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INDEPENDANT TECHNICAL REPORT, HORDEN LAKE PROPERTY

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INDEPENDENT TECHNICAL REPORT

HORDEN LAKE PROPERTY

QUEBEC, CANADA



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VENTURES INC.

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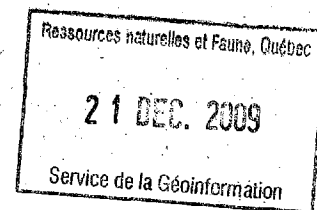
April 15, 2009

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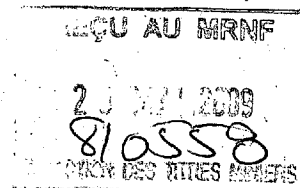




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1.0 EXECUTIVE SUMMARY

Caracle Creek International Consulting Inc. ("CCIC") has been retained by Southampton Ventures Inc. ("Southampton") to plan and execute a diamond drilling program on Southampton's Horden Lake Property, Quebec, and to conduct an Independent Mineral Resource Estimate of Cu and Ni resources ("the Resource Estimate" or "Estimate") on the Property. In addition, Southampton commissioned CCIC to prepare an Independent Technical Report (the "Report"), compliant with National Instrument 43-101 ("NI43-101"), companion policy NI43-101CP and Form 43-101F1. In addition, Southampton has requested CCIC provide recommendations and a proposed exploration program and budget for further exploration on the Property. The Property was visited by Luc Harnois, Ph.D. and P.Geol., from 31st January to 28th February, 2008 and from 11th March to 22th March, 2008. Dr. Harnois is a member in good standing of l'Ordre des Géologues du Québec ("OGQ") (member #478) and Association of Professional Geoscientists of Ontario ("APGO") (member #1355). The property visit included drill core logging, examination of mineralization, drill core sampling and a check of drill collar location, azimuth and dip.

The Horden Lake Property is located ~140 km north of Matagami in Township 1408, James Bay District, Quebec. Southampton Ventures holds a property position totaling 5258.13 ha of claims centred on the Horden Lake Deposit. The claims are divided into three separate groups which are not contiguous: Northeastern Claims, Horden Lake Deposit Claims and Southwestern Claims. Claims within each group are contiguous, except for one claim that is not contiguous within the Horden Lake Deposit Claim group. The Northeastern Claims consist of 88 claims covering 4673.81 ha, the Horden Lake Deposit Claims consist of 9 claims covering 122.09 ha and the Southwestern Claims consist of 9 claims covering 462.23 ha.

The original six historic claims within the Horden Lake Deposit Claim group were originally owned by Nemiscau Mines Ltd. On June 27, 2007, Southampton completed acquisition of 95% of the issued and outstanding shares of Nemiscau Mines Ltd. as well as debt due and owing by Nemiscau to 2090720 Ontario Inc. in the amount of \$357,216.90 CDN. Southampton issued 6.0 million common shares in exchange for Nemiscau shares of which Southampton issued 3.0 million common shares to 2090720 and 3.0 million common shares to Bedrock Capital Corp. The Horden Lake Deposit is subject to a 1% net smelter royalty in favour of 2090720. Southampton also issued 150,000 common shares to Pacific Securities International Inc. in payment of a finder's fee in connection with the acquisition. The remaining 5% of Nemiscau is owned by Timmons trust of Chicago, Illinois.

The Horden Lake Property is located in the Nemiscau Subprovince of the Superior Province of the Canadian Shield. In the Horden Lake area, the dominant rock types are metavolcanic and metasedimentary rocks. Meta-gabbro occurs as a long and narrow, concordant body and has inclusions



of metasedimentary rocks. Granites intruded the metasedimentary and metavolcanic package. Shearing is abundant in the area. Lyons and Jobin-Bevans (2002) concluded from their geological survey in the Horden Lake area that the meta-gabbro is a 40 m long and 1-1.5 m wide mafic/ultramafic sill.

The mineralization encountered during the 2008 drilling program occurred along the contact of the gabbroic complex and metasedimentary rocks. Two mineralization styles were observed. The first style is prominent in the medium- to coarse-grained gabbro and near the contact with the metasedimentary rocks. It consists of disseminated to blebby pyrrhotite, pyrite and chalcopyrite (locally up to 25% sulphides). The second style of mineralization ranges from large sulfide blebs to massive sulfide consisting dominantly of pyrrhotite, pyrite and chalcopyrite in shear zones along the contact between gabbro and metasedimentary rocks. Locally, sphalerite and galena occur in altered gabbro. The footwall of the mineralization consists of metasedimentary rocks, dominantly quartzites, meta-greywacke, cordierite-anthophyllite-cummingtonite-bearing rocks of sedimentary origin and quartz-sericite schists.

Phase 1 exploration program was completed on the Horden Lake property. It included a drilling program on the Horden Lake Deposit Claims and an airborne geophysical survey on the Horden Lake, the northeastern and southwestern claims. During winter 2008, a total of 18,136 m of core was drilled in 73 drill holes on the Horden Lake Claims. Drilling started on January 26, 2008 and was completed on March 19, 2008. The drill holes were systematically spaced 50 m apart along gridlines perpendicular to the conductive zone recognized by INCO. Some of the highlights from the 2008 drilling program include 12.00 m of 2.28 %Cu and 0.34 %Ni in HN-08-29 and 11.25 m of 2.01 %Cu and 0.11 %Ni from HN-08-30.

A Fugro HeliGEOTEM[®] II survey was commissioned by Southampton in February 2008 to fly three profile lines over the Horden Lake deposit and 131 and 35 lines over the exploration areas to the NE and SW blocks respectively. A total of 592 line-km were collected at a line spacing of 100 m. A total of eight targets were identified based on magnetic and conductive responses: one target for Horden Lake Deposit, six targets for the Northeast Claims and one target for the Southwest claims.

The Mineral Resource Estimate was calculated using a database of 95 drill holes previously completed by INCO in 1969 and 73 drill holes completed by Southampton in 2008. The Estimate was completed using the Ordinary Kriging method and is stated below at 0.5% and 1.0% Cu block cut-offs.

0.5 % Cu Block Cut off

Category	Tonnes	Cu (%)	Ni (%)
Indicated	8,759,200	0.88	0.21
Inferred	7,791,195	0.87	0.25



1.0 % Cu Block Cut off

Category	Tonnes	Cu (%)	Ni (%)
Indicated	2,416,000	1.37	0.25
Inferred	1,997,600	1.35	0.34

0.5 % Cu Block Cut off

Category	Tonnes	g Pd/t	g Au/t	g Ag/t
Indicated	8,759,200	0.15	0.15	10.44

1.0 % Cu Block Cut off

Category	Tonnes	g Pd/t	g Au/t	g Ag/t
Indicated	2,416,000	0.16	0.18	13.50

Blocks lying within 50 metres of drill intercepts completed in 2008 (along with other criteria) were assigned the Indicated category. Blocks lying greater than 50 metres from a 2008 drill intercept (including blocks estimated primarily with INCO intercepts) were assigned the Inferred category. Maximum search distances were derived from variogram studies.

The mineral resources in this report conform to the Canadian Institute of Mining, Metallurgy and Petroleum (CIM) Standards on Mineral resources and Reserves, Definitions and Guidelines prepared by the CIM Standing Committee on Reserve Definitions and adopted by the CIM Council December 11, 2005.

Where possible it is recommended that the geophysical anomalies be ground checked. Drill logs should be carefully examined in the area of the lake with respect to the mafic-ultramafic rocks that host the Horden Lake mineralization. To further realize the potential of the electromagnetic dataset discussed in this report, it is recommended to collect physical rock properties on the drill core from the Horden Lake deposit and surrounding area. This data can be incorporated into an inversion of the geophysics (both magnetic and electromagnetics) to produce a better constrained 3D model of the deposit and aid in the identification of additional new targets. Utilizing this information, a common earth model can then be developed.

It is recommended that the 5000 m drilling program be conducted on geophysical targets to search for additional mineralization on the Horden Lake Deposit, Northeast and Southwest claim groups. The cost for the proposed geophysics work is \$41,302.80 and the cost for 5000 m of diamond drilling is



\$1,378,212.00. The estimated total cost of geophysics and diamond drilling for the next phase of the Horden Lake project is \$1,419,514.80.

2.0 INTRODUCTION AND TERMS OF REFERENCE

2.1 Introduction

Caracle Creek International Consulting Inc. ("CCIC") has been retained by Southampton Ventures Inc. ("Southampton") to plan and execute a diamond drilling program on Southampton's Horden Lake Property, Quebec, and to conduct an Independent Mineral Resource Estimate of Cu and Ni resources ("the Resource Estimate" or "Estimate") on the Property. In addition, Southampton commissioned CCIC to produce a supporting technical document ("the Report") in accordance with the guidelines set out in NI43-101, companion policy NI43-101CP and Form 43-101F1. The Property was visited by Luc Harnois, Ph.D. and P.Geo., from 31st January to 28th February, 2008 and from 11th March to 22th March, 2008. Dr. Harnois is a member in good standing of l'Ordre des Géologues du Québec ("OGQ") (member #478) and Association of Professional Geoscientists of Ontario ("APGO") (member #1355). The property visit included drill core logging, examination of mineralization, drill core sampling and a check of drill collar location, azimuth and dip.

The Horden Lake Property is located ~140 km north of Matagami, Quebec, at the approximate UTM coordinates 303 390 mE, 5 646 707 mN (77°48'4" longitude, 50°56'12" latitude), referencing map datum NAD83, Zone 18 North. The Property is located on NTS map sheets 32N04 and 32K13 and centered on the Horden Lake Cu-Ni-PGE Deposit.

The original six historic claims within the Horden Lake Deposit were originally owned by Nemiscau Mines Ltd. On June 27, 2007, Southampton completed acquisition of 95% of the issued and outstanding shares of Nemiscau Mines Ltd. The remaining 5% of Nemiscau is owned by Timmons trust of Chicago, Illinois.

The Report is based on information supplied by Southampton, review of public domain data, geological and exploration data for the Property, incorporation of relevant mining and geological literature. The drilling program was executed by CCIC personnel.

2.2 Terms of Reference and Units

Definitions are from Long (2008) and Smee (2008).

Accuracy: the closeness of measurements to a "true" value.



Aqua Regia: Mixture of Hydrochloric Acid (HCl), Nitric Acid (HNO₃) and de-mineralised water (2:2:2). It is a strong acid digestion capable of decomposing metal salts, carbonates, sulphides, most sulphates and *some* oxides and silicates. Aqua Regia will digest precious metals including Au, Ag, Pt and Pd (Acme Analytical Laboratories Ltd: www.acmelab.com). This is also known as a partial digestion, as not all of the rock is dissolved.

Bias: grouping of data above or below an accepted mean. Bias may be caused by systematic sampling or analytical error.

Blank: a sample of uncrushed rock or drill core that is known to contain very low or non-detectable concentration of the element being sought. A blank is used to monitor contamination of samples during preparation and analysis.

Certified Reference Materials (CRM's): standard pulp (powdered) samples that have been subjected to rigorous international testing and have a certificate of analysis with a certified "accepted mean" and standard deviation. Ideally, a cut-off grade, mean grade and high grade CRM is analyzed with samples. CRM's are used to monitor accuracy and precision of analyses.

Classification of Standards: An analysis of the standard is classified as "OK" if it plots between +2 standard deviation (SD) and -2SD of the certified mean (Figure 3-1). An analysis is classified as a "warning" if it plots between +2SD and +3SD or between -2SD and -3SD. An analysis is classified as "failure" if it plots above +3SD or below -3SD.

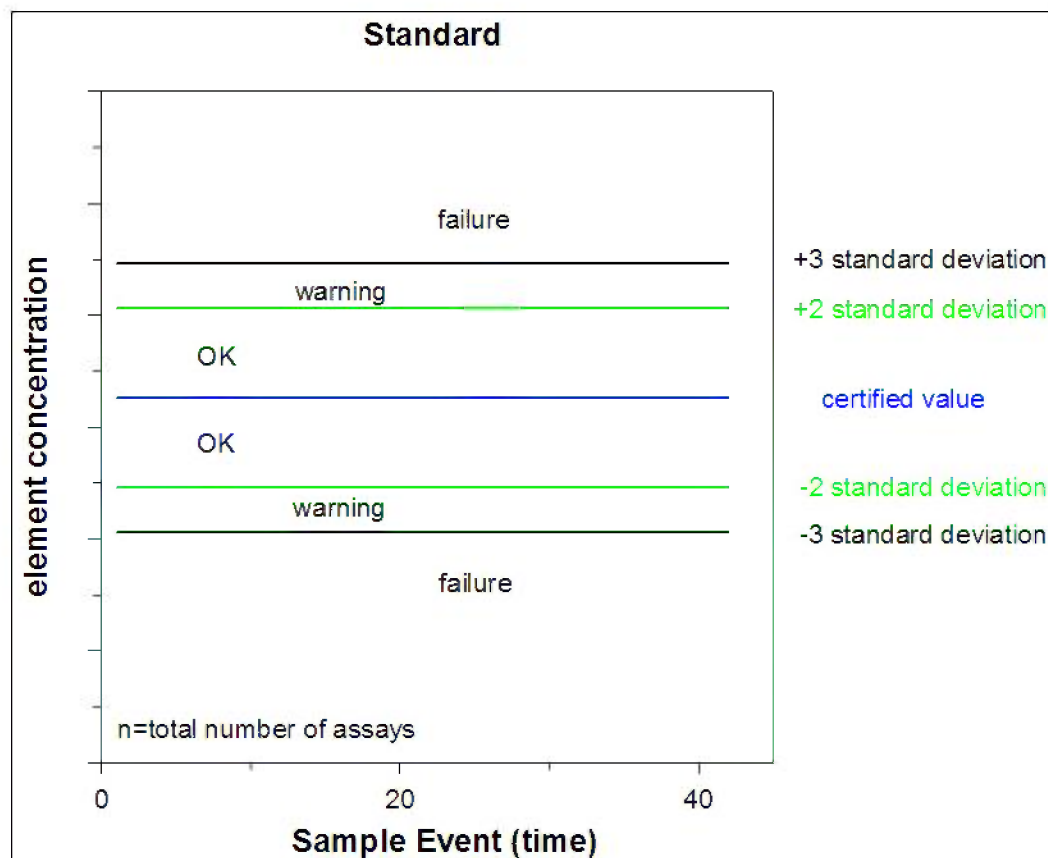


Figure 2-1. Classification of Standards

Contamination: introduction of any substance to a geological sample that is not in the original *in situ* location of the sample.

Duplicates: A split of the original sample analyzed by the same lab under the same analytical conditions as the original sample. There are three types of duplicates: field duplicates (split of the drill core), reject duplicate (split of coarse material) and pulp duplicate (split of powdered material). Field duplicates monitor errors in sampling, preparation and analysis of samples. Reject duplicates monitor errors in preparation and analysis of samples. Pulp duplicates monitor errors in analysis of samples.

Fire Assaying: This analytical method is a highly precise and accurate method for the total determination of Au and other precious metals in samples. Typically used on ore-grade samples. Samples are mixed with fluxes including lead-oxide, fused at 1050°C, cupeled to recover a dore bead, nitric acid parted to separate the precious metal then analyzed by either gravimetric, AA or ICP finish (Acme Analytical Laboratories Ltd: www.acmelab.com).



ICP or ICP-ES: Inductively Coupled Plasma - Atomic Emission Spectrometer: An instrument capable of determining the concentrations of 40 to 70+ elements simultaneously by measuring the intensity of light given off by samples aspirated into argon gas plasma heated to > 10,000°K. Capable of very low detection limits (ppm to ppb) with wide linear ranges (5 orders of magnitude) (Acme Analytical Laboratories Ltd: www.acmelab.com).

ICP-MS: Inductively Coupled Plasma - Mass Spectrometer: An instrument capable of determining the concentrations of 70+ elements simultaneously by measuring the mass of ions generated by an argon gas plasma heated to 10,000°K and passing through a magnetic quadrupole to the detector. Capable of ultra low detection limits (ppb to ppt) with very wide linear ranges (up to 7 orders of magnitude) (Acme Analytical Laboratories Ltd: www.acmelab.com).

QA/QC: Quality Assurance/ Quality Control

Quality Assurance: information collected to demonstrate and quantify the reliability of assay data. Quality Assurance provides a measurement of the uncertainty in the underlying data.

Quality Control: procedures used to maintain a desired level of quality in the assay database. Quality Control leads to corrections of errors or changes in procedures that improve overall data quality.

Precision: the ability to consistently reproduce a measurement. Precise data tightly groups around an average value.

Total or 4-Acid Digestion: Mixture of Hydrofluoric Acid (HF), Perchloric Acid (HClO₄), Nitric Acid (HNO₃) and Hydrochloric Acid (HCl). It is a very strong acid digestion capable of decomposing metal salts, carbonates, sulphides, silicates and almost all sulphates and oxides. The digestion is taken to dryness which can result in the loss of some elements (Au, As, Cr, Sb) by volatilization. The digestion is considered partial for massive sulphide samples (Acme Analytical Laboratories Ltd: www.acmelab.com).

The Metric System is the primary system of measure and length used in this Report and is generally expressed in kilometres, metres and centimetres; volume is expressed as cubic metres, mass expressed as metric tonnes, area as hectares, and gold grades as grams per tonne. Conversions from the Metric System to the Imperial System are provided below and quoted where practical. Many of the geologic publications and more recent documents now use the Metric System but older documents almost exclusively refer to the Imperial System. Metals and minerals acronyms in this report conform to mineral



industry accepted usage and the reader is directed to www.maden.hacettepe.edu.tr/dmmrt/index.html for a glossary.

Conversion factors utilized in this report include:

- 1 troy ounce/ton = 34.285714 grams/tonne
- 1 gram/tonne = 0.029167 troy ounces/ton
- 1 troy ounce = 31.103477 grams
- 1 gram = 0.032151 troy ounces
- 1 gram/tonne = 1 part per million (ppm)

The term gram/tonne or g/t is expressed as “gram per tonne” where 1 gram/tonne = 1 ppm (part per million) = 1000 ppb (part per billion). The mineral industry accepted terms Au g/t and g/t Au are substituted for “grams gold per metric tonne” or “g Au/t”. Other abbreviations include ppb = parts per billion; ppm = parts per million; oz/t = troy ounce per short ton; Moz = million ounces; Mt = million tonne; t = tonne (=1000 kilograms); SG = specific gravity; lb/t = pound/ton; and, st = short ton (2000 pounds).

Dollars are expressed in Canadian currency (CAD\$) unless otherwise noted. Gold prices are stated in US\$ per troy ounce (US\$/oz). Where quoted, Universal Transverse Mercator (UTM) coordinates are provided in the datum of NAD83, Zone 18 North.

2.3 CCIC Qualifications

Caracle Creek International Consulting Inc. (“CCIC”) is an international consulting company based in Sudbury, Ontario, Canada. CCIC provides a wide range of geological and engineering services to the mineral exploration and development industry. With offices in Canada (Sudbury and Toronto, Ontario and Abbotsford, British Columbia) and South Africa (Johannesburg), CCIC is well positioned to service its international client base.

CCIC's mandate is to provide professional geological and engineering services to the mineral exploration and development industry at competitive rates and without compromise. CCIC's group of professionals have international experience in a variety of disciplines and offer services that include:

- Exploration Project Generation, Design and Management
- Data Compilation and Exploration Target Generation
- Property Evaluation and Due Diligence Studies
- Independent Technical Reports (NI43-101)/Competent Persons' Reports
- Mineral Resource/Reserve Modelling, Estimation and Audit, and Conditional Simulation
- 3D Geological Modelling, Visualization and Database Management



In addition, CCIC has access to the most current software for data management, interpretation and viewing, manipulation and target generation.

The primary Qualified Person and author for this Report is Mr. Iain Kelso, H.B.Sc., P.Geo. Mr. Kelso, Associate Consulting Geologist for CCIC Canada and a geologist in good standing with the Association of Professional Geoscientists of Ontario (APGO #1345). Mr. Kelso has several years experience in geological modelling and resource calculations, and in the management of quality control-quality assurance programs.

Another Qualified Person and co-author of this Report is Dr. Elisabeth Ronacher, Ph.D., P.Geo. Dr. Ronacher is a Project Manager for CCIC and a geologist in good standing with the Association of Professional Geoscientists of Ontario (APGO #1476). She has ten years of experience in the mineral exploration industry and in academia and has authored/co-authored Independent Technical Reports (NI43-101).

Another Qualified Person and co-author for this Report is Dr. Julie Selway, Ph.D., P.Geo. Dr. Selway is a Senior Project Geologist for CCIC and a geologist in good standing of the Association of Professional Geoscientists of Ontario (APGO #0738). Dr. Selway has worked as a geologist for fifteen years with academia and industry on a variety of exploration properties such as gold, Ni-Cu-PGE and rare-element pegmatites and has authored/co-authored Independent Technical Reports (NI43-101).

Another Qualified Person and co-author of this Report is Jenna McKenzie, H.B.Sc., P.Geo. Ms. McKenzie is a Project Geophysicist for CCIC Canada and is a geologist in good standing with the Association of Professional Geoscientists of Ontario (APGO #1653). Ms. McKenzie has worked as a geophysicist for seven years in industry and has worked on a variety of properties including diamond, oil-industry seismic processing, gold, potash, and Ni-Cu-PGE.

Another Qualified Person and co-author of this Report is Dr. Luc Harnois, Ph.D., P.Geo. Dr. Harnois is a Project Manager and a geologist in good standing with Ordre des Géologues du Québec (OGQ; member #478). Other memberships include Association of Professional Geoscientists of Ontario (APGO; member #1355) and Association of Professional Engineers and Geoscientists of the Province of Manitoba (APEGM; member # 31170G). Dr. Harnois have been employed in the mineral exploration field worldwide for an aggregate total of 5 years, in positions ranging from junior geologist to project manager.

Certificates of Qualifications are provided in Appendix I.



3.0 RELIANCE ON OTHER EXPERTS

CCIC has completed this Report in accordance with the methodology and format outlined in National Instrument 43-101, companion policy NI43-101CP and Form 43-101F1. This Report was prepared by competent and professional individuals from CCIC on behalf of Southampton and is directed solely for the development and presentation of data with recommendations to allow Southampton and current or potential partners to reach informed decisions.

The information, conclusions and recommendations contained herein are based on a review of digital and hard copy data and information supplied to CCIC by Southampton, as well as various published geological reports, and discussions with representatives from Southampton who are familiar with the Property and the area in general. CCIC has assumed that the reports and other data listed in the "References" section of this report are substantially accurate and complete.

CCIC has relied on information provided by Southampton regarding land tenure, underlying agreements and technical information not in the public domain, and all of these sources appear to be of sound quality. CCIC is unaware of any technical data other than that presented by Southampton or its agents.

Some relevant information on the Property presented in this Report is based on data derived from reports written by geologists and/or engineers, whose professional status may or may not be known in relation to the NI43-101 definition of a Qualified Person. CCIC has made every attempt to accurately convey the content of those files, but cannot guarantee either the accuracy or validity of the work contained within those files. However, CCIC believes that these reports were written with the objective of presenting the results of the work performed without any promotional or misleading intent. In this sense, the information presented should be considered reliable, unless otherwise stated, and may be used without any prejudice by Southampton.

4.0 PROPERTY DESCRIPTION AND LOCATION

4.1 Location

The Horden Lake Property is located approximately 140 km north of Matagami in Township 1408, James Bay District, Quebec. It is located approximately 10 km west of kilometre 200 on Route 109, an all-weather road connecting Matagami to the Hydro-Québec James Bay power complex at Radisson, Quebec. The approximate center of the property is located at UTM 303 390 mE, 5 646 707 mN (77°48'4" longitude, 50°56'12" latitude; Figure 4-1), referencing map datum NAD83, Zone 18 North. The Property is located on NTS map sheets 32N04 and 32K13.

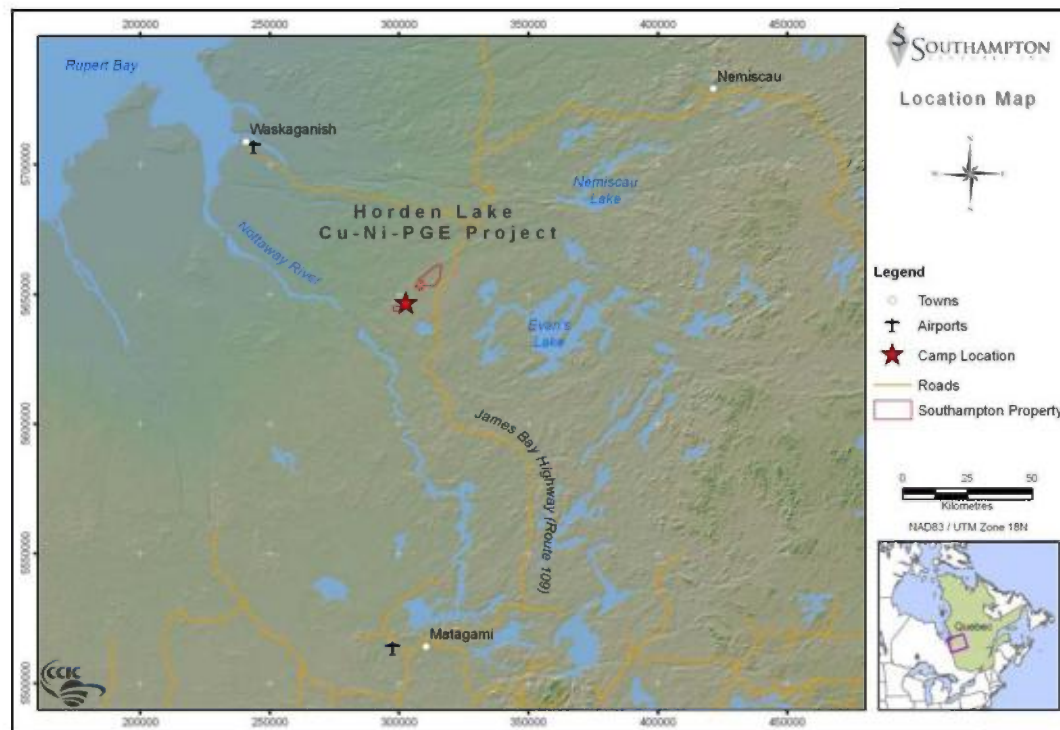


Figure 4-1. Location of the Horden Lake Property

4.2 Southampton Tenure

Southampton Ventures holds a property position totalling 5258.13 ha of claims centred on the Horden Lake Deposit (Figure 4-2; Table 4-1). The claims are divided into three separate groups which are not contiguous: Northeastern Claims, Horden Lake Deposit Claims and Southwestern Claims. Claims within each group are contiguous, except for one claim that is not contiguous within the Horden Lake Deposit Claim group. The Northeastern Claims consist of 88 claims covering 4673.81 ha (Figure 4-3), the Horden Lake Deposit Claims consist of 9 claims covering 122.09 ha (Figure 4-4) and the Southwestern Claims consist of 9 claims covering 462.23 ha (Figure 4-5). Phase I diamond drilling was completed on 4 of the claims within the Horden Lake Deposit Claims group.

The six original historic claims within the Horden Lake Deposit Claims group were issued August 5, 1963 to Nemiscau Mines Limited, a private Quebec company created to manage the joint venture between Inco and Noranda Mines Limited. Inco eventually earned 75% interest in the Horden Lake Deposit from Noranda. The joint venture completed 157 diamond drill holes totalling 32,229 m by the end of 1969. 2090720 Ontario Inc., a private Ontario company, acquired the shares of Nemiscau from CVRD Inco Limited and Xstrata Nickel (successor to Noranda Mines Limited) in February 2007. 2090720 then optioned the 6 claims to Bedrock Capital Corp., a private arm's length British Columbia company on May 10, 2007.



On June 27, 2007, Southampton completed acquisition of 95% of the issued and outstanding shares of Nemiscau Mines Ltd. as well as debt due and owing by Nemiscau to 2090720 in the amount of \$357,216.90 CDN (Appendix 2) (June 27, 2007 press release, <http://www.southamptonventures.com>). Southampton issued 6.0 million common shares in exchange for Nemiscau shares of which Southampton issued 3.0 million common shares to 2090720 Ontario Inc. and 3.0 million common shares to Bedrock Capital Corp. The Horden Lake Deposit is subject to a 1% net smelter royalty in favour of 2090720 Ontario Inc. Southampton has also issued 150,000 common shares to Pacific Securities International Inc. in payment of a finder's fee in connection with the acquisition. The remaining 5% of Nemiscau is owned by Timmons trust of Chicago, Illinois.

Southampton and Quetzal Energy Inc. ("Quetzal") announced that they have entered into a non-binding letter of intent dated as of January 7, 2009 providing for the acquisition by Southampton of Quetzal, a company existing under the laws of Ontario (January 12, 2009 press release, <http://www.southamptonventures.com>). Quetzal is engaged, through its wholly-owned subsidiary, in the acquisition and development of Guatemalan petroleum properties. All common shares and shares purchase warrants of Quetzal comprising the Units and all common shares of Quetzal underlying such share purchase warrants will be automatically exchanged for or converted into a corresponding security of Southampton.

Table 4-1. Southampton Ventures Claims.

Claim Number	Registration Date	Expiry Date	Area (ha)	Titleholders
Horden Lake Deposit Claim group				
CL 2008144	05/08/1963	08/07/2009	18.40	Nemiscau Mines Ltd.
CL 2008145	05/08/1963	08/07/2009	15.97	Nemiscau Mines Ltd.
CL 2008152	05/08/1963	09/07/2009	17.39	Nemiscau Mines Ltd.
CL 2008153	05/08/1963	09/07/2009	15.25	Nemiscau Mines Ltd.
CL 2008155	05/08/1963	09/07/2009	17.32	Nemiscau Mines Ltd.
CL 2008162	05/08/1963	10/07/2009	15.42	Nemiscau Mines Ltd.
CDC 2167549	25/07/2008	24/07/2010	4.00	Southampton Ventures Inc.
CDC 2167550	25/07/2008	24/07/2010	0.82	Southampton Ventures Inc.
CDC 2167551	25/07/2008	24/07/2010	17.52	Southampton Ventures Inc.
Southwestern Claim Group				
CDC 2142251	25/01/2008	24/01/2010	54.34	Southampton Ventures Inc.
CDC 2142252	25/01/2008	24/01/2010	54.34	Southampton Ventures Inc.
CDC 2142253	25/01/2008	24/01/2010	54.34	Southampton Ventures Inc.
CDC 2142254	25/01/2008	24/01/2010	54.33	Southampton Ventures Inc.
CDC 2142255	25/01/2008	24/01/2010	54.33	Southampton Ventures Inc.
CDC 2142256	25/01/2008	24/01/2010	54.33	Southampton Ventures Inc.
CDC 2167543	25/07/2008	24/07/2010	54.34	Southampton Ventures Inc.
CDC 2167544	25/07/2008	24/07/2010	54.33	Southampton Ventures Inc.



Claim Number	Registration Date	Expiry Date	Area (ha)	Titleholders
CDC 2167548	25/07/2008	24/07/2010	27.55	Southampton Ventures Inc.
Northeastern Claim group				
CDC 2141946	24/01/2008	23/01/2010	54.23	Southampton Ventures Inc.
CDC 2141947	24/01/2008	23/01/2010	54.23	Southampton Ventures Inc.
CDC 2141948	24/01/2008	23/01/2010	54.23	Southampton Ventures Inc.
CDC 2141949	24/01/2008	23/01/2010	54.23	Southampton Ventures Inc.
CDC 2141950	24/01/2008	23/01/2010	54.23	Southampton Ventures Inc.
CDC 2141951	24/01/2008	23/01/2010	54.23	Southampton Ventures Inc.
CDC 2141952	24/01/2008	23/01/2010	54.23	Southampton Ventures Inc.
CDC 2141953	24/01/2008	23/01/2010	54.22	Southampton Ventures Inc.
CDC 2141954	24/01/2008	23/01/2010	54.22	Southampton Ventures Inc.
CDC 2141955	24/01/2008	23/01/2010	54.22	Southampton Ventures Inc.
CDC 2141956	24/01/2008	23/01/2010	54.22	Southampton Ventures Inc.
CDC 2141957	24/01/2008	23/01/2010	54.22	Southampton Ventures Inc.
CDC 2141958	24/01/2008	23/01/2010	54.22	Southampton Ventures Inc.
CDC 2141959	24/01/2008	23/01/2010	54.22	Southampton Ventures Inc.
CDC 2141960	24/01/2008	23/01/2010	54.21	Southampton Ventures Inc.
CDC 2141961	24/01/2008	23/01/2010	54.21	Southampton Ventures Inc.
CDC 2141962	24/01/2008	23/01/2010	54.21	Southampton Ventures Inc.
CDC 2141963	24/01/2008	23/01/2010	54.21	Southampton Ventures Inc.
CDC 2141964	24/01/2008	23/01/2010	54.21	Southampton Ventures Inc.
CDC 2141965	24/01/2008	23/01/2010	54.21	Southampton Ventures Inc.
CDC 2141966	24/01/2008	23/01/2010	54.21	Southampton Ventures Inc.
CDC 2141967	24/01/2008	23/01/2010	54.21	Southampton Ventures Inc.
CDC 2141968	24/01/2008	23/01/2010	54.20	Southampton Ventures Inc.
CDC 2141969	24/01/2008	23/01/2010	54.20	Southampton Ventures Inc.
CDC 2141970	24/01/2008	23/01/2010	54.20	Southampton Ventures Inc.
CDC 2141971	24/01/2008	23/01/2010	54.20	Southampton Ventures Inc.
CDC 2141972	24/01/2008	23/01/2010	54.20	Southampton Ventures Inc.
CDC 2141973	24/01/2008	23/01/2010	54.20	Southampton Ventures Inc.
CDC 2141974	24/01/2008	23/01/2010	54.19	Southampton Ventures Inc.
CDC 2141975	24/01/2008	23/01/2010	54.19	Southampton Ventures Inc.
CDC 2141976	24/01/2008	23/01/2010	54.19	Southampton Ventures Inc.
CDC 2141977	24/01/2008	23/01/2010	54.19	Southampton Ventures Inc.
CDC 2141978	24/01/2008	23/01/2010	54.18	Southampton Ventures Inc.
CDC 2141979	24/01/2008	23/01/2010	54.18	Southampton Ventures Inc.
CDC 2141980	24/01/2008	23/01/2010	54.18	Southampton Ventures Inc.
CDC 2141981	24/01/2008	23/01/2010	54.18	Southampton Ventures Inc.
CDC 2141982	24/01/2008	23/01/2010	54.17	Southampton Ventures Inc.
CDC 2141983	24/01/2008	23/01/2010	54.17	Southampton Ventures Inc.
CDC 2141984	24/01/2008	23/01/2010	54.17	Southampton Ventures Inc.
CDC 2141985	24/01/2008	23/01/2010	54.16	Southampton Ventures Inc.
CDC 2142257	25/01/2008	24/01/2010	54.15	Southampton Ventures Inc.
CDC 2144923	13/03/2008	12/03/2010	54.23	Southampton Ventures Inc.
CDC 2144924	13/03/2008	12/03/2010	54.23	Southampton Ventures Inc.
CDC 2144925	13/03/2008	12/03/2010	54.23	Southampton Ventures Inc.



Claim Number	Registration Date	Expiry Date	Area (ha)	Titleholders
CDC 2144926	13/03/2008	12/03/2010	54.23	Southampton Ventures Inc.
CDC 2144927	13/03/2008	12/03/2010	54.23	Southampton Ventures Inc.
CDC 2144928	13/03/2008	12/03/2010	54.22	Southampton Ventures Inc.
CDC 2144929	13/03/2008	12/03/2010	54.22	Southampton Ventures Inc.
CDC 2144930	13/03/2008	12/03/2010	54.21	Southampton Ventures Inc.
CDC 2144931	13/03/2008	12/03/2010	54.21	Southampton Ventures Inc.
CDC 2144932	13/03/2008	12/03/2010	54.21	Southampton Ventures Inc.
CDC 2144933	13/03/2008	12/03/2010	54.21	Southampton Ventures Inc.
CDC 2144934	13/03/2008	12/03/2010	54.21	Southampton Ventures Inc.
CDC 2144935	13/03/2008	12/03/2010	54.20	Southampton Ventures Inc.
CDC 2144936	13/03/2008	12/03/2010	54.20	Southampton Ventures Inc.
CDC 2144937	13/03/2008	12/03/2010	54.20	Southampton Ventures Inc.
CDC 2144938	13/03/2008	12/03/2010	54.20	Southampton Ventures Inc.
CDC 2144939	13/03/2008	12/03/2010	54.20	Southampton Ventures Inc.
CDC 2144940	13/03/2008	12/03/2010	54.20	Southampton Ventures Inc.
CDC 2144941	13/03/2008	12/03/2010	54.19	Southampton Ventures Inc.
CDC 2144942	13/03/2008	12/03/2010	54.19	Southampton Ventures Inc.
CDC 2144943	13/03/2008	12/03/2010	54.19	Southampton Ventures Inc.
CDC 2144944	13/03/2008	12/03/2010	54.19	Southampton Ventures Inc.
CDC 2144945	13/03/2008	12/03/2010	54.19	Southampton Ventures Inc.
CDC 2144946	13/03/2008	12/03/2010	54.19	Southampton Ventures Inc.
CDC 2144947	13/03/2008	12/03/2010	54.18	Southampton Ventures Inc.
CDC 2144948	13/03/2008	12/03/2010	54.18	Southampton Ventures Inc.
CDC 2144949	13/03/2008	12/03/2010	54.18	Southampton Ventures Inc.
CDC 2144950	13/03/2008	12/03/2010	54.18	Southampton Ventures Inc.
CDC 2144951	13/03/2008	12/03/2010	54.18	Southampton Ventures Inc.
CDC 2144952	13/03/2008	12/03/2010	54.17	Southampton Ventures Inc.
CDC 2144953	13/03/2008	12/03/2010	54.17	Southampton Ventures Inc.
CDC 2144954	13/03/2008	12/03/2010	54.17	Southampton Ventures Inc.
CDC 2144955	13/03/2008	12/03/2010	54.17	Southampton Ventures Inc.
CDC 2144956	13/03/2008	12/03/2010	54.16	Southampton Ventures Inc.
CDC 2144957	13/03/2008	12/03/2010	54.16	Southampton Ventures Inc.
CDC 2144958	13/03/2008	12/03/2010	54.16	Southampton Ventures Inc.
CDC 2144959	13/03/2008	12/03/2010	54.16	Southampton Ventures Inc.
CDC 2144960	13/03/2008	12/03/2010	54.16	Southampton Ventures Inc.
CDC 2144961	13/03/2008	12/03/2010	54.15	Southampton Ventures Inc.
CDC 2144962	13/03/2008	12/03/2010	54.15	Southampton Ventures Inc.
CDC 2167545	25/07/2008	24/07/2010	54.25	Southampton Ventures Inc.
CDC 2167546	25/07/2008	24/07/2010	54.24	Southampton Ventures Inc.
CDC 2167547	25/07/2008	24/07/2010	54.24	Southampton Ventures Inc.
CDC 2167552	25/07/2008	24/07/2010	38.98	Southampton Ventures Inc.
CDC 2167553	25/07/2008	24/07/2010	17.01	Southampton Ventures Inc.
CDC 2167554	25/07/2008	24/07/2010	31.48	Southampton Ventures Inc.
CDC 2167555	25/07/2008	24/07/2010	33.62	Southampton Ventures Inc.
		Total	5258.13	

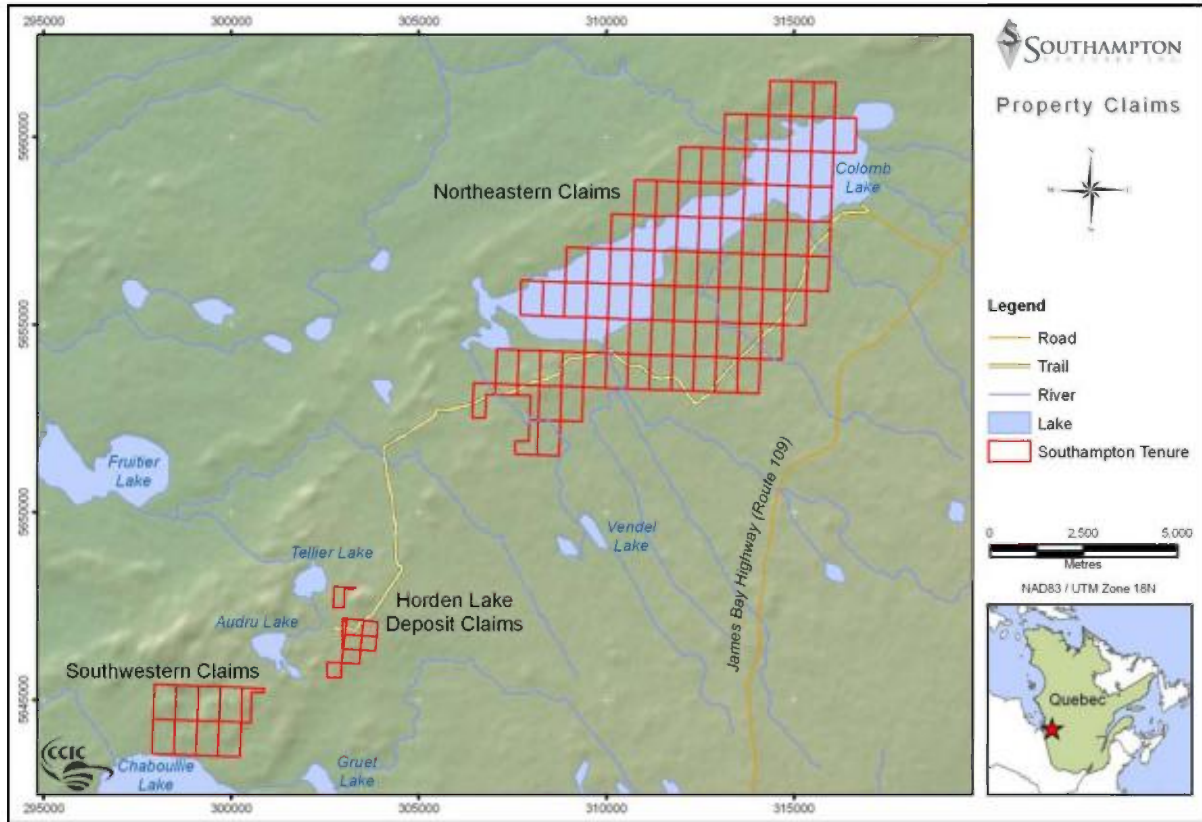


Figure 4-2. Map showing Southampton's three claim groups in the Horden Lake area Southwest claims, northeast claims and Horden Lake Deposit claims.

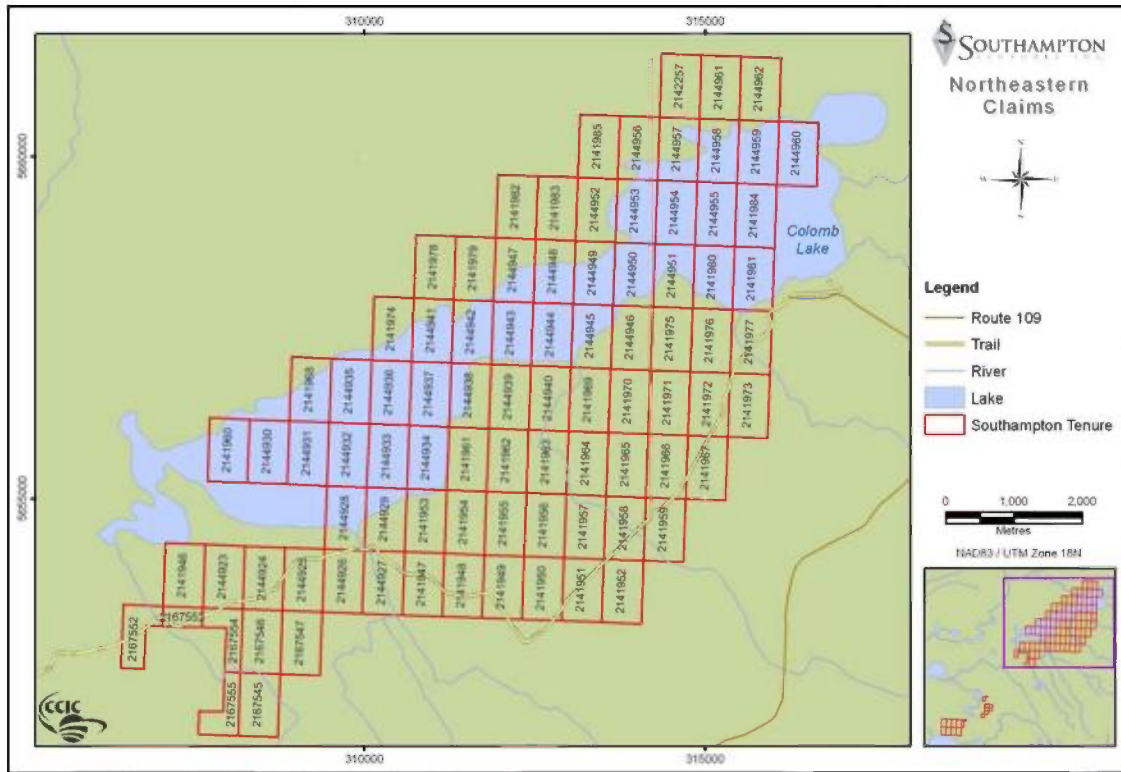


Figure 4-3. Location of the Northeastern Claims group.

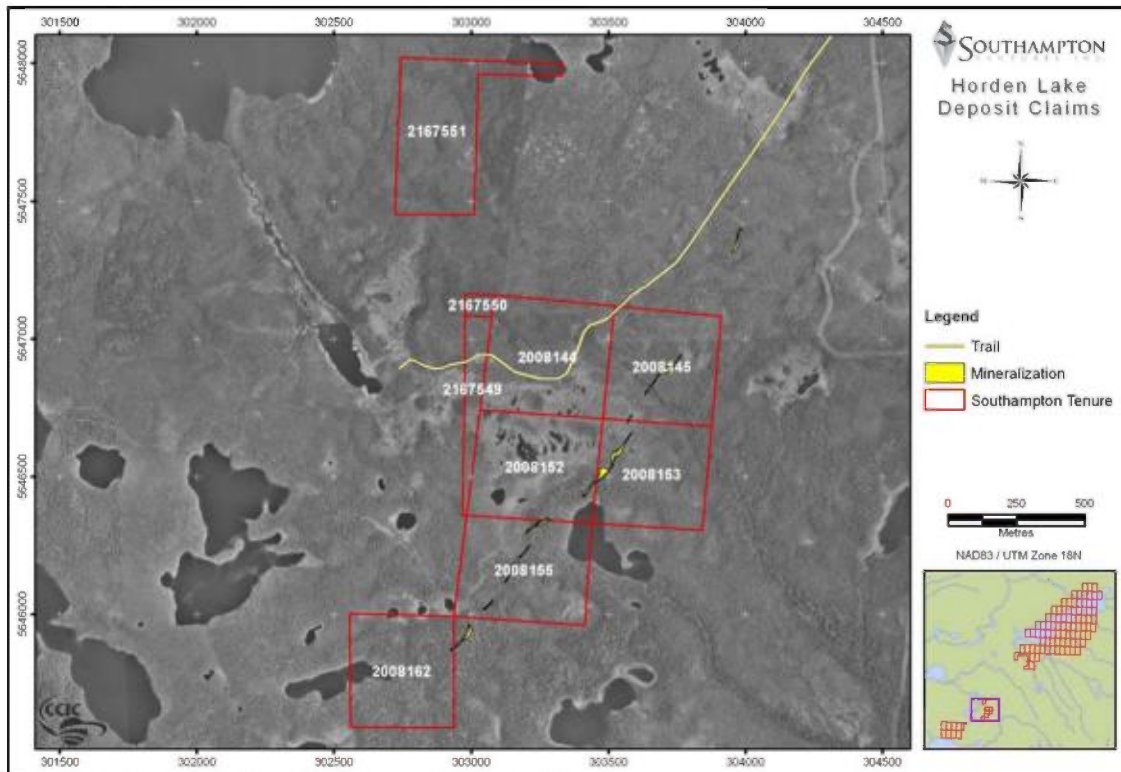


Figure 4-4. Location of the Horden Lake Deposit claims group
 The location of the mineralization is also shown. The background is an airphoto.

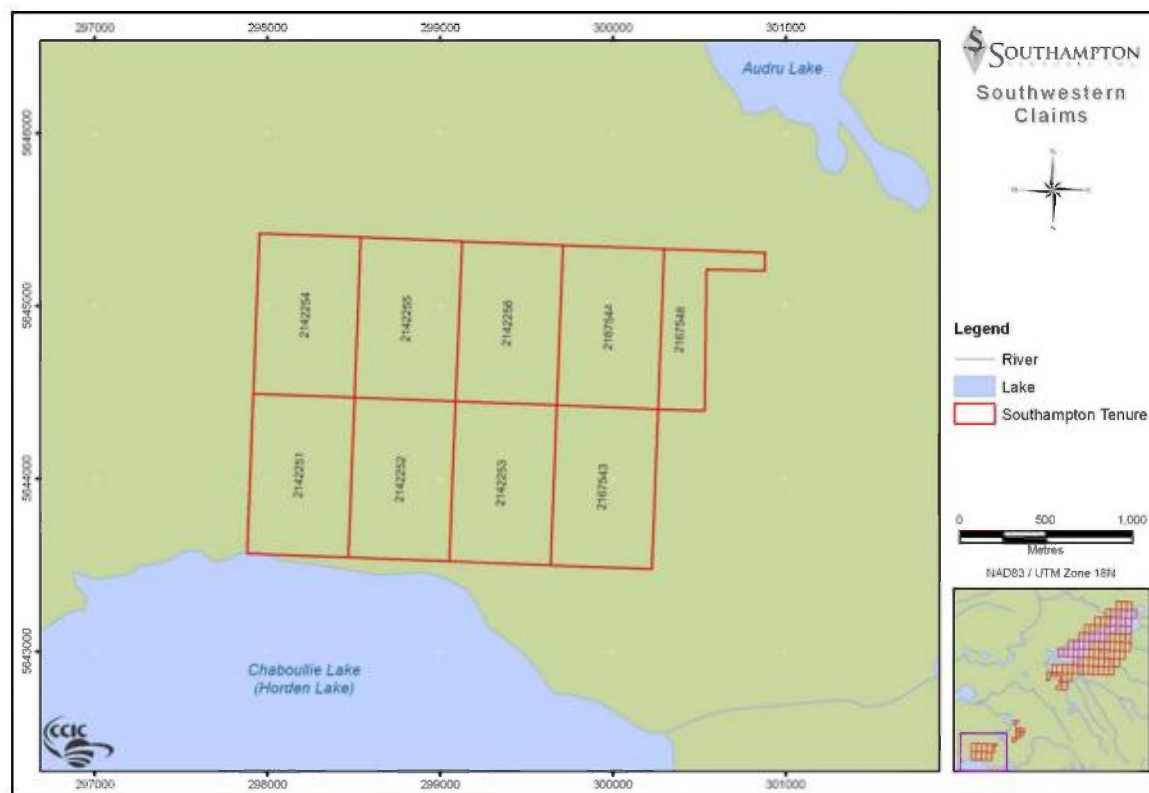


Figure 4-5. Location of Southwestern Claims group.

4.3 Establishing Mineral Rights in Quebec

The claim is the only valid type of mineral tenure in Québec. The claim gives the holder an exclusive right to search for mineral substances on the land encompassed by the claim, except sand, gravel, clay and other unconsolidated deposits.

Starting March 1st 2008 all claim boundaries in Quebec are determined by the provincial government's claim map which can be accessed through the Ministry of Natural Resources' website (<http://www.mrn.gouv.qc.ca/english/mines/index.jsp>); henceforth claim posts on the ground have no value. In order to stake areas around legacy claims that do not cover a full map designation block but small areas of several map blocks, all map designation blocks that fall partly in the desired area have to be staked. This was the case for a small sliver of land in the northwestern part of the Horden Lake Deposit claim group.

As of March 2008, a claim must be map-staked. The term of a claim is two years from the day the claim is registered. Claims can be renewed indefinitely providing the holder meets all the conditions set out in the Quebec Mining Act, including the obligation to invest a minimum amount in exploration work. The Act



includes provisions to allow any amount disbursed to perform work in excess of the prescribed requirements to be applied to subsequent terms of the claim.

4.3.1 Required Work

The holder is required to carry out assessment work prior to the 60th day preceding the expiry date of the claim. The nature and value of this work are determined by regulations.

- Technical evaluation studies under the supervision of a qualified professional
- The exploration and examination of rock outcrops and boulders
- Geological, geophysical or geochemical surveys under the supervision of a qualified professional, including line cutting work required for these surveys
- Rock stripping and excavating in overburden and in rocks
- Sampling and analysis. The analysis report must be signed by the person in charge of the laboratory
- Work required to open a face
- Drill-holes as well as any measurements and recording of data along the drill holes. Drill-hole descriptions must be made by a qualified professional
- Field-based exploration and assaying, or the study and assaying of samples taken from the field
- Technical/economical pre-feasibility or feasibility studies supervised by a qualified professional
- Land perimeter surveying work and location work on lands that were converted into map designated claims or subjected to a claim replacement
- Rehabilitation, restoration or security work.

The reports must be accompanied by a work declaration form and location maps. The amounts spent on property examination work and technical evaluation studies will be accepted only if they are performed during the 48 months following the claim registration date. Geological, geophysical or geochemical surveys as well as prospecting work performed on the claim during the 24 months preceding the staking date or the date of the application for map designation notice can be applied to the first term of the claim.

Prospecting work includes the exploration for and study of rock outcrops and boulders, as well as stripping of overburden, rock excavation, and sampling drill holes deeper than five metres. Technical assessment studies consist of compiling and summarizing geological and exploration work with the objective of evaluating the mineral potential. Property examination work consists of exploring and examining rock outcrops and boulders in order to discover indicators that may lead to the discovery of a mineral deposit. Work carried out on a claim during the 24 months preceding its current term is acceptable. Table 4-2 presents an overview of the required exploration expenditures.



Table 4-2. Exploration expenditure required to keep claims in good standing south of latitude 52°N.

Term	Surface Area of Claim		
	<25 ha	25-100 ha	>100 ha
1 to 3	\$500	\$1,200	\$1,800
4 to 6	\$750	\$1,800	\$2,700
>7	\$1,000	\$2,500	\$3,600

When the value of work carried out exceeds the minimum cost required, the excess can be used to renew claims within a circle of 4.5 km radius from the centre of the claim from which the excess will be taken. The excess can also be used for future renewals.

4.4 Permits and Conditions

According to the Quebec Mining Law, Hydro-Québec has the right to install and maintain hydraulic power operations and power lines in the area of the northeastern claims (article 304, paragraph 1). Hence any exploration or mining activity on these claims cannot interfere with Hydro-Québec's operations and no mining lease will be issued without the formal consent of Hydro-Québec.

5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

5.1 Access

Horden Lake Property is centred over the Horden Lake (Lac Chaboullié) Cu-Ni-PGE Deposit, about 10 km west of kilometre 200 on the James Bay Highway (Route 109), an all weather road connecting Matagami to the Hydro-Quebec James Bay power complex at Radisson (Figures 4-1 and 4-2). The Horden Lake Deposit can be accessed by trails in the winter and by float aircraft or helicopter during the remainder of the year. The winter trail that was historically used by INCO in the 1960's was restored in January 2008; this route provides the best access for heavy equipment to the northeastern claims and the Horden Lake Deposit. Access to the northeastern claims is also possible by boat on Lac Colomb which is directly accessible from the James Bay Highway. Road access does not exist to the southwestern claims.

In the 1960's, INCO used the Colomb Lake secondary road (~3 km) as a landing strip for small aircraft. The closest airports are located in Matagami (200 km south of Horden Lake) with a 1,524 m long asphalt runway, and Waskaganish (150 km north of Horden Lake). However, commercial flights (Air Creebec) are only available at Waskaganish.



5.2 Climate and vegetation

The climate is continental with a daily average temperature of -20°C in January and of 16°C in July. Mean precipitation for the year is 905 mm. Most of the rain falls during the months of June through October. Snow cover generally persists between October and May with an average depth of 50 cm (data from Environment Canada http://www.climate.weatheroffice.ec.gc.ca/climate_normals).

Vegetation is dominated by boreal forest softwood species (jackpine, white spruce and black spruce) and deciduous (white birch, trembling aspen and balsam poplar) with areas of open swamps and muskeg.

5.3 Physiography

The Horden Lake Property is characterized by low, undulating terrain that varies from 245 to 260 m above sea level. Outcrop exposure is limited to 2 to 3%. The drainage pattern is oriented roughly towards the northeast.

5.4 Infrastructure and Local Resources

Matagami is the nearest significant population center with ~2000 inhabitants. Banking services, electricity, medical clinics, schools, supplies and communications facilities are available in Matagami. Waskaganish is a small Cree community with an approximate population of 1830 inhabitants. Waskaganish has an airstrip but otherwise fewer facilities than Matagami.

The local economy is strongly influenced by the mining industry. People in the area are supportive of exploration and potential mining activity and a local supply of skilled and unskilled labour is available.

6.0 PROPERTY HISTORY

6.1 Exploration History

Table 6-1 gives an overview of the previous ownership of and exploration work completed on the Property.

Table 6-1. Overview of previous exploration activity in the Horden Lake Deposit area.

Company	Year	Work	Results
Pacific North West Capital Corp.	2005	DIGHEM survey	identified several moderately strong anomalies
Pacific North West Capital Corp.	2002	mapping, sampling, IP target ground truthing	up to 1.8% Cu+Ni for drill core samples



Company	Year	Work	Results
Canalaska Ventures Ltd.	July-August 2001	prospecting, sampling (of outcrop and DDH found on site), IP survey	up to 2.65 % Cu+Ni,
Canalaska Ventures Ltd.	March 2001	IP survey	5 high priority targets identified
Kingswood Resources Inc.	February 1993	pre feasibility study on Horden Lake Deposit	1,238,333 t @ 1.91% Cu, 0.40% Ni
Fort Rupert Resources	1987	airborne EM and magnetic survey, prospecting	numerous, well-defined conductors identified; minor mineralization found at gabbro-metasediment contact
Soquem	1973	ground EM and magnetic survey	no base-metals found
Inco	1960-1969	regional airborne geophysical surveys and 32,229 m of diamond drilling (157 holes)	resources of 6,088,900 t @ 1.24 % Cu, 0.33 % Ni, 18.40 g/t Ag
Department of Natural Resources	1963	mapping	preliminary report 514 and regional map 1510
Noranda Mines Ltd.	1957-58	airborne magnetic and EM survey; mapping	first discovery of sulfides NW of Horden Lake

Sulfides were first discovered north-west of Horden Lake by Noranda Mines Ltd. in 1957-58. Noranda completed geological (mapping) and geophysical (airborne magnetic and EM) surveys in the area. Noranda found disseminated pyrite but did not pursue any further activities (Lamoth, 1987).

Inco explored in the area from 1962 to 1969 (initially in a joint-venture with Noranda; Burton, 1986) and conducted regional and ground geophysical and geological surveys and diamond drilling totalling 32,229 m (157 holes) (Figure 6-1). Inco identified three main targets, one of which was the Horden Lake Deposit (Nemiscau Mines Deposit). Inco reported probable and proven reserves of 6,088,900 t of ore grading 1.24 % Cu, 0.33 % Ni and 18.40 g/t Ag (WGM, 1993).

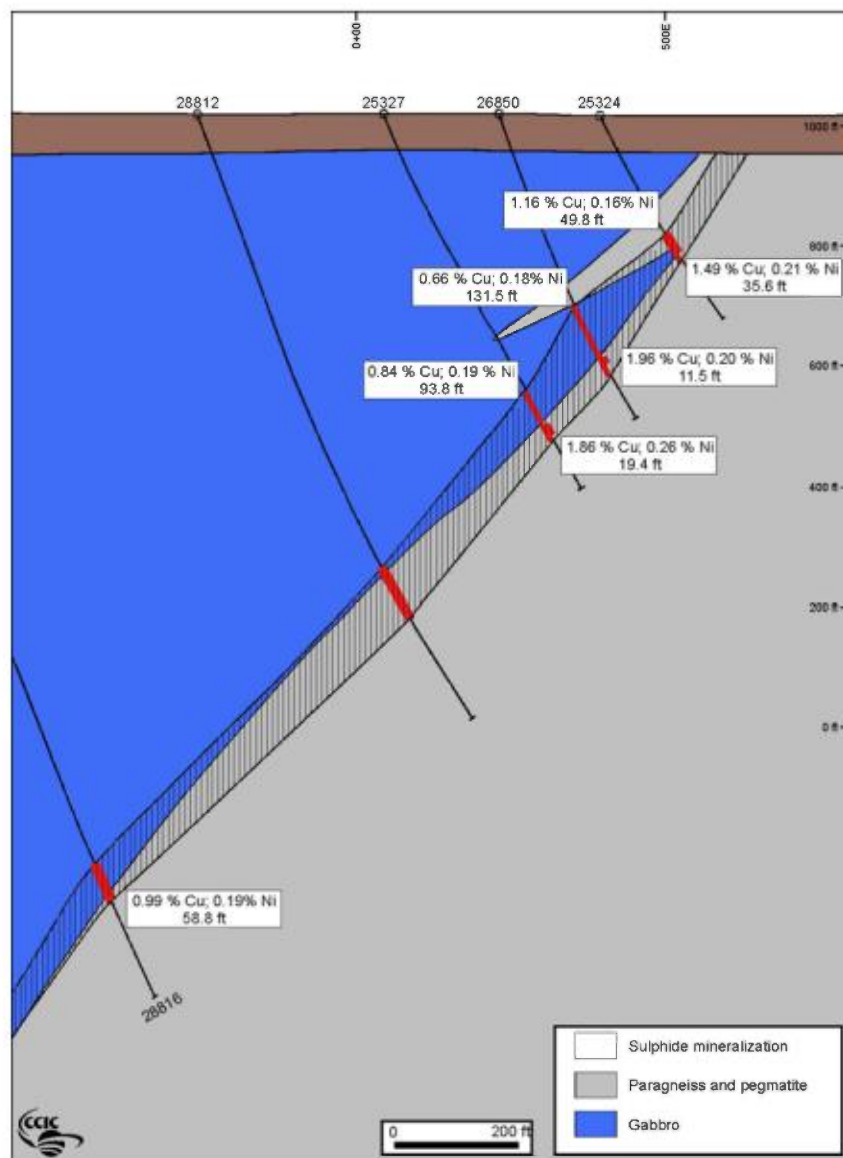


Figure 6-1. Cross section along line 12200N at Horden Lake Deposit. The zone of mineralization occurs along the contact between the mafic intrusion and the paragneiss (Bandyayera and Sharma, 2001). The drill holes in this figure are Inco's.

Soquem and Fort Rupert Resources conducted geophysical surveys in 1973 and 1987, respectively, and Fort Rupert Resources identified several conductors but found only minor mineralization.

Kingswood Resources Inc. commissioned Watts-Griffis-McOuatt (WGM) to complete a prefeasibility study on the Horden Lake Deposit in 1993. They estimated that reserves of 1,238,333 t of ore at grades of 1.9 % Cu and 0.40 % Ni or 4,365,428 t of ore at 1.27 % Cu and 0.38 % Ni exist. These reserves are not NI43-101 compliant. WGM concluded that the estimated reserves did not support a viable operation at that time and that further exploration expanding the high-grade reserves was necessary to operate a mine



economically. However, WMG further stated that the Horden Lake Property represented “an excellent exploration opportunity” and that “significant untested exploration potential” existed and further work was warranted (WMG, 1993).

Canalaska Ventures Ltd. completed geophysical (IP) and geological surveys in 2001 and identified five targets.

Pacific North West Capital Corp. conducted a geological survey on the Horden Lake Property in 2002. The survey consisted of mapping, prospecting and ground truthing of Canalaska's IP survey from 2001 (Lyons and Jobin-Bevans, 2002). Two main areas of gossan were found north and south of Inco's “Main Zone”. The altered areas were about 5 m × 10 m and contained 5-10 % blebby chalcopyrite and pyrrhotite. In addition, samples were collected from rare outcrop and from drill core found on the Property. The drill core samples returned up to 1.8 % Cu+Ni.

6.2 Historical Reserve and Resource Estimates

WGM completed a reserve estimation for Kingswood Resources Inc. in 1993 (WGM, 1993). The estimate is not NI43-101 compliant and should not be relied on. The definitions for reserves used by WGM are from the Canadian Provincial Securities Administration (as outlined in the National Policy 2-A at the time); the currently used standards are published by the Canadian Institute of Mining, Metallurgy and Petroleum (<http://www.cim.org/definitions/CIMdef1.PDF>). As used by WGM, “**proven and measure**” ore means material

“for which tonnage is computed from dimensions revealed in outcrops or trenches or underground workings or drill holes and for which the grade is computed from the results of adequate sampling, and for which the sites of inspection, sampling and measurement are so spaced and the geological character so well defined that the size, shape and mineral content are established, and for which the computed tonnage and grade of Proven and Measured Ore are “in situ” or extractable, with dilution factors clearly shown, and reasons for the use of these dilution factors clearly explained.”

“**Probably and indicated**” ore means material

“for which tonnage and grade are computed partly from specific measurements, sample or production data, and partly from projection for a reasonable distance on geologic evidence and for which the sites available for inspection, measurement and sampling are too widely or otherwise inappropriately spaced to outline the material completely or establish its grade throughout.”

“**Possible or inferred**” ore means material



"for which quantitative estimates are based largely on broad knowledge of the geological character of the deposit and for which there are few, if any, samples or measurements, and for which the estimates are based on assumed continuity or repetition for which there are reasonable geological indications, which indications may include comparison with deposits of similar type, and bodies that are completely concealed if there is specific evidence of their presence, and i) estimates of Possible and Inferred Ore shall include a statement of conditions within which the material occurs, and ii) since the arithmetic average of any amount of sampling is not necessarily representative unless the distribution of values are properly taken into account, a statement of how samples were taken shall be given, and where mineralization is erratic, the method of treating the erratic values shall be given in the narrative of the report, and iii) Possible and Inferred reserves must not be added to other categories of reserves and their inclusion is not acceptable in any economic analysis or feasibility study of a project."

WGM used historic drill hole information from Inco and Noranda to estimate reserves. The results are shown in Table 6-2.

Table 6-2. Results of the WGM reserve estimation (WGM, 1993)

Reserve Block Cutoff Grades	Probably (tonnes)	Possible (tonnes)	Cu (%)	Ni (%)
1.5 % +Cu	794,447		2.33	0.43
		1,708,732	1.84	0.43
1.0 % - 1.49 % Cu	343,014		1.25	0.35
		837,539	1.24	0.47
0.5 % -0.99 % Cu	100,872		0.84	0.39
		1,819,157	0.75	0.3
Total Probable	1,238,333		1.91	0.4
Total Possible		4,365,428	1.27	0.38

Inco completed definition drilling of the sulphide mineralization at the Horden Lake Deposit (formerly called Nemiscau Mines Deposit) in 1969. In 1970, Inco reported an uncategorized reserve of 5,760,500 t (tonnes) of ore grading 1.48 % Cu, 0.39 % Ni and 22.29 g/t Ag (WGM, 1993). In 1974, Inco revised and categorized the initial estimate to a total proven and probable reserve of 6,088,900 t grading 1.24 % Cu, 0.33 % Ni and 18.40 g/t Ag. The cut-off grade used for this estimate was 1.5 % Cu. The definitions of proven and probably reserves used by Inco do not confirm to the definitions by the Canadian Institute of Mining, Metallurgy and Petroleum, which are the current industry standard (<http://www.cim.org/definitions/CIMdef1.PDF>). Instead, Inco defined the term "proven reserve" as an ore body that is continuous for 30 m horizontally and vertically, or a body that is 30 m in the vertical and 15 m in the horizontal dimension if the following section is unmineralized. "Probable reserves" are defined as occurring 30 m to 90 m from a drill hole intersection in vertical direction and 30 m horizontally (15 m horizontally if the following section is unmineralized; WGM, 1993).



6.3 Historical Metallurgy

In the early 1970s, Inco performed preliminary flotation testing on five drill core samples from the Horden lake Property (WGM, 1993). The tests resulted in recoveries from 85 % to 96 % with concentrates Ni, Cu, Ag and traces of Au and platinum group elements (PGE). Copper grades in the concentrate range from 21.5 % to 30.4 % (reported in WGM, 1993).

6.4 Historical Production

The Horden Lake Deposit never went into production.

7.0 GEOLOGICAL SETTING

7.1 Regional Geology

The Horden Lake Property is located in the Nemiscau Subprovince, close to the border with the Opatica Subprovince, of the Superior Province of the Canadian Shield (Figures 7-1 and 7-2). The three other Subprovinces in the James Bay region are the La Grande, Opinaca and Opatica Subprovinces. The area is characterized by metasedimentary and volcano-plutonic rocks and is transected by EW and NE-SW trending shear zones. The rocks are metamorphosed to greenschist facies and locally to amphibolite facies. Peak metamorphic temperatures increase from the Quetico to the Nemiscau and on to the Opinaca and Ashuanipi Subprovinces indicating exposure of different crustal levels (Percival 1989). Late granites intrude the metasedimentary and volcano-plutonic rocks (Houle, 2004).

Percival (1998) suggested that the Nemiscau Subprovince is a remnant of an Archean accretionary prism although its age is poorly constrained. Metasedimentary rocks in the Nemiscau Subprovince are interpreted to have been deposited between 2698 Ma and 2688 Ma (Percival et al., 1992) and the age of the granites that intruded the metasedimentary rocks is 2672 ± 2 Ma (Davies et al., 1995).

Structurally, bedding and foliation dip moderately to the NW. Low-angle normal faulting, subvertical strike-slip and oblique shear zones are dominant.

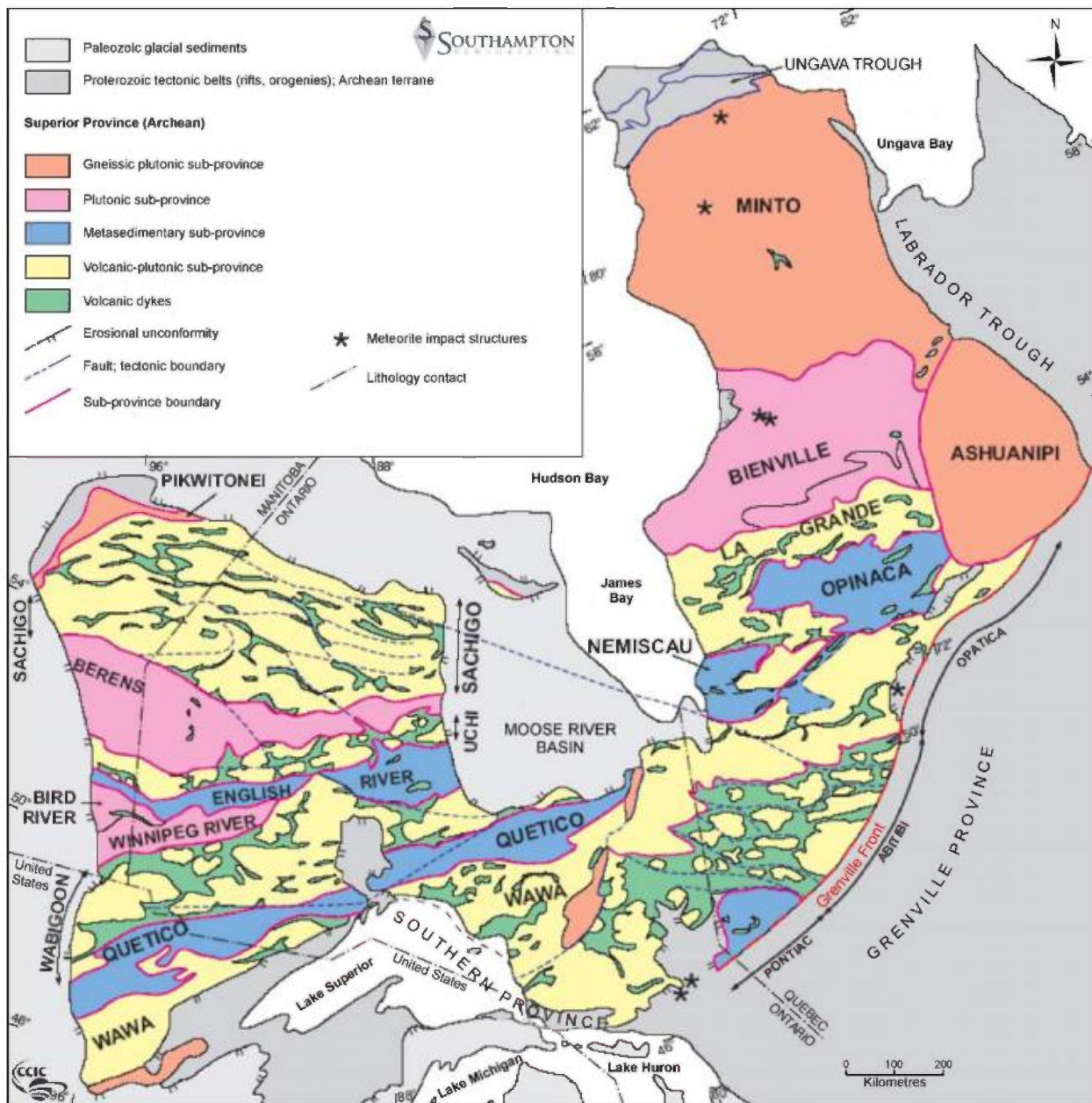


Figure 7-1. Geological map of the Superior Province of the Canadian Shield showing its Subprovinces and the location of the Horden Lake Property (modified from Marquis, 2004).

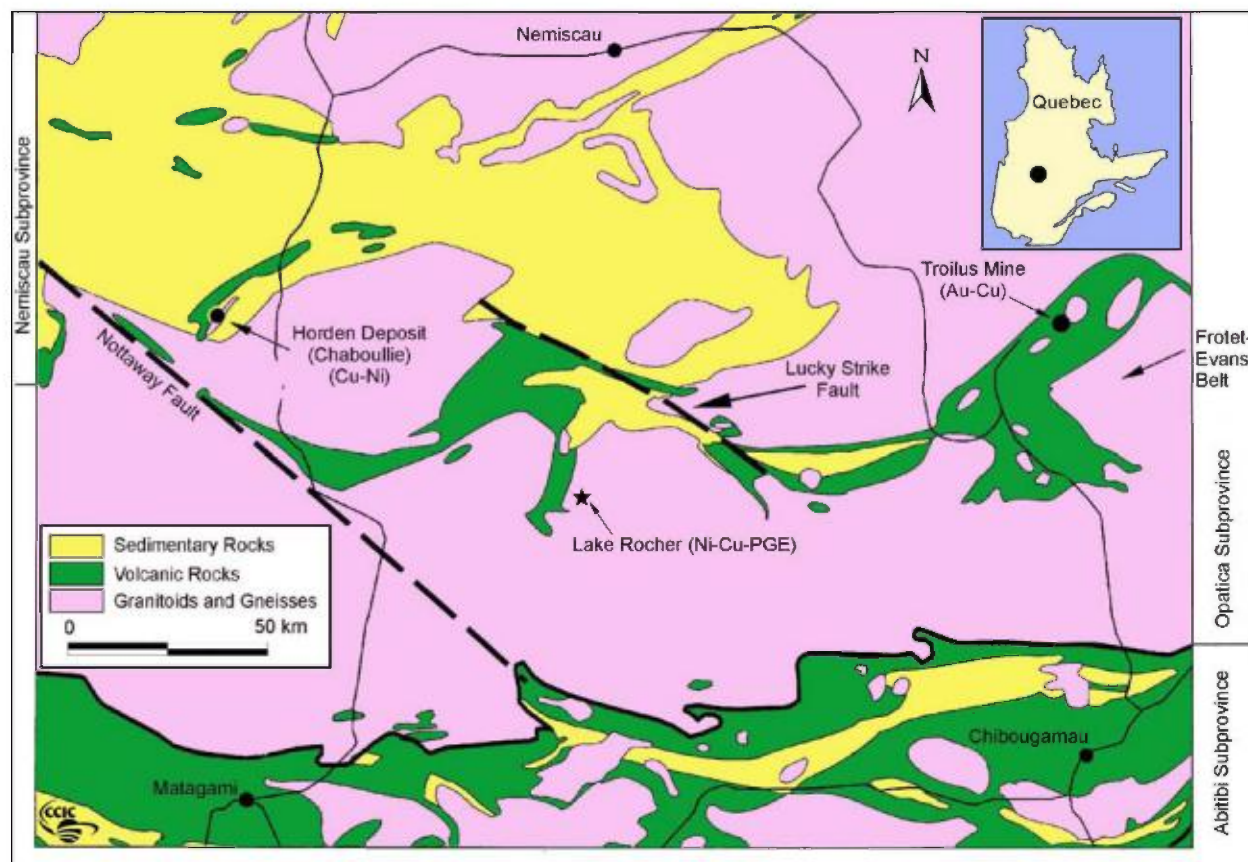


Figure 7-2. Regional geology for the Frotet-Evans greenstone belt, Opatica Subprovince (Bandyayera and Sharma, 2001).

7.2 Property Geology

The geology of the Horden Lake area was mapped by Remick (1963). A simplified stratigraphic column after Remick (1963) is shown in Table 7-1. The dominant rock types are metavolcanic and metasedimentary rocks. Meta-gabbro occurs as a long and narrow, concordant body and has inclusions of metasedimentary rocks. Granites intruded the metasedimentary and metavolcanic package. The granites themselves are cut by granitic dikes and pegmatites. The youngest rocks in the area are gabbro and diabase dikes. Figures 7-3 and 7-4 are maps of the local geology. Structurally, the rocks strike EW, NE and NW and dip steeply to the south (Figure 7-4). Shearing is abundant in the area.



Table 7-1. Simplified stratigraphic column of the Horden Lake area after Remick (1963)

Era	Major Rock Type	Description
Cenozoic	Sediments	marine clay, silt, sand, gravel
	Basic dikes	gabbro, diabase
Precambrian	Granitic rocks	muscovite pegmatite, muscovite granite, tourmaline granite
		syenite
		pink leucocratic granite with stained quartz
		salmon granite
		gray granite
		hornblende granite, granitic gneiss
	Metamorphosed basic intrusive rocks	meta-gabbro
		anorthositic meta-gabbro
	Metamorphosed sedimentary rocks	biotite and garnet-biotite paragneiss
		biotite and/or hornblende paragneiss
		quartzite
		quartz-magnetite rocks
		tremolite schist
	Metamorphosed volcanic rocks	pillowed and non-pillowed lava
amphibolite		

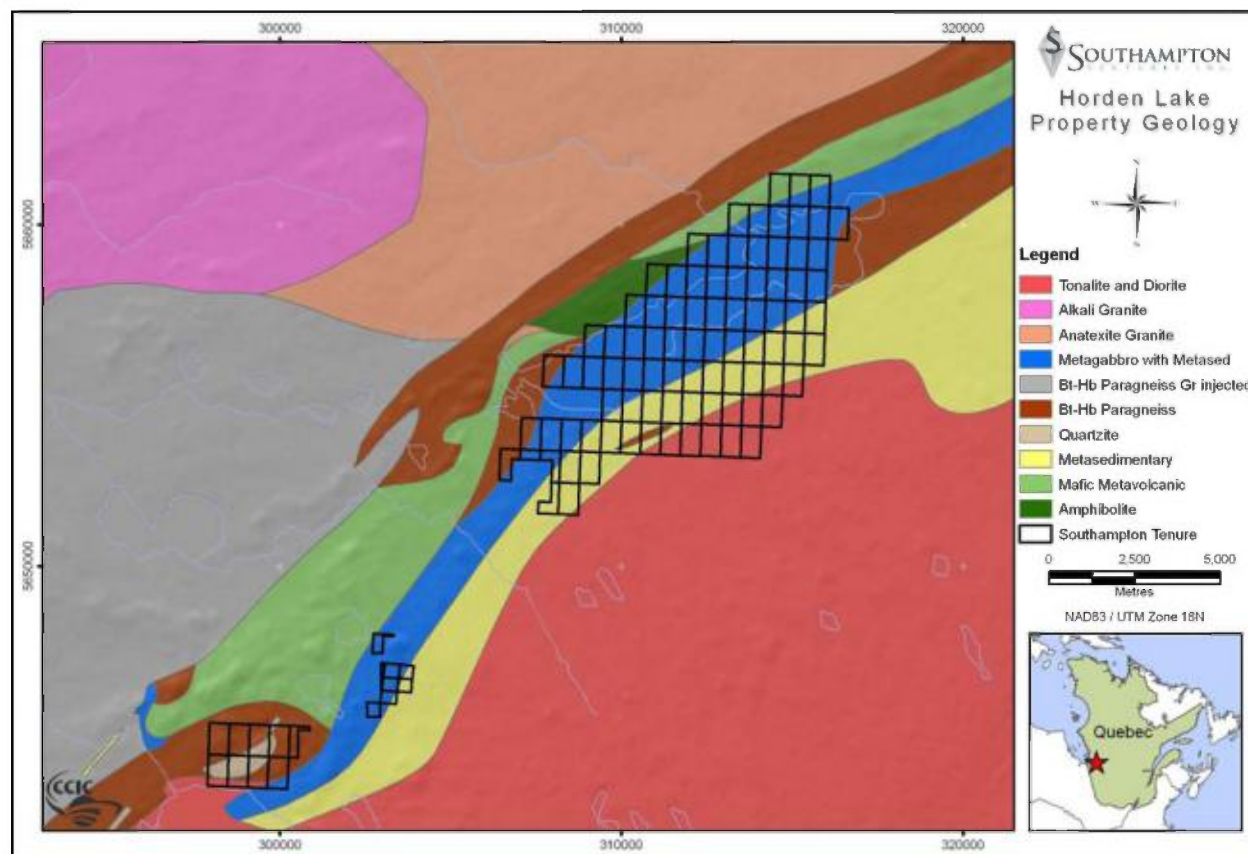


Figure 7-3. Horden Lake Property geology .

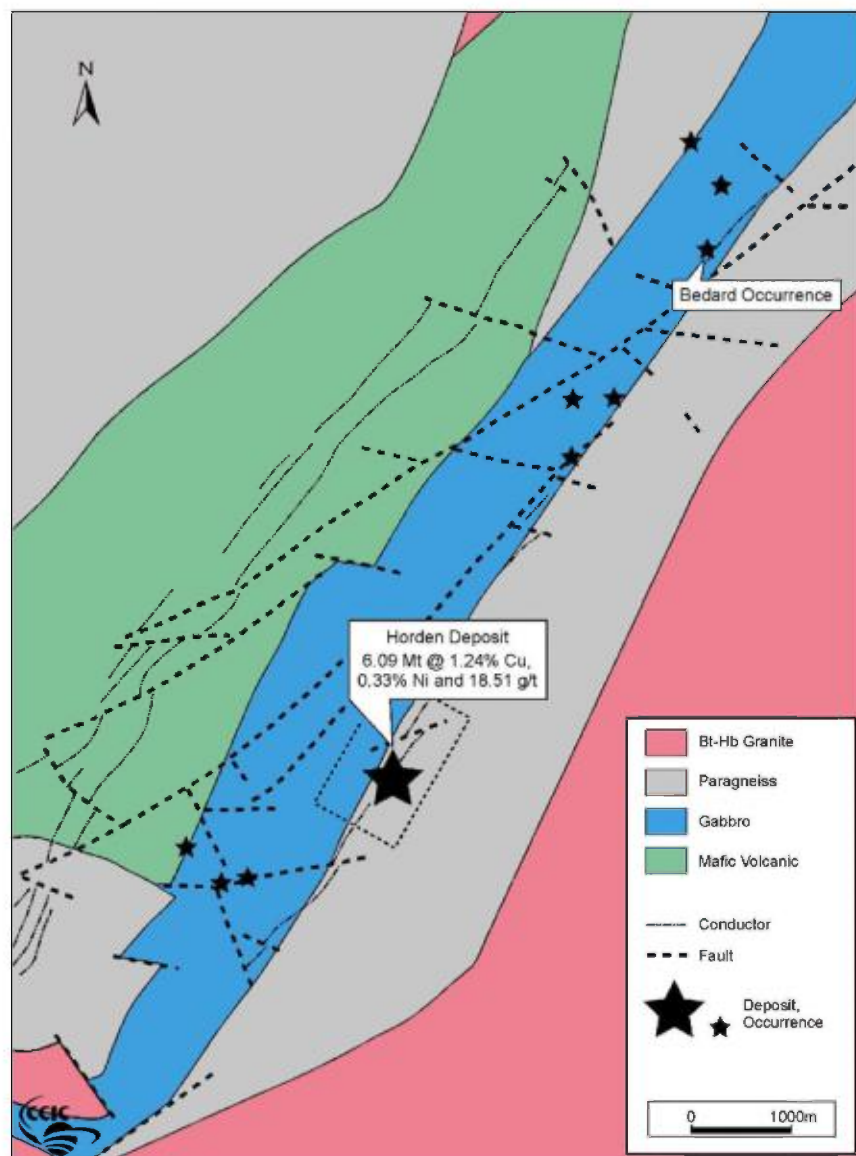


Figure 7-4. Local geology of the Horden Lake Deposit (Bandyayera and Sharma, 2001). The resource in this figure is Inco's 1974 proven and probable reserve (not 43-101 compliant) for Horden Lake Deposit.

