0.166	4.74	13.0	2.5	1.65	434	1.76	3.49	14.1	64.1
556080		30.3	0.35	0.08	<0.1	<0.005	<0.005	0.03	4.0	0.5	4.62	5530	0.07	0.01	0.9	1.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 8-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244226**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
556061		170	<0.5	0.7	<0.002	0.01	0.05	0.1	<1	<0.2	11.5	<0.05	<0.05	0.09	<0.005	<0.02
556062		270	<0.5	1.4	<0.002	0.01	0.05	0.2	<1	<0.2	18.5	<0.05	<0.05	0.09	0.007	<0.02
556063		150	0.5	1.3	<0.002	0.01	0.05	0.2	<1	<0.2	17.0	<0.05	<0.05	0.09	0.006	<0.02
556064		120	<0.5	1.8	<0.002	0.01	0.05	0.2	<1	<0.2	14.0	<0.05	<0.05	0.10	0.007	<0.02
556065		130	0.5	1.2	<0.002	0.01	0.05	0.2	<1	<0.2	22.5	<0.05	<0.05	0.09	0.005	<0.02
556066		60	0.6	0.5	<0.002	<0.01	0.05	0.2	1	<0.2	82.6	<0.05	<0.05	0.05	0.005	<0.02
556067		120	<0.5	1.0	<0.002	0.01	0.06	0.2	<1	<0.2	17.0	<0.05	<0.05	0.08	0.005	<0.02
556068		120	<0.5	0.7	<0.002	<0.01	<0.05	0.1	<1	<0.2	15.1	<0.05	<0.05	0.06	<0.005	<0.02
556069		150	0.5	1.3	<0.002	0.01	0.05	0.2	<1	<0.2	22.1	<0.05	<0.05	0.13	0.006	<0.02
556070		140	0.5	2.4	<0.002	0.01	0.10	0.4	<1	<0.2	26.6	0.05	<0.05	0.17	0.010	0.04
556071		120	0.5	1.0	<0.002	0.02	0.05	0.3	<1	<0.2	27.7	<0.05	<0.05	0.12	0.006	<0.02
556072		140	0.6	1.3	<0.002	0.01	0.08	0.1	<1	<0.2	17.2	<0.05	0.05	0.09	0.005	<0.02
556073		150	<0.5	0.9	<0.002	<0.01	0.06	0.1	<1	<0.2	15.5	<0.05	<0.05	0.07	<0.005	<0.02
556074		120	<0.5	0.9	<0.002	<0.01	0.06	0.1	<1	<0.2	15.9	<0.05	<0.05	0.06	<0.005	<0.02
556075		130	<0.5	1.0	<0.002	<0.01	0.06	0.1	<1	<0.2	15.6	<0.05	<0.05	0.07	0.005	<0.02
556076		140	<0.5	1.1	<0.002	<0.01	0.05	0.1	<1	<0.2	17.6	<0.05	<0.05	0.07	0.005	<0.02
556077		110	<0.5	1.1	<0.002	<0.01	0.05	0.2	<1	<0.2	16.0	<0.05	<0.05	0.09	0.005	<0.02
556078		160	<0.5	1.2	<0.002	<0.01	0.05	0.1	1	<0.2	17.3	<0.05	<0.05	0.06	0.005	<0.02
556079		870	179.0	520	0.003	3.28	2.01	5.2	3	1.2	247	0.91	0.81	1.70	0.469	2.01
556080		140	<0.5	1.7	<0.002	0.01	0.05	0.1	<1	<0.2	16.2	<0.05	<0.05	0.08	0.005	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18244226**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
556061		0.1	8	0.2	5.4	2	4.0
556062		<0.1	8	0.2	5.8	5	3.0
556063		<0.1	8	0.2	6.0	4	2.1
556064		0.1	9	0.2	5.8	6	2.3
556065		<0.1	10	0.2	6.6	5	2.3
556066		0.1	1	0.1	2.0	2	1.3
556067		<0.1	9	0.2	6.5	6	2.2
556068		<0.1	7	0.2	5.8	5	2.0
556069		<0.1	12	0.3	6.4	5	2.8
556070		0.1	15	0.6	8.3	6	3.4
556071		0.1	11	0.2	7.0	6	3.1
556072		<0.1	8	0.3	6.6	6	2.9
556073		<0.1	6	0.1	5.8	10	1.9
556074		<0.1	6	0.1	5.7	7	1.7
556075		<0.1	7	0.2	6.2	5	2.0
556076		<0.1	7	0.1	6.2	5	1.8
556077		<0.1	7	0.1	7.1	5	2.2
556078		<0.1	7	0.1	6.7	4	2.1
556079		1.0	60	0.6	6.6	346	72.2
556080		<0.1	7	0.1	6.2	5	2.0





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**Page: Annexe 1**  
**Total # les pages d'annexe: 1**  
**Finalisée date: 8-OCT-2018**  
**Compte: MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244226**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
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## CERTIFICAT VO18244230

Projet: Kan

Bon de commande #: KANDH18-131

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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**CERTIFICAT D'ANALYSE VO18244230**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558651		4.51	0.036	0.09	6.49	25.6	240	1.39	0.04	2.70	0.19	17.80	42.3	122	6.74	94.3
558652		0.76	0.004	0.04	6.21	0.9	440	2.55	0.11	0.08	0.02	54.6	16.0	81	1.30	44.8
558653		3.44	0.005	0.14	6.10	7.8	450	3.68	0.13	0.56	0.10	56.1	16.3	78	8.18	25.6
558654		3.08	0.013	0.14	7.50	3.2	380	3.38	0.11	0.84	0.11	69.4	18.1	99	16.70	23.1
558655		4.40	0.009	0.10	7.96	0.5	470	2.52	0.13	1.04	0.27	58.9	18.8	91	9.61	25.8
558656		0.18	0.005	0.01	0.15	0.2	20	0.06	0.03	35.2	<0.02	1.56	0.7	2	0.16	1.4
558657		4.60	0.033	0.15	8.11	1.0	540	2.74	0.28	1.00	2.80	63.5	16.9	91	9.42	50.3
558658		2.59	0.008	0.17	7.78	0.2	530	2.22	0.17	0.38	14.00	56.9	19.3	75	5.95	62.8
558659		2.79	0.022	0.44	5.48	4.3	180	3.79	0.18	1.37	0.25	56.2	21.1	71	13.05	128.5
558660		4.12	0.007	0.17	6.78	9.7	300	3.26	0.13	0.29	0.15	55.5	18.2	88	16.05	33.1
558661		4.52	0.013	0.29	7.41	1.2	330	3.24	0.21	0.20	0.15	65.8	21.9	95	17.00	64.4
558662		4.30	0.007	0.15	7.94	1.7	440	2.25	0.17	0.21	0.37	51.2	13.8	79	14.10	59.6
558663		1.24	0.003	0.15	8.38	0.9	540	2.27	0.11	0.48	0.38	56.7	13.0	83	11.20	61.3
558664		3.32	<0.001	0.05	7.35	22.3	460	1.31	0.01	3.38	0.33	38.3	22.0	91	16.00	71.3
558665		4.22	0.003	0.15	5.98	78.9	120	0.46	0.01	6.44	0.27	8.14	47.5	109	1.31	110.5
558666		4.45	0.003	0.23	5.96	96.0	70	0.40	0.01	6.99	0.24	8.07	52.3	101	0.99	140.0
558667		4.30	<0.001	0.12	7.28	49.1	270	1.12	0.01	3.61	0.31	16.80	37.7	127	2.97	84.9
558668		2.22	0.007	0.24	7.50	1.0	460	2.18	0.17	1.03	0.70	49.1	14.0	82	11.25	83.8
558669		0.07	2.53	0.41	6.65	12.0	310	1.30	0.16	4.75	0.08	42.1	49.9	291	0.64	79.4
558670		4.20	0.005	0.18	7.96	1.6	440	2.62	0.18	0.42	0.19	59.0	14.5	85	13.70	85.2



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18244230**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
558651		10.30	17.35	0.08	1.3	0.019	0.065	1.24	7.8	59.5	4.70	743	0.77	0.83	4.9	81.1
558652		13.30	18.15	0.09	1.9	0.060	0.050	1.24	27.0	44.6	2.02	1800	1.78	0.02	12.0	44.5
558653		12.60	17.90	0.10	1.8	0.031	0.056	2.82	26.7	61.1	2.29	1880	2.32	0.03	13.2	42.1
558654		13.40	23.1	0.14	2.1	0.032	0.060	4.23	36.2	89.2	2.25	5060	2.53	0.04	10.0	46.1
558655		10.35	21.7	0.10	1.9	0.012	0.049	4.17	29.8	67.9	1.74	8990	1.73	0.05	7.4	39.6
558656		0.28	0.42	0.05	0.1	<0.005	<0.005	0.05	1.4	1.7	1.12	118	0.17	0.04	0.2	0.8
558657		9.84	21.8	0.10	2.2	0.083	0.065	4.67	31.9	62.8	1.64	5830	2.08	0.04	8.3	39.5
558658		8.07	21.0	0.10	1.9	0.334	0.075	4.40	29.8	53.5	1.36	1360	5.34	0.04	6.3	55.6
558659		16.05	17.95	0.10	1.7	0.009	0.053	3.70	25.7	60.9	2.04	1190	8.62	0.02	10.7	63.6
558660		11.85	19.00	0.10	1.9	0.008	0.053	4.46	27.4	64.4	1.66	1240	5.08	0.03	13.1	45.6
558661		10.60	21.6	0.13	2.4	0.009	0.055	4.92	33.7	65.4	1.37	870	2.81	0.04	14.9	59.1
558662		8.03	20.2	0.11	2.3	0.009	0.042	4.98	25.7	63.1	1.30	822	2.00	0.04	6.8	37.1
558663		6.42	23.1	0.13	2.3	0.013	0.046	5.38	29.9	71.1	1.18	363	5.13	0.04	7.2	37.8
558664		7.37	18.50	0.12	1.9	0.006	0.063	4.30	18.7	56.9	2.19	977	2.65	0.20	5.6	58.0
558665		8.19	15.40	0.07	1.0	0.011	0.072	1.71	3.0	30.4	3.56	1390	0.29	0.97	2.9	78.7
558666		8.09	15.15	0.06	0.9	0.005	0.071	1.22	3.0	32.2	3.83	1360	0.36	1.32	2.6	106.5
558667		11.65	18.45	0.07	1.7	0.006	0.065	1.91	7.7	55.3	3.77	1210	0.89	0.33	3.8	91.4
558668		7.42	21.0	0.10	2.2	0.022	0.061	4.07	24.4	60.2	1.55	685	5.10	0.04	6.6	42.5
558669		7.41	17.80	0.09	3.3	0.061	0.058	0.99	19.5	10.7	5.50	1020	3.03	1.98	26.9	342
558670		7.04	21.6	0.11	2.2	0.015	0.061	4.60	31.1	56.4	1.25	331	2.95	0.08	9.1	42.7



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18244230**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558651		350	7.5	40.6	0.004	0.33	0.37	40.4	1	0.6	92.7	0.32	0.11	1.56	0.533	0.56
558652		260	4.0	24.3	0.005	1.16	0.53	11.2	2	1.8	7.2	0.73	0.08	6.63	0.271	0.14
558653		260	14.0	85.7	0.006	1.79	0.76	11.1	2	1.3	14.8	0.80	0.05	6.75	0.271	0.80
558654		300	5.1	90.0	0.004	1.32	0.60	16.3	2	1.6	35.3	0.64	0.15	9.28	0.333	1.20
558655		340	7.0	117.5	0.003	0.90	0.65	12.5	1	1.3	39.4	0.55	0.11	8.99	0.281	0.80
558656		80	0.7	1.5	0.002	0.02	0.13	0.3	1	<0.2	84.8	<0.05	<0.05	0.15	0.009	<0.02
558657		290	8.1	124.0	0.006	1.30	1.04	12.2	3	1.6	30.5	0.61	0.10	9.68	0.299	0.79
558658		260	7.8	103.5	0.011	1.91	0.63	10.1	4	2.4	17.2	0.50	0.07	9.37	0.233	0.53
558659		590	27.8	179.0	0.009	4.54	2.82	11.0	3	1.2	95.5	0.60	0.12	5.36	0.244	1.64
558660		270	8.1	197.5	0.006	1.90	1.23	11.7	2	1.4	25.3	0.78	0.07	6.92	0.286	2.33
558661		260	19.8	194.0	0.007	2.75	2.93	13.8	3	1.6	21.1	0.97	0.11	8.68	0.352	2.58
558662		170	7.5	175.5	0.007	1.39	1.59	10.2	2	1.4	19.2	0.56	0.06	9.04	0.261	2.18
558663		170	6.2	161.0	0.011	1.56	1.85	12.5	3	1.5	32.9	0.55	0.09	9.50	0.282	1.84
558664		220	6.5	167.0	0.008	0.39	0.68	21.2	1	1.2	130.0	0.43	<0.05	6.26	0.385	2.58
558665		340	9.2	46.3	<0.002	0.16	0.34	40.6	1	0.8	194.5	0.18	<0.05	0.25	0.598	0.53
558666		310	10.7	31.9	0.002	0.09	0.29	37.8	1	0.6	200	0.15	<0.05	0.22	0.553	0.41
558667		350	3.7	55.7	0.003	0.17	0.39	36.6	1	0.7	123.5	0.26	<0.05	2.05	0.617	0.61
558668		150	18.3	151.5	0.013	1.47	2.44	11.8	3	1.5	50.5	0.52	0.09	8.70	0.265	1.79
558669		1790	5.1	27.8	<0.002	0.03	0.40	19.6	1	1.3	457	1.48	0.07	2.58	1.020	0.07
558670		300	8.5	174.5	0.008	1.51	1.87	11.5	3	1.6	27.2	0.66	0.11	9.55	0.280	2.09



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18244230**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
558651		1.1	325	0.7	7.3	87	48.9
558652		3.7	176	2.0	6.4	109	68.4
558653		4.1	180	1.9	6.9	110	68.1
558654		3.8	208	1.8	7.4	122	75.9
558655		2.8	123	1.7	5.3	165	72.3
558656		0.2	3	0.2	2.0	3	2.3
558657		3.3	144	1.7	7.0	273	80.0
558658		5.5	233	1.7	6.6	664	64.5
558659		7.0	248	1.8	8.2	151	65.4
558660		4.0	179	2.0	6.4	140	70.5
558661		6.2	223	2.1	7.4	177	86.5
558662		2.4	125	1.4	4.9	184	76.3
558663		4.0	241	1.4	6.4	136	81.4
558664		3.1	252	0.9	5.9	162	68.4
558665		0.1	302	0.4	4.7	113	34.3
558666		0.1	287	0.4	5.2	101	30.9
558667		0.9	330	0.5	5.3	227	60.0
558668		5.1	229	1.2	6.4	224	75.6
558669		0.6	141	3.3	19.0	102	135.0
558670		4.4	200	1.3	6.8	159	79.2



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Page: **Annexe 1**  
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**CERTIFICAT D'ANALYSE VO18244230**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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## CERTIFICAT VO18244231

Projet: Kan

Bon de commande #: KANDH18-RUSH-065

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18244231**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
556041		2.83	<0.001	0.01	0.13	0.3	10	0.86	0.01	1.60	0.04	5.82	5.0	<1	0.98	0.6
556042		2.61	<0.001	<0.01	0.03	0.3	<10	0.62	0.01	1.36	0.03	4.29	4.9	1	0.41	0.4
556043		2.46	<0.001	<0.01	0.01	0.5	<10	0.39	<0.01	1.15	0.02	3.87	4.4	1	0.08	0.8
556044		2.42	<0.001	0.01	0.01	<0.2	<10	0.48	<0.01	1.17	0.02	5.19	4.2	4	0.22	0.4
556045		2.45	<0.001	<0.01	0.02	0.3	<10	0.56	<0.01	1.08	<0.02	5.57	4.4	2	0.41	0.6
556046		0.22	<0.001	<0.01	0.08	0.2	20	0.07	0.01	35.9	<0.02	1.05	0.7	1	<0.05	1.2
556047		2.55	<0.001	<0.01	0.02	<0.2	<10	0.34	0.01	1.21	<0.02	4.57	4.6	3	0.21	0.8
556048		2.50	<0.001	0.01	0.02	0.7	<10	0.38	0.01	1.23	0.02	5.38	4.7	1	0.38	0.7
556049		2.62	<0.001	<0.01	0.01	0.2	<10	0.42	<0.01	1.21	<0.02	4.14	4.6	1	0.22	0.6
556050		2.61	<0.001	<0.01	0.03	0.3	<10	0.62	<0.01	1.37	<0.02	6.19	4.7	1	0.54	0.4
556051		2.62	<0.001	0.02	0.03	0.2	<10	1.06	0.01	0.90	<0.02	4.21	2.9	4	0.64	0.9
556052		2.58	<0.001	<0.01	0.05	0.5	10	0.59	0.01	1.60	<0.02	6.04	4.7	1	0.92	0.4
556053		2.59	<0.001	0.01	0.03	0.4	<10	0.91	0.01	1.22	<0.02	4.47	4.3	2	0.84	1.0
556054		2.53	<0.001	<0.01	0.03	1.3	<10	0.82	0.01	1.56	0.02	3.71	5.2	<1	0.36	0.6
556055		2.41	<0.001	0.01	0.08	1.4	10	0.72	0.01	1.30	<0.02	4.58	4.2	3	1.52	0.9
556056		2.31	<0.001	0.01	0.04	0.3	10	1.33	<0.01	1.27	<0.02	4.32	3.6	1	0.95	0.5
556057		2.58	<0.001	0.01	0.04	0.5	10	1.68	<0.01	1.15	<0.02	5.33	3.7	2	1.04	0.7
556058		2.53	<0.001	<0.01	0.03	1.0	<10	0.61	0.01	1.24	<0.02	5.39	4.0	2	0.81	2.4
556059		0.25	1.320	1.06	8.38	102.5	120	5.27	2.84	2.31	2.85	24.7	18.8	60	2.72	61.9
556060		2.56	<0.001	0.01	0.04	1.3	<10	0.38	0.01	1.23	<0.02	4.77	5.2	1	0.58	0.7



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Page: 2 - B  
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**CERTIFICAT D'ANALYSE VO18244231**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
556041		35.6	0.57	0.10	0.1	<0.005	<0.005	0.02	3.9	0.8	5.40	5970	0.06	0.01	0.9	0.9
556042		33.2	0.27	0.07	<0.1	0.007	<0.005	0.01	2.7	0.5	4.82	6600	0.08	<0.01	0.5	1.0
556043		30.6	0.20	0.08	<0.1	0.005	<0.005	<0.01	2.5	0.4	4.24	6820	0.11	<0.01	0.4	0.9
556044		30.3	0.19	0.08	<0.1	<0.005	<0.005	<0.01	3.3	0.4	4.22	6590	0.13	<0.01	0.5	1.0
556045		28.5	0.23	0.06	<0.1	<0.005	<0.005	0.01	3.5	0.3	3.93	7000	0.09	<0.01	0.5	0.8
556046		0.37	0.25	<0.05	<0.1	<0.005	<0.005	0.01	1.2	0.9	1.62	147	0.05	0.03	0.2	0.3
556047		30.7	0.25	0.08	<0.1	<0.005	<0.005	<0.01	2.8	0.4	4.18	7610	0.11	<0.01	0.5	1.1
556048		34.1	0.23	0.09	<0.1	<0.005	<0.005	0.01	3.3	0.4	4.61	8540	0.09	<0.01	0.5	0.9
556049		33.6	0.22	0.09	<0.1	<0.005	<0.005	0.01	2.6	0.3	4.61	7510	0.10	<0.01	0.6	0.9
556050		34.4	0.33	0.11	0.1	<0.005	<0.005	0.01	3.9	0.5	4.91	7520	0.07	<0.01	0.7	0.9
556051		23.9	0.27	0.07	<0.1	<0.005	<0.005	0.01	2.9	0.4	3.27	3780	0.09	0.01	0.5	0.6
556052		36.6	0.37	0.10	0.1	<0.005	<0.005	0.02	4.0	0.6	5.20	6370	0.07	0.01	1.0	0.8
556053		31.8	0.30	0.09	<0.1	0.006	<0.005	0.01	3.0	0.4	4.39	5340	0.10	0.01	0.5	0.8
556054		36.1	0.29	0.09	<0.1	0.009	<0.005	0.01	2.4	0.5	5.31	6300	0.10	<0.01	0.6	0.8
556055		25.1	0.42	0.07	<0.1	0.007	<0.005	0.03	3.0	0.5	3.63	4480	0.14	0.01	0.5	0.9
556056		32.4	0.31	0.09	<0.1	<0.005	<0.005	0.02	2.9	0.4	4.58	6560	0.16	0.01	0.7	0.9
556057		31.2	0.32	0.08	<0.1	0.007	<0.005	0.02	3.7	0.4	4.27	6200	0.11	0.01	0.6	0.7
556058		31.3	0.29	0.09	<0.1	0.006	<0.005	0.01	3.8	0.4	4.04	6860	0.12	0.01	0.4	0.8
556059		5.41	26.8	0.17	1.8	<0.005	0.105	4.34	11.7	2.8	1.78	458	1.45	3.78	15.7	69.5
556060		33.1	0.33	0.10	0.1	<0.005	<0.005	0.02	3.3	0.5	4.42	8880	0.16	0.01	0.6	1.2



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18244231**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
556041		220	0.6	1.1	<0.002	<0.01	0.09	0.2	<1	<0.2	40.5	0.05	<0.05	0.09	<0.005	<0.02
556042		80	<0.5	0.5	<0.002	<0.01	0.06	0.1	<1	<0.2	25.6	<0.05	<0.05	0.05	<0.005	<0.02
556043		120	<0.5	0.1	<0.002	0.01	0.07	0.1	<1	<0.2	18.9	<0.05	<0.05	0.05	<0.005	<0.02
556044		210	<0.5	0.2	<0.002	<0.01	0.07	0.1	<1	<0.2	18.2	<0.05	<0.05	0.07	<0.005	<0.02
556045		160	<0.5	0.4	<0.002	0.01	0.09	0.1	<1	<0.2	14.7	<0.05	<0.05	0.06	<0.005	<0.02
556046		60	0.9	0.4	<0.002	<0.01	0.08	0.3	1	<0.2	88.2	<0.05	<0.05	0.06	0.005	<0.02
556047		120	<0.5	0.3	<0.002	0.01	0.07	0.1	<1	<0.2	16.5	<0.05	<0.05	0.05	<0.005	<0.02
556048		240	<0.5	0.4	<0.002	0.01	0.07	0.1	<1	<0.2	17.3	<0.05	<0.05	0.06	<0.005	<0.02
556049		60	0.8	0.4	<0.002	0.01	0.06	0.1	<1	<0.2	15.4	<0.05	<0.05	0.05	<0.005	<0.02
556050		80	<0.5	0.6	<0.002	<0.01	0.06	0.1	<1	<0.2	17.3	<0.05	<0.05	0.09	<0.005	<0.02
556051		190	<0.5	0.7	<0.002	0.02	0.07	0.1	<1	<0.2	10.1	<0.05	<0.05	0.06	<0.005	<0.02
556052		220	<0.5	1.0	<0.002	<0.01	0.06	0.1	<1	<0.2	21.5	<0.05	<0.05	0.09	<0.005	<0.02
556053		140	<0.5	0.9	<0.002	0.02	0.06	0.1	<1	<0.2	12.5	<0.05	<0.05	0.05	<0.005	<0.02
556054		70	<0.5	0.4	<0.002	<0.01	0.05	0.1	<1	<0.2	18.1	<0.05	<0.05	0.06	<0.005	<0.02
556055		140	<0.5	1.6	<0.002	0.03	0.06	0.1	<1	<0.2	20.6	<0.05	<0.05	0.05	<0.005	<0.02
556056		100	<0.5	1.0	<0.002	0.01	0.06	0.1	<1	<0.2	16.0	<0.05	<0.05	0.07	<0.005	<0.02
556057		160	<0.5	1.1	<0.002	0.02	0.05	0.1	<1	<0.2	13.8	<0.05	<0.05	0.06	<0.005	<0.02
556058		200	<0.5	0.9	<0.002	0.03	0.07	0.1	<1	<0.2	15.1	<0.05	<0.05	0.04	<0.005	<0.02
556059		970	157.0	392	0.003	2.73	1.62	5.5	4	1.2	261	1.07	0.50	1.49	0.514	1.44
556060		110	<0.5	0.9	<0.002	0.01	<0.05	0.1	<1	<0.2	15.8	<0.05	<0.05	0.06	<0.005	<0.02