Lyons and Jobin-Bevans (2002) concluded from their geological survey in the Horden Lake area that the meta-gabbro mapped by Remick is a 40 m long and 1-1.5 m wide mafic/ultramafic sill. The layering of the sill from east to west consists of: (1) poikilitic gabbro, (2) metapyroxenite and metagabbro, (3) metagabbro, (4) anorthositic gabbro, (5) metagabbro, (6) anorthositic metagabbro and (7) quartz-bearing meta-gabbro (cf. Bandyayera and Sharma, 2001). The rocks in the immediate area of the Horden Lake Deposit are variably altered with amphibole replacing pyroxene. The rocks are foliated (striking 50°) and sheared, dipping to the SE. Locally, traces of fine-grained, disseminated pyrrhotite occur. The



dominant host of the mineralization appears to be the gabbro with up to 5 % disseminated pyrrhotite and chalcopyrite, and blebby sulfides also occur in shear zones (Lyons and Jobin-Bevans, 2002).

The footwall of the mineralization consists of metasedimentary rocks, dominantly quartzites, meta-greywacke, cordierite-anthophyllite-cumingtonite-bearing rocks of sedimentary origin and quartz-sericite schists.

8.0 DEPOSIT TYPE

The Horden Lake Deposit is a magmatic Ni-Cu (\pm PGE) deposit associated with mafic and ultramafic rocks. These deposits commonly occur as massive bodies or disseminations along the contacts of mafic to ultramafic intrusions with the surrounding host rock. The fundamental process by which these deposits form is exsolution of immiscible sulfide liquid from mafic-to-ultramafic magmas. The exsolved sulfide liquid tends to segregate due to gravity and thus forms massive sulfide layers. Trace elements like PGE, Au or Co partition into the sulfide liquid as it settles (Foose et al., 1995).

Typical geological settings in which these deposits occur are:

1. Greenstone belts and calc-alkaline batholiths associated with convergent plate margins
2. Ophiolite complexes that formed at constructive plate margins
3. Intraplate magmatic provinces associated with flood basalt-type magmatism (e.g., Noril'sk, Russia; Jinchuan, China; Duluth, Minnesota)
4. Passively rifted continental margins.
5. Komatiites (e.g., Kambalda, Australia)
6. Other mafic/ultramafic (layered) intrusions (e.g., Bushveld, South Africa; Voisey's Bay, Labrador)

The Ni-Cu deposits of Sudbury, Ontario, are related to a meteorite impact and form a unique category of Ni-Cu deposits (with Sudbury being the only example).

Characteristic features of magmatic Ni-Cu deposits are:

1. Near vertical feeder conduits
2. Structural embayments and depressions in basal contact acting as traps and means of concentration of massive sulfide
3. Sulphur is typically derived from contamination by country rocks



Sulfide mineral assemblages are dominated by pyrrhotite, pentlandite and chalcopyrite. Minor ore minerals include PGE sulfides, arsenides, tellurides and alloys, galena, sphalerite, gold and silver. Magnetite is typically abundant in these deposits.

Because of the accumulation of massive sulfide in these deposits, electromagnetic geophysical methods are used frequently for exploration. Magnetic surveys are also suitable due to the abundance of magnetite.

9.0 MINERALIZATION

Remick (1963) described the mineralization at the Horden Lake Deposit as consisting of small lenticular zones of chalcopyrite and pyrrhotite in the gabbro and as rusty zones in the metavolcanic and metasedimentary rocks (Figure 9-1). The lenses are 10 to 40 ft (3-12 m) wide and up to 100 ft (30.5 m) long whereas the rusty areas are 20 to 100 ft (6-30.5 m) wide and 100 ft (30.5 m) to several hundred feet long and contain minor pyrite, pyrrhotite and arsenopyrite.

Lyons and Jobin-Bevans (2002) also report two distinct mineralization styles. (1) Blebby pyrrhotite and chalcopyrite in gabbro and (2) large blebs and disseminations of chalcopyrite and pyrrhotite in shear zones. Both types are most abundant at the contact between the metasedimentary rocks and the gabbro.

Inco's "main zone" or "Inco horizon" is a conductive and sulfide-rich zone related to a NE trending, 50°-60° W dipping structure near the contact of the gabbro and the metasedimentary rocks (WGM, 1993). Both rock types are mineralized. The "main zone" is 1-30 m wide and 1,950 m long. The dominant sulfides are pyrrhotite, pyrite and chalcopyrite. Minor sphalerite also occurs. Traces of PGE, Au and Ag were recorded. The ore minerals occur as disseminations and stringers. The footwall contact between country rock and mineralization tends to be sharp whereas the hanging wall contact appears to be gradual. East trending faults offset the ore zone in steps.

The mineralization encountered during the 2008 drilling program occurred along the contact of the gabbroic complex and metasedimentary rocks. Two mineralization styles were observed. The first style is prominent in the medium- to coarse-grained gabbro and near the contact with the metasedimentary rocks. It consists of disseminated to blebby pyrrhotite, pyrite and chalcopyrite (locally up to 25% sulphides; Figure 9-2). The second style of mineralization ranges from large sulfide blebs to massive sulfide consisting dominantly of pyrrhotite, pyrite and chalcopyrite in shear zones along the contact between gabbro and metasedimentary rocks (Figure 9-3). Locally, sphalerite (Figure 9-4) and galena (Figure 9-5) occur in altered gabbro.



The mineralization was moderately continuous along the northeast trending contact of the metasedimentary rocks and the gabbroic body. The best massive sulphide intersection was observed in drill hole HN-08-07 with a length of 4.30 m. The average length of the mineralized intersection is approximately 3 m.

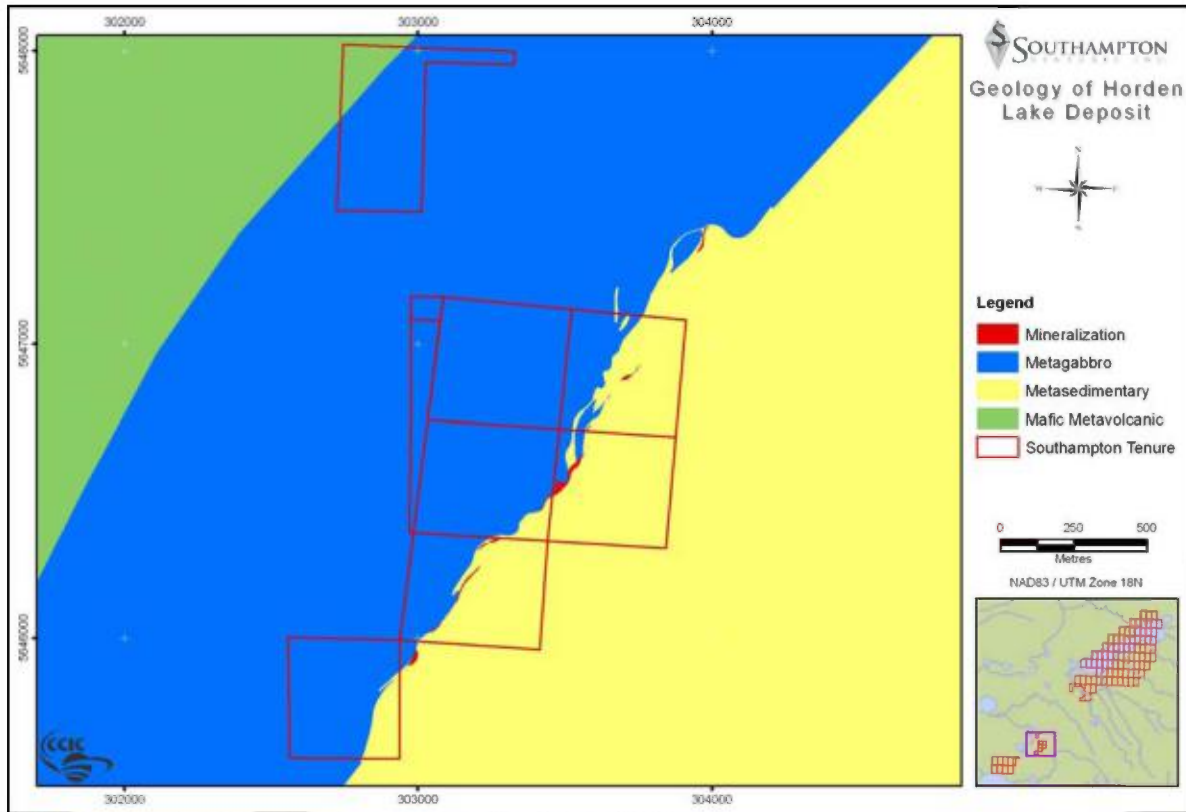


Figure 9-1. Geology and mineralization of the Horden Lake Deposit



Figure 9-2. Photograph of drill core from DDH HN-08-53 (260.02–332.20 m) consisting of disseminated to blebby pyrrhotite, pyrite and chalcopyrite in the medium- to coarse-grained gabbro near the contact with the metasedimentary rocks. Drill core diameter is 47.6 mm.



Figure 9-3. Photograph of drill core from DDH HN-08-07 (102.71-107.00 m) showing large blebs of pyrrhotite, pyrite and chalcopyrite and massive sulfide in a shear zone at the contact between gabbro and metasedimentary rocks. Drill core diameter is 47.6 mm.



Figure 9-4. Photograph of drill core from DDH HN-08-17 (261.11-261.25 m) showing sphalerite mineralization in the gabbro. Drill core diameter is 47.6 mm.



Figure 9-5. Photograph of drill core from DDH HN-08-05 (294.1-295 m) showing galena mineralization in the gabbro. Drill core diameter is 47.6 mm.



10.0 EXPLORATION

The Phase 1 exploration program was completed on the Horden Lake property between December 7th and April 29th, 2008. It included an 18,136 m drilling program on the Horden Lake Deposit Property and an airborne geophysical survey on the Horden Lake, the northeastern and southwestern claims.

10.1 Horden Lake HeliGEO TEM II Survey

10.1.1 Introduction

A Fugro HeliGEO TEM[®] II survey was commissioned by Southampton in February 2008 to fly three profile lines over the Horden Lake deposit and 131 and 35 lines over the exploration areas to the NE and SW blocks respectively. A full logistics report has been provided by Fugro with delivery of final products (Fugro, 2008).

10.1.2 Theory

The HeliGEO TEM[®] II platform operates by transmitting a primary current pulse in the form of a half sine-wave into a two-turn transmitting loop towed below the helicopter. The receiver is a three-axis (x, y, z) induction coil suspended on a tow cable below the helicopter, 40 m above the transmitter. It is constructed of non-magnetic material (See Figure 10-1).

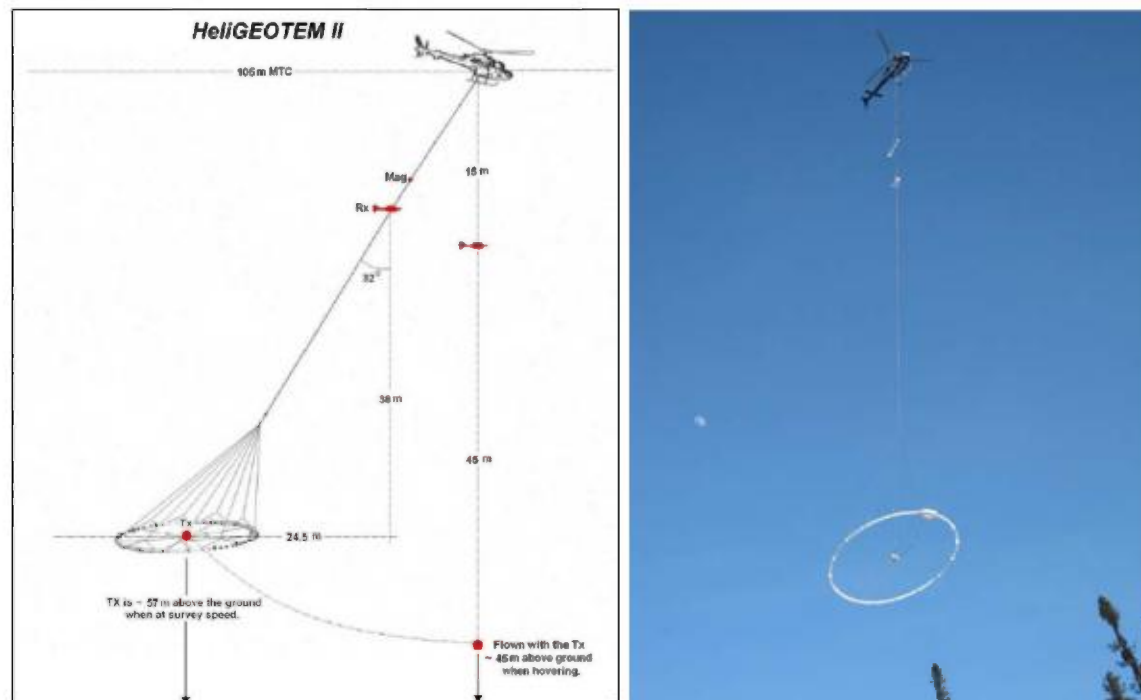


Figure 10-1. Nominal geometry of the HeliGEO TEM[®] II electromagnetic system (Fugro, 2008) and an actual photo of HeliGEO TEM[®] airborne survey at Horden Lake.



Each primary pulse induces decaying eddy currents in the ground which in turn produces a secondary magnetic field. This secondary magnetic field induces a voltage in the receiver induction coils which is the recorded electromagnetic response. In general, good conductors decay slowly and poorer conductors decay more rapidly (Figure 10-2).

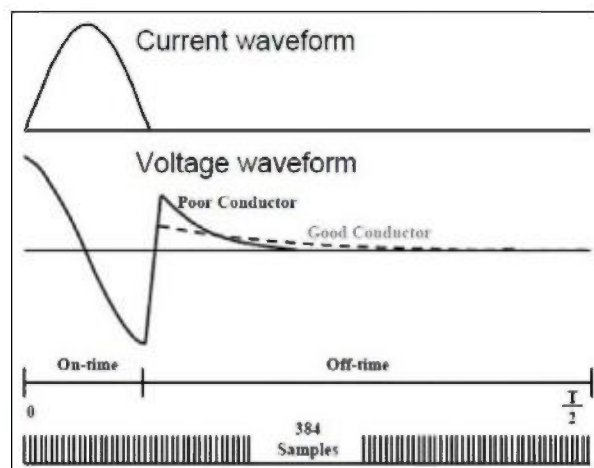


Figure 10-2. Waveforms and data sampling throughout the transmitter on- and off-time (Fugro, 2008)

The primary field is not nulled by a bucking coil. Rather, the system's primary field response is measured by flying to a height that will not measure the effect of the ground. This calculated primary field is then removed from the survey data. It should be noted that this process removes any in-phase response from the ground which has the same shape as the primary field (Fugro, 2008).

The below nomograms show the dB/dt and B-field vertical plate response profiles for the HeliGEOTEM® II system. Nickel targets typically exist in the >200S range, hence a B-field late time response would be expected.

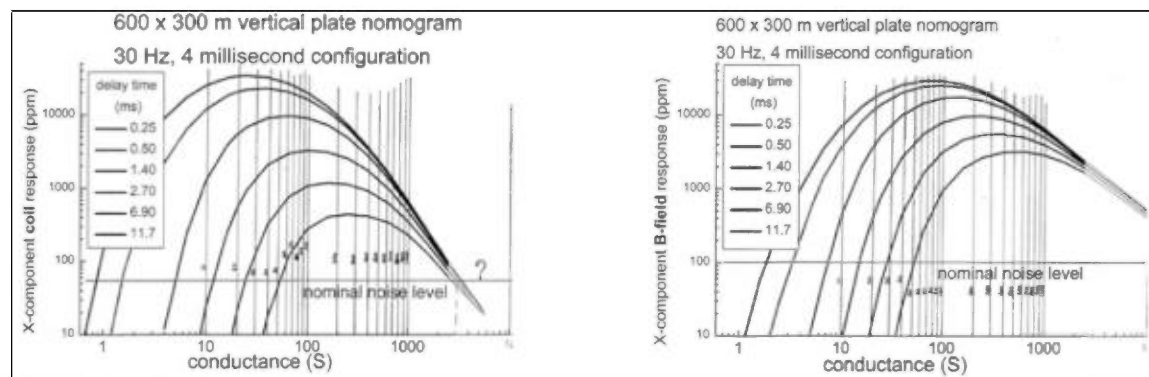


Figure 10-3. Vertical plate nomograms
 Left - dB/dt vertical plate nomogram, Right – B-field vertical plate nomogram (Fugro, 2008).



10.1.3 Survey Plan

The Horden Lake survey was based in Matagami Québec. A total of 592 line-km were collected at a line spacing of 100 m. The survey specifications are summarised below in Table 10-1.

Table 10-1. Horden Lake Survey Specifications

Item	Specification
Company	Southampton Ventures Inc.
Project	Horden Lake Project
Survey Name	Horden Lake
Survey Type	Helicopter-towed Magnetic and Time-Domain Electromagnetics
Platform	Fugro HeliGEM [®] II
Instrument	HeliGEM 20 channel Multicoil System
Flown By	Fugro Airborne Surveys
Aircraft	AS-350 B3 Helicopter
Date	February 9th - February 22nd, 2008
Line km	592 line-km
Area	59.2 km ²
Flight Height	95m
Base Frequency	90 Hz
Pulse Width	1975 μ s
Pulse Delay	87 μ s
Off-time	3494 μ s
Transmitter Current	~750 A
Dipole Moment	~4.6x10 ⁵ Am ²
Nominal Speed	30 m/s
Line Spacing	100m
Line Direction	133°
Tie line Spacing	750m
Tie line Direction	43°
Survey Base	Matagami, Québec

Fugro has provided several synthetic model responses in the appendix of the logistics and processing report (Fugro, 2008). A number of plate and sphere models with varying depth of burial (0, 75, 150 m) and varying plate dips (0, 45, 90, 135°) were generated using the geometry of HeliGEM system. These synthetic responses were used during the interpretation.



10.1.4. Interpretation

Horden Lake Deposit

Three lines were flown over the Horden Lake deposit. Figure 10-4 shows Horden Lake detailed deposit geology with Z component of the Off-time profiles overlain. This will be referred to as HDN_0001 in the final anomaly list. The mineralized zone shows a clear association with magnetic and conductive responses. Figure 10-5 displays the same data with the first vertical derivative of the magnetics underlain.

In general, the profiles suggest that the response has closest resemblance to a sphere, with a small component dipping to the NW. The conductive response is constrained to the contact between the mapped metagabbro (Figure 10-4, green) and metasediments (Figure 10-4, yellow). The geophysical response corroborates the mapped 50° strike. The profiles of the magnetic data indicate a deep regional magnetic feature that has a near vertical dip. The conductive response profiles can be viewed in Figure 10-6. In general, this conductor contains a response throughout all time channels, which is typical of a massive sulphide.

The Horden Lake deposit is a magmatic Ni-Cu (\pm PGE) deposit associated with mafic and ultramafic rocks (Lyons and Jobin-Bevans, 2002). These deposits commonly occur as massive bodies or disseminations along the contacts of mafic to ultramafic intrusions with the surrounding host rock. Given the mafic to ultramafic nature of the host (gabbro, in this instance), as well as the likelihood for magnetite to develop in such rock types, this conductive/magnetic association will be an upgrading factor when examining the adjacent northeast and southwest blocks for similar targets. The associated near-vertical magnetic response, and contained spherical EM response could indicate the presence of a feeder zone to this steeply dipping mafic-ultramafic sill.

It should be noted that a similar striking magnetic feature exists to the north-west of the Horden Lake Deposit, and has similar magnetic amplitude. However, this feature does not yield a conductive response.

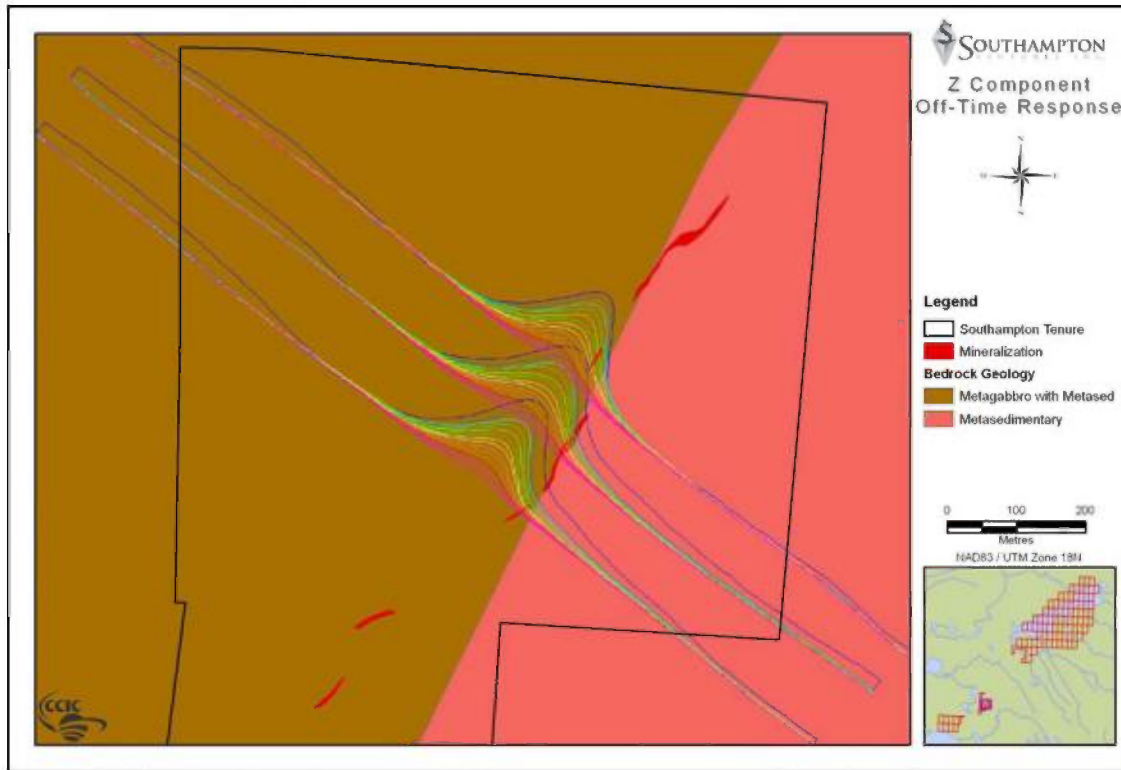


Figure 10-4. Horden Lake: Z component off-time response over mapped deposit geology

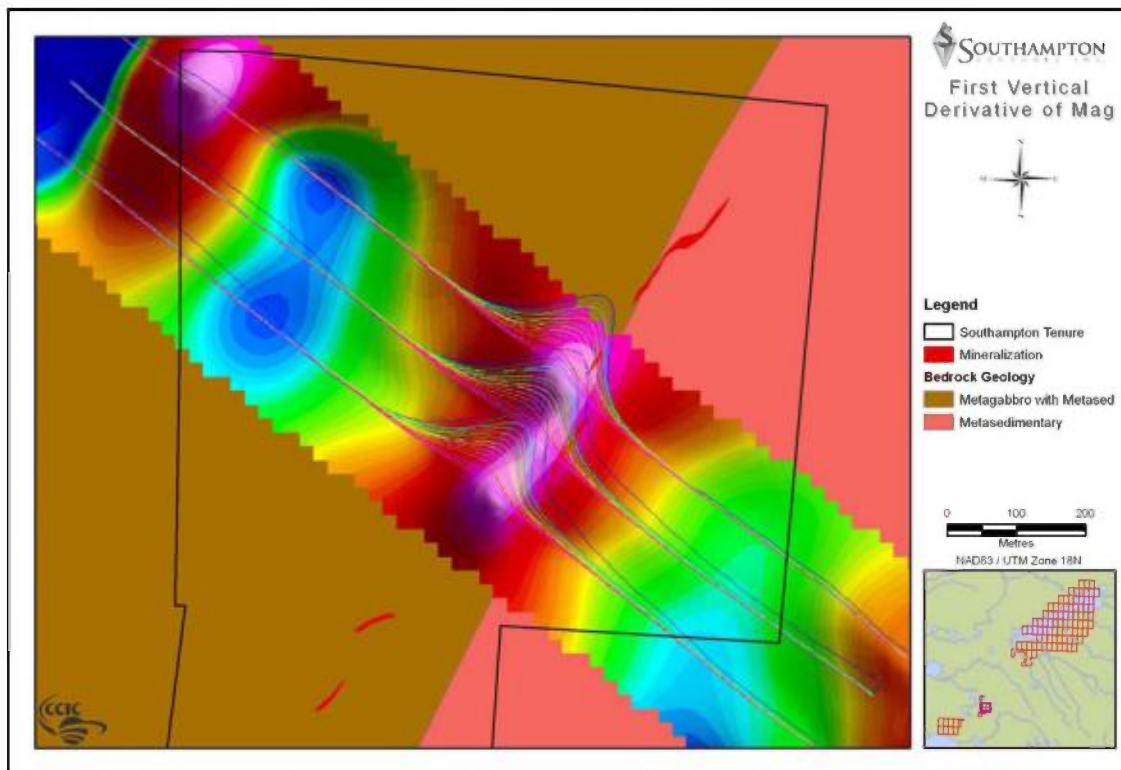


Figure 10-5. Horden Lake: first vertical derivative of mag. and Z component offtime profiles.

The mineralized zone is along the contact of the metagabbro (brown) and metasediments (pink) and is coincident with the linear magnetic feature.

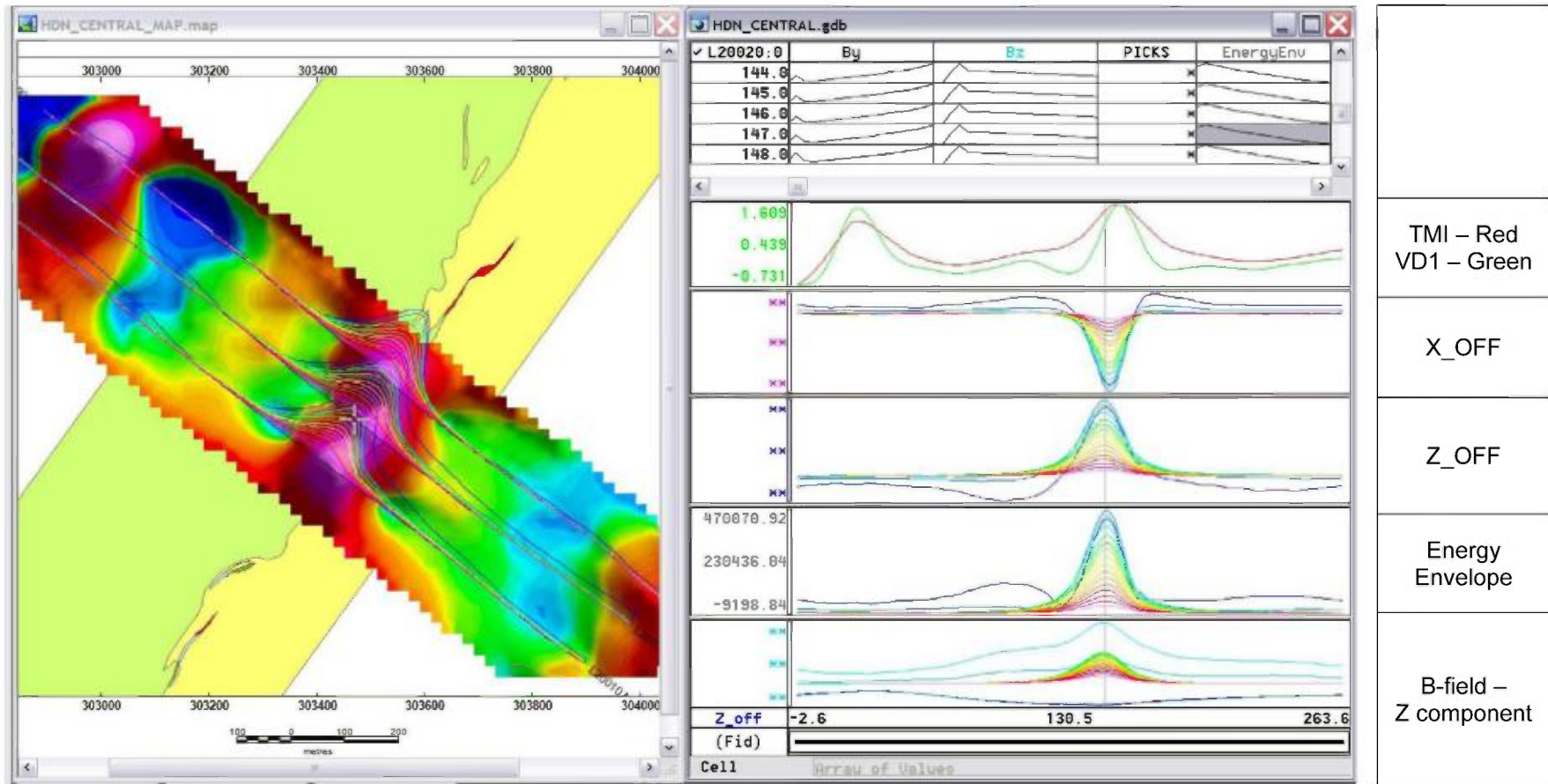


Figure 10-6. Horden Lake Deposit profile view.
 Not all subsequent plots contain the same profile panels; Magnetics, X-offtime, Z-offtime, Energy Envelope, Z-component of calculated B-field



Northeast Block

A large claim block northeast of the Horden Lake was flown, consisting of 524 line-km covering 5.24 km². A prominent lake runs SW-NE throughout the block and is parallel to the strike of the mapped geology.

The geology of the area strikes NE and covers six main geologic units. Shown in Figure 10-7, from NW to SE they are:

1. Mafic metavolcanic: amphibolite and metagabbro
2. Amphibolite
3. Bt-Hb paragneiss +/- muscovite pegmatite
4. Metagabbro with metasediments injected with muscovite pegmatite
5. Muscovite pegmatite/white granite +/- muscovite, garnet, tourmaline
6. Tonalite and diorite

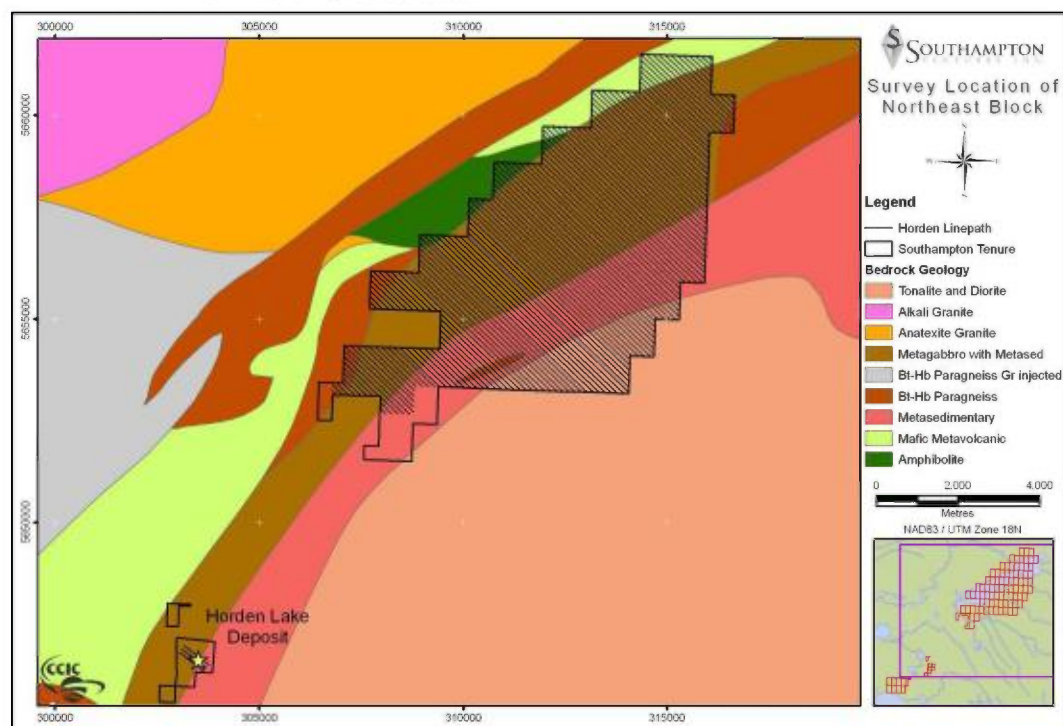


Figure 10-7. Survey Location of Northeast Block and bedrock geology

The Horden Lake Deposit occurs at the contact between the regionally mapped metagabbro and the muscovite pegmatite/white granite units (Figure 10-4). However, Lyons and Jobin-Bevans (2002) have shown through a detailed study that the footwall is actually a metasediment. The regionally mapped units extend into the exploration area to the northeast. Similar sedimentary rocks may also occur there.

A range of structures and geologic boundaries are shown by the magnetic data (Figure 10-8). Detailed maps are provided in Appendix 4 – Magnetic Maps. The first vertical derivative and the tilt derivative are



shown in figures 10-9 and 10-10. The remainder of this report focuses on the bedrock conductor target selection.

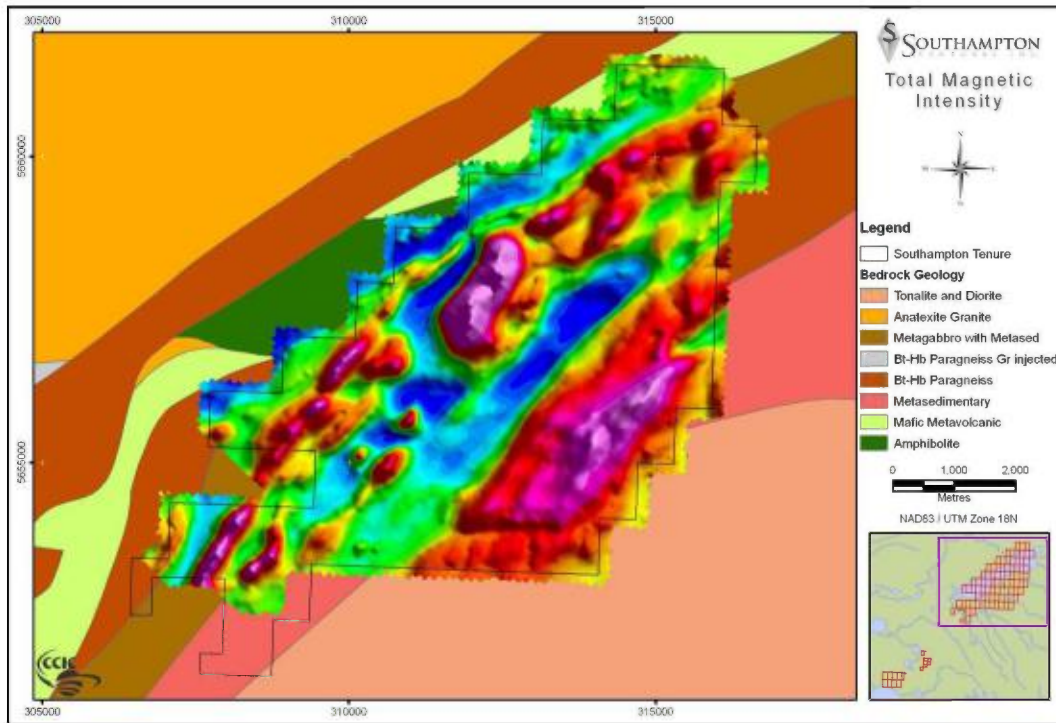


Figure 10-8. Horden Northeast Block: Total Magnetic Intensity

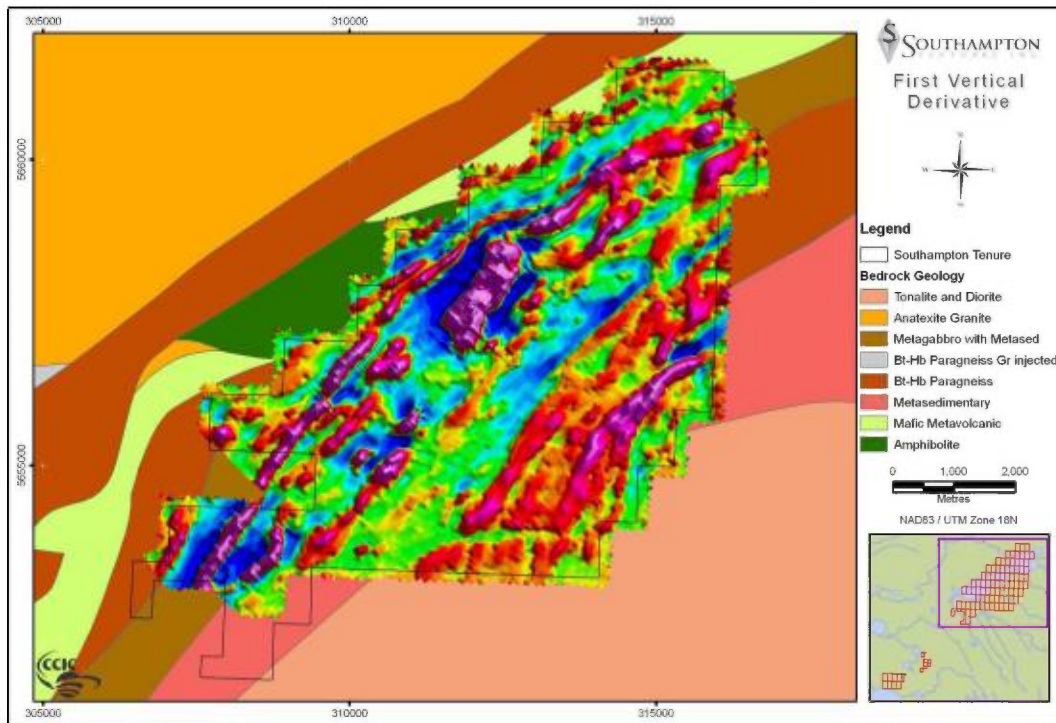


Figure 10-9. Horden Northeast Block: First Vertical Derivative

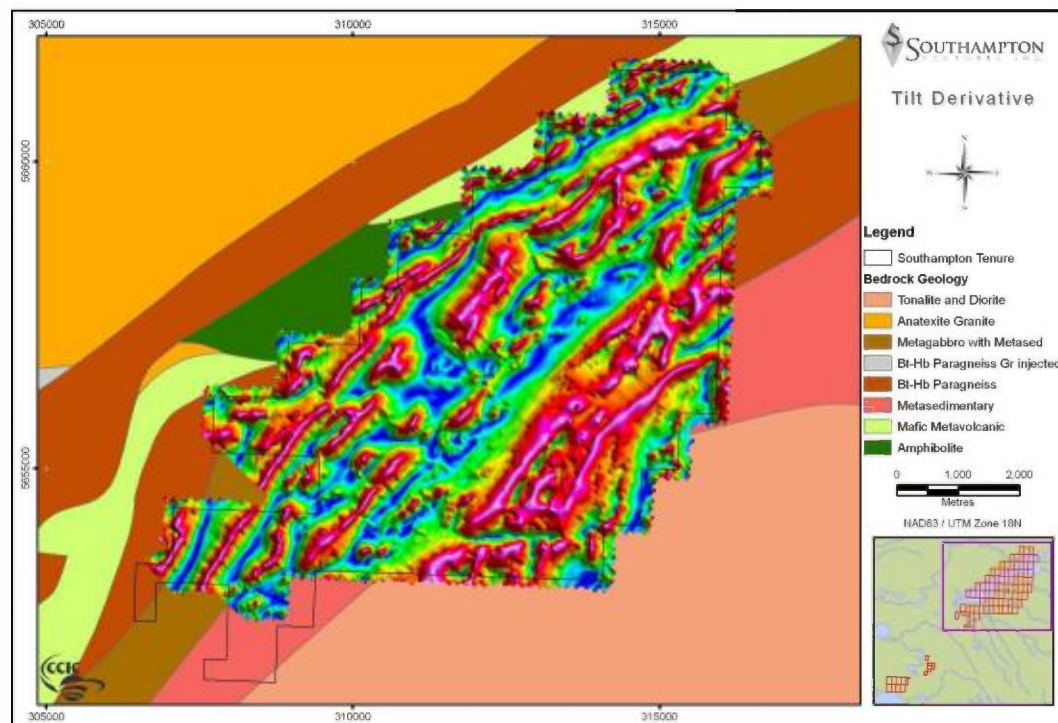


Figure 10-10. Horden Northeast Block: Tilt Derivative – Highlights structural trends

Six Targets in the Northeast Block

The following six targets were selected from the northeast block and may represent a grouping of several conductive targets. A summary is listed below and a table is provided in Appendix 3 – Conductive Targets. In addition, a full conductive anomaly list is provided in Appendix 3. The anomalies are highlighted by yellow arrows.

1. HDN_0002: This target is a conductive through all time channels and coincident with a linear magnetic feature in the northernmost portion of the survey (Figure 10-11). It is dipping up to 45° SE although portions appear to have a vertical response. The causative body is relatively shallow. This magnetic/conductive anomaly is traceable for 5.4 km, with similar strike to the Horden Lake deposit. It occurs within an area of mapped mafic metavolcanic rocks, amphibolites, and metagabbro. Overall this target has similar geophysical response to the Horden Lake deposit and potentially favourable geology. This target lies on, and extends past the north-eastern boundary of the claim block. This target should be followed up by ground checking or drilling.

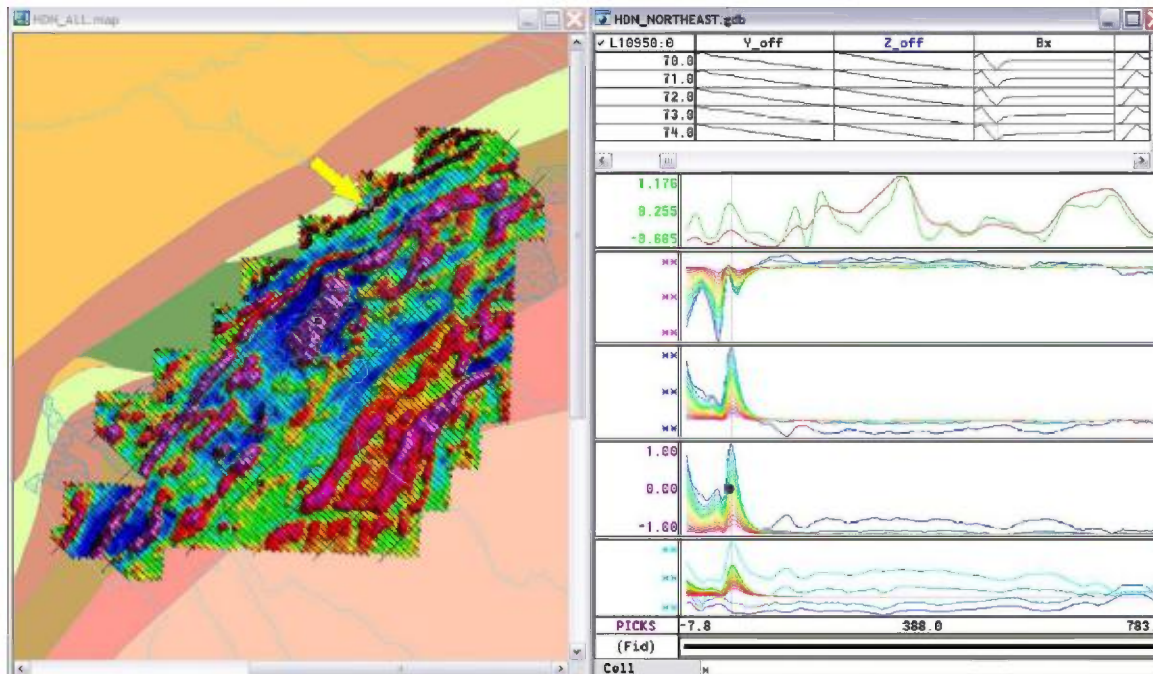


Figure 10-11. Horden Northeast Block: target HDN_0002

2. HDN_0003 and HDN_0004: These targets are magnetite-rich, strike-limited and lie in the SW portion of a large lake (Figures 10-12, 10-13). Both are conductive into late times, but less conductive than HDN_0002. Both are coincident with a strike-limited linear magnetic feature. There is a very subtle 'B-field' response indicating a lower conductivity than the Horden Lake deposit. The profiles indicate a spherical causative body with shallow depth.

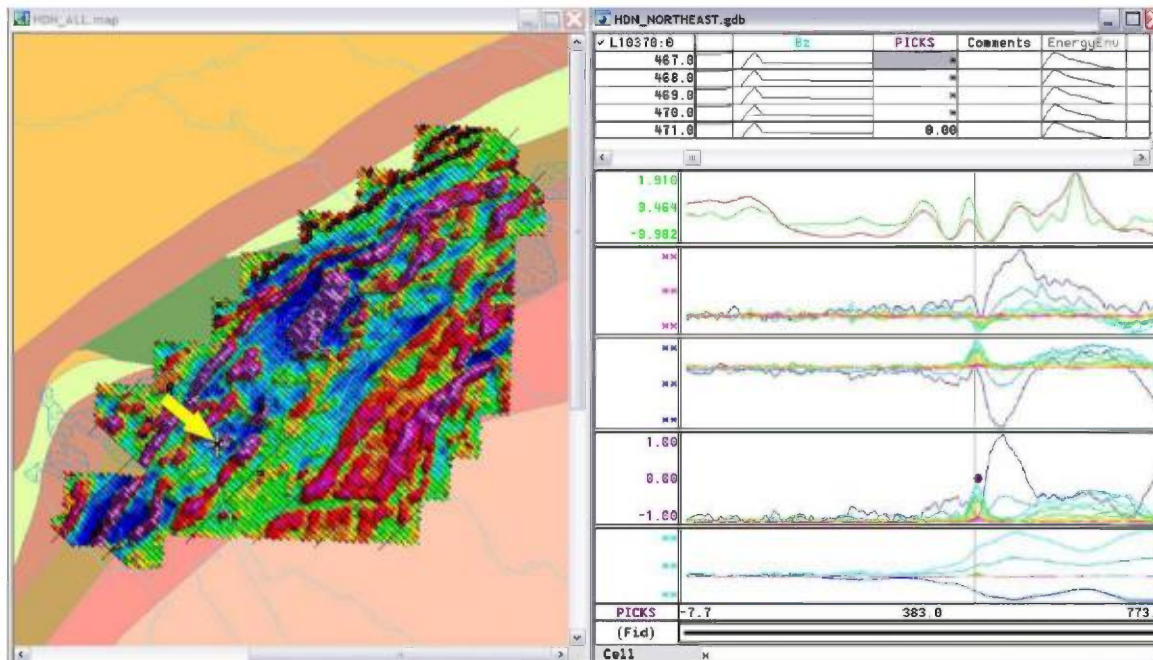


Figure 10-12. Horden Northeast Block: target HDN_0003

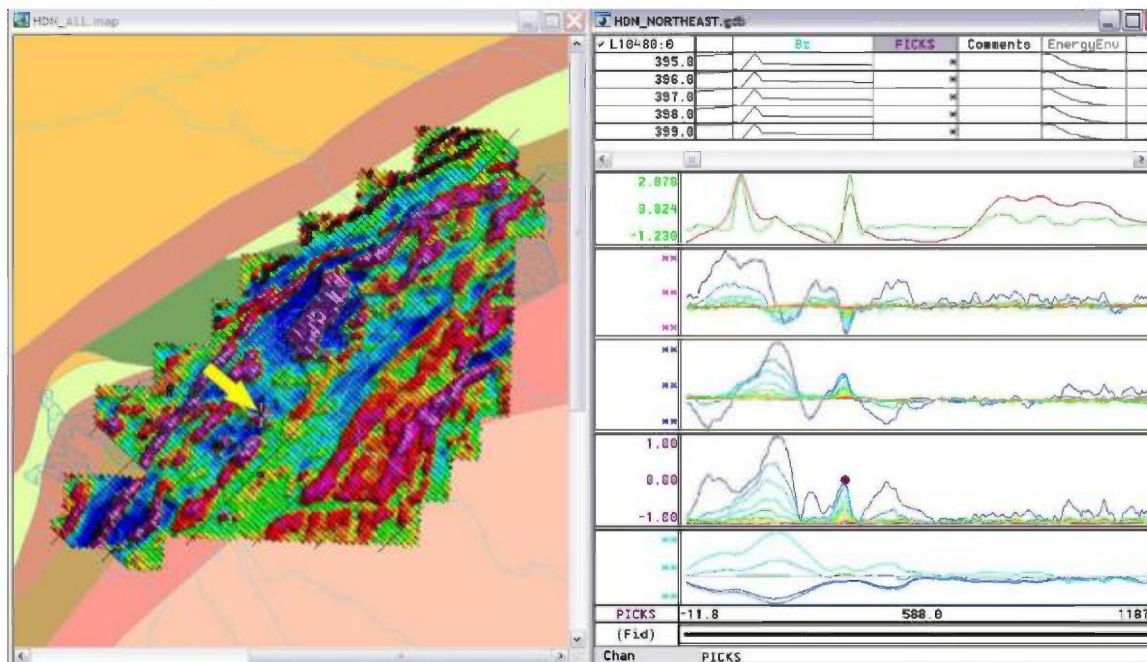


Figure 10-13. Horden Northeast Block: target HDN_0004

3. HDN_0005. This coincident magnetic and conductive anomaly in the southwest portion of the survey block (Figure 10-14). There is a small but distinct 'B-field' response. The target appears to be dipping slightly to the SE. This target appears to be on land and lies within the potentially mineralized contact zone between the metagabbro and metasediments. However, the conductive association is confined to the south-westernmost lines of the survey block and is not observed on the north-eastern survey lines. It is recommended to ground check this target.

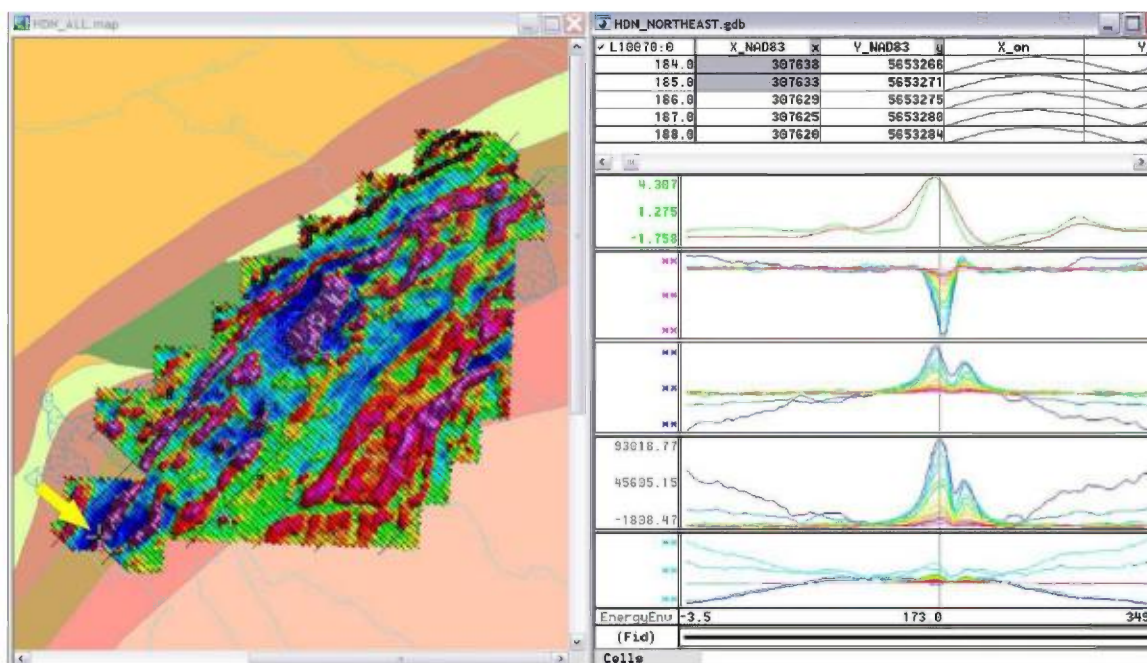


Figure 10-14. Horden Northeast Block: target HDN_0005



4. HDN_0006. This is a large, spherical, contained, high amplitude magnetic anomaly of approximately 2000nT, occurring within the NE trending lake (Figure 10-15). It appears to be fault bounded to the SW and NE, and slightly rotated with respect to the other linear trends in the magnetic data; possibly representing an amalgamation of previous linear magnetic units. It has a broad, coincident conductive response in early times but does not have a B-field response. This anomaly therefore does not conform to the high conductivities typically associated with massive sulphides. The conductive response could be due to an accumulation of lake-bottom sediments.

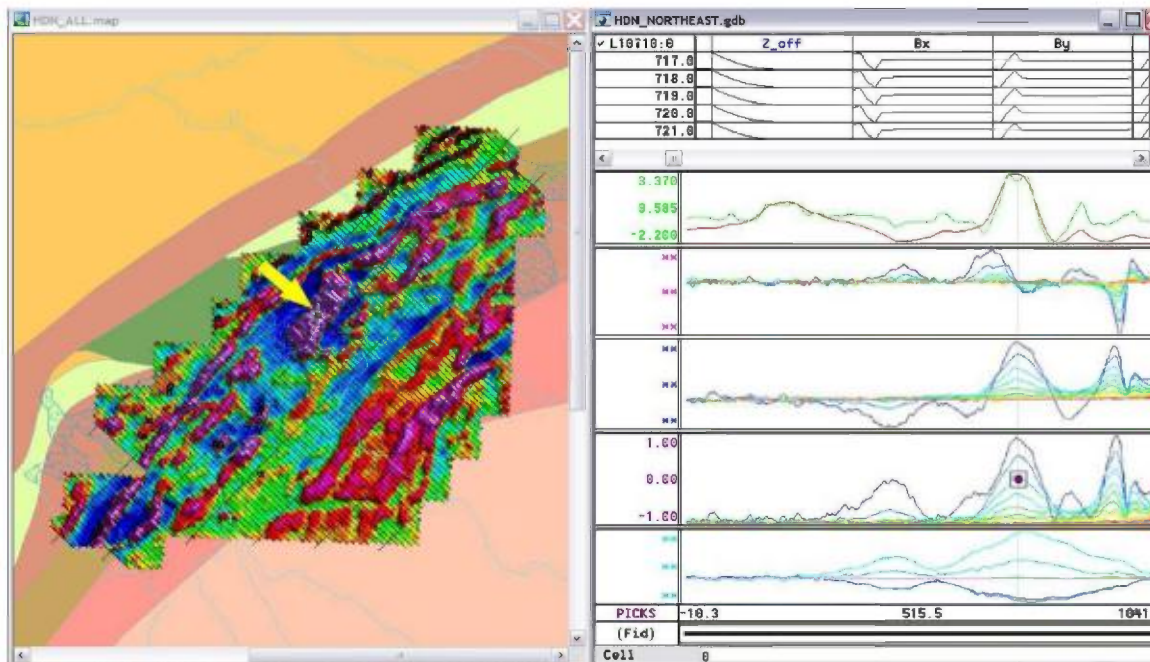


Figure 10-15. Horden Northeast Block: target HDN_0006



5. HDN_0007. This target represents a few isolated conductive responses in the SW portion of the lake (Figure 10-16). The response is broad in early times, likely due to the presence of lake bottom sediments. The profiles indicate a sub-vertical dip to the SE. However, the appearance of a small, coincident 'B-field' response is encouraging. There is a very subtle magnetic association with this target, however the magnetic mineralization itself is difficult to constrain spatially. The anomaly is located within the interpreted ultramafic metagabbro unit and could be associated with magnetite bearing rocks. Further examination of the historic drill logs intersecting this unit is recommended.

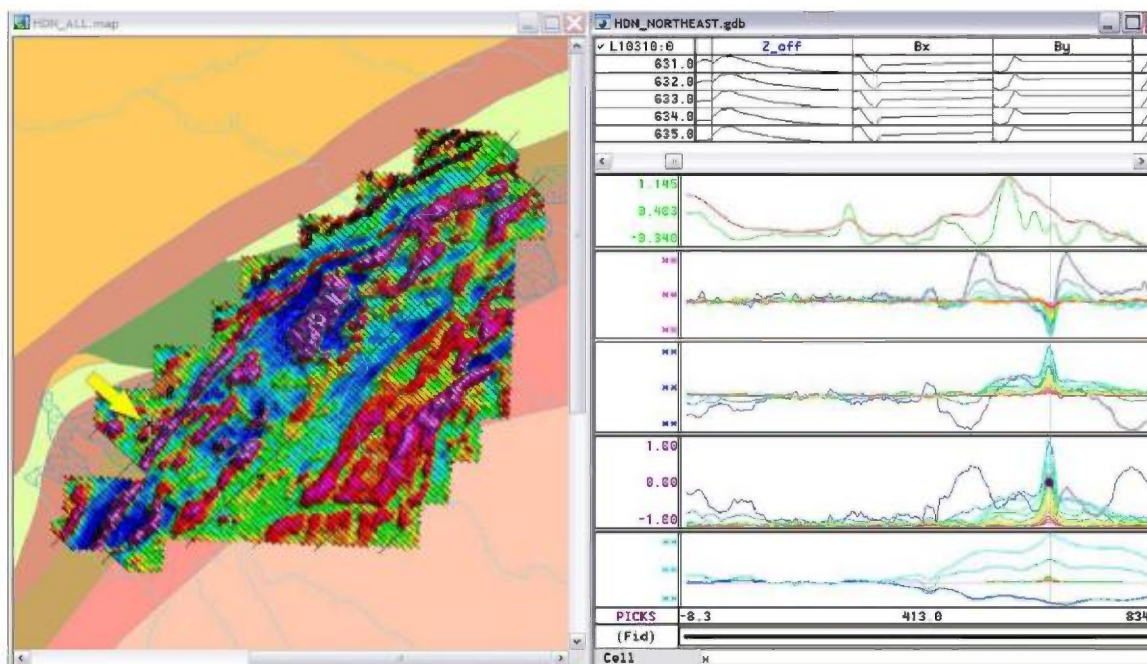


Figure 10-16. Horden Northeast Block: target HDN_0007



Southwest Block

A smaller claim block northeast of the Horden Lake was flown, consisting of 63 line-km covering 0.63 km². This block covers a large mapped unit of quartzite. The survey block covers four main geologic units. Shown in Figure 10-17, from NW to SE they are:

1. Bt-Hb paragneiss +/- muscovite pegmatite
2. Quartzite
3. Tonalite and diorite
4. Metagabbro with metasediments injected with muscovite pegmatite

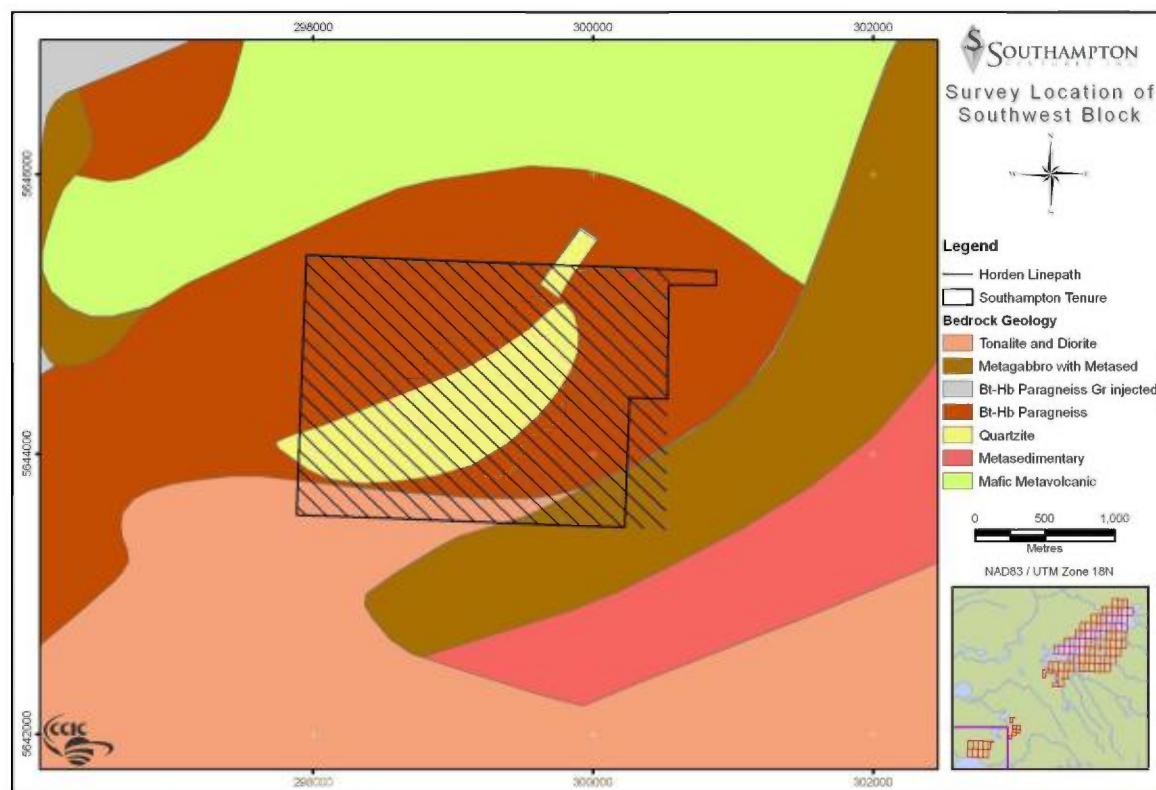


Figure 10-17. Survey Location of Southwest Block and bedrock geology

The magnetic data shows good correlation to the contacts of the quartzite unit. The kink in the magnetic data indicates folding, and on a more regional scale, the ultramafic units can be seen in the regional geology as a possible extension of this fold (Figure 10-18). This folding could have resulted in thickening of the mineralized portion of the ultramafic sill making this area more prospective.

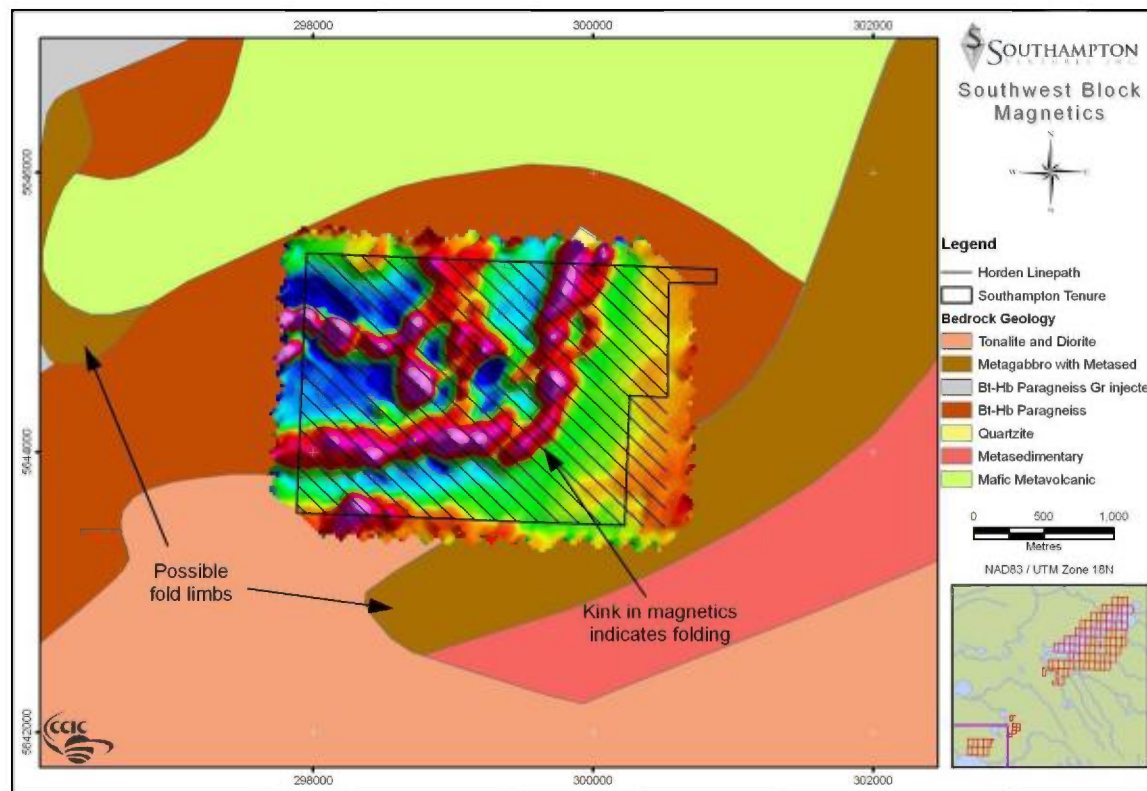


Figure 10-18. Horden Southwest Block: Magnetics and Regional Geology

In general, it was difficult to select isolated magnetic/conductive targets because almost all of the magnetic features in this block have a strong conductive association. A representative target was selected, HDN_0008, and is shown in Figure 10-19, highlighted with a yellow arrow. All conductive responses are presented in the Appendix 3. In general, this conductivity is not as sharp as the Horden Lake deposit in early times, but this may be reflecting the bedrock geology. The profiles generally display a spherical or flat-lying plate response; there is a significant dip NW noted around the contacts of the quartzite unit. More structural work is recommended on this area to understand the local faulting and identify the best areas to ground check and/or drill test.

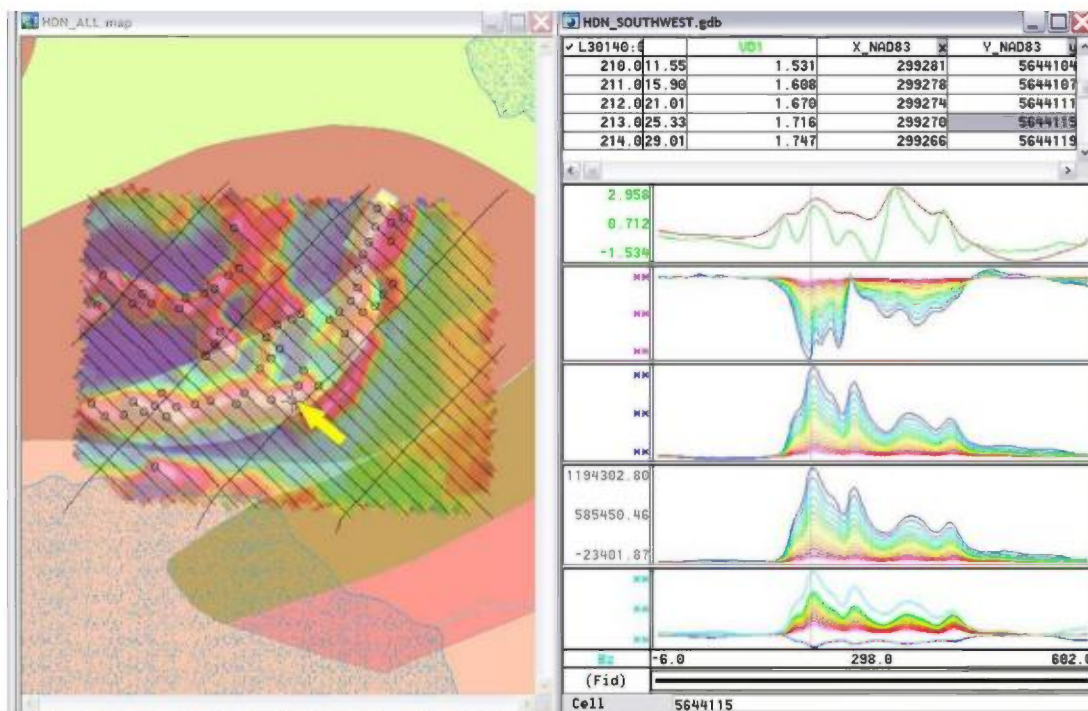


Figure 10-19. Horden Southwest Block: target HDN_0008
Typical response profiles for the block

11.0 DRILLING

During winter 2008, a total of 18,136 m of core was drilled in 73 drill holes as Phase I exploration on the Horden Lake Claims. Drilling started on January 26, 2008 and was completed on March 19, 2008. The drill holes were systematically spaced 50 m apart along gridlines perpendicular to the conductive zone recognized by INCO (Figures 11-1, 11-2 and 11-3, Table 11-1). The grid was positioned such that it overlapped with the historical drill holes. The objectives of Phase I Drilling were:

1. To establish NI43-101 compliant Indicated Resources on the near-surface component of the Horden Deposit with a pass of 50 m by 50 m pierce points;
2. To establish NI43-101 compliant Inferred Resources on the down-dip components on the Deposit with passes of 100 m by 100 m pierce points;

Drilling was completed by Benoit Diamond Drilling Ltd. of Val d'Or, Quebec. Three drill rigs were mobilized; two of them with a 6 cylinder Cummins engine rated at 250hp and one with a 6 cylinder Deutz engine rated at 175hp, 914 turbo (Figure 11-4). The drill holes were sunk through the overburden into fresh bedrock using HQ (63.5 mm) casing; thereafter NQ diameter core (47.6 mm) was drilled. Bedrock was typically intersected at a true depth of ~6 m to ~25 m. Average core recovery ranges from 90 % to 95 %.



Each drill rig was visited daily by the project geologist to monitor progress. Core was placed in wooden trays (NQ diameter) at the drill site and labelled with the hole ID number and box sequence number (e.g., HN-08-01 Box 1). The core boxes were collected daily with a custom designed sleigh pulled by an ATV. Thirty percent of the core was stored on the property near the camp (Figures 11-5a, 11-5b). The rest of the core was brought to Matagami for logging and sampling and is stored in a secure location (at 10 Nottaway Road, Matagami, Qc.; behind the “Meuble Marchand” warehouse).

Southampton Ventures applied for an intervention permit before any work could commence. This permit allowed Southampton Ventures to drill on its Horden Lake Deposit Property with minimal wood cutting and the restoration of a 24 km trail previously used by Inco.



Figure 11-1. Horden Lake Deposit (photo taken prior drilling program)

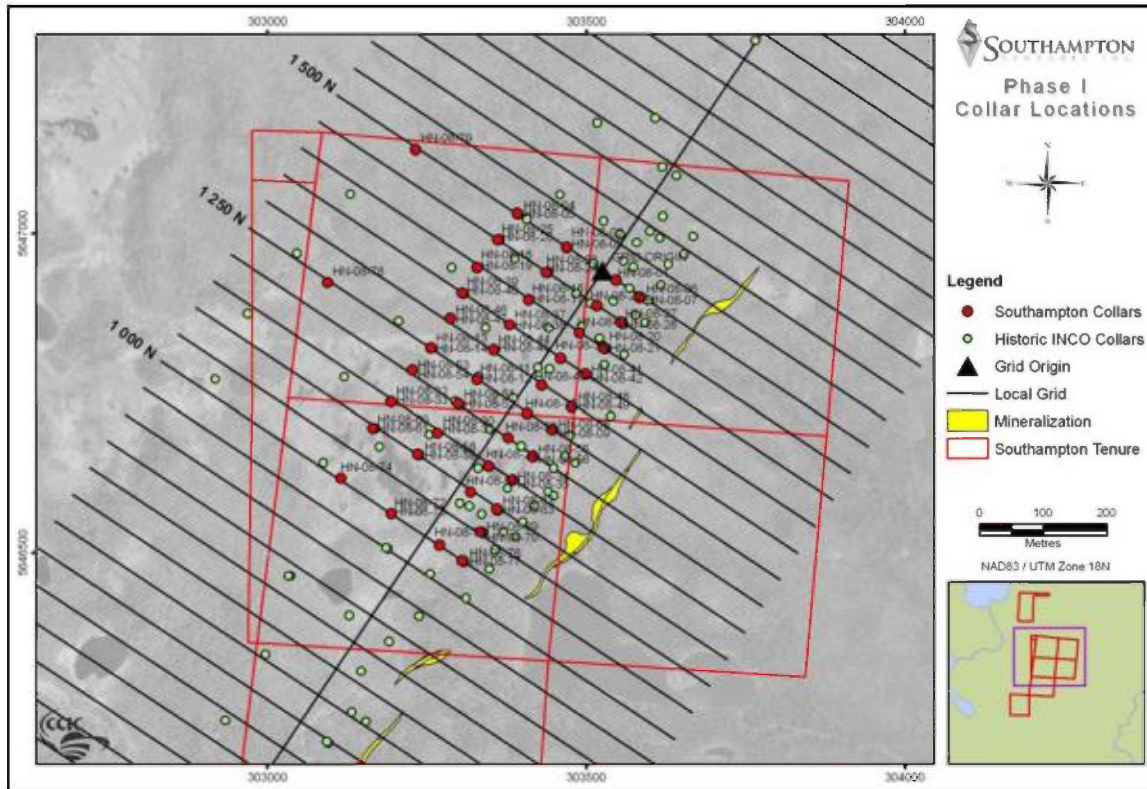


Figure 11-2. Historic and current drill hole locations at the Horden Lake Deposit.

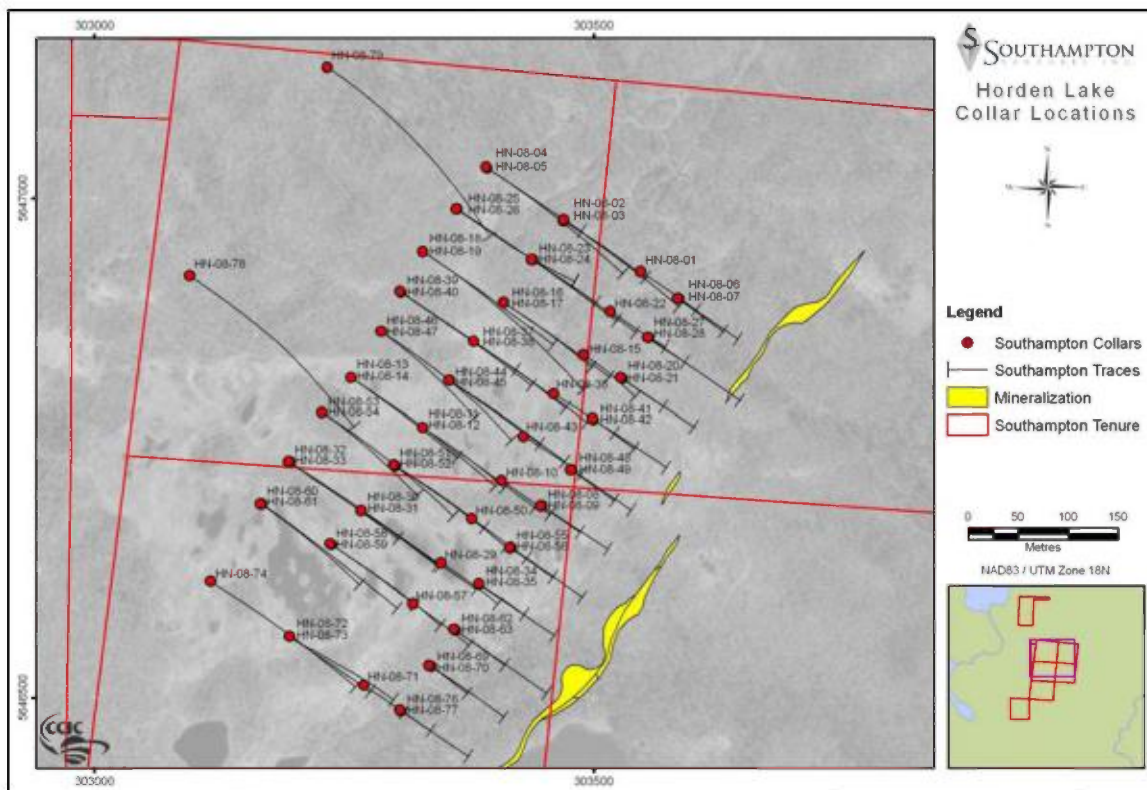


Figure 11-3. Drill collar locations with traces at the Horden Lake Deposit.



Table 11-1. Summary of drill hole locations and collaring information.

BHID	Easting	Northing	Elevation	Azimuth	Dip	Depth (m)	End Date
HN-08-01	303548	5646926	249.27	124	70	180	28/Jan/08
HN-08-02	303472	5646977	250.37	124	60	255	30/Jan/08
HN-08-03	303471	5646978	249.99	124	70	276	2/Feb/08
HN-08-04	303395	5647030	251.17	124	60	317	5/Feb/08
HN-08-05	303393	5647031	250.83	124	70	342	8/Feb/08
HN-08-06	303588	5646898	249.20	124	45	103	9/Feb/08
HN-08-07	303585	5646899	247.94	124	70	150	10/Feb/08
HN-08-08	303451	5646691	251.41	124	45	111	10/Feb/08
HN-08-09	303448	5646692	250.24	124	70	150	11/Feb/08
HN-08-10	303409	5646717	250.91	124	70	168	28/Jan/08
HN-08-11	303331	5646770	251.00	124	60	264	29/Jan/08
HN-08-12	303330	5646770	250.61	124	70	300	1/Feb/08
HN-08-13	303259	5646820	250.57	124	60	342	4/Feb/08
HN-08-14	303258	5646820	250.23	124	70	368	9/Feb/08
HN-08-15	303491	5646843	250.01	124	70	192	6/Feb/08
HN-08-16	303412	5646895	250.86	124	60	254	14/Feb/08
HN-08-17	303411	5646895	250.37	124	70	300	16/Feb/08
HN-08-18	303331	5646946	251.30	124	60	393	9/Feb/08
HN-08-19	303330	5646946	250.86	124	70	411	12/Feb/08
HN-08-20	303532	5646818	250.47	124	45	123	26/Feb/08
HN-08-21	303528	5646820	249.35	124	70	150	27/Feb/08
HN-08-22	303518	5646886	249.63	124	70	198	14/Feb/08
HN-08-23	303441	5646938	250.98	124	60	243	18/Feb/08
HN-08-24	303439	5646938	250.66	124	70	282	16/Feb/08
HN-08-25	303365	5646989	251.18	124	60	322	21/Feb/08
HN-08-26	303363	5646989	250.87	124	70	388	24/Feb/08
HN-08-27	303558	5646859	250.32	124	45	150	11/Feb/08
HN-08-28	303555	5646860	249.16	124	70	129	12/Feb/08
HN-08-29	303348	5646635	250.23	124	70	195	20/Feb/08
HN-08-30	303269	5646687	250.85	124	60	267	15/Feb/08
HN-08-31	303268	5646687	250.43	124	70	291	18/Feb/08
HN-08-32	303196	5646737	253.73	124	60	350	28/Feb/08
HN-08-33	303195	5646736	249.78	124	70	366	24/Feb/08
HN-08-34	303388	5646612	251.95	124	45	130	12/Feb/08
HN-08-35	303386	5646614	250.59	124	70	157	13/Feb/08
HN-08-36	303460	5646805	253.90	124	70	195	2/Mar/08
HN-08-37	303382	5646856	251.27	124	60	273	22/Feb/08
HN-08-38	303381	5646856	250.94	124	70	320	24/Feb/08
HN-08-39	303309	5646905	250.80	124	60	305	18/Feb/08
HN-08-40	303307	5646906	250.47	124	70	359	20/Feb/08
HN-08-41	303501	5646779	253.92	124	45	123	28/Feb/08



BHID	Easting	Northing	Elevation	Azimuth	Dip	Depth (m)	End Date
HN-08-42	303499	5646780	253.71	124	70	144	1/Mar/08
HN-08-43	303430	5646762	253.66	124	70	189	5/Mar/08
HN-08-44	303357	5646818	254.41	124	70	267	7/Mar/08
HN-08-45	303355	5646818	254.33	124	60	294	8/Mar/08
HN-08-46	303288	5646867	253.72	124	70	348	11/Mar/08
HN-08-47	303287	5646867	253.62	124	45	363	13/Mar/08
HN-08-48	303479	5646728	254.13	124	70	100	3/Mar/08
HN-08-49	303477	5646729	253.85	124	70	147	4/Mar/08
HN-08-50	303378	5646680	254.09	124	60	200	21/Mar/08
HN-08-51	303302	5646733	254.82	124	70	281	14/Mar/08
HN-08-52	303300	5646734	254.65	124	60	303	16/Mar/08
HN-08-53	303229	5646786	254.19	124	60	349	12/Mar/08
HN-08-54	303228	5646786	254.18	124	70	378	9/Mar/08
HN-08-55	303418	5646651	254.05	124	45	124	14/Mar/08
HN-08-56	303416	5646651	253.76	124	70	150	20/Mar/08
HN-08-57	303319	5646595	253.96	124	70	192	4/Mar/08
HN-08-58	303238	5646654	253.57	124	60	272	18/Mar/08
HN-08-59	303236	5646655	253.27	124	70	286	20/Mar/08
HN-08-60	303168	5646695	253.47	124	60	335	2/Mar/08
HN-08-61	303166	5646695	253.24	124	70	354	5/Mar/08
HN-08-62	303362	5646568	254.35	124	45	158	29/Feb/08
HN-08-63	303360	5646569	254.84	124	70	171	2/Mar/08
HN-08-69	303338	5646532	254.40	124	45	126	14/Mar/08
HN-08-70	303335	5646533	254.08	124	70	138	20/Mar/08
HN-08-71	303271	5646512	249.87	124	70	144	5/Mar/08
HN-08-72	303196	5646562	252.90	124	60	228	9/Mar/08
HN-08-73	303195	5646562	252.86	124	70	255	7/Mar/08
HN-08-74	303117	5646617	253.50	124	60	318	13/Mar/08
HN-08-76	303310	5646485	251.52	124	45	116	26/Feb/08
HN-08-77	303307	5646487	250.28	124	70	111	26/Feb/08
HN-08-78	303095	5646923	251.54	124	70	510	19/Mar/08
HN-08-79	303233	5647132	256.80	124	70	593	19/Mar/08

Drill holes HN-08-64, 65, 66, 67, 68, 75 were not drilled.

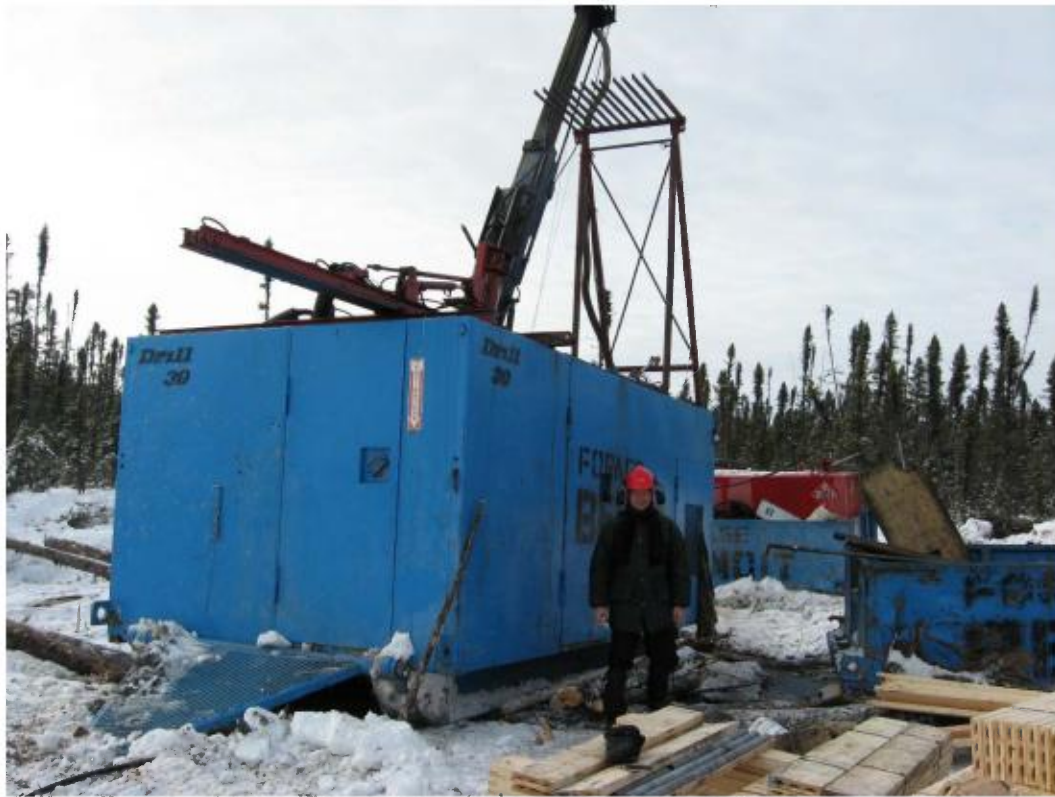


Figure 11-4. Benoit Drilling drill (6 cylinder Cummins engine with 250Hp)

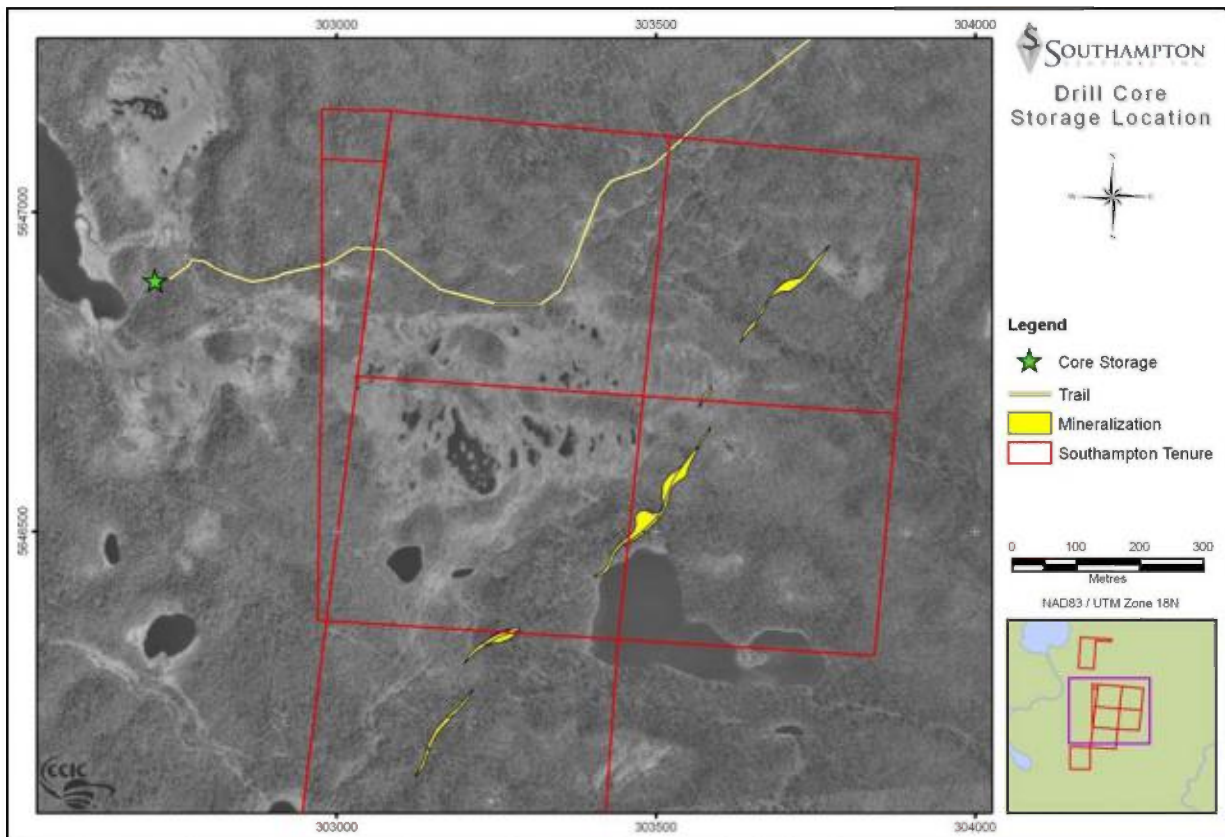


Figure 11-5a. Drill core storage location at the Horden Lake camp, winter 2008.

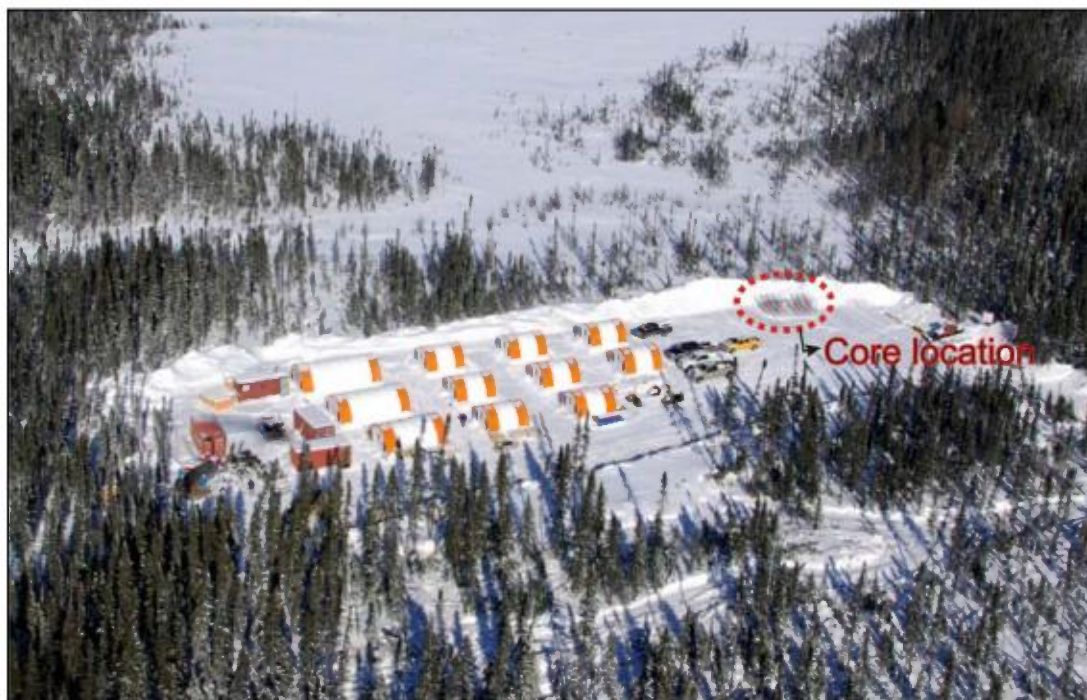


Figure 11-5b. Aerial view of core storage at Horden Lake, Quebec.
(Note that the core racks at the time of the picture were empty and the roof was not built yet)

11.1 Drill Results

Massive sulfide was intersected in several drill holes. Table 11-2 is the length-weighted average grades for the ten best assays from the 2008 drilling program and Appendix 5 is a summary of length-weighted average grades for selected drill holes. The certified assays for all of the samples from the 2008 drilling program are in Appendix 8. An Access database with the drill hole logs and assays are also in Appendix 8. Some of the highlights from the 2008 drilling program include 12.00 m of 2.28 %Cu and 0.34 %Ni in HN-08-29 and 11.25 m of 2.01 %Cu and 0.11 %Ni from HN-08-30.

Table 11-2. The ten best assays from the 2008 drilling program at Horden Lake Deposit

Drill Hole	From (m)	To (m)	Drill Length (m)*	Cu (%)	Ni (%)	g Au/t	g Pt/t	g Pd/t	true thickness (%)
HN-08-04	227.00	235.00	8.00	0.440	0.030	1.450	0.020	0.120	93%
HN-08-07	102.71	108.00	5.29	2.094	0.749	0.226	0.117	0.578	85%
HN-08-29	158.00	170.00	12.00	2.283	0.336	0.224	0.033	0.127	85%
HN-08-30	243.75	255.00	11.25	2.012	0.113	0.433	0.084	0.205	92%
HN-08-43	150.04	157.00	6.96	1.347	0.605	0.173	0.202	0.460	84%
HN-08-44	244.00	250.50	6.50	1.648	0.498	0.263	0.119	0.600	93%
HN-08-55	97.35	103.20	5.85	2.837	0.313	0.379	0.054	0.164	99%
HN-08-58	243.50	253.00	9.50	1.961	0.217	0.526	0.067	0.245	91%
HN-08-61	323.00	332.00	9.00	2.917	0.253	0.466	0.067	0.182	84%
HN-08-61	325.00	329.00	4.00	4.278	0.301	0.413	0.047	0.168	84%



Based on a 55° dip for the ore body, the true thickness is an average of 88% of the sample length (n=12,348). The true thickness ranges from 80-100% of the sample length. Drill hole cross sections are given in Appendix 6.

12.0 SAMPLING METHOD AND APPROACH

Drill core samples were collected from mineralized intervals and from 10 to 15 m of the hanging and footwall of the mineralized section. Outside of the mineralized zone, samples were collected where it was deemed appropriate (e.g. quartz veins). The core was split in half using a mechanical core splitter. Typical sample intervals range from 0.5 to 2.0 m, but smaller intervals were sampled where appropriate. In total, 6551 samples were collected. Relevant descriptive information, including drill hole number, sample interval and a characterization of the mineralization, was recorded using the DHLogger software. Understanding of the geometry of the mineralized zone being explored is at an early stage and sample lengths are not intended to reflect the true lengths or widths of the mineralized zones.

13.0 SAMPLE SECURITY, PREPARATION AND ANALYSES

13.1 Sample Security

All samples were tagged using pre-printed sample tags with a unique 5 digit number and bagged in individual plastic bags. Ten individual bags were collected in rice bags prior to shipping. Sampling was conducted by CCIC geologists Luc Harnois, Jean-Yves Landry, Benoit-Michel Saumur, Philip Dumont and Heidi Tomes.

At Horden Lake, the core was stored in the drill camp which was a very remote location. Only the drilling company staff and the CCIC staff had access to it. Initially, logging and sampling occurred at the Horden Lake Camp. After completion of the drilling program, core for 49 drill holes was transported by a freight company (Rona Inc.) to Matagami where logging and sampling was completed. The core for the other 24 drill holes remained on racks in Horden Lake Camp. Prior to transport, it was cross piled and each pile was packaged with shrink wrap. In Matagami, some of the core was not stored in a locked location (due to lack of room), but each time CCIC geologists checked the packaging and the wired boxes and each time they had been untouched. The samples were transported from Matagami to the assay laboratory, Laboratoire Expert, in Noranda by bus (Expedibus) and by a private freight company (Rona Inc.).

13.2 Sample Preparation and Analysis

Samples were prepared and analyzed using conventional methods by Laboratoire Expert Inc. ("the lab") of Rouyn-Noranda, Quebec, an accredited laboratory (CANMET Proficiency Testing Program - Mineral Analysis Laboratories (PTP-MAL) Certification, Program year 2006-2007;



<http://www.nrcan.gc.ca/mms/canmet-mtb/mtbaccréditation-e.htm>). PTP-MAL is a means by which a mineral analysis laboratory can assess its performance for one or more analytical methods independently of internal quality control. Moreover, participation in the program is obligatory if a laboratory is to be accredited or is to retain its accreditation for mineral analysis activities by Standards Council of Canada (SCC) to ISO/IEC 17025 "General requirements for the competence of calibration and testing laboratories."

Samples were also analyzed by Activation Laboratories (Actlabs) of Ancaster, Ontario, an ISO accredited laboratory. Actlabs' Quality System is accredited to international quality standards through International Organization for Standardization /International Electrotechnical Commission (ISO/IEC) 17025 (ISO/IEC 17025 includes ISO 9001 and ISO 9002 specifications) with CAN-P-1758 (Forensics) and CAN-P-1579 (Mineral Analysis) for specific registered tests by the SCC. Actlabs also has CANMET Proficiency Testing Program - Mineral Analysis Laboratories (PTP-MAL) Certification.

Laboratoire Expert completed lead fire assay with a DCP (direct coupled plasma) finish of the precious metals with 5 ppb detection limit for Pt, Pd and Au, and Activation Laboratories completed aqua regia digestion and ICP/OES analysis for the base-metals (Cu, Ni, and 29 other elements) with 1 ppm detection limit for both Cu and Ni. Sample preparation and analysis procedures include the following steps:

- a) Samples are dried and crushed to 90 % -- 10 mesh
- b) Crushed samples are split to provide a 300-gram representative sample using a Jones splitter
- c) 300-gram samples are then pulverized to a minimum of 90% - 200 mesh.
- d) 30 grams of the pulverized samples are analyzed by standard fire assay with an DCP (direct coupled plasma) finish for Au, Pt and Pd
- e) A second sample aliquot is digested using aqua regia and analyzed by ICP for Cu, Ni and 29 additional elements
- f) The results are reported in percent, parts per million (ppm) and parts per billion (ppb)
- g) Samples with values exceeding the detection limit (i.e., Cu and Ni) were re-analyzed using the appropriate technique

Sample rejects and pulps were initially stored by Laboratoire Expert but the pulps were subsequently shipped to Sudbury, Ontario, where they are stored in a secure location.

Five percent of the sample database (141 coarse reject samples) and 17 QC samples were sent to Accurassay Laboratories for analysis as a quality control check. Accurassay Laboratories is accredited for Au, Pt, Pd, Cu, Ni and Co under ISO/IEC Guideline 17025. The accreditation process covers all aspects of the assay laboratory practices from start to finish. It examines the Standard Operating Procedures



(SOP's), the Quality Control and Quality Assurance Mandates (QC/QA) and necessitates successful participation in the PTP-MAL performance testing program to maintain accreditation. Accurassay completed aqua regia digestion and ICP analysis for Cu and Ni with 1 ppm detection limit for both.

14.0 DATA VERIFICATION

14.1 Site Visit

The Property was visited by Luc Harnois, Ph.D. and P.Geo., from 31st January to 28th February, 2008 and from 11th March to 22th March, 2008. Dr. Harnois is a member in good standing of l'Ordre des Géologues du Québec ("OGQ") (member #478) and Association of Professional Geoscientists of Ontario ("APGO") (member #1355). No claims posts were actually seen in the field by Luc Harnois who relied essentially on GPS data for drill holes location and property boundary. The visit involved discussions with various drillers, local workers, other CCIC geologists and a senior Maxibor/Reflex technician. The site visit included the following work and observations:

- Core logging and sampling of 21 diamond drill holes totalling 5.2 km. Some of the core logging was done in Matagami from 26th March to 19th April 2008. The mineralization occurs almost in all of these drill holes and is present as a 0.5-2.0 m thick massive to semi-massive zone of pyrite+chalcopyrite+pyrrhotite.
- Locating several drill holes on the grid.
- The azimuth and dip of these drill holes was verified before drilling began.

14.2 Quality Assurance

Quality Assurance is the assembly of all planned and systematic actions necessary to provide adequate confidence that a product will satisfy given quality requirements (Simón, 2008). It is the prevention of future problems by planning before samples are assayed.

Laboratoire Expert completes routine quality assurance and control through the process of sample preparation and analysis. For example, one standard and one blank are added to each batch of 28 samples. In addition, CCIC implemented and consistently followed a QA/QC program which involved the placement of blanks or certified reference materials (CRM) to the sample stream by CCIC geologists. CRM were selected based on the anticipated Cu, Ni, Au and PGE grades of the Horden Lake Deposit and were purchased from Accurassay Laboratories (Thunder Bay; APG3, SMG1, blanks; Table 4-1) and Analytical Solutions Ltd. (Toronto; OREAS_14P; Table 4-1). CRMs APG3 and SMG1 from Accurassay were vacuum-sealed in packets containing 50g of material. CRM OREAS_14P from Analytical Solutions was packaged into 100g lots sealed under N₂ in laminated foil pouches. Certificate of Analyses for these three standards are given in Appendix 7.



Table 14-1. Certified Reference Materials.

Provider	CRM	Au (ppm)	Pt (ppm)	Pd (ppm)	Cu (ppm)	Ni (ppm)	Co (ppm)
Accurassay	APG3	0.531	0.504	8.531	1616	1649	63
	Standard deviation	0.051	0.033	0.406	105	190	5
Accurassay	SMG1	0.247	0.427	4.956	1489	1446	57
	Standard deviation	0.027	0.037	0.271	101	173	6
Analytical Solutions	OREAS14P	0.051	0.099	0.150	9970	20900	
	Standard deviation	0.006	0.008	0.008	270	700	

The reference materials (blanks and standards) are inserted into the sample stream in 10 % of instances. An example how the CRM are inserted is shown in Table 14-2.

Table 14-2. Reference material placement in the sample stream.

Sample Number	Sample Type	Reference Material
999000	QA/QC	blank
999001	Half core	-
999002	Half core	-
999003	Half core	-
999004	Half core	-
999005	Half core	-
999006	Half core	-
999007	Half core	-
999008	Half core	-
999009	Half core	-
999010	QA/QC	Low grade Cu-Ni_PGE
999011	Half core	-
999012	Half core	-
999013	Half core	-
999014	Half core	-
999015	Half core	-
999016	Half core	-
999017	Half core	-
999018	Half core	-
999019	Half core	-
999020	QA/QC	High-grade Cu-Ni-PGE
999021	Half core	-
999022	Half core	-
999023	Half core	-
999024	Half core	-
999025	Half core	-
999026	Half core	-
999027	Half core	-
999028	Half core	-
999029	Half core	-
999030	QA/QC	Blank



Pulp duplicate assaying was conducted by the laboratory and duplicate assaying of samples was initiated by CCIC.

Data files are transmitted via a secure network connection between Laboratoire Expert and CCIC and are also received as hard copy certificates. The digital files are merged with sample location and description data. Ten percent of analytical data on assay certificates were checked against the data in the merged sheets (database) and no errors were found. A total of 730 assays, which included drill core, standards and blanks, were checked. Four to five assays were randomly checked from each assay certificate.

14.3 Quality Control

Quality Control is a set of regular activities or techniques whose purpose is to ensure that all quality requirements are being met; in order to achieve this purpose, processes are monitored and performance problems are solved (Simón, 2008). Quality control is the detection of problems after the samples are assayed.

14.3.1 QC of procedures used in the core shack

Drilling began on the Horden Lake project on January 28, 2008. Drilling for the project was completed March 21, 2008, logging was completed April 18, 2008 and the last samples were shipped to the lab for assay April 30, 2008. Three geologists were logging holes for three drills running simultaneously for the project. The holes were an average of 240 m deep and took 2-3 days to drill each hole. The geologists quickly became overwhelmed and could not keep up with the drills. Some holes were logged quickly while other holes were logged one month and four drill holes (HN-08-06, 07, 08 and 14) were logged 2 months after they were drilled. The drill hole numbering sequence does not correspond to order that holes were drilled because three drills were running simultaneously and drill holes were not logged in order that the drilling was completed. Some samples were shipped to the lab quickly after they were logged while other samples were shipped one month after they were logged and 2 holes (HN-08-19 and 29) were shipped 2 months after they were logged. Samples were not shipped to the lab in the same order that they were logged. While these issues have *no* affect on the quality of the assays received from the lab, they created disorder in the database and added to delays in issuing press releases.

A total of 6551 drill core samples were collected and submitted to the lab for assaying. A total of 222 samples of APG3 (low grade standard), 132 samples of OREAS_14P (high grade standard), 64 samples of SMG1 (low grade standard) and 310 samples of blanks were used as QC samples. The QC samples consist of 10% of the total samples submitted to the lab. At the beginning of the drilling program (i.e., samples shipped Feb. 14 and 19), the insertion of the QC samples followed the pattern of blank, APG3, blank, APG3, etc. No high grade standard (OREAS_14P) was used for the first 7 holes shipped, as likely the core shack did not have any. For samples from 52 holes shipped between March 2 and April 25, the insertion pattern was blank, APG3, blank, APG3, OREAS_14P, blank, APG3, blank, etc. For samples



from 14 holes shipped on April 30, the insertion pattern was the same as previously used, except APG3 was replaced with SMG1, so the pattern is: blank, SMG1, blank, SMG1, OREAS_14P, blank, SMG1, blank, etc. The insertion patterns were consistently followed except for 4 holes shipped on March 2. These 4 holes still had QC standards and blanks inserted but followed a random pattern. CCIC is satisfied that sufficient QC samples were inserted into the sampling stream to be able to be used to monitor QC issues.

Sometimes standards and blanks were mislabelled in the core shack. The known ideal values of the standards and blanks were used to correctly name the standards and blanks. Geologists in the core shack believed that they were using standard APG4 and thus they labelled numerous samples "APG4". The standard APG4 was not used in this drilling program and the majority of the samples labelled "APG4" were actually SMG1. All mislabelling problems were fixed in the current version of the database.

14.3.2 QC of procedures used by analytical labs

Slow turnaround time

The last samples for the Horden Lake project were shipped to the lab for assay April 30, 2008 and the last assay results were received 6 months later on Oct. 28, 2008. This delay was caused by 1) the lab was overwhelmed by the volume of samples and many samples were analyzed 2-4 months after they were shipped to the lab, 2) the lab analyzed samples out of order of the shipping date, 3) CCIC did not receive results files for fire assay, ICP and overruns analyses which the lab thought that they had sent to us, and 4) delay by the lab in responding to QC complaints. These delays caused delays in completion of assays for individual holes and issuing of press releases by Southampton. These delays *do not* affect the quality of the assay results from the lab.

The order that the lab received samples did not correspond to the numbering sequence of the drill holes. Samples were shipped to the lab with 10 individually packaged samples in one rice bag. The lab did not assay the samples in the order that they were received and this resulted in numerous holes with 1 rice bag of 10 samples being assayed 2 months after the rest of the hole was complete.

Once the fire and ICP assays were completed the lab sent the results to CCIC by e-mail. The majority of the samples were analyzed by fire assay between May 20 and July 30, and the majority of samples were analyzed by ICP between June 25 and Sept. 15. The lab claimed to have sent 2 fire assay results files and 4 ICP results files, but CCIC never received them. CCIC did not notice that these files were missing until September 2008. On Sept. 18, the lab resent to the 2 missing fire assay files (22869.xls and 22870.xls) which contained 194 analyses, and the 4 missing ICP files (Folder 22770.xls, Folder 22772.xls, Folder 22773.xls and Folder 22791.xls) which contained 169 analyses. CCIC identified that an additional ICP results file was missing in October and the lab sent this missing file (Folder 22923.xls)



which included 96 assays on Oct. 8. Again, the lab claimed to have previously sent the ICP results file, but CCIC never received it.

On Oct. 16, 2008 a complete list of 84 missing ICP overrun samples were compiled by CCIC and sent to the lab. The original ICP assays for these missing overruns were completed between June 25 and Oct. 8. Results for 74 of the missing overruns were sent to CCIC on Oct. 17. Obviously, the results for these 74 missing overruns were not received by CCIC at the time of their analysis. The remaining 10 missing overruns were analyzed and the results were sent to CCIC on Oct. 22 and 28.

CCIC sent lists of samples with QC complaints to the lab on July 23, 2008 (14 samples), July 29 (13 samples), Sept. 4 (41 samples) and Oct. 3 (20 samples) for a total of 89 samples with QC complaints. QC complaints include failed standards, failed blanks and bad duplicates. The lab did not respond to any of these complaints. In November, response to these complaints became urgent because they were needed for resource calculations. CCIC reduced the total number of samples with QC complaints to 17 by dropping those that were greater than 10 m away from mineralization and blank failures that were less than 10% of the previous sample as these samples are not critical to the resource calculation. The lab began processing these complaints on Nov. 10. The assay results for these complaints were received by CCIC Dec. 4, 5 and 10. These assays were updated in the resource model.

14.3.3 QC of standards

CCIC completed a strict quality assurance program. If values of the certified reference materials exceeded two standard deviations, a warning was issued; if the value returned from the laboratory exceeded three standard deviations, the analysis was rejected and the laboratory was asked to repeat the analysis. The classification of QC samples as OK, warning, failed is also explained in section 3.0 and illustrated in figure 2.1.

APG3 standard

APG3 is a low grade Cu (1616 ppm) and Ni (1649 ppm) standard with high grade Pd (8.531 ppm) and moderate grade Au (0.531 ppm) and Pt (0.504 ppm). Values in () are certified values determined by Accurassay Laboratories. For the certification of the standard, the Au, Pt and Pd were pre-concentrated by fire assay techniques and analyzed using atomic absorption spectroscopy. The Cu, Ni and Co were prepared by using aqua regia decomposition and analyzed using atomic absorption spectroscopy. The recommended values for all elements for the standard are the unweighted means of 164 analytical determinations by Accurassay. A round robin analysis method was not used to determine the certified values. The certificate of analysis for APG3 is given in Appendix 7.



APG3 was analyzed for Au, Pt, Pd by Laboratoire Expert as a blind standard. The Au and Pt assays both had 99% OK, 0% warnings, and 1% failed and the Pd assays had 98% OK, 0% warnings and 2% failed based on 220 analyses. The three failures for Au and Pt, also failed for Pd because the samples were mixed up with blanks (drill hole HN-08-13, sample 23380, hole HN-08-18, sample 25890 and hole HN-08-28, sample 28220). The Cu and Ni values for these three samples are OK, so the mix up did not occur with the samples analyzed by ICP. The Pd assays had two additional failures because the Pd values were too low for drill hole HN-08-47, sample 27590 and hole HN-08-34, sample 23950. These failures were reported to the lab. The low failure rate for Au, Pt and Pd is acceptable and most of the failures were due to sample mix ups by the lab.

The control charts for Au, Pt and Pd for APG3 show good precision for all three elements as the assays cluster around an average value (Figure 14-1). The Pt assays cluster around the certified value for APG3, so it also has good accuracy. The Pd and Au assays show a bias of being systematically low, but still in the OK range.

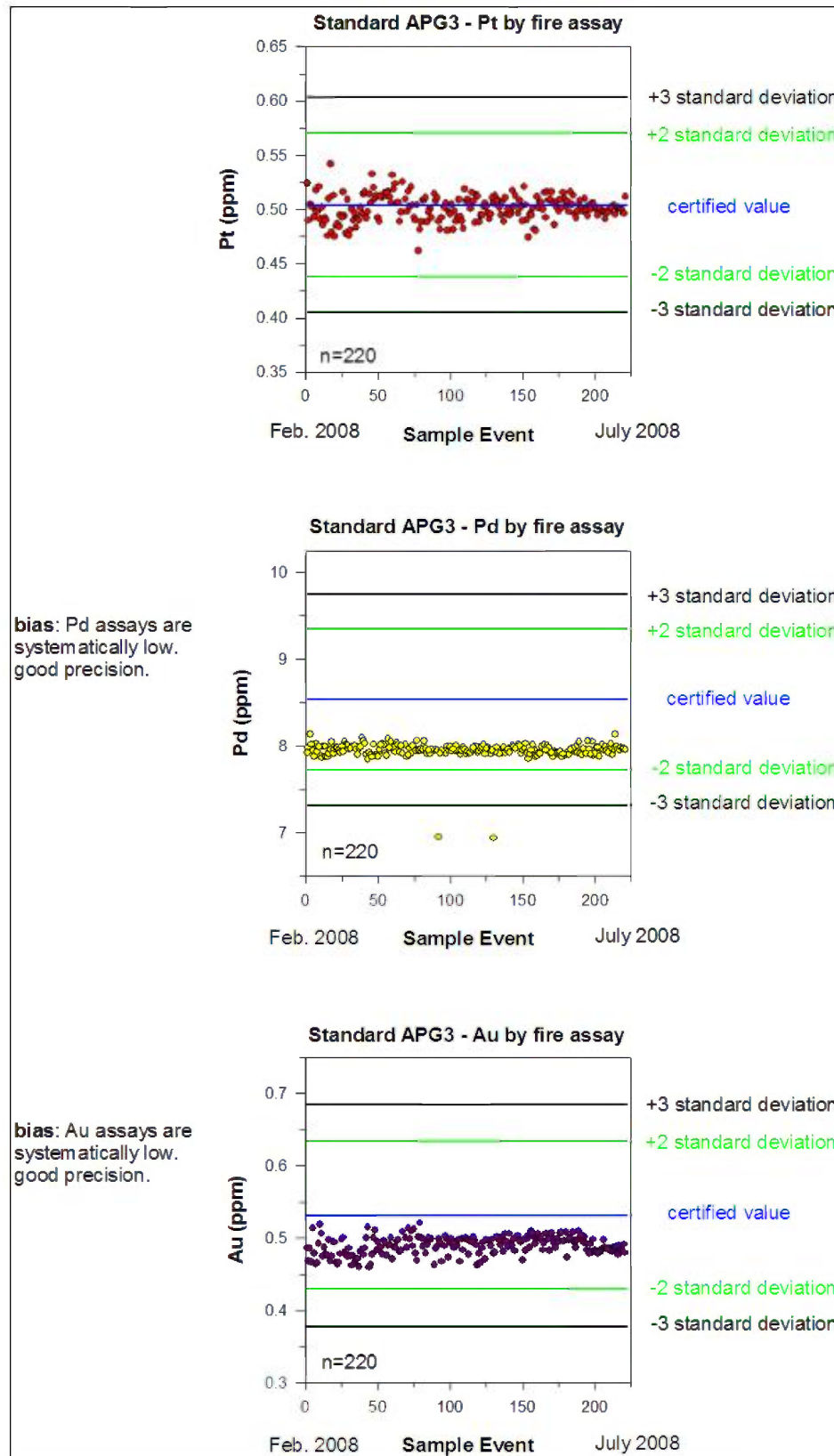


Figure 14-1. Control chart for Pt, Pd and Au for APG3.



APG3 was analyzed for Cu and Ni by Actlabs as a blind standard. The Cu assays were 87% OK, 10% warning and 3% failed based on 220 analyses. Three of the six failures for Cu were minor and the remaining three were reported to the lab. Drill hole HN-08-18, sample 25810 had blank values for Cu and Ni, but the fire assay results for Au, Pt and Pd were OK. This is likely a sample mix up by Actlabs, but not by Laboratoire Expert. Drill hole HN-08-12, sample 23650 failed for Cu because the analyzed value was too high, but Ni, Au, Pt and Pd were all OK. This is also likely a sample mix up with a drill core sample. Drill hole HN-08-47, sample 27640 failed for Cu because the analyzed value was too high (32400 ppm). This sample also failed for Ni, but Au, Pt and Pd were all OK. This is likely a sample mix up with drill core. The low failure rate for APG3 is acceptable and the failures seem to be related to sample mix ups by Actlabs.

The control chart for Cu for APG3 shows a bias (Figure 14-2). The Cu assays are systematically low between March and May 20, but still in the OK range. The Cu assays are even lower between May 20 and June 23 with three failures. The Cu assays are OK and cluster around the certified value after June 23 which indicates good accuracy after this date.

The Ni assays for APG3 were 99% OK, 0% warning and 1% failed based on 220 analyses. The three failures were reported to the lab. Drill hole HN-08-28, sample 28220 failed because the Ni value was too low, but the Cu value was OK. Hole HN-08-47, sample 27640 failed because the Ni value was too high (3070 ppm). The Cu assay also failed because it was too high too (see above). Likely, this sample was mixed up with drill core for the ICP analyses. The Au, Pt and Pd for this sample, all analyzed by fire assay, are OK. Hole HN-08-18, sample 25810 failed because the standard was mixed up with a blank by Actlabs for both Ni and Cu (see above), but the Au, Pt and Pd are all OK, so the sample was not mixed up by Laboratoire Expert. The low failure rate for APG3 is acceptable, and the three failures are all likely due to sample mix ups by Actlabs.

The control chart for Ni shows a bias (Figure 14-2). The Ni assays are systematically low between March and May 20, but still in the OK range. The assays improve between May 29 and June 23 and the assays cluster around the certified value after June 23 which indicates good accuracy after this date.

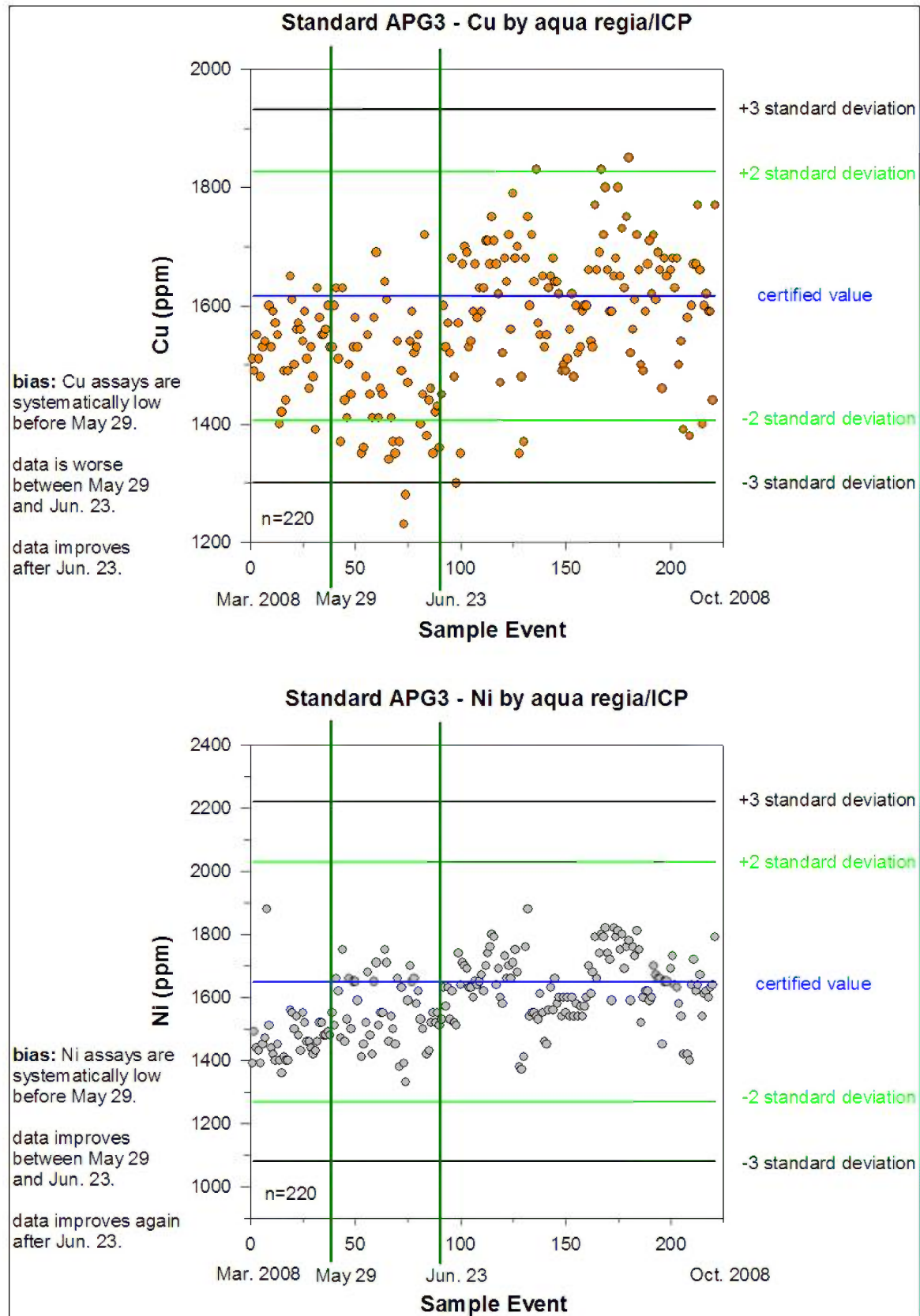


Figure 14-2. Control chart for Cu and Ni for APG3.



SMG1 standard

SMG1 is a low grade Cu (1489 ppm) and Ni (1446 ppm) standard with high grade Pd (4.956 ppm) and moderate grade Au (0.247 ppm) and Pt (0.427 ppm). Values in () are certified values determined by Accurassay Laboratories. For the certification of the standard, the Au, Pt and Pd were pre-concentrated by fire assay techniques and analyzed using atomic absorption spectroscopy. The Cu, Ni and Co were prepared using aqua regia decomposition and analyzed using atomic absorption spectroscopy. The recommended values for all elements for the standard are the unweighted means of 250 analytical determinations by Accurassay. A round robin analysis method was not used to determine the certified values. The certificate of analysis for SMG1 is given in Appendix 7.

SMG1 was analyzed for Au, Pt, Pd by Laboratoire Expert as a blind standard. The Au assays were 100% OK, and the Pt assays were 98% OK and 2% warnings (only 1 sample). The control chart for SMG1 for Au and Pt show good precision, as the assays cluster around an average value (Figure 14-3). The control charts also show a bias as the Au and Pt assays are systematically low, but still in the OK range. CCIC is satisfied with the Au and Pt analyses for SMG1.

The Pd assays for SMG1 were 98% failures, 0% warning and 2% OK. The control chart for Pd shows that the assays have good precision as they cluster around an average value. The Pd assays show a bias of being systematically too low with an average of 3.833 ppm Pd whereas the certified value is 4.956 ppm Pd. The failure rate for Pd for SMG1 is unacceptable and needs to be explained.

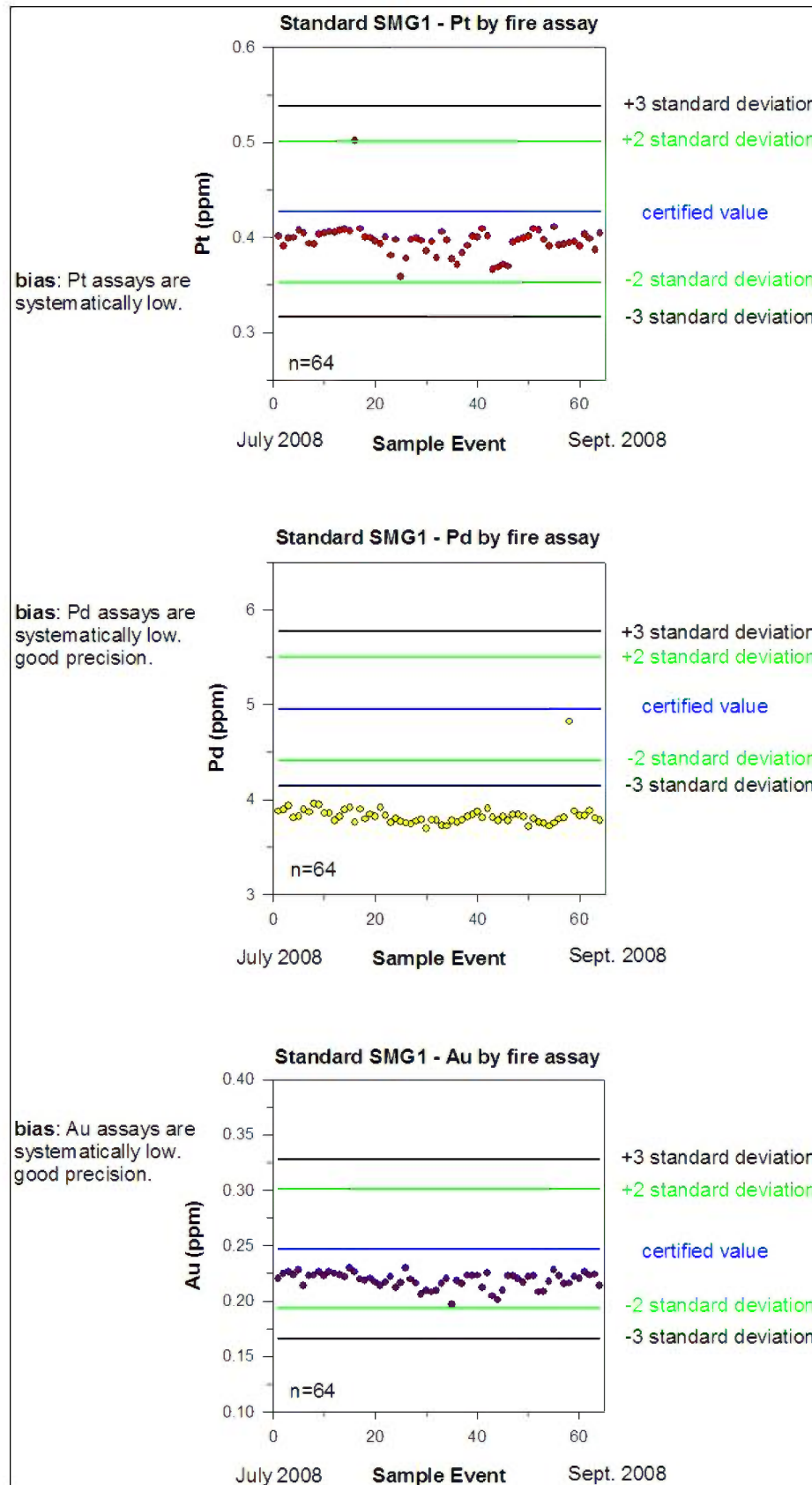


Figure 14-3. Control chart for Pt, Pd and Au for SMG1.



Samples of SMG1 were sent to additional labs (Acme in Vancouver and SGS in Toronto) to check if the high Pd failure rate was due to the standard itself or the analytical techniques used by Laboratoire Expert. Acme analyzed SMG1 by fire assay fusion and ICP-ES finish on a 30 g sample. SGS analyzed SMG1 by lead collection fire assay with an ICP-AES finish on 30 g sample. The Pd assays from SGS and Acme were close to the certified value and plot in the OK range (Table 14-1 and Figure 14-4).

Table 14-3. A comparison of SMG1 analyses by 4 different labs.

SGS-Toronto	Pt_ppm	Pd_ppm	Au_ppm	comment
average	0.403	4.860	0.230	all OK
count of analyses	3	3	3	
Acme	Pt_ppm	Pd_ppm	Au_ppm	comment
average	0.440	4.720	0.258	all OK
count of analyses	4	4	4	
Laboratoire Expert	Pt_ppm	Pd_ppm	Au_ppm	comment
average	0.397	3.833	0.219	Pd - 98% failures, 2% OK
count of analyses	64	64	64	Pt, Au - OK
Accurassay	Pt_ppm	Pd_ppm	Au_ppm	
certified value	0.427	4.956	0.247	

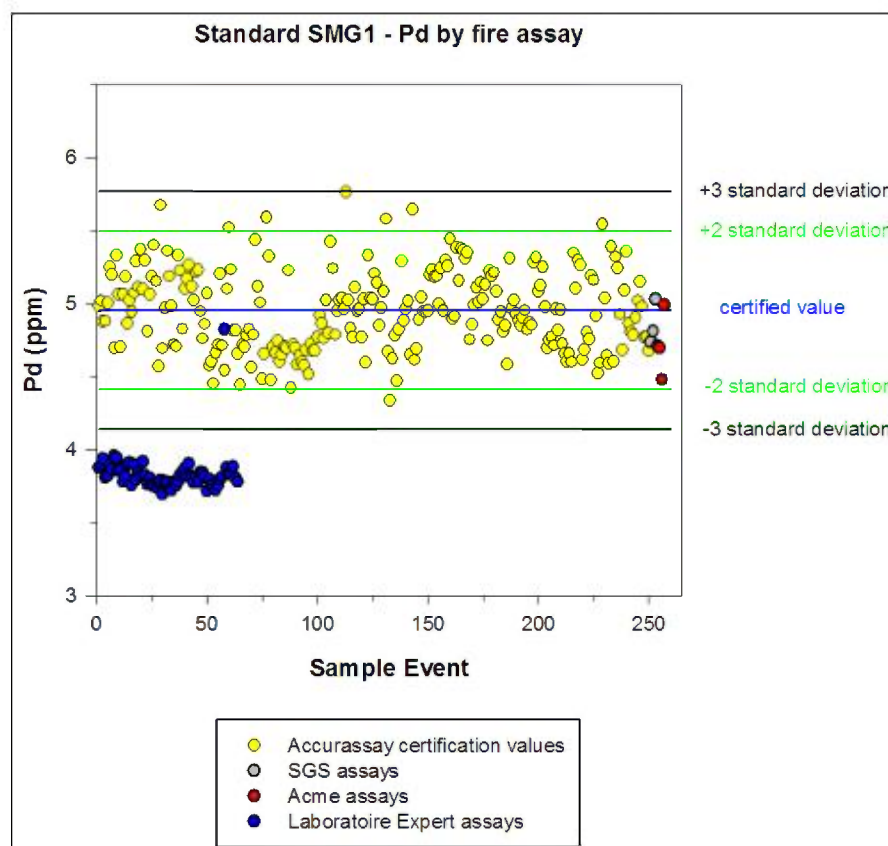


Figure 14-4. A comparison of Pd analyses from 4 different labs.



Accurassay informed CCIC that the source for SMG1 was North American Palladium Ltd's Lac Des Iles Pd mine (G. Kajmowicz, personal communication, Nov. 2008). According to Lac Des Iles' deposit model for the Roby Zone, chromite crystallized with olivine and high temperature platinum-group minerals as cumulates early in the formation of the deposit (NI 43-101 report, Clow, et al., 2007). Ontario Geological Survey Open File Report 5746 states "small seams and disseminated chromite is found in the biotite-plagioclase rocks" in the Southern Ultramafic Center (Edgar and Sweeny, 1991). Ontario Geological Survey Miscellaneous Paper 126 states "minor chromite is reported to occur in the ultramafic rocks and a thin 3 mm chromitite seam was observed by the field party in the northern part of Lac Des Iles" (Sutcliffe and Sweeny 1985).

Chromite is has a high melting temperature (1850-2200°C) and is highly resistant to dissolution. Most North American laboratories fuse samples at 1100-1150°C (Smee, 2008); therefore, chromite is not fused by fire assay techniques. The average Cr content in SMG1 analyzed using aqua regia digestion and ICP/OES analysis by Actlabs is 117 ppm (n=63) and the average Cr content in SMG1 analyzed by ICP by SGS is 128 ppm (n=3). The low Cr content in SMG1 suggests that chromite is not present in the standard, but chromite is resistant to dissolution and is not dissolved by aqua regia digestion. If some of the Pd in the SMG1 standard is locked within the chromite which is not dissolved by aqua regia, then it is reasonable that the Pd assays from Laboratoire Expert will be systematically low.

SMG1 was analyzed for Cu and Ni by Actlabs as a blind standard. The Cu assays were 84% OK, 16% warning and 0% failed based on 63 analyses and the Ni assays were 100% OK. The control chart for Cu shows a spread of data within the OK range and a bias to being systematically low (Figure 14-5). The control chart for Ni shows good precision, as the Ni assays cluster around an average value, but they also show a bias of being systematically low within the OK range (Figure 14-5). CCIC is satisfied with the Cu and Ni analyses for SMG1.

CCIC concludes that the systematically low assays especially for Pd, but also for Pt, Au, Cu and Ni for SMG1 standard is due to the presence of chromite within the standard which was not fused by Laboratoire Expert's fire assay lab and not dissolved by Actlabs' aqua regia digestion during sample preparation of this standard and the drill core assays analyzed with this standard should be of good quality as they do not contain chromite.

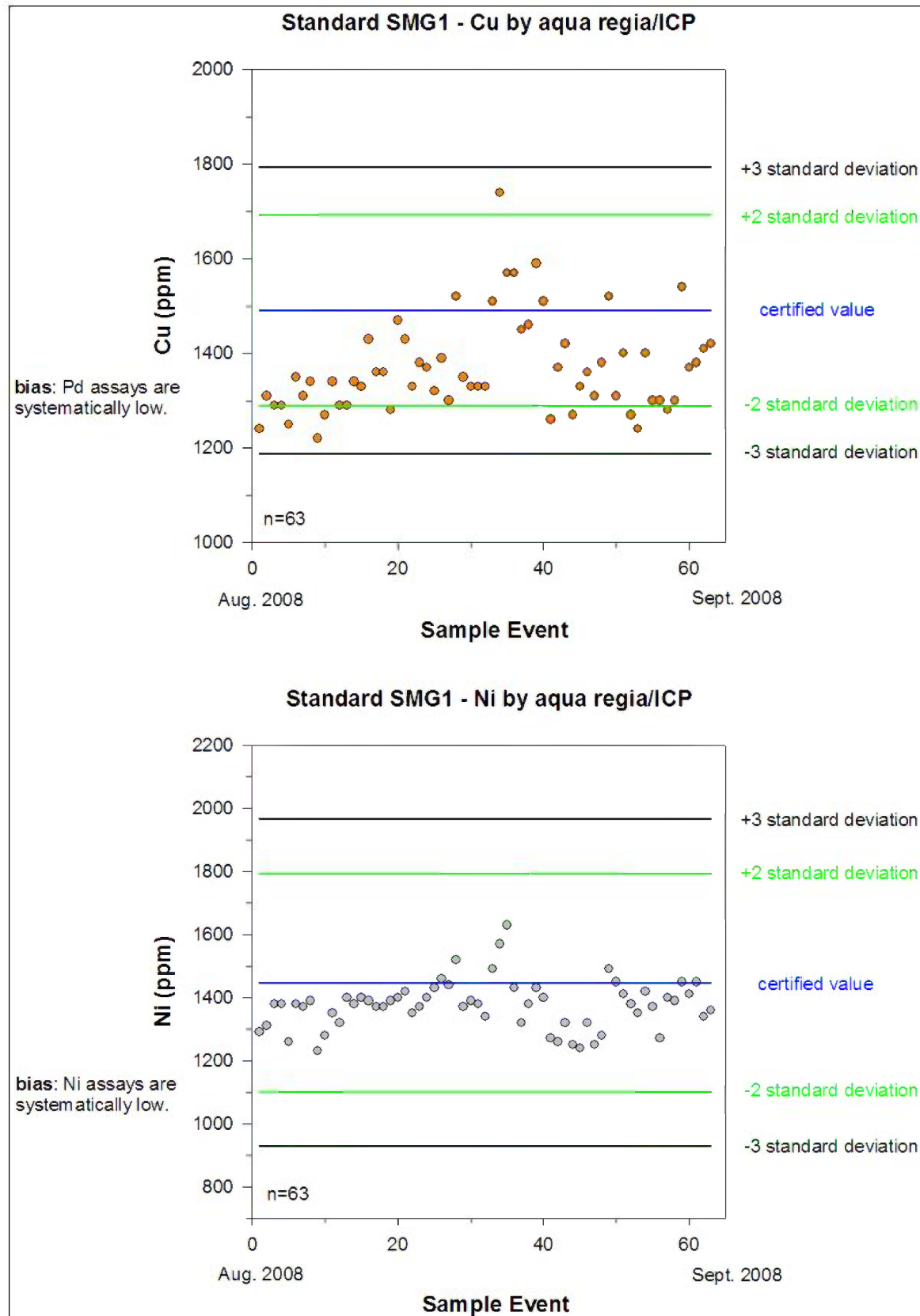


Figure 14-5. Control chart for Cu and Ni for SMG1.



OREAS_14P standard

OREAS_14P is a high grade Cu (9970 ppm, 0.997 %) and Ni (20900 ppm, 2.09%) standard with low grade Pd (0.15 ppm), Au (0.051 ppm) and Pt (0.099 ppm). Values in () are certified values reported by Analytical Solutions Ltd. Fifteen analytical laboratories participated in the round robin analytical program to certify the standard. The intent of the certification program was to obtain total concentration values for the elements of interest hence four acid (including HF) digest, borate or alkali fusion methods were employed for the lithophile elements and base metals in combination with an ICP-OES, ICP-MS or AAS reading method. For Au, and the platinum-group elements (PGE's) lead fire assay and nickel sulphide fire assay with ICP-MS reading method was used. No statistical bias was observed between either method for Pt and Pd and results were therefore combined for treatment, while for Au under-reporting was evident to varying degrees for nickel sulphide collection and these results have been discarded. The standard was sold to CCIC in 100g laminated foil packets labelled "OREAS 14P" in big large bold letters. To make it more anonymous to the lab, geologists in the core shack transferred the contents of each packet to ziplock bags. The certificate of analysis for OREAS_14P is given in Appendix 7.

OREAS_14P was analyzed for Au, Pt, and Pd by Laboratoire Expert as a blind standard. The Au and Pt assays both had 98% OK, 1% warnings, and 1% failed (1 failure each). Drill hole HN-08-52, sample 29150 had Au value for a blank, whereas Pt and Pd were OK. It appears that the Au measurement was mixed up with the previous sample. Drill hole HN-08-16, sample 24110 had a Pt value which was too high (0.132 ppm Pt), but Au is OK and Pd is a warning. This is likely a sample mix up by the lab, or the value for Pd (0.132 ppm) was accidentally recorded for Pt also. The control charts for Au and Pt show that the assays cluster around the certified value (Figure 14-6).

The Pd assays had 86% OK, 13% warning and 1% failed (1 failure). Hole HN-08-48, sample 25450 has a Pd value of 0.013 ppm which appears to be a misplaced decimal, as 0.13 ppm would be a warning. The control chart for Pd shows that the assays are bias by being systematically too low, but still in the OK range (Figure 14-6).

CCIC is satisfied with the Au, Pt and Pd assays for this standard, as the failures were minimal and were caused by sample mix up and errors in recording measurements for particular elements.

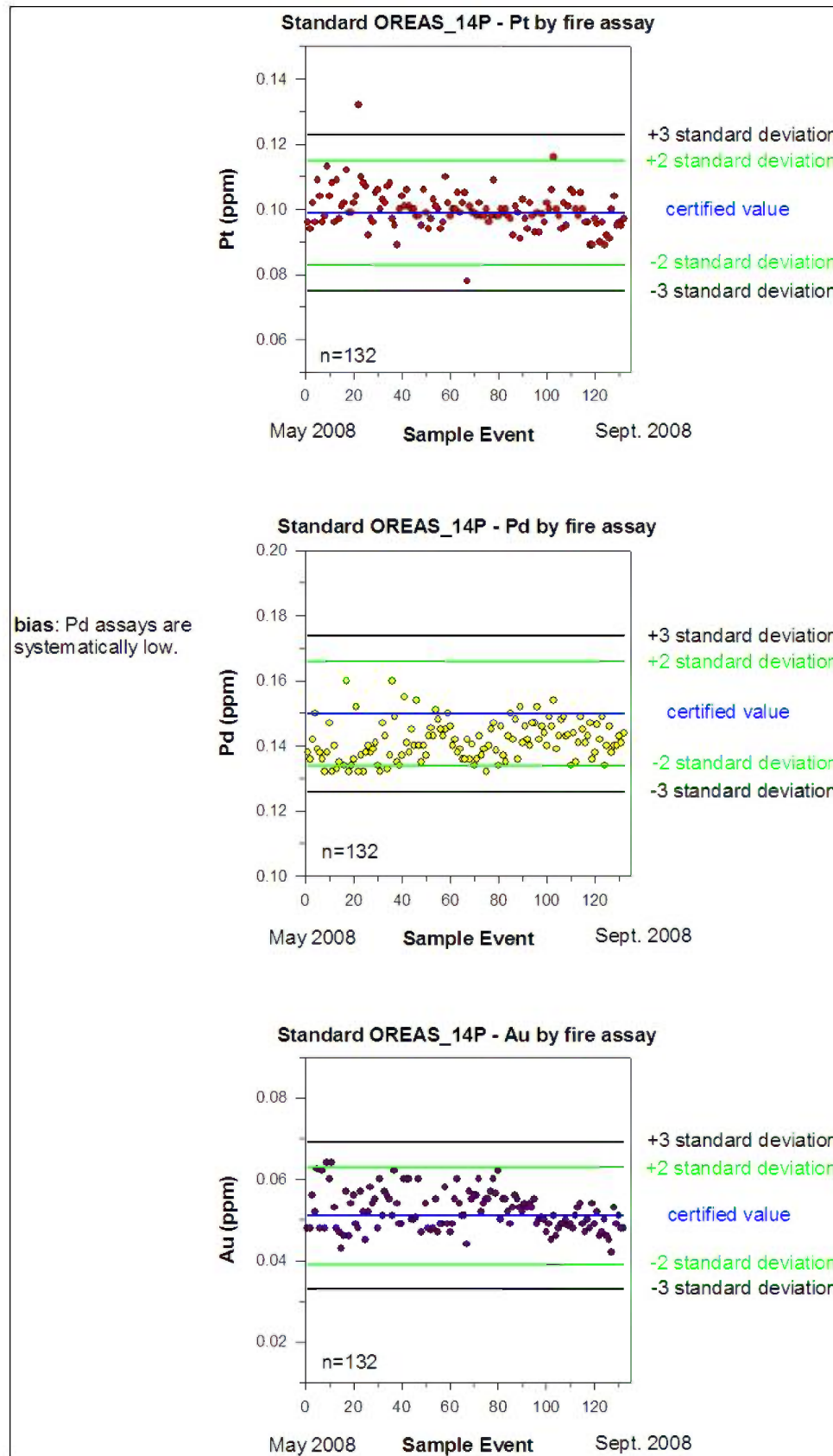


Figure 14-6. Control chart for Pt, Pd and Au for OREAS_14P.



OREAS_14P was analyzed for Cu and Ni by Actlabs as a blind standard using aqua regia digestion and ICP/OES analysis with 1 ppm detection limit for both Cu and Ni. The Cu assays had 1% OK, 8% warning and 92% failed. Three samples failed because they had blank values for Ni and Cu (drill hole HN-08-13, sample 23360; drill hole HN-08-78, sample 29000; drill hole HN-08-77, sample 28450), whereas the Au, Pt and Pd assays were OK. These samples were reported to the lab and will be re-analyzed. This is likely a sample mix up by Actlabs. The control chart for Cu shows that the Cu is biased by being systematically too low with an average of 8454 ppm Cu, whereas the certified value is 9970 ppm Cu (Figure 14-7). This high failure rate of 92% for Cu needs to be explained.

Samples of OREAS_14P were sent to two additional labs (Acme in Vancouver and SGS in Toronto) to check if the high Cu failure rate was due to the standard itself or the analytical techniques used by Actlabs (Table 14-4 and Figure 14-7). Acme analyzed OREAS_14P by aqua regia digestion and ICP/ES which is similar to the techniques that Actlabs used. SGS first analyzed OREAS_14P by aqua regia and ICP/AES, but the Cu was > 10,000 ppm. SGS then analyzed OREAS_14P by sodium peroxide fusion and ICP/AES.

Table 14-4. A comparison of OREAS_14P analyses by 4 different labs.

SGS-Toronto	Cu_ppm	Ni_ppm	comment
average	9775.0	18850.0	all Cu OK;
count of average	4	4	Ni - 2 warnings, 2 failures
Acme	Cu_ppm	Ni_ppm	comment
average	9360.0	18867.5	Cu - 3 warnings, 1 OK;
count of analysis	4	4	Ni - 2 warnings, 2 failures
Actlabs	Cu_ppm	Ni_ppm	comment
average	8454.5	21014.4	Cu - 92% failed, 8% warning, 1% OK
count of analysis	132	132	Ni - 21% failed, 12% warning, 66% OK
certified values	Cu_ppm	Ni_ppm	comment
by total digestion	9970.0	20900.0	

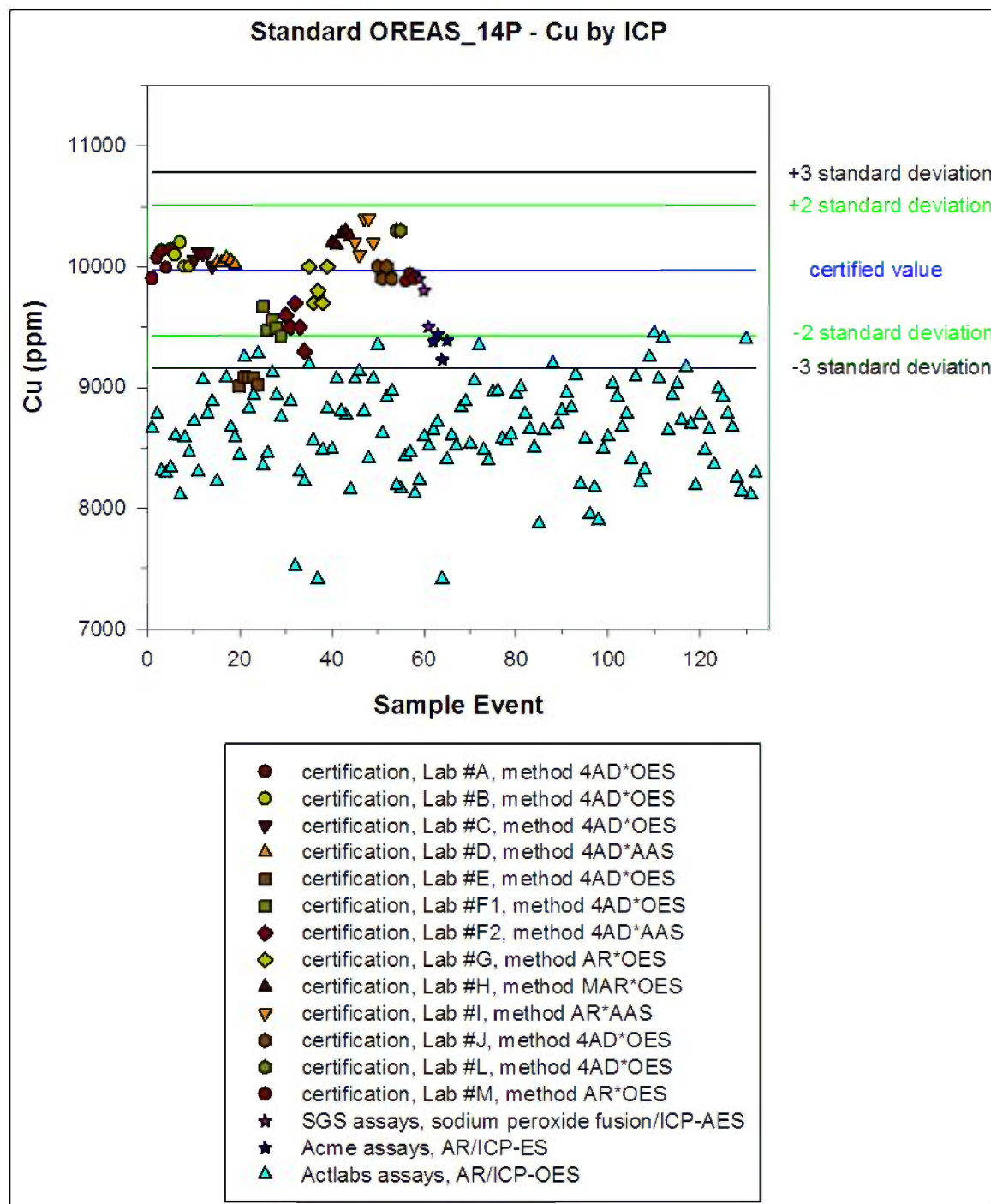


Figure 14-7. Control chart for Cu for OREAS_14P showing analyses by different labs. abbreviations: 4AD – four acid digestion, AR – aqua regia digestion, MAR – modified aqua regia, OES – inductively coupled plasma optical emission spectrometry, AAS – atomic absorption spectrometry

Figure 14-7 shows that assays from Acme and certification Lab #E are similar to the assays from Actlabs. Acme used the same aqua regia (partial digestion) as Actlabs for this standard. Lab #E had concentrations that were anomalously low for Co, Cu, Ni, V, Zn and thus assays from these elements



were not used in the certification of the standard. Lab #E seems to have a systematic problem with its sample preparation and/or sample analysis.

CCIC concludes that the Cu assays are too low from Actlabs because they were analyzed using aqua regia digestion (partial digestion), but the certified values were determined by round robin analyses using four acid digestion (total digestion). The standard must contain Cu in a phase (i.e., oxide or silicate) that is does not dissolve in aqua regia, but does dissolve using four acid digestion. The high failure rate of Cu for OREAS_14P likely has little relevance to the drill core samples, as the drill core samples do not contain Cu-oxides or Cu-bearing silicates.

The Ni assays for OREAS_14P samples from Actlabs had 67% OK, 12% warning and 21% failed (28 failures). Three samples failed because they had blank values for Ni and Cu (drill hole HN-08-13, sample 23360; drill hole HN-08-78, sample 29000; drill hole HN-08-77, sample 28450), whereas the Au, Pt and Pd assays were OK. These samples were reported to the lab and will be re-analyzed. This is likely a sample mix up by Actlabs. Twelve samples failed because the Ni assays were too low (overruns completed July 11, 28 and 30) and 13 samples failed because the Ni assays were too high (overruns completed Oct. 17 and 21). The non-blank failed samples were analyzed as overruns on 5 separate days which indicates that the failures were due to analytical conditions at Actlabs only on certain days. These failed samples were reported to the lab and samples within 10 m of mineralization were re-analyzed with 5 drill core samples before and after them. The control chart for Ni assays for OREAS_14P show a bias of being systematically too high but still in the OK range (Figure 14-8).

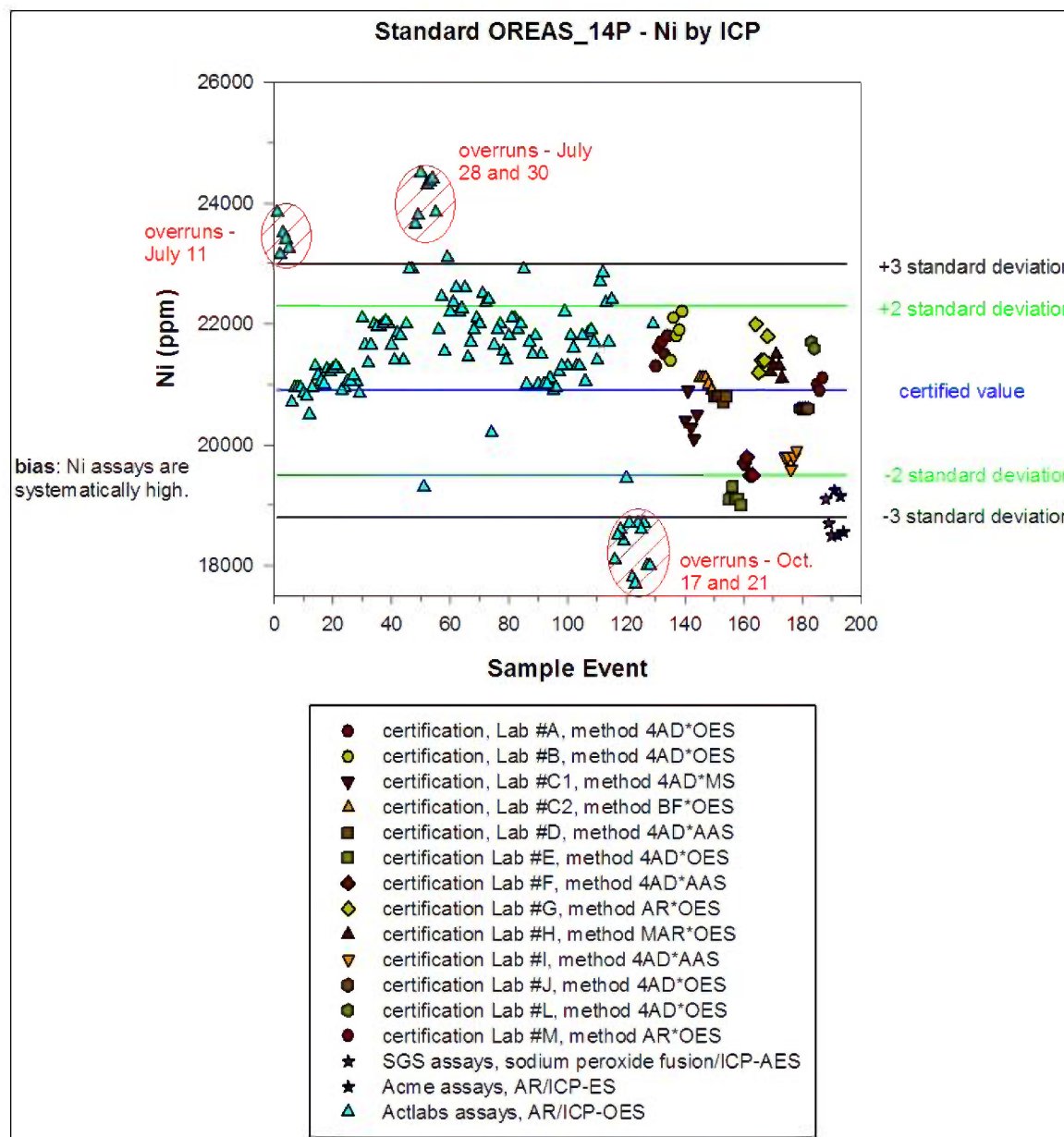


Figure 14-8. Control chart for Ni for OREAS_14P by different labs.
abbreviations: 4AD – four acid digestion, AR – aqua regia digestion, MAR – modified aqua regia, BF – borate fusion, OES – inductively coupled plasma optical emission spectrometry, AAS – atomic absorption spectrometry

Samples of OREAS_14P were sent to additional labs (Acme in Vancouver and SGS in Toronto) to check if the high Ni failure rate was due to the standard itself or the analytical techniques used by Actlabs (Table x.2 and Figure 14-8). Acme analyzed OREAS_14P by aqua regia digestion and ICP/ES which is similar to the techniques that Actlabs used. SGS first analyzed OREAS_14P by aqua regia and ICP/AES, but the Cu was > 10,000 ppm. SGS then analyzed OREAS_14P by sodium peroxide fusion and ICP/AES. Figure 14-8 shows that SGS and Acme assays are similar to the failed Ni assays from Actlabs that were too low. None of the labs produced Ni assays that were too high similar to Actlabs.



CCIC concludes that three of the Ni assay failures for OREAS_14P were due to sample mix up with blanks by Actlabs and the remaining failures were due to analytical conditions during overrun analyses at Actlabs on 5 days.

14.3.4 QC of blanks

Blind blanks were analyzed for Au, Pt, Pd by Laboratoire Expert. The control chart shows that Pt, Pd and Au assays had 99% OK and 1% failed (> 15 ppb, maximum acceptable value) (Figure 14-9). The Pt, Pd and Au had 2 failures: drill hole HN-08-53, sample 27320 with 97 ppb Pt, 153 ppb Pd and 49 ppb Au and drill hole HN-08-58, sample 24960 with 22 ppb Pt, 69 ppb Pd and 79 ppb Au. Sample 27320 is not within a high grade zone and looks like it is a sample mix up with either a drill core sample or a standard. Sample 24960 looks like a sample mix up with the previous drill core sample. Au assays had one additional failure for drill hole HN-08-07, sample 26510 with 55 ppb Au and the Pt and Pd are OK. This sample is within a moderate grade Au zone and the failure may be due to carryover from previous samples. CCIC is satisfied with the low failure rate for the Pt, Pd and Au assays, and the minimal failures are due to sample mix up and carryover.

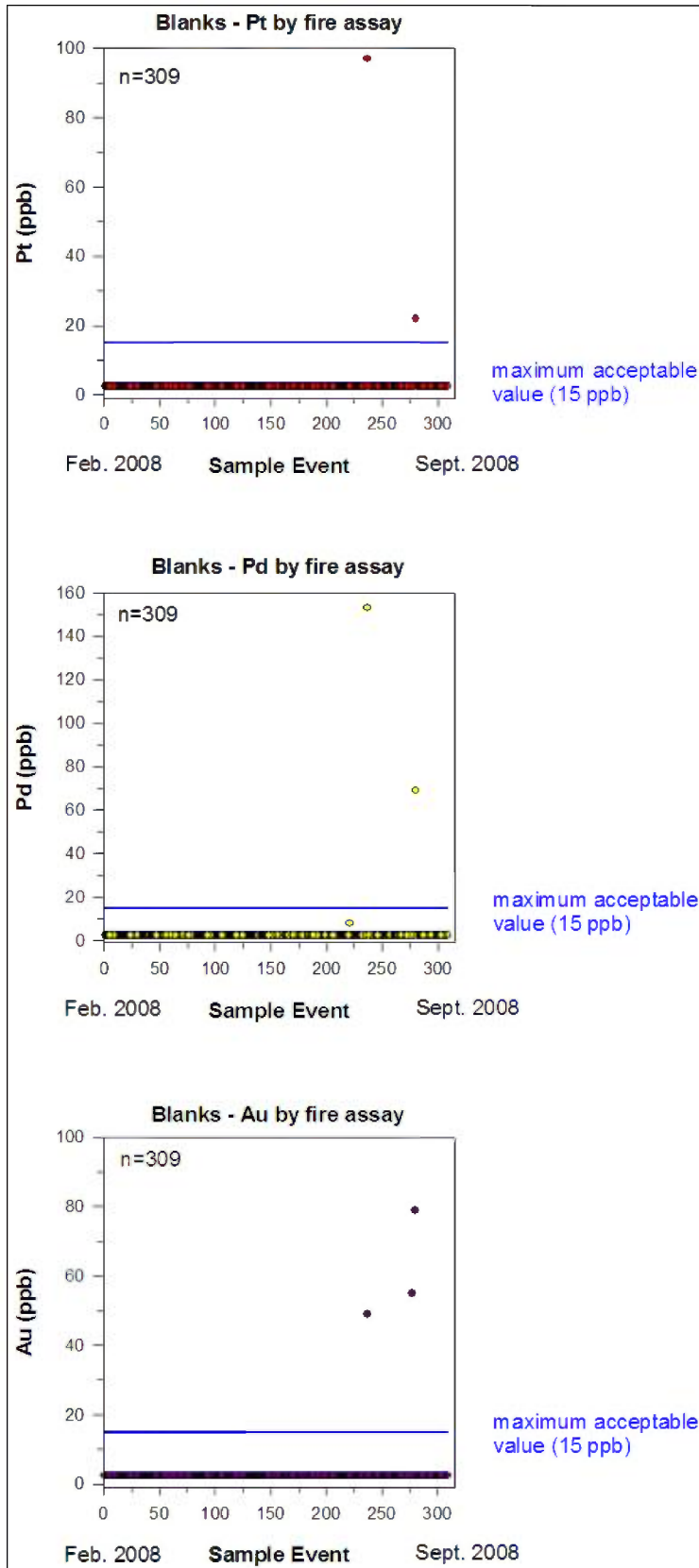


Figure 14-9. Control chart for Pt, Pd and Au for blanks.



Blind blanks were analyzed for Cu and Ni by Actlabs. The Cu assays had 73% OK (< 10 ppm Cu), 18% warning (11-49 ppm Cu) (55 samples) and 9% failed (>50 ppm) (29 samples) (Figure 14-10). The majority of the warnings and failures are caused by carryover from previous high grade Cu samples. The four blank samples with the highest Cu assays are: drill hole HN-08-03, sample 23210 with 992 ppm Cu, drill hole HN-08-53, sample 27360 with 999 ppm Cu, drill hole HN-08-53, sample 27320 with 1540 ppm Cu and drill hole HN-08-58, sample 24960 with 3460 ppm Cu. Samples 23210 and 27360 also have failed high Ni assays, but Pt, Pd and Au are OK, thus this is a sample mix up with a drill core samples by Actlabs for the ICP analyses, but not a sample mix up for the fire assay analyses. Samples 27320 and 24960 have anomalously high Ni, Pt, Pd, and Au and are thus a sample mix up with drill core samples for both ICP and fire assay analyses which likely occurred during sample preparation.

The Ni assays had 86% OK (< 10 ppm Cu), 10% warning (11-49 ppm Cu) (30 samples) and 4% failed (>50 ppm) (12 samples) (Figure 14-10). The majority of the warnings and failures are caused by carryover from previous high grade Ni samples. The four blank samples with the highest Ni assays are: drill hole HN-08-70, sample 27730 with 178 ppm Ni, drill hole HN-08-03, sample 23210 with 650 ppm Ni, drill hole HN-08-58, sample 24960 with 1010 ppm Ni and drill hole HN-08-53, sample 27320 with 1640 ppm Ni. Samples 27730 and 23210 also failed for Cu, but Pt, Pd and Au are OK, so this must be a sample mix that occurred during Actlabs ICP analysis, but not during the fire assay analysis. Samples 24960 and 27320 also failed for Cu, Pt, Pd and Au, so this must be a sample mix up that occurred during sample preparation before Actlabs did ICP analysis and Laboratoire Expert did fire assay analysis.

All failed blanks within 10 m of mineralization and > 10% of previous samples have been reported to the lab and were re-analyzed along with the 5 samples before and after the failed blank (see section on re-assay of QC failures).

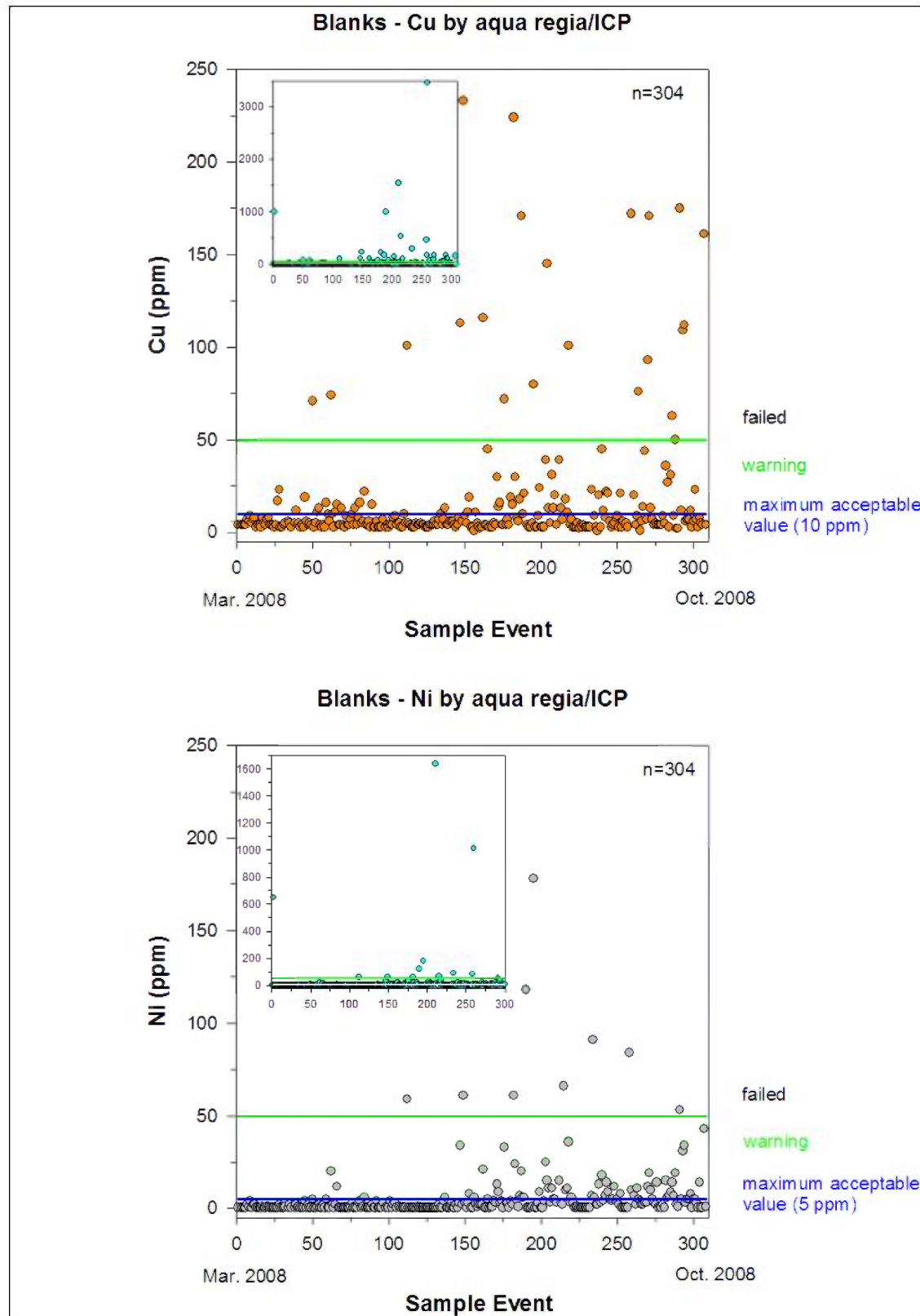


Figure 14-10. Control chart for Cu and Ni for blanks.
The inset graphs are at expanded scales to show analyses with anomalously high Cu and Ni values.



14.3.5 QC of lab generated pulp duplicates

Laboratoire Expert and Actlabs randomly selected samples to become pulp duplicates. A total of 465 samples were duplicated for Cu and Ni by ICP analyses and a total of 917 samples were duplicated for Au, Pt and Pd by fire assay. Since the standards and blanks were blind to the labs, they were duplicated along with the drill core samples.

Figure 14-11 plots the primary analysis vs the secondary analysis for Pt, Pd and Au (fire assay). All of the duplicates for Au, Pt and Pd plot along the regression line with an excellent R^2 value of ~ 1.00 . The Pt, Pd and Au duplicates were also plotted in pair absolute difference vs pair mean graphs (Figure 14-12). Overall, the absolute difference for the duplicates is reasonable and CCIC is satisfied with the quality of the fire assay duplicates. The assays for moderate grade APG3 and SMG1 standards stand out in the graphs as clustering around a pair mean value but having a wide range of pair absolute difference values. The drill core and OREAS_14P standard assays plot together at low Pt, Pd and Au values.

Figure 14-13 plots the primary analysis vs the secondary analysis for Cu and Ni (ICP analysis). All of the duplicates for Cu and Ni plot along the regression line with an excellent R^2 value of ~ 1.00 . Only two samples plot off of the regression line for Cu and Ni values. Sample 26031 (drill hole HN-08-46) plots slightly off the regression line for Cu and Ni. The rest of the ICP analyses for 29 other elements were sufficiently different that the ICP data for this sample that it was labelled as a "bad duplicate" and removed from the database. The fire assay analyses for this sample were similar, so they were kept in the database.

Sample 26300 (OREAS_14P standard) was duplicated during the Ni overrun analysis. The rest of the elements for this sample were not duplicated. The Ni analyses were 2.18 and 2.23 %Ni with only 2 significant figures after the decimal place. When these analyses are converted to ppm (21800 and 22300 ppm) and plotted in figure 14-12, they plot slightly off of the regression line possibly due to the fact that they have less significant digits than the low grade samples.

These same two samples (26031 and 26300) also plot as outliers in the pair absolute difference vs. pair mean figures for Cu and Ni (Figure 14-13). In this figure, the first and second analysis for one sample is averaged and the absolute difference between the two analyses is plotted. Samples with a high pair absolute difference indicate problems. Sample 26031 has a high pair absolute difference for Cu and Ni which indicates that the second duplicate is not the same sample as the first and thus it is likely a sample mix up. Sample 26300 has a high pair absolute difference for Ni, and samples 25527 and 24898 have high pair absolute difference for Cu and Ni due to the high grade samples have only 3 significant digits which results in a larger potential error between two samples.

CCIC is satisfied with the excellent quality of the lab generated pulp duplicates.