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18244231**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
556041		0.1	12	0.1	6.6	6	3.7
556042		<0.1	5	0.2	5.1	4	2.7
556043		<0.1	3	0.1	4.2	6	1.6
556044		<0.1	3	0.1	4.7	5	1.7
556045		<0.1	4	0.1	5.4	3	2.3
556046		0.1	1	<0.1	3.0	4	1.6
556047		<0.1	4	0.1	4.4	4	2.1
556048		<0.1	4	0.1	5.8	4	2.5
556049		<0.1	3	0.1	5.2	4	2.0
556050		<0.1	7	0.2	6.9	3	3.4
556051		<0.1	8	0.1	5.8	2	2.7
556052		<0.1	11	0.3	7.6	3	3.5
556053		<0.1	8	0.2	5.6	2	2.5
556054		<0.1	9	0.2	5.5	7	3.0
556055		<0.1	10	0.2	5.6	4	2.5
556056		<0.1	8	0.2	5.0	3	2.4
556057		<0.1	10	0.2	5.2	3	2.3
556058		<0.1	8	0.1	6.7	3	2.3
556059		0.7	65	0.6	6.8	240	77.4
556060		<0.1	8	0.2	5.8	3	3.0



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**Page: Annexe 1**  
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**Finalisée date: 8-OCT-2018**  
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**CERTIFICAT D'ANALYSE VO18244231**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
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## CERTIFICAT VO18244233

Projet: Kan

Bon de commande #: KANDH18-132

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18244233**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558671		0.86	0.006	0.20	7.80	0.7	440	2.23	0.23	0.47	0.05	48.6	14.3	80	7.50	118.5
558672		3.30	<0.001	0.12	6.92	42.5	320	1.30	0.08	3.09	0.37	26.1	29.0	108	3.41	62.2
558673		3.69	<0.001	0.20	6.41	76.3	230	1.24	0.01	4.86	0.53	8.95	41.9	124	2.19	96.7
558674		3.08	0.034	1.38	5.70	6.2	160	1.68	0.30	0.44	1.38	57.1	20.5	76	2.67	236
558675		3.89	0.037	1.52	6.59	10.4	180	1.40	0.44	0.90	4.22	77.4	26.0	69	3.46	220
558676		0.22	<0.001	0.01	0.23	1.2	360	0.08	0.02	20.4	0.06	1.66	0.5	2	0.82	1.8
558677		4.62	0.009	0.63	8.74	14.7	240	1.67	0.25	0.83	1.88	65.8	24.5	98	4.60	114.5
558678		4.39	0.016	0.75	9.07	39.9	240	1.83	0.22	0.78	2.20	64.5	24.5	93	4.35	128.0
558679		5.18	0.033	1.05	6.81	99.7	200	2.24	0.28	3.55	4.82	63.2	19.5	70	4.12	83.9
558680		5.05	0.051	1.39	6.19	153.5	130	2.38	0.42	1.78	9.39	54.6	31.0	70	3.90	136.5
558681		4.31	0.039	1.66	4.30	109.5	140	1.93	0.23	3.31	18.10	67.2	25.4	63	3.73	271
558682		4.24	0.038	2.15	2.01	133.0	70	0.98	0.32	2.14	14.85	47.0	11.5	49	2.32	403
558683		4.63	0.043	2.02	1.81	401	60	0.80	0.31	2.57	14.70	49.9	22.6	48	2.12	374
558684		4.70	0.038	1.81	1.89	418	60	0.69	0.23	3.49	15.05	45.2	17.7	45	2.28	264
558685		4.13	0.052	2.69	2.52	82.4	90	1.05	0.35	2.03	25.1	49.9	7.2	54	2.94	325
558686		5.05	0.040	1.26	6.68	172.0	140	2.21	0.38	1.35	7.37	56.3	22.6	74	4.44	100.0
558687		4.64	0.053	1.13	6.07	131.5	140	1.60	0.37	1.58	7.77	58.3	26.6	72	4.01	110.0
558688		4.17	0.045	1.88	4.88	108.5	140	1.41	0.30	1.90	13.35	55.3	23.1	65	3.69	168.5
558689		0.20	8.63	1.70	7.58	108.5	200	3.43	3.88	2.00	4.29	25.4	17.4	54	2.56	110.0
558690		4.66	0.047	1.52	6.21	131.0	190	1.58	0.32	1.19	10.30	67.2	20.7	73	4.12	158.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 20-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244233**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558671		7.18	21.2	0.11	2.1	0.011	0.053	4.31	23.7	57.1	1.23	281	3.62	0.06	6.8	41.6
558672		7.71	17.75	0.08	1.5	0.011	0.054	2.70	13.1	52.0	3.05	747	2.33	0.11	4.1	74.9
558673		9.44	16.25	0.08	1.5	0.015	0.073	1.84	3.5	48.7	3.73	1250	0.26	0.39	3.2	97.8
558674		23.8	16.50	0.12	3.8	0.075	0.087	2.67	31.1	29.0	0.73	263	14.10	0.10	7.8	152.0
558675		20.9	20.2	0.13	4.5	0.199	0.133	3.04	43.4	27.6	0.92	424	18.30	0.17	12.2	140.0
558676		0.20	0.56	0.08	0.2	<0.005	<0.005	0.11	0.8	22.6	13.85	300	0.17	0.03	0.4	0.8
558677		11.50	22.7	0.12	4.2	0.089	0.098	4.00	39.1	26.3	0.89	380	9.96	0.59	9.3	90.6
558678		11.90	23.4	0.12	3.9	0.196	0.086	3.77	38.1	26.5	0.85	393	11.25	1.17	8.4	117.5
558679		12.30	18.75	0.14	2.9	0.421	0.079	3.25	38.4	23.9	1.80	1320	19.45	0.28	10.2	113.0
558680		16.10	16.15	0.12	1.9	0.679	0.066	2.90	32.2	22.3	1.01	869	30.5	0.15	6.6	163.0
558681		15.25	11.20	0.15	2.4	0.537	0.091	2.03	40.7	17.9	1.51	2800	99.0	0.07	6.6	195.0
558682		18.10	5.95	0.15	1.4	0.460	0.070	0.76	30.4	15.8	1.31	3190	144.0	0.02	4.7	287
558683		18.00	5.63	0.14	1.2	0.435	0.063	0.56	32.9	16.3	1.52	3460	146.5	0.02	3.5	270
558684		16.80	5.47	0.13	1.2	0.446	0.077	0.66	27.5	13.2	1.80	4660	132.0	0.02	3.0	251
558685		15.90	7.13	0.16	1.7	0.728	0.129	1.03	32.7	12.5	0.90	2280	146.5	0.05	3.9	271
558686		14.35	17.50	0.13	2.4	0.666	0.069	3.01	32.9	27.7	0.97	744	32.8	0.13	7.0	151.5
558687		13.50	15.70	0.13	2.5	0.528	0.077	2.69	35.0	23.4	1.00	885	46.8	0.13	6.8	130.5
558688		13.45	12.50	0.13	2.2	0.609	0.109	2.10	34.9	20.7	1.04	1400	89.6	0.09	5.6	165.0
558689		5.45	25.1	0.10	1.6	0.015	0.169	4.75	12.7	2.6	1.60	415	1.53	3.35	12.8	61.7
558690		14.35	16.50	0.15	2.8	0.610	0.110	2.74	40.7	22.7	0.82	751	52.9	0.14	7.4	172.5





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 20-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244233**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558671		150	6.9	138.5	0.009	1.72	1.76	10.9	3	1.4	25.4	0.54	0.11	8.83	0.260	1.51
558672		250	6.5	85.6	0.005	0.47	1.00	25.9	2	0.9	123.5	0.31	0.06	4.30	0.397	0.75
558673		360	5.0	60.1	0.003	0.02	0.49	40.0	1	1.0	182.0	0.17	<0.05	0.23	0.619	0.56
558674		310	29.7	71.5	0.024	>10.0	8.59	12.1	5	2.1	26.6	0.41	0.66	4.74	0.151	2.64
558675		230	37.5	80.0	0.024	>10.0	12.65	11.2	4	2.4	54.6	0.75	0.84	6.65	0.175	3.36
558676		30	3.2	3.5	<0.002	0.06	0.24	0.3	1	<0.2	174.0	<0.05	<0.05	0.13	0.010	0.12
558677		220	15.5	93.6	0.011	6.08	5.16	18.0	4	2.2	50.9	0.52	0.40	5.17	0.285	3.97
558678		220	27.4	89.9	0.013	7.56	9.24	17.3	4	2.0	54.5	0.48	0.33	4.76	0.314	4.07
558679		250	50.3	83.5	0.026	9.32	17.05	12.2	6	1.9	75.2	0.58	0.64	4.95	0.241	4.58
558680		660	67.4	76.4	0.034	>10.0	25.7	9.9	12	1.4	46.2	0.38	0.83	4.32	0.174	5.08
558681		1710	55.1	58.9	0.071	9.72	17.80	7.3	16	1.4	75.8	0.45	0.36	4.41	0.126	3.25
558682		3100	84.1	24.1	0.085	9.99	23.4	4.3	21	0.9	49.4	0.22	0.48	3.01	0.054	1.67
558683		3700	86.0	19.7	0.086	>10.0	26.0	4.2	21	0.7	54.9	0.20	0.46	2.66	0.048	1.29
558684		3420	58.6	21.6	0.079	10.00	19.00	3.9	19	0.8	66.5	0.20	0.40	2.83	0.056	1.42
558685		2170	70.6	33.2	0.114	9.66	22.3	4.9	20	1.1	63.1	0.25	0.43	3.66	0.069	2.23
558686		360	64.2	79.7	0.040	>10.0	32.1	11.1	9	1.6	45.6	0.41	0.89	4.61	0.174	5.21
558687		680	49.1	69.4	0.045	>10.0	18.85	10.5	9	1.6	50.6	0.43	0.76	4.63	0.167	4.41
558688		1420	47.4	57.7	0.068	>10.0	17.20	7.9	11	1.4	53.8	0.36	0.58	4.24	0.125	3.56
558689		860	169.5	470	0.004	3.23	2.13	4.8	3	1.2	233	0.81	0.96	1.36	0.452	1.99
558690		810	54.4	72.2	0.054	>10.0	20.9	10.4	11	1.6	45.6	0.48	0.62	5.13	0.171	4.45



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 20-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244233**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
558671		3.4	203	1.0	5.5	129	72.7
558672		2.3	278	0.7	5.2	166	55.2
558673		0.1	319	0.5	4.6	132	45.4
558674		12.9	163	1.1	12.2	314	143.0
558675		13.1	195	1.5	13.4	1000	175.0
558676		0.2	3	0.2	1.1	15	5.7
558677		10.5	152	1.4	11.8	440	154.5
558678		11.8	171	1.3	11.6	456	141.5
558679		14.1	226	1.8	10.9	856	109.0
558680		18.0	338	1.6	10.0	1510	73.0
558681		46.8	909	2.3	27.6	2790	96.3
558682		54.9	1200	2.3	28.9	2340	55.6
558683		58.2	1150	2.1	33.2	2210	48.6
558684		55.5	1190	2.4	29.8	2460	44.4
558685		68.8	1320	3.2	35.1	4010	69.5
558686		19.2	354	1.8	11.8	1250	93.3
558687		24.9	465	1.8	15.5	1380	91.0
558688		41.6	806	2.0	24.2	2290	86.1
558689		0.9	57	0.5	6.1	332	68.1
558690		26.8	524	1.7	17.7	1760	105.5



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **20-OCT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244233**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 9-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18244235

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Bon de commande #: KANDH18-RUSH-067

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244235**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
556081		2.85	<0.001	<0.01	0.05	0.4	<10	0.70	0.01	2.04	<0.02	5.48	4.6	4	1.14	2.7
556082		2.66	<0.001	<0.01	0.03	<0.2	<10	0.53	<0.01	1.50	<0.02	5.18	4.3	5	0.70	2.8
556083		2.56	<0.001	<0.01	0.04	0.3	<10	0.83	<0.01	1.43	<0.02	4.97	4.1	1	1.01	2.6
556084		2.64	<0.001	<0.01	0.02	0.9	<10	1.20	0.01	1.45	<0.02	4.54	4.1	2	0.48	2.3
556085		2.62	<0.001	<0.01	0.03	0.7	<10	1.02	0.01	1.60	<0.02	5.27	4.2	2	0.89	2.9
556086		0.28	<0.001	<0.01	0.13	<0.2	20	0.05	0.01	35.6	<0.02	1.04	0.6	<1	<0.05	1.0
556087		2.30	<0.001	0.01	0.02	0.4	<10	0.50	0.01	1.47	0.02	3.53	3.8	4	0.66	3.4
556088		2.66	<0.001	0.04	0.02	78.8	<10	1.10	0.08	1.11	0.02	5.01	7.3	4	0.53	8.9
556089		2.55	<0.001	0.01	0.04	0.6	<10	1.00	0.07	1.47	<0.02	5.29	4.3	3	1.18	2.6
556090		2.16	<0.001	0.01	0.03	0.3	<10	0.84	0.07	1.37	0.02	4.84	4.3	2	0.83	2.2
556091		2.54	<0.001	0.01	0.03	1.2	<10	0.81	0.09	1.43	<0.02	4.17	4.1	3	0.89	1.9
556092		2.63	<0.001	<0.01	0.03	<0.2	<10	0.50	0.07	1.52	0.03	3.95	3.5	6	0.79	2.3
556093		2.65	<0.001	<0.01	0.03	1.1	<10	0.61	0.08	1.33	0.02	4.74	4.5	3	0.83	1.9
556094		2.56	<0.001	0.01	0.02	1.8	<10	0.69	0.07	1.68	0.03	4.57	5.2	4	0.60	2.1
556095		2.47	<0.001	0.01	0.03	0.4	10	0.34	0.06	1.22	0.02	4.05	4.3	3	0.43	2.6
556096		2.25	<0.001	0.01	0.02	3.2	<10	0.37	0.05	1.39	0.03	3.89	5.4	3	0.36	1.4
556097		2.61	<0.001	<0.01	0.02	1.5	<10	0.57	0.06	1.31	0.03	4.27	4.6	2	0.56	4.2
556098		2.73	<0.001	<0.01	0.03	1.1	<10	1.09	0.06	1.24	<0.02	4.26	4.5	2	1.02	0.6
556099		0.20	1.325	1.03	7.70	103.5	120	4.84	2.66	2.07	2.69	24.6	17.9	59	2.62	57.0
556100		2.66	<0.001	<0.01	0.03	1.3	<10	0.98	0.05	0.94	<0.02	3.41	4.0	5	0.74	3.6



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 9-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244235**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
556081		31.0	0.34	0.10	<0.1	0.007	<0.005	0.02	3.7	0.4	4.73	5590	0.16	0.01	0.7	1.2
556082		28.0	0.27	0.08	0.1	<0.005	<0.005	0.01	3.4	0.4	4.24	5940	0.11	0.01	0.5	1.2
556083		28.8	0.24	0.08	<0.1	<0.005	<0.005	0.02	3.3	0.4	4.55	4920	0.10	0.01	0.6	1.0
556084		31.1	0.21	0.08	<0.1	<0.005	<0.005	0.01	3.1	0.4	4.63	4910	0.15	<0.01	0.5	1.1
556085		31.9	0.26	0.09	<0.1	<0.005	<0.005	0.02	3.5	0.4	4.83	6220	0.10	0.01	1.3	1.1
556086		0.35	0.38	<0.05	0.1	<0.005	0.006	0.08	1.2	1.0	1.69	144	0.05	0.04	0.2	0.3
556087		25.6	0.20	0.07	<0.1	<0.005	<0.005	0.01	2.2	0.3	4.02	5120	0.10	<0.01	0.4	1.3
556088		27.6	0.28	0.10	<0.1	<0.005	<0.005	0.01	3.2	0.3	4.20	4350	0.41	<0.01	0.3	2.5
556089		28.3	0.34	0.10	<0.1	<0.005	<0.005	0.02	3.5	0.3	4.46	5190	0.26	0.01	0.6	1.6
556090		31.6	0.39	0.12	<0.1	<0.005	<0.005	0.01	3.2	0.3	4.84	8660	0.18	0.01	0.5	1.3
556091		26.6	0.35	0.09	<0.1	<0.005	<0.005	0.01	2.6	0.2	4.10	6760	0.14	0.01	0.7	1.1
556092		23.5	0.30	0.09	<0.1	0.005	<0.005	0.01	2.5	0.3	3.76	4870	0.13	0.01	0.4	1.0
556093		28.0	0.30	0.10	<0.1	<0.005	<0.005	0.01	3.2	0.3	4.23	4180	0.15	0.01	0.6	1.1
556094		28.2	0.29	0.11	<0.1	<0.005	<0.005	0.01	2.8	0.4	4.42	4380	0.12	<0.01	0.7	1.3
556095		29.3	0.32	0.10	<0.1	<0.005	<0.005	0.01	2.6	0.4	4.49	4820	0.13	0.01	0.3	1.1
556096		28.3	0.29	0.11	<0.1	<0.005	<0.005	0.01	2.6	0.3	4.33	5420	0.13	<0.01	0.4	1.4
556097		28.6	0.32	0.11	<0.1	<0.005	<0.005	0.01	2.8	0.4	4.28	4410	0.13	<0.01	0.3	1.3
556098		28.7	0.55	0.11	<0.1	<0.005	<0.005	0.02	2.8	0.3	4.12	11700	0.10	0.01	0.5	1.0
556099		5.06	23.8	0.09	1.7	0.008	0.099	4.20	11.0	2.6	1.69	454	1.37	3.51	15.1	67.2
556100		22.3	0.46	0.09	<0.1	<0.005	<0.005	0.02	2.3	0.5	3.38	8220	0.12	0.01	0.4	1.3



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244235**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
556081		90	<0.5	1.1	<0.002	0.03	0.06	0.2	<1	<0.2	25.3	<0.05	<0.05	0.07	<0.005	<0.02
556082		90	<0.5	0.6	<0.002	<0.01	0.06	0.1	<1	0.3	21.7	<0.05	<0.05	0.06	<0.005	<0.02
556083		110	<0.5	0.9	<0.002	<0.01	0.05	0.1	<1	0.2	17.9	<0.05	<0.05	0.05	<0.005	<0.02
556084		150	<0.5	0.4	<0.002	<0.01	0.07	0.1	<1	0.2	16.8	<0.05	0.05	0.04	<0.005	<0.02
556085		140	<0.5	0.8	<0.002	<0.01	0.06	0.1	<1	0.2	19.8	<0.05	<0.05	0.06	<0.005	<0.02
556086		60	<0.5	1.9	<0.002	<0.01	0.05	0.2	1	<0.2	84.2	<0.05	<0.05	0.08	<0.005	0.02
556087		110	<0.5	0.6	<0.002	0.01	0.07	0.1	<1	0.3	18.1	<0.05	<0.05	0.05	<0.005	<0.02
556088		150	2.9	0.5	<0.002	0.13	0.31	0.3	<1	0.4	12.8	<0.05	0.10	0.04	<0.005	<0.02
556089		100	1.3	1.0	<0.002	<0.01	0.15	0.2	<1	0.2	21.8	<0.05	<0.05	0.06	<0.005	<0.02
556090		90	1.0	0.7	<0.002	<0.01	0.12	0.2	<1	0.2	19.4	<0.05	<0.05	0.06	<0.005	<0.02
556091		70	0.7	0.8	<0.002	<0.01	0.11	0.2	<1	0.2	18.1	<0.05	0.06	0.05	<0.005	<0.02
556092		90	0.6	0.7	<0.002	<0.01	0.08	0.2	<1	0.2	25.1	<0.05	<0.05	0.04	<0.005	<0.02
556093		150	0.6	0.7	<0.002	<0.01	0.07	0.2	<1	0.2	18.7	<0.05	<0.05	0.04	<0.005	<0.02
556094		290	0.7	0.5	<0.002	0.01	0.07	0.2	<1	0.2	25.7	<0.05	<0.05	0.04	<0.005	<0.02
556095		140	0.7	0.5	<0.002	0.02	0.06	0.2	<1	0.2	16.4	<0.05	<0.05	0.04	<0.005	<0.02
556096		70	0.6	0.3	<0.002	0.01	0.08	0.2	<1	0.2	24.7	<0.05	<0.05	0.05	<0.005	<0.02
556097		100	0.7	0.5	<0.002	0.07	0.07	0.1	<1	0.3	21.1	<0.05	<0.05	0.03	<0.005	<0.02
556098		200	0.7	1.0	<0.002	0.01	0.07	0.2	<1	<0.2	17.2	<0.05	0.06	0.07	<0.005	<0.02
556099		950	147.5	372	0.002	2.77	1.54	5.3	4	1.2	251	1.05	0.42	1.33	0.499	1.42
556100		70	0.6	1.1	<0.002	0.01	0.07	0.2	<1	0.3	12.5	<0.05	<0.05	0.04	<0.005	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 9-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244235**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
556081		<0.1	7	0.1	6.5	5	2.1
556082		0.1	6	0.1	5.3	4	3.0
556083		<0.1	8	0.1	6.2	4	3.1
556084		<0.1	9	0.1	5.7	4	2.3
556085		<0.1	8	0.2	6.1	3	2.3
556086		0.1	2	0.2	2.7	3	1.8
556087		<0.1	8	0.1	5.9	5	3.1
556088		<0.1	11	0.1	7.1	8	1.8
556089		<0.1	9	0.2	6.8	6	2.7
556090		<0.1	6	0.2	6.2	6	3.1
556091		<0.1	6	0.1	6.2	4	2.6
556092		<0.1	6	0.1	6.0	7	2.7
556093		<0.1	10	0.2	6.2	6	2.2
556094		<0.1	9	0.1	7.4	9	2.3
556095		<0.1	9	0.2	5.8	12	2.1
556096		<0.1	7	0.2	6.1	12	2.4
556097		<0.1	8	0.1	7.2	11	2.0
556098		<0.1	6	0.2	7.9	4	3.0
556099		0.7	61	0.6	6.6	257	74.3
556100		<0.1	7	0.1	6.3	5	2.3