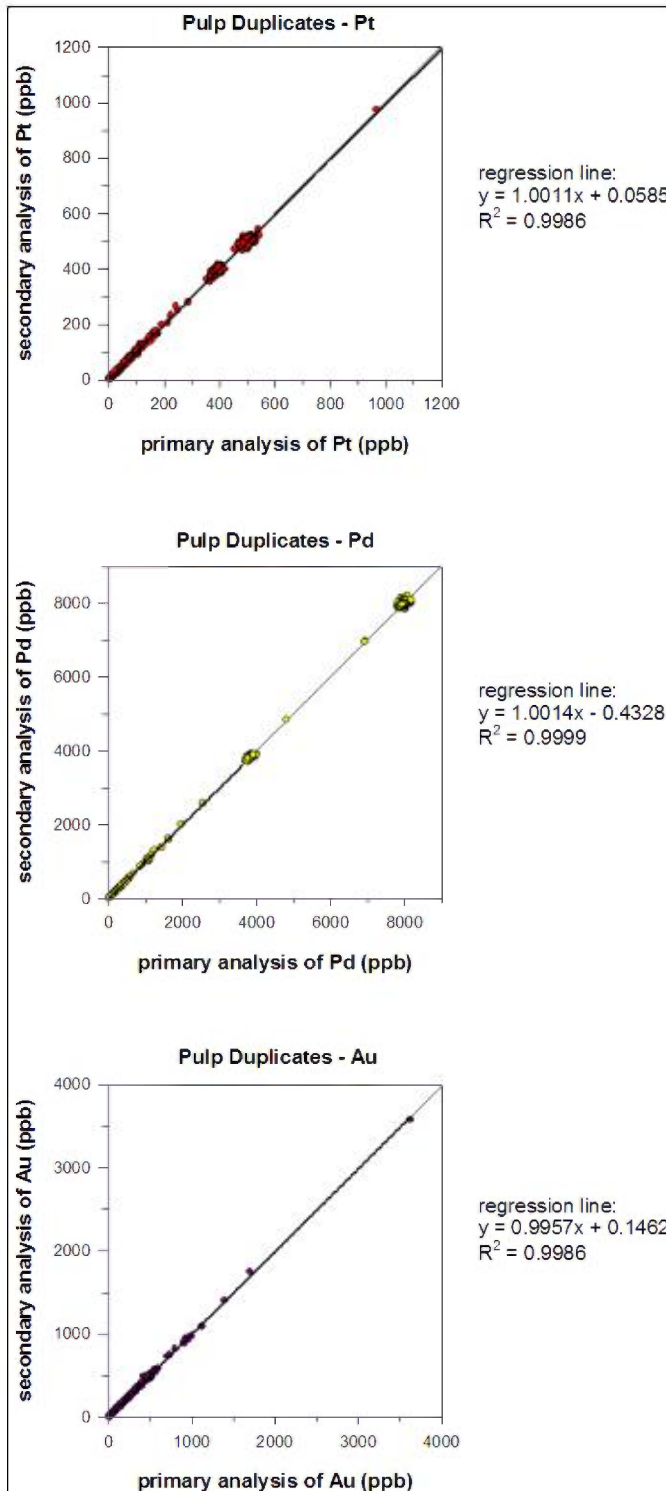


Figure 14-11. Primary analysis vs. secondary analysis for pulp duplicates for Pt, Pd and Au.

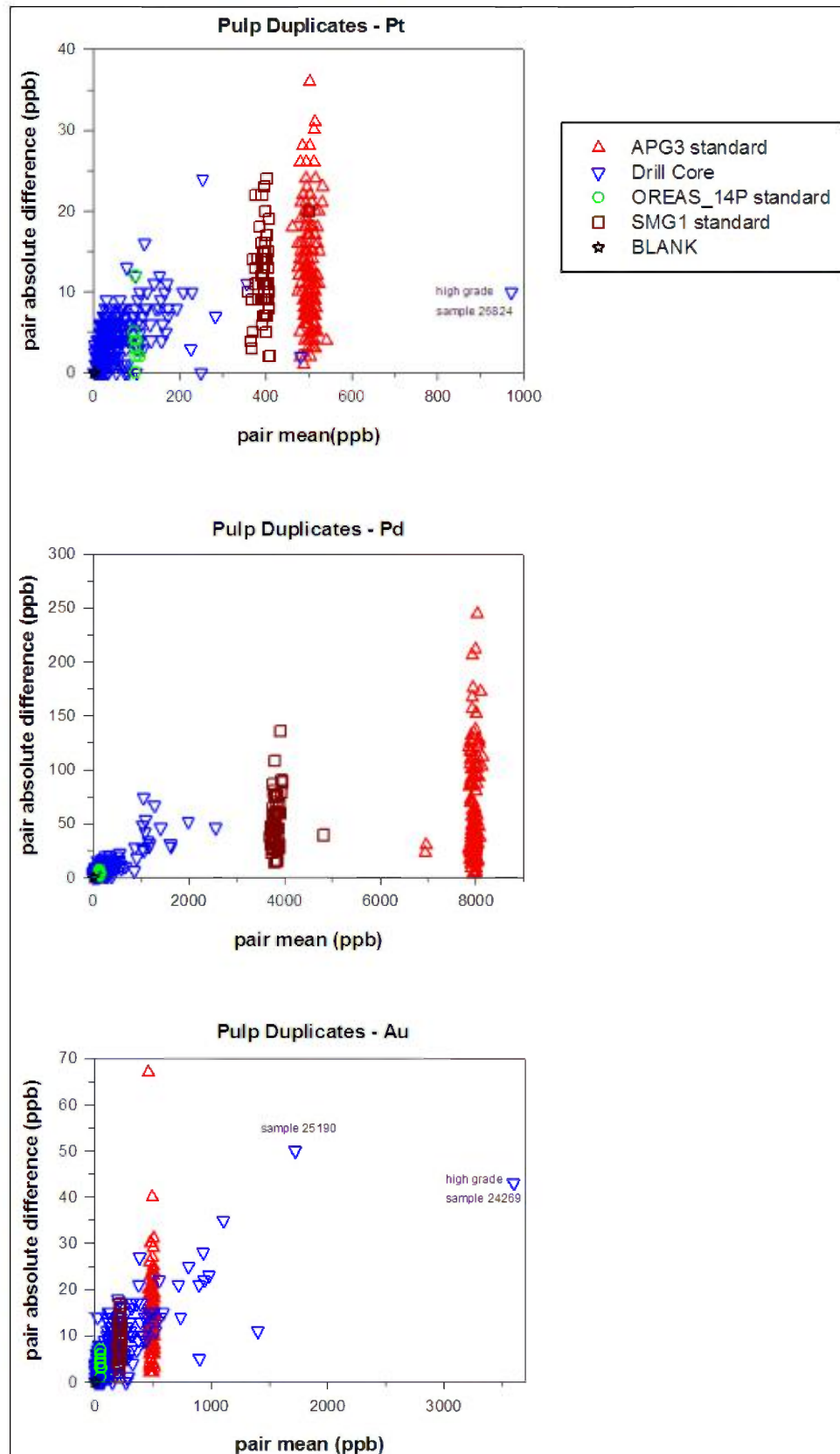


Figure 14-12. Pair absolute difference (ppm) vs. pair mean (ppm) for Pt, Pd and Au duplicates.

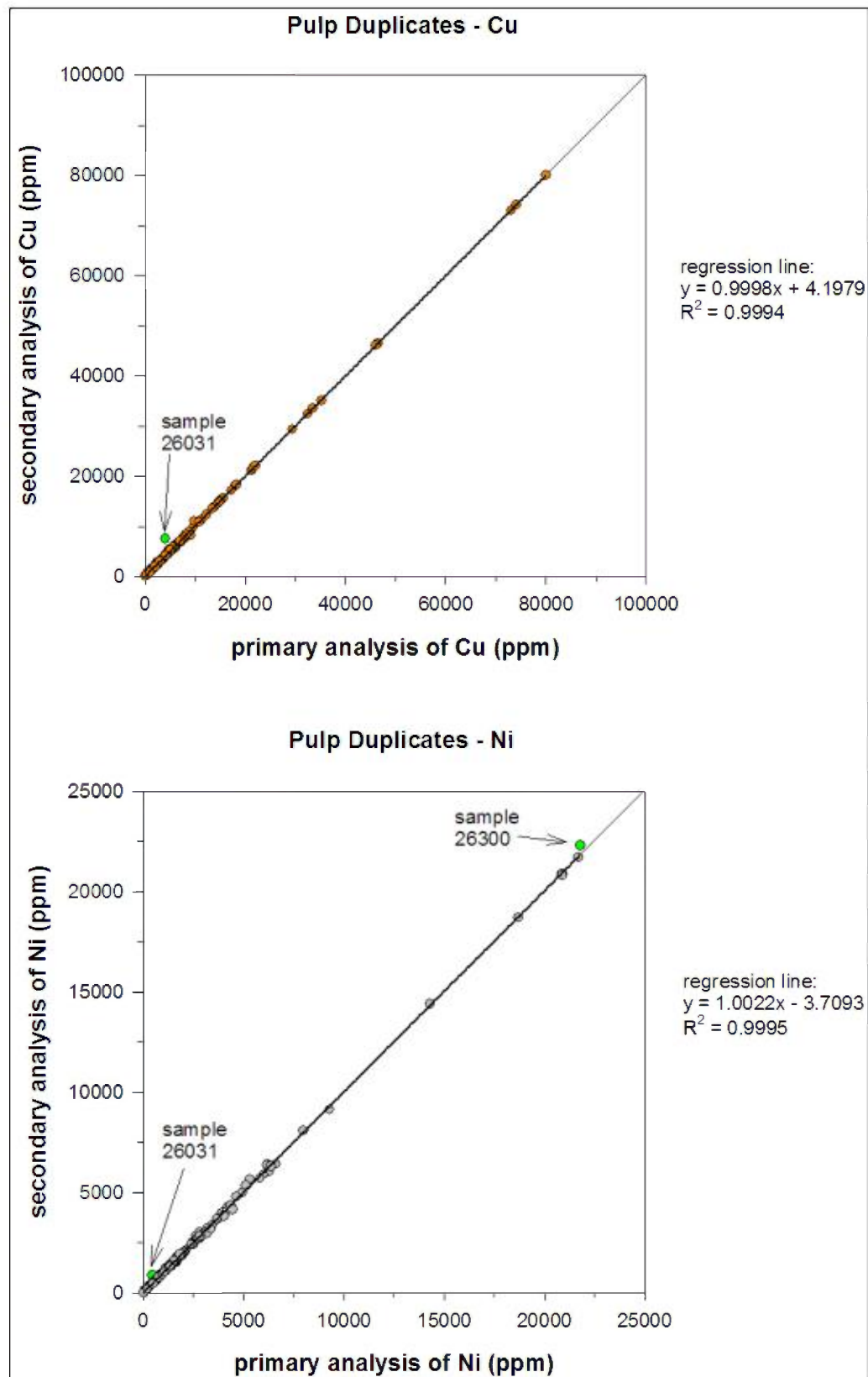


Figure 14-13. Primary analysis vs. secondary analysis for pulp duplicates for Cu and Ni.

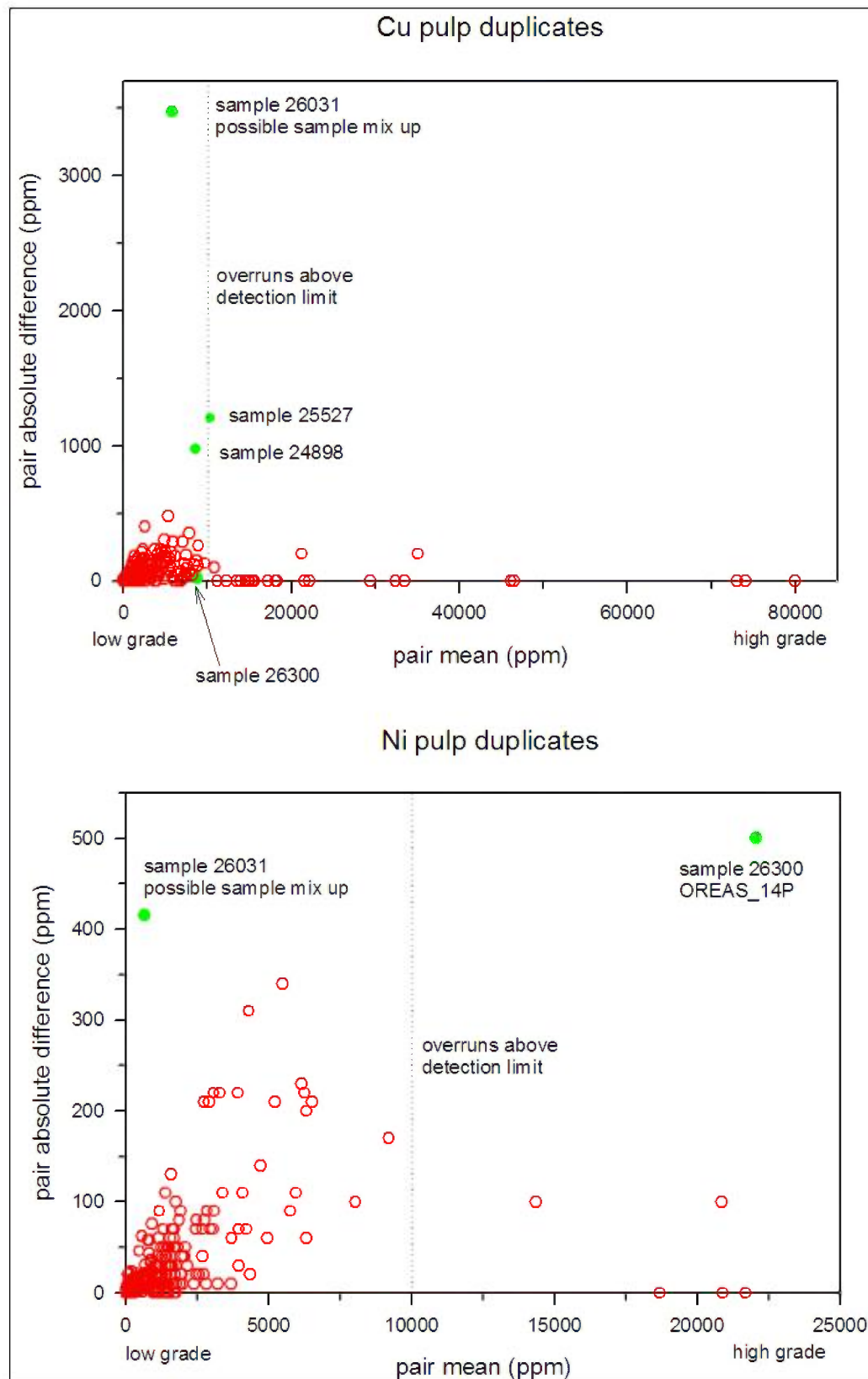


Figure 14-14. Pair absolute difference (ppm) vs. pair mean (ppm) for Cu and Ni duplicates.



14.3.6 Re-assay of QC failures by primary lab

Failed QC standards that were within 10 m of mineralization were re-analyzed by Laboratoire Expert and Actlabs. Failed QC blanks that were within 10 m of mineralization and the assay results for the failed blank sample were > 10% the assay of the previous sample were also re-analyzed. This is to help distinguish < 10% carryover from previous high grade sample and > 10% due to sample mix up error. Only failed QC samples in close proximity of the mineralization were re-analyzed as these samples are critical to the resource calculations. Failed QC samples far from mineralization have no effect on the resource calculation. In addition to the failed QC samples, 5 drill core samples above and 5 drill core below the failed standard were also re-assayed. A total of 81 samples (including standards) were re-assayed by fire assay by Laboratoire Expert and 159 samples (including standards) were re-assayed by ICP by Actlabs.

These re-assays of QC failures were treated as duplicates of the first analyses upon completion of the analyses. They were plotted in primary analyses vs secondary analyses and in pair mean vs pair absolute difference plots to determine how they should be added to the database. Samples that plotted off of the regression line for the primary analyses vs secondary analyses plots were labelled as outliers. Samples that plotted far from the bulk of the analyses on the pair mean vs pair absolute difference were also labelled as outliers. For the majority of the samples, the re-assay values were similar to the original values, thus the two analyses were averaged and added to the database. If the re-assay values were different from the original values and plotted as outliers, then either the original or re-assay values were used in the database and the other analysis was tossed out as being a “bad analysis”. Which analyses are “good” and which analyses are “bad” was determined on a sample by sample basis. The end result is that the quality of the analyses in the database was improved, as bad analyses were identified and tossed out of the database.

14.3.7 Re-assay of 5% of samples by secondary lab

Five percent of the samples (141 coarse reject samples and 17 QC samples) used in the resource model were sent to Accurassay Laboratories for analysis as a quality control check. The samples in the model were sorted by drill hole number and sample number and then every 20th sample was selected for re-assay. This ensured that the re-assay included samples from every hole and every mineralization grade. The percentage of each Cu grade for the entire resource model is very similar to the percentage for samples that were re-assayed (Table 14.5). Thus re-assay was representative of the Horden Lake deposit and was not bias towards the high grade samples. Accurassay analyzed Cu and Ni by aqua regia and ICP, so that the method matched that used by Actlabs. The samples were sorted by Cu grade, as determined by Actlabs, and standards were inserted next to samples with similar grades. QC samples were inserted every 10th sample.



Table 14-5. Comparison of Cu grade in the model and the samples re-assayed.

Cu grade	Cu description	percentage of entire model	percentage of samples re-assayed
0-0.5% Cu	low grade	64%	66%
0.5-1.0% Cu	medium grade	19%	17%
1.0-1.5% Cu	high grade	5%	6%
>1.5% Cu	very high grade	12%	11%

The QC samples consisted of 1 blank and 3 standards: low grade SMG1 (1489 ppm Cu), medium grade OREAS_93 (5761 ppm Cu certified by aqua regia digestion) and high grade OREAS_94 (1.13 % Cu certified by aqua regia digestion). All of the blanks have < 25 ppm Ni and < 36 ppm Cu and thus are OK. SMG1 had 6 assays in the OK range and 1 that plotted as a warning. OREAS_93 and OREAS_94 assays are also OK.

The drill core samples were plotted to compare Actlabs' primary assay with Accurassay's secondary assay (Figures 14.15 and 14.16). The regression line for Cu has a $R^2 = 0.9852$ and for Ni has a $R^2 = 0.9574$ after the outliers were removed from the calculation. Since the duplicates were coarse reject duplicates rather than pulp duplicates, the margin of error is larger. All of the Cu and Ni outliers are acceptable.

CCIC thus concludes that the re-assay by Accurassay of 5% of the samples used in the resource model calculation confirms that the original assays by Actlabs are of good quality.

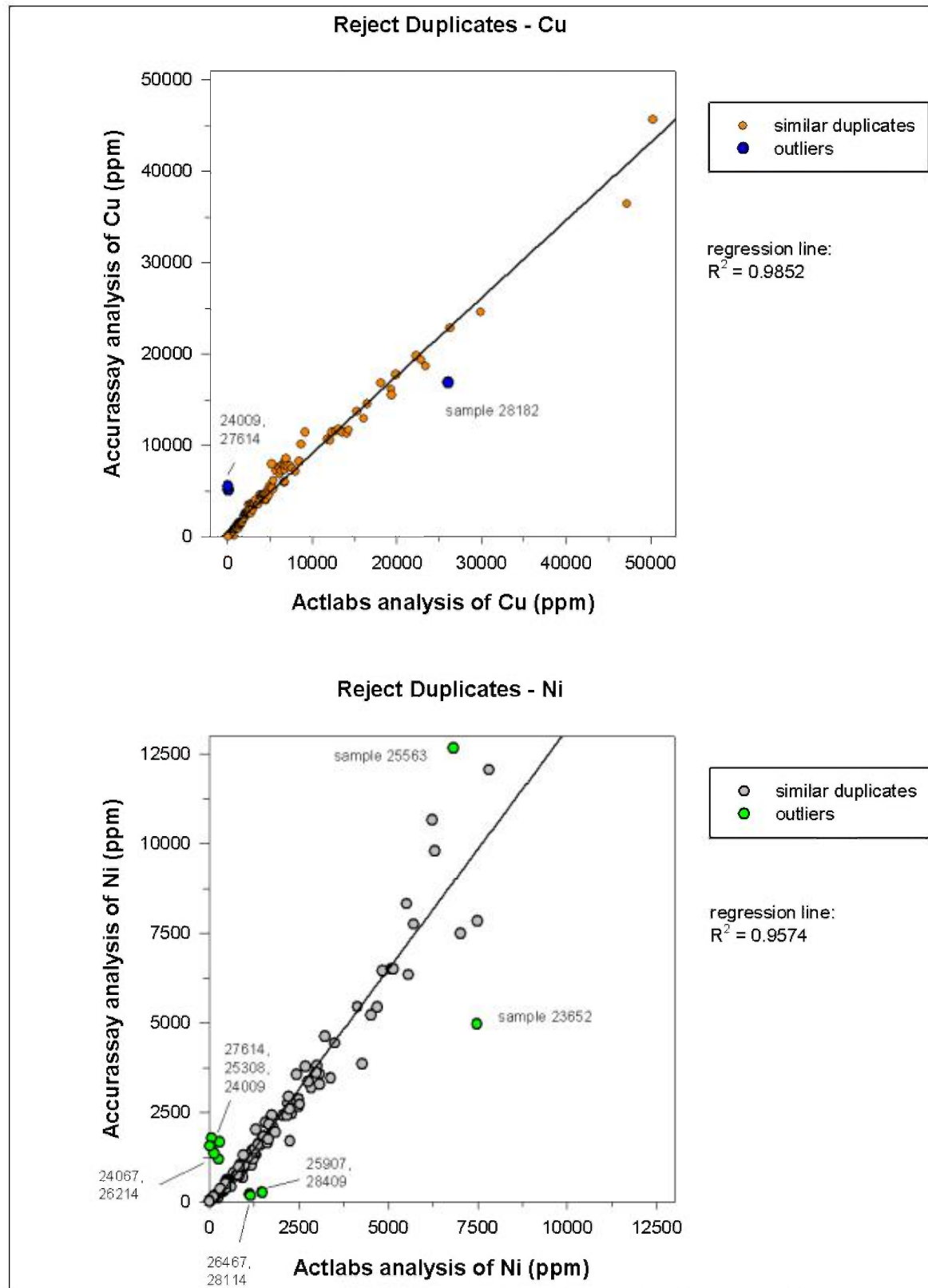


Figure 14-15. Comparison of assays by Accurassay and Actlabs. Outliers were not included in the calculation of the regression line.

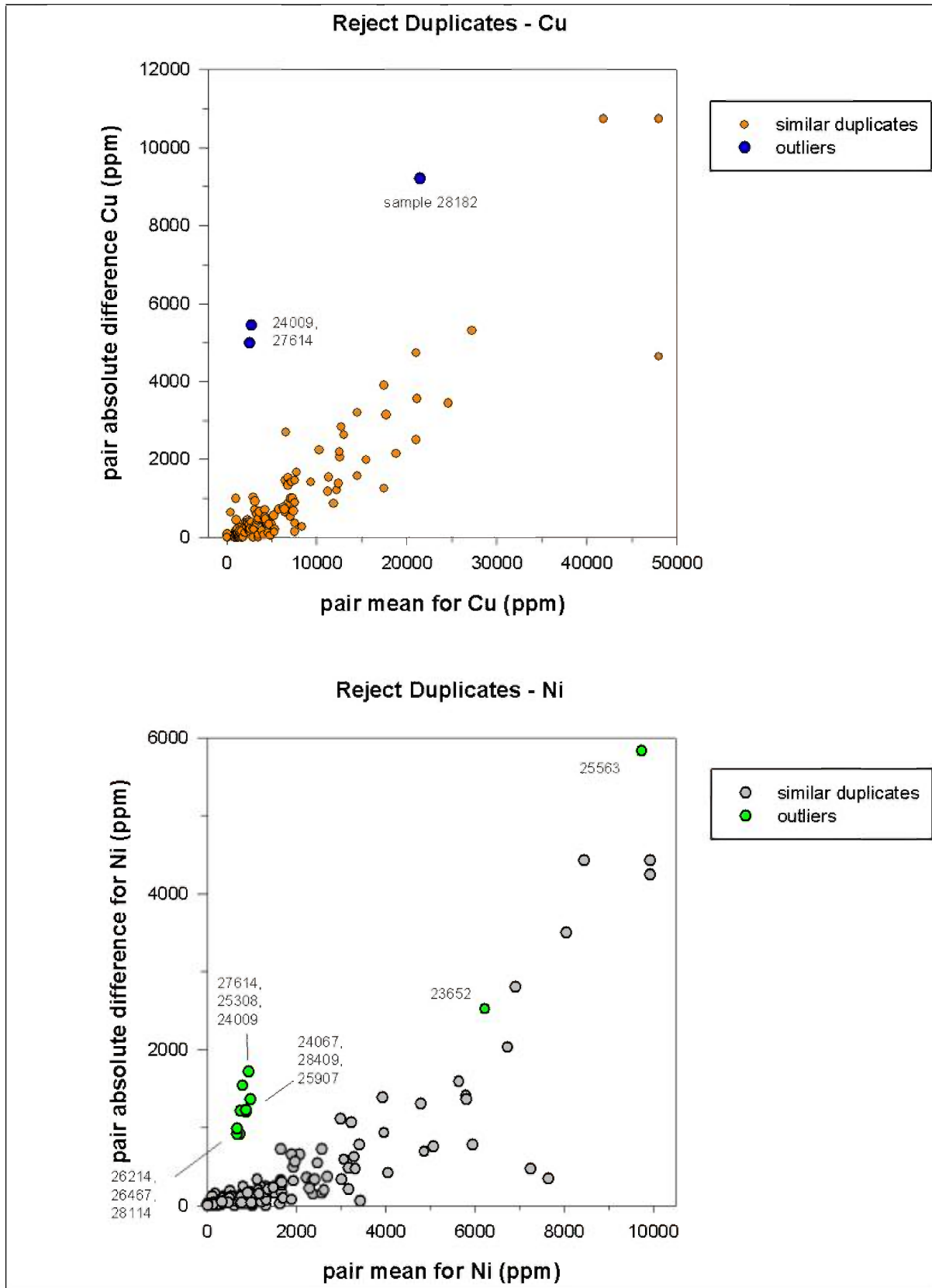


Figure 14-16. Pair mean vs. pair absolute difference plot for Accurassay duplicates.



14.3.8. Summary of QC problems

Table 14-6 contains a summary of the percent of QC failures for each element in each standard and the proposed reason for the failures. The majority of the failures were due to sample mix ups; either the core shack incorrectly labelled standards or the lab switched labels for standards and samples. Due to the high failure rates for Pd in the SMG1 standard and for Cu and Ni for the OREAS_14P standard, these two standards were re-assayed by two additional labs (Acme and SGS). The low Pd assays for SMG1 are due to undissolved Pd in chromite in the standard. This has no effect on the drill core assays, as there is no chromite in the drill core. The low Cu assays for OREAS_14P are due to the fact that the standard was analyzed using aqua regia which is a partial digestion, whereas the standard was certified using four-acid digestion which is a total digestion. The standard must contain Cu in a phase (i.e., oxide or silicate) that it does not dissolve in aqua regia, but does dissolve using four-acid digestion. The high failure rate of Cu for OREAS_14P likely has little relevance to the drill core samples, as the drill core samples do not contain Cu-oxides or Cu-bearing silicates. The high failure rate for Ni for OREAS_14P is due to Ni overruns analyzed on 5 separate days which relates to analytical conditions at Actlabs only on certain days.

Failed QC standards that were within 10 m of mineralization were re-analyzed by Laboratoire Expert and Actlabs. Failed QC blanks that were within 10 m of mineralization and the assay results for the failed blank sample were > 10% the assay of the previous sample were also re-analyzed. For the majority of the samples, the re-assay values were similar to the original values, thus the two analyses were averaged and added to the database. If the re-assay values were different from the original values and plotted as outliers, then either the original or re-assay values were used in the database and the other analysis was tossed out as being a "bad analysis".

Table 14-6. Summary of QC failures

standard name	element(s)	method	% failed	reason for failures
APG3	Au, Pt	fire assay	1	sample mix up
APG3	Pd	fire assay	2	sample mix up
APG3	Cu	ICP	3	sample mix up
APG3	Ni	ICP	1	sample mix up
SMG1	Au, Pt	fire assay	0	
SMG1	Pd	fire assay	98	assays low due to undissolved Pd in chromite in the standard
SMG1	Cu, Ni	ICP	0	
OREAS_14P	Au, Pt, Pd	fire assay	1	sample mix up
OREAS_14P	Cu	ICP	92	assays low due to aqua regia dissolution of samples
OREAS_14P	Ni	ICP	21	analytical conditions of overruns
blanks	Au, Pt, Pd	fire assay	1	sample mix up, carryover
blanks	Cu	ICP	9	sample mix up, carryover
blanks	Ni	ICP	4	sample mix up, carryover



CCIC is satisfied with the excellent quality of the lab generated pulp duplicates and only one sample was removed from the database for being a "bad duplicate".

15.0 ADJACENT PROPERTIES

Properties adjacent to the Southampton claims are held by Canadian Royalties Inc., International Canalaska Ventures Ltd., Azimut Exploration Inc. and a private individual (Figure 15-1).

Canadian Royalties Inc. seems to be only working on the Nunavik Nickel project in Nunavik Quebec and to the best of CCIC's knowledge has not worked on their James Bay properties (www.canadianroyalties.com).

Azimut Exploration Inc. labels the adjacent property as "Broadback". Broadback was acquired based on targeting results of Azimut's regional-scale (172,000 km²) gold potential modelling for sediment-hosted gold deposit type in the James Bay region (www.azimut-exploration.com). The gold potential modeling performed by Azimut over the entire surface area of the James Bay region combined geological, geochemical and geophysical parameters.

International CanAlaska Resources Ltd. changed their name to CanAlaska Ventures Ltd. on Dec. 3, 1999 and then changed its name to CanAlaska Uranium Ltd. on Oct. 11, 2006 (www.canalaska.com). CanAlaska is working on uranium projects in Athabasca Basin, Saskatchewan and to the best of CCIC's knowledge has not done any work on their property in the James Bay region.

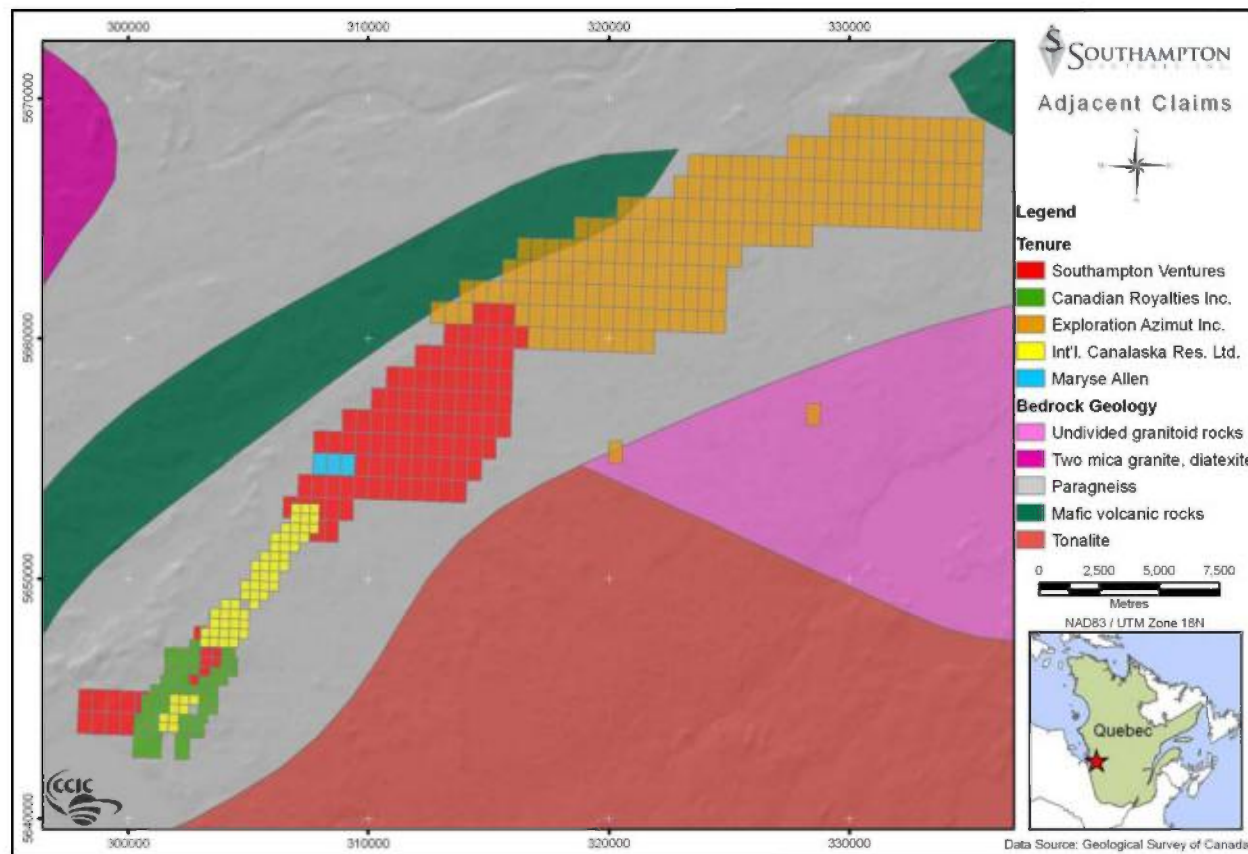


Figure 15-1: Location of adjacent properties.

16.0 MINERAL PROCESSING AND METALLURGICAL TESTING

No mineral processing and metallurgical testing has been carried out on samples from the Horden Lake Property.

17.0 MINERAL RESOURCE AND RESERVE ESTIMATES

17.1 Database Generation

The database consists of:

1. 95 drill holes completed by INCO between in 1969; and
2. 73 drill holes completed by Southampton between January 26 and March 30, 2008.

CCIC completed a detailed compilation of historic data provided by Southampton. The compilation included the digital capture of the following items:

- o 81 geological sections
- o 9 geological plans
- o 155 drill holes logs



The data were compiled in ArcMap and, where applicable, Datamine format. Data from other sources, including the NTDB and STRM elevation models, Quebec government geology, geophysics, and assessment information, were integrated into the compilation.

All drillhole collars for phase 1 drilling from January 26, 2008 to March 20, 2008 were surveyed using Trimble GEO XH using Zephyr™ external antenna and base corrected using GPS Pathfinder office software by CCIC personnel. The results of the DGPS survey were utilized for the final transformation of INCO data from local grid to UTM space.

17.1.1 Digital Elevation Model

The Digital Elevation Model for the area around the 18 Zone was obtained from Canadian Digital Elevation Data (CDED) available at <http://www.geobase.ca>. The Canadian Digital Elevation Data (CDED) consists of an ordered array of ground elevations at regularly spaced intervals. The source digital data for CDED at scales of 1:50,000 and 1:250,000 is extracted from the hypsographic and hydrographic elements of the National Topographic Data Base (NTDB) or various scaled positional data acquired from the provinces and territories (Geobase, 2008). The sources of digital or analogue data used to acquire data for the NTDB are aerial photography, reproduction material, MSS Landsat Images, TM Landsat Images, Spot XS Images, Spot PAN Images, and GPS Data (Geomatics Canada, 1997). The CDED was corrected and merged with the elevation data obtained from the DGPS survey of all available drill collars.

17.1.2 Survey Method

Down hole survey data was collected with two different instruments:

1. Flexit; and,
2. Reflex Maxibour.

The Flexit data proved to be influenced by the magnetic nature of the ore body. Therefore, the instrument was replaced with a Reflex Maxibore early in the program. Data collected from the Flexit survey instrument was recorded on paper in the field and later entered into the database. Corrections were completed on the Flexit data by normalizing the first reading to the planned azimuth of 124° and the difference then applied to the remaining readings. Azimuth variations of greater than ±10° were reset to average value above and below the incident data point. Reflex Maxibore is an advanced instrument for survey data collection and is considered to be more accurate in magnetically disturbed environments. No corrections were applied to the Maxibore data. Survey data with Reflex Maxibore is collected at every 3 m from the bottom and transferred digitally into Microsoft excel format.

17.2 Wireframe Modelling

The wireframe 3D model is based on 0.5 % Cu cut off grade using both INCO and CCIC drilling (Figure 17-1). The mineralized zone was modelled on sections at intervals of approximately 50 m. The zones were extended 25 m along strike to the north-east and south-west, beyond the last section drilled.



The final wireframe model consists of 2 zones: the primary zone of mineralization which extends for a strike length of approximately 1500 m, and, a secondary, hanging wall zone (Zone 2) which sits parallel to the Zone 1 but extends for a strike length of ~290 m.

The average strike direction of Zone 1 is 210°, and the average dip direction is 57° to the northwest. The average thickness of Zone 1 is approximately 19 m. The average strike direction of Zone 2 is 210 and the average dip direction is 57° to the northwest. The average thickness of Zone 1 is approximately 10 m.

A summary of spatial statistics for the model is presented in Table 17-1.

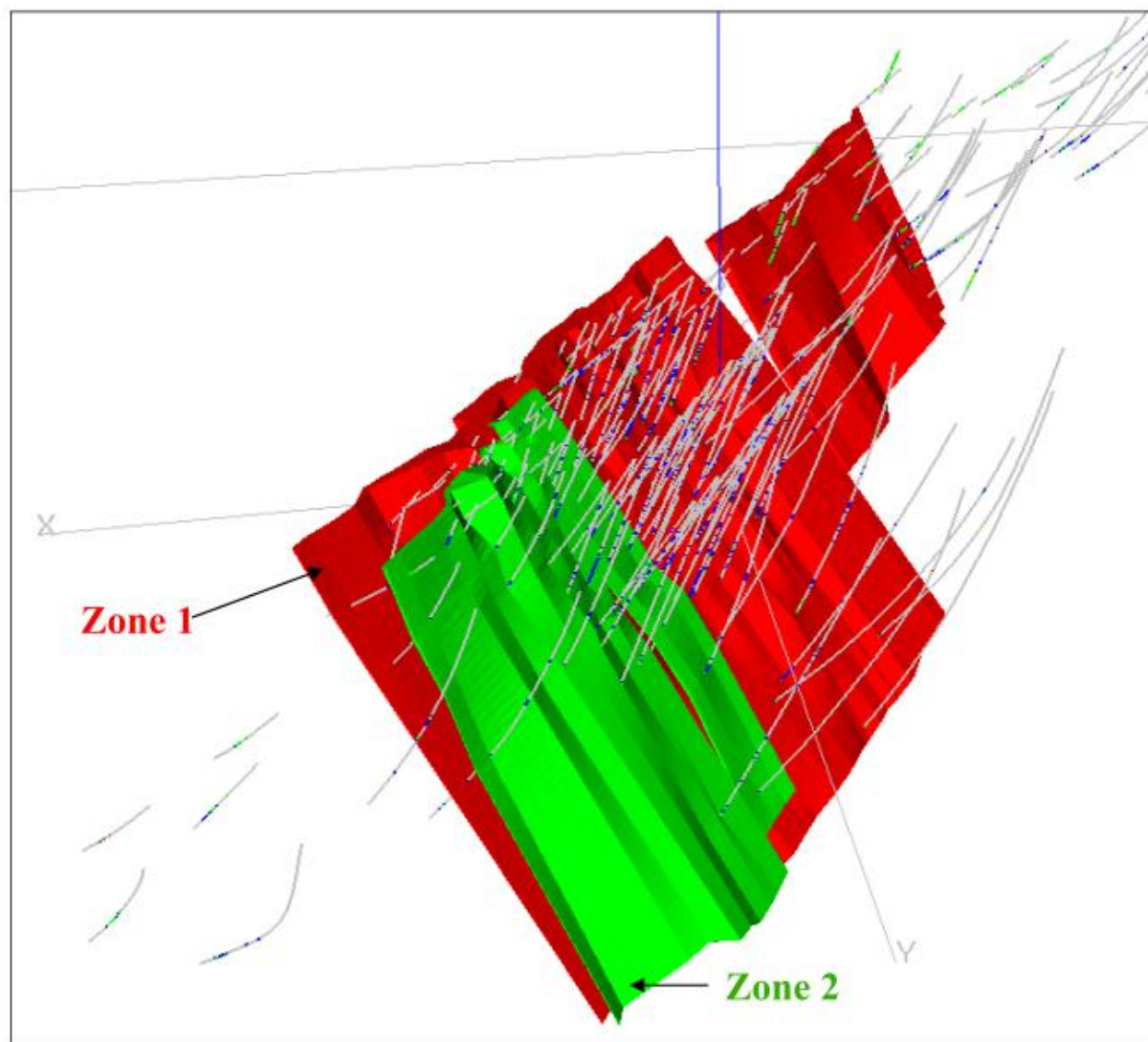


Figure 17-1. 3-D view from NE of Cu zone Horden Lake deposit wireframe model.



Table 17-1. Spatial statistics of the Horden Lake Deposit (NAD 83 Zone 18N).

Axis	Minimum (m)	Maximum (m)	Range (m)
X	302,773	303,773	1,000
Y	5,645,784	5,647,208	1,424
Z	-308.17	251.76	559.94

17.3 Specific Gravity

A tonnage factor of 10.0 cubic feet per ton, equivalent to a specific gravity of 3.2 g/cm³, was utilized to convert volume of in situ rock to tonnes. This factor was determined by INCO based on specific gravity measurements of drill core and is considered acceptable (WGM, 1991). If the Indicated Resources are utilized in a pre-feasibility level economic analysis, or if portions of the deposit are upgraded to Measured Resources with further drilling, additional specific gravity measurements should be conducted.

17.4 Adjustments to Sample Database

Due to the low incident of outliers, sample constraining (sample capping or top capping) was not completed. Top cutting tests were conducted for Cu and Ni; the outcome of the resource estimate was not apparent in the significant digits in which it is stated.

17.4.1 Sample Composites

The assay sampling interval for INCO data was mostly 1.5 m (Figure 17-2); the sample length during the 2008 program was primarily 1.0 m (Figure 17-3). Drill hole assays were set to 1.5 m composite lengths within the mineralized zone. A minimum composite length of 0.5 m was utilized; samples less than 0.5 m were discarded.

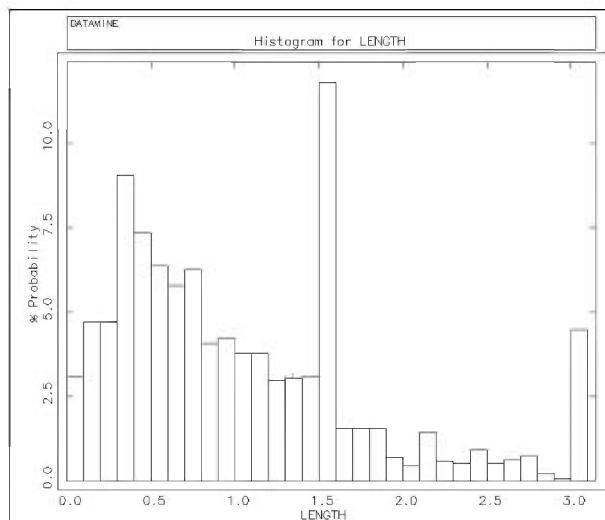


Figure 17-2. Frequency histogram of INCO drill hole sample length.

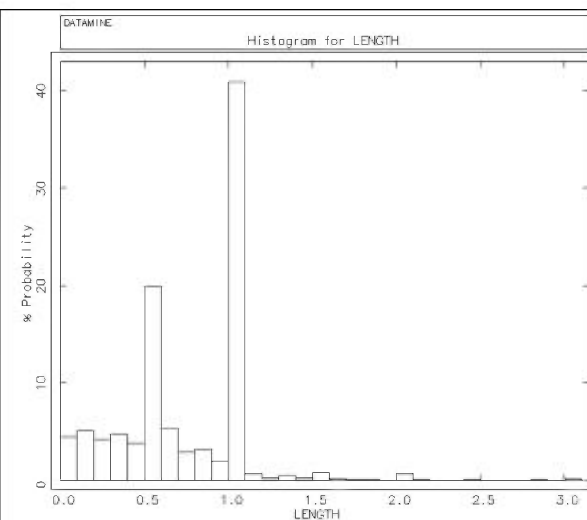


Figure 17-3. Frequency histogram of Southampton-08 drill hole sample length.

17.5 Estimation Parameters

Datamine Studio 3 was utilized to calculate experimental down-hole and across strike variograms for Cu, Ni, Au, Ag and Pd. The INCO and Southampton data were treated as separate populations. Ultimately, the variograms calculated using the Southampton data exhibited better structures. These variograms were therefore used to create the variogram models.

A summary of estimation parameters derived from the variogram modelling are presented in Table 17-2.

Table 17-2. Summary of estimation parameters.

Direction	Nugget	Sill	Variogram Range (m)	Base Search Distance (m)	Max Search Distance (m)
Down-dip	0.13	1	119.78	95.82	191.65
Across-strike	0.13	1	172.85	138.28	276.56
Normal vertical	0.13	1	9.95	7.96	15.93

17.6 Block Model

Details of the block model are presented in Table 17-3. Relatively small blocks with sub cells were utilized due to the anastomosing, reef-like nature of the deposit.



Table 17-3. Block model parameters used for the Posse deposit model.

Axis	Origin	Parent Block	Subcell	Discretization Points
X	302750	10	5	2
Y	5645750	20	10	3
Z	-325	10	5	2

17.7 Grade Interpolation

The Estimate was completed using the Ordinary Kriging method and is stated below at 0.5% and 1.0% Cu block cut-offs (Table 17-4). Due to their erratic variogram structures, low grade, and having only been analyzed for in the 2008 program, values for Au, Ag, and Pd are excluded from the statement of the Estimate.

0.5 % Cu Block Cut off

Category	Tonnes	Cu (%)	Ni (%)
Indicated	8,759,200	0.88	0.21
Inferred	7,791,195	0.87	0.25

1.0 % Cu Block Cut off

Category	Tonnes	Cu (%)	Ni (%)
Indicated	2,416,000	1.37	0.25
Inferred	1,997,600	1.35	0.34

Blocks lying within 50 metres of drill intercepts completed in 2008 were assigned a flag allowing them to fall into the Indicated category if they were also estimated with a minimum of 4 samples from more than one 2008 drill hole. Blocks lying greater than 50 metres from a 2008 drill intercept (including blocks estimated primarily with INCO intercepts) were not allowed to fall into the Indicated category. The maximum search distances were derived from variogram studies.

A chart of the grade tonnage curve for Cu is presented in Figure 17-4.

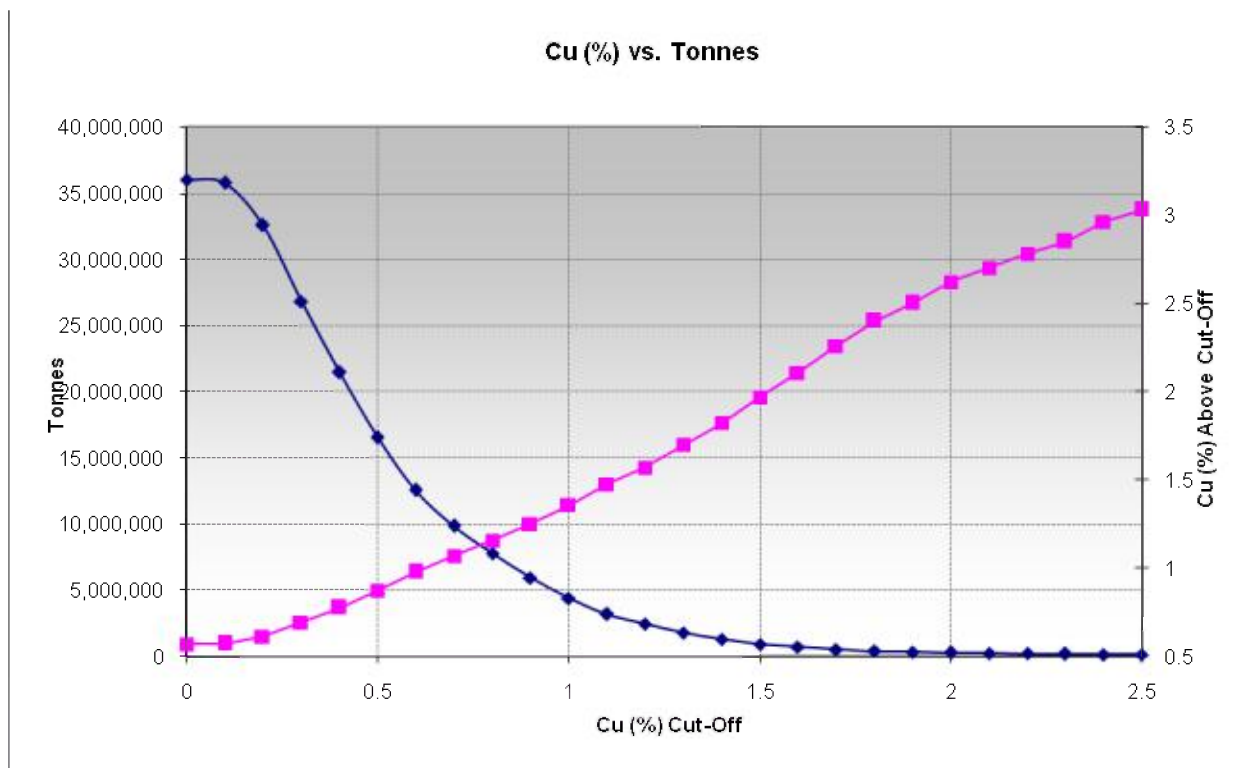


Figure 17-4. Grade Tonnage curve of the Horden Lake Deposit Mineral Resource Estimate.

The mineral resources in this press release conform to the Canadian Institute of Mining, Metallurgy and Petroleum (CIM) Standards on Mineral resources and Reserves, Definitions and Guidelines prepared by the CIM Standing Committee on Reserve Definitions and adopted by the CIM Council December 11, 2005.

18.0 OTHER RELEVANT DATA AND INFORMATION

No additional information or explanation is necessary to make this technical report more understandable.

19.0 CONCLUSIONS

The Horden Lake Property is located ~140 km north of Matagami in Township 1408, James Bay District, Quebec. Southampton Ventures holds a property position totaling 5258.13 ha of claims centred on the Horden Lake Deposit. The claims are divided into three separate groups which are not contiguous: Northeastern Claims, Horden Lake Deposit Claims and Southwestern Claims. Claims within each group are contiguous, except for one claim that is not contiguous within the Horden Lake Deposit Claim group. The Northeastern Claims consist of 88 claims covering 4673.81 ha, the Horden Lake Deposit Claims



consist of 9 claims covering 122.09 ha and the Southwestern Claims consist of 9 claims covering 462.23 ha.

The Horden Lake Property is located in the Nemiscau Subprovince of the Superior Province of the Canadian Shield. In the Horden Lake area, the dominant rock types are metavolcanic and metasedimentary rocks. Meta-gabbro occurs as a long and narrow, concordant body and has inclusions of metasedimentary rocks.

The mineralization encountered during the 2008 drilling program occurred along the contact of the gabbroic complex and metasedimentary rocks. Two mineralization styles were observed. The first style is prominent in the medium- to coarse-grained gabbro and near the contact with the metasedimentary rocks. It consists of disseminated to blebby pyrrhotite, pyrite and chalcopyrite (locally up to 25% sulphides). The second style of mineralization ranges from large sulfide blebs to massive sulfide consisting dominantly of pyrrhotite, pyrite and chalcopyrite in shear zones along the contact between gabbro and metasedimentary rocks. Locally, sphalerite and galena occur in altered gabbro.

During winter 2008, Phase 1 exploration program was completed on the Horden Lake property. It included a total of 18,136 m of core drilled in 73 drill holes on the Horden Lake Claims. A total of 6551 drill core samples were assayed. Some of the highlights from the 2008 drilling program include 12.00 m of 2.28 %Cu and 0.34 %Ni in HN-08-29 and 11.25 m of 2.01 %Cu and 0.11 %Ni from HN-08-30.

A Fugro HeliGEM[®] II survey was commissioned by Southampton in February 2008 to fly three profile lines over the Horden Lake deposit and 131 and 35 lines over the exploration areas to the NE and SW blocks respectively. A total of 592 line-km were collected at a line spacing of 100 m. A total of eight targets were identified based on magnetic and conductive responses: one target for Horden Lake Deposit, six targets for the Northeast Claims and one target for the Southwest claims.

The Mineral Resource Estimate was calculated using a database of 95 drill holes previously completed by INCO in 1969 and 73 drill holes completed by Southampton in 2008. The Estimate was completed using the Ordinary Kriging method and is stated below at 0.5% and 1.0% Cu block cut-offs.

0.5 % Cu Block Cut off

Category	Tonnes	Cu (%)	Ni (%)
Indicated	8,759,200	0.88	0.21
Inferred	7,791,195	0.87	0.25



1.0 % Cu Block Cut off

Category	Tonnes	Cu (%)	Ni (%)
Indicated	2,416,000	1.37	0.25
Inferred	1,997,600	1.35	0.34

0.5 % Cu Block Cut off

Category	Tonnes	g Pd/t	g Au/t	g Ag/t
Indicated	8,759,200	0.15	0.15	10.44

1.0 % Cu Block Cut off

Category	Tonnes	g Pd/t	g Au/t	g Ag/t
Indicated	2,416,000	0.16	0.18	13.50

Blocks lying within 50 metres of drill intercepts completed in 2008 (along with other criteria) were assigned the Indicated category. Blocks lying greater than 50 metres from a 2008 drill intercept (including blocks estimated primarily with INCO intercepts) were assigned the Inferred category. Maximum search distances were derived from variogram studies.

The mineral resources in this report conform to the Canadian Institute of Mining, Metallurgy and Petroleum (CIM) Standards on Mineral resources and Reserves, Definitions and Guidelines prepared by the CIM Standing Committee on Reserve Definitions and adopted by the CIM Council December 11, 2005.

It is concluded by CCIC that the Horden Lake Property is a high quality, early stage, exploration project and that future exploration programs should be pursued aggressively.

Given the fact that early in the stages of application of a systematic exploration program Southampton has made new discoveries, CCIC concludes that, given the size of the project area, significant potential remains for early stage discovery on the Horden Lake Property.

20.0 RECOMMENDATIONS

Geophysical Targets

On the basis of the current geotechnical review and the Mineral Resource estimate completed by CCIC, the following recommendations for exploration work are proposed for the Horden Lake Property:

Overall, the dataset is of high quality, with minimal spurious recordings. Therefore the dataset is useful to interpret geological structures and lithologies, and help identify conductive zones that could host Horden



Lake Ni-Cu (+/-PGE) type mineralization. In total, eight new geophysics targets have been selected and are summarised in the Appendix 3.

Where possible it is recommended that the geophysical anomalies be ground checked. Drill logs should be carefully examined in the area of the lake with respect to the mafic-ultramafic rocks that host the Horden Lake mineralization. To further realize the potential of the electromagnetic dataset discussed in this report, it is recommended to collect physical rock properties on the drill core from the Horden Lake deposit and surrounding area. This data can be incorporated into an inversion of the geophysics (both magnetic and electromagnetics) to produce a better constrained 3D model of the deposit and aid in the identification of additional new targets. The entire dataset should be sent to the University of British Columbia - Geophysical Inversion Facility (UBC-GIF) in Vancouver (a partner of Mira Geoscience). They can provide an integrated, constrained 3-D inversion and this can then be imported into the Common Earth Model. Public datasets may be available from the Ressources Naturelles et Faune de Québec, a provincial resource, and assist in gaining a better understanding of the geology and ore-development processes within the area. Integration of these types of datasets has proven to provide useful vectoring for new discoveries in known deposit areas (Gordon, 2007).

Diamond drilling

It is recommended that the 5000 m drilling program be conducted on geophysical targets to search for additional mineralization on the Horden Lake Deposit, Northeast and Southwest claim groups.

21.0 PROPOSED BUDGET

The cost for the proposed geophysics work is \$41,302.80 and the cost for 5000 m of diamond drilling is \$1,378,212.00 (Table 21-1). The estimated total cost of geophysics and diamond drilling for the next phase of the Horden Lake project is \$1,419,514.80.



22.0 REFERENCES

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23.0 STATEMENT OF AUTHORSHIP

Table 23-1. Each author is responsible for the following sections.

author	Section number	Section title
Iain Kelso	Entire report, including 17.0	Entire report, including Mineral resource and reserve estimates
Elisabeth Ronacher	6.0, 7.0, 8.0, 9.0, 10.0	Property History, Geological Setting, Deposit Type, Mineralization, Exploration
Julie Selway	4.2, 13.2, 13.3, 14.2, 14.3, 15.0	Claim status, Sample Preparation and Analysis, Data Verification, Adjacent Properties
Jenna McKenzie	10.1	Geophysics
Luc Harnois	11.0, 14.1	Drilling, Site visit

This Report titled "Independent Technical Report, Horden Lake Property, Quebec, Canada", and dated April 15th, 2009 was prepared and signed and sealed by the following authors:

"Iain Kelso"

Iain Kelso, P.Geol.
Dated April 15th, 2009
Bogotá, Colombia

"Elisabeth Ronacher"

Elisabeth Ronacher, P.Geol.
Dated April 15th, 2009
Sudbury, Ontario

"Julie Selway"

Julie Selway, P.Geol.
Dated April 15th, 2009
Sudbury, Ontario

"Jenna McKenzie"

Jenna McKenzie, P.Geol.
Dated April 15th, 2009
Toronto, Ontario

"Luc Harnois"

Luc Harnois, P.Geol.
Dated April 15th, 2009
Urumqi, China



Appendix 1

Certificates of Qualification





Caracle Creek International Consulting Inc.

Iain Kelso
25 Froid Road
Sudbury, Ontario, Canada, P3C 4Y9
Telephone: 705-671-1801
Email: kelso@cciconline.ca

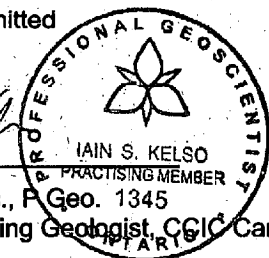
CERTIFICATE OF AUTHOR

I, Iain Kelso, do hereby certify that:

1. I am an Associate Consulting Geologist for the geological consulting firm of Caracle Creek International Consulting Inc. Canada (CCIC).
2. I graduated with a Bachelor of Science - Honours degree in geology from Lakehead University in 2002.
3. I am a member of the Association of Professional Geoscientists of Ontario (member # 1345).
4. I have worked as a geologist within the mineral industry for over 7 years.
5. I have had no prior involvement with the Property that forms the subject of this Technical Report.
6. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
7. I am independent of the parties involved in the transaction for which this report is required, other than providing consulting services.
8. I have read NI43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.
9. I am jointly responsible for the preparation of the Technical Report titled "Independent Technical Report, Horden Lake Property, Quebec, Canada", dated April 15, 2009 and prepared for Southampton Ventures Inc.
10. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them, including electronic publication in the public company files on their websites accessible by the public.

Dated this 15th Day of April, 2009.

Respectfully Submitted



Iain Kelso, H.B.Sc., P. Geo. 1345
Associate Consulting Geologist, CCIC Canada





Caracle Creek International Consulting Inc.

Elisabeth Ronacher
25 Frood Road
Sudbury, Ontario, Canada, P3C 4Y9
Telephone: 705-671-1801
Email: eronacher@cciconline.ca

CERTIFICATE OF AUTHOR

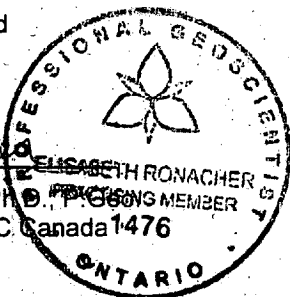
I, Elisabeth Ronacher, do hereby certify that:

1. I am employed as Project Manager for the geological consulting firm of Caracle Creek International Consulting Inc. Canada (CCIC).
2. I hold the following academic qualifications: M.Sc. Geology (1997), University of Vienna, Vienna, Austria; Ph.D. Geology (2002), University of Alberta, Edmonton, Canada.
3. I am a member in good standing of the Association of Professional Geologists of Ontario (APGO), member # 1476.
4. I have worked as a geologist for 10 years in academia and industry.
5. I have had no prior involvement with the Property that forms the subject of this Technical Report.
6. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
7. I am independent of the parties involved in the transaction for which this report is required, other than providing consulting services.
8. I have read the NI 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.
9. I am jointly responsible for the preparation of the Technical Report titled "Independent Technical Report, Horden Lake Property, Quebec, Canada", dated April 15th, 2009 and prepared for Southampton Ventures Inc.
10. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them, including electronic publication in the public company files on their websites accessible by the public.

Dated this 15th Day of April, 2009.

Respectfully Submitted

Elisabeth Ronacher, Ph.D., P. Geol. Eng. Member
Project Manager, CCIC, Canada 1476





Ordre des géologues
du Québec

Mr. Elisabeth Ronacher
667, Tynne St.
Sudbury ON P3G 1J5

November 10, 2009

Objet : Autorisation spéciale
Re: Special Authorization

Madame,

Je suis heureux de vous décerner l'autorisation spéciale **numéro 132**, conformément à l'article 33 du Code des professions.

Vous êtes ainsi autorisé à exercer la géologie dans le cadre d'un projet pour le compte de Southampton Ressources/Quetzal Energy, tel que décrit dans votre demande d'autorisation. Cette autorisation est valide du 5 novembre 2009 au 31 Janvier 2010.

Nous restons à votre disposition et vous prions d'agréer, l'expression de nos meilleures salutations.

Mrs,

*I am pleased to issue a Special Authorization **number 132**, in your name in accordance with section 33 of the Professional Code.*

You are thus entitled to practice geology in the context of a project on behalf Southampton Resources/Quetzal Energy, as described in your request for authorization. This Special Authorization is valid from November 5, 2009 to January 31, 2010.

Please contact us if you need more information.

Yours sincerely,

Robert Wares, géo., M.Sc.
Président



Caracle Creek International Consulting Inc.

Julie Selway
25 Froid Road
Sudbury, Ontario, Canada, P3C 4Y9
Telephone: 705-671-1801
Email: jselway@cciconline.ca

CERTIFICATE OF AUTHOR

I, Julie Selway, do hereby certify that:

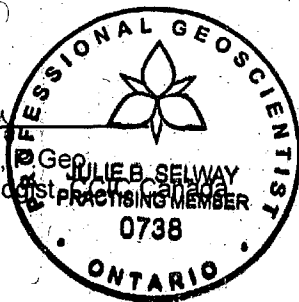
1. I am a Senior Project Geologist for the geological consulting firm of Caracle Creek International Consulting Inc. Canada (CCIC).
2. I hold the following academic qualifications: B.Sc. (Hons) Geology (1991) Saint Mary's University; M.Sc. Geology (1993) Lakehead University; Ph.D. Mineralogy (1999) University of Manitoba.
3. I am a member of the Association of Professional Geoscientists of Ontario (Member #0738). I am a member in good standing of the Mineralogical Association of Canada, Geological Association of Canada and Mineralogical Society of America.
4. I have worked as a geologist for 15 years with academia and industry on a variety of exploration properties such as gold, Ni-Cu-PGE and rare-element pegmatites.
5. I have had no prior involvement with the Property that forms the subject of this Technical Report.
6. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
7. I am independent of the parties involved in the transaction for which this report is required, other than providing consulting services.
8. I have read NI-43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.
9. I am jointly responsible for the preparation of the Technical Report titled "Independent Technical Report, Horden Lake Property, Quebec, Canada", dated April 15th, 2009 and prepared for Southampton Ventures Inc.
10. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them, including electronic publication in the public company files on their websites accessible by the public.

Dated this 15th Day of April, 2009.

Respectfully Submitted

Julie Selway

Julie Selway, Ph.D., Geologist
Senior Project Geologist





Caracle Creek International Consulting Inc.

Jenna McKenzie
34 King St. East, 9th Floor
Toronto, Ontario, Canada, M5C 2X8
Telephone: 416-368-1801
Email: jmckenzie@cciconline.ca

CERTIFICATE OF AUTHOR

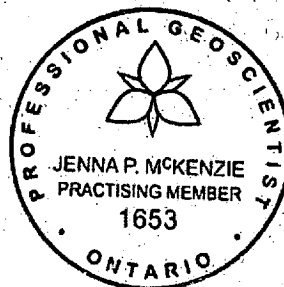
I, Jenna McKenzie, do hereby certify that:

1. I am a Project Geophysicist for the geological consulting firm of Caracle Creek International Consulting Inc. Canada (CCIC).
2. I hold the following academic qualifications: Hons.B.Sc. Physics: Geophysics (2002) University of Toronto.
3. I am a member of the Association of Professional Geoscientists of Ontario (Member #1653). I am a member in good standing of the Canadian Exploration Geophysical Society (KEGS) and the Society of Exploration Geophysicists (SEG).
4. I have worked as a geophysicist for seven years in industry and have worked on a variety of properties including diamond, oil-industry seismic processing, gold, potash, and Ni-Cu-PGE.
5. I have had no prior involvement with the Property that forms the subject of this Technical Report.
6. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
7. I am independent of the parties involved in the transaction for which this report is required, other than providing consulting services.
8. I have read NI-43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.
9. I am jointly responsible for the preparation of the Technical Report titled "Independent Technical Report, Horden Lake Property, Quebec, Canada", dated April 15th, 2009 and prepared for Southampton Ventures Inc.
10. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them, including electronic publication in the public company files on their websites accessible by the public.

Dated this 15th Day of April, 2009.

Respectfully Submitted

Jenna McKenzie, Hons.BSc., P.Geo
Project Geophysicist, CCIC Canada





Luc Harnois
25 Froid Road
Sudbury, Ontario, Canada, P3C 4Y9
Telephone: 705-671-1801
Email: harnois@cciconline.ca

CERTIFICATE OF AUTHOR

I, Luc Harnois, do hereby certify that:

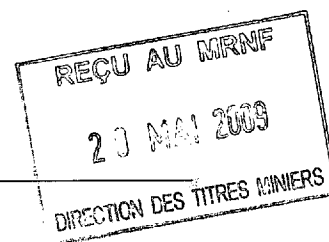
1. I am employed as a Project Manager for the geological consulting firm of Caracle Creek International Consulting Inc. Canada (CCIC).
2. I am a graduate of Université du Québec à Montréal, Department of Earth Sciences, Montréal, 1980. I completed a M.Sc. (Université du Québec à Montréal, Department of Earth Sciences, Montréal, 1983) and a Ph.D. (Carleton University, Department of Geology, Ottawa, 1987).
3. I am a member in good standing of Ordre des Géologues du Québec (OGQ; member #478). Other memberships include Association of Professional Geoscientists of Ontario (APGO; member #1355) and Association of Professional Engineers and Geoscientists of the Province of Manitoba (APEGM; member #31170G).
4. I have been employed in the mineral exploration field world-wide for an aggregate total of 5 years, in positions ranging from junior geologist to project manager. I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements as a Qualified Person for the purposes of NI 43-101.
5. I have no direct or indirect interest in the Property, nor do I expect to receive any direct or indirect interest in the Property.
6. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
7. I am independent of the parties involved in the transaction for which this report is required, other than providing consulting services.
8. I have read NI-43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form. I did visit the Property described in this report from 31/01/2008 to 28/02/2008 and from 11/03/2008 to 22/03/2008.
9. I am jointly responsible for the preparation of the Technical Report titled "Independent Technical Report, Horden Lake Property, Quebec, Canada", dated April 15th, 2009 and prepared for Southampton Ventures Inc.
10. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them, including electronic publication in the public company files on their websites accessible by the public.

Dated this 15th Day of April, 2009.

Respectfully Submitted

Luc Harnois

Luc Harnois, Ph.D., P. Geo.
Project Manager, CCIC Canada



810558



June 5, 2007

Bedrock Capital Corporation Ltd.
3670 McKechnie Avenue
West Vancouver, British Columbia
V7V 2M6

Attention: Paul Matysek

Dear Sirs:

Re: Purchase of Shares and Debt of Nemiscau Mine Limited ("Nemiscau")

This letter agreement (the "**Letter Agreement**") outlines the basis on which Southampton Ventures Inc. ("**Southampton**") agrees to purchase from Bedrock Capital Corporation Ltd. ("**Bedrock**") and Bedrock agrees to sell to Southampton (the "**Transaction**") the sole, exclusive and immediate right to acquire 95% of the issued and outstanding shares (the "**Nemiscau Shares**") in the capital of Les Mines Nemiscau Ltee/Nemiscau Mines Limited ("**Nemiscau**"), a corporation incorporated under the laws of the Province of Quebec as well as debt (the "**Nemiscau Debt**") due and owing by Nemiscau to the Original Owner in the amount of CDN\$357,216.90 (the "**Right**"). Bedrock has advised Southampton that Nemiscau is the owner of those mining claims set out in Schedule "A" attached hereto (the "**Claims**").

Bedrock has also advised Southampton that Bedrock has the sole, exclusive and immediate right and option to acquire the Nemiscau Shares and the Nemiscau Debt (the "**Nemiscau Option**") pursuant to an option agreement dated as of May 10, 2007 (the "**Nemiscau Option Agreement**") entered into between Bedrock and 2090720 Ontario Inc. (the "**Original Owner**"). The grant of the Right shall be evidenced by and consummated as and by way of the assignment of the Nemiscau Option Agreement from Bedrock to Southampton (the "**Assignment**") pursuant to an assignment agreement (the "**Assignment Agreement**") to be executed and delivered by each of Southampton, Bedrock and the Original Owner on Closing (as hereinafter defined).

For greater certainty and without limitation, Southampton is entering into this Letter Agreement on the basis of representations from Bedrock to the effect that the Nemiscau Option Agreement is in good standing and in full force and effect, unamended.

This Letter Agreement shall be binding upon Southampton and Bedrock (the "Parties" and individually, a "Party") in accordance with its terms.

1. Consideration

The consideration payable by Southampton on Closing for the purchase and sale of the Right will be 6,000,000 common shares in the capital of Southampton (the "Southampton Shares"). The Southampton Shares shall be (i) issued as fully-paid and non-assessable shares in the capital of Southampton, free and clear of all any and all liens, mortgages, debts, voting rights, charges, security interests, encumbrances and claims of others (the "Encumbrances"), (ii) freely-tradable shares, subject to any restricted periods required by the TSX Venture Exchange (the "TSX-V") and the resale provisions of Multilateral Instrument 45-102 of the Canadian Securities Administrators ("MI 45-102"), and (iii) listed and posted for trading on the TSX-V at Closing. On Closing, the Southampton Shares shall be jointly directed by Bedrock and the Original Owner to be issued as follows: (a) the number of shares to be issued to the Original Optionor shall be such that the product of such number and the five day volume weighted average price of the Southampton Shares on the TSX-V equals CDN\$4,950,000 (the "Nemiscau Option Agreement Payment Shares") and (b) the number of shares to be issued to Bedrock shall be 6,000,000 minus the Nemiscau Option Agreement Payment Shares (the "Bedrock Payment Shares").

Further to the Closing arrangements as herein set forth, Bedrock and Southampton agree and acknowledge that the Right shall be exchanged by Bedrock and Southampton for the Bedrock Payment Shares pursuant to and in accordance with section 85 of the *Income Tax Act* (Canada) (the "ITA").

On Closing, Southampton shall covenant and agree to make and file an election under subsection 85(1) of the ITA with Bedrock in the prescribed form and within the time required by subsection 85(6) of the ITA, in respect of the transfer of the Right from Bedrock to Southampton pursuant to the Assignment Agreement and the Closing procedures herein set forth, so that for Canadian income tax purposes, Bedrock's proceeds of disposition and Southampton's cost of the Right shall be equal to the amount determined by Bedrock subject to the limitations set out in subsection 85(1) of the ITA.

On Closing, Southampton shall covenant and agree to make and file an election under subsection 85(1) of the ITA with the Original Owner in the prescribed form and within the time required by subsection 85(6) of the ITA, with respect to the transfer of the Nemiscau Shares from the Original Owner to Southampton pursuant to the Assignment Agreement and the Closing procedures set forth, so that for Canadian tax purposes, the Original Owner's proceeds of disposition and Southampton's cost of the Nemiscau Shares shall be equal to the amount determined by the Original Owner subject to the limitations set out in subsection 85(1) of the ITA.

2. Completion Deadline

Southampton and Bedrock shall use their best efforts to complete the Transaction (the "Closing") on or prior to July 15, 2007 (the "Completion Deadline"). For greater certainty, in the event that the Transaction has not been completed by the Completion Deadline, each of Southampton and Bedrock shall be entitled to terminate their respective obligations hereunder. Section 12 hereof shall survive any such termination.

3. Closing and Closing Procedure

Closing of the Transaction shall take place at the offices of Southampton or its counsel on the closing date (the "Closing Date") which shall be no later than the fifth (5th) business day in the City of Toronto following the date on which all conditions to Closing have been fulfilled to the satisfaction of the Party in whose favour such conditions apply (or been waived by such Party) or any other place and date agreed to by the Parties. Closing under this Agreement shall be contemporaneous with closing as described in section 5 of the Nemiscau Option Agreement. Completion of the Transaction shall be effective as of the Closing Date.

Subject to satisfaction or waiver by the relevant Party of the conditions of Closing set forth herein, at Closing, without limitation to any other provision of this Letter Agreement, including those providing for closing deliveries; (i) Bedrock shall have paid to the Original Owner the total sum of CDN\$550,000 (and shall have provided due proof of such payment to the satisfaction of Southampton, acting reasonably); (ii) Southampton, Bedrock and the Original Owner shall execute and deliver the Assignment Agreement, which, among other things, shall acknowledge the payment by Bedrock of the sum set forth in subsection 3(i), as partial exercise of the Nemiscau Option; (iii) Southampton shall deliver certificates representing the Southampton Shares as contemplated in section 1 hereof; (iv) Closing shall occur under this Letter Agreement and closing shall occur as provided in section 5 of the Nemiscau Option Agreement such that the Original Owner shall deliver certificates representing the Nemiscau Shares to Southampton recorded in the name of Southampton and the Original Owner shall deliver to Southampton a full assignment of the Nemiscau Debt on terms and conditions satisfactory to Southampton and such that closing under the Nemiscau Option Agreement shall occur between the Original Owner and Southampton as assignee.

4. **Representations and Warranties of Southampton**

Southampton hereby represents and warrants to and in favour of Bedrock as follows and acknowledges that Bedrock is relying upon such representations and warranties in connection with the execution and delivery of this Letter Agreement:

(a) Southampton is a validly subsisting corporation under the laws of the Province of Ontario and has the corporate power and authority, and holds all material licenses and permits required for Southampton to own or lease its property and assets and to carry on its business as now conducted by it.

(b) Neither the execution and delivery of this Letter Agreement by Southampton nor the consummation of the Transaction will conflict with or result in: (i) a violation, contravention or breach of any of the terms, conditions or provisions of any agreement or instrument to which Southampton is a party or by which Southampton is bound or constitute a default by Southampton thereunder, or under any statute, regulation, judgment, decree or law to which Southampton is subject or bound, or result in the creation or imposition of any Encumbrance upon the assets of Southampton; or (ii) a violation by Southampton of any law or regulation or any applicable order of any court, arbitrator or governmental authority having jurisdiction over Southampton, other than any such violations, contraventions, breaches, defaults or Encumbrances that individually or in the aggregate would not reasonably be expected to have a material adverse effect on Southampton.

(c) Other than as publicly disclosed or as set forth herein, no person (which word shall be given the broadest interpretation possible in this Letter Agreement) has any agreement or option or any right or privilege capable of becoming an agreement or option for the purchase from Southampton of any of the material assets of Southampton or securities of Southampton.

(d) There are currently outstanding 28,057,366 common shares in the capital of Southampton and 12,218,683 securities which are convertible into common shares in the capital of Southampton.

(e) Southampton has all necessary power, authority and capacity to enter into this Letter Agreement and all other agreements and instruments to be executed by Southampton as contemplated by this Letter Agreement and to carry out the obligations of Southampton under this Letter Agreement and such other agreements and instruments.

(f) The execution and delivery of this Letter Agreement have been authorized by all necessary corporate action of Southampton and this Letter Agreement constitutes a valid and binding obligation of Southampton, enforceable against it in accordance with its terms subject, however, to limitations with respect to enforcement imposed by law in connection with bankruptcy, insolvency, reorganization or other laws affecting creditors' rights generally and to the extent that equitable remedies such as specific performance

and injunctions are only available in the discretion of the court from which they are sought.

(g) Southampton has agreed to pay a finder's fee consisting of 150,000 common shares in its capital to Pacific International Securities Inc. on or as soon as possible following Closing, but Southampton has not entered into any agreement that would entitle any person to any valid claim against Bedrock for a broker's commission, finder's fee or any like payment in respect of the Transaction or any other matter contemplated by this Letter Agreement.

(h) The audited financial statements of Southampton for the year ended December 31, 2006 have been prepared in accordance with Canadian generally accepted accounting principles applied on a basis consistent with that for the audited financial statements of Southampton for the fiscal year ended December 31, 2005, are true, correct and complete in all material respects and present fairly the financial condition of Southampton as at December 31, 2006, including assets and liabilities as at December 31, 2006 and results of operations of Southampton for the year ended December 31, 2006.

(i) Southampton is not subject to any cease trade or other order of any applicable stock exchange or securities regulatory authority and, to the knowledge of Southampton, no investigation or other proceedings involving Southampton which may operate to prevent or restrict trading of any securities of Southampton are currently in progress or pending before any applicable stock exchange or securities regulatory authority.

(j) Southampton does not have any material liability or obligation, whether accrued, absolute, contingent or otherwise, not reflected in its latest publicly-disclosed consolidated financial statements.

(k) There is no bankruptcy, liquidation, winding-up or other similar proceeding pending or in progress or, to the knowledge of Southampton, threatened against Southampton before any court, regulatory or administrative agency or tribunal.

(l) There are no actions, suits or other legal proceedings currently pending, or to the knowledge of Southampton, threatened against Southampton.

(m) Southampton is current in the filing of all public disclosure documents required to be filed by Southampton under applicable securities laws and stock exchange rules, there are no filings that have been made on a confidential basis and all of such filings comply with the requirements of all applicable securities laws and the rules, policies and instruments of all regulatory or administrative bodies having jurisdiction over Southampton, except where such non-compliance has not and would not reasonably be expected to have a material adverse effect on Southampton.

(n) The common shares in the capital of Southampton are listed and posted for trading on the TSX-V and subject to the terms and conditions of this Letter Agreement, on Closing the Southampton Shares shall form part of a class of shares that are listed and posted for trading on the TSX-V.

5. **Representations and Warranties of Bedrock**

Bedrock hereby represents and warrants to and in favour of Southampton as follows and acknowledges that Southampton is relying upon such representations and warranties in connection with the execution and delivery of this Letter Agreement:

(a) Bedrock is a validly subsisting corporation under the laws of its jurisdiction of incorporation and has the corporate power and authority, and holds all material licenses and permits required for it to own or lease its property and assets and to carry on its business as now conducted by it.

(b) Neither the execution and delivery of this Letter Agreement by Bedrock nor the consummation of the Transaction will conflict with or result in: (i) a violation, contravention or breach of any of the terms, conditions or provisions of any agreement or instrument to which Bedrock is a party or by which Bedrock is bound or constitute a default by Bedrock thereunder, or under any statute, regulation, judgment, decree or law by which Bedrock is subject or bound, or result in the creation or imposition of any Encumbrance upon the assets of Bedrock; or (ii) a violation by Bedrock of any law or regulation or any applicable order of any court, arbitrator or governmental authority having jurisdiction over Bedrock; other than any such violations, contraventions, breaches, defaults or Encumbrances that individually or in the aggregate would not reasonably be expected to have a material adverse effect on Bedrock.

(c) No person (which word shall be given the broadest interpretation possible in this Letter Agreement) has any agreement or option or any right or privilege capable of becoming an agreement or option to purchase from Bedrock any of its material assets including without limitation, the rights of Bedrock under the Nemiscau Option Agreement.

(d) Bedrock has all necessary power, authority and capacity to enter into this Letter Agreement and all other agreements and instruments to be executed by Bedrock as contemplated by this Letter Agreement and to carry out the obligations thereof under this Letter Agreement and such other agreements and instruments.

(e) The execution and delivery of this Letter Agreement have been authorized by all necessary corporate action of Bedrock and constitutes a valid and binding obligation of Bedrock enforceable against Bedrock in accordance with its terms subject, however, to limitations with respect to enforcement imposed by law in connection with bankruptcy, insolvency, reorganization or other laws affecting creditors' rights generally and to the extent that equitable remedies such as specific performance and injunctions are only available in the discretion of the court from which they are sought.

(f) Bedrock has not entered into any agreement that would entitle any person to any valid claim against Southampton for a broker's commission, finder's fee or any like payment in respect of the Transaction or any other matter contemplated by this Letter Agreement.

(g) There is no bankruptcy, liquidation, winding-up or other similar proceeding pending or in progress or, to the knowledge of Bedrock, threatened against Bedrock with respect to the Nemiscau Option Agreement.

(h) There are no actions, suits or other legal proceedings currently pending, or to the knowledge of Bedrock, threatened against Bedrock whether with respect to its assets or business operations or otherwise.

(i) Bedrock is the sole owner of rights in and under the Nemiscau Option Agreement, with good and marketable title thereto, free and clear of all royalties, liens, charges and Encumbrances of any kind. The Nemiscau Option Agreement is in full force and effect, unamended as of the date hereof and as of the date hereof, no default exists on the part of any party to the Nemiscau Option Agreement.

(j) There are no outstanding rights, agreements or obligations, or understandings capable of becoming rights, agreements or obligations, to acquire any right or title to the interest of Bedrock in and to the Nemiscau Option Agreement and Bedrock has not made, committed, executed or suffered any act, deed, matter or thing whereby its interest in and to the Nemiscau Option Agreement may be materially encumbered in title or otherwise.

(k) There are no material contracts, non-governmental prohibitions covenants, controls or indemnities affecting the interest of Bedrock in and to the Nemiscau Option Agreement.

(l) Bedrock has not granted any person (which word shall be given the broadest interpretation possible in this Letter Agreement) access to or the right to enter upon and explore or investigate the mineral potential of the Claims or the assets and business operations of Nemiscau nor is Bedrock aware of any such exploration or investigation having been conducted thereon.

(m) Bedrock has and will continue to make available to Southampton all information in its possession or under its control relating to the Claims, the Nemiscau Option Agreement, the Nemicasu Shares and the Nemiscau Debt and during the currency of this Letter Agreement Bedrock shall ensure that the Original Owner shall continue to make available to Southampton all information in its possession or under its control relating to the Claims, the Nemiscau Option Agreement, the Nemicasu Shares and the Nemiscau Debt.

(n) Bedrock re-iterates to and in favour of Southampton to the best of its knowledge, information and belief, the representations and warranties of the Original Owner made

to and in favour of Bedrock in the Nemiscau Option Agreement. Bedrock has no knowledge or any facts and or circumstances which would render untrue in any respect, each of the representations and warranties of the Original Owner.

(o) Any disclosure relating to the Transaction, Bedrock, Nemiscau, the Nemiscau Option Agreement, the Nemiscau Shares, the Nemiscau Debt and the Claims provided to Southampton by Bedrock complies with all applicable laws and does not contain any misrepresentation (as such term is defined in the *Securities Act* (Ontario)) or any untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements contained therein not misleading in light of the circumstances in which they are made (other than with respect to any information relating to Southampton).

6. Covenants of Southampton

Southampton hereby covenants and agrees with Bedrock as follows:

(a) Subject to the satisfactory completion of the Due Diligence Review, Southampton will use its best efforts to satisfy all of the conditions precedent to the completion of the Transaction and will use its best efforts thereof to apply for and obtain, and will cooperate with Bedrock in applying for and obtaining, the consents, orders and approvals necessary for Southampton or Bedrock, respectively, to complete the Transaction.

(b) Southampton shall make application to the TSX-V to list thereon the Southampton Shares.

(c) From the date hereof until the earlier of the date this Letter Agreement is terminated in accordance with the terms hereof and the Closing Date, Southampton shall conduct its business only in, and shall not take any action except in the usual, ordinary and regular course of business of Southampton and consistent with its past practices; provided that, for greater certainty, nothing in this section shall prohibit Southampton from undertaking any other property or business acquisitions or financing transactions.

7. Covenants of Bedrock

Bedrock hereby covenants and agrees with Southampton as follows:

(a) Between the date of the execution hereof and the Closing (or other termination of this Letter Agreement) Bedrock shall not take any action to initiate the exercise of or to exercise the Nemiscau Option contained in the Nemiscau Option Agreement or to acquire a 100% undivided interest in any of the Nemiscau Shares, the Nemiscau Debt and/or the Claims.

(b) Bedrock will not assign, transfer, grant, option (other than as provided in this Letter Agreement) and/or encumber its rights in and under the Nemiscau Option Agreement, the Nemiscau Option Agreement and/or the Claims.

(c) Bedrock will not consent to or initiate discussions with the Original Owner relating to an amendment, termination or revision of the Nemiscau Option Agreement without the prior written consent of Southampton (other than pursuant to the consummation of the Transaction as provided for in this Letter Agreement).

(d) Bedrock will use its best efforts to satisfy all of the conditions precedent to the completion of the Transaction and will use its best efforts thereof to apply for and obtain, and will cooperate with Southampton in applying for and obtaining, the consents, orders and approvals necessary for Bedrock or Southampton, respectively, to complete the Transaction and comply with all applicable regulatory requirements.

8. Mutual Conditions

The following are mutual conditions precedent for the completion of the Transaction

(a) The Southampton Shares shall have been conditionally approved for listing on the TSX-V.

(b) There shall have been no action taken under any applicable law or by any government or governmental or regulatory authority which: (i) makes it illegal or otherwise directly or indirectly restrains, enjoins or prohibits the completion of the Transaction; or (ii) results or could reasonably be expected to result in a judgment, order, decree or assessment of damages, directly or indirectly, relating to the Transaction, which is, or could be, materially adverse to Southampton or Bedrock, respectively.

9. Conditions Precedent to the Obligations of Southampton

The obligations of Southampton to complete the Transaction shall be subject to the satisfaction of, among others, the following conditions:

(a) Bedrock shall have performed and complied in all material respects with all of the covenants and obligations thereof required to be performed by Bedrock prior to Closing.

(b) The Original Owner shall have performed and complied in all material respects with all of the obligations of the Original Owner as contemplated in this Letter Agreement required to be performed by the Original Owner prior to Closing.

(c) The representations and warranties of Bedrock contained herein shall be true and accurate, in all material respects, when made and on and as of Closing with the same force and effect as if they had been made at Closing.

(d) The Nemiscau Option Agreement shall remain in full force and effect unamended and no event of default shall exist on the part of any party thereto.

(e) The Nemiscau Shares and the Nemiscau Debt shall be owned by the Original Owner, free and clear of all Encumbrances, save and except for the right in and to the Original Owner to receive a 1.0% net smelter return royalty on the sale thereof, all as provided in the Nemiscau Option Agreement.

(f) All governmental, court, regulatory, third person and other approvals, consents, waivers, orders, exemptions, agreements, closing deliveries and all amendments and modifications to agreements, indentures and arrangements which Southampton, acting reasonably, shall consider necessary or desirable in connection with the Transaction and not otherwise specifically described in this Letter Agreement shall have been obtained in form satisfactory to Southampton acting reasonably.

(g) Any persons having any entitlements to payments in the event of a change of control of Nemiscau pursuant to their respective employment and consulting agreements with Nemiscau shall have waived their right to such entitlements.

(h) There shall not have been any event or change that has had or would be reasonably likely to have a material adverse effect on Nemiscau and for the purposes hereof, material adverse effect means a material adverse effect on the business, operations, results of operations, prospects, assets, liabilities or financial condition of Nemiscau other than any change, effect, event or occurrence: (i) relating to the global economy or securities markets in general; or (ii) affecting the worldwide mining industry in general and which does not have a materially disproportionate effect on Nemiscau.

(i) The Original Owner shall have; (i) provided its written consent to and in favour of Southampton to the Assignment and shall have executed and delivered together with the Parties, the Assignment Agreement; (ii) consented to a contemporaneous closing under the Nemiscau Option Agreement and this Letter Agreement or the Definitive Agreement, as the case may be and as contemplated herein, and (iii) provided, among others, those deliveries contemplated by subsections 3(ii) and (iv) hereof.

10. Conditions Precedent to the Obligations of the Bedrock

The obligations of Bedrock to complete the Transaction shall be subject to the satisfaction of, among others, the following conditions:

(a) Southampton shall have performed and complied in all material respects with all of the covenants and obligations thereof required to be performed by Southampton prior to the completion of the Transaction.

(b) The representations and warranties of Southampton contained herein, other than with respect to the aggregate number of issued and outstanding common shares and convertible securities as provided in subsection 5(d) shall be true and accurate, in all

material respects, when made and on and as of Closing on with the same force and effect as if they had been made at Closing.

(c) There shall not have been any event or change that has had or would be reasonably likely to have a material adverse effect on Southampton and for the purposes hereof, material adverse effect means a material adverse effect on the business, operations, results of operations, prospects, assets, liabilities or financial condition of Southampton other than any change, effect, event or occurrence: (i) relating to the global economy or securities markets in general; or (ii) affecting the worldwide mining industry in general and which does not have a materially disproportionate effect on Southampton.

(d) The Southampton Shares shall be freely tradeable subject to the resale provisions of MI 45-102, on the basis that the issuance of the Southampton Shares was effected in reliance on the provisions of section 2.13 of Multilateral Instrument 45-106 of the Canadian Securities Administrators.

11. Termination

This Letter Agreement may be terminated by Bedrock or Southampton if the Transaction is not completed by the Completion Deadline

12. Miscellaneous

(a) **Costs.** Each of Southampton and Bedrock shall pay its own costs and expenses (including all legal, accounting and financial advisory fees and expenses) in connection with the Transaction including expenses related to the preparation, execution and delivery of this Letter Agreement and/or the Definitive Agreement, if applicable and the documents required hereunder.

(b) **Approvals.** Southampton hereby represents to Bedrock that its board of directors has authorized Southampton to proceed with the Transaction on and subject to the terms and conditions set out herein. Bedrock hereby represents to Southampton that its board of directors and shareholders have authorized Bedrock to proceed with the Transaction on and subject to the terms and conditions set out herein.

(c) **Public Announcements:** Southampton agrees to issue a press release with respect to the Transaction as soon as practicable after the date on which this Letter Agreement becomes effective and to consult with Bedrock prior to dissemination and to otherwise coordinate with Bedrock the public disclosure and presentations made by them with respect to the Transaction prior to the Closing Date. Southampton and Bedrock further agree that there will be no public announcement or other disclosure of the Transaction or of the matters dealt with herein prior to the Closing Date unless the Parties have mutually agreed thereto or unless otherwise required by applicable law or by regulatory instrument, rule or policy based on the advice of counsel. If either Party is required by applicable law or regulatory instrument, rule or policy to make a public

announcement with respect to the Transaction prior to the Closing Date, such Party hereto will provide as much notice to the other of them as reasonably possible, including the proposed text of the announcement.

(d) **Law.** This Letter Agreement shall be governed by and be construed in accordance with the laws of the Province of Ontario and the federal laws of Canada applicable therein. The Parties irrevocably attorn to the non-exclusive jurisdiction of the courts of the Province of Ontario.

(e) **Amendment.** This Letter Agreement may, at any time and from time to time, be amended by written agreement of the Parties.

(f) **Assignment.** Neither Party may assign its rights or obligations under this Letter Agreement without the prior written consent of the other Party.

(g) **Binding Effect:** This Letter Agreement shall be binding upon and shall enure to the benefit of the Parties and their respective successors and permitted assigns.

(h) **Waiver.** Any waiver or release of any of the provisions of this Letter Agreement, to be effective, must be in writing and executed by the Party granting such waiver or right.

(i) **Entire Agreement.** This Letter Agreement contains the entire agreement between the Parties with respect to the subject matter hereof and thereof and supersedes all prior agreements and understandings with respect thereto.

(j) **TSXV Approval.** The execution and delivery of this Letter Agreement by Southampton shall be subject to the receipt of the approval of the TSXV.

REMAINDER OF PAGE INTENTIONALLY BLANK

Would you kindly signify your acceptance of the terms contained herein by executing the enclosed duplicate copy hereof in the place indicated and thereafter returning such executed copy to Southampton by no later than 8:00 a.m. (Toronto time) on the 6th day of June, 2007, failing which this Letter Agreement shall be of no force or effect.

SOUTHAMPTON VENTURES INC.

By: 
Richard Patricio
President, and Chief Executive Officer


Accepted as of this _____ day of June, 2007.

BEDROCK CAPITAL CORPORATION LTD.

By: _____
Paul Matysek
Chief Executive Officer

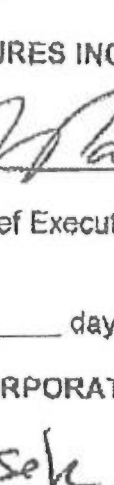
Would you kindly signify your acceptance of the ^{MP} terms contained herein by executing the enclosed duplicate copy hereof in the place indicated and thereafter returning such executed copy to Southampton by no later than 8:00 a.m. (Toronto time) on the 6th day of June, 2007, failing which this Letter Agreement shall be of no force or effect.


SOUTHAMPTON VENTURES INC.

By: 
Richard Patricio
President, and Chief Executive Officer

Accepted as of this _____ day of June, 2007.

BEDROCK CAPITAL CORPORATION LTD.

By: 
Paul Matysek
Chief Executive Officer

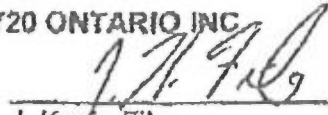
416-941-1090


By its execution and delivery hereof, capitalized terms herein being as set forth in the within letter agreement, the Original Optionor does hereby agree to and with Southampton that further to the Closing arrangements as herein set forth, that the Nemiscau Shares shall be exchanged by the Original Owner with Southampton for the Nemiscau Option Agreement Payment Shares pursuant to and in accordance with section 85 of the ITA.

Acknowledged and agreed to as of this 6 day of June, 2007.

2090720 ONTARIO INC

By:



J. Kevin Filo
Director

Schedule A

Description of Claims

CL 2008144
CL 2008145
CL 2008153
CL 2008152
CL 2008155
CL 2008162

AMENDING AGREEMENT

THIS AMENDING AGREEMENT dated as of the 20th day of JUNE, 2007

BETWEEN:

BEDROCK CAPITAL CORPORATION

(“Bedrock”)

- and -

SOUTHAMPTON VENTURES INC.

(“Southampton”)

- and -

2090720 ONTARIO INC.

(the “Company”)

WHEREAS:

A. Pursuant to a letter agreement dated as of June 5, 2007 (the “**Letter Agreement**”) between Bedrock and Southampton (as also executed by the Company), Bedrock has agreed to sell to Southampton and Southampton has agreed to purchase from Bedrock, the Nemiscau Option, originally granted pursuant to an option agreement dated as of May 10, 2007 (the “**Nemiscau Option Agreement**”) between Bedrock and the Company, on the terms and conditions more particularly described in the Letter Agreement;

B. Under the terms of the Letter Agreement, Bedrock and Southampton agreed that the Closing would be contemporaneous with the closing as described in section 5 of the Nemiscau Option Agreement; and

C. Bedrock, Southampton and the Company have agreed to extend the Closing Date, and the corresponding closing as described in section 5 of the Nemiscau Option Agreement on the terms and conditions specified in this Amending Agreement.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

1. **Interpretation**

Unless the context otherwise requires, capitalized terms used in this Amending Agreement but not defined herein shall have the meanings ascribed to them in the Letter Agreement.

2. **Amendment**

The Letter Agreement is hereby amended as follows:

- (a) the Closing Date defined in section 3 of the Letter Agreement is hereby extended to that date which is no later than the seventh (7th) business day in the City of Toronto following the date on which all conditions to Closing have been fulfilled to the satisfaction of the parties to the Letter Agreement, as more particularly described therein (the "**Amended Closing Date**").

3. **Consent of the Company**

The Company hereby acknowledges and consents to the Amendment to the Letter Agreement, as described in section 2 hereof, and agrees that the closing as described in section 5 of the Nemiscau Option Agreement shall be contemporaneous with the Amended Closing Date.

4. **Entire Agreement**

The Letter Agreement, as amended by this Amending Agreement, is confirmed, is in full force and effect and shall be read as a single agreement. Time shall remain of the essence in all respects.

5. **Further Assurances**

Each party shall execute and deliver all such further documents and do such other things as the other party may reasonably request to give full effect to this Amending Agreement.

6. **Successors and Assigns**

This Amending Agreement shall enure to the benefit of and shall be binding upon the parties, their respective successors and permitted assigns.

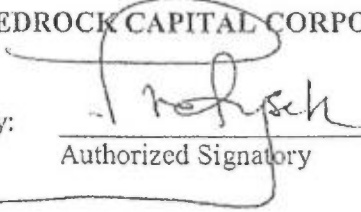
7. Counterparts

This Amending Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original and all of which taken together shall be deemed to constitute one and the same instrument. Counterparts may be executed in original or faxed form and the parties adopt any signatures received by a receiving fax machine as original signatures of the parties.

IN WITNESS WHEREOF the parties have executed this Amending Agreement.

BEDROCK CAPITAL CORPORATION

By:



Authorized Signatory

SOUTHAMPTON VENTURES INC.

By:

Authorized Signatory

2090720 ONTARIO INC.

By:

Authorized Signatory

7. Counterparts


This Amending Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original and all of which taken together shall be deemed to constitute one and the same instrument. Counterparts may be executed in original or faxed form and the parties adopt any signatures received by a receiving fax machine as original signatures of the parties.

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BEDROCK CAPITAL CORPORATION

By: _____
Authorized Signatory

SOUTHAMPTON VENTURES INC.

By: 
Authorized Signatory

2090720 ONTARIO INC.

By: _____
Authorized Signatory

7. Counterparts

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IN WITNESS WHEREOF the parties have executed this Amending Agreement.

BEDROCK CAPITAL CORPORATION

By: _____
Authorized Signatory

SOUTHAMPTON VENTURES INC.

By: _____
Authorized Signatory

2090720 ONTARIO INC.

By:  _____
Authorized Signatory



GRANT OF ROYALTY

Nemiscau Mines Ltd. (“Nemiscau”) hereby grants to 2090720 Ontario Inc. (“Ontario”) all of its right, title and interest in the Net Smelter Royalty as defined in the option agreement dated May 10, 2007 between Bedrock Capital Corporation Ltd. (“Bedrock”) and Ontario as assigned to Southampton Ventures Inc. (the “Nemiscau Option Agreement”), and more particularly described in Schedule B to the Nemiscau Option Agreement, free and clear of all liens, charges, encumbrances, mortgages and claims of others. A copy of the Nemiscau Option Agreement, including the schedule thereto, is attached hereto and forms part of this ^{wam} assignment agreement as if recited herein.

Dated this 27th day of June, 2007.

Nemiscau Mines Ltd.

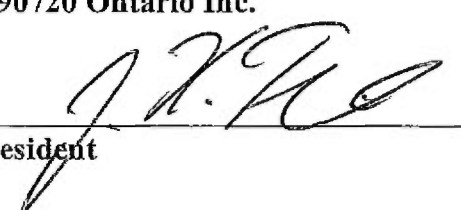
Per: _____

President



2090720 Ontario Inc.

President



OPTION AGREEMENT
BETWEEN
BEDROCK CAPITAL CORPORATION LTD.
AND
2090720 ONTARIO INC.

DATED the 10th day of May, 2007

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g.m.f.

"Smelter Returns" for a Calendar Quarter in respect of all of the Products means, for each of the Products, the average Mineral Price Quotation for the Product for a Calendar Quarter multiplied by the total number of appropriate units of measurement of the Product benefited by the Payor or credited by the smelter, refiner or other bona fide purchaser to the Payor during that Calendar Quarter.

"Subject Ore" means all ore mined by the Payor from the Property.

2. Reservation Of Royalty

The Payor shall pay and the Royalty Holder shall be entitled to receive as the royalty, 1% of Net Smelter Returns except as such percent is reduced pursuant to the Agreement.

3. NSR Deductions

In calculating the Net Smelter Royalty, the Payor shall be entitled to deduct from Smelter Returns the following costs, to the extent incurred and borne by the Payor:

- (a) all smelting, minting and refining costs, and treatment charges and penalties at the smelter or refinery including, but without being limited to, deductions charged for metal losses and penalties for impurities;
- (b) all costs of transporting the Products from the Property to a smelter, mint or refinery including, without restricting the generality of the foregoing, any and all costs of insurance in respect thereto;
- (c) all sampling, assaying and representation charges in connection with sampling and assaying carried out after the Products have left the Property;
- (d) costs and expenses of marketing the Products, if any; and
- (e) taxes levied by any government on the value of Products produced or sold, but excluding income taxes if such charges are actual costs payable out of the proceeds received from a bona fide purchaser or are shown as deductions therefrom.

4. General Provisions

(a) Arm's Length Provision

If smelting and/or refining are carried out in facilities owned or controlled by the Payor, charges, costs and penalties for such operations, including transportation, shall mean the amount that the Payor would have incurred if such operations were carried out at facilities not owned or controlled by the Payor then offering similar custom services for comparable products on prevailing terms.



(b) Payment of the Royalty

All royalty or provisional royalty payments will be payable on or before the 30th day following each Calendar Quarter. Each such quarterly payment to the Royalty Holder shall be accompanied by a statement in reasonable detail showing the calculation of the payment. Each such quarterly payment shall be subject to adjustment as provided below in the next quarterly payment or when the final report for the year is issued as specified below.

(c) Provisional Payments

If any payment becomes due and payable to the Royalty Holder prior to the Payor's final estimates of the total amount payable, then the Payor shall pay the Royalty Holder a provisional royalty payment using the Payor's then current estimates of the amount payable for Products produced during the Calendar Quarter.

(d) Adjustments

The following adjustments shall be taken into account in determining the royalty payments or provisional royalty payments and shall be specified in a statement which will accompany each payment:

- (i) Any adjustments to charges, costs, deductions or expenses imposed upon or given to the Payor but not taken into account in determining previous royalty payments;
- (ii) Any adjustments in the number of appropriate units of measurement of Products, benefited by the Payor, or previously credited to the Payor by a smelter, refiner or bona fide purchaser of Products shipped or sold by the Payor;
- (iii) Any adjustments in Mineral Content and average percentage recovery; and
- (iv) Any payments that have not otherwise been credited against previous royalty payments.

(e) Annual Final Report

Within 90 days after the end of each calendar year, the Payor shall deliver or cause to be delivered to the Royalty Holder a final report for the year certified as being accurate by a responsible officer of the Payor showing in reasonable detail the calculation of the royalty due the Royalty Holder for the prior year and all adjustments to the quarterly or other periodic reports and payments for the year. With such final report, the Payor shall, if applicable, make such additional royalty payment as is required by the report. If such report indicates that the Royalty Holder has received more than it should have been paid in respect of the royalty due to the Royalty Holder, then the excess shall be deducted from the next

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payment obligation owed pursuant to the provisions of this Schedule or, in the event of a temporary or permanent cessation of production, the Royalty Holder shall repay the excess within 15 days of the annual report.

(f) Assignment by Payor

Upon any assignment, conveyance, termination or abandonment of the Property or any portion thereof, as the case may be, by the Payor, the Payor shall have no further obligation to the Royalty Holder in respect of the Property or such portion, as the case may be; provided that, in the case of assignment or conveyance, it shall be a condition of any assignment or conveyance that the assignee or transferee shall have agreed to assume the Payor's obligation to the Royalty Holder to pay the royalty in respect of that portion of the Property acquired by such assignee or transferee.

(g) Assignment by Royalty Holder

Notwithstanding anything to the contrary herein contained, if any part of the right to receive the Royalty is assigned by the Royalty Holder, it shall be a condition of such assignment that the assignee agrees with the Payor and all other parties entitled to receive any part of the Royalty as follows:

- (i) the amount of any royalty payable hereunder shall be settled only with the Royalty Holder or an authorized nominee (herein collectively called the "Nominee") as designated by notice to the Payor (such notice to be executed by all parties entitled to receive any part of the Royalty), and such settlement shall be final and binding upon all interested parties and the Payor shall not be required to make any accounting to any person save such Nominee;
- (ii) payment of the royalty shall be made only to or to the order of the Nominee "In Trust" and such payment shall constitute a full and complete discharge to the Payor and it shall have no obligation to see to the distribution of any such payment;
- (iii) the Payor may settle disputes arising hereunder with the Nominee and such settlement shall be final and binding upon all interested parties;
- (iv) the Payor may rely upon any direction, advice or authorization signed by the Nominee and may act thereon as if the same was signed by all interested parties; and
- (v) the Payor shall not be required to deal with any person except the Nominee. Each interested party shall exercise all of their respective rights only through the Nominee and shall require each of their respective assignees to agree in writing to be bound by the provisions hereof.



(h) Royalty Running With the Property

The royalty created herein shall be a real property interest in all portions of the Property to which the royalty applies sufficient to secure the royalty payments herein provided.

(i) Abandonment

In the event Payer intends to abandon any of the lands comprising a portion or all of the Property ("Abandonment Property"), Payer shall first give notice of such intention to Royalty Holder at least 70 days in advance of the proposed date of abandonment. If not later than 10 days before the proposed date of abandonment Payer receives from Royalty Holder written notice that Royalty Holder desires Payer to convey the Abandonment Property to Royalty Holder, Payer shall, without additional consideration, convey the Abandonment Property in good standing by quit claim deed, without warranty, to Royalty Holder and shall thereafter have no further obligation to maintain the title to the Abandonment Property. If Royalty Holder does not timely give such notice to Payer, Payer may abandon the Abandonment Property and shall thereafter have no further obligation to maintain the title to the Abandonment Property; provided, however, if Payer reacquires any of the ground covered by the Abandonment Property at any time within five (5) years following abandonment, Minerals previously or thereafter produced from such ground shall be subject to this Agreement.

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authority or to complete its obligations under this agreement if an Intervening Event renders completion commercially impracticable. A Party relying on the provisions of section 10.1 will give written notice to the other Party as soon as such Intervening Event ceases to exist.

11. DEFAULT

11.1 Notwithstanding anything in this agreement to the contrary, if any Party (a "Defaulting Party") is in default of any requirement herein set forth the Party or Parties affected by such default will give written notice to the Defaulting Party specifying the default and the Defaulting Party will not lose any rights under this agreement, unless within 30 days after the giving of the first notice of default by an affected Party the Defaulting Party has failed to take reasonable steps to cure the default by the appropriate performance and if the Defaulting Party fails within such period to take reasonable steps to cure any such default, the affected Party will be entitled to seek any remedy it may have on account of such default including terminating this agreement and/or seeking the remedies of specific performance, injunction or damages.

12. GENERAL

12.1 The Parties will execute such further and other documents and do such further and other things as may be necessary or convenient to carry out and give effect to the intent of this agreement.

12.2 Time will be of the essence in the performance of this agreement.

12.3 This agreement may be assigned by either Party and will enure to the benefit of and be binding upon the parties hereto and their respective successors and permitted assigns.

12.4 This agreement (including the Schedules thereto) constitutes the entire agreement between the Parties and, except as hereafter set out, replaces and supersedes all prior agreements, memoranda, correspondence, communications, negotiations and representations, whether oral or written, express or implied, statutory or otherwise between the Parties with respect to the subject matter herein. There are no implied covenants contained in this agreement other than those of good faith and fair dealing.

12.5 This agreement will be governed by and construed according to the laws of British Columbia and the federal laws of Canada applicable therein.

12.6 This agreement may only be amended by the written agreement of all the Parties hereto and their permitted successors and assigns.



12.7 This agreement may be executed in one or more counterparts, each of which shall be deemed to be an original but each of which shall constitute one and the same instrument.

IN WITNESS WHEREOF the parties hereto have executed these presents as of the day and year first above written.

2090720 ONTARIO INC.

By: _____
Name:
Title:

BEDROCK CAPITAL CORPORATION LTD.

By: reflysch
Name: _____
Title: PRESIDENT

SCHEDULE A

Description of Property

Claim List

CL 2008144

CL 2008145

CL 2008153

CL 2008152

CL 2008155

CL 2008162

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SCHEDULE B

Net Smelter Royalty

DEFINITION, CALCULATION AND PAYMENT OF NSR ROYALTY

The Net Smelter Royalty is the percentage provided in this Schedule attached and calculated and paid by Payor (as defined below) to the Royalty Holder (as defined below) in accordance with the following provisions:

I. Definitions

Unless otherwise set forth below, all capitalized terms used in this Schedule shall have the meaning ascribed to them in the Agreement.

"Calendar Quarter" means each three-month period ending March 31st, June 30th, September 30th and December 31st of each calendar year.

"Mineral Content" means all marketable ores, concentrates, metals and minerals contained in Subject Ore as separately estimated by the Payor using head grade or assays taken prior to entering mill or heap leach facilities, mill or heap leach operation recovery levels, and recoveries and other adjustments at the refinery, as key components in the calculation of Mineral Content.

"Mineral Price Quotation" for a Product means the final sale price as quoted for the Product on the London Metals Exchange, as published in *Metals Week* or a similar publication. If publication of the final quotation on the London Metals Exchange shall be discontinued, the parties shall select a comparable commodity quotation for purposes of calculating the Net Smelter Returns. If such selection has not been completed prior to the end of the calendar month following the month in which the quotation is discontinued, the average quotation for the calendar month in which the quotation is discontinued shall be used on an interim basis pending such selection.

"Net Smelter Royalty" for a Calendar Quarter in respect of all of the Product means the sum of (i) for each of the Products, the average Mineral Price Quotation for the Product for a Calendar Quarter multiplied by the total number of appropriate units of measurement of the Product benefited by the Payor or credited by the smelter, refiner or other bona fide purchaser to the Payor during that Calendar Quarter; less (ii) the deductions, adjustments and credits set forth in Section 3, with such sum multiplied by 1%.

"Payor" means the Party who produces and sells Products from the Property from which the Royalty Holder is entitled to a Royalty as provided in the agreement.

"Product" shall mean subject ore at its highest stage of processing.

"Property" shall have the definition provided in the agreement.

"Royalty Holder" means the party or its successors or assigns that becomes entitled to a Royalty, as provided in the Agreement.



SCHEDULE C

Encumbrances

1. The Net Smelter Royalty described in section 6 and Schedule B.

A handwritten mark, possibly a signature or initials, consisting of a large, stylized letter 'R' with a horizontal line extending to the right.

ASSIGNMENT AGREEMENT

THIS ASSIGNMENT AGREEMENT made the 27 day of June, 2007.

BETWEEN:

Southampton Ventures Inc.
a corporation incorporated under the laws of the Province of Ontario

("SVI")

- and -

Bedrock Capital Corporation
a corporation incorporation under the laws of the Province of
British Columbia

("Bedrock")

WHEREAS SVI and Bedrock, together with 2090720 Ontario Inc. (the "**Original Optionor**") executed and delivered an agreement dated as of June 5, 2007, as amended (the "**Agreement**");

AND WHEREAS all capitalized terms when not otherwise defined herein shall have the respective meanings ascribed thereto in the Agreement;

AND WHEREAS the Agreement provides, among other things, that Bedrock shall assign the Nemiscau Option Agreement to SVI;

AND WHEREAS the Original Optionor by its execution and delivery hereof, assents to the provisions hereof, as provided for herein;

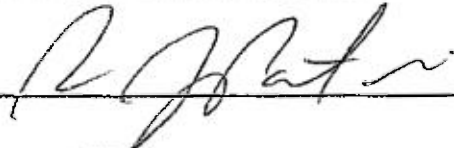
NOW THEREFORE in consideration of the foregoing, the sum of One Dollar (\$1.00) and other good and valuable consideration now given by the parties hereto to each other (the receipt and sufficiency of which are hereby acknowledged), the parties hereto agree with the others as follows:

1. **Assignment.** Bedrock hereby assigns all of its right, title and interest under the Nemiscau Option Agreement to SVI, free and clear of any and all liens, charges, encumbrances, mortgages and claims of others.
2. **Assumption.** SVI hereby agrees to assume all of Bedrock's rights and obligations under the Nemiscau Option Agreement.

3. **Consents.** The Original Optionor accepts and consents to the above assignment of the Nemiscau Option Agreement by Bedrock to SVI.
4. **Nemiscau Option Agreement.** Except as provided herein, all of the terms and conditions of the Nemiscau Option Agreement shall remain in full force and effect, unamended.
5. **Laws.** This Agreement shall be construed in accordance with the laws of the Province of Ontario and the federal laws of Canada applicable therein.
6. **Time of Essence.** Time shall be of the essence of this Agreement.
7. **Counterparts.** This Agreement may be executed in two or more counterparts, all of which taken together shall constitute one instrument.
8. **Enurement.** This Agreement shall enure to and be binding upon the parties hereto and their respective successors and permitted assigns.

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the date and year above written.

SOUTHAMPTON VENTURES INC.

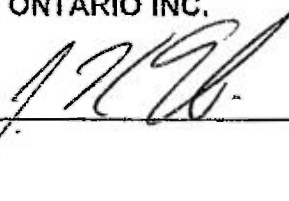
Per:  _____

BEDROCK CAPITAL CORPORATION

Per:  _____

The undersigned by its execution and delivery hereof does hereby consent to the provisions hereof and in particular and without limitation, section 3 hereof as of the 27 day of June, 2007

2090720 ONTARIO INC.

Per:  _____



Appendix 3

Geophysics: Conductive Targets





APPENDIX 3: GEOPHYSICS: CONDUCTIVE TARGETS

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Table 3-1. Target selection from Horden Lake survey

AnomalyID	Easting	Northing	Datum	Projection	SurveyID	BlockID	Priority	Recommendations	Comments
HDN_0001	303469	5646609	NAD83	UTM Zone 18N	HDN	HDN_CENTRAL	High	Collect rock properties	Horden Lake deposit. Coincident magnetic and and isolated, conductive response through all time channels. The conductive response has closest resemblance to a sphere, with a small component dipping to the NW. Located at the contact between metagabbro and metasediments.
HDN_0002	313262	5660053	NAD83	UTM Zone 18N	HDN	HDN_NORTHEAST	High	Ground check/Drill	This target is a conductive through all time channels. It is dipping up to 45° _{SE} although portions appear to have a vertical response. The causative body is relatively shallow. It is coincident with a linear magnetic feature in the northernmost portion of the survey. This magnetic/conductive anomaly can be traced for 5.4 km, with similar strike to the Horden Lake deposit. It lies within an area of mapped mafic metavolcanic, amphibolites, and metagabbro, which also may be considered an upgrading factor. This target has similar response to the Horden Lake deposit. This target lies on, and extends past the north-eastern boundary of the claim block. This target should be followed up by ground checking or drilling.
HDN_0003	310158	5655128	NAD83	UTM Zone 18N	HDN	HDN_NORTHEAST	Low	Consult project geologist	Similar to HDN_0004. These targets are magnetite-rich, strike-limited and lie in the SW portion of a large lake. Both are conductive into late times, but less conductive than HDN_0002. Both are coincident with a strike-limited linear magnetic feature. There is a very subtle 'B-field' response indicating a lower conductivity than the Horden Lake deposit. The profiles indicate a spherical causative body with shallow depth.
HDN_0004	310962	5655753	NAD83	UTM Zone 18N	HDN	HDN_NORTHEAST	Low	Consult project geologist	Similar to HDN_0003. These targets are magnetite-rich, strike-limited and lie in the SW portion of a large lake. Both are conductive into late times, but less conductive than HDN_0002. Both are coincident with a strike-limited linear magnetic feature. There is a very subtle 'B-field' response indicating a lower conductivity than the Horden Lake deposit. The profiles indicate a spherical causative body with shallow depth.
HDN_0005	307620	5653284	NAD83	UTM Zone 18N	HDN	HDN_NORTHEAST	Medium	Ground check	This coincident magnetic and conductive anomaly in the southwest portion of the survey block. The target appears to be dipping slightly to the SE. There is a small but 'B-field' response. This target appears to be on land and lies within the 'upgraded' contact zone between the metagabbro and metasediments. However, the conductive association is confined to the south-westernmost lines of the survey block and is not noted on the north-eastern survey lines. It is recommended to ground check this target.
HDN_0006	312162	5657788	NAD83	UTM Zone 18N	HDN	HDN_NORTHEAST	Low	Consult project geologist	This is a large, spherical, contained, high amplitude magnetic anomaly of approximately 2000nT, lying within the NE trending lake. It appears to be fault bounded on the SW and NE sides, and slightly rotated; possibly an amalgamation of previous linear magnetic units. It has a broad, coincident conductive response in early times but does not have a B-field response and hence does not conform to the high conductivities typically associated with massive sulphides. The conductive response could be due to an accumulation of lake-bottom sediments.
HDN_0007	308687	5655598	NAD83	UTM Zone 18N	HDN	HDN_NORTHEAST	Medium	Consult project geologist	This target represents a few isolated conductive responses in the S-W portion of the lake. The response is broad in early times, likely due to lake bottom sediments, but the appearance of a small, coincident 'B-field' response is encouraging. The profiles indicate a sub-vertical dip to the SE. There is a very subtle magnetic association with this target, however the magnetic mineralization itself is difficult to constrain spatially. The presence of this target within the ultramafic metagabbro unit is upgrading. Further examination of mineralization in historic drill logs within this unit is recommended.
HDN_0008	299270	5644115	NAD83	UTM Zone 18N	HDN	HDN_SOUTHWEST	High	Ground check/Drill	Representative target of area. Linear magnetic features denote boundaries of quartzite unit and all have conductive association. The conductive response is not as sharp as the Horden Lake deposit in early times, but this may be reflecting the local bedrock geology. The profiles generally display a spherical or flat-lying plate response; there is a significant dip NW noted around the contacts of the quartzite unit.

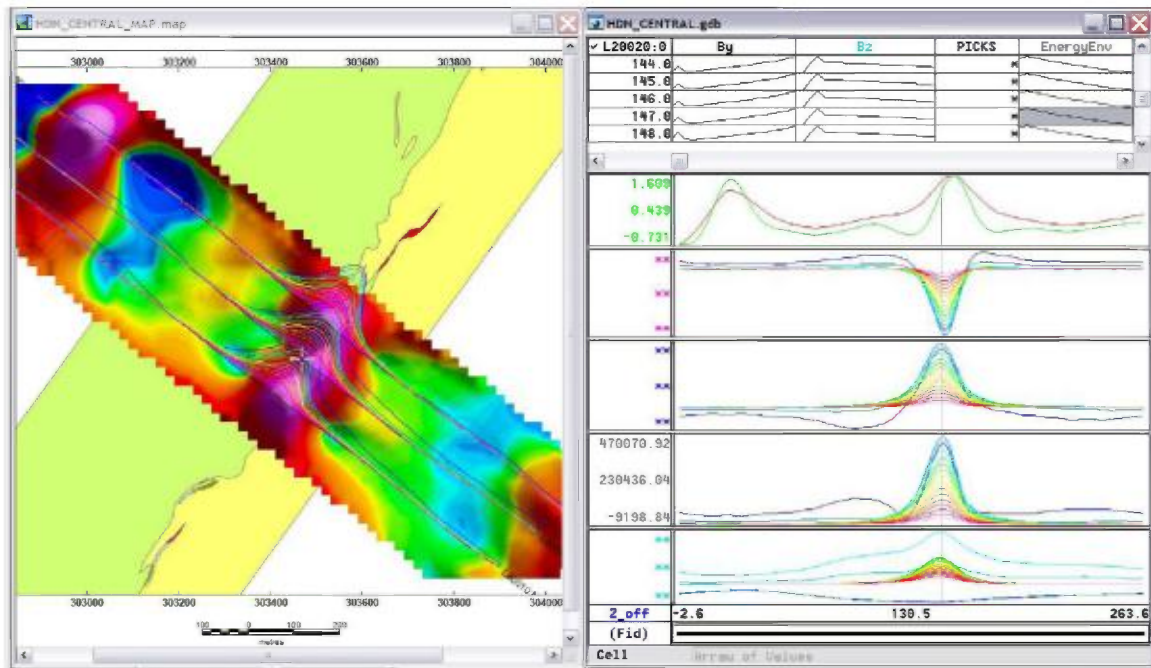


Figure 3-1. Horden Lake Deposit target HDN_0001

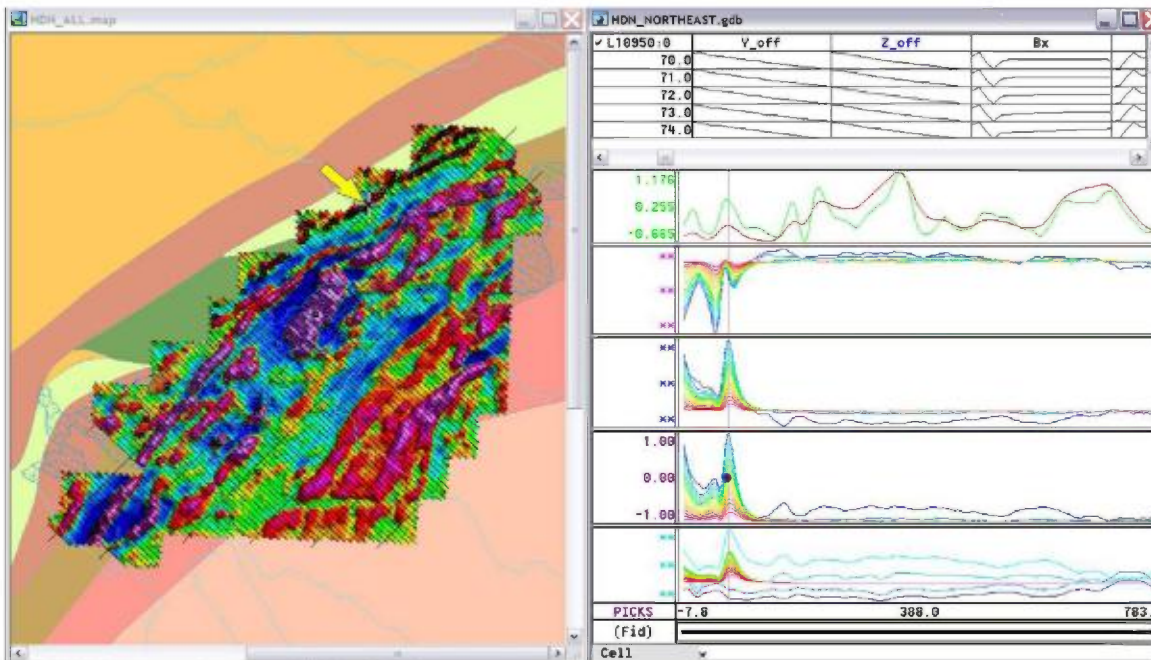


Figure 3-2. Northeast target HDN_0002

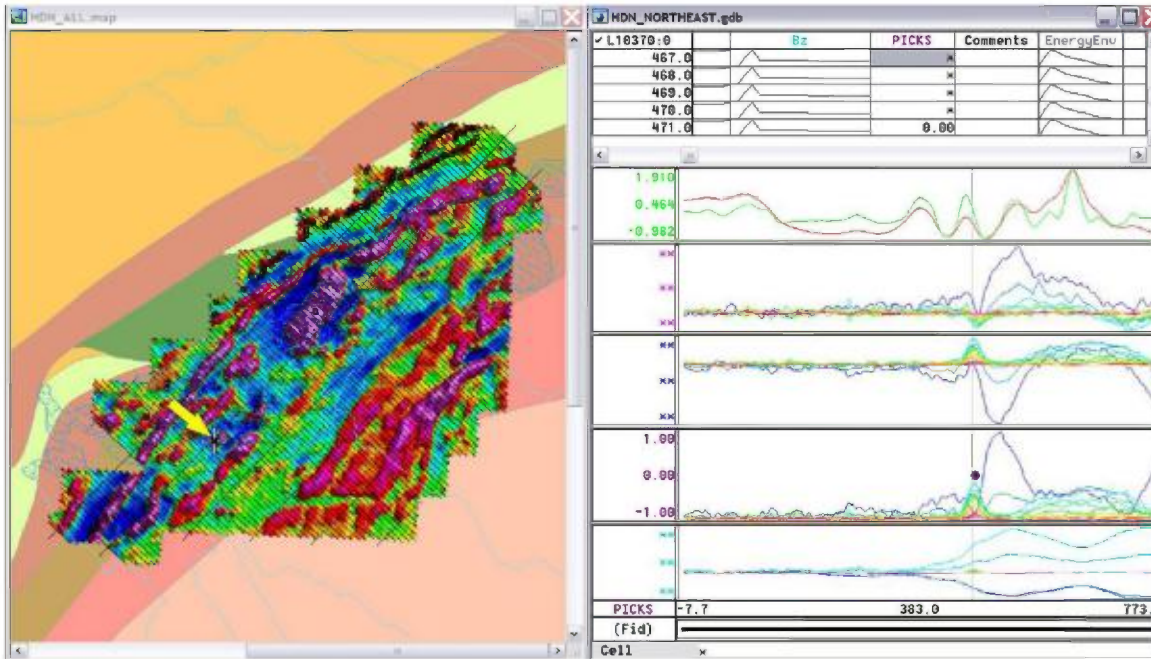


Figure 3-3. Northeast target HDN_0003

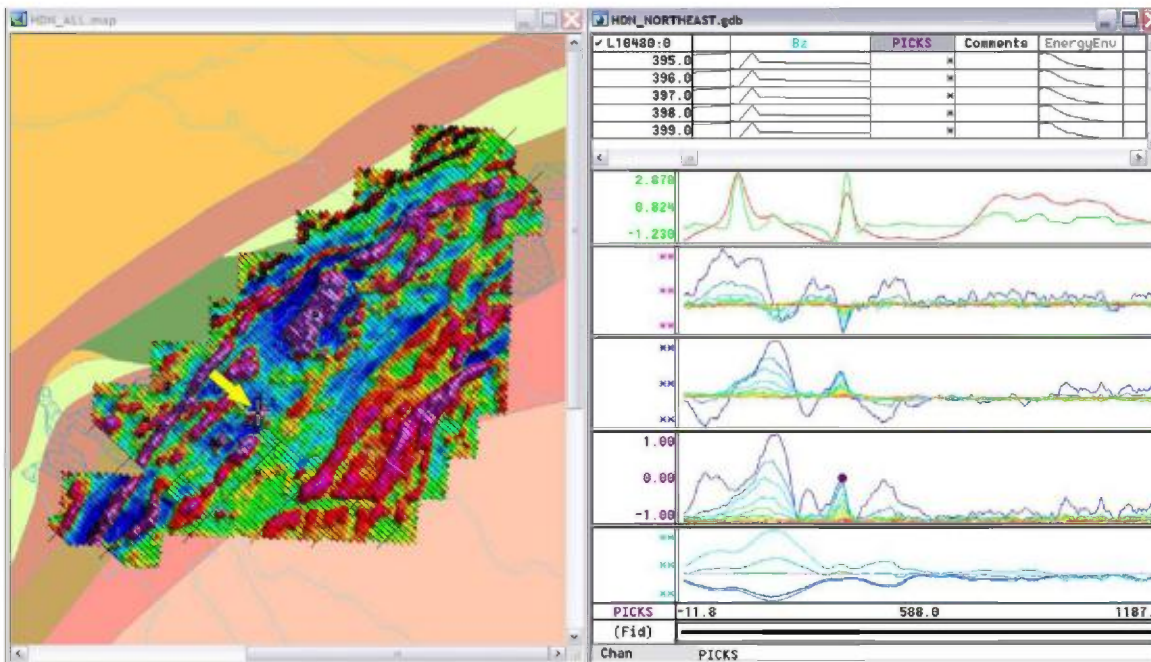


Figure 3-4. Northeast target HDN_0004

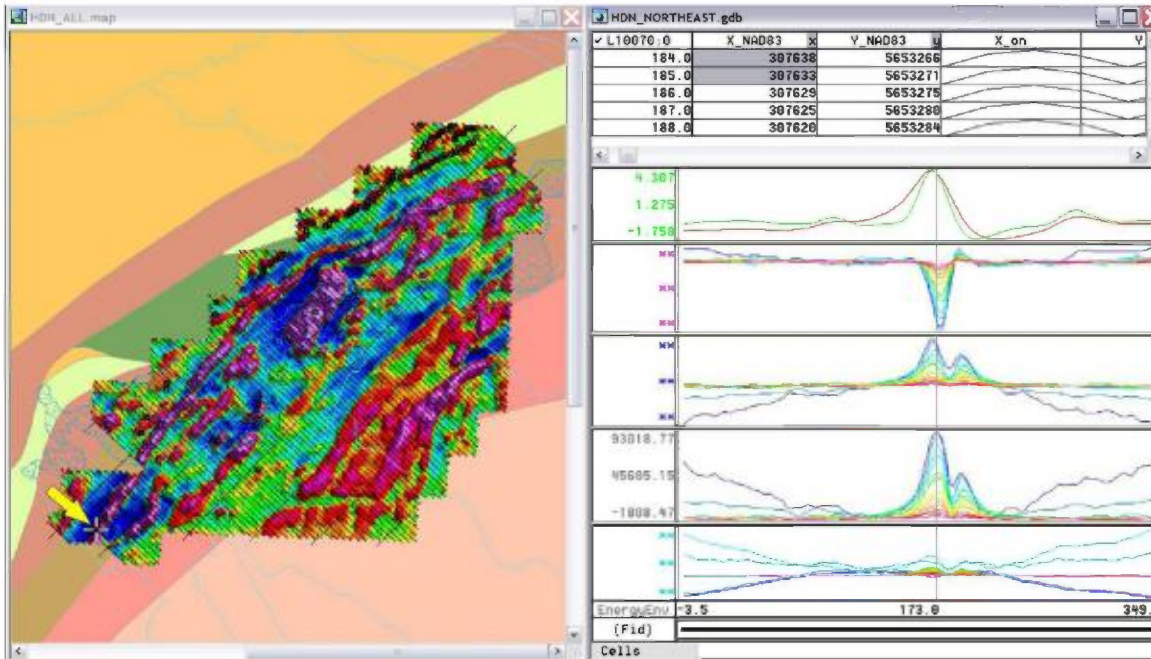


Figure 3-5. Northeast target HDN_0005

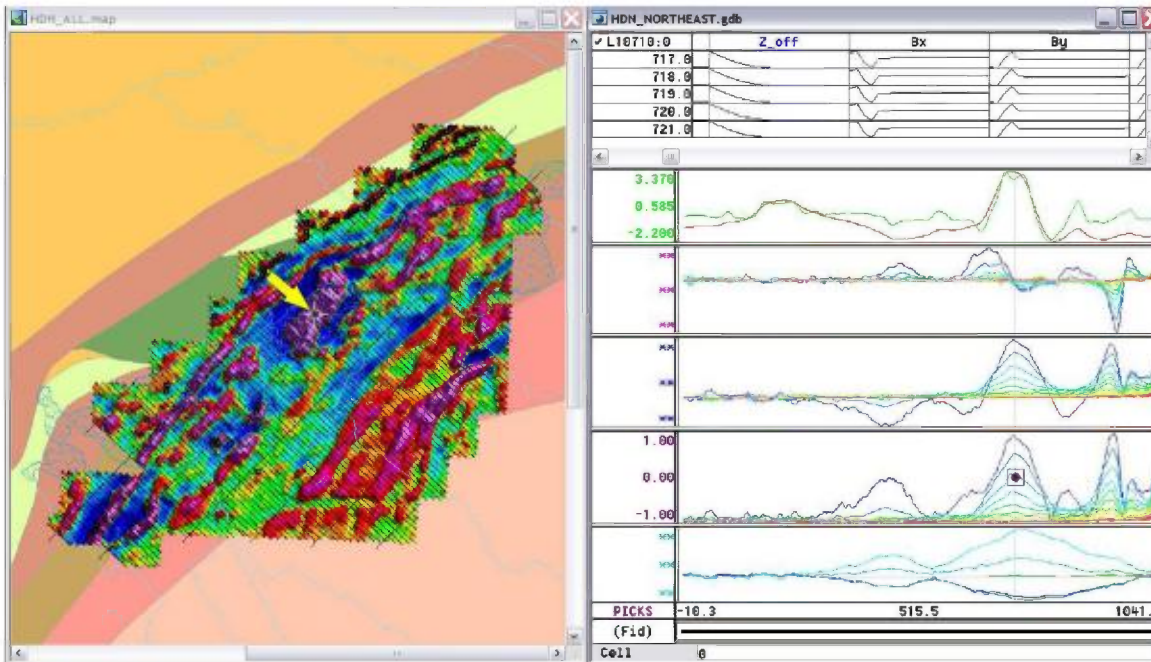


Figure 3-6. Northeast target HDN_0006

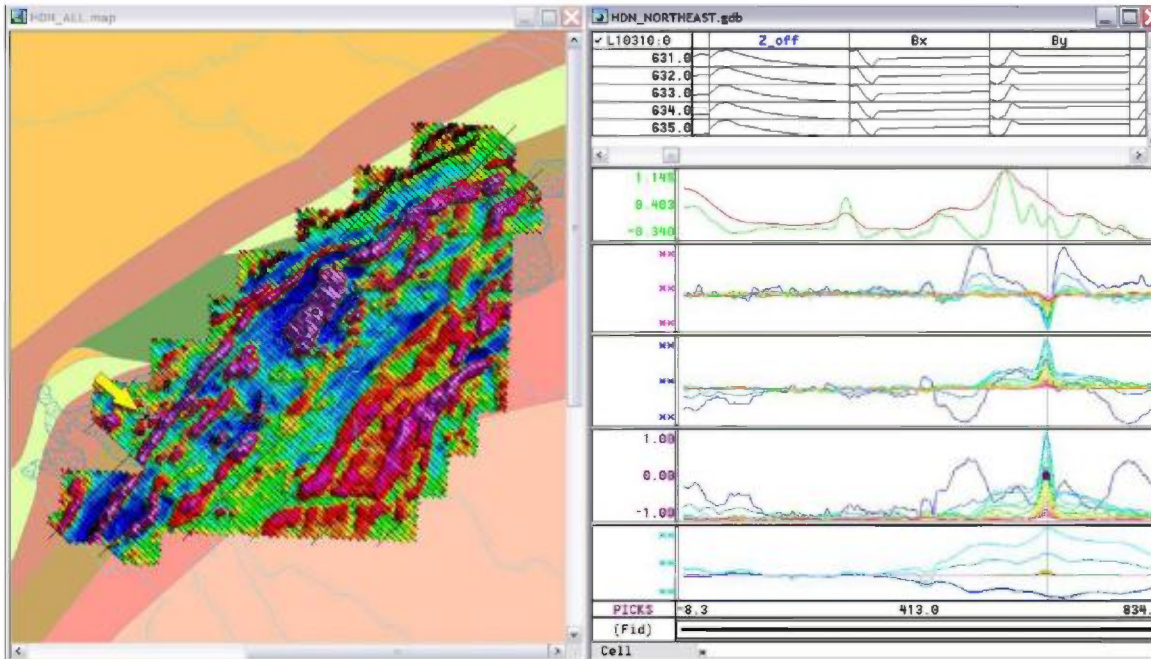


Figure 3-7. Northeast target HDN_0007

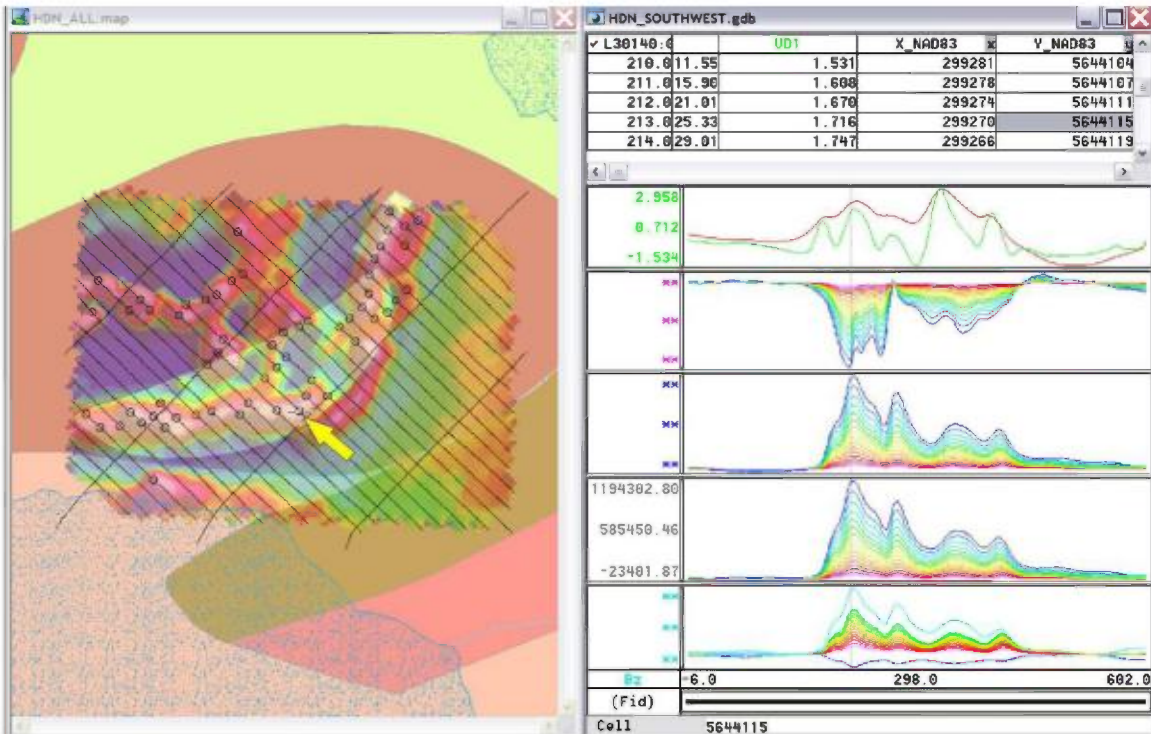


Figure 3-8. Southwest target HDN_0008



Table 3-2. Conductive picks from Horden Lake survey

Line	Easting	Northing	Datum	Zone	BlockID	AnomalyID
L20020	303469	5646609	NAD83	UTM Zone 18N	HDN_CENTRAL	HDN_0001
L20010	303402	5646534	NAD83	UTM Zone 18N	HDN_CENTRAL	
L20020	303434	5646637	NAD83	UTM Zone 18N	HDN_CENTRAL	
L20030	303512	5646697	NAD83	UTM Zone 18N	HDN_CENTRAL	
L10950	313262	5660053	NAD83	UTM Zone 18N	HDN_NORTHEAST	HDN_0002
L10380	310158	5655128	NAD83	UTM Zone 18N	HDN_NORTHEAST	HDN_0003
L10480	310962	5655753	NAD83	UTM Zone 18N	HDN_NORTHEAST	HDN_0004
L10070	307620	5653284	NAD83	UTM Zone 18N	HDN_NORTHEAST	HDN_0005
L10710	312162	5657788	NAD83	UTM Zone 18N	HDN_NORTHEAST	HDN_0006
L10310	308687	5655598	NAD83	UTM Zone 18N	HDN_NORTHEAST	HDN_0007
L10060	307526	5653221	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10080	307646	5653397	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10100	307833	5653503	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10280	308565	5655276	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10380	309088	5656168	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10390	309100	5656295	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10370	310047	5655120	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10560	310081	5657713	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10580	310109	5657977	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10640	310680	5658241	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10670	310842	5658512	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10390	310972	5654499	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10490	310996	5655861	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10680	311012	5658494	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10690	311068	5658580	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10700	311100	5658666	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10720	311248	5658809	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10730	311345	5658855	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10740	311452	5658900	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10750	311518	5658971	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10800	311892	5659299	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10810	311975	5659369	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10830	311981	5659642	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10820	311982	5659481	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10840	312118	5659624	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10850	312374	5659547	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10860	312435	5659594	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10870	312483	5659700	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10880	312600	5659715	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10900	312825	5659786	NAD83	UTM Zone 18N	HDN_NORTHEAST	



Line	Easting	Northing	Datum	Zone	BlockID	AnomalyID
L10910	312905	5659857	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10920	312994	5659913	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10930	313094	5659953	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10990	313210	5660673	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10940	313235	5659955	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10960	313355	5660125	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10970	313405	5660203	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10980	313500	5660244	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L10990	313559	5660337	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11010	313711	5660463	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11020	313761	5660555	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11030	313770	5660682	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11030	313910	5660551	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11050	314122	5660617	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11060	314203	5660695	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11090	314294	5661006	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11070	314309	5660724	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11100	314343	5661120	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11140	314347	5661645	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11110	314399	5661190	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11080	314408	5660774	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11120	314437	5661294	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11090	314490	5660820	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11130	314548	5661324	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11100	314587	5660872	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11140	314628	5661385	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11110	314677	5660922	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11150	314716	5661437	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11120	314767	5660972	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11160	314784	5661515	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11130	314850	5661030	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11170	314888	5661553	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11180	314970	5661629	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11140	314977	5661050	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11170	315054	5661379	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11150	315074	5661095	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11180	315120	5661481	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11160	315130	5661181	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11190	315232	5661482	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11170	315269	5661178	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11200	315300	5661581	NAD83	UTM Zone 18N	HDN_NORTHEAST	



Line	Easting	Northing	Datum	Zone	BlockID	AnomalyID
L11180	315338	5661269	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11210	315427	5661581	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11190	315437	5661298	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L11200	315492	5661382	NAD83	UTM Zone 18N	HDN_NORTHEAST	
L30140	299270	5644115	NAD83	UTM Zone 18N	HDN_SOUTHWEST	HDN_0008
L30040	297830	5644092	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30090	297870	5644783	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30110	297911	5644998	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30040	297925	5644002	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30050	298059	5644013	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30110	298124	5644798	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30060	298128	5644107	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30120	298195	5644866	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30060	298207	5644036	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30120	298259	5644799	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30070	298285	5644078	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30040	298286	5643647	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30080	298331	5644167	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30070	298365	5644000	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30080	298440	5644067	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30130	298457	5644762	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30140	298507	5644835	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30090	298573	5644088	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30150	298640	5644867	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30120	298650	5644430	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30100	298679	5644111	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30160	298713	5644902	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30130	298719	5644510	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30140	298756	5644599	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30170	298812	5644995	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30200	298853	5645328	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30110	298870	5644089	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30180	298891	5645042	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30120	298926	5644167	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30140	299038	5644336	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30160	299087	5644560	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30150	299119	5644409	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30130	299120	5644117	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30170	299163	5644645	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30160	299183	5644479	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30180	299269	5644682	NAD83	UTM Zone 18N	HDN_SOUTHWEST	



Line	Easting	Northing	Datum	Zone	BlockID	AnomalyID
L30150	299315	5644217	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30190	299330	5644723	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30160	299352	5644324	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30140	299355	5644028	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30180	299461	5644217	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30200	299543	5644681	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30210	299609	5644740	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30200	299648	5644585	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30220	299695	5644817	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30230	299743	5644907	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30240	299746	5645037	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30220	299778	5644738	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30250	299781	5645144	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30260	299823	5645229	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30230	299867	5644780	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30270	299870	5645339	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30280	299880	5645463	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30240	299926	5644861	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30270	299983	5645236	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30280	299984	5645366	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30250	299995	5644935	NAD83	UTM Zone 18N	HDN_SOUTHWEST	
L30290	300075	5645404	NAD83	UTM Zone 18N	HDN_SOUTHWEST	



Appendix 4

Geophysics: Magnetic Maps



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Table 4-1 - Magnetic products for Horden Lake Northeast

Figure	Filter Type	Name	Explanation
4-1	Total Magnetic Intensity	TMI	Magnetic intensity as a summation of all causative magnetic fields at a given point
4-2	Reduction to Pole	RTP	Transforms magnetic data to mimic that which would be recorded at the magnetic pole. Helps simplify interpretation
4-3	First Vertical Derivative	VD1	Removes regional gradients - provides better resolution of features
4-4	Second Vertical Derivative	VD2	Tighter definition of causative magnetic bodies. Amplifies high frequency data - can help in distinguishing rock types
4-5	Analytic Signal	AS	Combines first derivatives in x, y, z directions. Creates peaks over edges of wide magnetic bodies and centres of small bodies
4-6	Total Horizontal Derivative	THDR	Total gradient in the x, y directions
4-7	First Vertical Derivative of THDR	THDR_VD1	Highlight anomalies by removing regional effect within THDR
4-8	Tilt Derivative	TDR	Angle between total horizontal derivative (x and y direction) and the first vertical derivative. Highlights structure.
4-9	Horizontal Gradient of Tilt Derivative	HD_TDR	Insensitive to inclination of magnetic field. HD_TDR offers better edge detection than AS. Strongly amplifies noise
4-10	Edge Filter	EDGE	Product using tilt derivatives to highlight edges
4-11	Area Filter	AREA	Product using tilt derivatives to highlight areas

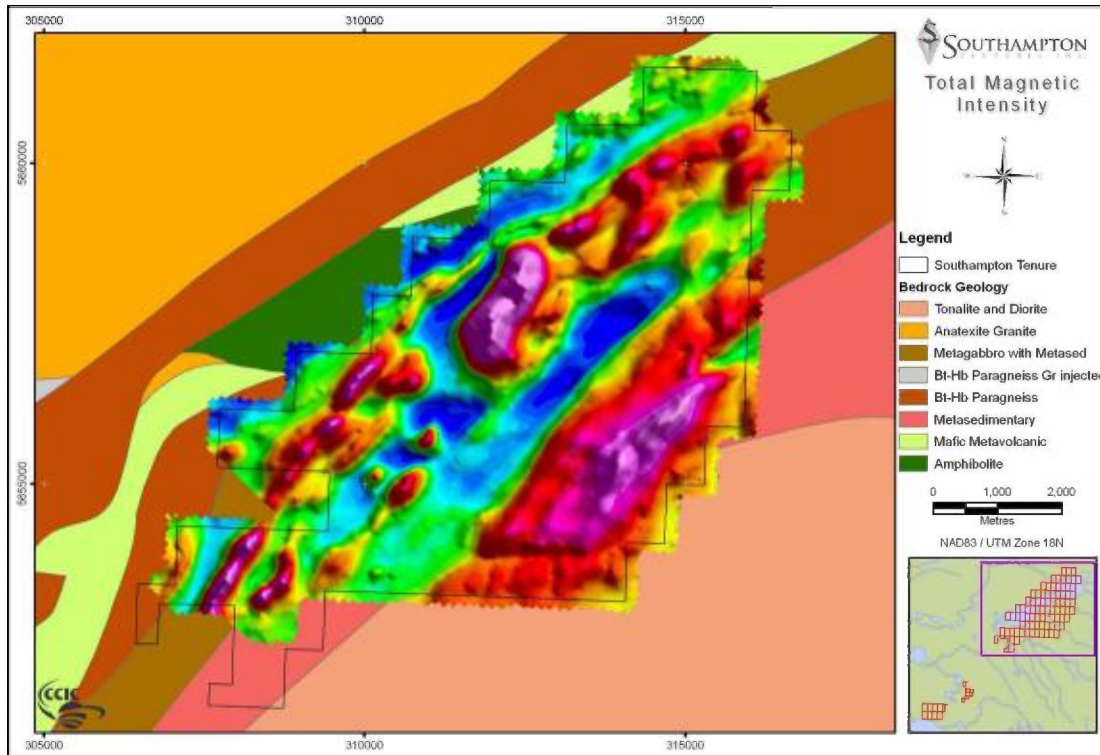


Figure 4-1. Horden Lake Northeast - Total Magnetic Intensity

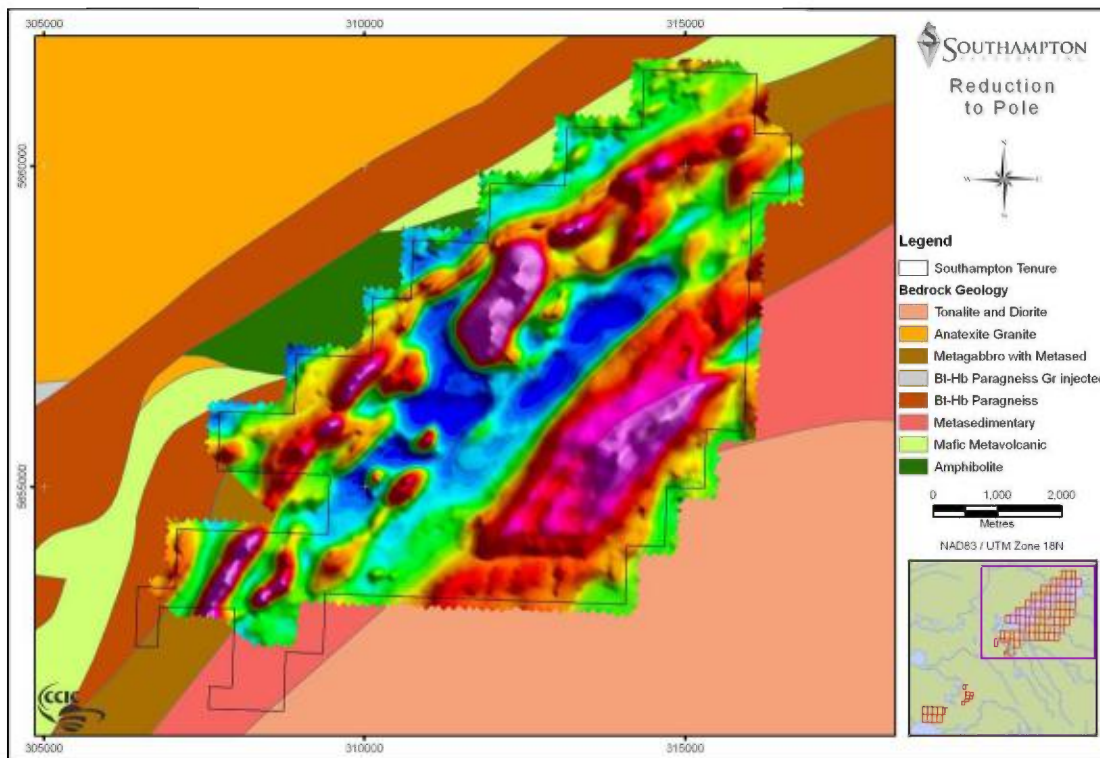


Figure 4-2. Horden Lake Northeast - Reduction to Pole

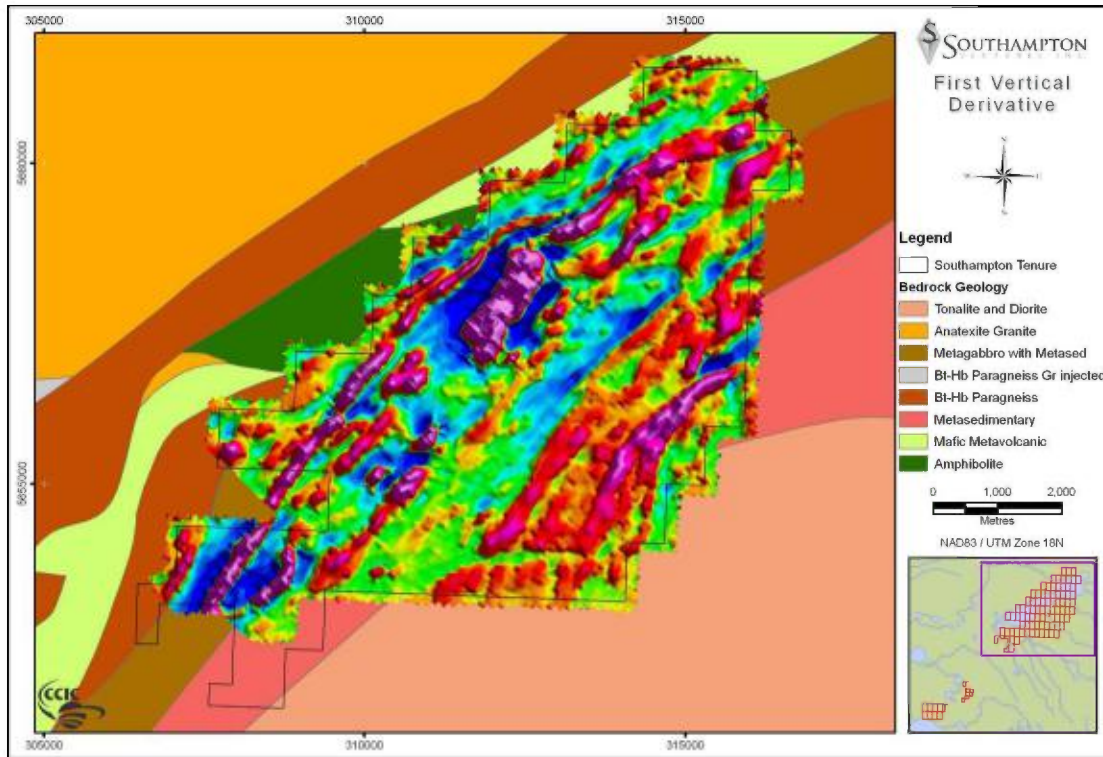


Figure 4-3. Horden Lake Northeast - First Vertical Derivative

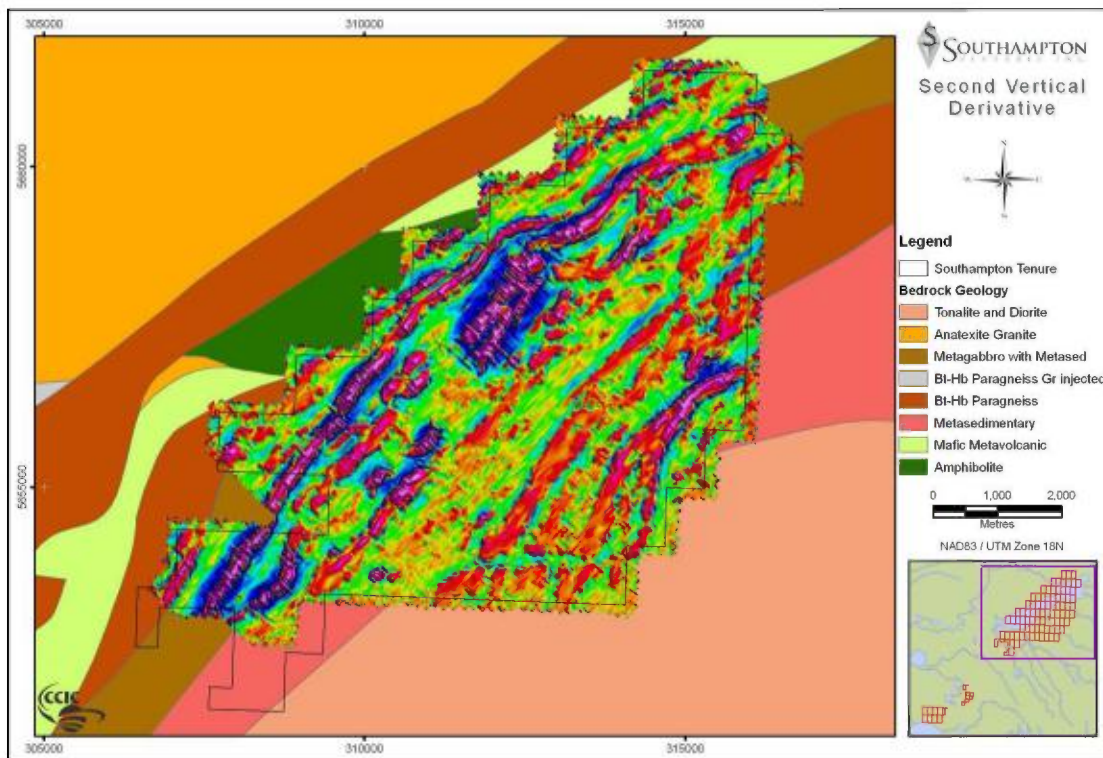


Figure 4-4. Horden Lake Northeast - Second Vertical Derivative

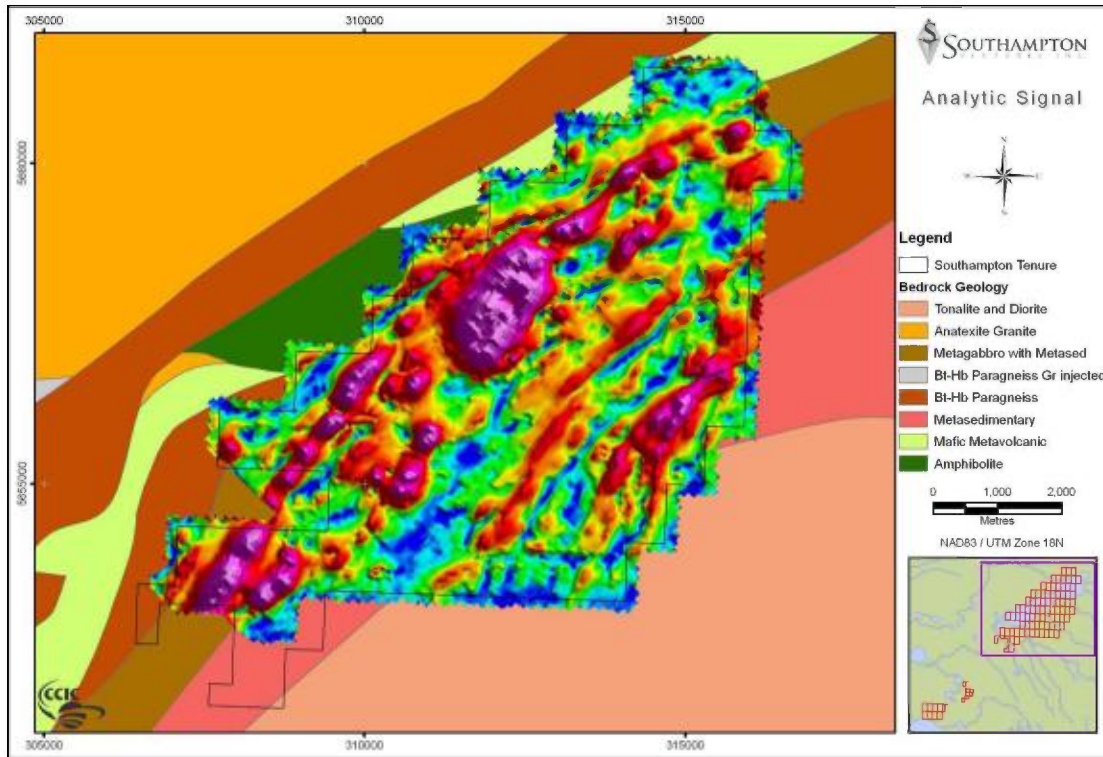


Figure 4-5. Horden Lake Northeast - Analytic Signal

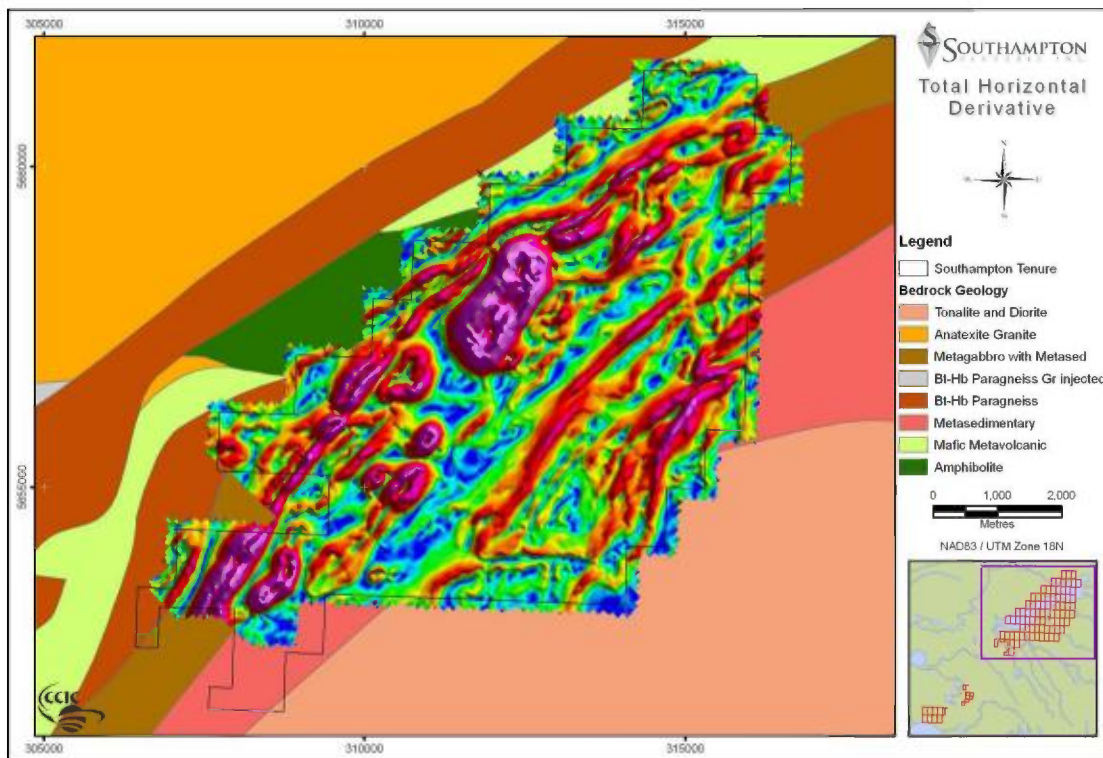


Figure 4-6. Horden Lake Northeast - Total Horizontal Derivative

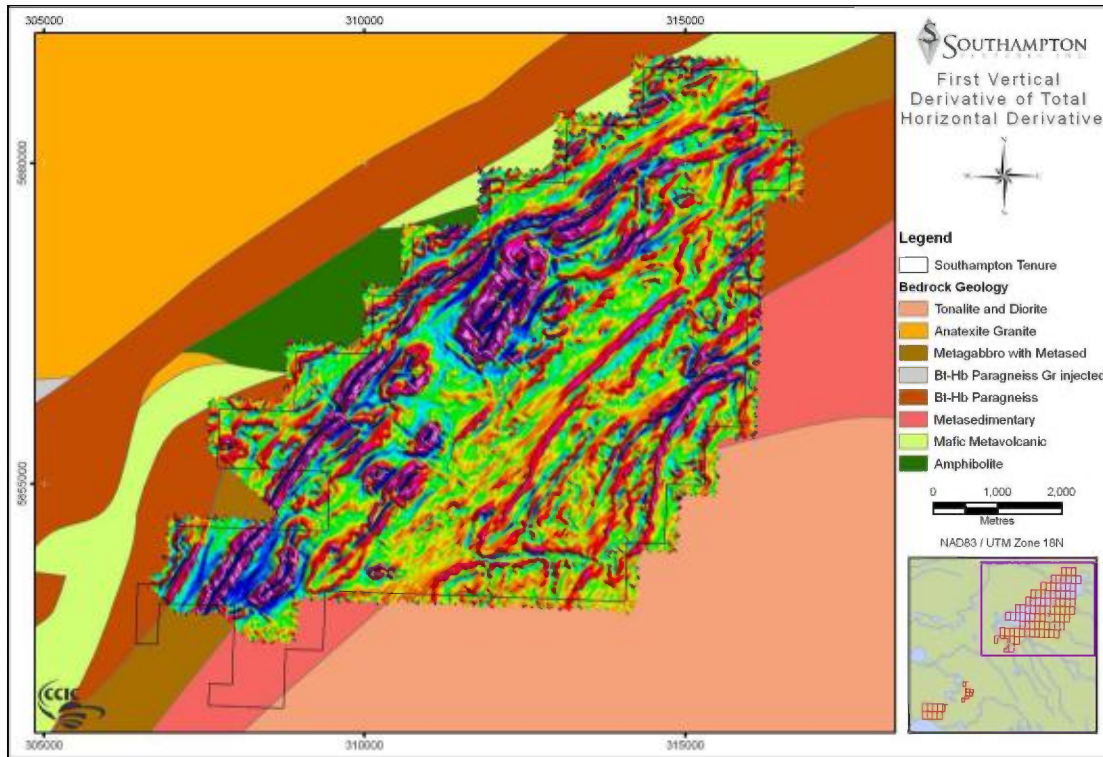


Figure 4-7. Horden Lake Northeast - First Vertical Derivative of Total Horizontal Derivative