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **9-OCT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244235**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 19-OCT-2018  
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## CERTIFICAT VO18244238

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Bon de commande #: KANDH18-133

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 19-OCT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244238**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558691		4.39	0.033	1.32	7.78	110.0	210	1.77	0.29	2.29	4.52	68.5	20.6	77	4.92	118.0
558692		4.74	0.025	1.27	7.18	109.5	170	1.57	0.25	1.38	5.20	59.0	20.0	75	4.25	147.0
558693		4.61	0.014	0.87	9.42	62.9	270	2.01	0.24	0.31	2.06	62.9	23.4	102	5.52	115.5
558694		4.39	0.010	0.84	9.13	63.5	260	1.74	0.22	0.29	2.00	53.8	23.0	96	5.17	148.0
558695		4.47	0.012	0.82	9.13	66.9	250	1.73	0.26	0.73	2.78	66.9	21.8	90	4.95	122.5
558696		0.21	<0.001	<0.01	0.10	0.5	20	0.05	0.01	36.0	0.02	1.12	0.5	2	0.06	1.2
558697		5.15	0.014	0.83	9.10	77.1	260	1.63	0.30	0.52	2.94	67.4	24.1	88	5.11	111.5
558698		4.85	0.006	0.59	9.20	54.3	230	1.39	0.19	1.37	1.42	67.9	20.0	112	5.19	123.5
558699		4.25	0.014	0.89	7.75	81.6	210	1.01	0.21	2.75	2.77	62.5	17.8	75	4.25	122.5
558700		5.04	0.021	0.99	7.95	106.5	230	1.72	0.18	2.17	3.90	64.0	19.4	80	4.82	113.5
558701		4.30	0.040	1.47	6.68	143.5	150	1.75	0.31	1.39	6.27	62.2	21.2	72	4.43	118.5
558702		4.51	0.040	1.47	3.10	86.3	100	0.98	0.25	2.36	15.00	54.1	19.3	65	2.83	353
558703		4.68	0.050	2.05	2.45	24.0	70	0.70	0.17	2.41	14.40	42.1	3.2	45	1.89	608
558704		4.81	0.070	3.14	2.88	37.9	120	1.01	0.27	1.59	37.5	64.7	7.8	63	3.07	621
558705		4.50	0.073	3.16	3.03	61.3	110	0.82	0.27	1.80	24.8	51.6	11.6	66	3.06	533
558706		4.42	0.050	1.83	3.71	160.0	120	0.97	0.29	4.96	9.80	51.2	17.1	52	3.48	254
558707		5.21	0.055	1.59	5.88	229	90	1.56	0.39	1.40	6.47	50.5	19.4	68	4.07	115.5
558708		4.54	0.024	0.88	5.74	135.0	160	1.18	0.20	3.86	5.83	56.0	16.8	60	3.30	142.0
558709		0.19	1.340	1.09	7.92	100.5	120	4.08	2.66	2.36	2.88	23.6	17.6	59	2.48	61.4
558710		4.73	0.059	1.35	6.06	156.5	150	1.34	0.22	2.39	6.24	55.4	17.3	67	3.73	116.5



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 19-OCT-2018  
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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558691		11.95	21.3	0.12	3.8	0.470	0.100	3.60	40.7	25.6	1.31	723	26.8	0.26	11.1	142.5
558692		13.10	18.20	0.13	2.8	0.501	0.112	3.17	35.4	25.5	0.97	586	35.0	0.20	6.9	150.0
558693		9.83	24.9	0.13	4.1	0.217	0.099	4.46	35.9	35.7	0.69	143	12.00	0.30	9.8	114.5
558694		11.40	23.6	0.12	3.8	0.269	0.088	4.22	30.3	33.4	0.61	141	11.55	0.25	8.2	138.5
558695		10.80	23.5	0.13	4.7	0.301	0.111	4.08	38.2	33.7	0.63	201	13.20	0.23	12.4	123.0
558696		0.16	0.27	0.06	<0.1	<0.005	<0.005	0.03	1.2	1.0	1.35	92	0.10	0.02	0.1	0.2
558697		10.80	24.2	0.11	4.7	0.301	0.104	4.08	37.4	27.6	0.67	192	14.00	0.32	12.8	122.0
558698		9.60	23.2	0.13	4.2	0.183	0.090	3.95	40.2	27.2	1.12	372	12.30	0.42	8.5	108.5
558699		11.25	19.60	0.13	3.4	0.323	0.089	3.15	37.7	21.1	1.47	666	14.35	0.70	8.9	123.5
558700		11.80	21.3	0.10	3.5	0.434	0.094	3.46	36.5	23.7	1.26	620	16.35	0.39	8.9	138.5
558701		13.10	18.10	0.11	3.1	0.587	0.078	2.97	37.4	22.6	0.92	602	38.7	0.27	7.7	170.0
558702		15.40	8.60	0.15	2.0	0.478	0.077	1.06	31.8	20.6	1.46	1940	91.9	0.04	4.4	292
558703		17.55	6.92	0.12	1.4	0.271	0.065	0.64	24.4	18.3	1.58	2300	106.5	0.03	3.0	387
558704		17.50	8.48	0.19	2.2	0.658	0.162	1.06	43.4	16.5	0.91	1310	169.0	0.03	3.6	423
558705		15.45	8.10	0.17	1.9	0.596	0.143	1.12	35.0	16.0	1.00	1440	138.5	0.05	3.5	370
558706		14.15	9.22	0.12	1.6	0.574	0.095	1.49	31.9	19.0	2.36	1490	80.8	0.26	6.1	233
558707		16.50	15.60	0.15	2.1	0.914	0.111	2.77	27.3	22.3	0.83	335	36.5	0.16	5.6	186.5
558708		13.65	14.85	0.10	2.7	0.575	0.115	2.42	32.2	19.9	1.84	864	18.80	0.49	7.9	152.0
558709		5.31	23.9	0.09	1.7	<0.005	0.094	4.28	11.4	2.3	1.77	443	1.41	3.64	13.7	64.2
558710		14.45	15.25	0.11	2.1	0.717	0.104	2.77	32.5	20.2	1.22	505	27.0	0.22	6.0	168.5



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 19-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244238**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558691		380	53.7	88.6	0.030	9.81	17.85	13.4	7	2.0	67.7	0.70	0.55	5.67	0.252	5.90
558692		520	44.3	76.8	0.032	>10.0	14.05	11.9	8	1.5	48.4	0.40	0.50	4.54	0.215	5.03
558693		240	32.7	100.5	0.016	7.48	9.61	21.1	4	2.0	43.3	0.58	0.45	5.11	0.361	6.58
558694		220	30.7	93.9	0.015	8.59	9.06	17.5	4	2.0	40.8	0.45	0.41	4.45	0.313	6.22
558695		260	31.9	94.0	0.017	8.18	9.34	16.1	3	2.3	42.0	0.74	0.50	5.67	0.322	6.12
558696		60	0.5	0.7	<0.002	0.02	0.14	0.2	1	<0.2	84.4	<0.05	<0.05	0.08	0.006	0.03
558697		220	35.9	97.0	0.019	8.54	10.50	14.9	3	2.3	44.8	0.87	0.48	6.12	0.290	6.44
558698		260	21.8	93.0	0.018	6.53	6.06	19.6	3	2.0	63.5	0.48	0.39	5.26	0.293	6.00
558699		200	36.6	78.7	0.017	8.54	9.12	13.4	3	1.7	76.8	0.51	0.40	5.04	0.240	5.19
558700		230	47.9	85.6	0.017	9.97	12.75	12.8	6	2.0	65.7	0.52	0.43	5.11	0.233	6.11
558701		300	59.6	79.4	0.037	>10.0	19.30	11.0	8	1.8	48.5	0.47	0.74	4.98	0.183	5.72
558702		1670	35.2	33.7	0.080	9.85	8.08	6.0	19	0.9	51.8	0.27	0.47	4.41	0.084	2.66
558703		2100	28.9	20.6	0.067	9.02	5.25	4.7	25	0.7	47.7	0.19	0.18	3.13	0.063	1.65
558704		2250	44.0	35.8	0.157	>10.0	8.62	5.8	30	1.1	42.2	0.26	0.27	4.53	0.071	2.70
558705		1920	44.2	36.2	0.129	9.71	8.57	5.8	25	1.1	50.1	0.24	0.33	4.17	0.078	2.73
558706		850	54.5	48.1	0.074	>10.0	15.50	6.9	14	1.0	106.5	0.37	0.46	4.04	0.115	3.48
558707		430	79.6	73.9	0.045	>10.0	25.2	9.0	10	1.3	47.3	0.33	0.75	4.19	0.130	6.01
558708		300	40.5	65.9	0.028	>10.0	10.75	10.0	7	1.3	83.0	0.47	0.43	4.46	0.162	4.63
558709		960	147.5	386	0.002	2.71	1.64	4.8	3	1.1	253	0.97	0.43	1.25	0.496	1.46
558710		330	62.4	75.4	0.035	>10.0	15.75	10.1	7	1.3	60.1	0.35	0.33	4.25	0.139	5.88



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 19-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244238**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
558691	0.1	18.2	390	1.7	13.9	911	139.0
558692	0.1	18.7	386	1.3	12.2	1040	109.0
558693	0.1	14.0	191	1.2	10.9	436	150.5
558694	0.1	12.5	178	1.1	10.6	437	140.5
558695	0.1	12.1	196	1.1	13.4	630	170.0
558696	0.2	0.2	2	<0.1	1.8	4	1.6
558697	0.2	12.9	205	1.1	12.5	643	165.5
558698	0.2	11.3	176	1.1	11.4	345	153.0
558699	0.2	12.6	197	1.1	11.0	645	126.0
558700	0.2	13.8	220	1.6	11.5	764	133.0
558701	0.2	21.7	435	1.8	12.6	1040	116.0
558702	0.2	41.0	1110	3.1	21.4	2300	80.4
558703	0.2	46.1	1020	2.5	21.6	2120	55.3
558704	0.2	89.2	1520	3.0	36.2	5330	85.2
558705	0.2	70.1	1310	2.7	28.8	3860	74.5
558706	0.2	35.4	809	2.4	16.9	1610	63.7
558707	0.2	19.9	358	1.4	9.6	1220	82.1
558708	0.2	12.3	202	1.1	10.6	1200	102.5
558709	0.2	0.6	62	0.7	6.1	236	71.3
558710	0.2	16.6	293	1.2	9.8	1280	76.6



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **19-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244238**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 9-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18244241

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Bon de commande #: KANDH18-RUSH-064

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244241**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
556021		2.40	<0.001	0.02	0.51	0.5	<10	0.92	0.05	1.72	0.02	14.00	8.0	14	0.18	4.1
556022		2.32	<0.001	<0.01	0.51	7.4	10	0.77	0.04	1.45	0.02	17.95	7.3	15	0.96	3.9
556023		2.43	0.147	0.02	0.33	105.0	20	0.34	0.06	2.97	0.07	12.55	8.0	15	2.91	5.9
556024		2.41	2.00	0.03	0.13	9.9	10	0.45	0.04	5.09	0.15	7.65	7.4	7	1.78	13.4
556025		2.53	0.321	0.14	0.33	6.2	40	0.45	0.03	4.28	0.10	8.94	6.7	7	4.01	6.3
556026		0.19	<0.001	<0.01	0.07	0.4	10	0.07	0.03	30.6	<0.02	1.16	0.6	2	0.05	0.6
556027		2.45	0.032	0.01	0.77	2.6	50	0.54	0.04	2.54	0.08	16.10	10.9	25	1.95	4.5
556028		2.30	<0.001	0.01	0.54	4.6	50	0.47	0.04	2.37	0.04	11.70	6.4	20	3.41	4.0
556029		2.35	<0.001	0.02	0.43	4.7	10	1.67	0.04	1.84	0.02	14.35	6.0	13	0.76	3.6
556030		2.10	<0.001	0.02	0.39	2.7	<10	0.93	0.03	1.23	0.02	13.75	5.4	11	0.38	3.3
556031		2.45	<0.001	0.02	0.42	5.6	10	1.02	0.04	1.22	0.02	14.70	7.3	13	0.65	4.9
556032		2.52	<0.001	0.01	0.48	7.2	10	1.01	0.04	1.56	0.02	13.15	6.9	17	1.22	5.3
556033		2.13	<0.001	0.01	0.49	4.0	10	0.74	0.03	1.67	0.03	12.95	7.2	18	1.18	5.4
556034		2.08	<0.001	0.10	0.51	5.7	10	0.75	0.03	3.19	0.03	13.45	5.9	14	0.95	4.7
556035		2.27	<0.001	0.01	0.44	1.7	10	0.57	0.03	3.16	0.07	11.30	6.9	18	2.82	5.2
556036		1.98	<0.001	0.07	0.86	16.5	30	0.71	0.03	2.48	0.18	19.25	8.8	29	6.03	8.2
556037		3.17	0.004	0.03	0.38	0.3	<10	0.20	0.02	2.33	0.16	5.11	4.5	4	0.80	50.3
556038		2.35	0.001	0.01	0.04	<0.2	<10	0.60	0.02	1.09	0.03	4.94	4.1	4	0.69	1.1
556039		0.34	8.67	1.74	7.21	106.0	190	3.92	3.74	1.78	4.19	27.7	18.5	53	2.74	110.0
556040		2.32	<0.001	0.01	0.08	0.3	10	0.37	0.01	1.18	0.03	5.15	3.9	5	0.98	0.3



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 9-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244241**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
556021		21.3	2.61	0.09	0.4	<0.005	0.010	0.01	6.9	4.0	3.00	12550	0.59	<0.01	4.5	8.6
556022		21.6	2.52	0.11	0.3	<0.005	0.010	0.04	9.0	4.5	2.84	13200	0.96	<0.01	4.3	7.7
556023		19.60	1.59	0.09	0.2	<0.005	0.006	0.11	6.9	4.6	3.09	10650	0.73	<0.01	2.9	6.4
556024		18.50	0.71	0.08	0.1	0.008	<0.005	0.04	4.0	1.6	3.57	6570	0.27	<0.01	1.1	4.7
556025		21.9	1.65	0.10	0.2	<0.005	0.005	0.10	4.7	3.4	4.00	7390	0.18	<0.01	2.2	4.2
556026		0.35	0.25	0.05	0.1	<0.005	<0.005	0.01	1.2	1.3	1.76	199	0.05	0.03	0.1	0.3
556027		23.5	3.92	0.11	0.6	<0.005	0.015	0.18	8.2	7.4	3.82	11100	0.37	<0.01	5.1	9.2
556028		20.2	2.73	0.09	0.4	<0.005	0.010	0.20	6.1	7.7	3.08	14150	0.28	<0.01	3.4	7.8
556029		22.3	2.35	0.09	0.3	<0.005	0.008	0.05	7.8	3.9	3.09	14400	0.46	<0.01	2.9	6.8
556030		21.7	2.26	0.10	0.3	<0.005	0.008	0.02	7.5	3.5	3.05	12350	0.55	<0.01	2.5	6.6
556031		21.1	2.30	0.09	0.3	<0.005	0.010	0.05	7.8	4.2	3.06	12700	0.30	<0.01	3.3	8.1
556032		19.10	2.42	0.08	0.4	<0.005	0.013	0.09	7.0	5.7	2.93	11450	0.29	<0.01	3.8	8.5
556033		18.35	2.50	0.08	0.4	<0.005	0.012	0.09	6.5	5.9	2.75	12200	0.34	<0.01	4.4	8.7
556034		19.25	2.37	0.09	0.4	<0.005	0.012	0.08	6.6	5.9	3.20	12450	0.21	<0.01	4.1	6.7
556035		17.80	2.08	0.08	0.3	<0.005	0.010	0.28	6.0	7.3	2.73	12250	0.26	0.01	3.6	8.2
556036		19.35	3.28	0.09	0.7	0.005	0.019	0.68	9.6	13.2	2.57	14150	0.41	0.01	6.4	11.0
556037		22.1	1.39	0.09	<0.1	<0.005	0.008	0.02	3.2	3.2	3.19	6300	0.12	<0.01	0.6	2.2
556038		28.7	0.38	0.11	<0.1	0.011	<0.005	0.01	3.1	0.4	4.08	5550	0.07	<0.01	0.4	0.8
556039		5.12	24.6	0.12	1.6	0.011	0.157	4.46	13.2	2.4	1.52	420	1.45	3.12	14.4	64.1
556040		26.2	0.52	0.11	0.1	<0.005	<0.005	0.03	3.2	0.6	3.77	5050	0.13	0.01	0.5	1.0



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244241**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
556021		410	1.5	0.6	<0.002	0.11	0.26	1.5	1	<0.2	23.2	0.19	<0.05	0.91	0.048	0.02
556022		590	1.3	2.2	<0.002	0.12	0.21	1.4	<1	0.2	22.3	0.18	<0.05	0.85	0.046	0.10
556023		440	1.6	6.5	<0.002	0.25	0.21	1.0	1	0.2	59.0	0.13	0.11	0.59	0.031	0.31
556024		210	2.1	1.9	<0.002	0.76	0.18	0.5	<1	<0.2	116.0	<0.05	0.06	0.17	0.012	0.06
556025		180	1.9	5.2	<0.002	0.38	0.16	1.1	<1	<0.2	94.7	0.08	<0.05	0.44	0.022	0.20
556026		70	1.1	0.3	<0.002	<0.01	0.07	0.3	<1	<0.2	80.0	<0.05	<0.05	0.07	0.005	<0.02
556027		340	1.9	8.6	<0.002	0.24	0.28	2.4	<1	0.2	51.9	0.27	<0.05	0.97	0.074	0.36
556028		360	1.6	11.3	<0.002	0.11	0.20	1.5	<1	0.4	41.7	0.16	<0.05	0.59	0.051	0.54
556029		500	1.6	2.8	<0.002	0.19	0.20	1.1	1	<0.2	26.1	0.14	0.05	0.56	0.035	0.14
556030		460	1.4	1.4	<0.002	0.15	0.23	1.0	<1	<0.2	15.7	0.12	<0.05	0.48	0.026	0.07
556031		650	1.7	2.7	<0.002	0.16	0.23	1.3	1	<0.2	14.7	0.15	<0.05	0.54	0.041	0.12
556032		460	1.6	5.3	<0.002	0.13	0.23	1.5	<1	0.2	16.4	0.18	<0.05	0.59	0.050	0.20
556033		380	1.8	5.1	<0.002	0.14	0.24	1.4	<1	0.2	17.7	0.22	<0.05	0.69	0.056	0.20
556034		380	1.9	4.4	<0.002	0.11	0.21	1.5	<1	0.2	28.5	0.25	<0.05	0.71	0.067	0.16
556035		330	2.5	15.2	<0.002	0.11	0.19	1.5	<1	0.2	33.7	0.20	<0.05	0.59	0.056	0.30
556036		510	3.4	35.3	<0.002	0.45	0.30	2.7	1	0.4	51.3	0.40	<0.05	1.09	0.111	0.54
556037		60	1.4	1.7	<0.002	0.42	0.10	0.5	1	<0.2	90.9	<0.05	<0.05	0.07	<0.005	0.03
556038		110	0.9	0.8	<0.002	0.03	0.10	0.1	<1	<0.2	27.5	<0.05	<0.05	0.07	<0.005	<0.02
556039		850	163.5	446	0.002	3.20	1.90	5.2	3	1.2	231	0.91	0.83	1.46	0.461	1.92
556040		110	0.9	1.9	<0.002	0.01	0.10	0.2	<1	<0.2	32.1	<0.05	<0.05	0.11	<0.005	<0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 9-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244241**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
556021		0.4	29	0.2	5.6	11	15.7
556022		0.4	30	0.1	6.1	10	14.0
556023		0.5	21	0.3	6.1	13	9.4
556024		0.1	11	0.4	6.5	17	4.1
556025		0.1	16	0.4	6.7	21	7.0
556026		0.2	2	0.1	2.2	4	2.4
556027		0.8	49	0.3	7.2	27	24.8
556028		0.5	34	0.5	5.6	10	15.3
556029		0.5	28	0.1	6.2	8	13.9
556030		0.5	28	0.2	5.8	7	12.6
556031		0.5	28	0.2	6.2	9	14.4
556032		0.5	31	0.2	5.6	10	17.0
556033		0.5	32	0.2	5.2	12	19.4
556034		0.4	35	0.8	5.4	13	18.9
556035		0.4	33	0.3	4.8	20	15.3
556036		0.7	60	0.3	5.7	49	30.8
556037		0.1	11	0.1	4.7	20	2.4
556038		0.1	5	0.1	4.6	5	3.0
556039		1.0	56	0.4	6.7	313	72.4
556040		0.1	6	0.2	5.1	5	3.2



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **9-OCT-2018**  
 Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244241**

**COMMENTAIRE DE CERTIFICAT**

**COMMENTAIRES ANALYTIQUES**

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
 ME-MS61

**ADRESSE DE LABORATOIRE**

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.  
 CRU-31 CRU-QC LOG-21 LOG-23  
 PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
 Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 10-OCT-2018  
Compte: MINVIR

**CERTIFICAT VO18244246**

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Bon de commande #: KANDH18-RUSH-063

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
Au-GRA21	Au 30 g fini FA-GRAV	WST-SIM
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 10-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244246**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	Au-GRA21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.001	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
556001		2.27	0.003		0.04	0.13	0.7	10	0.18	0.02	4.67	0.04	9.40	2.1	11	0.75
556002		2.31	0.003		0.02	0.13	0.4	10	0.17	0.01	3.72	0.05	6.03	1.8	11	0.30
556003		2.36	0.003		0.01	0.15	0.5	10	0.21	0.01	8.18	0.08	6.37	1.6	6	1.61
556004		2.45	0.038		0.04	0.17	5.0	10	0.19	0.02	6.82	0.12	5.74	2.1	5	1.73
556005		2.36	0.400		0.05	0.23	5.2	20	0.22	0.02	6.87	0.15	7.98	3.0	6	1.82
556006		0.20	0.006		0.01	0.09	0.3	20	0.06	0.03	32.4	0.02	1.18	0.8	3	0.05
556007		2.50	0.074		0.02	0.21	3.6	20	0.21	0.03	3.26	0.09	10.35	3.7	8	1.29
556008		2.06	>10.0	10.50	0.31	0.25	7.5	20	0.21	0.04	2.93	0.12	7.05	5.4	7	1.30
556009		2.37	4.54		0.48	0.20	15.3	20	0.22	0.04	4.70	0.13	9.97	4.5	6	0.71
556010		2.33	3.14		0.10	0.37	6.8	40	0.38	0.04	3.17	0.13	12.20	4.8	11	1.86
556011		2.14	0.023		0.02	0.33	71.4	20	0.30	0.02	5.19	0.08	11.65	3.8	9	2.49
556012		2.38	0.009		<0.01	0.10	42.6	<10	0.27	0.01	1.94	0.09	5.04	3.7	8	0.39
556013		2.44	0.001		0.01	0.39	21.7	20	0.31	0.01	2.23	0.05	12.35	6.8	14	2.32
556014		2.30	<0.001		0.01	0.38	2.9	10	0.55	0.03	3.90	0.04	16.05	10.8	12	0.64
556015		2.12	0.002		0.02	0.07	15.0	<10	0.19	0.03	2.84	0.02	6.33	3.4	29	0.20
556016		2.17	<0.001		0.01	0.21	2.8	<10	0.40	0.01	4.18	0.02	8.12	4.6	16	0.25
556017		2.28	<0.001		0.02	0.47	4.5	<10	0.37	0.03	4.74	0.03	8.70	4.5	13	0.19
556018		2.17	<0.001		0.01	0.13	11.0	<10	0.33	0.03	5.43	0.03	8.71	3.7	8	0.14
556019		0.07	0.661		0.20	7.25	20.4	330	1.35	0.14	4.39	0.22	49.8	43.5	188	1.94
556020		2.45	<0.001		0.01	0.79	1.4	10	1.61	0.03	3.20	0.03	17.00	9.3	19	0.73



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 10-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244246**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
556001		4.1	13.00	0.97	0.07	0.2	<0.005	<0.005	0.02	4.9	2.4	3.02	3350	0.41	0.01	0.9
556002		5.2	11.85	1.57	0.06	0.1	<0.005	<0.005	0.03	3.3	1.3	2.55	3230	0.30	<0.01	1.3
556003		2.3	14.75	1.67	0.05	0.1	<0.005	0.005	0.02	3.6	2.1	4.28	4100	0.24	<0.01	1.3
556004		9.2	16.75	1.14	0.05	0.1	0.005	0.007	0.03	3.2	2.1	4.27	4730	0.50	<0.01	0.6
556005		12.7	19.30	1.25	0.06	0.1	0.010	0.008	0.05	4.8	2.2	4.20	5940	0.39	<0.01	1.1
556006		3.0	0.32	0.33	<0.05	0.1	<0.005	<0.005	0.02	1.2	1.3	1.79	140	0.14	0.04	0.1
556007		9.1	23.4	1.23	0.06	0.2	<0.005	0.008	0.05	6.2	2.2	3.52	7230	0.32	<0.01	1.5
556008		29.5	22.4	1.08	0.06	0.1	0.112	0.010	0.06	4.2	2.5	3.05	6020	0.17	<0.01	0.7
556009		21.0	21.8	0.88	0.06	0.1	0.041	0.008	0.05	6.1	2.2	3.33	7450	0.26	<0.01	0.7
556010		13.9	23.3	1.59	0.07	0.2	0.008	0.013	0.12	7.5	4.2	3.23	8980	0.56	0.06	1.8
556011		4.9	18.35	1.39	0.05	0.2	<0.005	0.009	0.10	7.3	3.5	3.57	7730	0.45	<0.01	2.0
556012		3.7	22.4	0.46	0.05	<0.1	<0.005	0.009	0.02	3.2	1.2	3.45	7030	0.16	<0.01	0.7
556013		3.6	21.7	1.97	0.07	0.3	<0.005	0.009	0.10	6.8	4.0	3.13	10250	0.46	<0.01	4.1
556014		3.7	22.4	1.92	0.09	0.3	<0.005	0.009	0.03	9.2	2.6	3.47	14050	0.66	<0.01	3.8
556015		5.5	8.87	0.39	<0.05	0.1	<0.005	<0.005	0.01	3.6	0.8	1.62	5270	0.31	<0.01	0.7
556016		4.1	14.95	1.00	0.05	0.1	<0.005	<0.005	0.01	4.5	1.6	2.82	8380	0.35	<0.01	2.2
556017		6.8	14.20	2.32	0.05	0.4	<0.005	0.006	0.01	4.7	3.3	2.75	8180	0.36	<0.01	2.8
556018		4.3	14.00	0.73	0.05	0.1	<0.005	<0.005	0.01	4.7	1.4	2.93	8630	0.41	<0.01	1.1
556019		56.8	7.24	20.3	0.11	3.8	0.015	0.064	0.88	21.9	12.9	2.89	941	2.51	1.70	20.6
556020		6.5	24.2	3.74	0.08	0.5	<0.005	0.013	0.04	8.9	5.6	3.70	13150	0.75	<0.01	6.4





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Page: 2 - C  
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Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
556001		3.2	90	1.3	1.1	<0.002	0.23	0.09	0.4	<1	<0.2	53.7	0.05	<0.05	0.42	0.011
556002		2.7	120	1.2	1.0	<0.002	0.15	0.10	0.4	1	<0.2	55.7	0.06	<0.05	0.17	0.009
556003		1.9	80	1.6	1.4	<0.002	0.13	0.12	0.5	1	<0.2	115.0	0.06	<0.05	0.15	0.008
556004		2.3	70	1.9	1.7	<0.002	0.56	0.12	0.5	1	<0.2	101.5	0.05	<0.05	0.13	0.005
556005		3.1	190	2.4	2.4	<0.002	0.90	0.10	0.5	1	<0.2	116.0	0.08	0.06	0.21	0.010
556006		0.8	50	0.7	0.8	<0.002	<0.01	0.05	0.3	1	<0.2	81.9	<0.05	<0.05	0.10	0.006
556007		3.7	280	1.6	2.2	<0.002	0.65	0.13	0.6	1	<0.2	54.0	0.10	0.06	0.24	0.013
556008		7.5	220	2.2	2.5	<0.002	1.98	0.12	0.5	2	<0.2	64.0	0.07	0.11	0.13	0.008
556009		4.5	230	2.6	2.1	<0.002	1.34	0.16	0.4	1	<0.2	93.3	0.05	0.07	0.14	0.008
556010		4.8	350	3.4	5.3	<0.002	0.89	0.48	0.9	1	<0.2	68.1	0.10	0.06	0.41	0.022
556011		3.3	420	1.9	5.6	<0.002	0.28	0.15	0.9	1	<0.2	70.7	0.10	<0.05	0.47	0.022
556012		2.0	90	0.8	0.9	<0.002	0.16	0.10	0.2	<1	<0.2	28.2	<0.05	0.05	0.09	0.005
556013		6.0	330	0.9	6.1	<0.002	0.11	0.12	1.1	1	0.2	32.7	0.14	<0.05	0.59	0.040
556014		9.1	780	1.7	1.7	<0.002	0.14	0.19	1.2	1	<0.2	49.8	0.18	<0.05	0.58	0.056
556015		2.7	260	1.6	0.6	<0.002	0.24	0.22	0.2	1	<0.2	29.9	<0.05	0.07	0.11	0.006
556016		4.5	290	1.2	0.6	<0.002	0.11	0.15	0.5	1	<0.2	37.8	0.09	<0.05	0.34	0.023
556017		4.2	200	1.8	0.5	<0.002	0.16	0.15	0.9	1	<0.2	47.2	0.13	0.05	1.04	0.031
556018		3.1	260	1.5	0.6	<0.002	0.11	0.19	0.6	1	<0.2	47.0	0.05	<0.05	0.22	0.011
556019		142.5	1140	14.8	40.2	<0.002	0.02	1.05	21.2	1	1.8	347	1.17	<0.05	4.99	0.912
556020		10.6	440	1.7	2.4	<0.002	0.14	0.31	2.0	1	0.2	35.1	0.26	<0.05	1.23	0.066



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Page: 2 - D  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 10-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244246**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
556001		0.03	0.2	11	0.3	4.5	12	6.9
556002		0.03	0.2	15	0.1	3.8	14	3.8
556003		0.07	0.2	17	0.1	5.7	15	4.3
556004		0.06	0.2	15	0.1	5.8	26	3.6
556005		0.11	0.2	19	0.3	6.3	32	5.6
556006		<0.02	0.1	1	0.1	2.2	5	1.7
556007		0.09	0.3	21	0.3	5.5	34	7.4
556008		0.12	0.1	13	0.6	4.7	31	3.2
556009		0.06	0.2	13	0.2	6.0	30	3.5
556010		0.22	0.5	29	0.2	6.2	37	9.7
556011		0.25	1.1	24	0.3	6.9	35	9.0
556012		0.04	0.2	8	0.3	3.6	34	2.2
556013		0.29	0.3	26	0.3	4.9	25	10.9
556014		0.08	0.3	25	0.3	7.1	19	14.1
556015		0.03	0.1	6	0.1	3.1	6	2.8
556016		0.03	0.2	13	0.1	4.4	8	6.0
556017		0.03	0.3	21	0.1	4.9	10	14.9
556018		0.02	0.2	10	0.1	4.3	7	4.7
556019		0.21	1.2	146	2.3	20.7	129	150.5
556020		0.11	0.5	41	0.2	6.7	15	22.6



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **10-OCT-2018**  
 Compte: **MINVIR**

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**CERTIFICAT D'ANALYSE VO18244246**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-GRA21</td> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> </tr> </table>	Au-GRA21	Au-ICP21	Hg-MS42	ME-MS61				
Au-GRA21	Au-ICP21	Hg-MS42	ME-MS61						



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 8-OCT-2018  
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## CERTIFICAT VO18244251

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Bon de commande #: KANDH18-RUSH-062

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 8-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244251**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555981		2.66	0.195	0.05	1.07	39.5	20	0.54	0.03	4.39	0.09	22.3	11.6	33	3.67	12.4
555982		2.56	0.004	0.08	0.33	9.6	20	0.34	0.04	4.81	0.05	11.40	6.2	20	3.25	36.2
555983		2.40	0.032	0.04	0.56	27.6	20	0.33	0.03	4.16	0.10	17.25	6.9	25	4.18	36.0
555984		2.51	0.168	0.09	0.05	5.9	<10	0.20	0.05	4.19	0.06	6.10	6.9	13	0.76	61.1
555985		2.28	0.145	0.17	0.37	3.9	10	0.25	0.09	5.15	0.11	8.54	10.0	18	1.73	90.8
555986		0.20	<0.001	0.01	0.07	0.5	20	0.08	0.01	34.7	<0.02	1.17	0.9	3	0.06	2.5
555987		2.28	0.083	0.04	0.42	4.4	20	0.44	0.02	1.02	0.05	13.50	5.4	25	5.28	19.6
555988		2.37	0.098	0.02	0.13	10.2	10	0.19	0.02	1.63	0.05	7.50	3.4	22	1.80	8.1
555989		2.17	0.293	0.10	0.33	4.4	10	0.24	0.01	2.50	0.06	9.65	4.2	26	2.81	13.9
555990		2.35	0.017	0.05	0.08	5.3	10	0.27	0.04	8.88	0.10	6.94	2.4	15	1.31	11.1
555991		2.16	0.007	0.28	0.13	21.3	10	0.20	0.18	7.68	0.09	5.50	13.2	8	1.33	107.0
555992		2.20	0.026	0.08	0.15	9.9	10	0.15	0.05	5.63	0.07	4.10	4.9	16	2.68	23.5
555993		2.27	0.002	0.08	0.26	7.6	10	0.29	0.10	7.84	0.12	8.86	9.5	13	3.11	20.4
555994		2.48	<0.001	0.02	0.60	3.6	20	1.32	0.03	7.67	0.13	16.80	6.6	26	4.49	6.2
555995		2.33	0.001	0.03	0.64	11.4	10	0.57	0.03	5.23	0.12	16.95	8.6	20	1.76	8.6
555996		2.38	0.115	0.02	0.70	13.8	30	0.44	0.03	3.65	0.18	19.75	8.5	18	7.52	9.6
555997		2.46	0.002	0.02	0.68	31.1	40	0.65	0.03	1.35	0.13	18.15	7.3	16	10.45	3.6
555998		1.70	0.214	0.04	0.59	0.4	20	0.41	0.05	1.47	0.23	12.10	6.8	22	5.30	17.0
555999		0.07	7.60	1.29	5.96	33.0	300	0.93	0.49	2.84	0.08	30.1	38.7	331	0.69	104.5
556000		2.80	0.016	0.01	0.18	0.7	10	0.24	0.02	4.18	0.07	6.16	2.5	15	1.85	2.8



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 8-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244251**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
555981		23.8	4.49	0.10	0.9	0.017	0.104	0.18	11.8	4.1	4.36	12400	1.45	0.03	8.5	18.2
555982		15.75	1.58	0.07	0.3	0.018	0.918	0.11	6.1	1.2	3.02	9660	0.87	0.03	2.6	8.5
555983		19.35	2.70	0.09	0.6	0.011	0.569	0.14	9.2	1.5	3.07	12600	1.10	0.04	5.6	11.8
555984		15.35	0.39	0.07	<0.1	0.016	0.892	0.02	3.2	0.5	2.39	10750	0.40	0.01	0.6	10.8
555985		16.05	1.62	0.06	0.1	0.064	0.710	0.06	4.5	1.2	2.69	10600	0.69	0.02	1.7	16.4
555986		0.40	0.22	<0.05	0.1	<0.005	0.014	0.01	1.2	1.1	1.54	280	0.06	0.03	0.2	0.6
555987		19.10	1.72	0.08	0.3	0.024	0.267	0.19	7.4	1.2	2.19	13900	0.76	0.05	3.3	7.3
555988		12.90	0.59	0.05	0.1	0.019	0.055	0.06	4.0	0.6	1.57	9990	0.45	0.02	1.3	3.8
555989		15.90	1.44	0.07	0.3	0.028	0.207	0.10	5.2	1.0	2.20	11450	0.65	0.03	2.6	5.9
555990		9.89	0.53	<0.05	0.1	0.024	1.150	0.05	4.0	0.8	3.49	6530	0.76	0.02	1.0	3.1
555991		14.20	0.71	0.05	0.1	0.029	0.705	0.05	3.1	0.8	3.13	5410	1.12	0.01	1.1	6.6
555992		9.28	0.64	<0.05	0.1	0.015	0.630	0.09	2.3	0.7	2.33	5160	0.72	0.03	1.1	2.9
555993		12.25	1.28	<0.05	0.2	0.031	0.434	0.10	5.0	1.2	3.30	7040	0.98	0.03	2.3	6.1
555994		18.00	2.98	0.05	0.6	0.017	0.167	0.18	9.0	2.5	3.88	11700	1.29	0.04	5.5	8.3
555995		21.4	3.03	0.05	0.6	0.007	0.147	0.10	9.0	2.7	3.66	13900	1.50	0.01	6.0	10.4
555996		25.6	3.10	0.07	0.8	0.030	0.173	0.26	10.4	2.1	3.78	17050	0.86	0.07	6.7	10.4
555997		22.0	2.67	0.05	0.7	0.025	0.168	0.36	9.4	2.1	2.87	15000	0.64	0.09	6.9	9.7
555998		18.65	2.80	0.06	0.6	0.036	0.081	0.27	6.3	2.7	2.55	15200	0.70	0.04	4.8	9.1
555999		5.43	15.15	0.05	2.4	0.156	0.046	1.01	15.4	15.4	3.90	763	6.21	1.15	16.4	240
556000		12.65	1.41	<0.05	0.1	0.031	0.006	0.03	3.7	2.2	2.84	3300	0.42	<0.01	1.4	3.3



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 8-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244251**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555981		570	3.3	8.9	<0.002	0.24	0.27	3.1	1	0.6	61.6	0.45	0.05	1.63	0.120	0.06
555982		370	2.0	5.2	<0.002	0.59	0.11	1.1	1	0.4	45.8	0.13	0.06	0.56	0.037	0.02
555983		510	2.2	6.6	0.002	0.59	0.17	1.6	2	0.4	59.7	0.37	0.08	1.22	0.062	0.03
555984		270	2.0	1.1	<0.002	1.08	0.11	0.2	3	<0.2	46.6	<0.05	0.10	0.11	0.005	<0.02
555985		420	3.0	2.8	<0.002	1.57	0.16	1.1	2	0.2	74.9	0.08	0.14	0.31	0.021	0.02
555986		70	<0.5	0.4	<0.002	<0.01	<0.05	0.2	2	<0.2	86.4	<0.05	<0.05	0.07	0.006	<0.02
555987		440	0.8	8.7	<0.002	0.32	0.16	1.4	1	0.4	13.2	0.17	<0.05	0.70	0.049	0.04
555988		340	0.8	2.9	<0.002	0.16	0.12	0.5	<1	0.2	21.9	0.06	<0.05	0.25	0.015	<0.02
555989		380	1.0	4.8	<0.002	0.28	0.12	1.0	1	0.3	31.7	0.13	<0.05	0.52	0.037	0.02
555990		440	3.3	2.0	<0.002	0.29	0.13	0.4	1	0.2	116.5	0.05	0.05	0.14	0.007	0.03
555991		260	5.4	2.0	<0.002	3.30	0.18	0.4	3	0.2	104.0	<0.05	0.27	0.12	0.008	0.03
555992		170	3.5	3.7	<0.002	1.15	0.13	0.3	2	0.2	77.2	0.06	0.09	0.11	0.006	0.03
555993		270	5.8	4.7	<0.002	1.08	0.16	0.7	2	0.3	114.0	0.14	0.13	0.42	0.021	0.03
555994		470	4.3	8.4	<0.002	0.35	0.19	1.7	1	0.5	124.0	0.35	<0.05	0.99	0.052	0.05
555995		600	2.7	4.8	<0.002	0.44	0.14	1.7	1	0.3	77.2	0.37	0.07	1.10	0.059	0.04
555996		590	2.1	12.0	<0.002	0.43	0.16	2.0	1	0.4	58.1	0.44	0.06	1.38	0.069	0.04
555997		520	1.0	17.2	<0.002	0.11	0.19	1.7	1	0.5	23.3	0.43	0.05	1.30	0.060	0.08
555998		370	1.6	13.0	<0.002	0.58	0.14	1.8	1	0.3	30.8	0.33	0.06	0.92	0.062	0.10
555999		1080	9.6	36.8	0.002	0.08	0.78	19.4	1	1.0	269	0.96	0.22	2.41	0.649	0.19
556000		80	1.4	1.9	<0.002	0.23	0.11	0.5	<1	<0.2	66.2	0.08	<0.05	0.21	0.013	0.10



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 8-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244251**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555981		1.3	62	0.4	8.5	41	41.8
555982		0.5	24	0.2	5.5	20	12.4
555983		0.7	34	0.2	6.7	28	28.2
555984		0.1	6	0.2	4.0	10	2.5
555985		0.3	19	0.3	5.2	20	6.7
555986		0.1	2	0.1	2.3	4	3.6
555987		0.6	31	0.2	4.9	26	15.4
555988		0.2	10	0.1	3.9	14	5.2
555989		0.5	24	0.3	4.6	22	12.0
555990		0.2	8	0.2	5.6	12	3.3
555991		0.1	9	0.1	4.1	10	3.2
555992		0.1	9	0.1	3.4	11	2.7
555993		0.3	17	0.1	5.4	15	9.8
555994		0.6	44	0.3	8.6	24	25.6
555995		0.7	47	0.3	8.2	27	27.8
555996		0.7	46	0.4	7.9	33	33.4
555997		0.7	42	0.3	6.4	32	31.3
555998		0.7	38	0.3	5.2	28	24.7
555999		0.6	141	8.9	14.3	80	98.3
556000		0.3	18	0.1	4.3	13	5.0





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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
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Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244251**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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Compte: MINVIR

## CERTIFICAT VO18244253

Projet: Kan  
Bon de commande #: KANDH18-098  
Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244253**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557941		4.38	0.004	0.54	1.60	16.2	20	0.22	0.14	2.90	0.16	41.4	5.0	13	0.37	186.0
557942		4.48	<0.001	0.17	6.64	55.4	110	0.90	0.02	3.00	0.28	10.40	45.2	141	1.49	87.8
557943		1.50	0.002	0.06	7.45	73.2	150	1.18	0.08	2.81	0.28	10.60	50.1	178	1.82	7.7
557944		4.77	0.007	0.15	8.18	5.9	330	2.53	0.21	0.72	0.13	54.3	23.4	94	4.47	120.0
557945		4.74	0.014	0.15	9.32	10.4	360	2.66	0.21	0.80	0.48	66.3	24.1	102	5.49	80.7
557946		4.53	0.009	0.30	9.11	1.5	390	2.53	0.32	0.46	0.42	60.9	20.1	86	5.30	92.1
557947		3.44	0.004	0.18	7.48	1.9	290	1.82	0.19	1.10	0.12	42.6	35.0	72	3.55	209
557948		3.16	0.004	0.26	6.37	81.9	170	0.76	0.05	6.32	0.52	10.65	48.2	119	1.61	143.0
557949		0.07	7.76	1.36	6.19	35.4	320	1.00	0.51	3.00	0.08	31.5	42.0	308	0.68	113.0
557950		4.55	0.004	0.15	6.53	72.7	190	0.71	0.03	6.32	0.40	11.00	46.1	119	1.72	98.5
557951		4.56	0.001	0.13	7.76	13.2	170	0.71	0.03	2.74	0.19	22.1	41.2	136	1.53	248
557952		4.00	0.003	0.13	6.46	70.5	220	0.66	0.03	5.70	0.30	8.47	49.1	121	1.82	131.0
557953		4.35	0.004	0.17	6.49	47.9	110	0.42	0.02	5.78	0.25	8.58	39.1	122	1.25	169.5
557954		4.51	0.002	0.12	6.69	46.2	40	0.32	0.01	5.15	0.20	8.29	41.4	120	0.87	120.0
557955		4.47	0.003	0.13	6.78	67.2	30	0.27	0.03	5.13	0.20	9.00	55.4	121	0.76	170.5
557956		0.36	0.005	0.02	0.15	<0.2	30	0.05	0.04	34.9	0.03	1.24	0.9	2	<0.05	7.0
557957		4.45	0.002	0.13	6.70	71.4	40	0.27	0.01	5.00	0.17	8.67	54.6	121	0.74	173.5
557958		4.04	0.001	0.05	6.77	55.5	80	0.44	0.03	5.31	0.11	7.74	48.6	130	0.88	121.0
557959		4.16	0.079	1.81	5.20	93.6	120	1.20	0.38	1.79	3.65	63.4	33.3	60	2.98	276
557960		4.80	0.053	1.30	4.69	66.6	150	0.93	0.21	1.76	2.63	60.1	15.5	53	2.57	262