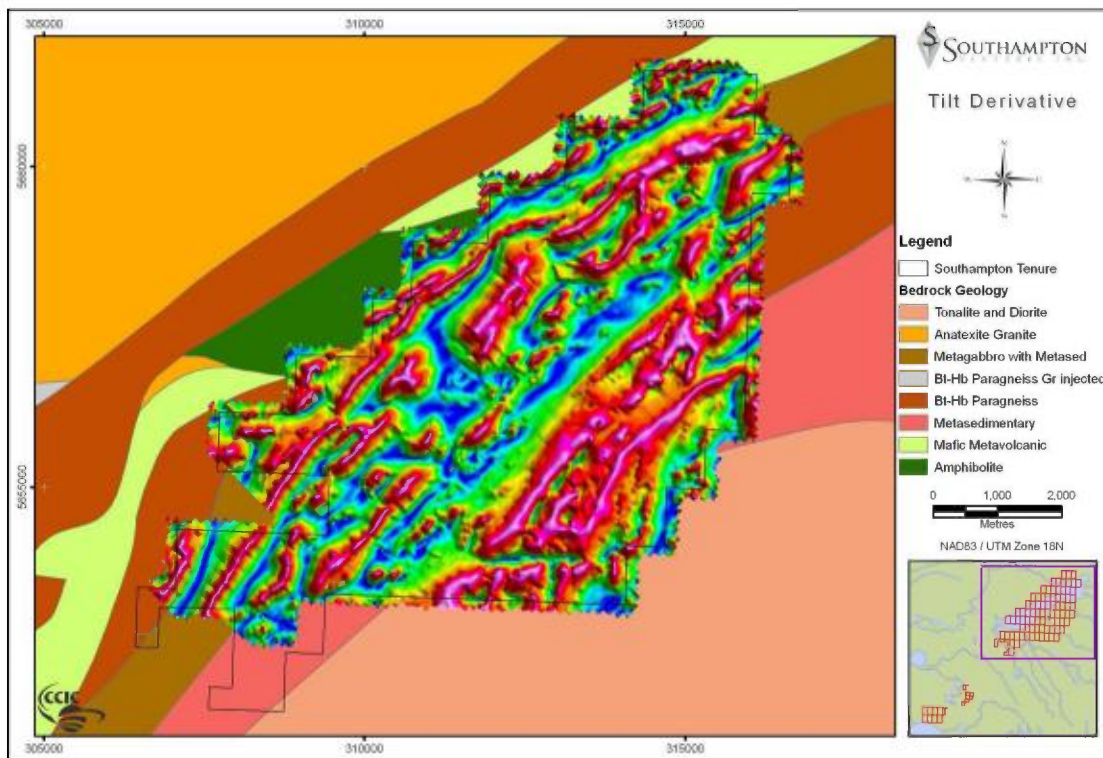


Figure 4-8. Horden Lake Northeast - Tilt Derivative

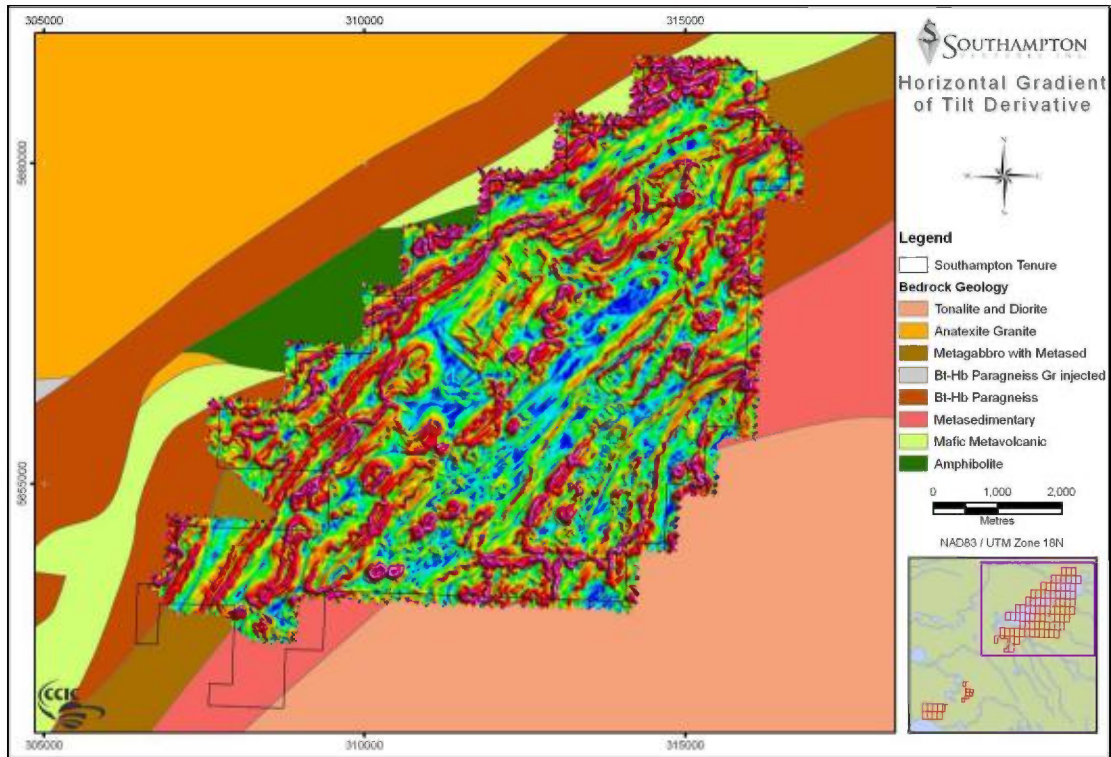


Figure 4-8. Horden Lake Northeast - Horizontal Gradient of Tilt Derivative

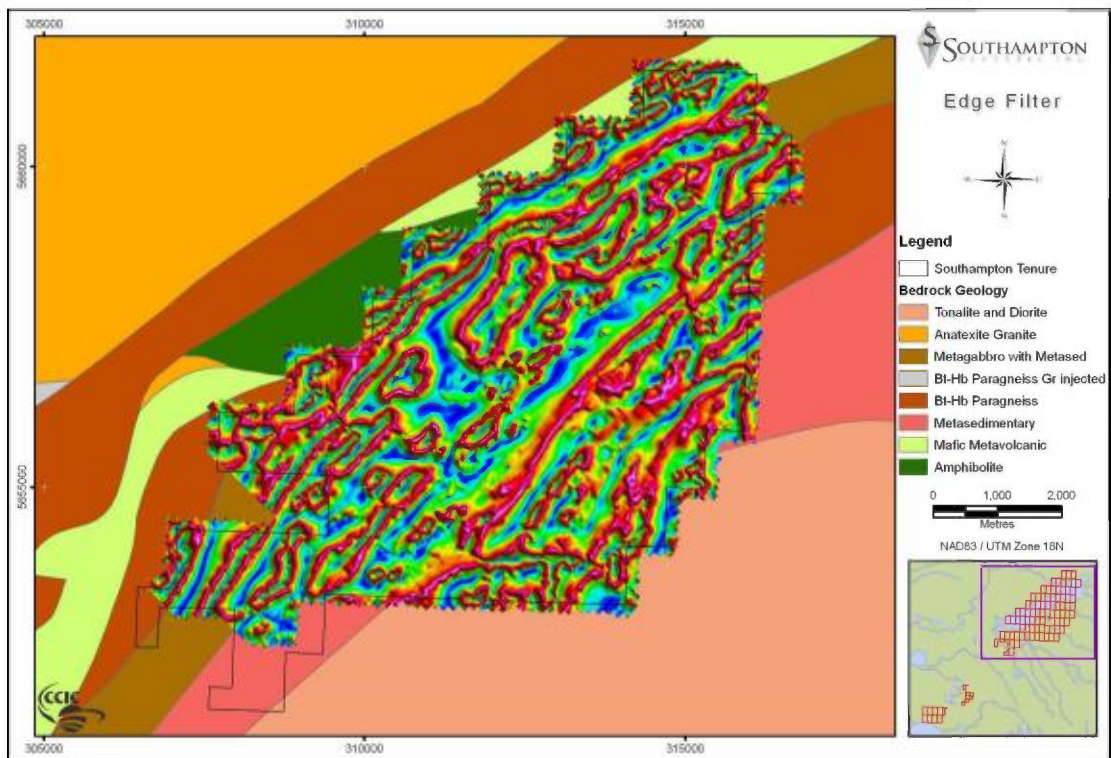


Figure 4-9. Horden Lake Northeast - Edge Filter

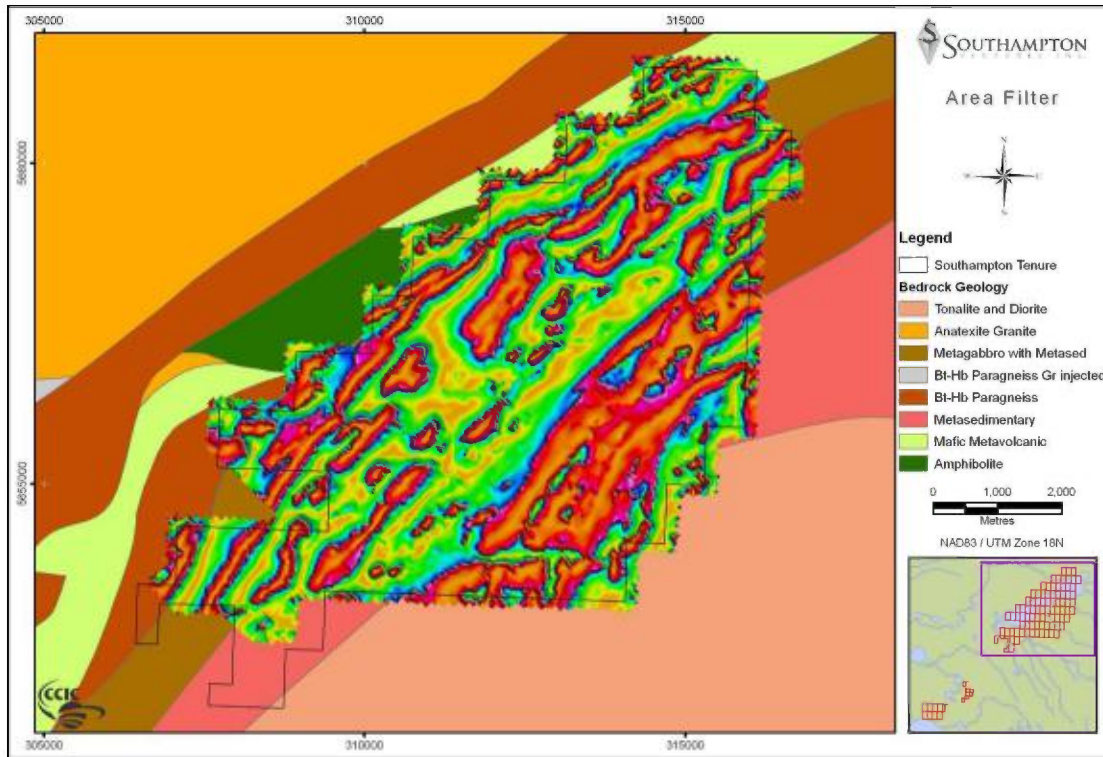


Figure 4-10. Horden Lake Northeast - Area Filter



Table 4-2 - Magnetic products for Horden Lake Southwest

Figure	Filter Type	Name	Explanation
4-12	Total Magnetic Intensity	TMI	Magnetic intensity as a summation of all causative magnetic fields at a given point
4-13	Reduction to Pole	RTP	Transforms magnetic data to mimic that which would be recorded at the magnetic pole. Helps simplify interpretation
4-14	First Vertical Derivative	VD1	Removes regional gradients - provides better resolution of features
4-15	Second Vertical Derivative	VD2	Tighter definition of causative magnetic bodies. Amplifies high frequency data - can help in distinguishing rock types
4-16	Analytic Signal	AS	Combines first derivatives in x, y, z directions. Creates peaks over edges of wide magnetic bodies and centres of small bodies
4-17	Total Horizontal Derivative	THDR	Total gradient in the x, y directions
4-18	First Vertical Derivative of THDR	THDR_VD1	Highlight anomalies by removing regional effect within THDR
4-19	Tilt Derivative	TDR	Angle between total horizontal derivative (x and y direction) and the first vertical derivative. Highlights structure.
4-20	Horizontal Gradient of Tilt Derivative	HD_TDR	Insensitive to inclination of magnetic field. HD_TDR offers better edge detection than AS. Strongly amplifies noise
4-21	Edge Filter	EDGE	Product using tilt derivatives to highlight edges
4-22	Area Filter	AREA	Product using tilt derivatives to highlight areas

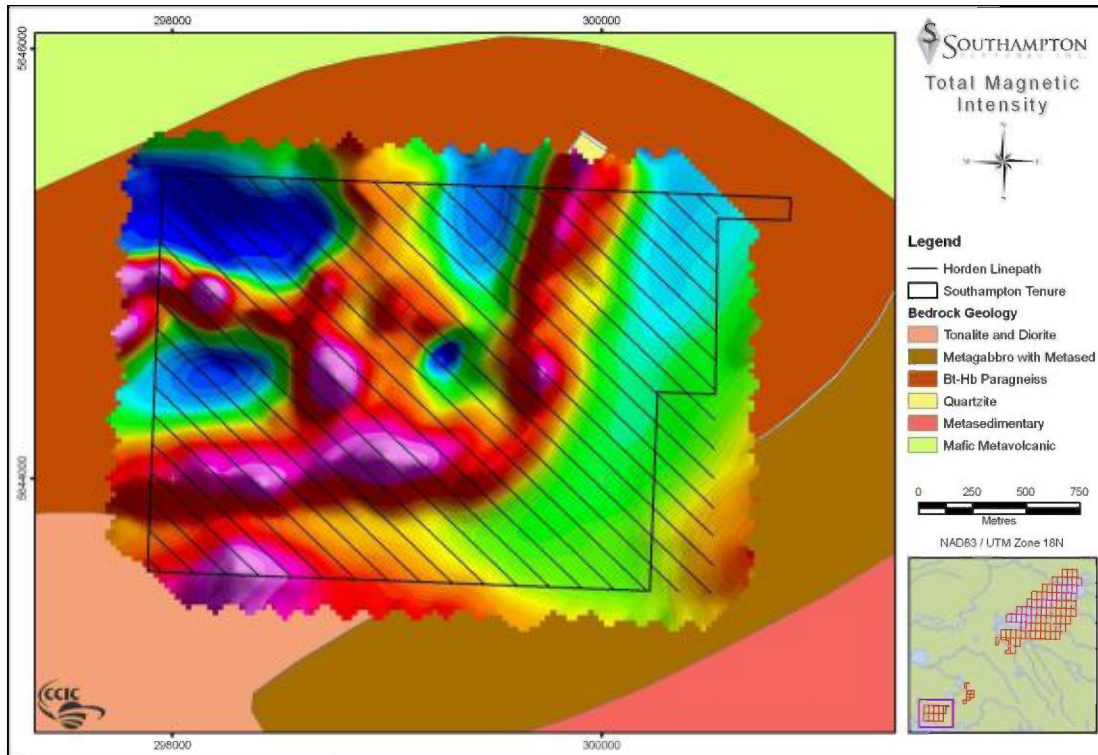


Figure 4-11. Horden Lake Southwest - Total Magnetic Intensity

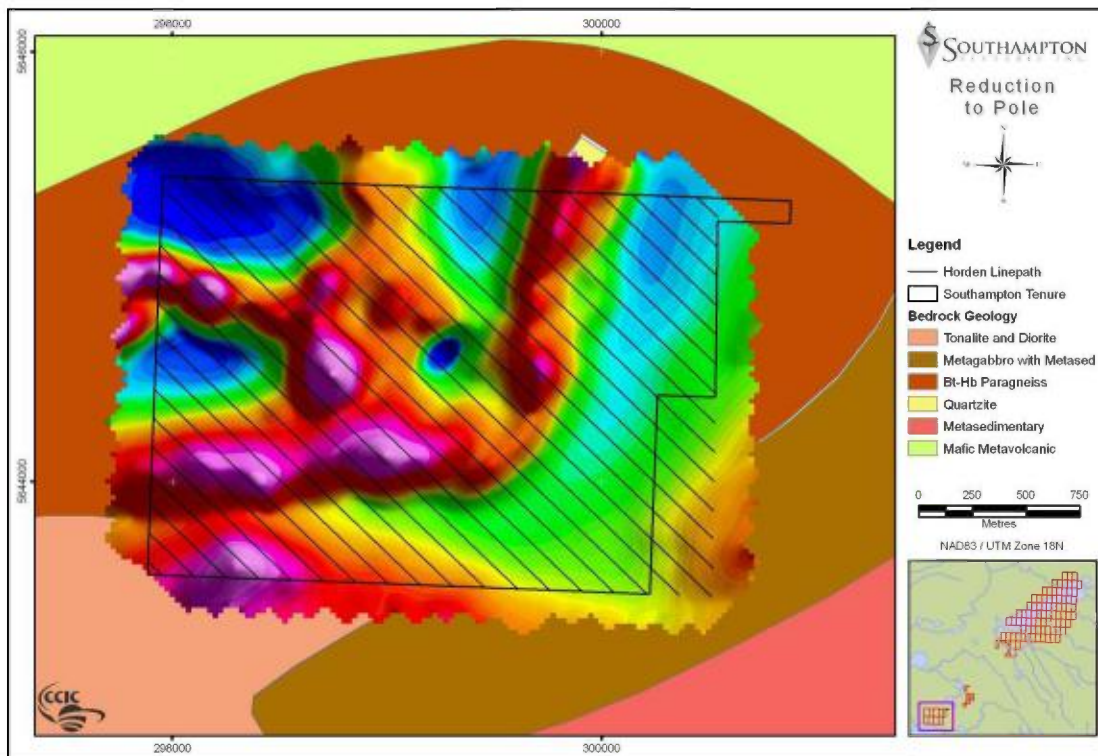


Figure 4-12. Horden Lake Southwest - Reduction to Pole

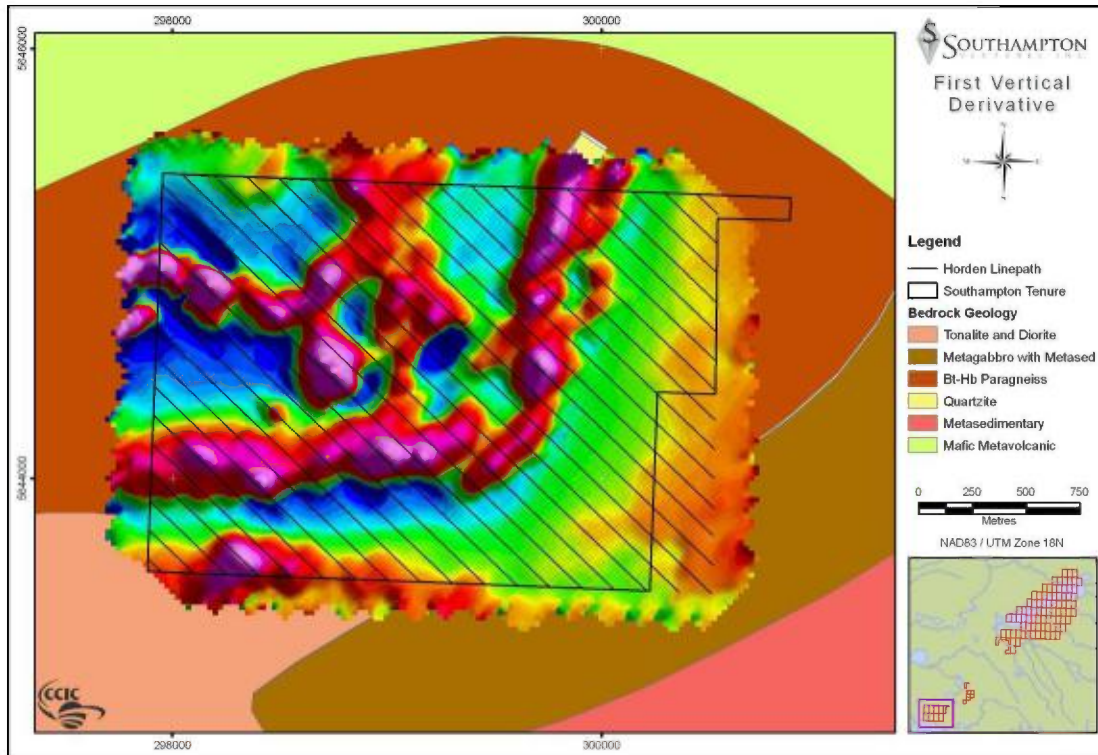


Figure 4-13. Horden Lake Southwest - First Vertical Derivative

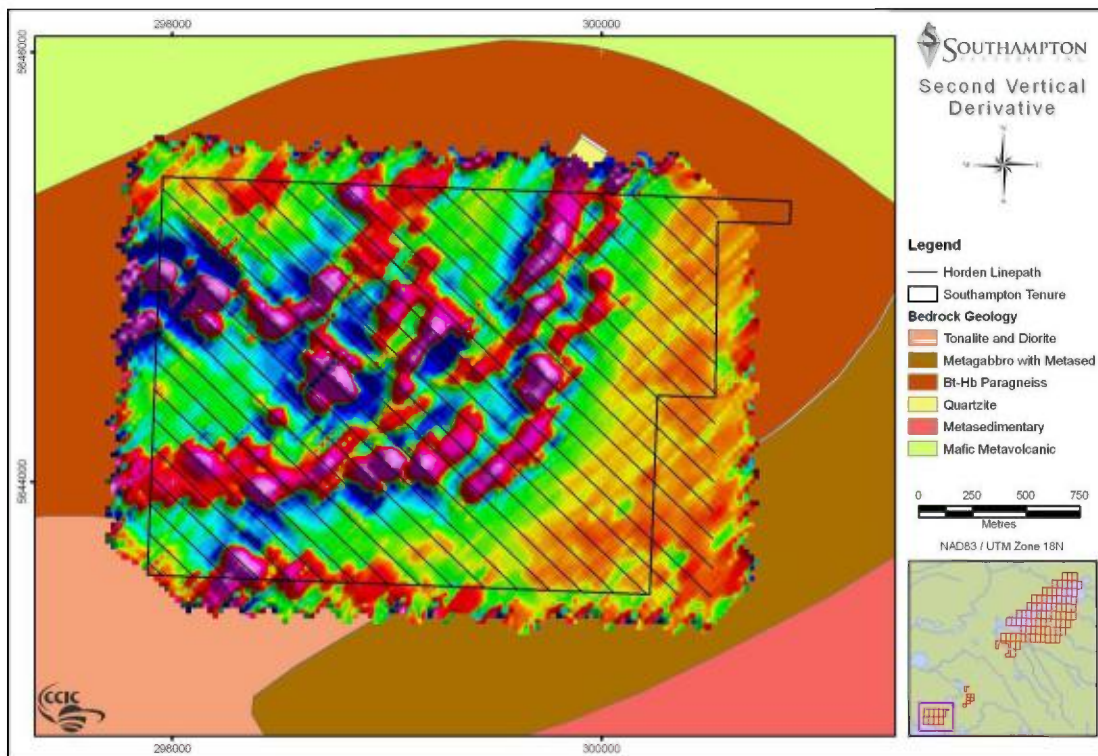


Figure 4-14. Horden Lake Southwest - Second Vertical Derivative

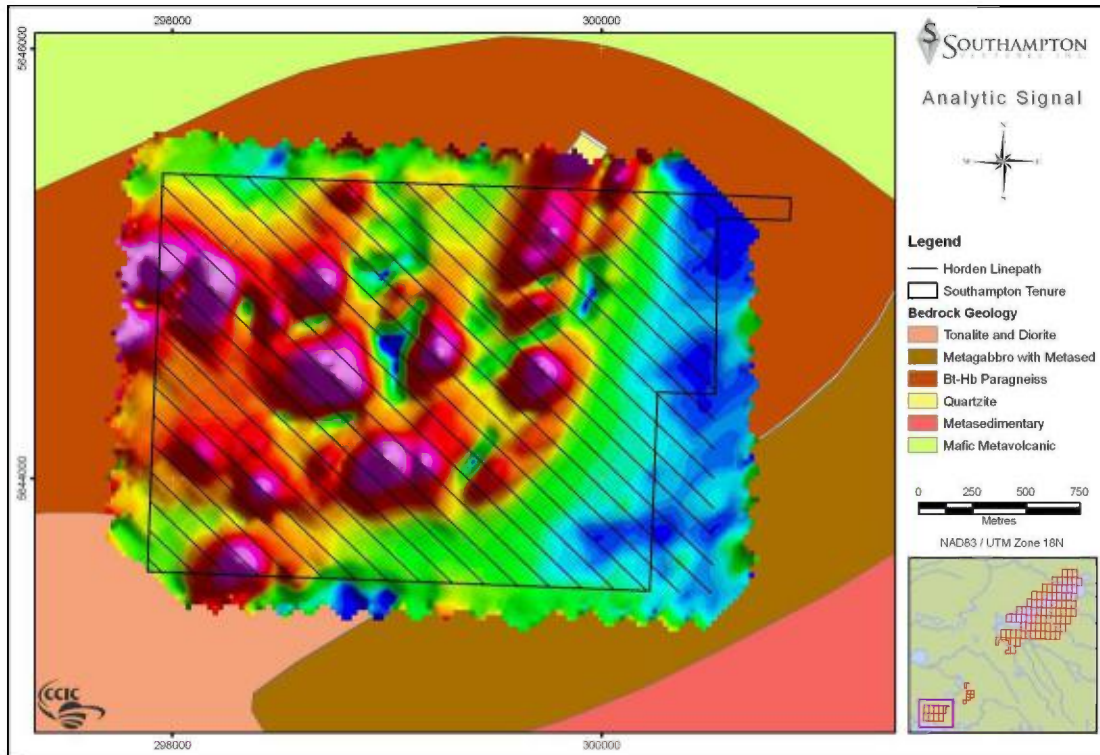


Figure 4-15. Horden Lake Southwest - Analytic Signal

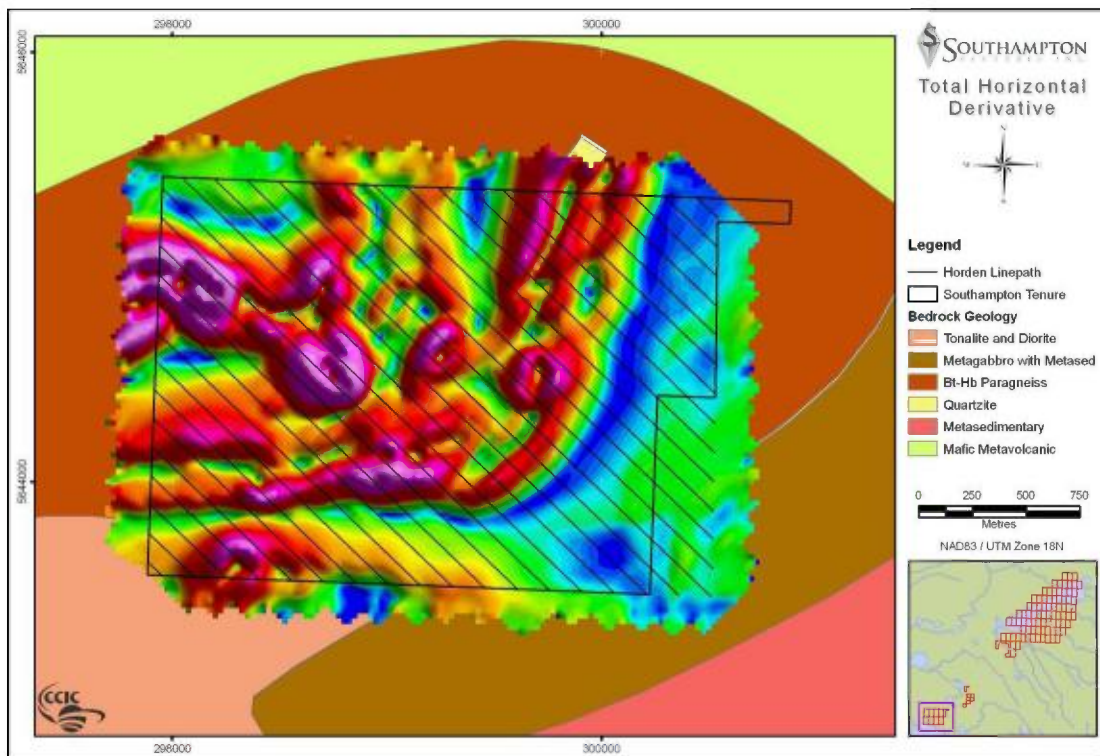


Figure 4-16. Horden Lake Southwest - Total Horizontal Derivative

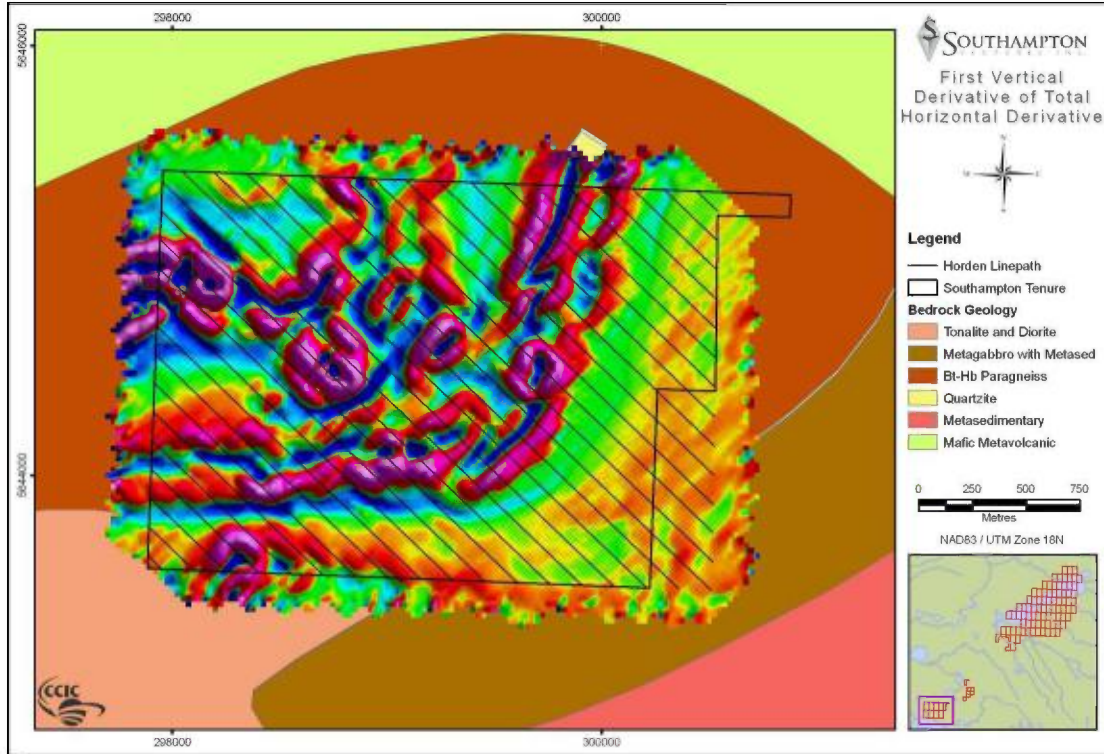


Figure 4-17. Hornden Lake Southwest - First Vertical Derivative of Total Horizontal Derivative

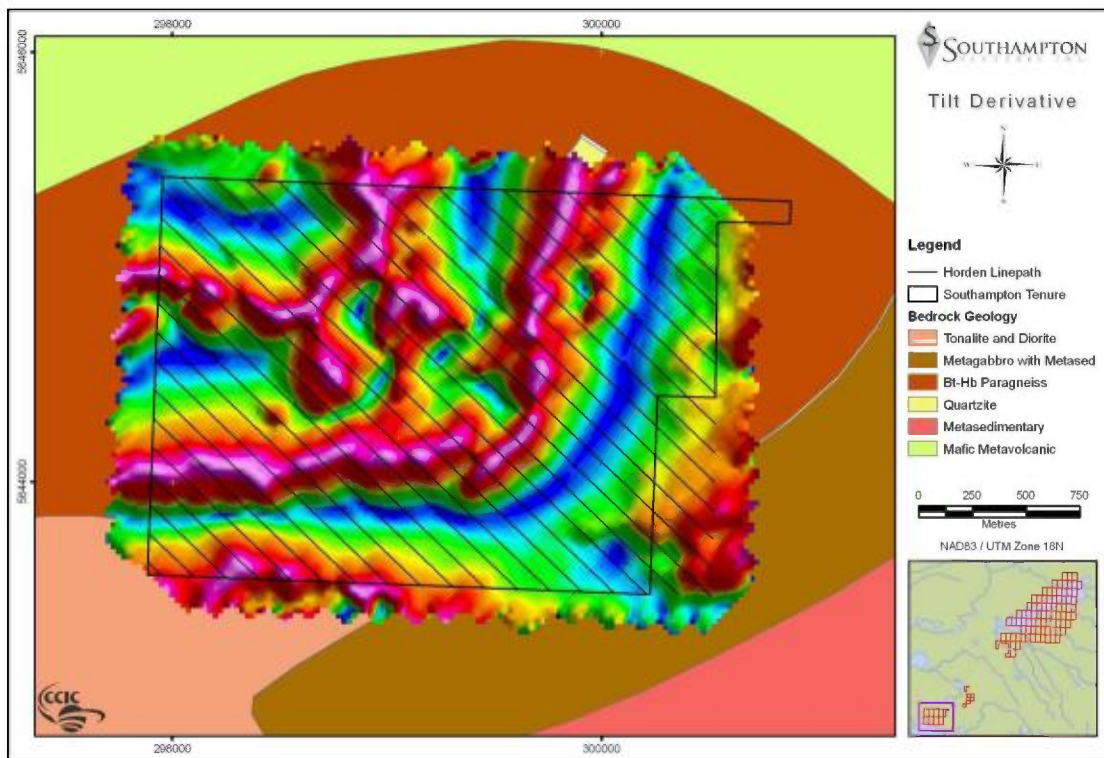


Figure 4-18. Hornden Lake Southwest - Tilt Derivative

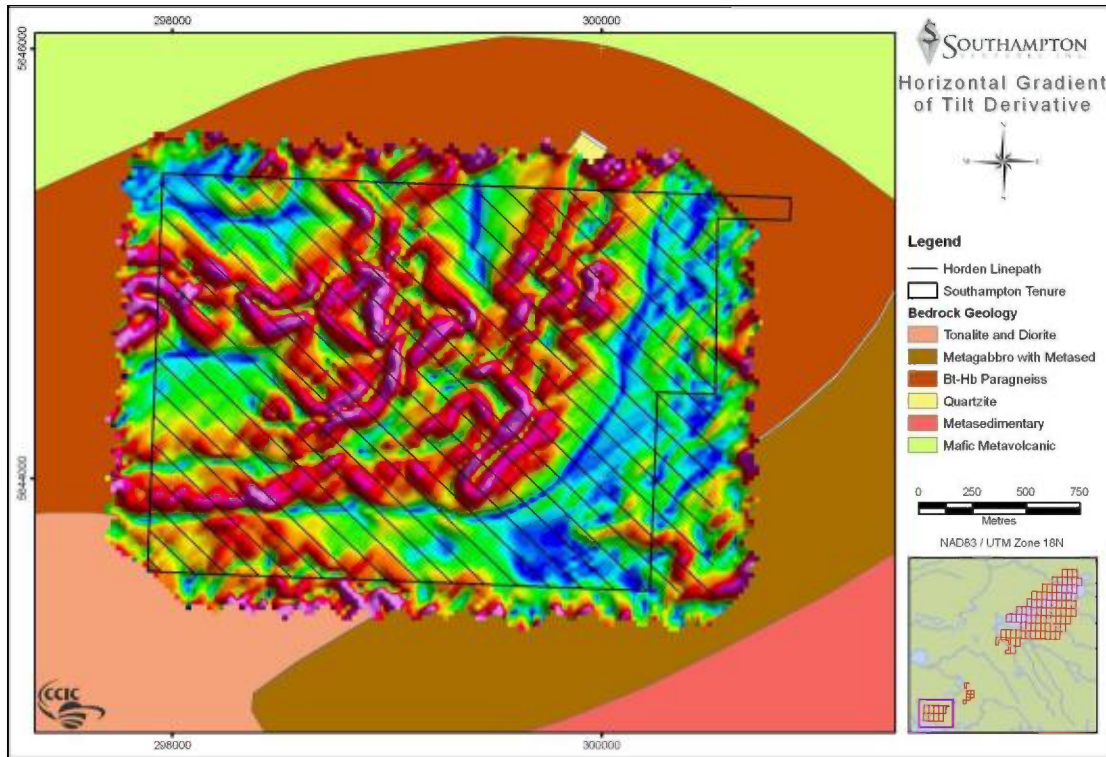


Figure 4-19. Hornden Lake Southwest - Horizontal Gradient of Tilt Derivative

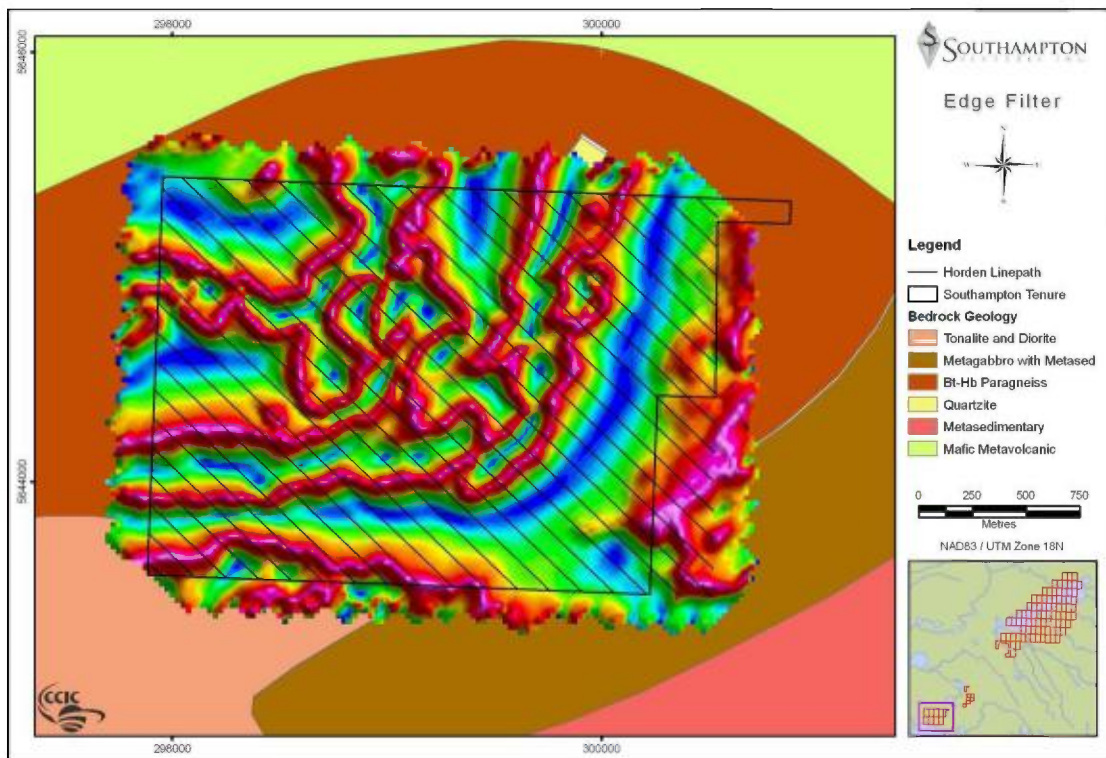


Figure 4-20. Hornden Lake Southwest - Edge Filter

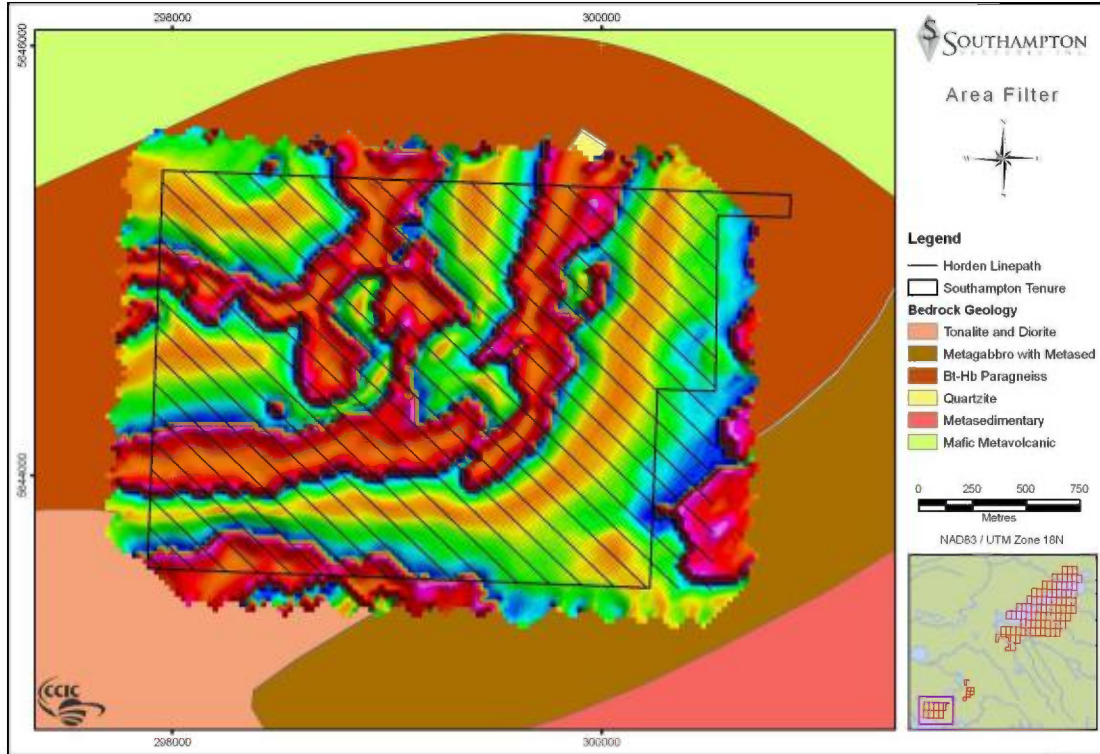


Figure 4-21. Horden Lake Southwest - Area Filter



Appendix 5

Highlights of Drill Core Assays





Drill Hole	incl	From (m)	To (m)	Drill Length (m)*	Cu (%)	Ni (%)	g Au/t	g Pt/t	g Pd/t
HN-08-01		151.70	154.80	3.10	1.880	0.400	0.220	0.190	0.440
HN-08-02		198.00	200.00	2.00	1.150	0.420	0.030	0.010	0.240
HN-08-02		225.00	231.00	6.00	2.030	0.420	0.050	0.030	0.160
HN-08-03		243.00	245.75	2.75	1.320	0.530	0.040	0.010	0.310
HN-08-03		250.20	253.70	3.50	1.730	0.350	0.100	0.020	0.250
HN-08-04		227.00	235.00	8.00	0.440	0.030	1.450	0.020	0.120
HN-08-04		295.00	297.00	2.00	3.410	0.190	1.430	0.000	0.290
HN-08-05		265.00	273.00	8.00	0.575	0.032	0.870	0.096	0.158
HN-08-05	incl	270.00	273.00	3.00	0.751	0.023	1.270	0.093	0.165
HN-08-05	and	294.00	297.00	3.00	1.088	0.041	0.771	0.021	0.052
HN-08-05	incl	294.00	294.70	0.70	1.630	0.021	1.969	0.011	0.030
HN-08-05	and	314.00	315.00	1.00	1.026	0.133	0.378	0.098	0.456
HN-08-05	and	316.00	317.00	1.00	1.074	0.235	1.057	0.053	0.621
HN-08-05	incl	316.00	316.50	0.50	1.500	0.394	1.723	0.028	1.051
HN-08-06		60.50	64.00	3.50	1.894	0.294	0.133	0.073	0.457
HN-08-06	incl	61.00	63.00	2.00	2.718	0.318	0.217	0.114	0.638
HN-08-06	incl	61.00	61.50	0.50	1.990	0.460	0.187	0.003	1.038
HN-08-06	and	73.00	76.00	3.00	3.375	0.582	0.527	0.089	0.595
HN-08-06	incl	73.00	75.00	2.00	4.078	0.531	0.472	0.080	0.492
HN-08-06	incl	75.00	75.50	0.50	1.750	0.886	0.462	0.120	0.913
HN-08-07		98.00	99.00	1.00	1.780	0.017	0.072	0.003	0.020
HN-08-07	and	102.71	108.00	5.29	2.094	0.749	0.226	0.117	0.578
HN-08-07	incl	102.71	104.00	1.29	4.300	0.620	0.762	0.142	0.294
HN-08-07	incl	106.00	107.00	1.00	1.890	1.230	0.046	0.254	1.097
HN-08-08		91.00	94.18	3.18	1.725	0.516	0.708	0.041	0.534
HN-08-08	incl	92.73	94.18	1.45	1.830	0.682	0.976	0.044	0.708
HN-08-09		112.00	113.00	1.00	3.350	0.458	0.498	0.041	0.278
HN-08-10		156.50	160.00	3.50	1.630	0.470	0.200	0.120	0.390
HN-08-11		224.00	225.00	1.00	1.480	0.150	0.810	0.060	0.250
HN-08-11		233.00	234.00	1.00	0.970	0.510	0.070	0.040	0.260
HN-08-12		278.50	284.00	5.50	1.960	0.560	0.120	0.120	0.500
HN-08-13		72.60	73.60	1.00	0.018	0.030	0.003	0.045	0.532
HN-08-13	and	223.70	224.40	0.70	0.030	0.001	0.147	0.202	0.567
HN-08-13	and	297.00	297.50	0.50	0.779	0.509	0.116	0.204	0.532
HN-08-13	and	319.60	320.30	0.70	0.647	0.340	0.026	0.227	0.530
HN-08-13	and	323.55	330.35	6.80	0.915	0.562	0.082	0.058	0.344
HN-08-13	incl	324.50	326.00	1.50	0.260	1.219	0.015	0.048	0.538
HN-08-13	incl	326.00	327.00	1.00	2.560	0.361	0.242	0.030	0.341
HN-08-14		337.50	338.00	0.50	1.295	0.363	0.038	0.085	0.506
HN-08-14	and	340.15	344.10	3.95	1.101	0.390	0.108	0.070	0.516
HN-08-14	incl	340.15	341.10	0.95	2.408	0.187	0.124	0.077	0.247
HN-08-14	incl	341.10	341.60	0.50	0.529	0.099	0.259	0.017	1.188
HN-08-14	incl	341.60	342.10	0.50	1.950	0.419	0.229	0.057	0.266
HN-08-14	incl	343.05	343.60	0.55	0.210	1.435	0.015	0.173	0.700
HN-08-15		133.50	134.00	0.50	0.424	0.691	0.182	0.029	0.416
HN-08-15	and	160.00	161.00	1.00	1.500	0.549	0.116	0.045	0.105
HN-08-15	and	176.00	184.00	8.00	1.504	0.363	0.134	0.044	0.247



Drill Hole	incl	From (m)	To (m)	Drill Length (m)*	Cu (%)	Ni (%)	g Au/t	g Pt/t	g Pd/t
HN-08-15	incl	177.00	178.50	1.50	1.870	0.482	0.183	0.013	0.305
HN-08-15	incl	178.50	179.00	0.50	1.280	0.733	0.023	0.146	0.392
HN-08-15	incl	180.50	181.00	0.50	2.900	0.266	0.018	0.006	0.024
HN-08-15	incl	182.00	183.00	1.00	3.640	0.194	0.262	0.051	0.158
HN-08-16		239.50	251.80	12.30	1.247	0.420	0.092	0.059	0.324
HN-08-16	incl	240.00	241.50	1.50	0.849	0.762	0.060	0.041	0.591
HN-08-16	incl	244.00	251.00	7.00	1.588	0.375	0.095	0.060	0.267
HN-08-17		249.00	250.00	1.00	1.560	0.057	2.014	0.030	0.051
HN-08-17	and	261.00	262.50	1.50	1.500	0.053	0.354	0.016	0.031
HN-08-17	and	265.69	278.00	12.31	1.061	0.292	0.180	0.082	0.255
HN-08-17	incl	269.17	270.17	1.00	0.428	0.713	0.032	0.206	0.707
HN-08-17	incl	271.00	272.00	1.00	1.830	0.339	0.251	0.077	0.261
HN-08-18		no significant results							
HN-08-19		348.00	350.00	2.00	1.211	0.252	0.003	0.021	0.100
HN-08-19	and	351.00	353.00	2.00	0.325	0.607	0.018	0.003	0.325
HN-08-19	and	359.00	360.00	1.00	1.035	0.243	0.035	0.011	0.060
HN-08-20		90.00	97.00	7.00	1.090	0.440	0.100	0.060	0.270
HN-08-21		56.50	57.00	0.50	1.750	0.254	0.114	0.207	0.150
HN-08-21	and	109.50	114.50	5.00	1.135	0.469	0.071	0.081	0.595
HN-08-21	incl	111.00	111.50	0.50	0.223	0.794	0.020	0.358	1.167
HN-08-21	incl	112.50	114.50	2.00	2.375	0.275	0.129	0.039	0.304
HN-08-21	and	116.50	122.50	6.00	1.165	0.223	0.181	0.042	0.155
HN-08-21	incl	116.50	117.50	1.00	2.010	0.214	0.334	0.038	0.228
HN-08-21	incl	119.00	119.75	0.75	3.080	0.127	0.078	0.049	0.133
HN-08-21	incl	121.00	121.50	0.50	0.290	0.683	0.003	0.042	0.253
HN-08-22		141.00	142.00	1.00	1.430	0.350	0.080	0.060	0.230
HN-08-22	and	155.10	163.00	7.90	1.160	0.520	0.090	0.060	0.390
HN-08-23		217.00	218.00	1.00	0.517	0.667	0.080	0.986	0.366
HN-08-23	and	223.00	228.00	5.00	2.024	0.473	0.117	0.025	0.443
HN-08-23	incl	224.00	226.00	2.00	3.015	0.365	0.153	0.031	0.493
HN-08-23	incl	226.00	228.00	2.00	1.600	0.788	0.068	0.022	0.581
HN-08-24		133.00	134.00	1.00	0.561	0.273	1.473	0.085	0.376
HN-08-24	and	184.00	185.00	1.00	0.339	0.051	0.531	0.609	0.679
HN-08-24	and	201.14	202.14	1.00	0.379	0.674	0.034	0.093	0.403
HN-08-24	and	203.00	204.00	1.00	0.015	0.065	0.003	0.073	0.803
HN-08-24	and	261.72	264.18	2.46	1.388	0.344	0.055	0.041	0.184
HN-08-24	incl	261.72	262.11	0.39	4.230	0.415	0.124	0.067	0.283
HN-08-24	incl	263.76	264.18	0.42	2.270	0.855	0.036	0.062	0.268
HN-08-25		241.00	243.00	2.00	0.889	0.031	1.582	0.084	0.208
HN-08-25	and	258.77	263.15	4.38	0.800	0.603	0.040	0.051	0.343
HN-08-25	incl	260.85	261.48	0.63	1.715	0.491	0.053	0.019	0.287
HN-08-25	incl	261.48	262.02	0.54	0.131	1.360	0.003	0.003	0.519
HN-08-25	incl	262.46	263.15	0.69	1.470	0.268	0.065	0.015	0.563
HN-08-25	and	308.70	310.35	1.65	1.690	0.214	0.041	0.043	0.145
HN-08-26		355.30	356.90	1.60	2.188	0.170	0.028	0.077	0.185
HN-08-26	incl	355.80	356.30	0.50	3.510	0.392	0.067	0.038	0.188
HN-08-27		46.00	47.00	1.00	0.683	0.018	1.029	0.205	0.390



Drill Hole	incl	From (m)	To (m)	Drill Length (m)*	Cu (%)	Ni (%)	g Au/t	g Pt/t	g Pd/t
HN-08-27	and	70.50	72.50	2.00	1.357	0.436	1.200	0.140	0.510
HN-08-28		27.00	28.00	1.00	1.330	0.173	0.085	0.054	0.116
HN-08-28	and	39.00	40.00	1.00	0.013	0.728	0.003	0.098	0.146
HN-08-28	and	59.00	62.00	3.00	0.696	0.020	0.951	0.168	0.363
HN-08-28	and	95.00	97.00	2.00	0.983	0.440	0.118	0.045	0.278
HN-08-28	and	101.00	105.00	4.00	1.031	0.632	0.119	0.080	0.295
HN-08-28	incl	103.00	104.00	1.00	1.880	0.697	0.050	0.148	0.331
HN-08-29		158.00	170.00	12.00	2.283	0.336	0.224	0.033	0.127
HN-08-29	incl	158.00	160.00	2.00	1.020	0.707	0.003	0.003	0.011
HN-08-29	incl	162.00	164.00	2.00	3.025	0.322	0.315	0.036	0.131
HN-08-29	incl	166.00	170.00	4.00	4.218	0.400	0.462	0.053	0.261
HN-08-29	and	174.00	174.50	0.50	1.240	0.030	0.038	0.022	0.016
HN-08-30		221.05	221.65	0.60	0.572	0.292	0.238	0.184	0.574
HN-08-30	and	223.60	224.30	0.70	0.435	0.078	1.185	0.039	0.143
HN-08-30	and	233.45	237.70	4.25	1.142	0.231	0.137	0.095	0.159
HN-08-30	incl	233.45	234.40	0.95	1.850	0.134	0.214	0.072	0.117
HN-08-30	incl	235.35	236.05	0.70	0.732	0.848	0.057	0.344	0.397
HN-08-30	and	243.75	255.00	11.25	2.012	0.113	0.433	0.084	0.205
HN-08-30	incl	243.75	244.35	0.60	3.775	0.310	0.186	0.101	0.401
HN-08-30	incl	246.00	247.00	1.00	7.290	0.369	0.411	0.040	0.181
HN-08-30	incl	249.20	249.85	0.65	4.440	0.499	0.558	0.160	0.206
HN-08-31		247.00	248.00	1.00	2.560	0.065	0.722	0.079	0.154
HN-08-31	and	253.00	259.00	6.00	1.200	0.230	0.136	0.055	0.120
HN-08-31	incl	256.00	257.00	1.00	1.830	0.219	0.186	0.061	0.135
HN-08-31	and	262.00	267.50	5.50	1.759	0.113	0.291	0.112	0.154
HN-08-31	incl	266.00	266.50	0.50	5.640	0.221	0.177	0.337	0.157
HN-08-31	and	269.00	270.00	1.00	5.073	0.086	2.026	0.009	1.334
HN-08-31	and	271.50	277.00	5.50	2.690	0.347	0.386	0.082	0.369
HN-08-31	incl	271.50	275.00	3.50	3.901	0.205	0.410	0.069	0.408
HN-08-31	incl	273.00	273.50	0.50	12.250	0.235	0.188	0.050	0.136
HN-08-31	incl	275.00	276.00	1.00	0.674	0.936	0.101	0.116	0.264
HN-08-32		303.30	322.95	19.65	0.940	0.150	0.200	0.040	0.160
HN-08-32	incl	312.00	314.00	2.00	1.500	0.160	0.200	0.040	0.260
HN-08-32	incl	321.00	322.05	1.05	7.050	0.330	1.360	0.160	0.270
HN-08-33		320.00	321.00	1.00	0.523	0.630	0.089	0.336	0.472
HN-08-33	and	324.00	325.32	1.32	1.085	0.187	0.311	0.042	0.109
HN-08-33	and	325.32	325.86	0.54	0.346	1.390	0.026	0.971	0.874
HN-08-33	and	336.00	338.75	2.75	2.285	0.264	0.680	0.044	0.205
HN-08-33	incl	337.83	338.75	0.92	3.760	0.316	1.124	0.100	0.188
HN-08-34		113.00	116.00	3.00	1.843	0.326	0.374	0.069	0.234
HN-08-34	incl	114.50	116.00	1.50	2.537	0.572	0.260	0.083	0.177
HN-08-35		98.50	99.00	0.50	1.285	0.025	0.234	0.015	0.037
HN-08-35	and	130.00	133.50	3.50	4.466	0.285	0.914	0.166	0.376
HN-08-36		127.15	127.55	0.40	0.834	0.058	1.192	0.139	0.282
HN-08-36	and	141.00	143.00	2.00	0.030	0.047	0.011	0.646	0.586
HN-08-36	and	151.90	152.35	0.45	0.961	0.022	3.080	0.003	0.035
HN-08-36	and	159.30	162.00	2.70	2.067	0.210	0.154	0.059	0.154



Drill Hole	incl	From (m)	To (m)	Drill Length (m)*	Cu (%)	Ni (%)	g Au/t	g Pt/t	g Pd/t
HN-08-36	incl	160.55	161.00	0.45	4.490	0.342	0.217	0.173	0.244
HN-08-36	and	163.00	164.00	1.00	0.503	0.857	0.061	0.046	0.398
HN-08-36	and	164.50	167.00	2.50	1.902	0.159	0.246	0.033	0.231
HN-08-36	and	173.00	175.00	2.00	1.093	0.075	0.007	0.016	0.021
HN-08-37		247.50	252.00	4.50	1.372	0.274	0.154	0.096	0.390
HN-08-37	incl	247.50	248.00	0.50	2.240	0.247	0.316	0.091	1.987
HN-08-37	incl	250.50	252.00	1.50	2.112	0.223	0.140	0.027	0.150
HN-08-38		254.00	255.00	1.00	1.490	0.352	0.157	0.150	0.406
HN-08-38	and	266.00	268.00	2.00	1.118	0.154	0.545	0.051	0.181
HN-08-38	and	277.00	280.00	3.00	1.470	0.172	0.326	0.117	0.285
HN-08-39		no significant results							
HN-08-40		342.55	344.75	2.20	1.539	0.461	0.084	0.095	0.324
HN-08-41		77.15	79.15	2.00	1.195	0.646	0.048	0.093	0.481
HN-08-41	incl	77.15	77.72	0.57	0.540	1.900	0.028	0.229	1.147
HN-08-41	and	86.75	87.75	1.00	1.910	0.134	2.036	0.062	0.616
HN-08-41	and	93.45	94.70	1.25	1.260	0.629	0.183	0.251	0.320
HN-08-42		108.40	109.40	1.00	0.769	0.652	0.087	0.060	0.488
HN-08-42	and	110.40	111.00	0.60	2.160	0.187	0.074	0.033	0.181
HN-08-43		150.04	157.00	6.96	1.347	0.605	0.173	0.202	0.460
HN-08-43	incl	154.00	155.81	1.81	1.720	0.874	0.228	0.442	0.449
HN-08-43	incl	155.81	157.00	1.19	1.940	0.096	0.181	0.003	0.065
HN-08-43	and	166.00	167.82	1.82	1.586	0.184	0.117	0.516	0.863
HN-08-44		225.50	226.05	0.55	0.830	0.172	1.403	0.142	0.499
HN-08-44	and	227.55	228.35	0.80	0.536	0.518	0.407	0.175	0.520
HN-08-44	and	244.00	250.50	6.50	1.648	0.498	0.263	0.119	0.600
HN-08-44	incl	244.00	246.00	2.00	1.076	0.811	0.083	0.221	0.716
HN-08-44	incl	246.00	246.63	0.63	2.610	0.219	0.382	0.262	0.575
HN-08-44	incl	250.00	250.50	0.50	6.120	0.479	0.378	0.003	0.003
HN-08-45		no significant results							
HN-08-46		318.79	319.20	0.41	0.308	1.510	0.110	0.070	1.612
HN-08-46	and	323.00	332.00	9.00	1.116	0.318	0.128	0.031	0.341
HN-08-46	incl	327.69	328.69	1.00	1.530	0.782	0.236	0.039	0.704
HN-08-47		327.55	328.20	0.65	0.521	0.573	0.057	0.108	0.574
HN-08-47	and	329.60	340.80	11.20	1.046	0.417	0.150	0.122	0.346
HN-08-47	incl	330.70	331.20	0.50	3.100	0.456	0.185	0.514	0.318
HN-08-47	incl	331.90	332.40	0.50	2.230	0.572	0.030	0.152	0.463
HN-08-47	incl	333.00	333.75	0.75	0.377	0.927	0.296	0.032	0.832
HN-08-48		68.81	77.00	8.19	1.171	0.199	1.263	0.077	0.138
HN-08-48	incl	75.00	76.00	1.00	2.720	0.094	8.656	0.058	0.076
HN-08-49		86.35	95.50	9.15	1.634	0.437	0.488	0.111	0.330
HN-08-49	incl	89.00	89.50	0.50	1.830	0.100	1.801	0.050	0.096
HN-08-49	incl	89.50	90.95	1.45	3.373	0.661	0.393	0.119	0.534
HN-08-49	incl	91.50	93.00	1.50	2.180	0.716	0.593	0.148	0.453
HN-08-49	incl	93.00	93.50	0.50	1.430	0.692	1.022	0.152	0.544
HN-08-50		142.96	143.50	0.54	0.480	0.547	0.128	0.125	0.535
HN-08-50	and	174.00	179.86	5.86	1.943	0.235	0.345	0.073	0.218
HN-08-50	incl	177.00	178.15	1.15	3.567	0.203	0.666	0.082	0.213



Drill Hole	incl	From (m)	To (m)	Drill Length (m)*	Cu (%)	Ni (%)	g Au/t	g Pt/t	g Pd/t
HN-08-50	incl	178.15	179.00	0.85	2.210	0.575	0.481	0.080	0.539
HN-08-51		246.00	260.00	14.00	0.500	0.090	0.160	0.030	0.090
HN-08-52		247.00	247.50	0.50	1.590	0.224	0.177	0.085	0.239
HN-08-52	and	249.50	251.00	1.50	1.145	0.177	0.065	0.029	0.144
HN-08-52	and	271.50	273.25	1.75	1.461	0.187	0.341	0.084	0.236
HN-08-52	and	277.00	277.75	0.75	2.645	0.262	0.072	0.024	0.200
HN-08-52	and	282.20	286.50	4.30	1.898	0.455	0.168	0.052	0.208
HN-08-52	incl	285.00	286.00	1.00	3.270	0.708	0.339	0.031	0.266
HN-08-53		313.22	319.00	5.78	1.320	0.258	0.134	0.062	0.204
HN-08-53	incl	316.80	317.48	0.68	3.740	0.322	0.252	0.053	0.272
HN-08-53	and	333.12	334.45	1.33	2.359	0.411	0.271	0.015	0.218
HN-08-53	and	336.50	337.90	1.40	1.371	0.179	0.446	0.019	0.035
HN-08-54		337.70	338.25	0.55	1.410	0.267	0.092	0.039	0.199
HN-08-54	and	355.30	356.15	0.85	3.010	0.046	0.139	0.011	0.150
HN-08-55		88.00	89.00	1.00	1.090	0.142	0.196	0.025	0.112
HN-08-55	and	97.35	103.20	5.85	2.837	0.313	0.379	0.054	0.164
HN-08-55	incl	97.35	97.93	0.58	8.580	0.579	0.516	0.089	0.335
HN-08-55	incl	100.18	101.26	1.08	3.080	0.316	1.052	0.031	0.170
HN-08-55	incl	101.77	102.55	0.78	3.350	0.271	0.109	0.040	0.078
HN-08-56		96.00	104.00	8.00	1.153	0.183	0.234	0.039	0.126
HN-08-56	incl	97.00	98.00	1.00	1.700	0.136	0.123	0.019	0.064
HN-08-56	incl	103.00	104.00	1.00	2.140	0.164	0.287	0.020	0.163
HN-08-56	and	120.00	129.00	9.00	1.724	0.327	0.328	0.112	0.192
HN-08-56	incl	124.00	127.00	3.00	2.507	0.315	0.300	0.089	0.155
HN-08-57		153.00	180.27	27.27	0.500	0.190	0.080	0.030	0.160
HN-08-57	incl	157.00	159.00	2.00	0.980	0.170	0.160	0.030	0.110
HN-08-57	incl	177.00	180.27	3.27	0.990	0.380	0.160	0.030	0.420
HN-08-58		240.00	240.50	0.50	1.680	0.162	0.128	0.074	0.137
HN-08-58	and	243.50	253.00	9.50	1.961	0.217	0.526	0.067	0.245
HN-08-58	incl	245.75	246.25	0.50	0.967	0.804	0.206	0.022	0.222
HN-08-58	incl	247.00	247.75	0.75	2.180	0.186	0.165	0.050	0.174
HN-08-58	incl	250.00	253.00	3.00	3.257	0.098	1.331	0.123	0.355
HN-08-58	incl	250.50	251.15	0.65	12.730	0.367	2.561	0.070	0.150
HN-08-59		252.52	263.00	10.48	1.541	0.273	0.317	0.073	0.253
HN-08-59	incl	256.04	258.00	1.96	2.904	0.192	0.406	0.072	0.444
HN-08-59	incl	259.61	260.67	1.06	0.382	0.915	0.140	0.060	0.476
HN-08-60		300.00	307.60	7.60	1.829	0.156	0.267	0.060	0.190
HN-08-60	incl	300.70	302.00	1.30	3.554	0.227	0.494	0.119	0.250
HN-08-60	incl	307.00	307.60	0.60	4.370	0.199	0.443	0.039	0.134
HN-08-61		302.70	303.52	0.82	0.487	0.971	0.032	0.025	0.560
HN-08-61	and	306.84	308.00	1.16	0.362	0.607	0.050	0.062	0.497
HN-08-61	and	314.00	315.00	1.00	1.580	0.076	0.140	0.035	0.041
HN-08-61	and	323.00	332.00	9.00	2.917	0.253	0.466	0.067	0.182
HN-08-61	incl	325.00	329.00	4.00	4.278	0.301	0.413	0.047	0.168
HN-08-61	incl	328.00	331.00	3.00	2.750	0.217	0.995	0.038	0.219
HN-08-62		87.50	88.00	0.50	1.545	0.270	0.255	0.095	0.298
HN-08-62	and	99.00	102.00	3.00	1.426	0.443	0.077	0.012	0.165



Drill Hole	incl	From (m)	To (m)	Drill Length (m)*	Cu (%)	Ni (%)	g Au/t	g Pt/t	g Pd/t
HN-08-62	incl	100.00	100.50	0.50	2.020	0.404	0.061	0.003	0.100
HN-08-62	and	108.00	108.50	0.50	0.254	0.810	0.019	0.014	0.303
HN-08-62	and	108.50	109.00	0.50	0.381	0.227	0.146	0.014	0.626
HN-08-63		128.00	129.00	1.00	0.953	0.061	0.168	0.023	0.018
HN-08-63	and	134.00	134.50	0.50	1.470	0.071	0.055	0.016	0.063
HN-08-63	and	136.00	137.00	1.00	1.390	0.149	0.202	0.033	0.071
HN-08-69		85.50	89.50	4.00	3.097	0.262	0.172	0.037	0.199
HN-08-69	incl	86.50	87.00	0.50	7.410	0.155	0.440	0.042	0.414
HN-08-69	incl	87.00	88.00	1.00	5.020	0.210	0.174	0.030	0.183
HN-08-70		118.50	119.00	0.50	0.434	0.552	0.139	0.056	0.370
HN-08-71		132.93	138.00	5.07	1.863	0.163	0.071	0.020	0.127
HN-08-71	incl	136.00	137.00	1.00	3.120	0.201	0.142	0.028	0.218
HN-08-71	and	140.95	142.45	1.50	2.425	0.600	0.127	0.015	0.218
HN-08-71	incl	141.50	142.45	0.95	3.325	0.745	0.171	0.015	0.264
HN-08-72		30.50	31.00	0.50	1.135	0.084	0.018	0.003	0.003
HN-08-72	and	205.45	212.65	7.20	1.750	0.503	0.158	0.028	0.183
HN-08-72	incl	206.65	207.20	0.55	3.460	0.256	0.189	0.003	0.044
HN-08-72	incl	207.20	208.20	1.00	0.569	0.739	0.064	0.013	0.224
HN-08-72	incl	210.00	210.95	0.95	2.930	0.640	0.312	0.056	0.389
HN-08-72	incl	210.95	212.05	1.10	1.907	0.861	0.421	0.089	0.391
HN-08-72	incl	212.05	212.65	0.60	3.570	0.170	0.104	0.003	0.003
HN-08-73		222.00	224.00	2.00	1.022	0.230	0.015	0.105	0.097
HN-08-73	incl	222.00	222.50	0.50	1.520	0.153	0.011	0.071	0.080
HN-08-73	and	226.00	228.50	2.50	1.329	0.290	0.078	0.019	0.116
HN-08-73	incl	226.50	227.50	1.00	2.140	0.407	0.089	0.020	0.149
HN-08-74		280.00	288.35	8.35	0.981	0.316	0.038	0.027	0.106
HN-08-74	incl	284.36	284.88	0.52	1.140	0.592	0.038	0.018	0.108
HN-08-74	incl	287.00	287.80	0.80	1.710	0.219	0.023	0.003	0.073
HN-08-76		80.60	82.60	2.00	0.963	0.223	0.058	0.009	0.251
HN-08-76	incl	80.60	81.10	0.50	0.214	0.574	0.008	0.008	0.305
HN-08-76	incl	82.00	82.60	0.60	1.620	0.102	0.122	0.019	0.367
HN-08-76	and	90.95	91.30	0.35	0.822	0.583	0.192	0.012	0.126
HN-08-76	and	94.00	94.71	0.71	4.230	0.415	0.388	0.003	0.003
HN-08-77		76.00	76.50	0.50	1.630	0.008	0.643	0.003	0.012
HN-08-77	and	82.00	83.00	1.00	0.862	1.710	0.003	0.014	0.007
HN-08-77	and	96.00	102.00	6.00	1.618	0.102	0.179	0.014	0.075
HN-08-77	incl	96.00	97.00	1.00	2.990	0.108	0.857	0.006	0.102
HN-08-77	incl	101.00	102.00	1.00	4.030	0.053	0.031	0.003	0.003
HN-08-78		475.50	476.50	1.00	0.494	0.623	0.033	0.057	0.154
HN-08-78	and	480.00	481.50	1.50	2.310	0.113	0.452	0.031	0.089
HN-08-78	incl	481.00	481.50	0.50	3.620	0.126	0.477	0.047	0.134
HN-08-78	and	503.00	504.00	1.00	0.813	1.920	0.003	0.003	0.003
HN-08-79		356.15	357.00	0.85	0.154	0.105	0.016	0.191	0.645
HN-08-79	and	524.35	526.45	2.10	1.830	0.930	0.090	0.003	0.607
HN-08-79	and	528.10	528.51	0.41	0.230	0.552	0.003	0.003	0.277



Appendix 6

Drill Hole Sections and Plans



NUMÉRIQUE

PAGE(S) DE DIMENSION HORS STANDARD
NUMÉRISÉE ET POSITIONNÉE À LA SUITE DES
PRÉSENTES PAGES STANDARDS.



Appendix 7

Certificates of Analysis for Standards: APG3, OREAS_14P, SMG1



CERTIFICATE OF ANALYSIS
APG3

Recommended Value +/- One Standard Deviation

Au 531 +/- 51 ppb
Pt 504 +/- 33 ppb
Pd 8531 +/- 406 ppb
Cu 1616 +/- 105 ppm
Ni 1649 +/- 190 ppm
Co 63 +/- 5 ppm

WARNING

The recommended value for APG3 for the element listed above pertains to the date of issue and Accurassay Laboratories cannot be responsible for changes occurring after receipt. It is strongly recommended that all bottles be stored in a dessicator (keep sample away from moisture). The contents of the bottle should be exposed to air for the shortest time possible when taking subsets. Unless these precautions are followed, the recommended values are potentially subject to change. Shake each bottle well prior to use. APG3 is intended for internal use only.

DESCRIPTION

The material for APG3 was provided to Accurassay Laboratories by a third party. The sample was pulverized to -200 mesh and blended. The blended sample was then analyzed to demonstrate suitable homogeneity, and bottled in approximately 800-gram units.

CERTIFICATION

Homogeneity testing was performed on 40 subsets for gold, platinum, palladium, copper, nickel and cobalt. All values for each element are reported within 15% of each other.

The recommended values for all elements are the unweighted means of 164 analytical determinations by Accurassay Laboratories.

The gold, platinum and palladium were pre-concentrated by fire assay techniques and analyzed using atomic absorption spectroscopy. A sample mass of 30.2 grams and a final volume of 3 mLs was used in this determination.

The copper, nickel and cobalt were prepared by using an aqua regia decomposition and analyzed using atomic absorption spectroscopy. A sample mass of 0.25 g and a final volume of 10 mLs was used.

The gold, platinum, palladium, copper, nickel and cobalt results from these determinations were converted into parts-per-billion (ppb), then into parts-per-million (ppm).

TRACEABILITY

Each batch of certification samples was run with a certified reference material provided by CANMET. The values obtained are therefore traceable to the CANMET reference material. The certified reference material used was WMG-1 and RTS-2. The values for the reference materials are listed below.

WMG-1		
Au (110 +/- 25 ppb)	Pt (731 +/- 81 ppb)	Pd (382 +/-28 ppb)
103.82	522.94	383.53
140.53	734.12	450
104.12	793.24	373.24
105.29	840.29	360
113.24	818.82	388.53
102.35	713.82	392.06
88.24	756.47	424.18
111.47	712.65	413.82
96.47	820	420
95	759.71	328.53
128.24	795	375.59
117.65	702.06	407.06
115.59	636.18	429.41
127.94	722.06	377.65
110.59	791.47	406.18
112.94	777.06	421.76
131.18	884.71	394.96
109.18	833.82	410.29
104.71	796.76	412.35

RTS-2		
Cu (670 +/- 46.6 ppm)	Ni (2430 +/- 160 ppm)	Co (72 +/- 11.3 ppm)
654.48	2479.73	81.50
669.072	2678.304	83.616
597.504	2607.94	71.088
665.04	2561.33	85.152
629.81	2592.192	81.984
606.288	2746.704	75.072
622.848	2621.472	84.192
625.536	2179.056	74.976
638.496	2290.944	83.232

REFERENCE

The preparation and certification procedures used for APG3 are described in an article by Wesley M. Johnson in the Geostandards Newsletter, Vol. 15, No. 1, April 1991, p. 23 to 31, entitled "Use of Geochemical Reference Materials In A Quality Control/Quality Assurance Program".

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CERTIFICATE OF ANALYSIS FOR
MAGMATIC MASSIVE SULPHIDE ORE
REFERENCE MATERIAL OREAS 14P

SUMMARY STATISTICS

Recommended value and 95% confidence interval

Constituent	Recommended value	95% Confidence Interval	
		Low	High
Copper, Cu (%)	0.997	0.979	1.015
Gold, Au (ppb)	51	50	52
Nickel, Ni (%)	2.09	2.04	2.14
Palladium, Pd (ppb)	150	147	153
Platinum, Pt (ppb)	99	96	102

Prepared by:
Ore Research & Exploration Pty Ltd
November 2003

INTRODUCTION

OREAS certified reference materials (CRMs) are intended to provide a low cost method of evaluating and improving the quality of precious and base metal analysis of geological samples. To the analyst they provide an effective means of calibrating analytical equipment, assessing new techniques and routinely monitoring in-house procedures. To the geologist they provide a means of implementing quality control in analytical data sets generated in exploration, from the grass roots level through to prospect evaluation, and in grade control at mining operations.

As a rule only source materials exhibiting a high level of homogeneity of the element(s) of interest are used in the preparation of these materials. This has enabled Ore Research & Exploration to produce a range of CRMs exhibiting homogeneity that matches or exceeds that of currently available international reference materials. In certain instances CRMs produced from a single source are sufficiently homogeneous to produce a relatively coarse-grained form designed to simulate drill chip samples. These have a grain size of minus 3mm and are designated with a "C" suffix to the CRM identification number. These standards are packaged in 1kg units following homogenisation and are intended for submission to analytical laboratories in subsample sizes of as little as 250g. They offer the added advantages of providing a check on both sample preparation and analytical procedures while acting as a blind standard to the assay laboratory. The more conventional pulped standards have a grain size of minus 20 to minus 75 microns and a higher degree of homogeneity. These standards are distinguished by a "P" suffix to the standard identification number. In line with ISO recommendations successive batch numbers are now designated by the lower case suffixes "a", "b", "c", "d", etc.

SOURCE MATERIAL

Reference material OREAS 14P is one of two Ni-Cu-Pt-Pd-Au CRMs prepared from RC drill samples from the West Musgrave region of Western Australia. The samples from which both CRMs were derived were obtained from a mafic magma conduit within granulite country rock south of the Giles Complex in the Musgrave Block. OREAS 14P is a magmatic massive sulphide with ore grade concentrations of nickel and copper while its counterpart, OREAS 13P, is a mineralised leuco gabbro-norite containing disseminated Fe-Ni-Cu sulphides.

COMMUNITION AND HOMOGENISATION PROCEDURES

The material constituting OREAS 14P was prepared in the following manner:

- a) *drying to constant mass at 65^o C;*
- b) *crushing;*
- c) *milling to minus 25 microns;*
- d) *homogenisation;*
- e) *packaging into 100g lots sealed under N₂ in laminated foil pouches.*

ANALYSIS OF OREAS 14P

Fifteen analytical laboratories participated in the analytical program. Their results together with uncorrected means, medians, one sigma standard deviations, relative standard deviations and percent deviation of lab means from the corrected mean of means (PDM³) are presented in an appendix (Tables A2 to A30). The analytical methods employed by each laboratory are indicated as codes at the head of each laboratory data set and explained in Table A1 (Appendix).

The intent of the certification program was to obtain total concentration values for the elements of interest hence four acid (including HF) digest, borate or alkali fusion methods were employed for the lithophile elements and base metals in combination with an ICP-OES, ICP-MS or AAS reading method. Chromium and zirconium were both under-reported by 4 acid digest compared to fusion methods, presumably due to the presence of refractory host phases and/or volatilisation during digestion, and method dependent values are therefore provided for these elements. Sulphur was determined by 4 acid digest / ICP-OES (22.6% S) and Leco furnace (23.8% S) and although agreement between the two methods is reasonable the Leco value is considered more reliable at these concentrations as corroborated by the narrower confidence interval (Table 1).

For gold and the platinum group elements (PGEs) lead fire assay was used for gold, platinum and palladium and nickel sulphide fire assay for the six PGEs and gold with ICP-MS as the reading method. No statistical bias was observed between either method for platinum and palladium and results were therefore combined for treatment, while for gold under-reporting was evident to varying degrees for nickel sulphide collection and these results have been discarded. Gold, together with Ca, Cr, Co, Fe, Sc and Na, have been determined by instrumental neutron activation analysis (INAA) on a reduced analytical subsample of 0.5g to confirm homogeneity.

Samples used for the round robin evaluation were taken at regular intervals throughout the packaging of the standard and then laboratory sample sets were taken from these in a sequence designed to maximise their representation. The twenty INAA subsamples, on which much of the homogeneity evaluation is based, were also taken at regular intervals during packaging and are considered representative of the entire batch.

STATISTICAL EVALUATION OF ANALYTICAL DATA FOR OREAS 14P

Recommended Value and Confidence Limits

The certified value is the mean of means of accepted replicate values of accepted participating laboratories computed according to the formulae

$$\bar{x}_i = \frac{1}{n_i} \sum_{j=1}^{n_i} x_{ij}$$

$$\bar{x} = \frac{1}{p} \sum_{i=1}^p \bar{x}_i$$

where

x_{ij} is the j th result reported by laboratory i ;
 p is the number of participating laboratories;
 n_i is the number of results reported by laboratory i ;
 \bar{x}_i is the mean for laboratory i ;
 \bar{x} is the mean of means.

The confidence limits were obtained by calculation of the variance of the consensus value (mean of means) and reference to Student's- t distribution with degrees of freedom $(p-1)$.

$$\hat{V}(\bar{x}) = \frac{1}{p(p-1)} \sum_{i=1}^p (\bar{x}_i - \bar{x})^2$$

$$\text{Confidence limits} = \bar{x} \pm t_{1-x/2}(p-1)(\hat{V}(\bar{x}))^{1/2}$$

where $t_{1-x/2}(p-1)$ is the $1-x/2$ fractile of the t -distribution with $(p-1)$ degrees of freedom.

The distribution of the values are assumed to be symmetrical about the mean in the calculation of the confidence limits.

The test for rejection of individual outliers from each laboratory data set was based on z scores (rejected if $|z_i| > 2.5$) computed from the robust estimators of location and scale, T and S , respectively, according to the formulae

$$S = 1.483 \frac{\text{median} / x_j - \text{median} (x_i)}{j=1, \dots, n \quad i=1, \dots, n}$$

$$z_i = \frac{x_i - T}{S}$$

where

T is the median value in a data set;
 S is the median of all absolute deviations from the sample median multiplied by 1.483, a correction factor to make the estimator consistent with the usual parameter of a normal distribution.

Individual outliers and, more rarely, laboratory means deemed to be outlying are shown in bold in the tabulated results (Appendix) and have been omitted in the determination of recommended values.

The magnitude of the confidence interval is inversely proportional to the number of participating laboratories and interlaboratory agreement. It is a measure of the reliability of the recommended value, i.e. the narrower the confidence interval the greater the certainty in the recommended value.

Table 1. Recommended values and 95% confidence intervals for OREAS 14P

Constituent	Recommended value	95% Confidence Interval	
		Low	High
Aluminium, Al (percent)	2.26	2.15	2.37
Arsenic, As (ppm)	<5	IND	IND
Barium, Ba (ppm)	343	322	364
Calcium, Ca (percent)	0.99	0.95	1.03
Chromium, Cr (ppm)*	52	46	59
Chromium, Cr (ppm)**	45	43	46
Cobalt, Co (ppm)	754	739	769
Copper, Cu (percent)	0.997	0.979	1.015
Gold, Au (ppb)	51	50	52
Iridium, Ir (ppb)	46	44	48
Iron, Fe (percent)	37.1	36.1	38.1
Lead, Pb (ppm)	<20	IND	IND
Magnesium, Mg (percent)	0.28	0.26	0.30
Manganese, Mn (ppm)	595	569	620
Nickel, Ni (percent)	2.09	2.04	2.14
Osmium, Os (ppb)	70	54	86
Palladium, Pd (ppb)	150	147	153
Phosphorus, P (ppm)	550	510	580
Platinum, Pt (ppb)	99	96	102
Potassium, K (percent)	0.87	0.84	0.90
Rhodium, Rh (ppb)	60	53	67
Ruthenium, Ru (ppb)	108	102	114
Scandium, Sc (ppm)	5.5	4.6	6.5
Sodium, Na (percent)	0.58	0.55	0.61
Strontium, Sr (ppm)	87	83	91
Sulphur, S (percent): ICP	22.8	21.7	23.9
Sulphur, S (percent): Leco	23.8	23.5	24.2
Titanium, Ti (ppm)	2473	2401	2545
Vanadium, V (ppm)	67	65	69
Zinc, Zn (ppm)	81	74	88
Zirconium, Zr (ppm)*	189	174	204
Zirconium, Zr (ppm)**	44	31	57

*Analysis by fusion; **analysis by 4-acid digest; IND - indeterminate

Statement of Homogeneity

The standard deviation of each laboratory data set includes error due to both the imprecision of the analytical method employed and to possible inhomogeneity of the material analysed. The standard deviation of the pooled individual analyses of all participating laboratories includes error due to the imprecision of each analytical method, to possible inhomogeneity of the material analysed and, in particular, to deficiencies in accuracy of each analytical method. In determining tolerance intervals for elements other than gold that component of error attributable to measurement inaccuracy was eliminated by transformation of the individual results of each data set to a common mean (the uncorrected grand mean) according to the formula

$$x'_{ij} = x_{ij} - \bar{x}_i + \frac{\sum_{i=1}^p \sum_{j=1}^{n_i} x_{ij}}{\sum_{i=1}^p n_i}$$

where

x_{ij} is the j th raw result reported by laboratory i ;

x'_{ij} is the j th transformed result reported by laboratory i ;

n_i is the number of results reported by laboratory i ;

p is the number of participating laboratories;

\bar{x}_i is the raw mean for laboratory i .

Table 2. Recommended values and tolerance limits for OREAS 14P.

Constituent	Recommended value	Tolerance limits 1- α = 0.99, ρ = 0.95	
		Low	High
Aluminium, Al (percent)	2.26	2.23	2.29
Arsenic, As (ppm)	<5	IND	IND
Barium, Ba (ppm)	343	335	351
Calcium, Ca (percent)	0.99	0.97	1.01
Chromium, Cr (ppm)*	52	49	55
Chromium, Cr (ppm)**	45	42	48
Cobalt, Co (ppm)	754	742	766
Copper, Cu (percent)	0.997	0.990	1.004
Gold, Au (ppb)	51	48	54
Iridium, Ir (ppb)	46	IND	IND
Iron, Fe (percent)	37.1	36.8	37.4
Lead, Pb (ppm)	<20	IND	IND
Magnesium, Mg (percent)	0.28	0.27	0.29
Manganese, Mn (ppm)	595	584	605
Nickel, Ni (percent)	2.09	2.07	2.11
Osmium, Os (ppb)	70	IND	IND
Palladium, Pd (ppb)	150	146	154
Phosphorus, P (ppm)	550	530	560
Platinum, Pt (ppb)	99	94	104
Potassium, K (percent)	0.87	0.85	0.89
Rhodium, Rh (ppb)	60	IND	IND
Ruthenium, Ru (ppb)	108	IND	IND
Scandium, Sc (ppm)	5.5	5.4	5.6
Sodium, Na (percent)	0.58	0.57	0.59
Strontium, Sr (ppm)	87	85	88
Sulphur, S (percent): ICP	22.8	22.5	23.1
Sulphur, S (percent): Leco	23.8	23.5	24.1
Titanium, Ti (ppm)	2473	2417	2528
Vanadium, V (ppm)	67	64	69
Zinc, Zn (ppm)	81	78	85
Zirconium, Zr (ppm)*	189	184	194
Zirconium, Zr (ppm)**	44	39	49

*Analysis by fusion; **analysis by 4-acid digest; IND - indeterminate

The homogeneity of each constituent was determined from tables of factors for two-sided tolerance limits for normal distributions (ISO 3207) in which

Lower limit is $\bar{x} - k'_2(n, p, 1 - \alpha) s_g''$

Upper limit is $\bar{x} + k'_2(n, p, 1 - \alpha) s_g''$

where

n is the number of results;

$1 - \alpha$ is the confidence level;

p is the proportion of results expected within the tolerance limits;

k'_2 is the factor for two – sided tolerance limits (m, α unknown);

s_g'' is the corrected grand standard deviation.

The meaning of these tolerance limits may be illustrated for copper, where 99% of the time at least 95% of subsamples will have concentrations lying between 0.99 and 1.01%. Put more precisely, this means that if the same number of subsamples were taken and analysed in the same manner repeatedly, 99% of the tolerance intervals so constructed would cover at least 95% of the total population, and 1% of the tolerance intervals would cover less than 95% of the total population (ISO Guide 35).

The corrected grand standard deviation, s_g'' , used to compute the tolerance intervals is the weighted means of standard deviations of all data sets for a particular constituent according to the formula

$$s_g'' = \frac{\sum_{i=1}^p (s_i (1 - \frac{s_i}{s'_g}))}{\sum_{i=1}^p (1 - \frac{s_i}{s'_g})}$$

where

$1 - (\frac{s_i}{s'_g})$ is the weighting factor for laboratory i ;

s'_g is the grand standard deviation computed from the transformed (i.e. means - adjusted) results

according to the formula

$$s'_g = \left[\frac{\sum_{i=1}^p \sum_{j=1}^{n_i} (x'_{ij} - \bar{x}'_i)^2}{\sum_{i=1}^p n_i - 1} \right]^{1/2}$$

where \bar{x}'_i is the transformed mean for laboratory i

The weighting factors were applied to compensate for the considerable variation in analytical precision amongst participating laboratories. Hence, weighting factors for each data set have been constructed so as to be inversely proportional to the standard deviation

of that data set. A weighting factor of zero was applied to those data sets where $s_i / 2s_g' > 1$ (i.e. where the weighting factor $1 - s_i / 2s_g' < 0$). It should be noted that estimates of tolerance by this method are considered conservative as a significant proportion of the observed variance, even in those laboratories exhibiting the best analytical precision, can presumably be attributed to measurement error.

For gold a more simplified procedure was used in the determination of homogeneity. This entailed using the high precision INAA data alone, obtained on an analytical subsample weight of 0.5g (compared to 40-50g for the fire assay method). By employing a sufficiently reduced subsample weight in a series of determinations by the same method, analytical error becomes negligible in comparison to subsampling error. The corresponding standard deviation at a 50g subsample weight can then be determined from the observed standard deviation of the 0.5g data using the known relationship between the two parameters (Kleeman, 1967). The homogeneity of gold was then determined from tables of factors for two-sided tolerance limits for normal distributions. The high level of repeatability indicated by the low standard deviations in the laboratory data sets in Table A9 (particularly the 0.5 g INAA data) is consistent with the narrow calculated tolerance interval and is confirmation of the excellent homogeneity of gold in OREAS 14P.