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
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**CERTIFICAT D'ANALYSE VO18244253**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557941		23.4	5.78	0.06	0.2	0.037	0.024	0.25	24.1	18.5	2.26	2940	1.14	0.02	0.3	110.0
557942		9.08	17.40	<0.05	1.0	<0.005	0.073	1.12	3.9	67.6	5.47	612	0.28	0.02	2.2	81.0
557943		9.74	17.75	0.05	1.5	<0.005	0.076	1.52	4.2	68.4	5.16	658	0.66	0.02	2.2	118.5
557944		7.11	21.8	0.06	2.2	0.011	0.060	3.32	29.6	45.7	2.12	258	8.81	0.05	6.4	62.0
557945		7.93	24.3	0.11	2.4	0.012	0.060	4.06	34.1	46.9	2.03	296	4.36	0.06	7.2	58.2
557946		7.38	25.0	0.08	2.6	0.009	0.059	4.35	30.8	42.3	1.45	189	5.20	0.07	8.1	57.1
557947		8.34	20.1	0.08	2.1	<0.005	0.048	3.25	21.9	36.2	1.64	328	4.65	0.06	6.1	57.9
557948		8.24	15.75	<0.05	1.1	<0.005	0.074	1.95	4.1	44.2	3.80	1180	0.23	0.05	2.3	125.5
557949		5.60	15.95	0.06	2.4	0.141	0.053	1.06	16.1	15.4	4.02	761	6.33	1.19	16.5	250
557950		8.65	16.95	<0.05	1.5	<0.005	0.066	1.84	4.3	48.1	3.71	1200	0.35	0.04	2.7	112.5
557951		12.55	21.7	0.07	2.1	<0.005	0.062	1.39	9.7	69.5	4.15	640	1.19	0.03	2.7	90.9
557952		8.68	16.45	0.06	1.2	<0.005	0.066	1.85	3.1	45.1	3.82	1070	0.22	0.05	2.0	116.0
557953		8.86	16.10	<0.05	1.2	<0.005	0.075	1.36	3.1	49.4	4.19	1180	0.32	0.43	1.5	121.5
557954		8.65	16.55	<0.05	1.1	<0.005	0.065	0.90	3.0	54.6	4.46	1140	0.24	1.13	0.8	129.5
557955		9.49	17.25	<0.05	1.2	0.005	0.073	0.80	3.3	62.0	4.83	1190	0.27	0.98	0.9	135.5
557956		0.19	0.42	<0.05	0.1	<0.005	0.007	0.03	1.3	1.4	1.13	100	0.11	0.04	0.2	1.4
557957		8.75	16.30	<0.05	1.2	0.005	0.075	0.85	3.2	53.7	4.38	1160	0.28	1.21	1.1	130.0
557958		9.83	15.95	0.06	1.5	0.009	0.064	1.14	2.8	59.6	4.47	1320	0.20	0.88	1.4	127.0
557959		23.4	16.45	0.14	3.4	0.217	0.175	2.69	34.5	26.2	0.73	257	20.3	0.07	12.7	145.0
557960		20.8	14.65	0.13	3.4	0.205	0.162	2.34	33.8	22.8	1.56	804	12.50	0.08	10.3	147.0



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18244253**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557941		630	9.0	9.4	<0.002	8.68	1.27	1.9	4	0.2	86.3	<0.05	0.67	1.42	0.010	0.23
557942		380	2.3	40.8	<0.002	0.04	0.75	43.4	<1	0.6	135.5	0.14	<0.05	0.37	0.446	0.34
557943		350	2.7	53.6	0.002	0.01	0.53	43.9	<1	0.6	124.5	0.15	0.05	0.74	0.429	0.51
557944		190	10.9	119.0	0.017	1.01	2.55	14.5	3	1.3	37.5	0.53	0.13	9.87	0.299	0.99
557945		240	5.9	135.5	0.011	1.41	1.55	17.3	2	1.4	41.9	0.56	0.14	10.55	0.350	1.30
557946		160	10.9	146.0	0.015	2.23	2.94	12.3	3	1.6	31.1	0.67	0.13	12.25	0.287	1.54
557947		140	7.1	110.5	0.008	2.30	1.58	11.0	4	1.1	43.7	0.48	0.12	9.29	0.240	1.21
557948		320	3.4	63.8	0.002	0.12	0.35	39.1	<1	0.6	161.0	0.15	0.05	0.28	0.538	0.89
557949		1090	9.9	39.6	<0.002	0.08	0.83	20.4	1	1.0	277	0.98	0.25	2.44	0.685	0.19
557950		330	3.1	63.0	0.002	0.06	0.43	38.2	<1	0.5	143.5	0.18	<0.05	0.71	0.532	0.87
557951		350	3.2	43.0	0.004	0.60	0.32	38.7	2	0.5	67.0	0.19	0.06	2.64	0.516	0.64
557952		340	1.9	62.5	0.002	0.02	0.38	40.2	<1	0.6	136.5	0.14	<0.05	0.23	0.480	0.93
557953		340	2.3	45.6	0.003	0.09	0.46	39.9	<1	0.5	145.5	0.11	<0.05	0.22	0.284	0.78
557954		340	2.2	32.0	<0.002	0.06	0.40	41.4	<1	0.2	147.5	0.06	<0.05	0.24	0.206	0.60
557955		350	2.1	28.3	0.003	0.07	0.36	42.5	1	0.3	142.5	0.07	<0.05	0.22	0.224	0.54
557956		60	0.7	0.8	<0.002	<0.01	0.07	0.5	1	<0.2	90.4	<0.05	<0.05	0.08	0.009	0.02
557957		340	1.8	30.1	0.002	0.08	0.57	40.2	1	0.4	146.5	0.08	0.05	0.22	0.221	0.61
557958		360	2.2	36.6	<0.002	0.36	0.68	43.2	1	0.6	167.0	0.09	0.08	0.21	0.207	0.83
557959		360	67.1	77.7	0.029	>10.0	14.85	8.5	7	3.9	32.5	0.80	1.28	6.42	0.161	2.80
557960		260	42.8	66.8	0.014	>10.0	10.50	8.9	8	3.2	98.9	0.73	0.82	5.76	0.135	2.22



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Page: 2 - D  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18244253**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557941		0.5	44	0.2	4.9	102	10.1
557942		0.1	336	1.5	5.0	176	34.2
557943		0.4	340	1.2	4.9	278	51.6
557944		5.4	361	1.2	6.3	195	78.1
557945		4.6	296	1.2	6.1	241	85.5
557946		5.3	268	1.3	6.5	172	90.5
557947		4.6	222	1.0	6.0	137	74.8
557948		0.1	317	0.7	5.5	113	45.3
557949		0.6	146	9.2	14.8	85	102.5
557950		0.4	318	0.6	6.3	128	54.2
557951		1.5	345	0.3	5.9	200	74.5
557952		0.1	325	0.4	5.3	121	46.7
557953		0.1	316	0.2	4.9	102	38.2
557954		0.1	316	0.1	4.4	96	36.0
557955		<0.1	326	0.1	4.8	108	47.8
557956		0.1	4	0.1	2.3	46	2.2
557957		0.1	325	0.1	4.1	104	40.7
557958		0.1	322	0.5	4.3	159	45.8
557959		12.1	185	1.5	10.6	1120	128.5
557960		8.0	144	1.2	9.8	827	121.0



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Page: **Annexe 1**  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18244253**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
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**CERTIFICAT VO18244254**

Projet: Kan  
Bon de commande #: KANDH18-099  
Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.  
Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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À: **MINIÈRE OSISKO INC.**  
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**BUREAU 200**  
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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
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 Finalisée date: 17-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244254**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557961		4.74	0.065	1.05	4.92	75.0	150	1.31	0.18	0.39	3.46	62.7	24.4	67	2.72	203
557962		5.48	0.124	1.64	5.08	139.0	140	1.42	0.45	0.43	3.07	46.9	34.3	77	2.68	123.0
557963		4.55	0.020	0.72	6.12	19.8	200	1.61	0.12	0.99	2.32	50.3	12.4	73	2.87	230
557964		5.04	0.008	0.46	9.63	2.8	280	2.32	0.08	0.38	2.73	69.3	9.1	100	4.80	190.0
557965		4.47	<0.001	0.42	9.75	11.2	300	3.39	0.07	0.10	3.26	63.2	14.4	109	4.99	180.0
557966		4.38	0.044	1.48	2.58	146.0	90	1.13	0.27	1.92	8.98	38.7	22.6	50	2.16	287
557967		4.75	0.084	2.36	2.12	151.5	80	1.06	0.42	1.71	20.6	50.1	25.3	56	2.59	288
557968		2.95	0.083	2.30	1.85	263	70	0.89	0.41	1.76	18.90	45.4	20.5	49	2.22	305
557969		0.07	0.682	0.19	7.41	18.8	340	1.41	0.13	4.64	0.20	49.4	41.8	195	1.89	54.6
557970		3.78	0.017	0.83	5.91	14.2	230	2.21	0.19	1.16	9.42	50.2	22.1	73	3.04	230
557971		3.40	0.006	0.47	9.01	4.3	350	3.10	0.20	0.63	1.75	79.2	9.8	119	3.69	159.0
557972		3.33	0.002	0.14	4.43	4.6	210	1.11	0.03	0.81	0.10	21.5	12.4	83	1.21	51.6
557973		4.55	0.001	0.11	6.21	72.7	40	0.45	0.01	2.33	0.10	8.28	44.4	144	0.45	20.6
557974		4.57	0.002	0.06	6.24	44.4	70	0.68	0.01	2.77	0.13	8.21	40.9	128	0.55	26.8
557975		4.55	<0.001	0.02	6.66	47.1	120	0.72	0.01	1.83	0.11	15.95	39.2	142	0.77	9.0
557976		0.21	0.001	<0.01	0.09	0.4	20	0.05	0.01	34.1	<0.02	0.86	0.5	4	<0.05	1.4
557977		4.49	0.003	0.07	8.55	56.6	400	1.49	0.02	1.17	0.11	20.0	46.3	165	2.15	69.1
557978		4.98	<0.001	0.05	8.70	46.6	430	1.66	0.02	0.90	0.10	27.8	41.7	153	2.31	83.8
557979		2.21	<0.001	0.01	7.46	74.6	160	1.02	<0.01	1.01	0.07	11.10	50.8	166	0.89	2.0
557980		4.36	0.002	0.02	3.77	48.5	10	0.28	<0.01	1.00	0.04	5.59	31.7	110	0.32	1.7



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Page: 2 – B  
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Projet: Kan

**CERTIFICAT D'ANALYSE VO18244254**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557961		17.50	15.20	0.14	2.8	0.204	0.176	2.59	34.5	27.4	0.72	279	13.65	0.07	9.7	140.0
557962		19.05	14.95	0.15	2.6	0.376	0.145	2.67	25.2	25.9	0.71	377	15.80	0.07	7.5	122.5
557963		15.95	15.65	0.13	2.4	0.153	0.091	3.21	29.2	24.4	0.85	791	14.10	0.13	5.5	140.5
557964		11.05	25.5	0.16	4.9	0.073	0.116	5.00	40.3	38.1	0.79	300	11.35	0.39	11.1	125.5
557965		11.25	24.9	0.16	4.3	0.070	0.086	5.25	35.7	43.8	0.75	212	11.70	0.14	9.1	131.5
557966		15.40	6.94	0.15	1.3	0.297	0.060	1.37	24.7	11.3	0.94	2330	111.5	0.03	3.8	217
557967		16.35	6.69	0.18	1.7	0.517	0.111	1.14	33.0	10.0	1.03	2530	171.0	0.02	4.4	268
557968		16.60	5.85	0.16	1.8	0.530	0.104	1.00	29.5	8.6	0.96	2450	153.0	0.02	3.6	276
557969		7.62	19.45	0.09	3.8	0.016	0.061	0.92	22.6	13.6	3.02	974	2.45	1.77	19.0	145.5
557970		14.25	14.65	0.15	2.1	0.185	0.077	3.14	29.9	23.3	0.89	986	41.9	0.07	5.1	158.5
557971		10.45	24.3	0.16	5.8	0.053	0.099	4.38	45.5	34.9	0.84	414	13.65	0.81	14.2	114.0
557972		6.75	11.10	0.08	1.4	0.017	0.038	1.76	11.0	24.1	1.47	626	4.10	0.18	2.2	45.4
557973		10.40	16.05	0.08	1.6	<0.005	0.048	0.41	3.2	64.4	4.32	1530	0.34	1.24	1.7	106.5
557974		9.84	14.60	0.06	1.4	<0.005	0.044	0.56	3.2	49.6	3.70	1570	0.34	1.77	1.2	101.5
557975		10.90	15.75	0.07	1.8	<0.005	0.028	0.75	7.0	53.5	3.75	1800	1.53	1.09	2.1	98.5
557976		0.22	0.28	0.07	0.1	<0.005	0.005	0.01	1.0	1.3	1.54	104	0.09	0.04	0.1	1.0
557977		12.10	20.1	0.08	2.1	0.005	0.070	2.33	8.6	59.1	3.29	720	1.20	0.16	4.0	98.3
557978		11.55	21.0	0.09	1.9	<0.005	0.066	2.35	14.0	56.8	2.97	622	1.31	0.54	4.5	99.0
557979		11.70	19.65	0.07	2.0	<0.005	0.047	0.97	4.5	69.1	4.02	1400	0.75	0.74	9.8	102.0
557980		8.49	11.40	0.06	1.1	<0.005	0.025	0.08	2.2	47.8	2.95	1490	0.26	0.13	7.3	79.2



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Page: 2 - C  
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**CERTIFICAT D'ANALYSE VO18244254**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557961		520	47.5	70.3	0.018	>10.0	12.10	6.5	5	3.0	29.8	0.74	0.83	5.86	0.144	2.57
557962		250	86.6	68.9	0.019	>10.0	20.6	7.8	6	3.3	25.4	0.47	1.77	4.53	0.164	3.01
557963		260	17.9	78.5	0.017	9.28	5.16	9.9	6	2.0	47.2	0.30	0.28	4.04	0.188	2.68
557964		230	13.0	122.5	0.015	6.12	4.67	19.0	4	2.5	33.3	0.63	0.16	5.69	0.366	4.29
557965		260	18.9	125.0	0.015	6.51	5.41	19.1	9	2.2	22.0	0.52	0.17	5.21	0.363	4.32
557966		2160	74.9	39.9	0.069	9.47	17.85	4.8	16	0.9	68.8	0.20	0.41	2.62	0.069	1.32
557967		2650	123.0	38.8	0.111	9.40	30.7	4.5	18	1.1	66.5	0.27	0.64	3.43	0.057	1.33
557968		2680	118.5	33.8	0.103	9.71	29.0	3.9	19	1.0	66.8	0.25	0.70	3.10	0.049	1.22
557969		1150	13.4	38.4	<0.002	0.04	1.01	19.2	1	1.7	358	1.07	0.05	4.72	0.931	0.20
557970		520	40.2	82.7	0.046	8.28	9.45	10.0	11	1.5	44.6	0.27	0.29	4.08	0.160	2.56
557971		450	21.9	119.5	0.017	5.58	4.57	22.3	5	2.9	40.7	0.71	0.30	6.42	0.327	3.17
557972		270	3.3	46.9	0.008	2.37	0.44	14.4	1	1.1	32.9	0.14	0.07	2.83	0.095	0.88
557973		580	1.5	12.2	0.003	0.19	0.25	39.2	1	0.2	91.2	0.07	<0.05	0.24	0.169	0.26
557974		350	1.4	17.4	0.002	1.03	0.23	36.7	1	0.4	113.5	0.06	0.08	0.32	0.151	0.30
557975		790	1.6	23.3	0.002	0.38	0.32	29.5	<1	0.4	84.3	0.15	<0.05	2.03	0.303	0.35
557976		60	<0.5	0.5	<0.002	<0.01	<0.05	0.3	1	<0.2	80.4	<0.05	<0.05	0.06	0.007	<0.02
557977		400	2.5	69.2	0.005	0.19	0.51	42.5	1	0.8	43.3	0.29	<0.05	2.17	0.712	0.92
557978		390	2.2	75.7	0.006	0.28	0.56	38.0	1	0.8	44.1	0.32	0.05	3.72	0.628	1.07
557979		590	1.4	14.0	0.002	0.02	0.30	38.6	<1	0.7	43.1	0.26	<0.05	1.01	0.599	0.43
557980		1070	1.1	2.8	<0.002	0.02	0.21	24.2	<1	<0.2	40.8	0.19	<0.05	0.15	0.339	0.05



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Page: 2 - D  
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**CERTIFICAT D'ANALYSE VO18244254**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557961		9.2	171	1.3	11.0	1070	99.2
557962		9.2	176	2.2	8.8	919	93.2
557963		10.3	185	3.7	8.1	615	85.0
557964		12.6	182	3.7	13.1	595	168.0
557965		12.3	200	3.4	12.2	601	154.0
557966		39.5	931	2.7	21.3	1550	50.1
557967		64.2	1340	3.2	26.3	3460	65.4
557968		56.0	1260	2.7	25.4	3220	67.3
557969		1.1	153	2.0	19.8	139	141.0
557970		21.9	444	2.5	9.9	1620	77.5
557971		14.1	183	2.7	13.7	261	211
557972		2.5	194	0.9	3.3	118	45.9
557973		0.2	312	1.0	3.8	207	51.0
557974		0.2	273	0.4	3.2	238	42.3
557975		1.3	273	0.4	5.0	275	55.9
557976		0.2	2	<0.1	1.9	4	1.6
557977		1.2	406	1.0	4.7	203	65.0
557978		1.5	369	1.1	5.7	186	64.7
557979		0.7	357	1.2	3.7	251	64.1
557980		0.2	202	0.4	4.0	161	38.0



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
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**CERTIFICAT D'ANALYSE VO18244254**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
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## CERTIFICAT VO18244255

Projet: Kan

Bon de commande #: KANDH18-PRIORITY-039

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICAT D'ANALYSE VO18244255**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
555521		2.25	<0.001	0.21	6.19	53.4	160	0.88	0.01	4.55	0.39	9.64	43.7	120	1.53	111.0
555522		2.11	<0.001	0.14	4.62	2.9	220	2.25	0.09	0.47	0.05	53.5	9.6	73	1.83	44.5
555523		2.08	<0.001	0.16	6.22	0.5	280	2.91	0.08	0.12	0.05	61.0	8.3	108	1.98	43.3
555524		1.66	<0.001	0.31	5.66	1.5	180	1.96	0.07	0.20	0.06	63.2	14.0	102	1.29	94.0
555525		2.63	<0.001	0.02	3.85	19.5	100	0.49	0.02	8.14	0.18	7.72	22.3	69	0.80	32.8
555526		0.40	0.003	0.01	0.17	<0.2	20	0.06	0.04	32.8	<0.02	1.51	0.9	4	<0.05	2.0
555527		2.26	<0.001	0.07	1.37	<0.2	90	0.45	0.02	5.89	0.13	9.82	3.8	30	0.67	27.5
555528		2.35	<0.001	0.06	0.38	<0.2	<10	0.14	0.02	8.31	0.07	11.70	2.6	9	<0.05	10.8
555529		2.45	<0.001	0.34	0.79	5.8	10	0.13	0.05	7.37	0.16	15.70	2.3	15	0.10	96.8
555530		2.51	0.001	0.72	4.65	0.8	150	1.15	0.25	2.31	0.21	52.3	5.8	72	1.74	207
555531		2.24	0.001	0.74	5.49	1.0	160	1.69	0.39	0.17	0.13	44.9	2.1	60	3.28	187.5
555532		3.32	<0.001	0.45	3.30	0.8	70	0.58	0.05	4.57	0.31	24.8	2.8	43	0.86	210
555533		1.82	0.031	1.51	1.01	338	30	0.50	0.31	4.42	5.39	37.3	24.2	28	1.09	298
555534		3.01	0.039	1.97	1.53	57.4	60	0.76	0.43	3.70	7.79	41.8	22.2	33	1.52	261
555535		3.15	0.636	0.10	1.47	1.7	30	0.25	0.04	3.29	0.32	11.80	12.5	9	0.44	42.4
555536		2.11	0.038	0.47	7.33	13.3	270	2.94	0.42	0.18	0.19	72.8	12.0	80	3.64	171.0
555537		2.71	0.008	0.24	2.12	16.4	40	0.39	0.16	3.43	0.66	24.0	11.3	44	0.66	109.0
555538		2.54	0.003	0.20	6.15	22.7	250	1.92	0.16	0.22	0.90	52.0	14.9	81	2.26	58.8
555539		0.07	0.668	0.19	7.55	20.4	340	1.45	0.16	4.24	0.20	52.3	43.2	177	1.99	55.0
555540		2.36	0.007	0.37	4.00	25.2	130	1.12	0.16	0.64	0.66	37.6	33.1	47	1.47	137.0



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 9-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244255**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
555521		8.77	15.40	0.09	1.2	<0.005	0.073	1.49	3.5	58.3	5.03	957	0.25	0.02	2.3	73.7
555522		8.36	15.85	0.10	1.7	0.020	0.047	1.85	27.5	28.0	1.50	957	0.97	0.05	7.8	33.5
555523		9.30	21.2	0.13	3.1	0.022	0.059	2.39	26.6	48.7	2.22	722	2.03	0.06	10.8	34.5
555524		12.10	19.00	0.14	2.5	0.023	0.053	1.72	32.1	48.7	2.60	616	2.05	0.05	4.3	46.3
555525		7.30	8.47	0.07	0.9	0.014	0.065	0.73	2.7	24.8	4.18	2360	0.17	1.11	1.2	63.4
555526		0.23	0.46	0.07	0.1	<0.005	0.005	0.04	1.4	1.5	1.20	111	0.08	0.05	0.2	1.6
555527		10.30	5.18	0.06	0.5	0.009	0.026	0.62	5.2	6.3	3.10	3080	0.82	0.04	1.1	10.7
555528		14.60	3.38	0.08	0.2	<0.005	0.010	0.01	6.7	4.7	4.18	4790	0.58	0.12	1.1	3.3
555529		13.25	3.49	0.07	0.3	0.015	0.013	0.10	8.4	10.8	3.52	4760	0.45	0.05	0.7	31.7
555530		16.35	16.15	0.14	2.5	0.023	0.053	1.74	29.6	32.6	2.70	1820	17.40	0.08	4.7	80.6
555531		18.80	17.00	0.15	2.0	0.025	0.050	2.48	24.5	31.7	1.33	297	7.62	0.08	2.6	121.0
555532		15.80	10.50	0.09	0.9	0.019	0.040	0.88	13.3	36.6	4.15	3590	3.00	0.03	2.1	68.8
555533		17.75	3.47	0.17	0.6	0.211	0.041	0.52	23.8	5.6	2.42	6690	91.8	0.01	1.3	246
555534		16.45	4.71	0.16	0.9	0.213	0.058	0.81	26.5	7.7	1.71	4460	108.5	0.02	2.1	216
555535		22.2	5.77	0.10	0.2	0.007	0.029	0.28	6.7	10.3	3.66	6120	0.44	0.01	0.8	19.5
555536		17.80	22.1	0.16	3.6	0.018	0.110	3.51	40.5	29.3	1.37	1480	18.45	0.48	8.3	78.6
555537		17.20	6.97	0.10	1.0	0.024	0.039	0.51	13.3	12.7	2.59	7440	6.72	0.02	3.5	52.3
555538		14.15	17.30	0.12	2.0	0.022	0.070	2.40	27.3	29.8	2.11	2240	4.57	0.22	5.1	46.8
555539		7.46	19.75	0.11	3.8	0.023	0.074	0.92	23.5	14.0	2.94	982	2.45	1.75	20.9	147.0
555540		18.10	13.85	0.12	1.5	0.018	0.064	1.26	21.3	24.4	1.79	1460	8.07	0.08	3.6	70.4





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 9-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244255**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
555521		360	3.7	48.3	0.002	0.02	0.51	42.2	1	0.6	213	0.15	<0.05	0.21	0.441	0.41
555522		230	5.7	65.0	0.006	2.64	0.65	8.5	1	2.9	27.8	0.33	0.25	6.13	0.102	1.09
555523		480	7.4	50.1	0.009	2.66	0.92	13.7	1	3.5	19.0	0.57	0.21	8.24	0.177	1.44
555524		340	7.0	43.3	0.005	4.04	0.71	10.6	2	2.6	18.9	0.23	0.41	9.35	0.115	1.11
555525		190	2.0	21.5	<0.002	0.47	0.33	26.9	<1	0.4	410	0.06	0.07	0.22	0.169	0.44
555526		70	0.5	1.2	<0.002	0.01	0.07	0.8	<1	<0.2	91.8	<0.05	<0.05	0.12	0.010	0.02
555527		270	2.5	19.0	0.002	1.18	0.18	6.8	1	0.3	230	0.06	0.14	0.68	0.043	0.40
555528		90	1.6	0.3	<0.002	0.79	0.06	1.0	<1	<0.2	208	0.07	0.10	0.40	0.014	<0.02
555529		120	3.9	3.0	<0.002	2.89	0.59	1.5	1	<0.2	249	0.05	0.31	0.99	0.010	0.08
555530		200	13.8	55.5	0.018	6.85	3.28	11.1	7	1.6	140.0	0.23	0.74	4.06	0.116	1.35
555531		160	19.3	82.1	0.011	8.43	5.09	9.6	8	1.5	22.6	0.12	1.05	6.60	0.099	1.74
555532		210	6.4	25.9	0.004	5.18	1.05	7.8	4	0.6	245	0.15	0.25	2.44	0.072	0.75
555533		4790	70.9	19.0	0.048	10.00	17.00	3.0	19	0.5	174.5	0.07	0.48	1.46	0.025	0.61
555534		2920	92.8	27.5	0.054	9.66	22.8	4.2	16	0.7	150.5	0.15	0.59	2.33	0.043	0.90
555535		160	2.6	9.4	<0.002	2.02	0.21	2.5	1	0.3	143.5	0.06	0.17	0.75	0.026	0.18
555536		290	16.3	117.0	0.022	7.22	3.13	15.1	4	2.8	31.7	0.41	0.69	7.99	0.169	1.91
555537		410	6.3	17.3	0.008	4.60	1.08	4.6	2	0.3	128.5	0.21	0.30	2.27	0.076	0.35
555538		370	9.1	78.1	0.007	3.57	1.08	11.7	2	1.4	22.5	0.26	0.22	5.94	0.137	1.23
555539		1190	13.9	42.1	<0.002	0.03	1.02	20.4	<1	1.8	362	1.15	0.06	5.21	0.959	0.19
555540		600	7.0	42.4	0.009	6.60	1.00	9.3	5	0.9	33.1	0.17	0.50	2.39	0.080	0.69



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 9-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244255**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
555521		0.1	317	1.0	5.9	152	40.0
555522		4.6	183	0.8	7.2	134	66.0
555523		8.4	232	1.4	8.5	201	120.5
555524		5.4	154	1.2	7.1	220	93.2
555525		0.2	159	0.4	6.7	92	32.4
555526		0.2	5	0.2	2.3	6	3.2
555527		0.6	78	0.3	6.0	32	18.5
555528		0.5	38	0.1	6.7	28	10.4
555529		0.6	32	0.1	6.5	67	13.2
555530		6.5	118	1.0	7.6	109	102.5
555531		4.6	151	1.0	5.2	73	73.3
555532		1.7	113	0.7	6.8	156	38.9
555533		35.1	724	1.5	24.7	827	29.8
555534		41.7	835	2.0	22.4	1200	38.8
555535		0.3	44	0.2	5.2	134	8.8
555536		12.2	201	1.1	9.0	92	138.5
555537		3.7	88	0.2	5.7	236	41.5
555538		5.9	164	0.7	7.2	326	77.2
555539		1.2	151	2.1	21.0	138	155.5
555540		5.1	117	0.5	6.9	261	66.8



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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **9-OCT-2018**  
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**CERTIFICAT D'ANALYSE VO18244255**

<b>COMMENTAIRE DE CERTIFICAT</b>							
	<b>COMMENTAIRES ANALYTIQUES</b>						
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61						
	<b>ADRESSE DE LABORATOIRE</b>						
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	LOG-21	LOG-23	PUL-QC	SPL-21	WEI-21
CRU-31	LOG-21	LOG-23					
PUL-QC	SPL-21	WEI-21					
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61			
Au-ICP21	Hg-MS42	ME-MS61					



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 13-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18244258

Projet: Kan

Bon de commande #: KANDH18-097

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244258**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557921		4.94	0.005	0.22	7.66	2.4	370	2.40	0.21	0.31	0.24	59.1	21.6	99	8.02	55.9
557922		4.67	0.003	0.28	8.10	<0.2	360	2.72	0.26	0.22	0.14	64.0	26.1	104	6.11	60.9
557923		4.33	<0.001	0.12	8.74	0.2	450	3.21	0.11	0.07	0.27	51.6	10.8	92	5.48	31.8
557924		4.54	<0.001	0.17	7.80	0.7	320	1.77	0.15	0.13	0.42	51.9	15.8	82	3.84	66.2
557925		5.05	0.001	0.27	7.96	6.7	390	2.00	0.28	0.19	0.71	51.5	18.9	81	4.48	93.9
557926		3.83	<0.001	0.13	8.31	29.2	370	1.94	0.12	0.20	0.58	57.5	11.9	85	4.28	52.1
557927		4.61	0.001	0.19	8.31	109.5	420	2.30	0.18	0.12	0.88	38.7	16.4	92	4.98	67.2
557928		4.95	0.001	0.38	6.02	0.2	180	0.87	0.22	0.69	0.79	50.1	25.3	63	2.25	164.5
557929		0.07	2.50	0.46	6.95	11.9	320	1.25	0.17	4.82	0.09	45.1	51.7	316	0.69	80.7
557930		4.91	0.001	0.32	6.82	8.1	230	1.08	0.18	0.51	0.87	57.9	23.0	73	2.99	139.0
557931		4.56	0.002	0.31	9.09	0.6	440	2.21	0.26	0.07	0.88	52.4	15.4	87	5.57	78.9
557932		4.34	<0.001	0.28	8.47	2.5	390	2.07	0.18	0.08	1.42	52.5	15.0	82	5.16	73.8
557933		4.51	0.001	0.28	8.45	79.2	380	1.84	0.18	0.14	2.05	48.3	16.9	83	4.86	84.4
557934		4.36	0.003	0.35	8.57	7.0	440	2.03	0.26	0.22	3.63	46.3	17.6	86	5.60	72.6
557935		4.59	0.002	0.33	8.89	2.2	480	2.11	0.26	0.20	2.54	56.0	15.2	85	6.01	60.6
557936		0.30	<0.001	0.01	0.13	<0.2	20	0.08	0.01	34.2	0.02	1.07	0.8	2	0.06	1.2
557937		4.56	0.005	0.31	8.57	1.9	470	1.98	0.26	0.50	1.11	51.2	15.9	86	5.45	72.3
557938		4.86	0.002	0.23	8.44	<0.2	460	1.84	0.17	0.26	0.09	47.2	15.8	84	4.92	91.8
557939		4.52	<0.001	0.07	8.04	7.5	360	1.57	0.03	1.32	0.16	47.7	16.0	91	3.77	55.0
557940		4.61	<0.001	0.09	6.33	66.7	200	0.94	0.01	5.44	0.35	8.88	43.4	127	1.84	35.3



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
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 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244258**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
557921		10.80	20.2	0.12	2.2	0.018	0.055	4.11	30.5	40.3	1.41	1750	1.70	0.03	10.6	47.6
557922		10.85	22.0	0.15	2.2	0.014	0.055	4.08	33.3	47.2	1.36	1260	1.97	0.03	11.8	54.0
557923		5.86	22.0	0.17	2.4	0.007	0.055	4.73	27.1	49.4	0.98	614	1.83	0.04	8.1	32.8
557924		10.35	20.4	0.14	2.0	0.016	0.044	3.43	28.6	40.4	1.43	1580	8.33	0.03	6.9	39.9
557925		8.81	20.4	0.17	2.2	0.016	0.051	4.30	25.9	39.1	1.09	1320	27.0	0.04	7.3	54.8
557926		7.87	22.2	0.16	2.2	0.010	0.050	4.04	30.8	42.1	1.26	956	2.08	0.04	7.3	30.6
557927		8.00	23.1	0.15	2.4	0.008	0.058	4.58	18.2	43.2	1.08	1280	5.57	0.05	7.9	42.5
557928		17.15	16.00	0.15	1.5	0.016	0.034	1.96	24.3	30.1	1.82	1940	5.45	0.02	4.9	61.2
557929		7.56	18.30	0.14	3.7	0.044	0.059	1.00	22.5	9.9	5.57	1060	3.24	2.01	30.3	361
557930		15.70	17.70	0.14	1.8	0.017	0.035	2.55	27.7	32.7	1.79	1530	2.96	0.03	5.7	55.3
557931		7.37	23.1	0.17	2.3	0.006	0.055	4.92	27.5	44.2	1.00	294	2.37	0.05	7.8	50.5
557932		8.47	21.9	0.15	2.3	0.009	0.054	4.32	28.0	41.9	1.21	588	1.84	0.04	7.4	45.2
557933		9.21	21.5	0.14	2.4	0.015	0.050	4.14	24.5	42.4	1.33	502	4.34	0.04	7.4	51.1
557934		8.12	22.8	0.17	2.7	0.019	0.056	4.62	22.7	43.4	1.08	438	4.78	0.05	7.8	58.9
557935		7.07	23.3	0.18	2.7	0.012	0.058	4.70	28.0	44.4	1.05	326	4.54	0.06	8.4	52.1
557936		0.17	0.46	0.10	0.1	<0.005	<0.005	0.03	1.2	1.6	1.54	99	0.11	0.06	0.2	0.5
557937		7.49	22.6	0.13	2.6	0.008	0.057	4.49	25.3	39.1	1.15	343	5.22	0.06	7.9	50.0
557938		7.09	22.5	0.12	2.5	0.006	0.054	4.13	23.0	39.0	1.25	229	5.29	0.05	7.2	53.0
557939		7.01	20.7	0.13	2.3	0.010	0.053	3.30	24.7	43.8	2.22	587	4.02	0.04	6.2	52.2
557940		8.81	15.65	0.09	1.4	<0.005	0.059	1.89	3.3	45.5	4.60	1400	0.26	0.03	2.7	76.2



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 13-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244258**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557921		230	12.1	196.0	0.009	2.23	2.15	12.4	3	1.4	25.6	0.81	0.11	8.62	0.323	2.05
557922		220	13.6	181.0	0.006	2.60	2.44	13.7	2	1.6	21.7	0.83	0.13	9.03	0.338	1.52
557923		180	6.7	187.0	0.004	1.09	1.66	10.3	1	2.5	13.0	0.65	0.07	10.40	0.273	1.41
557924		200	6.8	140.5	0.005	1.43	1.49	10.7	2	1.2	16.0	0.56	0.13	9.28	0.236	0.91
557925		260	11.9	162.5	0.008	2.11	2.17	9.7	2	1.4	21.1	0.62	0.18	8.68	0.254	1.15
557926		140	6.1	160.0	0.005	1.24	1.30	10.5	2	1.4	22.5	0.63	0.06	9.72	0.250	1.07
557927		150	9.3	150.0	0.010	1.75	1.72	10.9	3	1.6	17.8	0.66	0.14	7.56	0.278	1.31
557928		910	10.3	78.3	0.008	4.01	1.53	8.3	5	0.7	45.6	0.39	0.17	6.71	0.178	0.62
557929		1870	5.0	32.9	<0.002	0.04	0.36	20.2	1	1.3	490	1.68	0.09	2.81	1.050	0.08
557930		1070	9.0	97.3	0.012	3.72	1.35	9.3	4	0.9	41.9	0.47	0.17	7.71	0.213	0.76
557931		150	11.6	184.5	0.012	2.35	2.67	11.5	3	1.6	14.4	0.63	0.17	9.58	0.281	1.37
557932		190	9.5	168.5	0.010	2.45	2.35	11.9	3	1.5	14.7	0.63	0.12	9.46	0.264	1.28
557933		210	10.7	148.5	0.013	2.70	2.28	11.9	3	1.5	18.5	0.66	0.14	9.02	0.264	1.21
557934		140	16.0	157.5	0.016	2.92	3.14	11.5	3	1.6	24.4	0.64	0.14	9.17	0.283	1.41
557935		160	14.4	165.0	0.011	2.49	3.32	11.5	3	1.7	25.5	0.67	0.10	10.90	0.285	1.49
557936		60	<0.5	1.2	<0.002	<0.01	<0.05	0.2	<1	<0.2	84.4	<0.05	<0.05	0.17	0.006	0.02
557937		140	14.9	146.0	0.014	2.55	3.29	10.7	3	1.6	37.6	0.65	0.12	10.05	0.279	1.49
557938		150	10.3	139.5	0.011	2.01	2.65	11.2	3	1.4	24.8	0.61	0.11	9.25	0.270	1.33
557939		180	4.6	123.5	0.009	0.72	0.58	15.4	2	1.1	60.7	0.52	<0.05	8.61	0.318	0.92
557940		350	3.6	68.6	0.002	0.08	0.28	40.6	<1	0.6	232	0.17	<0.05	0.24	0.588	0.55



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18244258**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
557921	0.1	4.6	179	2.0	6.9	189	78.3
557922		5.3	203	2.1	7.5	168	80.3
557923		2.6	129	2.5	5.3	111	84.6
557924		2.0	106	1.4	5.2	253	71.7
557925		2.9	140	1.6	5.5	187	75.1
557926		2.2	107	1.5	5.2	218	75.8
557927		2.8	178	1.7	4.7	182	83.3
557928		2.1	121	0.6	6.9	359	54.2
557929		0.7	149	3.5	21.7	105	153.0
557930		2.5	142	0.7	7.8	375	63.6
557931		3.2	219	1.5	5.3	157	81.9
557932		2.9	186	1.3	5.7	236	79.2
557933		3.6	215	1.2	5.5	300	81.8
557934		5.0	275	1.4	5.7	336	92.1
557935		5.6	271	1.5	6.1	246	94.7
557936		0.2	1	0.1	2.3	4	2.6
557937		5.5	263	1.4	5.6	167	90.3
557938		5.7	272	1.4	5.5	135	86.3
557939		4.2	252	1.1	6.3	210	82.1
557940		0.1	333	0.9	5.6	195	46.9





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Page: **Annexe 1**  
 Total # les pages d'annexe: **1**  
 Finalisée date: **13-OCT-2018**  
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**CERTIFICAT D'ANALYSE VO18244258**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 19-OCT-2018  
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## CERTIFICAT VO18244260

Projet: Kan

Bon de commande #: KANDH18-100

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 19-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244260**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557981		4.41	0.017	0.06	6.24	56.7	80	0.60	0.04	0.24	0.04	12.15	40.2	151	0.75	21.5
557982		1.74	0.023	0.15	8.35	6.7	490	2.74	0.25	0.12	0.08	62.8	15.5	90	4.13	56.2
557983		2.73	0.007	0.05	6.77	55.6	180	1.05	0.02	3.97	0.25	19.85	27.0	116	1.32	31.5
557984		2.16	0.065	0.08	0.12	38.5	10	0.18	0.03	1.15	0.06	9.45	2.5	25	0.08	7.0
557985		2.08	0.002	0.02	0.09	4.5	10	0.13	0.01	3.07	0.05	6.77	1.9	9	0.07	2.3
557986		2.61	0.007	0.03	0.31	0.5	20	0.42	0.02	3.34	0.05	11.55	3.7	11	0.31	5.3
557987		2.32	0.055	0.02	0.45	0.3	20	0.50	0.02	2.14	0.04	12.65	5.3	14	0.91	4.9
557988		2.61	0.042	0.02	0.47	1.0	20	0.71	0.03	2.33	0.03	15.65	6.3	12	0.88	5.0
557989		0.07	2.50	0.47	7.07	12.3	330	1.18	0.17	5.10	0.09	45.0	50.7	309	0.65	81.0
557990		2.45	0.001	0.01	0.23	1.0	10	0.62	0.01	1.69	<0.02	9.57	4.0	11	0.76	2.9
557991		2.26	<0.001	0.01	0.19	1.6	10	0.80	0.01	2.46	<0.02	11.50	2.7	8	0.17	2.6
557992		2.16	0.001	0.03	0.32	0.8	<10	0.69	0.01	2.88	<0.02	12.00	4.6	10	0.06	4.3
557993		2.76	0.003	0.04	0.63	0.5	10	1.20	0.04	3.03	<0.02	19.55	9.6	14	0.33	8.0
557994		2.11	0.004	0.13	0.50	1.7	<10	1.26	0.04	1.95	<0.02	13.50	7.9	19	0.11	7.9
557995		2.53	0.001	0.09	0.45	1.2	10	0.69	0.03	2.27	0.02	11.85	4.7	11	0.08	5.9
557996		0.28	0.003	0.01	0.07	0.5	20	0.05	0.01	34.4	0.02	1.07	0.5	2	<0.05	2.3
557997		2.53	0.136	0.02	0.35	2.7	<10	1.42	0.02	1.92	0.03	10.95	4.4	10	<0.05	3.9
557998		2.39	0.001	0.03	0.23	0.6	<10	1.14	0.02	1.90	0.02	10.75	3.7	8	0.05	4.1
557999		2.15	<0.001	0.03	0.06	2.2	10	0.39	0.01	2.18	<0.02	6.32	1.7	11	0.13	2.8
558000		2.37	<0.001	0.02	0.07	7.2	<10	0.32	0.01	2.15	<0.02	6.65	1.5	11	0.06	1.6



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18244260**

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
557981		15.80	21.0	0.06	2.0	<0.005	0.043	0.59	5.3	60.6	3.88	1660	1.10	0.03	13.4	90.7
557982		8.17	22.1	0.08	2.6	0.006	0.060	4.15	32.2	29.8	1.20	637	3.52	0.08	11.7	52.4
557983		9.72	15.85	0.06	1.4	0.005	0.054	1.50	9.5	37.9	3.70	1720	1.55	1.45	2.6	85.4
557984		17.10	0.66	<0.05	0.1	<0.005	0.005	0.05	5.6	1.1	2.69	4400	0.55	0.01	0.6	5.1
557985		13.85	0.58	<0.05	<0.1	<0.005	<0.005	0.04	3.9	0.9	2.63	3540	0.46	0.01	0.4	3.4
557986		22.8	2.63	0.05	0.2	<0.005	0.009	0.06	6.9	2.7	3.22	5420	0.72	0.01	2.3	5.1
557987		28.3	2.32	0.05	0.2	<0.005	0.009	0.05	7.8	2.5	3.17	5970	2.37	0.01	2.1	7.0
557988		25.0	2.62	0.06	0.3	<0.005	0.009	0.04	9.5	2.6	2.82	5100	2.67	0.01	2.3	6.9
557989		7.92	17.60	0.07	3.4	0.052	0.063	1.04	21.0	7.9	5.87	1090	3.15	2.10	26.6	363
557990		23.3	1.16	<0.05	0.1	<0.005	<0.005	0.04	6.0	1.9	2.56	5430	1.36	0.01	1.4	4.6
557991		24.6	1.09	0.05	0.1	<0.005	0.005	0.01	7.2	1.6	2.80	6240	0.84	<0.01	1.0	5.0
557992		23.5	2.68	<0.05	0.2	<0.005	0.010	0.01	7.4	2.6	3.13	5220	1.19	<0.01	1.8	6.6
557993		31.6	6.92	0.06	0.5	<0.005	0.007	0.02	12.0	4.4	4.47	6030	0.81	<0.01	4.0	10.6
557994		24.9	4.61	<0.05	0.3	0.005	0.010	0.01	8.1	3.4	3.05	5500	2.55	<0.01	2.6	8.9
557995		24.6	2.59	<0.05	0.2	<0.005	0.011	0.01	7.6	3.1	2.88	5260	2.84	0.01	2.1	6.9
557996		0.33	0.23	<0.05	<0.1	<0.005	0.006	0.02	1.2	1.2	1.26	129	0.09	0.03	0.1	0.3
557997		25.7	2.22	0.06	0.2	<0.005	0.009	0.01	6.8	3.3	2.96	5870	2.22	<0.01	1.8	6.0
557998		25.4	1.72	<0.05	0.1	<0.005	0.006	0.01	6.6	2.1	3.18	6170	1.43	<0.01	1.4	5.1
557999		11.80	0.37	<0.05	<0.1	<0.005	<0.005	0.02	3.7	0.9	2.14	2840	0.32	0.01	0.5	2.2
558000		10.80	0.48	<0.05	<0.1	<0.005	<0.005	0.02	3.8	1.0	2.09	2670	0.29	0.01	0.5	2.6



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 19-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244260**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557981		740	2.2	7.0	0.003	0.65	0.40	26.9	1	0.4	16.1	0.50	0.10	1.47	0.642	0.29
557982		250	9.9	131.5	0.013	2.24	2.23	11.9	2	2.0	19.4	0.82	0.21	9.59	0.323	1.78
557983		350	3.4	45.2	0.004	0.47	0.41	28.1	<1	0.7	148.5	0.19	<0.05	2.94	0.345	0.68
557984		150	2.6	1.7	<0.002	0.39	0.43	0.4	<1	<0.2	16.5	<0.05	0.07	0.09	0.006	0.06
557985		120	1.0	1.3	0.002	0.11	0.31	0.2	1	<0.2	31.5	<0.05	<0.05	0.09	0.005	0.04
557986		210	1.6	2.7	<0.002	0.34	0.29	0.8	<1	<0.2	42.3	0.10	0.05	0.33	0.023	0.10
557987		380	1.4	2.5	0.002	0.36	0.37	0.9	<1	<0.2	28.7	0.11	0.07	0.35	0.030	0.09
557988		480	1.7	2.5	<0.002	0.34	0.25	1.0	1	0.2	31.2	0.11	0.08	0.42	0.031	0.11
557989		1910	5.4	28.1	<0.002	0.04	0.39	18.9	<1	1.3	489	1.55	0.11	2.69	1.095	0.07
557990		280	0.9	1.9	<0.002	0.11	0.23	0.5	<1	<0.2	20.2	0.07	<0.05	0.20	0.015	0.06
557991		360	1.5	0.6	<0.002	0.08	0.29	0.5	<1	<0.2	28.3	0.07	<0.05	0.18	0.010	0.03
557992		250	1.5	0.2	<0.002	0.23	0.49	0.8	<1	<0.2	28.8	0.09	<0.05	0.28	0.020	<0.02
557993		200	2.6	1.3	0.002	0.62	0.37	1.5	1	<0.2	28.5	0.19	0.06	0.66	0.046	0.06
557994		340	2.3	0.4	<0.002	0.53	0.32	1.1	1	<0.2	18.7	0.13	0.12	0.45	0.035	0.02
557995		370	1.5	0.4	0.002	0.30	0.28	1.1	1	<0.2	25.1	0.10	0.06	0.36	0.031	<0.02
557996		60	0.6	0.4	<0.002	<0.01	0.13	0.2	1	<0.2	84.7	<0.05	<0.05	0.07	0.005	<0.02
557997		220	1.4	0.2	<0.002	0.24	0.29	0.9	1	<0.2	23.4	0.09	0.07	0.31	0.025	<0.02
557998		190	1.3	0.3	<0.002	0.26	0.28	0.6	1	<0.2	21.2	0.07	0.05	0.23	0.017	<0.02
557999		100	1.0	1.0	<0.002	0.14	0.26	0.1	<1	<0.2	12.1	<0.05	<0.05	0.05	<0.005	0.04
558000		90	1.0	0.7	0.002	0.17	0.24	0.2	<1	<0.2	10.1	<0.05	<0.05	0.06	<0.005	0.02