For elements other than gold, outliers were removed prior to the calculation of tolerance intervals and a weighting factor of zero was applied to those data sets where $s_i / 2s_g' > 1$ (i.e. where the weighting factor $1 - s_i / 2s_g' < 0$).

Performance Gates

Performance gates provide an indication of a level of performance that might reasonably be expected from a routine laboratory being monitored by this standard in a QA/QC program. They incorporate errors attributable to bias, precision and inhomogeneity and are simply calculated from the standard deviation of the pooled individual analyses (fire assay data only) generated from the certification program. All individual and lab dataset (batch) outliers are removed prior to determination of the standard deviation. These outliers can only be removed after the absolute homogeneity of the CRM has been independently established, i.e. the outliers must be confidently deemed to be analytical rather than arising from inhomogeneity of the CRM.

Performance gates have been calculated for one, two and three standard deviations of the accepted pool of certification data and are presented in Table 3. As a guide these intervals may be regarded as informational (1σ), warning or rejection for multiple outliers (2σ), or rejection for individual outliers (3σ) in QC monitoring although their precise application should be at the discretion of the QC manager concerned.

Table 3. Proposed performance gates for OREAS 14P

Constituent	Recommended Value	Performance Gates					
		1 σ		2 σ		3 σ	
		Low	High	Low	High	Low	High
Aluminium, Al (wt. %)	2.26	2.12	2.40	1.97	2.55	1.83	2.69
Arsenic, As (ppm)	<5	IND	IND	IND	IND	IND	IND
Barium, Ba (ppm)	343	304	382	265	421	226	460
Calcium, Ca (wt. %)	0.99	0.92	1.06	0.86	1.12	0.79	1.19
Chromium, Cr (ppm)*	52	47	57	43	61	38	66
Chromium, Cr (ppm)**	45	43	47	40	50	38	52
Cobalt, Co (ppm)	754	735	773	716	792	697	811
Copper, Cu (ppm)	0.997	0.97	1.02	0.94	1.05	0.92	1.08
Gold, Au (ppb)	51	45	57	39	63	33	69
Iridium, Ir (ppb)	46	43	49	40	52	38	54
Iron, Fe (wt. %)	37.1	35.5	38.7	34.0	40.2	32.4	41.8
Lead, Pb (ppm)	<20	IND	IND	IND	IND	IND	IND
Magnesium, Mg (wt. %)	0.28	0.25	0.31	0.22	0.34	0.19	0.37
Manganese, Mn (ppm)	595	564	626	533	657	502	688
Nickel, Ni (ppm)	2.09	2.02	2.16	1.94	2.24	1.87	2.31
Osmium, Os (ppb)	70	53	87	36	104	19	121
Palladium, Pd (ppb)	150	142	158	134	166	125	175
Phosphorus, P (ppm)	550	550	550	550	550	550	550
Platinum, Pt (ppb)	99	91	107	83	115	75	123
Potassium, K (wt. %)	0.87	0.82	0.92	0.78	0.96	0.73	1.01
Rhodium, Rh (ppb)	60	54	66	47	73	41	79
Ruthenium, Ru (ppb)	108	101	115	94	122	87	129
Scandium, Sc (ppm)	5.5	4.41	6.59	3.32	7.68	2.23	8.77
Sodium, Na (wt. %)	0.58	0.54	0.62	0.49	0.67	0.45	0.71
Strontium, Sr (ppm)	87	82	92	76	98	71	103
Sulphur, S (wt. %): ICP	22.8	22.0	23.6	21.1	24.5	20.3	25.3
Sulphur, S (wt. %): Leco	23.8	23.4	24.2	23.0	24.6	22.5	25.1
Titanium, Ti (ppm)	2473	2365	2581	2258	2688	2150	2796
Vanadium, V (ppm)	67	64	70	62	72	59	75
Zinc, Zn (ppm)	81	75	87	69	93	62	100
Zirconium, Zr (ppm)*	189	183	195	177	201	170	208
Zirconium, Zr (ppm)**	44	25	63	6	82	IND	IND

*Analysis by fusion; **analysis by 4-acid digest; IND – indeterminate

PARTICIPATING LABORATORIES

Anglo Analytical Research Laboratories, Johannesburg, South Africa
 Acme Analytical Laboratories, Vancouver, BC, Canada
 Activation Laboratories, Ancaster, ON, Canada
 Actlabs Pacific, Redcliffe, WA, Australia
 ALS Chemex, Stafford, QLD, Australia
 ALS Chemex, Vancouver, BC, Canada
 Amdel Laboratories, Thebarton, SA, Australia
 Becquerel Laboratories, Lucas Heights, NSW, Australia
 Genalysis Laboratory Services, Maddington, WA, Australia
 Geolaboratory, Geological Survey of Finland, Espoo, Finland
 OMAC Laboratories, Loughrea, Co. Galway, Ireland
 SGS Lakefield, Lakefield, ON, Canada
 Falconbridge Ltd. (Sudbury Div.), Falconbridge, ON, Canada
 Ultra Trace Laboratories, Canning Vale, WA, Australia
 XRAL Laboratories, Toronto, ON, Canada

PREPARER AND SUPPLIER OF THE REFERENCE MATERIAL

The magmatic massive sulphide ore reference material, OREAS 14P has been prepared and certified and is supplied by:

Ore Research & Exploration Pty Ltd
6-8 Gatwick Road
Bayswater North, VIC 3153
AUSTRALIA

Telephone	(03) 9729 0333	International	+613-9729 0333
Facsimile	(03) 97629 4777	International	+613-9729 4777
Email	info @ore.com.au	Web	www.ore.com.au

It is available in unit sizes of 100g laminated foil packets.

INTENDED USE

OREAS 14P is a reference material intended for the following:

- i) for the calibration of instruments used in the determination of the concentration of Ni, Cu, Pt, Pd and Au;
- ii) for the verification of analytical methods for Ni, Cu, Pt, Pd and Au;
- iii) for the preparation of secondary reference materials of similar composition;
- iv) as an arbitration sample for commercial transactions.

STABILITY AND STORAGE INSTRUCTIONS

OREAS 14P has been prepared from a magmatic massive sulphide sample and has been packaged under nitrogen in laminated foil pouches. The packaging film is an effective barrier to oxygen and moisture and the sealed CRM is considered to have long-term stability under normal storage conditions. Once opened the contents should be stored in a desiccator purged with nitrogen to inhibit oxidation.

INSTRUCTIONS FOR THE CORRECT USE OF THE REFERENCE MATERIAL

The recommended values for OREAS 14P refers to the concentration level of the certified element values in the packaged state at hygroscopic equilibrium. An equilibrium hygroscopic moisture content of 1.15% has been established for this material. If the reference material is dried by the user prior to analysis, the drying temperature should not exceed 65⁰C and the recommended values should be corrected to the moisture-free basis.

LEGAL NOTICE

Ore Research & Exploration Pty Ltd has prepared and statistically evaluated the property values of this reference material to the best of its ability. The Purchaser by receipt hereof

releases and indemnifies Ore Research & Exploration Pty Ltd from and against all liability and costs arising from the use of this material and information.

CERTIFYING OFFICER: Dr Paul Hamlyn

ACKNOWLEDGMENTS

The generosity of WMC Resources in providing the source material used to prepare OREAS 14P is gratefully acknowledged.

REFERENCES

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APPENDIX

Analytical Results for OREAS 14P

Table A1. Explanation of abbreviations used in Tables 2 – 30.

Abbreviation	Explanation
Std.Dev.	one sigma standard deviation
Rel.Std.Dev.	percent deviation of lab mean from corrected mean of means
PDM ³	percent deviation of lab mean from corrected mean of means
-	outlying values shown in bold
AF	alkali fusion
BF	borate fusion
4AD	four acid (HF-HNO ₃ -HClO ₄ -HCl) digestion
MAR	modified aqua regia digest
AR	aqua regia digest
FA	lead fire assay
NiS	nickel sulphide fire assay
INAA	instrumental neutron activation analysis
OES	inductively coupled plasma optical emission spectrometry
MS	inductively coupled plasma mass spectrometry
AAS	atomic absorption spectrometry
HGAAS	hydride generation atomic absorption spectrometry
Leco	Leco infrared furnace

Table A2. Analytical results for aluminium in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in weight percent).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C1 4AD*OES	Lab C2 BF*OES	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G AF*OES
1	2.35	2.35	2.16	2.28	2.37	2.46	1.82	2.32
2	2.38	2.38	2.13	2.20	2.42	2.53	1.99	2.32
3	2.39	2.33	2.01	2.21	2.39	2.44	2.05	2.35
4	2.37	2.33	2.04	2.18	2.37	2.44	1.99	2.26
5	2.40	2.44	1.97	2.20	2.32	2.47	2.03	2.39
Mean	2.38	2.37	2.06	2.21	2.37	2.47	1.98	2.33
Median	2.38	2.35	2.04	2.20	2.37	2.46	1.99	2.32
Std.Dev.	0.02	0.05	0.08	0.04	0.04	0.04	0.09	0.05
Rel.Std.Dev.	0.81%	1.95%	3.90%	1.64%	1.54%	1.45%	4.60%	2.05%
PDM ³	5.52%	4.99%	-8.50%	-1.76%	5.34%	9.56%	-12.32%	3.30%

Table A2. continued

Sample No.	Lab H AF*OES	Lab I 4AD*OES	Lab J 4AD*OES
1	2.36	1.87	2.28
2	2.38	1.90	2.28
3	2.36	1.80	2.28
4	2.35	1.88	2.28
5	2.40	1.87	
Mean	2.37	1.86	2.28
Median	2.36	1.87	2.28
Std.Dev.	0.02	0.04	0.00
Rel.Std.Dev.	0.87%	2.03%	0.00%
PDM ³	5.15%	-17.3%	5.15%

Table A3. Analytical results for arsenic in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppm).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C 4AD*MS	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G AF*HGAAS	Lab H 4AD*OES
1	<5	5	4	<5	2.57	<5	<0.5	<3
2	<5	<5	4	<5	2.47	<5	<0.5	4.7
3	5	5	5	<5	3.14	<5	<0.5	<3
4	<5	5	4	<5	3.11	<5	<0.5	7.5
5	<5	<5	4	<5	2.63	<5	<0.5	<3
Mean	-	-	4	-	2.78	-	-	6.1
Median	-	-	4	-	2.63	-	-	6.1
Std.Dev.	-	-	0	-	0.32	-	-	2.0
Rel.Std.Dev.	-	-	10.65%	-	11.33%	-	-	32.90%
PDM ³	-	-	-8.87%	-	-39.59%	-	-	31.49%

Table A3. continued

Sample No.	Lab I 4AD*OES
1	<5
2	<5
3	<5
4	<5
5	<5
Mean	-
Median	-
Std.Dev.	-
Rel.Std.Dev.	-
PDM ³	-

Table A4. Analytical results for barium in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppm).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C1 4AD*MS	Lab C2 BF*OES	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G BF*OES
1	341	338	14	316	35	366	60	371
2	344	334	16	306	32	372	120	358
3	342	338	15	308	29	366	150	345
4	340	334	15	304	40	359	120	337
5	345	338	18	310	33	359	130	346
Mean	342	336	16	309	34	364	116	351
Median	342	338	15	308	33	366	120	346
Std.Dev.	2	2	2	5	4	5	34	13
Rel.Std.Dev.	0.61%	0.65%	9.72%	1.49%	12.1%	1.50%	29.0%	3.78%
PDM ³	-0.20%	-1.95%	-95.5%	-10.00%	-90.1%	6.2%	-66.2%	2.42%

Table A4. continued

Sample No.	Lab H AF*ICP	Lab I 4AD*OES
1	358	211
2	363	246
3	358	244
4	352	239
5	354	229
Mean	357	234
Median	358	239
Std.Dev.	4	14
Rel.Std.Dev.	1.19%	6.13%
PDM ³	4.05%	-31.9%

Table A5. Analytical results for calcium in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in weight percent).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C1 4AD*MS	Lab C2 BF*OES	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G AF*OES
1	0.99	1.05	0.98	0.96	1.01	1.16	0.90	1.03
2	1.01	1.06	0.93	0.93	1.03	1.11	0.88	1.01
3	1.01	1.04	0.91	0.94	1.02	1.10	0.89	0.99
4	1.00	1.04	0.92	0.92	1.01	1.06	0.88	0.98
5	1.01	1.09	0.94	0.93	0.99	1.06	0.87	1.00
Mean	1.00	1.06	0.94	0.93	1.01	1.10	0.88	1.00
Median	1.01	1.05	0.93	0.93	1.01	1.10	0.88	1.00
Std.Dev.	0.01	0.02	0.03	0.01	0.01	0.04	0.01	0.02
Rel.Std.Dev.	0.89%	1.96%	2.89%	1.47%	1.47%	3.96%	1.29%	1.92%
PDM ³	2.14%	7.43%	-4.78%	-4.89%	2.95%	11.61%	-10.07%	1.94%

Table A5. continued

Sample No.	Lab H AF*OES	Lab I 4AD*OES	Lab J 4AD*OES
1	1.014	0.91	1.02
2	1.032	0.91	1.01
3	1.021	0.87	1.01
4	1.004	0.91	1.01
5	1.045	0.90	
Mean	1.02	0.90	1.01
Median	1.02	0.91	1.01
Std.Dev.	0.02	0.02	0.01
Rel.Std.Dev			
	1.55%	1.92%	0.49%
PDM ³	4.09%	-8.44%	2.72%

Table A6. Analytical results for chromium in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppm).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C 4AD*MS	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G AF*OES	Lab H AF*OES
1	44	50	48	46	50	43	54	49
2	40	50	46	45	45	43	57	51
3	44	45	44	43	47	44	51	46
4	44	45	44	47	47	43	52	51
5	44	45	43	44	47	45	56	48
Mean	43	47	45	45	47	44	54	49
Median	44	45	44	45	47	43	54	49
Std.Dev.	2	3	2	2	2	1	3	2
Rel.Std.Dev.	4.14%	5.83%	4.19%	3.51%	3.95%	2.05%	4.72%	4.36%
PDM ³	-8.14%	-0.06%	-4.39%	-4.31%	0.25%	-7.29%	14.8%	4.75%

Table A6. continued

Sample No.	Lab I 4AD*OES	Lab K INAA
1	45	56
2	41	59
3	40	60
4	42	44
5	42	49
6		54
7		53
8		54
9		51
10		49
11		56
12		48
13		60
14		56
15		61
16		43
17		55
18		52
19		51
20		59
Mean	42	53
Median	42	54
Std.Dev.	2	5
Rel.Std.Dev.	4.45%	9.53%
PDM ³	-10.7%	13.7%

Table A7. Analytical results for cobalt in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppm).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C 4AD*MS	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G AF*OES	Lab H MAR*OES
1	728	772	773	780	671	770	714	736
2	733	766	773	784	668	754	739	734
3	732	766	723	776	659	766	724	733
4	734	766	778	767	644	759	712	725
5	736	752	725	776	663	751	737	726
Mean	733	764	754	777	661	760	725	731
Median	733	766	773	776	663	759	724	733
Std.Dev.	3	7	28	6	10	8	13	5
Rel.Std.Dev.	0.40%	0.97%	3.69%	0.81%	1.58%	1.05%	1.73%	0.68%
PDM ³	-2.42%	1.82%	0.49%	3.44%	-12.0%	1.23%	-3.40%	-2.66%

Table A7. continued

Sample No.	Lab I 4AD*OES	Lab J 4AD*OES	Lab K INAA
1	601	780	759.1
2	608	780	769.5
3	581	780	763.3
4	603	770	759.2
5	600		755.8
6			751.4
7			742.9
8			734.7
9			760.4
10			753.8
11			764.0
12			758.1
13			771.2
14			768.5
15			762.5
16			755.6
17			766.3
18			772.0
19			765.0
20			755.6
Mean	599	778	759.4
Median	601	780	759.8
Std.Dev.	10	5	9.3
Rel.Std.Dev.	1.72%	0.64%	1.22%
PDM ³	-20.3%	3.16%	1.16%

Table A8. Analytical results for copper in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in weight percent).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C 4AD*OES	Lab D 4AD*AAS	Lab E 4AD*OES	Lab F1 4AD*OES	Lab F2 4AD*AAS	Lab G AR*OES
1	0.990	1.01	1.005	1.003	0.901	0.967	0.96	1.00
2	1.007	1.02	1.012	1.003	0.909	0.947	0.95	0.97
3	1.013	1.00	1.011	1.007	0.908	0.956	0.97	0.98
4	0.999	1.00	1.012	1.005	0.908	0.949	0.95	0.97
5	1.014	1.05	1.000	1.001	0.902	0.942	0.93	1.00
Mean	1.005	1.016	1.008	1.004	0.906	0.952	0.952	0.984
Median	1.007	1.010	1.011	1.003	0.908	0.949	0.950	0.980
Std.Dev.	0.010	0.021	0.005	0.002	0.004	0.010	0.015	0.015
Rel.Std.Dev.	1.01%	2.04%	0.53%	0.23%	0.42%	1.02%	1.56%	1.54%
PDM ³	0.72%	1.86%	-5.26%	0.63%	-9.22%	-4.54%	-4.56%	-1.35%

Table A8. continued

Sample No.	Lab H MAR*OES	Lab I AR*AAS	Lab J 4AD*OES	Lab L 4AD*OES	Lab M AR*OES
1	1.020	1.02	1.00	1.03	0.988
2	1.018	1.01	0.99	1.03	0.994
3	1.027	1.04	1.00		0.990
4	1.030	1.04	0.99		
5	1.025	1.02			
Mean	1.024	1.026	0.995	1.030	0.991
Median	1.025	1.020	0.995	1.030	0.990
Std.Dev.	0.005	0.013	0.006	0.000	0.003
Rel.Std.Dev.	0.48%	1.31%	0.58%	0.00%	0.31%
PDM ³	2.66%	2.86%	-0.23%	3.26%	-0.68%

Table A9. Analytical results for gold in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppb).

Sample No.	Lab A1 FA*MS (50g)	Lab A2 NiS*MS (50g)	Lab B1 FA*MS (40g)	Lab B2 NiS*MS (40g)	Lab C1 FA*MS (50g)	Lab C2 FA*MS (50g)	Lab D FA*MS (50g)	Lab F1 FA*MS (50g)
1	75	36	51	14	49	49	49	53
2	68	38	47	19	51	50	49	50
3	69		55	35	49		50	51
4	74		44		52		50	53
5	67		51		49		50	53
Mean	70.6	37.0	49.5	17.0	50.0	49.5	49.6	52.0
Median	69.0	37.0	50.5	19.0	49.0	49.5	50.0	53.0
Std.Dev.	3.6	1.4	4.1	11.0	1.4	0.7	0.5	1.4
Rel.Std.Dev.	5.17%	3.82%	8.31%	64.5%	2.83%	1.43%	1.10%	2.72%
PDM ³	38.9%	-27.2%	-2.58%	-66.6%	-1.63%	-2.61%	-2.42%	2.31%

Table A9. continued

Sample No.	Lab F2 FA*MS (50g)	Lab G1 FA*AAS (50g)	Lab G2 FA*MS (50g)	Lab H FA*MS (50g)	Lab I FA*MS (50g)	Lab K INAA (0.5g)
1	54	53	52	55.0	63	55.2
2	50	53	55	53.4	68	39.5
3		50		51.1	60	49.6
4		47		59.0	62	47.9
5		50		54.0	111	49.7
6						57.5
7						49.4
8						56.3
9						45.4
10						30.9
11						50.5
12						66.2
13						33.1
14						48.9
15						41.1
16						52.8
17						36.1
18						51.6
19						40.4
20						61.7
Mean	52.0	50.6	53.5	54.5	72.8	48.2
Median	52.0	50.0	53.5	54.0	63.0	49.5
Std.Dev.	2.8	2.5	2.1	2.9	21.6	9.2
Rel.Std.Dev.	5.44%	4.96%	3.97%	5.31%	29.6%	19.2%
PDM ³	2.31%	-0.45%	5.26%	7.22%	43.2%	-5.19%

Table A10. Analytical results for iridium via NiS*MS in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppb).

Sample No.	Lab A NiS*MS	Lab B NiS*MS	Lab E NiS*MS	Lab F NiS*MS	Lab G NiS*MS	Lab L NiS*MS	Lab M NiS*MS
1	48	45	45	46	45.4	40	49.0
2	48	48	42	45	22.2	40	50.9
3		52					44.8
Mean	48.0	48.3	43.5	45.5	33.8	40.0	48.2
Median	48.0	48.0	43.5	45.5	33.8	40.0	49.0
Std.Dev.	0.0	3.5	2.1	0.7	16.4	0.0	3.1
Rel.Std.Dev.	0.00%	7.27%	4.88%	1.55%	48.5%	0.00%	6.47%
PDM ³	1.07%	1.77%	-6.44%	-2.14%	-28.8%	-15.8%	1.56%

Table A11. Analytical results for iron in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in weight percent).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C1 4AD*MS	Lab C2 BF*OES	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G AF*OES
1	36.90	39.3	37.63	38.27	36.45	37.3	>25.00	37.1
2	37.92	39.9	35.96	39.01	36.79	37.8	>25.00	37.2
3	36.41	39.2	34.60	38.63	36.27	37.5	>25.00	37.2
4	37.73	39.1	35.21	39.03	36.43	36.7	>25.00	37.4
5	38.04	39.3	34.61	38.85	36.30	36.2	>25.00	37.3
Mean	37.40	39.36	35.60	38.76	36.45	37.09	-	37.24
Median	37.73	39.30	35.21	38.85	36.43	37.25	-	37.20
Std.Dev.	0.71	0.31	1.26	0.32	0.21	0.64	-	0.11
Rel.Std.Dev.	1.90%	0.80%	3.55%	0.82%	0.57%	1.73%	-	0.31%
PDM ³	0.42%	5.68%	-4.41%	4.07%	-2.13%	-0.42%	-	-0.01%

Table A11. continued

Sample No.	Lab H AF*OES	Lab I 4AD*OES	Lab J 4AD*OES	Lab K INAA
1	36.38	35.36	35.6	39.43
2	36.15	35.78	35.8	39.75
3	36.24	33.86	35.6	39.55
4	36.35	35.41	35.6	39.33
5	36.22	35.11		39.25
6				38.88
7				38.61
8				38.13
9				38.87
10				39.12
11				39.07
12				39.22
13				39.34
14				39.47
15				39.28
16				39.04
17				39.41
18				39.71
19				39.09
20				39.30
Mean	36.27	35.10	35.65	39.19
Median	36.24	35.36	35.60	39.27
Std.Dev.	0.10	0.74	0.10	0.38
Rel.Std.Dev.	0.26%	2.10%	0.28%	0.96%
PDM ³	-2.62%	-5.74%	-3.90%	5.23%

Table A12. Analytical results for lead in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppm).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C 4AD*MS	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G 4AD*OES	Lab H 4AD*OES
1	<5	<5	16.8	13	18.3	<2	<20	11.4
2	<5	<5	16.8	11	18.5	<2	<20	11.1
3	<5	<5	16.5	15	18.9	<2	<20	10.1
4	<5	<5	16.4	11	18.1	<2	<20	14.6
5	<5	5	15.8	13	18.8	<2	<20	11.0
Mean	-	-	16.5	12.6	18.5	-	-	11.6
Median	-	-	16.5	13.0	18.5	-	-	11.1
Std.Dev.	-	-	0.4	1.7	0.3	-	-	1.7
Rel.Std.Dev.	-	-	2.49%	13.3%	1.80%	-	-	14.8%
PDM ³	-	-	16.1%	-11.1%	31%	-	-	-17.9%

Table A12. continued

Sample No.	Lab I 4AD*OES
1	13
2	12
3	11
4	14
5	12
Mean	12.4
Median	12.0
Std.Dev.	1.1
Rel.Std.Dev.	9.19%
PDM ³	-12.5%

Table A13. Analytical results for magnesium in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in weight percent).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C1 4AD*MS	Lab C2 BF*OES	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G AF*OES
1	0.32	0.30	0.25	0.25	0.30	0.287	0.24	0.30
2	0.32	0.30	0.24	0.25	0.30	0.304	0.24	0.30
3	0.32	0.30	0.22	0.25	0.30	0.300	0.25	0.28
4	0.32	0.30	0.24	0.24	0.30	0.289	0.24	0.28
5	0.31	0.31	0.22	0.24	0.29	0.299	0.25	0.30
Mean	0.318	0.302	0.234	0.245	0.298	0.296	0.244	0.292
Median	0.320	0.300	0.240	0.247	0.300	0.299	0.240	0.300
Std.Dev.	0.004	0.004	0.013	0.007	0.004	0.008	0.005	0.011
Rel.Std.Dev.	1.41%	1.48%	5.73%	2.81%	1.50%	2.54%	2.24%	3.75%
PDM ³	14.8%	9.05%	-15.5%	-11.6%	7.61%	6.79%	-11.9%	5.44%

Table A13. continued

Sample No.	Lab H AF*OES	Lab I 4AD*OES	Lab J 4AD*OES
1	0.285	0.26	0.29
2	0.287	0.26	0.29
3	0.283	0.25	0.29
4	0.284	0.26	0.30
5	0.302	0.25	
Mean	0.288	0.256	0.293
Median	0.285	0.260	0.290
Std.Dev.	0.008	0.005	0.005
Rel.Std.Dev.	2.73%	2.14%	1.71%
PDM ³	4.07%	-7.56%	5.08%

Table A14. Analytical results for manganese in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppm).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C 4AD*MS	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G 4AD*OES	Lab H AF*OES
1	568	605	625	608	589	550	639	610
2	578	615	613	605	568	535	663	610
3	579	605	588	606	574	545	625	610
4	575	620	610	605	566	540	607	610
5	581	628	580	594	563	535	645	620
Mean	576	615	603	604	572	541	636	612
Median	578	615	610	605	568	540	639	610
Std.Dev.	5	10	19	6	10	7	21	4
Rel.Std.Dev.	0.88%	1.61%	3.09%	0.91%	1.79%	1.21%	3.32%	0.73%
PDM ³	-3.09%	3.37%	1.45%	1.52%	-3.79%	-9.01%	6.93%	2.93%

Table A14. continued

Sample No.	Lab I 4AD*OES
1	496
2	500
3	480
4	498
5	494
Mean	494
Median	496
Std.Dev.	8
Rel.Std.Dev.	1.61%
PDM ³	-16.98%

Table A15. Analytical results for nickel in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in weight percent).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C1 4AD*MS	Lab C2 BF*OES	Lab D 4AD*AAS	Lab E 4AD*OES	Lab F 4AD*AAS	Lab G AR*OES
1	2.13	2.14	2.04	2.11	2.08	1.91	2.08	2.20
2	2.16	2.21	2.09	2.11	2.08	1.93	1.97	2.12
3	2.17	2.18	2.03	2.11	2.08	1.91	1.98	2.14
4	2.15	2.19	2.01	2.10	2.07	1.91	1.95	2.14
5	2.18	2.22	2.05	2.09	2.08	1.90	1.95	2.18
Mean	2.16	2.19	2.04	2.10	2.08	1.91	1.98	2.16
Median	2.16	2.19	2.04	2.11	2.08	1.91	1.97	2.14
Std.Dev.	0.02	0.03	0.03	0.01	0.00	0.01	0.06	0.03
Rel.Std.Dev.	0.84%	1.42%	1.45%	0.42%	0.20%	0.63%	2.79%	1.52%
PDM ³	2.99%	4.37%	-2.48%	0.38%	-0.83%	-8.75%	-5.36%	2.84%

Table A15. continued

Sample No.	Lab H MAR*OES	Lab I 4AD*AAS	Lab J 4AD*OES	Lab L 4AD*OES	Lab M AR*OES
1	2.12	1.98	2.06	2.17	2.10
2	2.13	1.98	2.06	2.16	2.09
3	2.15	1.96	2.06		2.11
4	2.13	1.98	2.06		
5	2.11	1.99			
Mean	2.13	1.98	2.06	2.17	2.10
Median	2.13	1.98	2.06	2.17	2.10
Std.Dev.	0.02	0.01	0.00	0.01	0.01
Rel.Std.Dev.	0.76%	0.55%	0.00%	0.33%	0.48%
PDM ³	1.43%	-5.65%	-1.59%	3.27%	0.17%

Table A16. Analytical results for osmium in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppb).

Sample No.	Lab A NiS*MS	Lab B NiS*MS	Lab C NiS*MS	Lab E NiS*MS	Lab F NiS*MS	Lab G NiS*MS
1	84	59	74	49.0	80	18
2	81	52	67	46.0	72	16
3		58				
Mean	82.5	56.3	70.5	47.5	76.0	17.0
Median	82.5	58.0	70.5	47.5	76.0	17.0
Std.Dev.	2.1	3.8	4.9	2.1	5.7	1.4
Rel.Std.Dev.	2.57%	6.72%	7.02%	4.47%	7.44%	8.32%
PDM ³	11.16%	-24.10%	-5.01%	-32.20%	8.48%	-77.09%

Table A17. Analytical results for palladium in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppb).

Sample No.	Lab A1 FA*MS	Lab A2 NiS*MS	Lab B1 FA*MS	Lab B2 NiS*MS	Lab C1 FA*MS	Lab C2 FA*MS
1	146	154	130	135	149.1	147.3
2	151	153	128	144	159.2	144.2
3	148		150	151	153.7	
4	156		122		162.3	
5	154		141		154.1	
Mean	151	154	134	143	156	146
Median	151	154	130	144	154	146
Std.Dev.	4	1	11	8	5	2
Rel.Std.Dev.	2.73%	0.46%	8.29%	5.60%	3.31%	1.50%
PDM ³	1.48%	3.16%	-9.73%	-3.67%	4.62%	-2.05%

Table A17. continued

Sample No.	Lab D FA*MS	Lab F1 FA*MS	Lab F2 FA*MS	Lab F3 NiS*MS	Lab G1 FA*AAS	Lab G2 NiS*MS	Lab G3 FA*AAS	Lab H FA*AAS
1	146	150	155	152	141	128	145	134
2	147	155	150	151	147	70	147	134
3	150	150			137			128
4	147	155			139			137
5	144	155			131			128
Mean	147	153	153	152	139	99	146	132
Median	147	155	153	152	139	99	146	134
Std.Dev.	2	3	4	1	6	41	1	4
Rel.Std.Dev.	1.48%	1.79%	2.32%	0.47%	4.19%	41.4%	0.97%	3.04%
PDM ³	-1.34%	2.82%	2.49%	1.02%	-6.59%	-33.5%	-2.64%	-11.2%

Table A17. continued

Sample No.	Lab I FA*MS	Lab L NiS*MS	Lab M FA*OES	Lab N1 FA*MS	Lab N2 NiS*MS	Lab O FA*MS
1	142	160	148	151	185	159
2	159	160	157	153	175	107
3	143		146			
4	147					
5	155					
Mean	149	160	150	152	180	133
Median	147	160	148	152	180	133
Std.Dev.	7	0	6	1	7	37
Rel.Std.Dev.	5.02%	0.00%	3.90%	0.68%	3.93%	27.7%
PDM ³	0.27%	7.53%	1.03%	1.28%	20.0%	-11.3%

Table A18. Analytical results for phosphorous in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppm).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C1 4AD*MS	Lab C2 BF*OES	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G 4AD*OES
1	0.06	0.056	0.055	0.052	0.061	0.049	0.061	0.05
2	0.06	0.054	0.054	0.052	0.063	0.050	0.059	0.05
3	0.06	0.052	0.050	0.074	0.062	0.048	0.059	0.05
4	0.06	0.056	0.050	0.052	0.062	0.055	0.060	0.05
5	0.06	0.060	0.050	0.052	0.057	0.048	0.059	0.04
Mean	0.060	0.056	0.052	0.057	0.061	0.050	0.060	0.048
Median	0.060	0.056	0.050	0.052	0.062	0.049	0.059	0.050
Std.Dev.	0.000	0.003	0.002	0.010	0.002	0.003	0.001	0.004
Rel.Std.Dev.	0.00%	5.34%	4.81%	17.20%	3.84%	5.85%	1.50%	9.32%
PDM ³	9.77%	1.72%	-5.23%	3.81%	11.60%	-8.45%	9.04%	-12.18%

Table A18. continued

Sample No.	Lab H AF*OES	Lab I 4AD*OES
1	0.059	0.051
2	0.044	0.052
3	0.064	0.050
4	0.053	0.051
5	0.067	0.051
Mean	0.057	0.051
Median	0.059	0.051
Std.Dev.	0.009	0.001
Rel.Std.Dev.	16.00%	1.42%
PDM ³	5.01%	-6.66%

Table A19. Analytical results for platinum in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppb).

Sample No.	Lab A1 FA*MS	Lab A2 NiS*MS	Lab B1 FA*MS	Lab B2 NiS*MS	Lab C1 FA*MS	Lab C2 FA*MS	Lab D FA*MS
1	98	96	90	87	97.1	100.1	102
2	98	92	90	94	101.4	96.9	102
3	101		97	97	98.0		104
4	96		85		101.1		103
5	101		97		100.7		101
Mean	98.8	94.0	91.8	92.7	99.7	98.5	102.4
Median	98.0	94.0	90.3	94.0	100.7	98.5	102.0
Std.Dev.	2.2	2.8	5.3	5.1	2.0	2.3	1.1
Rel.Std.Dev.	2.19%	3.01%	5.73%	5.54%	1.97%	2.30%	1.11%
PDM ³	1.83%	-3.12%	-5.40%	-4.49%	2.72%	1.52%	5.54%

Table A19. continued

Sample No.	Lab F2 FA*MS	Lab F3 NiS*MS	Lab G1 FA*AAS	Lab G2 FA*MS	Lab G3 NiS*MS	Lab H FA*AAS	Lab I FA*MS	Lab L NiS*MS
1	103.5	106	101	97.4	95	93.0	95.3	90
2	99.5	102	112	100.0	48	101.0	106.6	90
3			106			93.2	96.9	
4			97			101.0	98.0	
5			98			96.3	104.4	
Mean	101.5	104.0	102.8	98.7	71.5	96.9	100.2	90.0
Median	101.5	104.0	101.0	98.7	71.5	96.3	98.0	90.0
Std.Dev.	2.8	2.8	6.2	1.8	33.2	4.0	5.0	0.0
Rel.Std.Dev.	2.79%	2.72%	6.05%	1.86%	46.5%	4.09%	4.95%	0.00%
PDM ³	4.61%	5.48%	5.95%	1.73%	-26.3%	-0.13%	3.31%	-7.24%

Table A19. continued

Sample No.	Lab M NiS*MS	Lab N1 FA*MS	Lab N2 NiS*MS	Lab O FA*MS
1	92.8	103	138	143
2	100.0	109	155	78
3	86.0			
4				
5				
Mean	92.9	106.4	146.5	110.5
Median	92.8	106.4	146.5	110.5
Std.Dev.	7.0	4.2	12.0	46.0
Rel.Std.Dev.	7.53%	3.97%	8.21%	41.6%
PDM ³	-4.22%	7.90%	48.6%	12.1%

Table A20. Analytical results for potassium in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in weight percent).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C1 4AD*MS	Lab C2 BF*OES	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G AF*OES
1	0.90	0.903	0.88	0.80	0.88	0.698	0.83	0.87
2	0.91	0.933	0.86	0.84	0.90	0.712	0.82	0.92
3	0.92	0.918	0.81	0.82	0.89	0.718	0.83	0.92
4	0.90	0.918	0.82	0.79	0.88	0.700	0.82	0.95
5	0.92	0.929	0.81	0.80	0.86	0.727	0.82	0.91
Mean	0.910	0.920	0.836	0.812	0.882	0.711	0.824	0.914
Median	0.910	0.918	0.820	0.805	0.880	0.712	0.820	0.920
Std.Dev.	0.010	0.012	0.032	0.019	0.015	0.012	0.005	0.029
Rel.Std.Dev.	1.10%	1.27%	3.84%	2.33%	1.68%	1.72%	0.66%	3.15%
PDM ³	4.58%	5.75%	-3.92%	-6.73%	1.36%	-18.3%	-5.30%	5.04%

Table A20. continued

Sample No.	Lab H AF*OES	Lab I 4AD*OES	Lab J 4AD*OES
1	0.90	0.82	0.92
2	0.90	0.83	0.91
3	0.90	0.78	0.93
4	0.90	0.82	0.90
5	0.90	0.82	-
Mean	0.900	0.814	0.915
Median	0.900	0.820	0.915
Std.Dev.	0.000	0.019	0.013
Rel.Std.Dev.	0.00%	2.39%	1.41%
PDM ³	3.43%	-6.45%	4.62%

Table A21. Analytical results for rhodium in West Musgrave standard OREAS 14P (abbreviations as in Table A1; outliers in bold; values in ppb).

Sample No.	Lab A NiS*MS	Lab B NiS*MS	Lab C FA*MS	Lab E NiS*MS	Lab F NiS*MS	Lab G NiS*MS	Lab L NiS*MS	Lab M NiS*MS
1	66	53	13.6	64.9	66	49	70	56.7
2	65	57	19.2	59.8	62	28	70	58.7
3		59	17.3					52.0
4			20.6					
5			19.5					
Mean	65.5	56.3	18.0	62.4	64.0	38.5	70.0	55.8
Median	65.5	57.0	19.2	62.4	64.0	38.5	70.0	56.7
Std.Dev.	0.7	3.1	2.7	3.6	2.8	14.8	0.0	3.4
Rel.Std.Dev.	1.08%	5.42%	15.2%	5.78%	4.42%	38.6%	0.00%	6.16%
PDM ³	10.4%	-5.05%	-69.6%	3.2%	5.9%	-35.1%	18.0%	-5.94%

Table A22. Analytical results for ruthenium via NiS*MS in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppb).

Sample No.	Lab A NiS*MS	Lab B NiS*MS	Lab E NiS*MS	Lab F NiS*MS	Lab G NiS*MS	Lab L NiS*MS	Lab M NiS*MS
1	114	107	120.0	114	98	100	106.0
2	113	108	105.0	115	55	100	109.0
3		116					97.1
Mean	113.5	110.3	112.5	114.5	76.5	100.0	104.0
Median	113.5	108.0	112.5	114.5	76.5	100.0	106.0
Std.Dev.	0.7	4.9	10.6	0.7	30.4	0.0	6.2
Rel.Std.Dev.	0.62%	4.47%	9.43%	0.62%	39.7%	0.00%	5.95%
PDM ³	7.92%	4.91%	4.60%	6.46%	-27.3%	-4.92%	-1.08%

Table A23. Analytical results for scandium in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppm).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C 4AD*MS	Lab D 4AD*OES	Lab E 4AD*OES	Lab G AF*OES	Lab H AF*OES	Lab I 4AD*MS
1	5	6.2	4	7	6.12	<5	<5	4
2	5	6.2	4	7	5.92	6	<5	4
3	5	6.2	4	7	5.47	5	<5	4
4	5	6.2	4	7	5.60	6	<5	4
5	5	6.4	4	7	5.44	<5	<5	4
Mean	5.0	6.2	4.0	7.0	5.7	5.7	-	4.0
Median	5.0	6.2	4.0	7.0	5.6	6.0	-	4.0
Std.Dev.	0.0	0.1	0.0	0.0	0.3	0.6	-	0.0
Rel.Std.Dev.	0.00%	1.43%	0.00%	0.00%	5.26%	10.2%	-	0.00%
PDM ³	-9.75%	12.6%	-27.8%	26.4%	3.03%	2.28%	-	-27.8%

Table A23. continued

Sample No.	Lab K INAA
1	6.71
2	6.40
3	6.62
4	6.45
5	6.85
6	6.93
7	6.94
8	6.68
9	6.72
10	6.84
11	6.70
12	6.92
13	6.31
14	6.64
15	6.74
16	6.77
17	6.60
18	6.95
19	6.61
20	6.75
Mean	6.7
Median	6.7
Std.Dev.	0.2
Rel.Std.Dev.	2.66%
PDM ³	21.1%

Table A24. Analytical results for sodium in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in weight percent).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C1 4AD*MS	Lab C2 BF*OES	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G 4AD*OES
1	0.57	0.65	0.562	0.53	0.61	0.547	0.57	0.60
2	0.58	0.65	0.550	0.50	0.62	0.565	0.55	0.63
3	0.59	0.64	0.521	0.52	0.61	0.565	0.56	0.61
4	0.58	0.64	0.544	0.51	0.60	0.553	0.55	0.60
5	0.59	0.67	0.521	0.52	0.59	0.574	0.55	0.62
Mean	0.582	0.650	0.540	0.516	0.606	0.561	0.556	0.612
Median	0.580	0.650	0.544	0.519	0.610	0.565	0.550	0.610
Std.Dev.	0.008	0.012	0.018	0.008	0.011	0.011	0.009	0.013
Rel.Std.Dev.	1.44%	1.88%	3.37%	1.64%	1.88%	1.88%	1.61%	2.13%
PDM ³	0.92%	12.7%	-6.43%	-10.5%	5.08%	-2.76%	-3.59%	6.12%

Table A24. continued

Sample No.	Lab H AF*OES	Lab I 4AD*OES	Lab J 4AD*OES	Lab K INAA
1	0.61	0.50	0.63	0.618
2	0.61	0.51	0.63	0.603
3	0.61	0.48	0.63	0.599
4	0.61	0.50	0.64	0.611
5	0.62	0.50		0.606
6				0.614
7				0.604
8				0.622
9				0.617
10				0.611
11				0.620
12				0.617
13				0.595
14				0.616
15				0.598
16				0.614
17				0.611
18				0.624
19				0.601
20				0.621
Mean	0.612	0.498	0.633	0.611
Median	0.610	0.500	0.630	0.613
Std.Dev.	0.004	0.011	0.005	0.009
Rel.Std.Dev.	0.73%	2.20%	0.79%	1.43%
PDM ³	6.12%	-13.6%	8.80%	5.96%

Table A25. Analytical results for strontium in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppm).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C1 4AD*MS	Lab C2 BF*MS	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G BF*MS
1	84	91	81	80.8	89	91.2	93	94.6
2	86	91	80	82.7	89	92.5	92	93.3
3	86	90	74	85.1	89	90.1	94	93.6
4	85	89	78	78.3	88	86.6	91	90.8
5	86	90	76	81.3	86	89.6	91	98.5
Mean	85.4	90.1	77.8	81.6	88.2	90.0	92.2	94.2
Median	86.0	90.0	78.0	81.3	89.0	90.1	92.0	93.6
Std.Dev.	0.9	0.7	2.9	2.5	1.3	2.2	1.3	2.8
Rel.Std.Dev.	1.05%	0.82%	3.68%	3.07%	1.48%	2.45%	1.41%	2.97%
PDM ³	-1.49%	3.93%	-10.3%	-5.83%	1.73%	3.80%	6.35%	8.61%

Table A25. continued

Sample No.	Lab H AF*OES	Lab I 4AD*OES
1	81.8	72
2	81.6	74
3	82.2	70
4	81.7	73
5	82.0	73
Mean	81.9	72.4
Median	81.8	73.0
Std.Dev.	0.2	1.5
Rel.Std.Dev.	0.29%	2.09%
PDM ³	-5.58%	-16.5%

Table A26A. Analytical results for acid digest sulphur in West Musgrave standard OREAS 14P (abbreviations as in Table A1; outliers in bold; values in weight percent).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C 4AD*MS	Lab D 4AD*OES	Lab H MAR*OES	Lab I 4AD*OES	Lab J 4AD*OES
1	21.50	21.9	14.51	22.88	23.62	17.61	22.80
2	21.43	21.8	17.27	23.16	23.52	16.40	23.30
3	22.38	22.2	16.93	23.10	23.73	16.03	23.50
4	21.55	22.2	16.14	23.24	23.82	16.18	23.50
5	21.59	22.4	14.47	23.03	23.78	15.09	
Mean	21.69	22.10	15.86	23.08	23.69	16.26	23.28
Median	21.55	22.20	16.14	23.10	23.73	16.18	23.40
Std.Dev.	0.39	0.24	1.32	0.14	0.12	0.90	0.33
Rel.Std.Dev.	1.80%	1.11%	8.32%	0.59%	0.52%	5.56%	1.42%
PDM ³	-4.02%	-2.21%	-29.8%	2.14%	4.85%	-28.0%	2.24%

Table A26B. Analytical results for Leco sulphur in West Musgrave standard OREAS 14P (abbreviations as in Table A1; outliers in bold; values in weight percent).

Sample No.	Lab A Leco	Lab B Leco	Lab C Leco	Lab F Leco	Lab G Leco	Lab H Leco	Lab I Leco
1	23.9	24.3	23.70	24.1	24.1	20.99	24.46
2	24.0	23.7	23.90	23.3	23.5	21.20	24.68
3	24.1	24.4	24.10	23.7	22.7	21.99	24.79
4	24.1	23.6	24.05	24.3	23.2	21.41	24.84
5	24.1	23.4	23.90	23.9	23.1	21.34	24.84
Mean	24.04	23.88	23.93	23.86	23.32	21.39	24.72
Median	24.10	23.70	23.90	23.90	23.20	21.34	24.79
Std.Dev.	0.09	0.44	0.16	0.38	0.52	0.37	0.16
Rel.Std.Dev.	0.37%	1.86%	0.65%	1.61%	2.24%	1.75%	0.65%
PDM ³	0.98%	0.31%	0.52%	0.23%	-2.04%	-10.2%	3.85%

Table A27. Analytical results for titanium in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppm).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C1 BF*OES	Lab C2 4AD*MS	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G AF*OES
1	2456	2600	2500	2520	2647	2476	2500	2400
2	2513	2600	2400	2500	2681	2414	2500	2500
3	2517	2600	2400	2320	2649	2385	2600	2400
4	2490	2600	2400	2470	2621	2385	2500	2400
5	2540	2700	2400	2330	2564	2356	2500	2500
Mean	2503	2620	2420	2428	2632	2403	2520	2440
Median	2513	2600	2400	2470	2647	2385	2500	2400
Std.Dev.	32	45	45	96	44	46	45	55
Rel.Std.Dev.	1.27%	1.71%	1.85%	3.94%	1.66%	1.90%	1.77%	2.24%
PDM ³	1.24%	5.96%	-2.13%	-1.81%	6.46%	-2.82%	1.91%	-1.32%

Table A27. continued

Sample No.	Lab H AF*OES	Lab I 4AD*OES
1	2460	2300
2	2450	2400
3	2460	2200
4	2460	2300
5	2470	2300
Mean	2460	2300
Median	2460	2300
Std.Dev.	7	71
Rel.Std.Dev.	0.29%	3.07%
PDM ³	-0.51%	-6.98%

Table A28. Analytical results for vanadium in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppm).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C1 4AD*MS	Lab C2 BF*MS	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G 4AD*MS
1	67	72	67	65	69	115	66	69
2	65	72	67	67	68	106	64	67
3	63	70	67	68	69	109	66	67
4	67	70	66	66	69	119	64	64
5	67	72	63	68	66	119	67	69
Mean	65.8	71.2	66.0	66.8	68.2	113.5	65.4	67.2
Median	67.0	72.0	67.0	67.0	69.0	115.0	66.0	67.0
Std.Dev.	1.8	1.1	1.7	1.3	1.3	5.9	1.3	2.0
Rel.Std.Dev.	2.72%	1.54%	2.62%	1.95%	1.91%	5.17%	2.05%	3.05%
PDM ³	-1.36%	6.74%	-1.06%	0.14%	2.24%	70.1%	-1.96%	0.74%

Table A28. continued

Sample No.	Lab H AF*OES	Lab I 4AD*OES
1	62.1	56
2	62.1	57
3	62.1	54
4	62.2	57
5	63.0	56
Mean	62.3	56.0
Median	62.1	56.0
Std.Dev.	0.4	1.2
Rel.Std.Dev.	0.63%	2.19%
PDM ³	-6.61%	-16.0%

Table A29. Analytical results for zinc in West Musgrave standard OREAS 14P (abbreviations as in Table 1; values in ppm).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C 4AD*MS	Lab D 4AD*OES	Lab E 4AD*OES	Lab F 4AD*OES	Lab G 4AD*OES	Lab H 4AD*OES	Lab I 4AD*OES
1	86	100	82	83	294	84	68.1	115	83
2	92	100	82	82	275	84	69.6	119	84
3	88	98	80	84	281	82	70.3	116	80
4	89	100	81	83	273	84	68.1	120	83
5	90	98	78	83	261	84	70.2	117	83
Mean	89.0	99.2	80.6	83.0	276.7	83.6	69.3	117.4	82.6
Median	89.0	100.0	81.0	83.0	274.8	84.0	69.6	117.0	83.0
Std.Dev.	2.2	1.1	1.7	0.7	12.0	0.9	1.1	2.1	1.5
Rel.Std.Dev.	2.51%	1.10%	2.08%	0.85%	4.34%	1.07%	1.58%	1.77%	1.84%
PDM ³	9.41%	21.95%	-0.91%	2.04%	240%	2.77%	-14.9%	44.3%	1.54%

Table A30. Analytical results for zirconium in West Musgrave standard OREAS 14P (note: fusion methods report total Zr, acid digest methods are partial; abbreviations as in Table 1; values in ppm).

Sample No.	Lab A 4AD*OES	Lab B 4AD*OES	Lab C1 4AD*MS	Lab C2 BF*MS	Lab D 4AD*ICP	Lab E 4AD*ICP	Lab G BF*MS	Lab H AF*ICP	Lab I 4AD*MS
1	33	47	36	180	46	58	192	195	88
2	42	41	33	186	45	62	193	195	97
3	39	47	31	189	46	60	184	196	122
4	39	42	35	180	46	59	182	195	95
5	36	44	31	180	46	64	190	195	98
Mean	38	44	33	183	46	61	188	195	100
Median	39	44	33	180	46	60	190	195	97
Std.Dev.	3	3	2	4	0	3	5	0	13
Rel.Std.Dev.	9.05%	6.28%	7.11%	2.19%	0.98%	4.16%	2.61%	0.23%	12.9%
PDM ³	-28.8%	-16.7%	-37.6%	244%	-13.7%	14.5%	255%	268%	88.5%

CERTIFICATE OF ANALYSIS
SMG1

Recommended Value +/- One Standard Deviation

Au 247 +/- 27 ppb
Pt 427 +/- 37 ppb
Pd 4956 +/- 271 ppb
Cu 1489 +/- 101 ppm
Ni 1446 +/- 173 ppm
Co 57 +/- 6 ppm

WARNING

The recommended values for SMG1 for the elements listed above pertain to the date of issue and Accurassay Laboratories cannot be responsible for changes occurring after receipt. It is strongly recommended that all bottles be stored in a dessicator (keep sample away from moisture). The contents of the bottle should be exposed to air for the shortest time possible when taking subsets. Unless these precautions are followed, the recommended values are potentially subject to change. Shake each bottle well prior to use. SMG1 is intended for internal use only.

DESCRIPTION

The material for SMG1 was provided to Accurassay Laboratories by a third party. The sample was pulverized to -200 mesh and blended. The blended sample was then analyzed to demonstrate suitable homogeneity, and bottled in approximately 800-gram units.

CERTIFICATION

Homogeneity testing was performed on 40 subsets for gold, platinum, palladium, copper, nickel and cobalt. The values for these metals are reported within 10% of each other.

The recommended values for all elements are the unweighted mean of 250 analytical determinations by Accurassay Laboratories.

The gold, platinum and palladium was pre-concentrated by fire assay techniques and analyzed using atomic absorption spectroscopy. A sample mass of 30.2 grams and a final volume of 3 mLs was used in this determination.

The copper, nickel and cobalt were digested using an aqua regia digest and analyzed using atomic absorption spectroscopy. A sample mass of 0.25 grams and a final volume of 12 mLs was used in this determination.

The gold, platinum and palladium results from these determinations was converted into parts-per-billion (ppb), then into parts-per-million (ppm). The base metal results from these determinations were converted directly into parts-per-million (ppm).

The recommended values for gold, platinum, palladium, copper, nickel and cobalt are listed above.

TRACEABILITY

Each batch of certification samples was run with a certified reference material provided by CANMET. The values obtained are therefore traceable to the CANMET reference material. The certified reference materials used were GTS-2 for gold and WMS-1a for gold, platinum and palladium. The Geostats Labs standard GBM304-6 was used for copper, nickel and cobalt. The values for the reference materials are listed below.

GTS-2 (Au 0.263 +/- 0.12 ppm)
0.279
0.255

WMS-1a Au (0.300 +/- 0.040 ppb)	WMS-1a Pt (1.91 +/- 0.10 ppb)	WMS-1a Pd (1.45 +/- 0.11 ppb)
0.319	2.019	1.644
0.257	1.876	1.328
0.264	2.046	1.534
0.308	2.020	1.474
0.224	2.070	1.498
0.326	1.802	1.423
0.365	1.951	1.360
0.303	2.073	1.519
0.298	1.895	1.523
0.272	2.016	1.472
0.278	2.039	1.482
0.264	2.063	1.482
0.366	2.060	1.584
0.301	2.089	1.525
	2.090	1.630
	1.993	1.527

GBM304-6 Cu (4241 +/- 215 ppm)	GBM304-6 Ni (2165 +/- 151 ppm)	GBM304-6 Co (118 +/- 13 ppm)
4649.376	2035.92	134.256
4636.992	2109.648	128.784
4189.152	2396.16	122.784
4602.144	2150.112	125.712
4481.616	2301.12	136.176
4313.424	2029.248	112.272
4628.448	2451.12	133.008

REFERENCE

The preparation and certification procedures used for SMG1 are described in an article by Wesley M. Johnson in the Geostandards Newsletter, Vol. 15, No. 1, April 1991, p. 23 to 31, entitled "Use of Geochemical Reference Materials In A Quality Control/Quality Assurance Program".

Date of Issue: April 2008

Start Date: 28/Jan/08

Hole: HN-08-01

Southampton Ventures Inc.

Nothing: 5646927

Depth: 180 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303547

Elevation: 253.489 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: Iandry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
0	9	CAS		Casing	89	134.8	-68	MAG (NT) 56280	11.6	14.5	Weak	Pervasive	CH		9	11.6	20	FOL	11.6	15.5	FG	FG, up to MG around 15 m"	9	11.6	DISS	PY	0	less 1% (trace)	9	9.3	23001	0.02	0.049	0.007	33	71			
9	11.6	QGAB		Qtz bearing gao	119	135.9	-66.4	MAG (NT) 57550	15.6	16.3	Strong	Fract-Cont	CH	Qtz-Fsppr-C hio vein	11.6	14.5	20	FOL																					
11.6	15.5	MGAB		Mafic Metagab	169	144.1	-66.1	MAG (NT) 56140							19.4	22.2	30	FOL	11.6	14.5	POIK	"LARGE Black xtals . . . initially	11.6	15.5	DISS	PY	1	trace	12.7	13.2	23003	0.009	0.0025	0.0025	478	223			
15.5	16.9	QGAB		Qtz bearing gao										22.2	22.5		SHZ					11.6	15.5	DISS	PO		trace	15.4	15.3	23004	0.017	0.032	0.008	139	67				
16.9	17.5	GAB		Gabbro										22.5	31	25	FOL					15.5	16.9	DISS	PY		possible	16	16.6	23005	0.01	0.021	0.005	112	109				
17.5	18	GAB		Gabbro					18	19.4	Weak	Pervasive	CH		31	33.1	20	FOL				thought to be						sphalerite	22.2	22.5	23006	0.013	0.015	0.005	128	31			
18	19.4	GAB		Gabbro					22.5	31	Moderate	Pervasive	CH		33.1	37	45	FOL				POIK, probably						as well	24.4	24.6	23007	0.0025	0.011	0.005					
19.4	22.5	GAB		Gabbro					29.5	31	Weak	Fract-Cont	CH	local	37	40.4	35	FOL				not anymore."	22.5	29.9	FRA	CP		'trace,	30	30.6	23008	0.017	0.036	0.053	284	481			
22.5	31	GAB		Gabbro										small	40.4	45	20	FR	16.9	17.5	VFG						along	31.3	31.9	23009	0.022	0.046	0.03	142	383				
31	33.1	MGAB		Mafic Metagab										<1cm	51	52	25	VEIN	19.4	22.5	FG	'local Qtz, local					'fractures'		23010	0.0025	0.0025								
33.1	45	GAB		Gabbro										veins	52	55.2	25	VEIN				large plag	24.5	24.5	FRA	CP		in fracture	32	32.5	23011	0.046	0.185	0.007	780	448			
45	52	MGAB		Mafic Metagab					31	33.1	Weak	Pervasive	CH		55.9	63.5	35	FOL				(>30m)"	29	31	DISS	PY		'trace,	34.2	34.7	23012	0.109	0.283	0.005	1200	315			
52	55.2	LGAB		Leucogabbro					33.1	45	Weak	Pervasive	CH		67.3	70.9	65	CT	22.5	31	FG	locally better					occasional	37.5	38	23013	0.0785	0.2425	0.00375	473	55				
55.2	55.9	GAB		Gabbro					38.7	40.4	Strong	Pervasive	BT	altered	77	79.5	50	FOL				crystallized					y near	38.4	38.7	23014	0.091	0.276	0.005	615	85				
55.9	63.5	LGAB		Leucogabbro										gabbro	79.5	81.7	60	FOL				(medium					'fractures'	38.7	39.3	23015	0.056	0.177	0.03	897	1050				
63.5	67.3	GAB		Gabbro										with	88.9	89.9	60	FOL				grained)	29	31	DISS	PO		'trace,	40	40.2	23016	0.059	0.33	0.034	1360	1740			
67.3	70.9	LGAB		Leucogabbro										Qtz+BT	93.5	96.9	50	BT	33.1	45	FG	locally MG					occasional	40.5	41.1	23017	0.06	0.165	0.063	867	2190				
70.9	77	GAB		Gabbro										and	96.9	101.6	60	SCHS	33.1	38	M					y near	41.3	41.9	23018	0.033	0.101	0.064	765	2270					
77	79.5	PSAM		Meta-Psammitic										amphibole,	107	113	55	GNE	45	51	M					'fractures'	41.9	42.4	23019	0.047	0.109	0.026	893	1170					
79.5	81.7	PSAM		Meta-Psammitic										Reddish	115.9	133.6	50	GNE	45	51	MG	locally FG	31	33.1	DISS	CP		trace		23020	0.524	7.922	0.466	1490	1600				
81.7	86.9	QTZE		Quartzite										color	135.2	144.6	55	FOL	52	55.2	M					local Py in	42.7	43	23021	0.051	0.249	0.024	1160	1830					
86.9	89.9	PSAM		Meta-Psammitic										looked	139	141	30	FOL	52	55.2	CG					small 5-10	43	43.3	23022	0.058	0.264	0.037	1140	1740					
89.9	93.5	PSAM		Meta-Psammitic										like	157.4	160.3	20	FOL	55.2	55.9	M					cm	43.3	44.1	23023	0.038	0.212	0.047	602	946					
93.5	96.9	PEL		Metapelite										hematite..	160.3	163.1	60	FOL	55.2	55.9	FG					alteration	44.1	45	23024	0.026	0.075	0.03	463	860					
96.9	101.6	PSAM		Meta-Psammitic					45	52	Weak	Pervasive	CH		168.3	168.7	25	FOL	55.9	63.5	CG					zones	45	46	23025	0.025	0.0615	0.0125	415	487					
101.6	103.6	PEL		Metapelite					47.4	47.7	Strong	Fract-Cont	CH	Gao	65.5	65.7		FG	63.5	65.7	FG	locally MG	34.7	37.5	BLB	PY	1	'Near	46	47	23026	0.021	0.074	0.045	460	1210			
103.6	107	QTZE		Quartzite										alteration	66.7	67.3		VFG								'fractures,	47	47.4	23027	0.025	0.077	0.041	320	999					
107	113	PGNE		Gneiss										associated	67.9	68.7		PEG								locally 15%"	47.4	47.7	23028	0.014	0.064	0.134	698	4690					
113	115.9	PEL		Metapelite										w. Qtz	69.7	70		PEG										47.7	48.7	23029	0.031	0.072	0.105	1050	2340				
115.9	133.6	PGNE		Gneiss										Tourmaline	70.2	70.3		PEG									'Py-Po		23030	0.0025	0.0025	0.0025	0.5	5					
133.6	134.5	PSAM		Meta-Psammitic										vein	70.9	70.9		PEG									('1) very	48.7	49.6	23031	0.035	0.115	0.107	984	2070				
134.5	135.2	MS		Massive Sulphide					52	55.2	Moderate	Pervasive	CH		70.9	77		MG				locally FG					little CP"	49.6	50.5	23032	0.04	0.125	0.049	1190	1150				
135.2	144.6	PSAM		Meta-Psammitic					55.2	55.9	Weak	Pervasive	CH					MG				grades to FG	38.7	40.4	DISS	PY			50.5	51	23033	0.019	0.031	0.041	684	990			
144.6	147.5	QTZE		Quartzite					55.9	63.5	Moderate	Pervasive	CH					MG				downhole	40.4	45	BLB-DISS	PY		trace	51	52	23034	0.015	0.074	0.047	676	914			
147.5	148	MS		Massive Sulphide					70.9	77	Weak	Pervasive	CH					MG									trace	53.5	54.5	23035	0.019	0.056	0.015	944	769				
148	151.7	PSAM		Meta-Psammitic					77	79.5	Weak	Pervasive	CH					MG				locally FG							54.5	55.5	23036	0.024	0.076	0.073	715	1610			

Start Date: 28/Jan/08

Hole: HN-08-01

Southampton Ventures Inc.

Nothing: 5646927

Depth: 180 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303547

Elevation: 253.489m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: Ian Dry

Supervisor: []

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
151.7	153	MS		Massive Sulphide				79.5	81.7	Moderate	Pervasive	CH						103.6	107	FG	locally mg (grading?)	40.4	45	BLB-DISS	PO	1	'Abundant	55.9	56.9	23037	0.025	0.0695	0.044	786	1550
153	156.7	QTZE		Quartzite				81.7	88.9	Moderate	Fract-Cont	CH	"along fractures, weak pervasive"					103.6	107	M							locally in	56.9	57.3	23038	0.03	0.033	0.03	1050	2000
156.7	157.4	QV		Quartz Vein														113	115.9	CG	well crystallized						trace Py, Cp"	58.9	59.4	23041	0.043	0.079	0.029	1120	1870
157.4	160.3	PSAM		Meta-Psammite																							23040	0.49	7.9865	0.458	1480	1530			
160.3	163.1	PEL		Metapelite																							23041	0.043	0.079	0.029	1120	1870			
163.1	163.4	MS		Massive Sulphide				89.9	93.5	Weak	Fract-Cont	CH						45	52	BLB-DISS	PY						59.4	60	23042	0.025	0.14	0.023	1120	1810	
163.4	164.1	PEL		Metapelite				93.5	96.9	Weak	Fract-Cont	CH						133.6	134.5	M							more Pc	60	60.8	23043	0.015	0.052	0.015	1170	2100
164.1	164.5	MS		Massive Sulphide				93.5	96.9	Moderate	Patchy	BT						134.5	135.2	M						then Py (31	60.8	61.7	23044	0.135	0.095	0.01	917	1420	
164.5	164.9	PSAM		Meta-Psammite				135.2	144.6	Weak	Fract-Cont	CH						135.2	144.6	FG/IMG						trace	61.7	62.3	23045	0.115	0.177	0.011	1320	1580	
164.9	165.8	QTZE		Quartzite				145	147.5	Weak	Fract-Cont	G						135.2	144.6	M						along vein	62.3	63	23046	0.064	0.162	0.024	1050	1040	
165.8	167	PSAM		Meta-Psammite														138.3	138.9	POBL	Cum						contact	63	63.5	23047	0.081	0.137	0.009	1050	889
167	168	PEL		Metapelite														145	147.5	M						along vein	63.5	64.1	23048	0.038	0.091	0.008	542	429	
168	168.3	QV		Quartz Vein														153	158.7	FG						contact	64.2	64.7	23049	0.125	0.67	0.7185	2700	14900	
168.3	168.7	PSAM		Meta-Psammite														158	160	BC	fractured/blocky core						along vein	64.7	65.7	23050	0.0025	0.0025	0.0025	2	12
168.7	169.2	MS		Massive Sulphide																						contact	64.7	65.7	23051	0.052	0.185	0.063	1170	1750	
169.2	172	PSAM		Meta-Psammite														160.3	163.1	POBL	Crd (0.2-1cm in size)	52	55.2	DISS	PO	0.25	65.7	66.7	23052	0.052	0.149	0.064	1130	1520	
172	172.3	QTZE		Quartzite														163.4	164.1	POBL	Crd	52	55.2	DISS	CP	0.05	66.7	67.7	23053	0.059	0.132	0.041	885	831	
172.3	180	PSAM		Meta-Psammite														163.4	164.1	POBL	Crd	52	55.2	DISS	PY	0.7	67.7	68.7	23054	0.059	0.128	0.039	801	1069.5	
																		163.4	164.1	FG						sulphides	68.7	69.5	23055	0.03	0.049	0.021	243	244	
																		164.5	164.9	M							69.7	70.3	23056	0.022	0.035	0.027	259	388	
																		164.5	164.9	FG							2% sulph,	70.4	70.9	23057	0.02	0.037	0.035	223	407
																		164.9	165.8	M							Po-Py 2.1"	71.2	72	23058	0.078	0.174	0.058	1220	1260
																		164.9	165.8	FG	Fracture	58.8	63.5	BLB	PO		72	73	23059	0.072	0.294	0.228	1280	4410	
																		165.8	167	M							controlled	73	73.3	23060	0.505	8.135	0.485	1550	1530
																		165.8	167	FG								73	73.3	23061	0.0745	0.1575	0.1365	1060	1410
																		167	168	POBL	Crd	63.5	67.3	BLB-DISS	PO	1	73.9	74.8	23062	0.078	0.151	0.115	1150	1450	
																		167	168	VFG							blebs near	75.1	75.6	23063	0.032	0.079	0.061	714	791
																		168.3	168.7	POBL	Crd	63.5	67.3	BLB	CP		75.6	76.1	23064	0.042	0.112	0.419	1100	1920	
																		168.3	168.7	FG								76.2	77	23065	0.086	0.207	0.229	1680	1870
																		169.2	172	FG								77.3	77.8	23066	0.07	0.183	0.06	630	1770
																		170.2	172	POBL	Gr and Crd	70.9	77	DISS	CP		78.1	78.3	23067	0.066	0.114	0.362	901	2230	
																		172	172.3	FG								78.8	79.4	23068	0.02	0.056	0.032	821	535
																		172.3	180	POBL	Crd and Grt	70.9	77	BLB-DISS	PO	0.6	79.7	80.2	23069	0.022	0.038	0.064	299	510	
																												23070	0.0025	0.0025	0.0025	0.5	4		
																												80.8	81.4	23071	0.016	0.018	0.02	131	198
																												82.2	82.8	23072	0.028	0.046	0.573	101	1760

Start Date: 28/Jan/08

Hole: HN-08-02

Southampton Ventures Inc.

Nothing: 6646978

Depth: 256 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303470

Elevation: 254.684 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: Iandry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
0	15.65	CAS		Casing	51	135.3	-57.4	MAG (NT) 57440										15.65	69.14	M																				
15.65	69.14	PXE		Metaproxenite														15.65	69.14	CG																				
69.14	81.9	LGAB		Leucogabbro														69.14	81.9	MG																				
																		69.14	81.9	M	Massive to weakly foliated, 45° TCA.																			
														81.8	81.9	50	VEIN																							
81.9	84.37	GAB		Gabbro														81.9	84.37	M																				
84.37	90.95	LGAB		Leucogabbro														81.9	84.37	MG																				
90.95	94.51	GAB		Gabbro														84.37	90.95	MG																				
94.51	96.57	LGAB		Leucogabbro														84.37	90.95	M																				
																		90.95	94.51	FG																				
																		90.95	94.51	M																				
																		94.51	96.57	MG																				
																		94.51	96.57	M																				
96.57	100.52	MSED		Metasediment														96.57	100.52	50	FOL																			
100.52	119.66	LGAB		Leucogabbro														100.52	119.66	MG																				
																		100.52	119.66	M																				
119.66	129.94	MGAB		Melagabbro					107.6	119.66	Moderate	Patchy	SI	Silification?				103.47	103.52	45	FR							119.66	129.94	MG	119.6	129.9	BLB-DISS	PY	1					
129.94	132.54	GAB		Gabbro														119.66	129.94	M																				
132.54	137.5	MSED		Metasediment					129.94	132.54	Moderate	Patchy	SI					129.94	132.54	MG																				
									132.54	137.5	Weak	Patchy	SI					129.94	132.54	M																				
																		132.54	137.5	MG																				
137.5	138.73	MGAB		Melagabbro					137.5	138.73	Moderate	Patchy	SI						136.26	136.44		VEIN						137.5	138.73	MG	138.4	152.4	BLB-DISS	CP	1					
138.73	139.44	PXE		Metaproxenite														137.5	138.73	M								137.5	138.73	M	139.4	152.4	BLB-DISS	PY	1					
139.44	152.49	GAB		Gabbro														138.73	139.44	M								138.4	152.4	BLB-DISS	PO	1								
																		138.73	139.44	CG																				
																		138.44	152.49	MG																				
																		138.44	152.49	M																				
152.49	163.1	MSED		Metasediment														152.49	163.1	60	FOL							152.49	163.1	MG	153.9	154.2	ST	PY						
																			153.9	154.2	ST							153.9	154.2	ST	PO	5								
																			152.49	163.1	60	FOL						160.2	160.7	BLB-DISS	CP	5								

Start Date: 28/Jan/08

Hole: HN-08-02

Southampton Ventures Inc.

Northing: 6646978

Depth: 255 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803470

Elevation: 254.684 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: Iandry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
225.35	227.75	MS		Massive sulphide																																			
227.75	230.1	PSAM		Meta-Psammite					229.92	229.95						85	VEIN																						
230.1	231.03	MS		Massive sulphide					231.03	231.6						50	FOL																						
231.03	231.8	PSAM		Meta-Psammite																																			
231.8	235.49	PEG		Pegmatite																																			
235.49	247.21	PSAM		Meta-Psammite																																			
247.21	248.39	PEG		Pegmatite																																			

Start Date: 28/Jan/08

Hole: HN-08-03

Southampton Ventures Inc.

Nothing: 6646979

Depth: 276 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303470

Elevation: 254.688 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
0	15	CAS		Casing	36	132.2	-69.6	MAG (NT) 57210	15	46.11	Strong	Pervasive	CH		46.11	50.78	55	CT	15	46.1	FG	orig coarser	15	46.1	DISS	PO		trace	21	22	23168	0.012	0.013	0.015	269	221		
15	46.11	PXE		Pyroxenite	87	131.5	-69.2	MAG (NT) 57240	30.41	35.96	Strong	Patchy	M		64.3	64.5	15	VEIN			grained gabbro	(presence of					sulphides	23.31	24.51	23169	0.006	0.0025	0.005	299	101			
46.11	50.78	MGAB		Mafic Metagab	136	132.6	-69	MAG (NT) 57630	46.11	50.78	Strong	Pervasive	CH		83.5	84	30	FR			large	30.41	35.96	PAT	MT	5						23170	0.0025	0.0025	0.5	3		
50.78	84.84	PXE		Pyroxenite	169	136.3	-67.7	MAG (NT) 57400	50.78	84.84	Strong	Pervasive	CH		87.27	94.86	30	VEIN			chloritized Px)	36.67	37.31	DISS	MAL		local trace	29.5	30.27	23171	0.006	0.007	0.0025	517	136			
84.84	87.27	MGAB		Mafic Metagab	276	134.9	-66.6	MAG (NT) 58950	84.84	87.27	Strong	Pervasive	CH		87.27	94.86	50	JO				50.78	57.7	DISS	PO			32	33	23172	0.007	0.005	0.0025	634	103			
87.27	94.88	PXE		Pyroxenite					87.27	94.88	Strong	Pervasive	CH		94.4	94.5	50	VEIN	15	46.1	M					diss	33	34	23173	0.008	0.0025	0.0025	620	101				
94.88	102.25	MGAB		Mafic Metagab					88.5	88.85	Strong	Fract-Cont	BT		94.88	95	45	VEIN	46.11	50.78	MG				5	sulphides	34	35	23174	0.0025	0.0025	0.0025	648	115				
102.25	113.4	PXE		Pyroxenite					88.5	88.85	Strong	Fract-Cont	CH	'Alteration zone.	94.88	99.8	35	JO	50.78	84.84	M						35	36	23175	0.0025	0.0025	0.0695	647	211				
113.4	116.5	MGAB		Mafic Metagab					100	101				highly friable'	100	101	50	FOL	50.78	84.84	FG	orig coarser	121	122	DISS	CP		trace	36.67	37.31	23176	0.0025	0.0025	0.0025	316	24		
116.5	120.25	PXE		Pyroxenite					100	101					100	101	50	VEIN			grained gabbro	128.2	133.3	DISS	PO		trace	51	51.91	23177	0.0025	0.0025	0.0025	244	12			
120.25	124.7	GAB		Gabbr					120.25	120.25					120.25	120.25	45	CT			(presence of	133.3	143.1	DISS	CP		'trace, local'	56.97	57.67	23178	0.0025	0.0025	0.0025	300	18			
124.7	126.6	MGAB		Mafic Metagab					94.88	102.25	Moderate	Fract-Cont	CH		120.25	122	50	F			large	154	154.7	DISS	PY		trace diss	64.12	64.7	23179	0.021	0.031	0.02	269	396			
126.6	129.2	GAB		Gabbr					94.88	99.8	Moderate	Pervasive	CH		132.5	132.5		VEIN			chloritized Px)						sulph			23180	0.521	7.9915	0.492	1480	1560			
129.2	133.3	QGAB		Qtz bearing gao					102.25	113.4	Moderate	Pervasive	CH		133.3	143.1	40	FOL	84.84	85.62	MG				1	Qtz vein	74.01	74.91	23181	0.00375	0.0085	0.00375	152	44				
133.3	144	MGAB		Mafic Metagab					113.4	116.5	Moderate	Pervasive	CH		147.9	148	10	FR	85.62	87.25	FG				1	Qtz vein	113.4	114	23182	0.0025	0.0025	0.0025	237	137				
144	145.9	QGAB		Qtz bearing gao					116.5	120.25	Weak	Patchy	A	FG amp	150.7	151.6	35	FOL	87.27	94.88	MG	fine grained matrix	157.1	158.1	DISS	PY		121.4	122	23183	0.0025	0.0025	0.0025	192	22			
145.9	148	MGAB		Mafic Metagab									occ. in weak	173.8	176.7	60	SCHS				168.1	159.4	DISS	PO			127.6	128.1	23184	0.0025	0.0025	0.0025	190	72				
146	150.7	PXE		Pyroxenite									foliat on	178.7	178.9	50	CT	94.88	102.25	MG						158.1	159.4	DISS	CP		129	129.5	23185	0.0025	0.018	0.0025	133	58
150.7	157.1	QGAB		Qtz bearing gao										196.5	196.5	35	CT	102.25	113.4	FG	w local large	159.4	162.7	FRA	PY		129.5	130.4	23186	0.009	0.023	0.0025	78	223				
157.1	158.1	LGAB		Leucogabbro					116.5	120.25	Moderate	Pervasive	CH		200	209.6	50	GNE			chloritized Px	159.4	162.7	BLB-DISS	PO	1.2		132.4	132.9	23187	0.0025	0.011	0.0025	31	99			
158.1	159.4	GAB		Gabbr					120.25	124.7	Moderate	Pervasive	CH		209.6	217.4	60	FOL			(coarser	159.4	162.7	BLB-DISS	PY	0.2		132.9	133.9	23188	0.0025	0.009	0.005	41	183			
159.4	162.7	QGAB		Qtz bearing gao					124.7	126.6	Weak	Pervasive	CH		217.4	222.2	55	FOL			grained before metamorphism)	159.4	162.7	BLB-DISS	CP	0.6		135.7	137.5	23189	0.006	0.02	0.009	72	212			
162.7	163.4	GAB		Gabbr					126.6	128.2	Weak	Pervasive	CH		222.2	224.5	60	FOL				162.7	163.4	DISS	PO	0.8												
163.4	164	PEL		Metapelite					127.5	128.2	Moderate	Pervasive	BT		227.2	236.65	65	FOL	102.25	113.4	M				0.7		162.7	163.4	DISS	PY								
164	166.4	PSAM		Meta-Psammite					128.2	132.5	Moderate	Patchy	SI		236.9	243.7	60	FOL	113.4	116.5	MG				0.5		162.7	163.4	DISS	CP								
166.4	167.6	GAB		Gabbr					128.2	133.3	Weak	Pervasive	CH		247.25	247.55	40	CT	116.5	120.25	FG				0.4		163.4	164	DISS	CP								
167.6	173.8	QTZE		Quartzite					132.5	132.5	Strong	Fract-Cont	CH		247.55	249.7		FOL	124.7	126.6	M				0.6		163.4	164	DISS	PY								
173.8	176.7	PSAM		Meta-Psammite					133.3	143.1	Strong	Fract-Cont	CH	only in local zones	253.2	253.6	60	CT	124.7	126.6	MG				1		164.3	164.6	DISS	PO								
176.7	177.1	MGAB		Mafic Metagab										253.6	254.6	60	FOL	126.6	128.2	MG						165	166.4	DISS	MT									
177.1	178.7	PSAM		Meta-Psammite										254.6	254.6	60	CT	128.2	133.3	FG	w large Qtz.	165	166.4	DISS	CP	0.33		165	166.4	DISS	CP							
178.7	178.9	MS		Massive Sulphide									near veins	255.45	257.2	60	FOL	133.3	143.1	FG	with MG Py	165	166.4	DISS	PO	0.66												
178.9	180.7	PSAM		Meta-Psammite					133.3	143.1	Weak	Pervasive	CH		257.2	259	90	BT	144	145.9	CG						166.4	167.6	DISS	PO								
180.7	181	QV		Quartz Vein					144	145.9	Moderate	Patchy	SI		263.8	264.2	70	VEIN	145.9	146	FG/IMG						168.3	169.8	DISS	PO								
181	183.6	MSVOL		Mafic Volcanic										264.2	269	75	BT	148	150.7	FG/IMG							172.1	172.6	BLB-DISS	CP								
183.6	184.7	PSAM		Meta-Psammite					145.9	148	Moderate	Patchy	CH		266	267.1	65	SCHS	150.7	167.1	FG/IMG																	
184.7	185.9	QTZE		Quartzite					145.9	148	Moderate	Patchy	SI		272.2	272.6	20	CT	157.1	166.1	FG/IMG																	

Start Date: 28/Jan/08

Hole: HN-08-03

Southampton Ventures Inc.

Nothing: 6646979

Depth: 276 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303470

Elevation: 254.688 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays																		
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm									
272.6	276	PSAM		Meta-Psammite														244.85	245.1	FG		183.6	183.6	CON	CP	30	at contact																		
																		244.85	245.1	M							between																		
																		245.75	247.25	M							units																		
																		245.75	247.25	FG/MG		184.7	185.9	DISS	PO		trace																		
																		249.7	251.2	FG		190	192.5	DISS	PO		trace																		
																		251.2	251.7	VFG		190	192.5	DISS	CP		trace																		
																		253.6	255.45	FG		190.6	190.7	MASS	PO	90	'dominantly																		
																		255.45	257.2	FG/MG							Po, minor																		
																		258	259.3	FG/MG	with large cm-size Grt						Py (5%)																		
																		259.3	260.5	CG		193	194	DISS	PO	2	trace																		
																		266	267.1	FG/MG		196.5	197.5	DISS	PO		'trace,																		
																		267.1	272.2	FG/MG		197.5	198.1	DISS	PO		local																		
																		272.2	272.6	FG							isolated																		
																						197.5	198.1	DISS	CP		'trace,																		
																											local																		
																											isolated																		
																											grains"																		
																						207.5	208	DISS	CP	3	'diss,																		
																											aligned																		
																											with fol"																		
																						213	213.5	DISS	CP	1	'diss,																		
																											aligned																		
																											with fol"																		
																						217.4	222.2	Vein	CP		'trace,																		
																											found																		
																											mostly in																		
																						222.2	225.8	DISS	MT		local Qtz																		
																						222.2	228.8	DISS	CP		veins."																		
																											'distributed																		
																											parallel to																		
																						227.2	233	DISS	MT	2	fol., local"																		
																						227.2	235.6	DISS	CP		trace Ccp																		

Southampton Ventures Inc.

Diamond Core Log Sheet

Start Date: 28/Jan/08
 Completion Date: 30/Jan/08
 Azimuth: 124
 Dip: -60
 Survey Method: Flexit

Hole: HN-08-04
 Project: SV-HDN
 Property: Horden Lake
 Logged By: Landry
 Date: 25/04/2008
 Storage Location: Horden Lake

Nothing: 6647031
 Easting: 803393
 Projection: UTM NAD83 Zone 18N Hole Diameter: NQ
 Depth: 317 m
 Elevation: 255.487 m
 Supervisor: [Signature]

Depth				Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual	Depth	Azimuth		Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
225.59	225.71							225.59	225.71	Strong	Fract-Cont	SI						242.28	245.02	M			295	295.3	SMASS	CP	20			25620	0.478	0.012	0.477	1430	1560			
233.3	233.4							233.3	233.4	Strong	Fract-Cont	CA	Carbonate ?					242.29	245.02	FG			295	295.3	SMASS	PO	15		233	234	25621	0.0025	0.14	1.452	250	3220		
																		250.48	253.01	M			295	295.2	BLB-DISS	CP	5		234	235	25622	0.0025	0.08	1.862	150.5	4820		
								235.27	235.73	Strong	Fract-Cont	CH						250.48	253.01	FG			295	295.2	BLB-DISS	PO	15		235	235	25623	0.0025	0.04	0.148	196	796		
								235.27	235.73	Strong	Fract-Cont	BT						253.01	278.38	M			296	295.4	SMASS	CP	10		236	237	25624	0.0025	0.051	0.0025	558	679		
								256.17	256.27	Strong	Fract-Cont	CH						253.01	278.38	MG			296	295.4	SMASS	PO	40		237	238	25625	0.0025	0.02	0.0025	106	77		
								257.46	257.47	Strong	Fract-Cont	CH						281.18	287.09	MG			296	295.5	BLB-DISS	CP	1		238	239	25626	0.0025	0.0025	0.0025	107	83		
								264.62	264.77	Strong	Patchy	BT	May be a primary feature.					287.09	290.22	M			296	295.5	BLB-DISS	PY	1		239	240	25627	0.0025	0.01	0.0025	56	28		
																		287.09	290.22	FG			296	295.5	BLB-DISS	PO	4		240	241	25628	0.0025	0.03	0.0025	742	1470		
								285.11	285.85	Strong	Patchy	CH	Chloritization?					290.22	295	FG			295	295.6	ST	CP	10		241	242	25629	0.0025	0.04	0.0025	377	753		
																		295	295.38	MG			295	295.6	ST	PO	80		242	242	25630	0.0025	0.0025	0.0025	0.5	4		
								285.11	285.85	Strong	Patchy	BT	Biotitization?					295.38	295.24	FG			306	308.5	MASS	CP	15		242	243	25631	0.0025	0.059	0.067	314	959		
																		296.24	295.49	FG			306	308.5	MASS	PO	75		245	245	25632	0.02	0.1025	0.047	406	1530		
																		296.49	306.46	FG			306	309	FRA	CP	2		246	247	25633	0.0025	0.091	0.0025	1350	1850		
																		306.46	308.56	M			308	309	FRA	PO	8		247	248	25634	0.0025	0.02	0.0025	213	438		
																		308.56	317	PEG			316	316.5	FRA	PY	10		248	249	25635	0.0025	0.07	0.0025	780	817		

Start Date: 28/Jan/08

Hole: HN-08-05

Southampton Ventures Inc.