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 19-OCT-2018  
Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244260**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557981		1.9	316	1.0	4.1	273	68.7
557982		6.3	260	2.4	7.1	96	90.2
557983		1.5	266	0.9	4.1	211	46.8
557984		0.4	12	0.4	3.6	28	3.5
557985		0.2	8	0.2	4.0	11	2.3
557986		0.5	31	0.3	5.3	13	8.4
557987		0.5	37	0.2	5.8	12	9.7
557988		0.5	39	0.2	6.5	10	10.5
557989		0.6	150	3.3	19.1	109	141.0
557990		0.2	22	0.3	5.0	8	5.6
557991		0.2	19	0.2	5.6	8	4.5
557992		0.4	28	0.3	5.6	8	7.8
557993		1.4	53	0.4	7.8	10	22.9
557994		0.6	45	0.5	5.5	9	11.8
557995		0.4	36	0.5	5.7	10	9.9
557996		0.2	1	0.3	1.9	3	1.4
557997		0.4	31	0.2	5.4	11	8.9
557998		0.3	23	0.2	5.1	9	6.7
557999		0.2	5	0.2	3.6	5	2.8
558000		0.3	7	0.3	3.5	4	2.8



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **19-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244260**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.  
CRU-31 CRU-QC LOG-21  
PUL-31 PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
Finalisée date: 19-OCT-2018  
Compte: MINVIR

## CERTIFICAT VO18244262

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Bon de commande #: KANDH18-096

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-23	Entrée pulpe - Reçu avec code barre
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 19-OCT-2018  
 Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244262**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
557901		5.17	0.038	1.59	4.67	3.3	130	1.71	0.38	0.17	5.10	38.4	29.0	77	2.06	303
557902		5.26	0.030	1.36	3.66	0.8	140	1.40	0.32	0.45	3.40	37.9	10.5	60	1.34	353
557903		1.23	0.015	0.90	3.45	0.5	70	1.03	0.24	0.56	0.83	38.3	15.4	67	0.75	198.0
557904		2.40	<0.001	0.12	8.45	3.0	440	3.43	0.04	0.07	0.04	56.0	9.6	89	3.54	22.4
557905		4.47	0.004	0.10	7.64	23.1	360	2.66	0.09	0.17	0.18	53.9	15.4	76	3.21	48.1
557906		4.56	0.007	0.15	7.78	7.0	350	2.07	0.16	0.29	0.55	47.7	17.1	78	3.20	79.8
557907		4.18	0.013	0.20	7.14	0.5	320	1.96	0.22	0.07	0.63	23.9	19.8	72	3.28	96.4
557908		4.45	0.007	0.15	7.25	2.1	300	1.81	0.12	0.35	0.98	45.7	15.3	74	3.12	88.6
557909		0.05	0.664	0.19	6.78	19.1	310	1.43	0.13	4.31	0.18	47.0	39.0	173	1.79	52.5
557910		4.58	0.004	0.11	7.24	16.9	330	1.95	0.10	0.47	1.27	49.1	13.5	73	3.43	65.5
557911		4.79	0.012	0.25	8.65	1.3	420	2.45	0.27	0.14	1.39	52.2	20.0	83	4.24	103.0
557912		4.44	0.009	0.21	8.06	1.4	390	2.61	0.22	0.20	1.06	49.4	17.6	78	4.23	86.6
557913		4.35	0.010	0.21	8.57	1.3	410	2.49	0.22	0.13	1.98	51.5	17.9	82	4.28	87.8
557914		4.73	0.009	0.26	8.30	4.1	400	2.66	0.26	0.13	0.74	51.7	19.5	78	4.37	104.5
557915		4.49	0.002	0.15	7.69	10.1	350	2.24	0.11	0.19	0.96	50.6	14.9	76	3.82	73.0
557916		0.24	<0.001	<0.01	0.10	<0.2	20	0.08	0.01	34.5	<0.02	1.05	0.5	1	<0.05	1.6
557917		4.27	0.002	0.14	8.27	1.3	390	2.06	0.13	0.28	1.05	56.7	15.8	87	4.20	67.6
557918		4.36	<0.001	0.13	7.16	0.7	330	1.55	0.07	0.17	0.85	47.5	12.8	75	3.79	72.3
557919		4.54	<0.001	0.06	8.18	0.2	440	2.58	0.02	0.36	0.32	50.9	4.8	86	5.75	19.6
557920		4.73	0.003	0.14	8.29	0.6	450	2.78	0.17	0.17	0.89	54.8	15.8	79	6.90	39.6



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 19-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244262**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
557901		28.7	15.15	0.12	1.8	0.245	0.167	2.25	18.3	20.4	0.58	149	13.70	0.07	3.7	156.5
557902		32.3	11.25	0.11	1.5	0.149	0.106	1.43	19.0	21.6	1.00	519	13.25	0.04	3.8	172.5
557903		22.5	11.25	0.09	1.7	0.108	0.060	0.65	19.5	40.9	2.07	756	16.10	0.02	4.6	102.5
557904		7.89	22.6	0.07	2.3	0.011	0.073	4.07	28.7	35.2	1.63	980	3.72	0.08	7.7	33.6
557905		9.54	19.10	0.08	1.9	0.009	0.051	3.66	26.6	30.1	1.35	1510	1.43	0.07	6.5	30.4
557906		10.75	19.00	0.09	1.8	0.019	0.049	3.67	23.2	36.7	1.44	1060	1.21	0.07	5.9	39.1
557907		11.15	18.85	0.09	1.8	0.023	0.048	3.68	11.0	36.0	1.30	782	1.90	0.06	5.8	49.5
557908		12.35	19.30	0.08	1.8	0.018	0.047	3.47	21.1	38.7	1.72	1450	1.25	0.06	5.6	34.2
557909		7.10	18.05	0.08	3.6	0.020	0.065	0.85	19.4	16.1	2.80	895	2.23	1.67	17.0	133.5
557910		8.32	18.85	0.10	1.7	0.026	0.049	3.75	24.0	35.7	1.30	1060	0.72	0.06	5.7	31.7
557911		8.24	21.3	0.11	1.9	0.018	0.064	4.88	26.2	41.8	0.95	459	2.79	0.07	6.8	55.2
557912		7.17	21.1	0.13	1.9	0.012	0.062	4.71	25.1	40.9	0.96	607	2.39	0.06	6.6	48.1
557913		7.36	21.3	0.12	2.0	0.019	0.055	4.95	25.9	43.9	0.96	498	2.40	0.06	6.7	51.8
557914		7.32	21.8	0.14	2.0	0.012	0.053	4.93	26.2	48.9	0.86	305	4.27	0.05	6.8	58.9
557915		8.66	20.4	0.12	1.9	0.007	0.054	4.03	25.7	45.4	1.28	1070	0.97	0.04	6.6	35.0
557916		0.14	0.28	0.08	0.1	<0.005	<0.005	0.03	1.2	1.3	1.42	88	<0.05	0.03	0.1	<0.2
557917		8.93	20.6	0.11	2.0	0.013	0.047	4.40	28.2	42.1	1.31	1300	19.80	0.04	7.0	34.3
557918		11.40	18.15	0.08	1.9	0.011	0.041	3.56	22.0	34.4	1.56	2270	2.09	0.03	6.0	29.6
557919		6.31	21.0	0.09	2.1	0.005	0.051	4.88	25.6	43.1	1.18	1610	0.55	0.04	6.9	22.1
557920		5.59	20.7	0.11	2.3	0.008	0.046	5.01	28.9	50.1	0.93	379	3.65	0.04	7.2	44.7



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 19-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244262**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
557901		190	44.0	58.8	0.012	>10.0	13.85	8.0	9	4.2	13.5	0.21	1.35	3.61	0.109	2.16
557902		230	32.7	36.1	0.012	>10.0	9.73	7.1	9	3.0	17.8	0.21	1.18	3.14	0.108	1.26
557903		350	23.4	17.3	0.015	8.66	6.98	7.3	6	1.6	18.3	0.25	0.74	3.05	0.102	0.57
557904		230	5.4	133.5	0.004	1.37	1.08	11.5	1	3.2	16.3	0.43	0.14	9.98	0.220	2.01
557905		270	5.0	125.0	0.005	1.63	1.13	9.8	1	1.5	17.4	0.51	0.13	8.87	0.243	1.80
557906		230	7.7	120.5	0.004	2.80	1.66	9.7	3	1.2	20.5	0.50	0.15	8.48	0.245	1.74
557907		150	10.5	109.5	0.009	3.22	2.37	9.1	4	1.2	12.4	0.48	0.16	6.07	0.235	1.65
557908		490	6.8	121.5	0.006	2.49	1.26	9.6	3	1.1	23.7	0.46	0.10	7.83	0.227	1.49
557909		1090	13.3	31.8	<0.002	0.02	1.06	18.2	<1	1.6	326	1.00	0.06	4.46	0.873	0.18
557910		130	7.1	135.5	0.004	1.90	1.51	9.8	2	1.2	28.3	0.46	0.13	8.51	0.227	1.54
557911		170	12.3	167.0	0.010	2.97	2.63	11.1	3	1.5	15.9	0.53	0.16	9.34	0.276	1.82
557912		140	11.6	168.0	0.008	2.31	2.35	11.2	3	1.5	19.6	0.54	0.16	9.19	0.262	1.66
557913		150	13.4	169.5	0.013	2.46	2.21	11.5	3	1.4	16.3	0.54	0.17	9.42	0.274	1.72
557914		180	12.1	172.5	0.014	2.88	2.71	11.3	4	1.5	15.3	0.51	0.17	9.36	0.268	1.54
557915		170	6.7	146.5	0.006	1.78	1.47	11.0	2	1.3	16.8	0.52	0.07	9.24	0.242	1.34
557916		60	0.6	0.9	<0.002	<0.01	0.11	0.2	1	<0.2	83.3	<0.05	<0.05	0.09	0.006	<0.02
557917		220	7.5	157.0	0.005	1.54	1.58	11.1	2	1.4	31.5	0.55	0.12	9.79	0.272	1.35
557918		360	5.2	121.0	0.005	1.50	1.19	9.9	2	1.2	15.8	0.48	0.08	8.16	0.235	1.13
557919		160	3.0	175.5	0.003	0.45	1.05	10.4	<1	1.5	14.0	0.56	<0.05	9.64	0.275	1.58
557920		150	9.0	185.5	0.008	1.27	2.20	10.6	1	1.5	20.8	0.56	0.08	9.97	0.280	1.88



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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Finalisée date: 19-OCT-2018  
Compte: MINVIR

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244262**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
557901		6.7	108	1.2	5.4	1160	69.4
557902		5.7	93	1.0	6.4	745	61.0
557903		5.4	101	0.9	7.0	272	68.5
557904		2.1	111	1.7	5.2	135	77.7
557905		1.9	101	1.4	5.3	225	64.5
557906		2.1	136	1.4	4.8	295	62.0
557907		2.3	167	1.4	3.5	233	60.5
557908		1.9	122	1.2	5.9	327	59.3
557909		1.0	138	2.0	17.9	124	135.0
557910		1.9	108	1.4	4.7	299	60.9
557911		3.3	223	1.5	5.4	232	66.9
557912		2.9	193	1.5	5.1	164	66.6
557913		3.0	216	1.6	5.1	262	66.2
557914		3.4	235	1.6	5.4	127	69.1
557915		2.0	111	1.5	5.0	215	66.7
557916		0.2	2	0.1	2.0	2	2.1
557917		2.4	114	1.6	5.5	263	71.5
557918		1.8	98	1.5	5.4	282	63.9
557919		1.9	87	1.9	5.2	158	74.9
557920		3.1	137	2.1	5.6	128	79.9



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Page: **Annexe 1**  
Total # les pages d'annexe: **1**  
Finalisée date: **19-OCT-2018**  
Compte: **MINVIR**

Projet: Kan

**CERTIFICAT D'ANALYSE VO18244262**

## COMMENTAIRE DE CERTIFICAT

### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Hg-MS42	ME-MS61
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Page: 1  
Nombre total de pages: 2 (A - D)  
plus les pages d'annexe  
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## CERTIFICAT VO18244263

Projet: Kan

Bon de commande #: KANDH18-RUSH-068

Ce rapport s'applique aux 10 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
 Finalisée date: 12-OCT-2018  
 Compte: MINVIR

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**CERTIFICAT D'ANALYSE VO18244263**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
556101		2.77	0.009	0.02	0.06	1.0	10	0.87	0.02	1.15	<0.02	6.89	4.6	5	1.05	3.8
556102		2.23	<0.001	0.01	0.04	1.2	<10	0.93	0.01	1.24	<0.02	5.44	4.7	3	0.56	2.8
556103		2.31	<0.001	0.02	0.03	0.8	10	0.64	0.01	1.21	0.02	7.98	3.5	3	0.09	3.2
556104		2.53	0.012	0.25	1.92	233	30	0.42	0.05	1.86	0.12	25.2	13.3	33	0.46	41.5
556105		2.39	0.372	0.03	0.73	2.2	20	0.17	0.02	1.63	0.17	15.80	4.6	21	0.20	18.7
556106		0.38	<0.001	<0.01	0.15	0.5	20	0.10	0.01	32.0	<0.02	0.95	0.3	1	<0.05	2.1
556107		2.15	0.005	0.03	0.56	0.9	20	0.27	0.02	2.77	0.11	11.05	3.9	14	0.31	8.3
556108		2.34	0.312	0.15	0.63	3.6	10	0.18	0.01	1.32	0.05	11.90	6.1	18	0.06	2.9
556109		2.15	<0.001	0.04	0.65	2.6	10	0.26	0.01	1.34	0.06	12.35	6.2	23	0.12	5.8
556110		1.52	0.006	0.33	1.17	27.1	10	0.28	0.02	1.48	0.23	21.4	25.7	26	0.27	57.2



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Page: 2 – B  
 Nombre total de pages: 2 (A – D)  
 plus les pages d'annexe  
 Finalisée date: 12-OCT-2018  
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**CERTIFICAT D'ANALYSE VO18244263**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
556101		25.6	0.54	0.07	<0.1	<0.005	<0.005	0.02	5.1	0.5	3.70	7670	0.46	0.01	1.3	2.5
556102		28.0	0.40	0.06	<0.1	<0.005	<0.005	0.01	4.0	0.6	4.32	4770	0.14	<0.01	0.4	1.3
556103		28.7	0.30	0.08	<0.1	<0.005	0.006	0.01	5.9	0.8	4.16	5090	0.15	<0.01	0.3	1.7
556104		22.5	7.30	0.09	1.0	0.019	0.024	0.26	14.3	25.4	3.26	4590	4.96	0.02	2.0	32.2
556105		21.6	2.71	0.06	0.5	0.005	0.036	0.10	8.6	11.7	3.09	12350	0.31	0.01	1.9	10.5
556106		0.24	0.45	<0.05	0.1	<0.005	<0.005	0.03	1.1	1.1	1.36	132	0.07	0.08	0.2	<0.2
556107		17.85	2.15	0.06	0.3	<0.005	0.017	0.08	5.8	10.2	2.87	10450	0.56	0.01	1.5	6.7
556108		20.7	2.98	0.07	0.4	0.005	0.019	0.01	6.3	14.2	3.00	12450	0.27	<0.01	2.3	6.5
556109		18.50	3.08	0.05	0.5	0.006	0.013	0.07	6.7	12.9	2.68	12550	0.33	0.01	1.8	8.1
556110		22.7	4.85	0.08	0.8	0.021	0.048	0.07	11.1	22.9	3.83	14050	0.53	0.01	2.9	35.3





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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18244263**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P ppm 10	Pb ppm 0.5	Rb ppm 0.1	Re ppm 0.002	S % 0.01	Sb ppm 0.05	Sc ppm 0.1	Se ppm 1	Sn ppm 0.2	Sr ppm 0.2	Ta ppm 0.05	Te ppm 0.05	Th ppm 0.01	Ti % 0.005	Tl ppm 0.02
556101		130	2.2	1.2	<0.002	0.01	0.30	0.1	<1	0.2	16.9	0.05	0.05	0.07	0.005	0.02
556102		90	0.8	0.6	<0.002	0.02	0.12	0.1	<1	0.2	19.9	<0.05	<0.05	0.04	<0.005	<0.02
556103		40	0.5	0.3	<0.002	0.12	0.10	0.1	<1	<0.2	23.9	<0.05	<0.05	0.03	<0.005	<0.02
556104		130	4.4	7.9	0.007	3.70	0.57	2.8	2	0.2	56.4	0.13	0.32	2.92	0.043	0.26
556105		620	1.3	3.1	<0.002	1.07	0.17	1.6	1	<0.2	46.0	0.14	0.06	0.74	0.035	0.11
556106		60	0.6	0.7	<0.002	<0.01	0.07	0.1	<1	<0.2	78.1	<0.05	<0.05	0.08	<0.005	<0.02
556107		400	1.2	2.8	<0.002	0.51	0.33	1.5	1	<0.2	69.4	0.11	0.05	0.51	0.028	0.10
556108		350	1.0	0.3	<0.002	0.19	0.50	1.8	<1	<0.2	27.4	0.17	<0.05	0.75	0.047	<0.02
556109		390	1.2	2.0	<0.002	0.34	1.20	1.7	<1	<0.2	27.4	0.13	<0.05	0.79	0.050	0.06
556110		650	6.9	1.9	<0.002	3.39	1.23	2.6	2	<0.2	39.0	0.18	0.15	1.32	0.042	0.09



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18244263**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
556101		0.1	8	0.2	7.0	5	3.5
556102		<0.1	10	0.1	7.6	5	2.8
556103		<0.1	12	0.1	7.1	12	2.3
556104		3.0	76	0.2	5.5	112	39.8
556105		0.7	36	0.2	5.9	76	22.5
556106		0.2	1	<0.1	2.1	3	1.6
556107		0.4	28	0.2	4.9	28	12.0
556108		0.5	40	0.3	4.8	31	18.8
556109		0.6	44	0.4	4.5	34	19.7
556110		1.0	60	0.3	5.9	142	37.8



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Page: **Annexe 1**  
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 Finalisée date: **12-OCT-2018**  
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**CERTIFICAT D'ANALYSE VO18244263**

<b>COMMENTAIRE DE CERTIFICAT</b>									
	<b>COMMENTAIRES ANALYTIQUES</b>								
Applique à la Méthode:	L'analyse des terres rares peut être partiellement soluble avec cette méthode. ME-MS61								
	<b>ADRESSE DE LABORATOIRE</b>								
Applique à la Méthode:	Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">PUL-31</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	PUL-31	PUL-QC	SPL-21	WEI-21	
CRU-31	CRU-QC	LOG-21	PUL-31						
PUL-QC	SPL-21	WEI-21							
Applique à la Méthode:	Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Hg-MS42</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> </tr> </table>	Au-ICP21	Hg-MS42	ME-MS61					
Au-ICP21	Hg-MS42	ME-MS61							



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Page: 1  
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## CERTIFICAT VO18247457

Projet: Kan

Bon de commande #: KANDH18-134

Ce rapport s'applique aux 14 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
LOG-21	Entrée échantillon - Code barre client
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
WEI-21	Poids échantillon reçu

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
ME-MS61	ICP-MS 48 éléments, quatre acides	
Hg-MS42		ICP-MS

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18247457**

Description échantillon	Méthode élément unités LDI	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
558711		4.73	0.031	0.95	3.17	139.0	90	0.88	0.14	8.59	7.23	32.5	10.7	39	1.94	80.4
558712		4.25	0.037	1.55	5.26	199.5	110	1.81	0.35	0.33	4.97	50.0	19.4	62	3.63	69.8
558713		3.94	0.068	2.58	2.50	204	100	1.08	0.37	1.75	21.8	41.6	27.8	54	3.51	247
558714		4.62	0.051	1.99	3.87	114.0	120	1.45	0.34	1.96	14.20	47.6	16.8	56	3.22	282
558715		4.63	0.026	1.18	7.01	104.0	170	2.50	0.22	1.73	6.07	63.1	18.0	75	4.39	168.0
558716		0.22	0.001	0.01	0.08	0.6	20	0.09	0.01	33.8	0.04	1.00	0.6	1	<0.05	2.3
558717		4.53	0.024	1.60	5.20	158.0	110	2.48	0.26	3.24	7.36	53.6	17.4	61	3.94	64.7
558718		4.33	0.031	1.54	3.96	34.8	150	1.83	0.24	1.86	10.55	57.3	21.0	52	2.79	295
558719		4.99	0.018	1.29	4.20	12.4	190	2.24	0.31	1.65	9.54	60.3	13.0	52	2.83	321
558720		4.33	0.027	2.12	3.14	29.8	140	2.01	0.22	1.68	11.15	45.2	18.2	49	3.46	267
558721		5.46	0.007	1.32	1.61	9.4	50	0.93	0.11	2.39	3.22	29.6	10.6	38	1.47	352
558722		4.53	0.006	0.93	4.54	22.2	240	3.89	0.21	1.29	0.12	71.0	18.8	55	3.05	274
558723		5.21	0.026	2.81	2.71	6.7	150	2.58	0.35	2.05	16.30	44.4	17.0	47	3.48	450
558724		2.56	0.038	2.73	2.32	2.2	160	2.17	0.37	3.30	19.35	39.2	13.7	51	3.40	432



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Page: 2 – B  
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**CERTIFICAT D'ANALYSE VO18247457**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
558711		13.00	7.80	0.09	1.0	0.694	0.083	1.36	18.4	22.5	4.05	1460	27.8	0.16	5.4	107.5
558712		15.00	13.90	0.17	1.7	0.961	0.057	2.50	27.2	24.6	0.41	114	70.4	0.10	5.2	163.0
558713		16.50	6.98	0.14	1.3	1.315	0.112	1.07	27.0	16.1	0.91	1000	190.0	0.03	2.6	445
558714		14.30	9.59	0.13	1.9	0.733	0.085	1.46	29.8	18.7	1.15	985	115.5	0.15	4.5	297
558715		12.30	17.85	0.12	2.9	0.449	0.074	3.14	36.8	32.3	1.01	674	23.4	0.27	7.6	156.5
558716		0.18	0.28	0.06	<0.1	<0.005	0.005	0.02	1.2	1.4	1.41	86	0.30	0.03	0.2	1.1
558717		13.85	13.45	0.16	1.8	0.710	0.059	2.43	32.0	34.4	1.58	1120	46.0	0.16	5.9	159.0
558718		16.45	10.75	0.15	2.1	0.232	0.068	1.33	29.0	30.3	1.53	1980	53.5	0.09	3.0	182.5
558719		15.65	11.40	0.14	2.3	0.195	0.068	1.63	29.4	36.0	1.47	1770	32.3	0.07	2.5	191.0
558720		15.75	8.49	0.17	1.6	0.345	0.073	1.48	27.9	24.5	1.27	2810	117.0	0.04	3.3	243
558721		18.15	5.96	0.13	1.3	0.121	0.028	0.51	16.5	17.9	2.65	9470	35.1	0.02	3.7	253
558722		14.40	12.70	0.15	2.6	0.041	0.024	1.72	33.5	41.0	1.28	1260	16.30	0.07	2.1	189.0
558723		22.1	7.54	0.16	1.4	0.448	0.097	1.25	26.1	28.2	1.25	1610	125.0	0.04	2.7	374
558724		18.90	6.48	0.16	1.3	0.512	0.096	1.20	26.0	21.8	1.55	2460	156.0	0.03	2.9	322



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Page: 2 - C  
 Nombre total de pages: 2 (A - D)  
 plus les pages d'annexe  
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**CERTIFICAT D'ANALYSE VO18247457**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
558711		200	47.0	37.3	0.031	>10.0	13.60	5.5	8	0.6	120.0	0.34	0.29	2.67	0.097	3.33
558712		330	97.8	77.3	0.057	>10.0	27.4	7.3	9	1.2	22.9	0.34	0.48	4.57	0.105	6.25
558713		1470	86.8	39.7	0.111	>10.0	22.0	5.7	17	1.0	44.4	0.20	0.66	3.76	0.067	4.23
558714		1090	56.1	48.0	0.090	>10.0	11.15	7.2	14	1.1	59.6	0.30	0.50	4.10	0.108	3.68
558715		320	46.0	91.9	0.035	>10.0	10.20	12.2	9	1.6	55.6	0.44	0.48	5.06	0.202	6.36
558716		60	0.7	0.5	<0.002	0.03	0.16	0.2	1	<0.2	84.7	<0.05	<0.05	0.07	0.005	0.03
558717		380	66.5	76.5	0.046	>10.0	17.25	9.8	9	1.2	71.5	0.39	0.66	4.18	0.135	5.42
558718		1900	27.1	49.9	0.053	8.39	3.72	7.8	13	1.2	62.3	0.21	0.34	5.83	0.078	2.71
558719		1780	17.2	59.4	0.033	6.96	2.40	8.0	10	1.4	50.1	0.18	0.24	6.58	0.075	2.81
558720		1190	90.8	51.6	0.085	9.39	10.10	6.9	16	1.1	56.9	0.23	0.45	3.83	0.083	2.77
558721		1070	35.9	18.0	0.024	7.87	4.69	4.2	9	0.4	75.0	0.25	0.21	2.23	0.065	1.08
558722		2380	27.4	57.8	0.027	7.61	3.46	8.8	12	1.4	51.3	0.15	0.27	7.85	0.070	3.14
558723		1630	66.9	47.1	0.099	>10.0	12.10	6.2	23	1.2	60.4	0.18	0.53	4.14	0.065	2.59
558724		1900	67.5	44.8	0.129	9.96	12.50	6.0	20	1.0	88.7	0.20	0.54	3.18	0.077	2.53



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Page: 2 - D  
Nombre total de pages: 2 (A - D)  
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**CERTIFICAT D'ANALYSE VO18247457**

Description échantillon	Méthode élément unités LDI	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
558711	0.1	12.8	234	1.1	8.4	1410	39.9
558712		30.9	572	1.7	12.6	847	69.1
558713		71.2	1720	3.9	30.8	3680	47.6
558714		44.4	1030	2.6	21.9	2310	70.8
558715		16.0	286	1.6	11.0	1020	107.5
558716		0.3	3	<0.1	2.3	7	1.4
558717		23.9	470	1.8	13.2	1220	67.7
558718		25.1	627	1.7	18.0	1310	73.1
558719		16.3	458	1.2	14.6	1120	81.5
558720		46.7	1060	3.0	20.0	1720	58.3
558721		16.2	373	1.7	12.8	478	48.6
558722		15.6	392	0.8	16.6	70	88.0
558723		49.9	1160	2.4	23.2	2200	52.7
558724		59.3	1480	3.4	27.1	2670	47.3





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Page: **Annexe 1**  
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**CERTIFICAT D'ANALYSE VO18247457**

### COMMENTAIRE DE CERTIFICAT

#### COMMENTAIRES ANALYTIQUES

Applique à la Méthode: L'analyse des terres rares peut être partiellement soluble avec cette méthode.  
ME-MS61

#### ADRESSE DE LABORATOIRE

Applique à la Méthode: Traité à ALS Val d'Or, 1324 Rue Turcotte, Val d'Or, QC, Canada.  
CRU-31 CRU-QC LOG-21 PUL-31  
PUL-QC SPL-21 WEI-21

Applique à la Méthode: Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Hg-MS42 ME-MS61



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Page: 1  
Nombre total de pages: 2 (A)  
plus les pages d'annexe  
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**CERTIFICAT VO18269970**

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Bon de commande #: KANDH18-RUSH-063

Ce rapport s'applique aux 20 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 22-OCT-2018.

Les résultats sont transmis à:

GLENN ASCH  
SIMON HEBERT  
LIZ STOCK

KAREN CHIU  
SIMON HOULE  
CORPORATIF WEBTRIEVE

PAUL DOBAK  
LEE SCHOLL

**PRÉPARATION ÉCHANTILLONS**

CODE ALS	DESCRIPTION
FND-02a	Localiser échantillon au laboratoire subsidiaire

**PROCÉDURES ANALYTIQUES**

CODE ALS	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30 g FA fini ICP-AES	ICP-AES
Au-GRA21	Au 30 g fini FA-GRAV	WST-SIM

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

\*\*\*\*\* Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat \*\*\*\*\*

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Nombre total de pages: 2 (A)  
plus les pages d'annexe  
Finalisée date: 2-NOV-2018  
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**CERTIFICAT D'ANALYSE VO18269970**

Description échantillon	Méthode élément unités LDI	Au-ICP21	Au-GRA21
		Au ppm 0.001	Au ppm 0.05
556001		0.002	
556002		0.009	
556003		0.012	
556004		0.028	
556005		0.386	
556006		0.003	
556007		0.098	
556008			10.05
556009		5.85	
556010		3.81	
556011		0.041	
556012		0.004	
556013		0.004	
556014		0.002	
556015		0.004	
556016		0.001	
556017		0.001	
556018		0.001	
556019		0.674	
556020		0.003	



## **Appendix 5**

Drill Hole Cross Sections

2018

Carte(s) de dimensions hors standard placée(s) à la suite du présent document ou disponible en GeoTIFF sur la Carte interactive.

Non standard size map(s) positioned after this document or available in GeoTIFF on the Interactive map.

**Appendix 6**  
Drill Core Sample QAQC  
2018

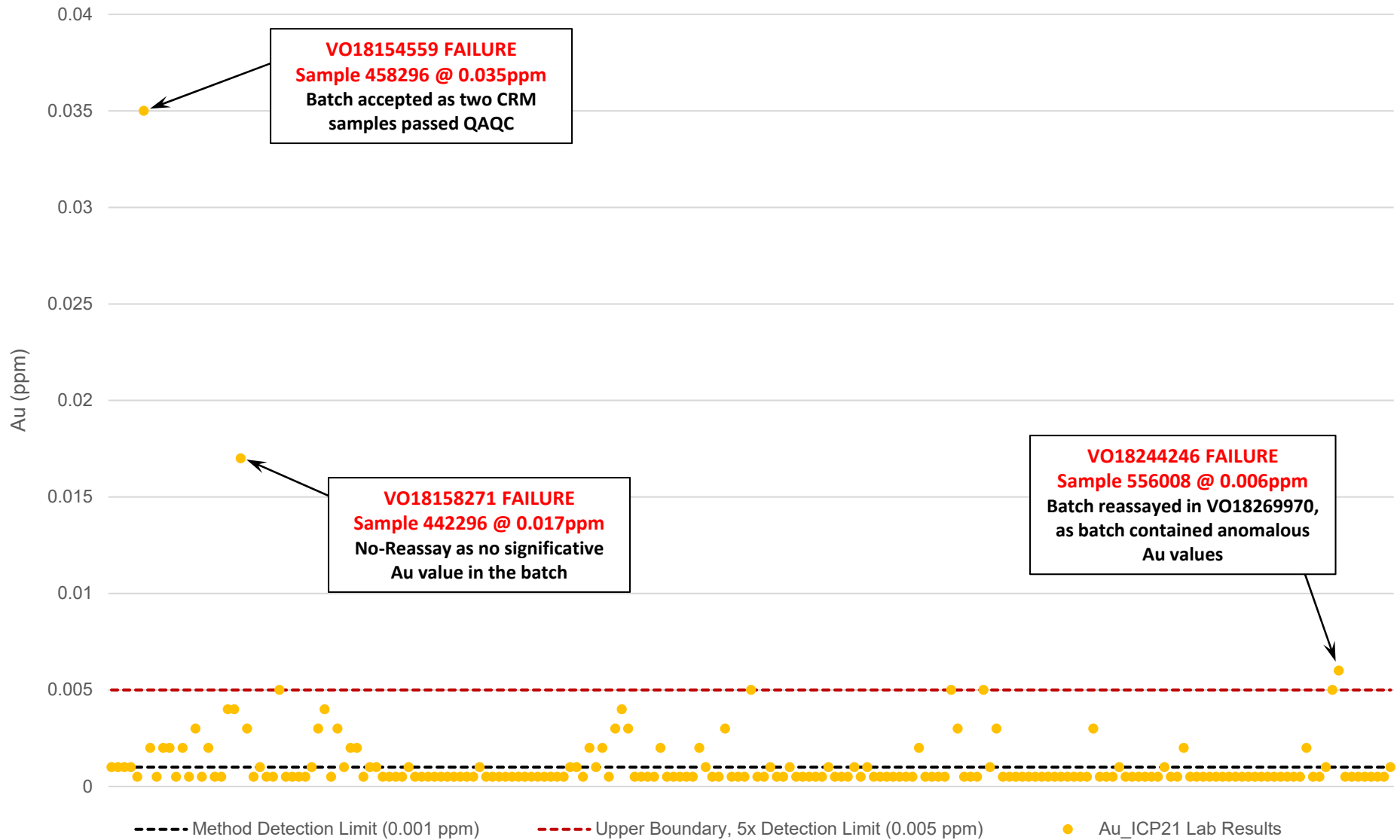


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*Simon Tremblay Hébert, Geo. (O.G.Q. #1777)*

# QAQC Summary – Blank Results

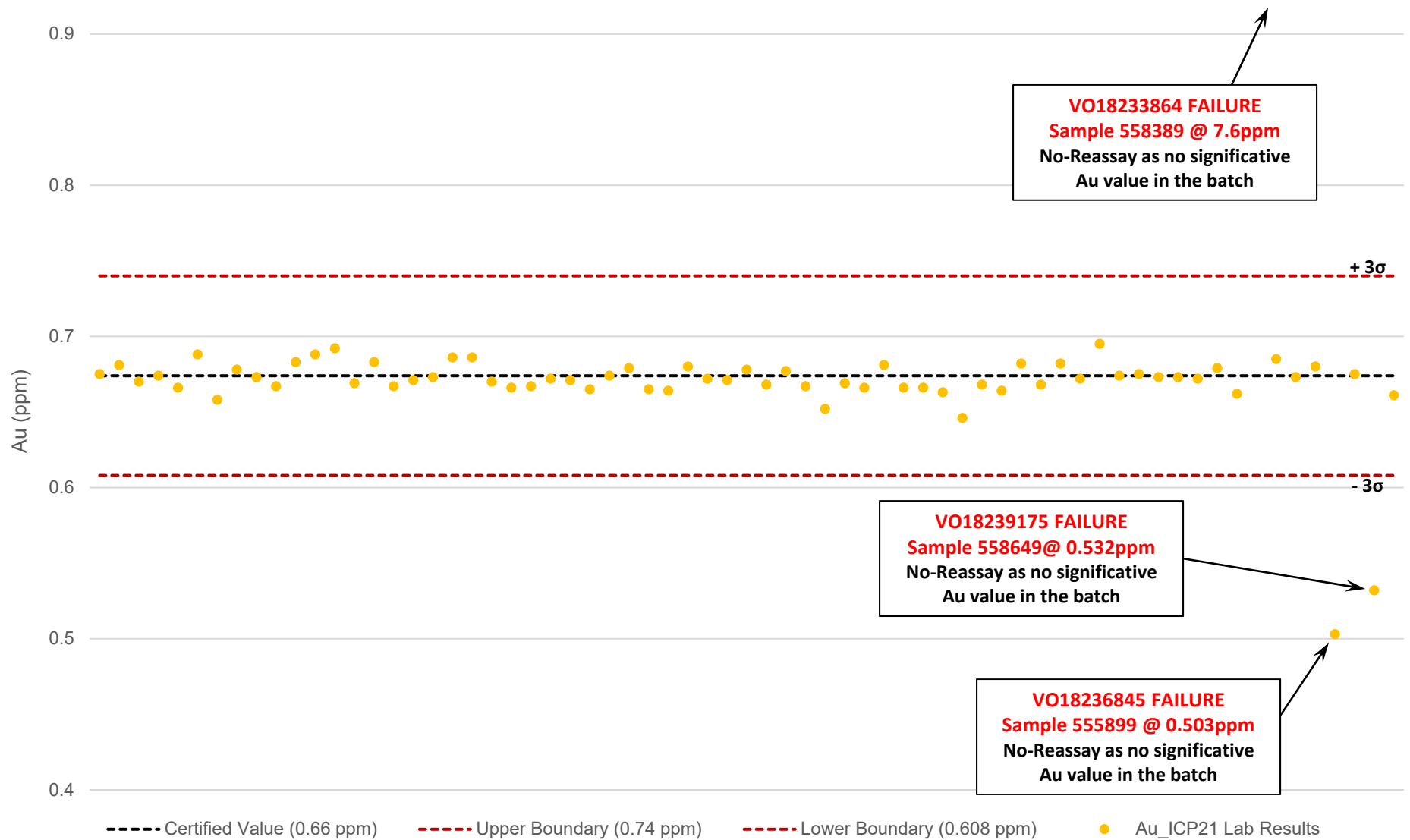
QAQC Chart for BLANK





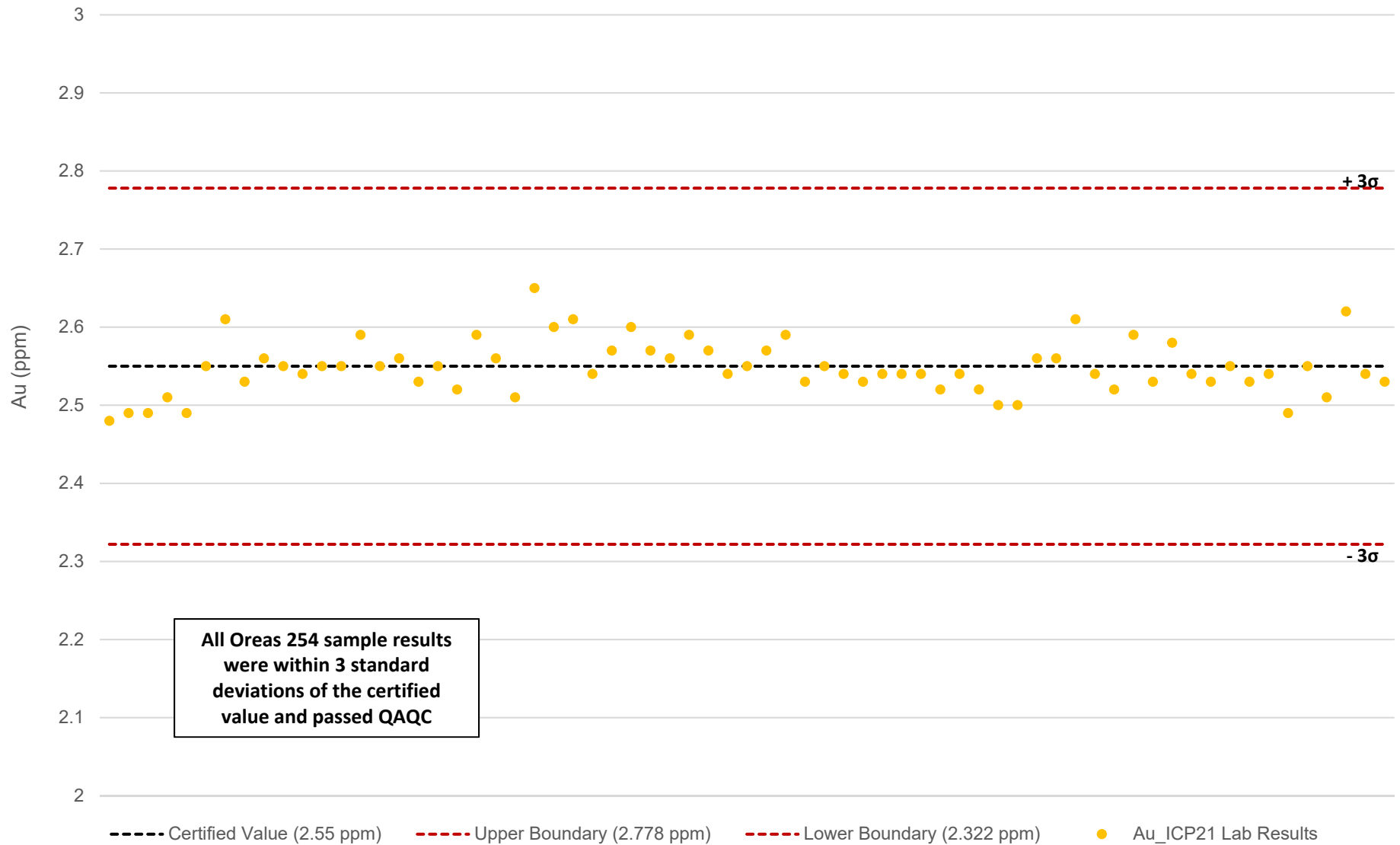
# QAQC Summary – Oreas 252 Results

QAQC Chart for Oreas 252



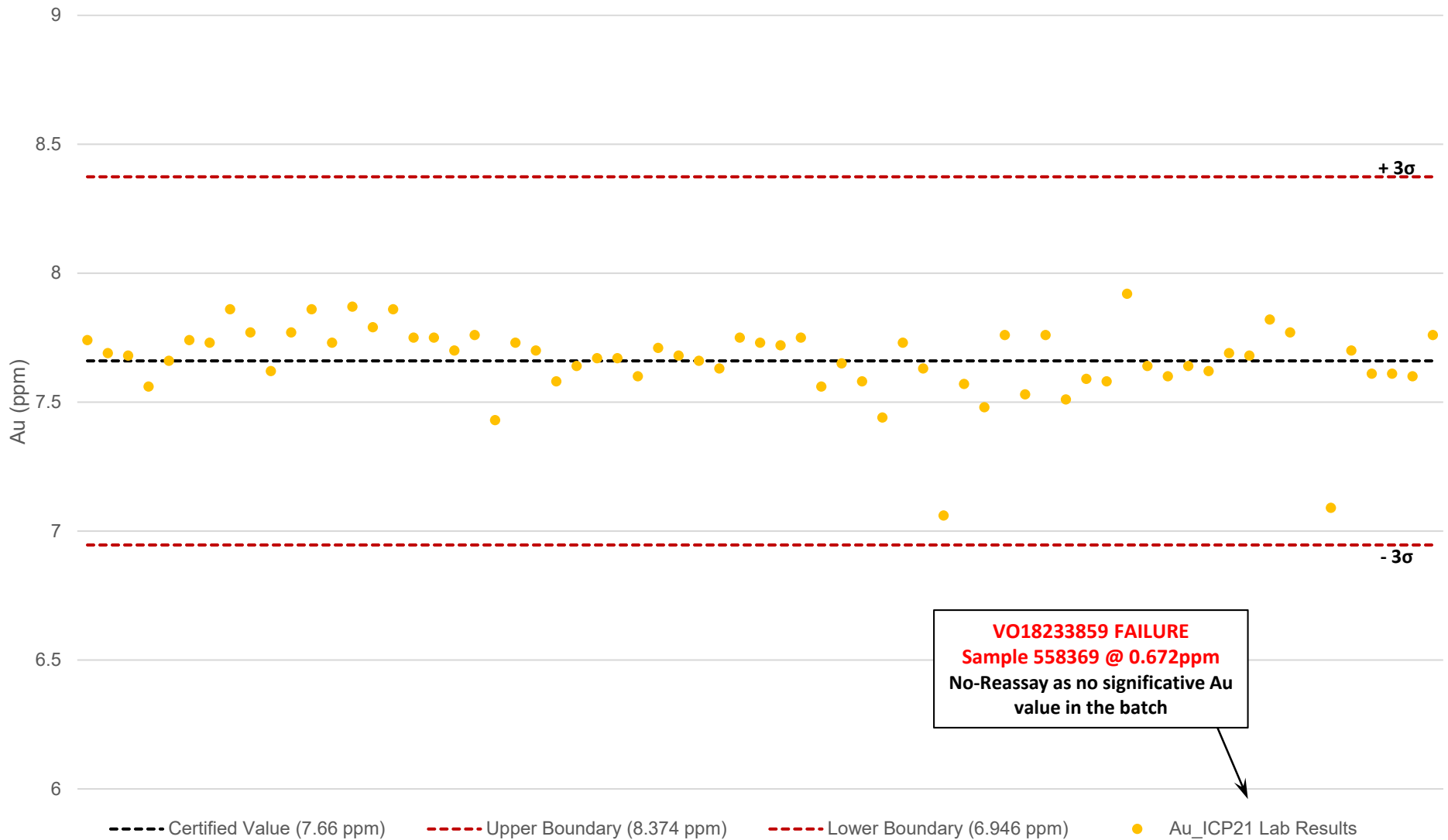
# QAQC Summary – Oreas 254 Results

QAQC Chart for Oreas 254



# QAQC Summary – Oreas 256 Results

## QAQC Chart for Oreas 256



# QAQC Summary – SN75 Results

## QAQC Chart for SN75



# QAQC Summary – SH69 Results

QAQC Chart for SH69