Nothing: 6647032

Depth: 342 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903392

Elevation: 255.632 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
0	24.8	CAS		Casing	120	144.6	-70	MAG (NT) 57390	44.61	46.2	Moderate	Pervasive	SI	bleaching	45.25	45.68	60	DYKE	24.8	71.27	MG		71.29	66.66	BLB	PO	1		307	308	24064	0.063	0.036	0.135	59	1530
24.8	71.29	GAB		Gabbro					55.52	58.86	Moderate	Pervasive	SR	bleaching	55.52	58.86	55	FOL	24.8	71.27	M		71.29	66.66	BLB	ILM	1		308	309	24065	0.041	0.016	0.077	45	458
71.29	86.66	GAB		Gabbro						100.15	100.5			60	FOL	66.2	67.2	BC				very foliated	71.29	66.66	BLB	CP	1		309	310	24066	0.069	0.038	0.374	85	2510
86.66	96.6	MGAB		"melagabro, var. meta"						116.49	119.74		foliated	47	VEIN	71.29	66.66	CG					111.3	112.0	DISS	PY	1		310	311	24067	0.0695	0.035	0.559	746	4288
96.6	111.32	PXE		metaproxenite						161	217		area	25	FR	71.29	66.66	M					111.3	112.0	DISS	CP	1		311	312	24068	0.061	0.053	0.143	62	1530
111.32	112.06	MGAB		"melagabro, var. meta"					66.86	66.97	Moderate	Pervasive	SR	"with Bl, crumbly"	161.01	217	45	FR	86.66	96.6	M		253.7	255.1	DISS	MT	0.5	weakly magnetic	312	313	24069	0.077	0.188	0.268	201	2850
112.06	116.49	PXE		metaproxenite						217	221			25	FR	86.66	96.6	CG												24070	0.0025	0.0025	0.025	5	5	
116.49	119.74	GAB		Gabbro					67.28	67.47	Moderate	Pervasive	SR	"bleached"	217	221	45	VEIN	96.6	111.32	M		264	265.0	DISS	MT	0.5		313	314	24071	0.097	0.154	0.344	225	3590
119.74	152.89	PXE		metaproxenite						235.4	235.6		no min.	25	VEIN	96.6	111.32	CG					264	265.0	DISS	PO	1		314	314.5	24072	0.114	0.485	0.385	2160	14600
152.89	161	MGAB		"melagabro, var. meta"						239.82	253.74		pyroxenes	45	FOL	111.32	112.06	M					264	265.0	DISS	PY	1		314.5	315	24073	0.081	0.446	0.37	490	5920
161	217	PXE		metaproxenite						255.19	265.07		altered	15	FR	111.32	112.06	CG					265	0.273.3	FRA	CP	1		315	315.5	24074	0.182	0.369	0.408	1150	7150
217	228.26	MGAB		"melagabro, var. meta"						265.07	273.39		to Bl"	45	FOL	112.06	116.49	M					265.0	273.3	FRA	PO	1		315.5	316	24075	0.068	0.294	0.105	1430	3630
228.26	234	PXE		metaproxenite					100.15	100.5	Strong	Pervasive	BT	crumbly	274.2	278.66	50	VEIN	112.06	116.49	CG		273.3	274.2	DISS	PO	1		316	316.5	24076	0.0275	1.051	1.723	3940	15000
234	239.82	MGAB		"melagabro, var. meta"						266.91	287.41		weak	60	CT	116.49	119.74	M					273.3	274.2	DISS	CP	1		316.5	317	24077	0.078	0.191	0.391	759	6480
239.82	253.74	QGAB		Qtz bearing gneiss						287.41	290.87		foliated	40	SCHS	116.49	119.74	FG/IMG					277.5	277.5	Vein	PO	10		317	318	24078	0.049	0.063	0.163	115	1870
253.74	255.19	UNK		Unknown						293.16	294		in close area	40	SCHS	119.74	122.55	M					277.5	277.5	Vein	PY	20		318	319	24079	0.032	0.0505	0.235	101	2150
255.19	265.07	LGAB		"leucogabro, var. meta"						294	301		area	40	FR	119.74	122.55	CG					278.6	285	BLB-DISS	PY	2			24080	0.4615	7.9135	0.494	1420	1390	
265.07	273.39	DIA		Diabase					100.15	100.5	Weak	Pervasive	SR		313.7	313.78	10	VEIN	161	217	M		278.6	285	BLB-DISS	PO	3		319	320	24081	0.03	0.047	0.103	151	1340
273.39	274.2	PEG		Pegmatite					116.49	119.74	Moderate	Pervasive	SI	associated	314	316	50	VEIN	161	217	MG/CG		278.6	285	BLB-DISS	CP	2		320	321	24082	0.019	0.011	0.01	68	189
274.2	278.66	QTZE		Quartzite						326.5	326.55		with small	45	VEIN	217	226.26	M				quite massive	285	285.9	BLB-DISS	PO	2		321	322	24083	0.0025	0.0025	0.0025	54	30
278.66	285	PSAM		Meta-Psammite						328.93	338.6			45	VEIN							some frags.	285	285.9	BLB-DISS	PY	2		322	323	24084	0.02	0.011	0.01	17	29
285	286.91	SSH		Metased-Schists						330.78	331.48		amphibole veins	40	DYKE	217	226.26	MG/CG					285	285.9	BLB-DISS	CP	2		323	324	24085	0.016	0.0025	0.01	8	18
286.91	287.41	PEG		Pegmatite						228.26	234					228.26	234	M											324	325	24086	0.0025	0.0025	0.01	27	6
287.41	290.87	SSH		Metased-Schists					161	217	Weak	Pervasive	CH	pyroxenes								dark green	287.4	290.8	BLB-DISS	CP	1		325	326	24087	0.022	0.0025	0.008	34	7
290.87	293.16	PEG		Pegmatite						234	239.82		slightly altered			234	239.82	M					287.4	290.8	BLB-DISS	PO	3		326	327	24088	0.013	0.0025	0.005	20	6
293.16	294	SSH		Metased-Schists						234	239.82		along			239.82	253.74	MG					294	301	BLB-DISS	CP	2		327	328	24089	0.019	0.0025	0.005	16	12
294	301	QTZE		Quartzite						253.74	255.19		cleavage			253.74	255.19	M					294	301	BLB-DISS	PO	4		328	329	24091	0.022	0.0025	0.012	12	15
301	306.6	QTZE		Quartzite						255.19	265.07		veinlets			253.74	255.19	FG/IMG			more amorphous	294.1	295	BLB-DISS	PB	3		329	330	24092	0.028	0.007	0.017	61	211	
306.6	314	PSAM		Meta-Psammite					217	228.26	Weak	Fract-Cont.	SI			255.19	265.07	M					301	306.6	DISS	CP	1		330	331	24093	0.029	0.01	0.024	58	176
314	316	PSAM		Meta-Psammite					235.4	235.6	Moderate	Fract-Cont.	SI			255.19	265.07	MG/CG					301	306.6	DISS	PY	1	minor	331	332	24094	0.03	0.007	0.042	49	295
316	316.5	MS		Massive Sulphide						264.89	264.84					265.07	265.07	POR			Plagioclase	306.6	314	BLB-DISS	PY	1		332	333	24095	0.03	0.022	0.241	39	466	
316.5	328.93	PSAM		Meta-Psammite						265.07	273.39					265.07	273.39	FG					306.6	314	BLB-DISS	CP	1		333	334	24096	0.031	0.018	0.145	43	411
328.93	338.6	MVOL		Mafic Volcanic						273.39	274.2					265.07	273.39	M					306.6	314	BLB-DISS	PO	2		334	335	24097	0.027	0.013	0.164	53	801
										273.39	274.2					273.39	274.2	MG/CG			amorphous	314	316	DISS	MT	3		335	335	24098	0.017	0.029	0.123	64	623	
										274.2	276.66					274.2	276.66	FG					314	316	ST	MT	2		336	337	24099	0.035	0.013	0.025	70	279

Start Date 28/Jan/08

Hole: HN-08-05

Southampton Ventures Inc.

Nothing: 6647032

Depth: 342 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303392

Elevation: 255.632m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
								239.82	253.74	Moderate	Fract-Cont	CA	"all along fractures, sometimes appear orange beige colour."					278.66	285	M		314	316	ST	PY	2														
																		278.66	285	MG/CG		314	316	ST	CP	2		337	338	24101	0.038	0.012	0.018	67	191					
																		285	286.91	M		314	316	ST	PO	5		338	339	24102	0.034	0.009	0.014	81	123					
																		285	286.91	MG		316	316.5	SMASS	PY	7														
																		286.91	287.41	PEG		316	318.5	SMASS	CP	8														
																		286.91	287.41	MG/CG		316	316.5	SMASS	PO	40														
																		287.41	290.87	MG	blebby	316.5	318	BLB-DISS	PY	2														
																		290.87	293.16	CG		316.5	318	BLB-DISS	CP	2														
								239.82	253.74	Strong	Patchy	SI						290.87	293.16	PEG	musc pegmatite	316.5	318	ST	PO	3														
								239.82	253.74	Strong	Pervasive	SI						293.16	294	MG/CG		328.9	338.6	FRA	CP	1														
								253.74	255.19	Strong	Pervasive	SI	mix zone					294	301	FG																				
								255.19	265.07	Moderate	Patchy	BT	pyroxenes alter to Bt					301	305.6	M																				
																		301	306.6	VFG																				
								252.8	263.2	Moderate	Fract-Cont	SI	along veinlets					306.6	314	M																				
																		306.6	314	MG																				
								262.8	263.2	Moderate	Fract-Cont	CH						314	316	FG/MG																				
								273.39	274.2	Strong	Pervasive	SI						316	316.5	M																				
								278.66	285	Strong	Pervasive	BT						316	316.5	FG																				
								285	286.91	Strong	Pervasive	BT						316.5	328.93	M																				
								287.04	287.08	Moderate	Fract-Cont	BT	"Bt and black mir along vein, magnetic"					316.5	328.93	FG																				
																		328.93	338.6	FG																				
								287.41	290.87	Strong	Pervasive	BT																												
								293.16	294	Strong	Patchy	BT	schistosity																											
								301	306.6	Moderate	Patchy	M	magnetite nodules																											
								314	316	Moderate	Pervasive	SI																												
								314	316	Moderate	Fract-Cont	M																												
								314	318	Strong	Fract-Cont	A																												
								316	316.5	Moderate	Patchy	A	along with sulphides																											

Start Date: 28/Jan/08

Hole: HN-08-05

Southampton Ventures Inc.

Northing: 6647032

Depth: 342 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803392

Elevation: 255.632m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
								321.5	326	Moderate	Patchy	CH	sometime look like cordierite																											
								325.5	326.55	Moderate	Fract-Cont	CA	'associate c with Qtz, light beige colour.'																											
								328.93	338.6	Weak	Fract-Cont	CA																												
								328.93	338.6	Weak	Fract-Cont	SI	along veinlets																											

Start Date: 28/Jan/08

Hole: HN-08-06

Southampton Ventures Inc.

Northing: 6648900

Depth: 103 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303685

Elevation: 252.736 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -45

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
0	17.34	CAS		Casing	0	124	-45		29.96	30.1	Strong	Pervasive	CH	black	17.34	31.4	53	FR	17.34	31.4	M		17.34	31.4	FRA	CP	1	appears	21	23	24565	0.0025	0.0025	0.0025	59	35		
17.34	31.4	QTZE		Quartzite									waxy look	31.4	32	67	FOL	17.34	31.4	FG							in vein like	23	25	24566	0.0025	0.0025	0.0025	134	98			
31.4	32	MVOL		Mafic Volcanic					31.4	32	Moderate	Patchy	A		32	35.84	43	FR	31.4	32	FG						(fracture	25	27	24567	0.0025	0.0025	0.0025	105	265			
32	35.84	QTZE		Quartzite					35.84	43.85	Weak	Patchy	CH	"dark	35.84	43.85	65	FOL	32	35.84	M						(filling),	27	29	24568	0.0025	0.0025	0.0025	99	-412			
35.84	43.85	PEL		Metapelite									bluish,	43.85	49.21	55	VEIN	32	35.84	FG						~1/m'	29	29.5	24569	0.038	0.0385	0.105	1530	4270				
43.85	49.21	MVOL		Mafic Volcanic									sometime	43.85	49.21	55	FOL	35.84	43.85	FG/MG	musc schist	17.34	31.4	DISS	PY	1	'appears			24570	0.5015	7.918	0.5055	1460	1530			
49.21	60.64	SSH		Metased-Schists									look like	49.21	60.64	60	FOL				with chlorite rods						in vein like	29.5	30.5	24571	0.0025	0.0025	0.0025	66	340			
60.64	62.07	MS		Massive Sulphide									cordierite'	60.64	62.07	58	FOL	43.85	49.21	FG	fine to very fine						(fracture	30.5	31.5	24572	0.008	0.032	0.119	184	1920			
62.07	65.12	PSAM		Meta-Psammite					38.35	38.55	Strong	Pervasive	CH	med	62.07	65.12	56	VEIN	49.21	60.64	MG						(filling),	31.5	32	24573	0.027	0.1	0.045	737	2230			
65.12	66.03	MD		Mafic Dyke									green	65.12	66.03	83	FOL	60.64	62.07	FG	psammite						~1/m'	32	33.5	24574	0.0025	0.008	0.033	59	1420			
66.03	73.21	PEL		Metapelite									with waxy	66.03	65.83	80	VEIN				(sandstone)	17.34	31.4	FRA	PO	1	'appears	33.5	35	24575	0.0025	0.0025	0.0025	81	449			
73.21	75.85	MS		Massive Sulphide									feel	66.03	73.21	85	FOL	62.07	65.12	FG						in vein like	35	36	24576	0.0025	0.0025	0.0025	88	527				
75.85	76.81	PSAM		Meta-Psammite					43.85	49.21	Weak	Pervasive	CH		71.94	71.97	82	VEIN	65.12	66.03	FG/MG						(fracture											
76.81	97.09	MD		Mafic Dyke					49.21	60.64	Moderate	Patchy	BT	appears	73.21	75.85	47	FOL	66.03	73.21	FG						(filling),											
97.09	99	PSAM		Meta-Psammite									in clusters	75.85	76.81	80	FOL	73.21	75.85	FG	psammitic						~1/m'											
99	102.74	SSH		Metased-Schists					49.21	60.64	Weak	Patchy	CH	chlorite	76.81	92.84	60	VEIN				composed matrix	17.34	31.4	DISS	MT	3	up to 2mm										
													nodule	80.53	80.71		VEIN	75.85	76.81	FG								31.4	32	DISS	CP	0.5						
													(cord	85.85	86.6		VEIN	76.81	77.5	FG								31.4	32	DISS	PY	2						
													look a like)	97.09	99	60	VEIN	77.5	92.84	FG/MG								31.4	32	DISS	PO	2						
									66.03	73.21	Weak	Patchy	CH	small	99	102.74	61	FOL	97.09	99	FG								31.4	32	DISS	MT	5					
													nods?															31.93	31.97	Vein	PY	10						
													almost															31.93	31.97	Vein	PO	20						
													undiscarna															32	35.84	ST	PO	1						
													ble															32	35.84	DISS	PY	1						
									73.21	75.85	Moderate	Patchy	A															32	35.84	ST	CP	1						
									75.85	76.81	Weak	Patchy	BT	weak														32	35.84	ST	MT	3						
													clusters															32	35.84	DISS	MT	3						
									96.1	96.77	Strong	Pervasive	A	cummingto														35.84	43.85	ST	PO	1						
													nite halo															35.84	43.85	ST	CP	1						
													associated															43.85	49.21	DISS	PY	0.5						
													w/ th															43.85	49.21	DISS	CP	0.5						
													felsic																									
													vein at															49.21	60.64	DISS	CP	1						
													mid of															49.21	60.64	DISS	PY	1						
													alteration															55.5	60.64	ST	PO	1						
													interval																									

Start Date: 28/Jant08

Hole: HN-08-06

Southampton Ventures Inc.

Nothing: 6648900

Depth: 103 m

Completion Date: 30/Jant08

Project: SV-HDN

Diamond Core Log Sheet

Eastng: 303685

Elevation: 252.736 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -45

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization							Assays																					
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm													
								97.75	97.97	Strong	Fract:Cont	A	Hb vein									60.64	62.07	DISS	MT	3	Early?																						
																							60.64	62.07	DISS	PY	1																						
																							60.64	62.07	SMASS	CP	10																						
																							60.64	62.07	MASS	PO	65																						
																							62.07	63.72	ST	PO	5																						
																							62.07	63.72	ST	CP	8																						
																							65.6	65.68	DISS	PY	1																						
																							66.03	73.21	DISS	PY	0.5																						
																							66.03	73.21	DISS	CP	0.5																						
																							73.21	73.5	ST	PO	5																						
																							73.21	73.5	ST	CP	10																						
																							73.5	75.95	MASS	CP	20																						
																							73.5	75.95	MASS	PO	75																						
																							75.8	75.95	ST	MT	15																						
																							75.95	76.81	DISS	PY	3																						
																							76.81	92.84	DISS	MT	1																						
																							65.96	66.6	BLB	PY	5																						
																							98.08	99	BLB	CP	1																						
																							98.08	99	BLB	PY	4																						

Start Date: 28/Jan/08

Hole: HN-08-07

Southampton Ventures Inc.

Northing: 5648900

Depth: 150 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303584

Elevation: 252.635m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
0	12.45	CAS		Casing	51	139.3	-67.8	MAG (nT) 56850	14.74	19.1	Strong	Pervasive	CH		12.45	43.21	48	FOL	12.45	43.21	MG		12.8	13.3	SMASS	CP	8				26500	0.035	0.141	0.048	18500	8320		
12.45	43.21	QTZE		Quartzite	150	144	-65.2	MAG (nT) 57070	23.15	24.15	Strong	Pervasive	CH		55	56	20	FOL	43.21	46.57	MG		12.8	13.3	SMASS	PO	30				26501	0.0025	0.023	0.0025	807	871		
43.21	48.57	PSAM		Meta-Psammite					28.7	29	Strong	Pervasive	CH		59.45	84.85	50	FOL	48.57	52.74	MG		28.5	29.5	26502	0.0025	0.01	0.0025	202	239			26502	0.0025	0.023	0.0025	807	871
48.57	52.74	PEL		Metapelite					38	39.15	Strong	Pervasive	CH		83.75	83.8	32	VEIN	52.74	59.45	FG		13.3	43.21	BLB-DISS	PO	2				26503	0.0025	0.0025	0.0025	97	608		
52.74	59.45	MVOL		Mafic Volcanic					43.21	46.7	Moderate	Pervasive	CH		84.85	85.2	70	VEIN	59.45	63.48	MG	MG-FG	22.44	22.56	BLB	CP	5				26504	0.039	0.032	0.21	888	4220		
59.45	84.85	PSAM		Meta-Psammite					46.7	48.57	Strong	Pervasive	CH		84.85	86.4	50	FOL	84.85	86.4	FG		22.44	22.56	MASS	PO	85				26505	0.019	0.026	0.039	111	856		
84.85	86.4	MVOL		Mafic Volcanic					51.4	52.74	Strong	Pervasive	CH		91.13	102.71	35	FOL	91.13	102.71	MG		33	38.05	DISS	MT	4				26506	0.042	0.078	0.03	234	4690		
86.4	90.33	PEL		Metapelite					59.45	63.48	Moderate	Patchy	CH		93.53	93.67	65	VEIN	102.71	107	M		43.21	46.57	BLB-DISS	PO	1.5				26507	0.0025	0.0025	0.034	46	1920		
90.33	91.13	QV		Quartz Vein					91.8	92.2	Strong	Pervasive	CH		99.08	99.22	65	VEIN	107	112.64	MG		43.21	46.57	BLB-DISS	CP	1.5				26508	0.046	0.083	0.204	154	2780		
91.13	102.71	MSED		Metasediment					122.98	123.15	Strong	Pervasive	CH		107	112.64	52	FOL	112.64	116.1	FG		46.57	52.74	BLB-DISS	PO	1.5				26509	0.048	0.103	0.211	307	4930		
102.71	107	MS		Massive sulphide										107.95	108.08	20	FZ	118.1	143.3	MG		48.57	52.74	BLB-DISS	PY	2				26510	0.0025	0.0025	0.055	5	76			
107	112.64	MSED		Metasediment										118.1	143.3	50	FOL	143.79	147.5	PEG		48.57	52.74	BLB-DISS	CP	1				26511	0.0025	0.0025	0.0025	20	109			
112.64	118.1	MVOL		Mafic Volcanic										129.5	130.15	55	BT					52.74	59.45	BLB-DISS	CP	1				26512	0.0025	0.033	0.105	503	4270			
118.1	143.3	PEL		Metapelite																		52.74	59.45	BLB-DISS	PO	1				26513	0.01	0.023	0.723	96	2440			
143.3	147.5	PEG		Pegmatite																		59.45	84.85	BLB-DISS	PY	1				26514	0.024	0.05	0.295	72	1450			
																						59.45	84.85	BLB-DISS	CP	2				26515	0.0025	0.0025	0.151	162	3200			
																						59.45	84.85	BLB-DISS	PO	3				26516	0.0025	0.05	0.023	491	1300			
																						82.5	82.6	DISS	PO	5				26517	0.06	0.034	0.455	351	5360			
																						84	85	26518	0.0025	0.0025	0.062	212	3580									
																						83.61	84.17	BLB-DISS	PO	1.5				26519	0.0025	0.0025	0.022	106	619			
																						83.61	84.17	BLB-DISS	CP	3.5				26520	0.399	3.818	0.2165	1440	1300			
																						83.61	84.17	BLB-DISS	PY	20				26521	0.0025	0.0025	0.0025	21	63.5			
																						84.85	85.2	BLB-DISS	PY	3				26522	0.0025	0.0025	0.0025	13	27			
																						84.85	85.2	BLB-DISS	CP	2												
																						97.5	97.88	BLB	PO	3												
																						97.5	97.88	BLB	PY	10												
																						102.7	107	BLB	PY	8												
																						102.7	107	SMASS	CP	8												
																						102.7	107	MASS	PO	80												
																						107	107.3	BLB-DISS	PO	3												
																						107	107.3	BLB-DISS	CP	12												
																						134	134.5	BLB	PO	1												
																						134	134.5	BLB	PY	3												

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1cmX4cm

Start Date: 28/Jan/08

Hole: HN-08-08

Southampton Ventures Inc.

Nothing: 5648693

Depth: 111 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303448

Elevation: 254.940m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -45

Logged By: landry

Supervisor: [Redacted]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization				Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
								55.75	56.2	Strong	Pervasive	SI	very silicified					55.75	56.2	FG/IMG	anthophyllite?, qtz, v. minor bt, altered crd????								60	61	28842	0.0025	0.0025	0.0025	97	100		
								55.75	56.2	Moderate	Pervasive	CH						56.2	62.3	CG									59	60	28843	0.0025	0.0025	0.0025	79	130		
								56.2	57.61	Moderate	Pervasive	SI																	61	62	28844	0.0025	0.0025	0.0025	40	92		
								56.2	57.47	Moderate	Pervasive	CH																	62	63	28845	0.0025	0.0025	0.0025	68	86		
								56.2	57.47	Moderate	Pervasive	CH																	67	68	28846	0.0025	0.0025	0.0025	131	154		
								57.47	57.61	Strong	Pervasive	CH																	68	69	28847	0.0025	0.053	0.0025	365	392		
								57.61	58.15	Strong	Pervasive	BT																	69	70	28848	0.01	0.036	0.0025	205	209		
								58.15	62.3	Moderate	Pervasive	SI																	70	71	28849	0.025	0.078	0.0025	944	1050		
																														71	72	28850	0.096	0.144	0.06	20200	9350	
																														72	73	28851	0.038	0.144	0.04	2060	2690	
																														72	73	28852	0.086	0.205	0.173	2210	8250	
																														73	74	28853	0.071	0.146	0.035	852	1900	
																														74	75	28854	0.176	0.176	0.1436	1960	4070	
																														75	76	28855	0.122	0.237	0.491	2060	6120	
																														76	77	28856	0.055	0.113	0.317	839	4020	
																														77	78	28857	0.036	0.099	0.118	1120	2350	
																														83	84	28858	0.008	0.02	0.028	123	458	
																														84	85	28859	0.0025	0.013	0.0025	172	248	
																															85	86	28860	0.0025	0.0025	0.0025	8	19
																														85	86	28861	0.0025	0.03	0.007	327	503	
																														86	87	28862	0.0025	0.0236	0.0025	224.5	267.5	
																														87	88	28863	0.014	0.047	0.0025	598	970	
																														88	89	28864	0.008	0.05	0.0025	511	763	
																														89	90	28865	0.0025	0.012	0.017	125	371	
																														90	91	28866	0.029	0.069	0.014	896	1560	
																														91	92	28867	0.015	0.151	0.144	2130	12250	
																														92	92	28868	0.072	0.712	0.948	6030	22000	
																														92	93	28869	0.044	0.708	0.976	6620	18300	
																														92	93	28870	0.498	7.9015	4.966	1560	1710	
																														94	95	28871	0.0025	0.02	0.0025	357	1710	
																														95	96	28872	0.0025	0.0025	0.0025	47	363	
																														96	97	28873	0.0025	0.0025	0.0025	107	405	
																														97	98	28874	0.0025	0.0025	0.0025	200	1240	
																														98	99	28875	0.0025	0.0025	0.0025	12	35	
																														99	100	28876	0.0025	0.0025	0.0025	18	47	
																														100	101	28877	0.0025	0.0025	0.0025	30	92	

Start Date: 28/Jan/08

Hole: HN-08-08

Southampton Ventures Inc.

Nothing: 6646693

Depth: 111 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303448

Elevation: 254.940m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -45

Logged By: landry

Supervisor: [Redacted]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
																													101	102	28878	0.0025	0.0025	0.0025	123	839
																													102	103	28879	0.0025	0.0025	0.0025	67	725
																															28880	0.0025	0.0025	0.0025	5	20
																													103	104.4	28881	0.0025	0.0025	0.008	12	21
																													104.4	105.5	28882	0.0025	0.0025	0.0025	44	1600
																													79.16	79.65	28883	0.062	0.2285	0.224	2270	5570
																													79.66	80.16	28884	0.032	0.052	0.118	1010	3380
																													80.16	80.5	28885	0.039	0.06	0.738	1560	5220
																													80.5	81	28886	0.0025	0.0025	0.057	249	3190
																													81	81.5	28887	0.0025	0.0025	0.0025	59	106
																													81.5	82	28888	0.0025	0.0025	0.0025	45	88
																													82	82.65	28889	0.0025	0.0025	0.0025	53	45
																															28890	0.4995	7.9695	0.4855	1570	1600
																													82.65	83.15	28891	0.019	0.014	0.01	64	110

Start Date: 28/Jan/08

Hole: HN-08-09

Southampton Ventures Inc.

Nothing: 6646693

Depth: 150 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303447

Elevation: 254.946 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
0	15.5	CAS		Casing	30	129.8	-71.8	MAG (nT) 57330	15.5	19.9	Strong	Pervasive	BT	mm	28.75	29.73	40	BTT	15.5	19.9	M		15.5	19.9	DISS	CP		traces	117	118	28127	0.0025	0.0025	0.0025	14	20	
15.5	19.9	GAB		Gabbro	102	130.1	-71.5	MAG (nT) 57530						nodules	41.94	42.76	60	BTT	15.5	19.9	MG		20.35	20.75	DISS	PY	1		118	119	28128	0.0025	0.0039	0.0025	11	55	
19.9	22.35	PSAM		Meta-Psammite	150	130.2	-70.1	MAG (nT) 57630	15.5	19.9	Strong	Pervasive	CH	mm	49.07	60.76	40	BTT	19.9	22.35	MG	FG to MG	24.78	29.73	DISS	CP	1	associated	119	120	28129	0.0025	0.0025	0.0025	11	11	
22.35	24.78	GAB		Gabbro										nodules	63.3	63.54		SCHS	22.35	24.78	M						with Ch, Si			28130	0.0025	0.0025	0.0025	0.5	3		
24.78	29.73	PSAM		Meta-Psammite					18.25	18.9	Strong	Pervasive	CH		63.54	72.8	45	FOL	22.35	24.78	CG						ait	120	121	28131	0.0025	0.0025	0.0025	8	17		
29.73	34.38	MTVOL		Metavolcanic					18.25	18.9	Strong	Fract-Cont	SI	and	98.85	104.64	30	FOL	24.78	26.75	M		28.9	29.2	BLB-DISS	CP	2		121	122	28132	0.0025	0.005	0.0025	11	59	
34.38	41.94	MD		Mafic Dyke										pervasive	105	105.36	45	BTT	24.78	29.73	MG	FG - MG	34.38	41.94	DISS	CP		traces	122	123	28133	0.0025	0.0025	0.0025	19	6	
41.94	42.76	MTVOL		Metavolcanic					19.9	22.35	Moderate	Patchy	CH		115.4	128.37	50	BTT	29.73	34.38	M		34.38	41.94	DISS	PY		traces	123	124	28134	0.0025	0.0025	0.0025	8	4	
42.76	49.07	GAB		Gabbro					20.1	20.35	Strong	Pervasive	BT		128.37	137.05	55	BT	29.73	34.38	FG		34.38	41.94	DISS	PO	2	DISS and	124	125	28135	0.0025	0.0025	0.0025	9	6	
49.07	63.54	PSAM		Meta-Psammite					20.35	20.75	Strong	Patchy	CH		128.37	137.05	55	SCHS	34.38	41.94	M						FRA	125	125.5	28136	0.0025	0.0025	0.0025	16	9		
63.54	104.64	GAB		Gabbro					21.9	22.15	Strong	Pervasive	BT		137.05	142	45	SCHS	34.38	34.86	VFG		41.94	42.76	DISS	PY	1		125.5	126	28137	0.0025	0.0025	0.0025	7	3	
104.64	105	MTVOL		Metavolcanic					22.35	24.78	Strong	Pervasive	CH	mm	137.05	142	45	BTT	34.86	41.94	FG		42.76	49.07	DISS	PY		traces	126	127	28138	0.0025	0.029	0.0025	341	242	
105	115.4	PSAM		Meta-Psammite										nodules	144.66	150	55	SCHS	41.94	42.76	FG		42.76	49.07	DISS	CP		traces	127	128	28139	0.0025	0.0025	0.0025	25	435	
115.4	128.37	PEL		Metapelite					24.78	29.73	Moderate	Pervasive	BT		144.66	150	55	BT	42.76	47.5	VFG	totally altered	49.07	63.54	BLB-DISS	PO	1				28140	0.4975	7.953	0.5	1520	1460	
128.37	137.05	PEL		Metapelite					24.78	29.73	Moderate	Patchy	SI	blue silica					42.76	47.5	M						less 1%	128	129	28141	0.0025	0.0025	0.0025	11	21		
137.05	142	PEL		Metapelite					24.78	29.73	Moderate	Pervasive	CH						49.07	60.75	FG		49.07	63.54	BLB-DISS	CP	1		129	130	28142	0.0025	0.0025	0.0025	8	5	
142	144.66	MTVOL		Metavolcanic					29.14	29.38	Strong	Pervasive	BT						60.75	63.3	M		54.45	56.11	BLB	MT	1										
144.66	150	PEL		Metapelite					29.73	34.38	Moderate	Fract-Cont	CH						63.54	104.64	M		59	62.9	BLB	MT	1										
									29.73	34.38	Moderate	Patchy	BT						63.54	104.64	CG		61.45	61.8	BLB	MT	3										
														mm					104.64	105	FG		61.6	61.77	ST	PO	2										
									34.38	41.94	Moderate	Fract-Cont	SI					105	105.36	M	partly	61.6	61.77	ST	CP	2											
									41.94	42.76	Moderate	Fract-Cont	SI								brecciated by	63.54	94.4	BLB-DISS	PY		traces										
									41.94	42.76	Weak	Fract-Cont	CA								sulphures	63.54	94.4	BLB-DISS	PO		traces										
									42.76	49.07	Moderate	Pervasive	SI					105	105.36	FG	with medium to	63.54	94.4	BLB-DISS	CP		traces										
									42.76	49.07	Moderate	Patchy	BT								coarse	63.18	63.56	BLB-DISS	ILM	2											
									42.76	49.07	Moderate	Patchy	CH								secondary	94.4	104.6	ST	CP	5											
									42.76	49.07	Moderate	Patchy	E								minerals	94.4	104.6	ST	PO	10											
									42.76	49.07	Weak	Fract-Cont	CA				115.4	128.37	POBL	Garnet	105	115.4	DISS	PY		traces											
									47.5	49.07	Strong	Pervasive	SI				115.4	128.37	FG		105	115.4	BLB-DISS	CP	1												
									47.5	49.07	Strong	Pervasive	CH				128.37	137.05	POBL	cordierite	105	115.4	BLB-DISS	PO	1												
									49.07	57	Weak	Pervasive	BT				128.37	137.05	FG		106.2	106.3	SWASS	PY	60												
									49.07	63.54	Weak	Fract-Cont	SI				137.05	142	POBL	Garnet	106.5	106.6	ST	PY	35												
									49.07	63.54	Weak	Fract-Cont	CH				137.05	142	FG		109.4	109.8	ST	CP	3												
																	142	144.66	FG		109.4	109.8	ST	PO	8												
																	144.66	147.32	POBL	Gr	109.8	110.1	SWASS	PO	60												
																	144.66	147.32	FG		110.1	110.5	ST	CP	4												

Start Date: 28/Jan/08

Hole: HN-08-09

Southampton Ventures Inc.

Nothing: 6646693

Depth: 150 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303447

Elevation: 254.946 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
								54.45	58.11	Moderate	Patchy	M	disseminat ed Magnetite crystals														110.1	110.5	ST	PO	15							
																											111.3	112.1	BLB-DISS	CP	2							
																											111.3	112.1	ST	PO	5							
																											112.1	113.0	ST	CP	6							
								57	80.75	Moderate	Pervasive	BT	Moderate to strong disseminat														112.1	113.0	SMASS	PO	50							
																											113.3	114	BLB-DISS	MT	1							
								59	62.9	Moderate	Patchy	M	disseminat ed Mag Crystals														115.4	128.3	BLB-DISS	PO	1							
																										115.4	128.3	BLB-DISS	CP	1								
																										126.2	128.5	ST	PO	8								
								63.54	104.84	Moderate	Patchy	CH	"CH-E, patchy and Fact-cont'													126.2	128.5	ST	CP	2								
																										126.5	128.0	BLB-DISS	CP	1								
																										126.5	128.0	BLB-DISS	PO	2								
																										142	144.6	BLB-DISS	PY	1								
								63.54	67	Strong	Pervasive	SI														144.6	150	BLB-DISS	CP									traces
								67	83.17	Moderate	Pervasive	SI																										
								63.17	84.35	Strong	Pervasive	SI	silica and Feldspath. (pegmatite ?)																									
								64.35	89.56	Moderate	Pervasive	SI																										
								69.56	92.63	Strong	Pervasive	SI	"Silica and Feldspath. CH-E"																									
								92.63	104.84	Moderate	Pervasive	SI																										
								98.85	99.5	Moderate	Pervasive	BT																										
								105	115.4	Moderate	Pervasive	CH	mostly near the mineralisat ion																									
								105	115.4	Moderate	Fract-Cont.	SI																										
								115.4	128.37	Moderate	Pervasive	CH																										
								115.4	128.37	Moderate	Patchy	SI																										
								128.37	137.05	Weak	Patchy	SI																										
								128.37	137.05	Moderate	Pervasive	CH																										

Start Date: 28/Jan/08

Hole: HN-08-09

Southampton Ventures Inc.

Nothing: 5648693

Depth: 150 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803447

Elevation: 254.946 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
								137.05	142	Moderate	Pervasive	BT																										
								137.05	142	Strong	Pervasive	CH																										
								143	143.55	Weak	Fract-Cont	SI																										
								143	143.55	Moderate	Fract-Cont	E																										
								144.66	150	Moderate	Pervasive	CH																										
								144.66	150	Moderate	Patchy	SI																										

Start Date: 28/Jan/08

Hole: HN-08-10

Southampton Ventures Inc.

Northing: 6646718

Depth: 168 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303408

Elevation: 255.608m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 29/05/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
0	18.4	CAS		Casing	51	128.1	-89.4	MAG (NT) 57140	18.4	62.3	Weak	Patchy	SI	weak to	18.4	62.3	60	FOL	18.4	19.4	FG		19.9	62.3	DISS	PO	0.5		19.9	20.55	23501	0.0115	0.0025	0.0135	49	470				
18.4	62.3	GAB		Gabbro	102	129.5	-68.8	MAG (NT) 57190						mod	18.4	28.4	60	VEIN	19.4	19.6	FG	nodular Qtz	19.9	62.3	DISS	CP	1		22.38	22.64	23502	0.038	0.0025	0.061	57	2540				
62.3	70.2	GAB		Gabbro	150	131.3	-68.2	MAG (NT) 62360	62.3	70.2	Moderate	Fract-Cont	CH	slight	62.3	70.2	60	VEIN	41	41.2	BC		19.9	62.3	DISS	PY	1		33.73	34.21	23503	0.033	0.0025	0.03	131	406				
70.2	79.1	QGAB		Qtz bearing gabbro										chlorite	70.2	79.1	57	FR	62.3	70.2	FG	chill zone on contact with	70.2	79.1	DISS	PY	1.5	minor	42.1	42.3	23504	0.03	0.0025	0.011	24	113				
79.1	89.7	GAB		Gabbro										alteration	79.1	89.7	62	VEIN				contact with gabbro						some Cp.	43.54	44.5	23505	0.038	0.011	0.015	112	79				
89.7	92.75	GAB		Gabbro										near	85.4	87.35	10	VEIN									more	49.64	50.5	23506	0.038	0.0025	0.011	22	127					
92.75	147.2	GAB		Gabbro										veinlets.	89.7	92.75	45	FOL	70.2	79.1	MG					intense	53.6	53.9	23507	0.029	0.0025	0.007	48	28						
147.2	152.35	QTZE		Quartzite					70.2	79.1	Moderate	Fract-Cont	CH		92.75	147.2	40	VEIN	79.1	69.7	FG					near end of	53.9	54.21	23508	0.053	0.045	0.035	133	599						
152.35	160.1	PSAM		Meta-Psammite					70.2	79.1	Strong	Pervasive	SI	more	147.2	152.35	57	FR	89.7	92.75	MG/CG					interval	61.4	62.4	23509	0.031	0.0025	0.01	48	115						
160.1	168	SLT		Siltstone										intense	152.35	160.1	54	FOL	92.75	147.2	FG								23510	0.454	7.954	0.465	1460	1460						
														along	160.1	168	55	FOL	134.85	135.3	BC								62.4	63.2	23511	0.023	0.05	0.008	36	9				
														fractures					147.2	152.35	FG								63.2	64.2	23512	0.028	0.0025	0.0025	44	9				
														and					152.35	160.1	MG								70	71	23513	0.0095	0.0025	0.025	14	672				
														contacts.					160.1	165	FG								69.7	92.75	DISS	CP	0.5	0.0025	0.011	39	173			
														associated																69.7	92.75	BLB-DISS	PY	1	0.0025	0.053	10	1580		
														with Chl,																81.3	82.3	23516	0.035	0.0025	0.005	23	82			
														and																122.9	124	DISS	PY	2	0.0025	0.0025	27	65		
														veinlets."																148.2	148.4	FRA	PO	2	0.012	0.0025	116	111		
									79.1	89.7	Weak	Fract-Cont	SI	"near																148.2	148.4	FRA	PY	2	0.0025	0.0025	26	21		
														and																	148.2	148.4	FRA	CP	4	0.0025	0.0025	0.025	5	3
														around																	150.3	150.7	FRA	PY	4	0.022	0.015	0.015	117	318
														veinlets,																	91.7	92.9	23521	0.036	0.04	0.014	56	95		
														light																	103.4	103.9	23522	0.036	0.0025	0.0025	24	16		
														green																	152.3	160.1	SMASS	PY	10	0.0025	0.0025	61	73	
														color"																	104.8	105.3	23524	0.027	0.0025	0.0025	70	89		
																															105.3	105.8	23525	0.02	0.0025	0.0025	70	89		
									83.7	84.55	Moderate	Pervasive	SI																		115.4	116.4	23526	0.01	0.013	0.017	61	335		
									89.7	92.75	Weak	Patchy	SI																		122.9	123.4	23527	0.006	0.007	0.013	85	361		
									92.75	147.2	Weak	Fract-Cont	CA	"slight																	152.3	160.1	SMASS	CP	9	0.0025	0.0025	0.012	79	312
														yellow,																		123.4	124	23528	0.0025	0.0025	0.012	79	312	
														along																	160.1	161	DISS	PY	1	0.024	0.025	0.011	42	79
														some																		141	143	23529	0.024	0.025	0.011	42	79	
														veins."																		143	144.5	23531	0.015	0.06	0.042	315	604	
														associated																		144.5	145.5	23532	0.015	0.012	0.057	622	443	
									110	116.5	Moderate	Pervasive	CH																		145.5	147	23533	0.013	0.014	0.06	336	638		
														with Si																		147	148	23534	0.015	0.012	0.119	367	875	
																																148	149	23535	0.0025	0.0025	0.025	285	822	
																																149	150	23536	0.0025	0.0025	0.0025	948	2590	

Start Date: 28/Jan/08

Hole: HN-08-10

Southampton Ventures Inc.

Nothing: 6646718

Depth: 168 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803408

Elevation: 255.608m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 29/05/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
								180.1	168	Moderate	Fract:Cont	CA	some veinlets																150	150.5	23537	0.0335	0.0705	0.0255	1240	2750
																													150.5	151	23538	0.0025	0.0025	0.014	591	3000
																													151	151.5	23539	0.0025	0.0025	0.005	154	220
																															23540	0.0025	0.0025	0.0025	0.5	4
																													151.5	152.2	23541	0.006	0.0025	0.007	418	1560
																													152.5	153	23542	0.0025	0.0025	0.0025	275	2490
																													153	153.5	23543	0.008	0.01	0.013	2920	1810
																													153.5	154	23544	0.006	0.0025	0.0025	574.5	1103
																													154	154.5	23545	0.0025	0.0025	0.012	836	1590
																													154.5	155	23546	0.0025	0.0025	0.0025	1650	13600
																													155	155.5	23547	0.0025	0.0025	0.0025	4610	6320
																													155.5	155	23548	0.048	0.151	0.05	2420	6550
																													156	156.5	23549	0.0155	0.157	0.053	2670	8990
																															23550	0.493	7.996	0.498	1420	1480
																													156.5	157	23551	0.18	0.442	0.026	6320	5200
																													157	157.5	23552	0.274	0.526	0.032	7960	7370
																													157.5	158	23553	0.055	0.358	0.055	2390	11200
																													158	158.5	23554	0.052	0.525	0.303	1670	17200
																													158.5	159	23555	0.072	0.25	0.519	5570	14500
																													159	159.5	23556	0.116	0.372	0.335	5610	32600
																													159.5	160	23557	0.045	0.253	0.097	3160	25500

Start Date: 28/Jan/06

Hole: HN-08-11

Southampton Ventures Inc.

Nothing: 5646771

Depth: 264 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903329

Elevation: 255.327m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration					Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
0	22.7	CAS		Casing	51	133.1	-59	MAG (NT) 57050	129.98	130.2	Moderate	Patchy	SI		22.7	33.1	55	FOL	22.7	33.1	M		22.7	33.1	BLB-DISS	PY	0.5		27.75	28.75	25694	0.054	0.0135	0.0155	52	944	
22.7	33.1	PXE		Metapyroxenite	102	134.4	-58.7	MAG (NT) 57190	136.42	136.58	Moderate	Patchy	SI		32.35	32.65		VEIN	33.1	38.95	FG		22.7	33.1	BLB-DISS	PO	0.5		32	32.55	25695	0.0025	0.0025	0.0025	37	338	
33.1	38.95	MGAB		Melagabbro	150	134.8	-57.9	MAG (NT) 57680	196.53	201.76	Moderate	Patchy	SI	silicified?	38.95	54.15		VEIN	33.1	38.95	M		33.1	38.95	BLB-DISS	PO	0.5	'PO?'	69.85	70.85	25696	0.0025	0.0025	0.0025	30	455	
38.95	54.15	PXE		Metapyroxenite	201	135.3	-57.5	MAG (NT) 57120							54.15	56.95	50	FOL	38.95	54.15	M		(small, vlig)	73.25	73.75	25697	0.0025	0.0025	0.0025	32	136						
54.15	56.95	QGAB		Qtz bearing gneiss	255	137.6	-57.2	MAG (NT) 56750							61.69	97	55	FOL	38.95	54.15	MG		70	70.05	Vein	PY	5		74	74.5	25698	0.0025	0.0025	0.0025	32	135	
56.95	61.69	PXE		Metapyroxenite											70.12	70.81	10	VEIN	54.15	56.95	FG		70.12	70.81	FRA	PY	15		75.55	76.55	25699	0.0025	0.0025	0.0025	42	49	
61.69	97	GAB		Gabbro											97	97	45	CT	56.95	61.69	MG		75.58	75.59	Vein	PY	1				25700	0.479	8.042	0.4745	1400	1400	
97	97.25	QV		Quartz Vein											97.25	103.85		VEIN	61.69	97	FG		76.73	77.05	Vein	PY	3		96.75	97.75	25701	0.0025	0.0025	0.0025	127	144	
97.25	103.85	GAB		Gabbro											142.62	148.1	20	FOL	61.69	97	M		97	97.25	BLB-DISS	PY	1		98	98.5	25702	0.0025	0.0025	0.0025	45	219	
103.85	104.21	QV		Quartz Vein											154.05	154.17		FZ	97	97.25	CG		97.25	103.8	BLB-DISS	PY	0.5		103.7	104.2	25703	0.0025	0.0025	0.0025	94	749	
104.21	233.16	GAB		Gabbro											177.63	179.05	1	FOL	97.25	103.85	FG		111.3	112.3	BLB-DISS	PO	0.5		111.3	112.3	25704	0.0025	0.042	0.014	36	349	
233.16	233.41	MS		Massive sulphide											177.63	179.05		SHZ	97.25	103.85	M		103.8	104.2	BLB-DISS	PY	5		112.3	113.3	25705	0.024	0.03	0.015	45	596	
233.41	237.23	PSAM		Meta-Psammite											196.53	199.26	5	SHZ	104.21	233.16	M		104.2	233.1	ST	CP	0.5		116	118.5	25706	0.111	0.099	0.0245	16	344	
237.23	237.37	MS		Massive sulphide											233.41	237.23		FOL	104.21	233.16	MG		104.2	233.1	ST	PO	1		129.8	130.3	25707	0.002	0.006	0.008	26	227	
237.37	240.37	QTZE		Quartzite											248.87	247.54	80	FOL	233.16	233.41	M		104.2	233.1	ST	PY	1.5	Up	133.5	134	25708	0.0025	0.0025	0.0025	62	459	
240.37	243.28	MVOL		Mafic Volcanic															233.41	237.23	MG		233.1	233.4	MASS	CP	15		138.2	138.7	25709	0.019	0.006	0.012	63	699	
243.28	246.87	PSAM		Meta-Psammite															237.23	237.37	M		233.1	233.4	MASS	PY	15				25710	0.0025	0.0025	0.0025	0.5	4	
246.87	247.54	MSED		Metasediment															237.37	240.37	FG		233.1	233.4	MASS	PO	65		138.5	139	25711	0.0025	0.0025	0.0025	33	150	
247.54	262.46	PSAM		Meta-Psammite															240.37	243.28	M		233.4	237.2	BLB-DISS	CP	3		139	140	25712	0.0025	0.0025	0.0025	37	339	
262.46	264	MVOL		Mafic Volcanic															240.37	243.28	FG		233.4	237.2	BLB-DISS	PO	3		140	141	25713	0.0025	0.0025	0.0025	36	367	
																			243.28	246.87	FG		237.2	237.3	MASS	PY	2		141	142	25714	0.0025	0.0025	0.0025	76	364	
																			246.87	247.54	FG		237.2	237.3	MASS	CP	3		142	143	25715	0.0025	0.0025	0.0025	67	60	
																			237.2	237.3	MASS		143	144	25716	PO	90		143	144	25716	0.006	0.0025	0.0025	124	134	
																			262.46	264	FG		237.3	237.6	BLB-DISS	PY	1		144	145	25717	0.007	0.0025	0.0025	170	425	
																				237.3	237.6	BLB-DISS		237.3	237.6	BLB-DISS	CP	3		145	145	25718	0.0025	0.00425	0.0025	141	310
																				237.3	237.6	BLB-DISS		237.3	237.6	BLB-DISS	PO	10		148.7	149.2	25719	0.009	0.014	0.0025	35	226
																				237.6	239.4	BLB-DISS		237.6	239.4	BLB-DISS	PY	0.5				25720	0.513	7.91	0.465	1360	1420
																				237.6	239.4	BLB-DISS		237.6	239.4	BLB-DISS	CP	0.5		161.5	162	25721	0.0025	0.025	0.0025	22	543
																				237.6	239.4	BLB-DISS		237.6	239.4	BLB-DISS	PO	1		162	163	25722	0.0025	0.021	0.0025	29	379
																				238.4	240.0	BLB-DISS		238.4	240.0	BLB-DISS	PY	1		163	164	25723	0.011	0.022	0.0025	19	164
																				238.4	240.0	BLB-DISS		177.6	179.6	25724	CP	3		177.6	179.6	25724	0.0025	0.0025	0.0025	63	17
																				238.4	240.0	BLB-DISS		178.6	179.6	25725	PO	10		178.6	179.6	25725	0.009	0.007	0.0025	51	56
																				243.1	243.1	ST		179.6	180.6	25726	CP	35		179.6	180.6	25726	0.021	0.0025	0.033	76	564
																				243.1	243.1	ST		184	165	25727	PO	65		184	165	25727	0.039	0.026	0.013	34	186
																				243.2	243.2	CP		195.5	197.5	25728	CP	10		195.5	197.5	25728	0.03	0.0025	0.0025	53	14
																				243.2	243.2	PO		201.7	202.7	25729	PO	25		201.7	202.7	25729	0.006	0.0025	0.0025	20	9

Start Date: 28/Jan/08

Hole: HN-08-11

Southampton Ventures Inc.

Nothing: 5646771

Depth: 264 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303329

Elevation: 255.327m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays																		
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm									
																																247	248	25768	0.061	0.028	0.019	20	99						
																																248	249	25767	0.039	0.0025	0.016	5	12						
																															249	250	25768	0.036	0.007	0.008	44	105							
																															250	251	25769	0.055	0.04	0.035	324	1140							
																																		251	252	25770	0.026	0.0025	0.0025	0.5	5				
																																			251	252	25771	0.065	0.044	0.011	5	6			
																																				252	253	25772	0.084	0.053	0.015	3	5		
																																					253	254	25773	0.06	0.011	0.01	13	23	
																																						254	255	25774	0.075	0.035	0.015	10	10
																																						255	256	25775	0.088	0.075	0.014	10	8
																																						256	257	25776	0.059	0.041	0.014	19	863
																																						257	258	25777	0.078	0.056	0.018	22	878
																																						258	259	25778	0.066	0.007	0.006	13	297
																																						259	260	25779	0.069	0.07	0.012	16	790
																																						259	260	25780	0.467	7.98	0.464	1400	1490
																																						260	261	25781	0.101	0.137	0.025	23	13
																																						261	262	25782	0.088	0.079	0.018	25	120
																																						262	263	25783	0.081	0.052	0.021	54	259
																																						263	264	25784	0.065	0.026	0.012	44	162

Start Date: 28/Jan/08

Hole: HN-08-12

Southampton Ventures Inc.

Nothing: 6646771

Depth: 300 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903329

Elevation: 255.306 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 29/05/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pl_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
0	22.3	CAS		Casing	51	139.7	-70.5	MAG (NT) 57590	22.3	31.4	Strong	Fract-Cont	CH		22.3	31.4	40	FR	22.3	31.4	CG		22.3	31.4	DISS	PY	2	sometimes	35.7	36.7	23573	0.0025	0.01	0.0785	52	3300	
22.3	31.4	PXE		metapyroxenite	102	139.3	-69.9	MAG (NT) 57630	22.3	31.4	Strong	Pervasive	CH	"along	31.4	36.6	50	FR	29	29.7	BC							follow fabric	40.9	41.8	23574	0.0025	0.0025	0.0025	479	221	
31.4	36.6	GAB		Gabbrc	150	141.1	-69.9	MAG (NT) 57480						pyroxene	36.6	61.7	40	FOL	31.4	36.6	FG/MG		31.4	36.6	BLB-DISS	CP	2	cm bleb	42.2	43.2	23575	0.0025	0.0025	0.0025	466	101	
36.6	61.7	PXE		metapyroxenite	201	143.9	-69.9	MAG (NT) 57600						crystals,	64.1	67.3	50	FR	36.6	61.7	CG	med to coarse						along	61.7	62.7	23576	0.0025	0.0025	0.0025	168	89	
61.7	64.1	GAB		Gabbrc	250	145.2	-69.8	MAG (NT) 57630						altering	67.3	74.2	54	VEIN				grain						contact in	62.7	63.7	23577	0.0025	0.0025	0.0025	132	52	
64.1	67.3	PXE		metapyroxenite	300	147.5	-70	MAG (NT) 56680						to ch orient'	74.2	76	50	FOL	61.7	64.1	FG	fine to med						chill margin	63.7	64.2	23578	0.0025	0.0025	0.0025	70	15	
67.3	74.2	GAB		Gabbrc					31.4	36.6	Moderate	Fract-Cont	SI	small	76	83.4	40	VEIN	64.1	67.3	CG		31.4	36.6	DISS	PY	1	along	76	77	23579	0.0025	0.0025	0.0025	32	198	
74.2	76	MGAB		"melagaboro, var meta'										mm size	91.7	92.2	40	VEIN	67.3	74.2	FG	fine to med						contacts			23580	0.0025	0.0025	0.0025	0.5	4	
76	83.4	GAB		Gabbrc										qtz-spar	91.7	92.2		SHZ	74.2	76	CG						and fabric	77	78.5	23581	0.007	0.0025	0.0025	93	198		
83.4	128.4	MGAB		"melagaboro, var meta'										veins	128.4	134.1	45	FOL	76	83.4	MG		36.6	61.7	DISS	PY	2	disseminate	78.5	80	23582	0.008	0.0025	0.0025	33	142	
128.4	134.1	GAB		Gabbrc										sometime	134.1	149.6	53	FR	83.4	128.4	MG/CG						d along	108.4	109.9	23583	0.006	0.0025	0.0025	36	150		
134.1	149.6	MGAB		"melagaboro, var meta'										associated	150	153.9	60	VEIN	128.4	134.1	FG						weak fabric	129	130.5	23584	0.024	0.015	0.0025	54	1020		
149.6	150	QV		Quartz Vein										with	153.9	161.66	55	LAY	134.1	149.6	MG		61.7	64.1	BLB-DISS	PY	1	'more	131.5	133	23585	0.0065	0.0025	0.0025	26	745	
150	153.9	MGAB		"melagaboro, var meta'										sulphides	161.66	165.2	40	VEIN	150	153.9	FG/MG						present in	133	134	23586	0.0025	0.0025	0.0025	48	216		
153.9	161.66	LGAB		"leucogaboro, var mel'					36.6	61.7	Strong	Pervasive	CH	pyroxenite	165.2	166.94	50	FOL	153.9	161.66	MG/CG	mm to cm plag						top most	140	141	23587	0.008	0.008	0.0025	47	78	
161.66	165.2	DIA		Diabase					36.6	61.7	Weak	Fract-Cont	SI	qtz-spar	166.94	170.75	50	FOL				cryst						portion of	141	142	23588	0.0025	0.006	0.0025	37	217	
165.2	166.94	LGAB		"leucogaboro, var mel'										and clay	170.75	173.95	40	VEIN	161.66	165.2	FG						interval,	147	148.5	23589	0.0025	0.0025	0.0025	30	106		
166.94	170.75	LGAB		"leucogaboro, var mel'										associated	173.95	174.2	40	FOL	165.2	166.94	FG/MG						occurs			23590	0.5	7.9975	0.462	1390	1480		
170.75	173.95	DIA		Diabase										(2%) in	174.2	177.1	60	VEIN	166.94	170.75	FG	along fabric'						along fabric'	155	156.5	23591	0.023	0.059	0.0025	48	74	
173.95	174.2	IVOL		Intermed Volcanic										mm size	177.1	193.36	57	FOL	170.75	173.95	FG		61.7	64.1	BLB-DISS	PO	1	'more	173.8	174.3	23592	0.0025	0.0025	0.0025	41	148	
174.2	177.1	GAB		Gabbrc										white veins	197.5	203.41	47	FOL	173.95	174.2	FG						present in	177.3	178.3	23593	0.0025	0.0025	0.053	60	743		
177.1	193.36	LGAB		"leucogaboro, var mel'					61.7	64.1	Strong	Pervasive	SI	grayish	203.41	210.44	65	VEIN	174.2	177.1	FG						top most	187.5	169	23594	0.027	0.032	0.005	74	275		
193.36	193.76	PGNE		Gneiss										white	225.94	226.13	40	VEIN	177.1	193.36	CG						portion of	169	190.5	23595	0.008	0.01	0.0025	116	417		
193.76	197.5	PSAM		Meta-Psammitite										colour	227.8	228		SHZ	193.36	193.76	MG						interval,	195	196	23596	0.027	0.011	0.008	53	675		
197.5	203.41	LGAB		"leucogaboro, var mel'										and hard	231.17	233.3	55	VEIN	193.76	197.5	M	sometime weak					occurs	196	197	23597	0.0245	0.0075	0.0025	39	385		
203.41	210.44	DIA		Diabase					64.1	67.3	Strong	Pervasive	CH		250.82	251.07	25	VEIN				fabric						along fabric'	168.7	169.7	23598	0.0025	0.0025	0.0025	95	380	
210.44	228	LGAB		"leucogaboro, var mel'					67.3	74.2	Weak	Fract-Cont	SI		268.62	274.48	45	FR	193.76	197.5	MG/CG		76	83.4	FRA	PO	1		209.5	210.5	23599	0.007	0.0025	0.0025	56	167	
228	231.17	LGAB		"leucogaboro, var mel'					74.2	76	Weak	Patchy	CH		274.48	283.7	40	FOL	197.5	203.41	FG/MG		76	83.4	DISS	CP	1			23600	0.0025	0.0025	0.0025	0.5	4		
231.17	233.3	DD		Diabase Dyke					74.2	76	Strong	Patchy	SI		284.14	285	40	STRI	203.41	210.44	FG		91.7	92.2	FRA	PY	2			23601	0.009	0.014	0.048	358	954		
233.3	267.4	LGAB		"leucogaboro, var mel'					112.6	112.1	Strong	Fract-Cont	SI		295	296.54	40	FOL	210.44	228	MG/CG						with shear	236	237	23602	0.008	0.014	0.029	269	917		
267.4	268.62	MSED		Metasediment											296.54	299.35	40	VEIN	228	231.17	BC						zone,	238	239	23603	0.008	0.012	0.005	96	277		
268.62	274.48	QTZE		Quartzite											298.35	300	40	FOL	228	231.17	MG/CG						-fractures/ta	239	240	23604	0.021	0.03	0.013	411	842		
274.48	283.7	SSH		Metased-Schists															231.17	233.3	YFG						bric"	240	241	23605	0.022	0.079	0.01	1190	1320		
283.7	284.14	MS		Massive Sulphide															233.3	267.4	FG/MG		128.4	134.1	FRA	PO	1			241	242	23606	0.0025	0.017	0.0025	239	485
284.14	295	PSAM		Meta-Psammitite															267.4	268.62	FG								242	243	23607	0.03	0.055	0.005	789	1830	
295	296.54	SSH		Metased-Schists															268.62	274.48	FG								243	244	23608	0.057	0.23	0.054	2290	6920	

Start Date: 28/Jan/08

Hole: HN-08-12

Southampton Ventures Inc.

Northing: 6646771

Depth: 300 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903329

Elevation: 255.308m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 29/05/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
298.54	299.35	MVOL		Mafic Volcanic Metased-Schists				110.8	112.1	Moderate	Patchy	CH	"light coloured scotted chlorite, gabbro to Meta gab"					274.48	283.7	MG/CG		134.1	149.6	DISS	PY	2		244	245	23609	0.042	0.137	0.03	1720	3550			
299.35	300	SSH																	284.14	295	FG/MG		161.6	165.2	BLB	CP	1	appears along veinlets.	245	246	23610	0.49	7.9836	0.475	1450	1530		
																		295	298.54	FG																		
																			298.54	299.35	FG		193.7	197.5	DISS	CP	0.5		246	248.5	23612	0.124	0.414	0.074	6310	21200		
								128.4	134.1	Weak	Fract-Cont	SI	"qtz-spar white veins, about 4%, up to cm size"						299.35	300	FG		193.7	197.5	DISS	PY	1.5		248.5	247.5	23613	0.159	0.194	0.059	2560	5490		
																							203.4	210.4	DISS	MT	2		248.5	249.5	23615	0.027	0.085	0.039	996	2054.5		
																							203.4	210.4	DISS	PY	1		249.5	250.5	23616	0.029	0.078	0.029	1160	2320		
																							210.4	228	BLB	PY	0.5		250.5	251.5	23617	0.033	0.062	0.008	729	1240		
																							210.4	228	BLB	CP	0.5		251.5	252.5	23618	0.038	0.071	0.031	858	3070		
																							228	231.1	BLB-DISS	PY	1		252.5	253.5	23619	0.011	0.046	0.011	812	1680		
																							231.1	233.3	DISS	MT	2				23620	0.0025	0.0025	0.0025	2	7		
																							236	248.2	INT	PO	3		253.5	254.5	23621	0.0205	0.0315	0.0145	419	1350		
																							236	248.2	INT	CP	2		254.5	255.1	23622	0.04	0.112	0.034	1260	3240		
																							236	248.2	INT	PY	5		255.1	256.5	23623	0.011	0.038	0.012	427	1240		
																							248.2	248.2	MASS	PY	50	Massive sulphide	256.5	257.5	23624	0.013	0.041	0.028	528	1770		
																							256.5	259	DISS	PO	40	Massive sulphide	257.5	258.5	23625	0.022	0.089	0.047	1030	2810		
																							248.2	248.2	MASS	PO	40	Massive sulphide	258.5	259	23626	0.064	0.44	0.112	6150	18100		
																							248.2	248.2	MASS	CP	10	Massive sulphide	259	260	23627	0.087	0.219	0.213	3420	9400		
																							260	261	23628	CP	10	Massive sulphide	260	261	23628	0.075	0.209	0.062	3300	8860		
																							261	262	23629	CP	10	Massive sulphide	261	262	23629	0.031	0.072	0.039	1300	4520		
																							248.2	255.1	INT	PO	8		262	263	23630	0.4965	8.0015	0.465	1470	1540		
																							246.2	255.1	INT	CP	3		262	263	23631	0.047	0.145	0.151	1480	6040		
																							246.2	255.1	FRA	PY	8	interstitial and along fractures	263	264	23632	0.009	0.103	0.115	1560	6280		
																							264	265	23633	CP	4	interstitial, along foliation and blebby"	265	266	23634	0.021	0.091	0.07	1260	4330		
																							258.7	261.3	BLB-DISS	CP	4	interstitial, along foliation and blebby"	266	267	23635	0.046	0.078	0.068	1040	2960		
																							267	268	23636	CP	4	interstitial, along foliation and blebby"	267	268	23636	0.021	0.064	0.044	980	2560		
																							193.36	193.76	Moderate	Fract-Cont	BT			268	269	23637	0.011	0.052	0.015	634	1430	
																							193.36	193.76	Strong	Pervasive	SI	altered zone	269	270	23638	0.009	0.039	0.017	549	1160		
																							193.76	197.5	Strong	Pervasive	SI		269	271	23639	0.0025	0.037	0.042	822	1590		
																							197.5	203.41	Moderate	Patchy	SI		271	272	23640	0.01	0.042	0.07	503	1310		
																							227.6	228	Strong	Fract-Cont	CH	all along shear zone	272	273	23642	0.027	0.047	0.092	560	1670		
																							273	274.5	Moderate	Patchy	SI		273	274.5	23643	0.008	0.032	0.017	510	1050		
																							274.5	275.5	Moderate	Patchy	SI		274.5	275.5	23644	0.017	0.042	0.018	781	1590		

Start Date: 28/Jan/08

Hole: HN-08-12

Southampton Ventures Inc.

Nothing: 6646771

Depth: 300 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303329

Elevation: 255.308m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 29/05/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
	228							228	231.17	Weak	Fract-Cont	SI	along blocky area									258.7	261.3	BLB-DISS	PO	13	interstitial along foliation and blebby"	275.5	276	23645	0.075	0.1935	0.005	2700	3750			
	267.4							267.4	268.82	Weak	Patchy	CH	mix zone with Gabbro									267.4	268.6		PO	0.5												
	274.48							274.48	283.7	Moderate	Pervasive	BT										267.4	268.6		CP	1												
	284.14							284.14	295	Moderate	Patchy	SI										267.4	268.6		PY	2												
	298.54							298.54	299.35	Moderate	Fract-Cont	SI	halc associated									268.6	274.4	DISS	CP	0.5												
																						268.6	274.4	DISS	PO	1												
																						268.6	274.4	DISS	PY	1												
																						278.9	283.7	SMASS	PY	15	mineralization also occur before and after interval but to lesser intensity											
																						278.9	283.7	SMASS	PO	30	mineralization also occur before and after interval but to lesser intensity											
																						278.9	283.7	SMASS	CP	10	mineralization also occur before and after interval but to lesser intensity											

Start Date: 28/Jan/08

Hole: HN-08-13

Southampton Ventures Inc.

Nothing: 6648821

Depth: 342 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303257

Elevation: 254.887m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: Iandry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization				Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	PT_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
0	21.35	CAS		Casing	51	136.5	-58.9	MAG (nT) 56540	21.35	24.5	Moderate	Pervasive	CH		29.6	33.5	35	CT	21.35	24.5	CG	locally MG	28.7	29.4	DISS	MT			177.9	178.9	23345	0.0025	0.0025	0.0025	69	190	
21.35	24.5	QGAB		Qtz bearing gao	102	137	-58.4	MAG (nT) 57100	25.1	28.7	Moderate	Pervasive	CH		38	39	85	FOL	25.1	28.7	CG	locally MG	29.6	33.5	DISS	MT	2		178.9	180	23346	0.0025	0.0025	0.0025	37	161	
24.5	25.1	LC		Lost Core	150	138.3	-57.9	MAG (nT) 57340	28.7	29.4	Weak		CH		44.6	46.8	80	SHZ	28.7	29.4	M		70.2	74.4	DISS	PO		trace	180	181.1	23347	0.0025	0.0025	0.0025	38	156	
25.1	28.7	QGAB		Qtz bearing gao	201	140.7	-57.4	MAG (nT) 56800	33.5	44.6	Moderate	Pervasive	CH		50.5	50.5	30	VEIN	28.7	29.4	FG/MG		86.6	96.8	DISS	PY		locally fracture	181.1	182	23348	0.0025	0.0025	0.0025	34	340	
28.7	29.4	DD		Diabase Dyke	252	141.3	-56.6	MAG (nT) 57650	38	39	Moderate	Patchy	SI		57.8	58	25	SHZ	29.6	33.5	M							182	183	23349	0.0025	0.0025	0.0025	39	215		
29.4	29.6	UNK		Unknown	300	162.3	-57.7	MAG (nT) 56680	46.8	54.2	Moderate	Pervasive	CH		74.4	86.6	25	VEIN	29.6	33.5	FG/MG	MG in middle, grad FG at edge						controlled			23350	0.0025	0.0025	0.0025	0.5	4	
29.6	33.5	MD		Mafic Dyke	342	143.4	-55.8	MAG (nT) 57430	56.8	58.65	Moderate	Pervasive	CH		86.6	96.8	10	VEIN					119.1	121.3	DISS	CP			184	185	23351	0.0025	0.0025	0.0825	43	60	
33.5	44.6	LGAB		Leucogabbro					58.65	64.7	Moderate	Pervasive	CH		86.6	96.8	35	CT	33.5	44.6	M		146.2	148.5	DISS	CP			165.0	165	23352	0.028	0.074	0.069	36	113	
44.6	46.8	DD		Diabase Dyke					64.7	85.75	Moderate	Pervasive	CH		105	105.9	80	FOL	33.5	39	MG		167.3	178.2	DISS	PY			190.1	191	23353	0.014	0.039	0.013	17	246	
46.8	56.4	LGAB		Leucogabbro					65.75	70.2	Moderate	Pervasive	CH		111.85	112.85	60	CT	33.5	33.5	CM	at margins	167.3	178.2	DISS	PO			191	191.9	23354	0.4975	7.916	0.468	15	154	
56.4	58.65	GAB		Gabbro					70.2	74.4	Strong	Pervasive	CH		114.1	116	40	CT	39	44.6	CG	gradually coarser	176.3	182	DISS	PY	1	also local	192.7	193.4	23355	0.0025	0.075	0.019	149	133	
58.65	64.7	LGAB		Leucogabbro					71.2	72	Moderate	Patchy	BT		147.4	148.3	70	CT										215.4	216.1	23356	0.0025	0.044	0.021	57	415		
64.7	65.75	MGAB		Mafic Metagab					74.4	86.6	Moderate	Pervasive	CH		172.7	173.3	25	FOL				gradained	176.3	182	DISS	PO	0.5										
65.75	70.2	LGAB		Leucogabbro					105	105.9	Moderate	Pervasive	BT		172.7	173.3	5	FR				downhole	177.3	178.4	FRA	PO	1	small 2 mm fractures and foliation									
70.2	74.4	PXE		Pyroxenite					107.25	109.6	Moderate	Pervasive	CH		176.8	178	70	FOL	44.6	46.8	FG																
74.4	86.6	GAB		Gabbro					109.6	111.85	Strong	Pervasive	CH		178.5	178.5	60	FOL	44.6	46.8	M																
86.6	105	MD		Mafic Dyke					112.85	114.1	Strong	Pervasive	CH		180.55	180.7	30	VEIN	44.6	46.8	CM	one on either side	182	192.1	DISS	MT	1		182	192.1	DISS	PO					
105	105.9	GAB		Gabbro					114.1	118	Moderate	Pervasive	CH		169.65	190	20	SHZ																			
105.9	107.25	GAB		Gabbro					114.6	114.9	Strong	Patchy	SI		192	192.09	25	CT	46.8	54.2	CG		182	192.1	DISS	PY											
107.25	109.6	MGAB		Mafic Metagab					118	119.1	Moderate	Pervasive	CH		192.1	194.6	45	FOL	56.4	58.65	CG		182.1	194.6	DISS	MT	3										
109.6	111.85	PXE		Pyroxenite					119.1	121.3	Strong	Pervasive	CH		194.8	197.2	65	FOL	58.65	64.7	MG/CG	overall	215.4	218.1	FRA	PY											
111.85	112.85	LGAB		Leucogabbro					121.3	124	Strong	Pervasive	CH		197.2	208.5	45	FOL				progressively coarser	221.8	225.3	DISS	PY	1	diss and located in fractures									
112.85	114.1	PXE		Pyroxenite					124	124.7	Weak	Pervasive	CH		221.6	221.8	40	CT																			
114.1	116	MGAB		Mafic Metagab					124.7	126.7	Strong	Pervasive	CH		221.8	225.3	60	FOL																			
116	119.1	GAB		Gabbro					126.7	127.9	Strong	Pervasive	CH		236.3	236.5	20	FR	65.75	70.2	CG		221.8	225.3	DISS	CP	1	diss and located in fractures									
119.1	121	PXE		Pyroxenite					127.9	132	Strong	Pervasive	CH		237.8	238	50	FOL	70.2	74.4	MG/CG																
121.3	124	MGAB		Mafic Metagab					132	133.2	Strong	Pervasive	CH		243.8	243.8	45	CT	74.4	86.6	MG	locally variable															
124	124.7	MD		Mafic Dyke					133.2	139	Strong	Pervasive	CH		249	249	30	CT	86.6	96.8	M		227	228.9	DISS	PY											
124.7	126.7	MGAB		Mafic Metagab					139	147.4	Strong	Pervasive	CH		250.9	253.5	70	FOL	86.6	96.8	FG		227	228.9	DISS	CP											
126.7	127.9	PXE		Pyroxenite					148.3	149.2	Moderate	Pervasive	CH		257.8	259	10	VEIN	86.6	96.8	CM		236.4	238.6	DISS	CP		trace									
127.9	132	MGAB		Mafic Metagab					149.2	152.2	Moderate	Pervasive	CH		297.18	298.1	45	FR	106	105.9	FG		236.4	238.6	FRA	CP	1										
132	133.2	PXE		Pyroxenite					152.2	167.3	Strong	Pervasive	CH		313.9	314.23	75	FOL	105.9	107.25	VFG	possibly	243.1	244.8		PY		trace									
133.2	139	MGAB		Mafic Metagab					164	164.1	Moderate	Fract-Cont	SI	pink quartz vein	327.62	330.35	55	CT				chilled margin of MD above	243.1	244.8	DISS	CP		trace									
139	147.4	MGAB		Mafic Metagab										330.35	335.95	70	FOL					243.1	244.8	DISS	MT	2											
147.4	148.3	MD		Mafic Dyke					167.3	171.4	Moderate	Fract-Cont	CH		337.7	339.1	75	FOL	107.25	109.6	FG/MG		244.8	246.4	DISS	MT											
148.3	149.2	MGAB		Mafic Metagab					167.3	176.2	Moderate	Pervasive	CH		339.1	340.57	70	CT	107.25	109.6	M		250.9	253.5	DISS	PY											

Start Date: 28/Jan/08

Hole: HN-08-13

Southampton Ventures Inc.

Nothing: 6648821

Depth: 342 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303257

Elevation: 254.887m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: Iandry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
149.2	149.6	MD		Mafic Dyke				171.4	173.8	Moderate	Patchy	SI		339.1	340.57	65	FOL	109.6	111.85	FG/IMG	w CG chlor PXE	250.9	253.5	DISS	CP															
149.6	162.2	MGAB		Mafic Melagab				172.6	174.2	Weak	Patchy	A	Cum present	340.57	341.54	70	FOL	111.85	112.85	CM		253.5	255.5	DISS	PY		trace													
162.2	167.3	PXE		Pyroxenite										341.54	342	70	FOL	111.85	112.85	MG	Vein	257.6	258	DISS	CP	2														
167.3	176.2	MGAB		Mafic Melagab														112.85	114.1	M		269	274.9	DISS	CP		trace													
176.2	176.3	LC		Lost Core														112.85	114.1	FG/IMG		286	287.5	DISS	PO		trace, local													
176.3	182	GAB		Gabbrc														114.1	114.5	BC		294.2	297.0	DISS	CP	1														
182	192.1	DIA		Diorite				172.6	174	Moderate	Pervasive	BT	weaker downhole					114.1	116	M		294.2	297.0	BLB-DISS	PO	2														
192.1	194.6	PSAM		Meta-Psammite														114.1	116	FG		297.0	297.1	MASS	PY	25														
194.6	197.2	LGAB		Leucogabbro														115.4	115.9	BC		297.0	297.1	MASS	PO	70														
197.2	208.5	MGAB		Mafic Melagab														116	119.1	M		297.0	297.1	MASS	CP	5														
208.5	209.7	PXE		Pyroxenite														116	119.1	FG/IMG		297.1	298.1	BLB-DISS	PO	3	299-large													
209.7	217.1	MGAB		Mafic Melagab				172.7	173.3	Moderate	Fract-Cont	CH	local - complex fractures					119.1	121.3	M		297.1	298.1	DISS	CP	1	bieb													
217.1	221.8	GAB		Gabbrc														119.1	121.3	FG/IMG	with coarse Px	297.1	298.1	DISS	CP	1	locally													
221.8	225.3	MSED		Metasediment														121.3	124	M							fracture													
225.3	227	MGAB		Mafic Melagab				176.3	182	Moderate	Pervasive	CH						121.3	124	MG/CG							controlled													
227	228.9	PSAM		Meta-Psammite				177.3	178.4	Moderate	Patchy	BT						124	124.7	FG	FG biadly amphibole	298.1	302.9	DISS	PY	1														
228.9	230.25	PXE		Pyroxenite				177.3	178.4	Strong	Patchy	SI						124	124.7	VFG	to FG	298.1	302.9	DISS	PO	5	locally													
230.25	243.1	MGAB		Mafic Melagab				182	182.1	Moderate	Pervasive	CH						124	124.7	M		298.1	302.9	DISS	CP	1	interstitial													
243.1	244.8	GAB		Gabbrc				184	184.8	Strong	Pervasive	SI						124.7	126.7	M		298.1	302.9	DISS	CP	1														
244.8	246.4	MGAB		Mafic Melagab				189.65	190	Strong	Pervasive	BT						124.7	126.7	IMG	with local CG	302.9	308.8	DISS	PO	2														
246.4	249	MGAB		Mafic Melagab				189.65	190	Strong	Pervasive	CH									altered PX grains	302.9	308.8	DISS	CP	1														
249	250.9	MD		Mafic Dyke				192.1	194.6	Moderate	Pervasive	BT						126.7	127.9	IMG	with local CG	306.8	313.6	DISS	PY	1														
250.9	253.5	PSAM		Meta-Psammite				192.1	194.6	Strong	Pervasive	CH									altered PX grains	306.8	313.6	DISS	PO	1														
253.5	255.5	QGAB		Qtz bearing gabbro				194.6	197.2	Moderate	Pervasive	CH						126.7	127.9	M		306.8	313.6	DISS	CP	2	also local													
255.5	294.2	MGAB		Mafic Melagab				197.2	208.5	Weak	Pervasive	CH						127.9	132	MG	with local CG						small													
294.2	297.05	GAB		Gabbrc				208.5	209.7	Moderate	Pervasive	CH									altered PX grains						stringers													
297.05	297.18	MS		Massive Sulphide				209.7	217.1	Weak	Pervasive	CH						127.9	132	M		313.6	313.9	DISS	CP															
297.18	298.1	GAB		Gabbrc				216.2	217.1	Strong	Pervasive	BT						132	133.2	MG	with local CG	313.6	313.9	DISS	PO	4														
298.1	302.9	LGAB		Leucogabbro				217.1	221.8	Weak	Pervasive	CH									altered PX grains	313.9	314.2	DISS	CP	1														
302.9	306.85	GAB		Gabbrc				225.3	227	Weak	Pervasive	CH						132	133.2	M		313.9	314.2	ST	PO	1														
306.85	313.65	LGAB		Leucogabbro				227	228.9	Weak	Patchy	CH						133.2	139	M		313.9	314.2	ST	PY	3														
313.65	313.9	PSAM		Meta-Psammite				228.9	230.25	Weak	Patchy	A	local					133.2	139	FG/IMG	with local CG	314.2	314.3	SMASS	PY	5														
313.9	314.23	GAB		Gabbrc									secondary								altered Px grains	314.2	314.3	SMASS	CP	5														
314.23	324.3	PSAM		Meta-Psammite									amphibole (Hbl)					139	147.4	M		314.2	314.3	SMASS	PO	60														
324.3	325.75	MS		Massive Sulphide														139	147.4	FG/IMG	locally FG	314.2	324	DISS	PO															
325.75	326.6	PSAM		Meta-Psammite				228.9	230.25	Moderate	Pervasive	CH						147.4	148.3	FG		314.2	324	DISS	CP	1														

Start Date: 28/Jan/08

Hole: HN-08-13

Southampton Ventures Inc.

Nothing: 6648821

Depth: 342 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303267

Elevation: 254.887m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
326.6	327.62	MS		Massive Sulphide				230.25	243.1	Weak	Fract-Cont	CH						148.3	149.2	M	with local CG altered PX grains	319.7	320.6	FRA	PO	15	5 small													
327.62	330.35	PSAM		Meta-Psammitite				230.25	243.1	Moderate	Pervasive	CH																												
330.35	335.95	PSAM		Meta-Psammitite				242	243.1	Weak	Fract-Cont	BT						148.3	149.2	MG																				
335.95	336.3	PEL		Metapelite				243.1	244.8	Moderate	Pervasive	CH						149.2	149.6	VFG	with FG blady amphibole	319.7	320.6	FRA	PY		5 small													
336.3	337.09	QV		Quartz Vein				242.1	244.8	Weak		M	assoc with Qtz																											
337.09	337.7	PEL		Metapelite														149.6	162.2	MG	with local CG altered PX grains																			
337.7	339.1	PSAM		Meta-Psammitite				243.1	244.8	Strong	Patchy	SI																												
339.1	340.57	MVOL		Mafic Volcanic				244.8	246.4			M	with BT					149.6	162.2	M																				
340.57	341.54	PSAM		Meta-Psammitite				244.8	246.4	Weak	Pervasive	CH						162.2	167.3	M		319.7	320.6	FRA	CP	2	5 small													
341.54	342	PEL		Metapelite				244.8	246.4	Moderate	Patchy	BT	weaker downhole					162.2	167.3	MG	with local CG altered PX grains																			
								246.4	249	Weak	Pervasive	CH						167.3	176.2	M																				
								249	250.9	Weak	Pervasive	CH						167.3	176.2	MG	with local CG altered PX grains	321.5	323.4	ST	PY	1	local stringers (2 cm thick)													
								250.9	253.5	Moderate	Patchy	CH																												
								253.5	255.5	Strong	Patchy	M						167.9	168.3	BC	broken zone																			
								255.5	264.2	Weak	Fract-Cont	CH						176.3	180	FG		321.5	323.4	ST	PO	5	local stringers (2 cm thick)													
								255.5	264.2	Moderate	Pervasive	CH						176.3	182	M																				
								255.5	258	Weak	Patchy	BT						180	162	FG/MG	coarser downhole																			
								260.5	262.2	Weak	Patchy	M										321.5	323.4	ST	CP	1	local stringers (2 cm thick)													
								260.5	262.2	Weak	Patchy	BT						182	166	FG/MG																				
								264.2	297.05	Moderate	Pervasive	CH						182	192.1	M																				
								264.8	296	Weak	Patchy	BT						188	192.1	CM		323.6	324	SMASS	PY	1														
								297.18	298.1	Moderate	Pervasive	CH						188	192.1	VFG	progressively VFG as approaching contact	323.6	324	SMASS	PO	20														
								298.1	302.9	Moderate	Pervasive	CH										323.6	324	SMASS	CP	3														
								302.9	306.85	Moderate	Pervasive	CH										324.3	325.7	DISS	MT	2														
								306.85	313.85	Moderate	Pervasive	CH										324.3	325.7	MASS	CP	2														
								313.9	314.23	Moderate	Pervasive	CH						191	191.8	BC	drilling problems	324.3	325.7	MASS	PY		trace													
								325.75	326.6	Weak	Patchy	CH						192.1	194.6	CG	Bi-Chl bearing metapsammitite	324.3	325.7	MASS	PO	95	possible PENT													
								332.1	340.57	Strong	Pervasive	CH										325.7	326.6	DISS	PY	5	showing crystals faces													
																		194.6	197.2	MG																				
																		197	197.2	BC	core with strange shape																			
																		197.2	206.5	M	weak foliat on local 2-3 cm Px	325.7	326.6	DISS	PO	10														
																		197.2	206.5	MG/CG		325.7	326.6	DISS	CP	2														
																		208.5	209.7	M		326.6	326.8	MASS	CP	5														
																		208.5	209.7	CG		326.6	326.8	MASS	PY	35														

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays														
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm					
																		208.7	210.4	MG/CG		326.6	328.8	MASS	PO	35															
																			208.7	217.1	M		326.8	327.6	DISS	CP															
																			210.4	217.1	FG/IMG		326.8	327.6	SMASS	PO	25														
																			216.2	217.1	BC		327.2	327.3	MASS	PO	80														
																			217.1	221.8	M		327.6	328.7	DISS	PO	3	locally													
																			217.1	221.8	FG							fracture													
																			221.6	221.8	VFG							controlled													
																			221.6	221.8	CM		327.6	328.7	DISS	CP	7	locally													
																			221.8	225.3	FG/IMG	BT+Ath+Chl+Qtz+Pl						fracture													
																			225.3	227	POBL	FG Cum	329.7	330.3	ST	PO	2														
																			225.3	227	M		329.7	330.3	ST	PY	6														
																			225.3	227	FG/IMG	5-10% Px 2-3 mm in size	329.7	330.3	ST	CP	2														
																			227	228.9	POBL	local Ath, BT						aligned													
																			227	228.9	MG	grey to pink metapsammite Qtz-Fspar rich, local BT-Chl-Ath*						with foliation													
																			228.9	230.25	M																				
																			228.9	230.25	MG/CG																				
																			230.25	243.1	M																				
																			230.25	234.4	FG/IMG	with larger Px (2-3mm); Px larger on 231-235.6 matrix																			
																			234.4	235.6	FG																				
																			235.6	243.1	FG/IMG	with larger Px																			
																			243.1	244.8	M																				
																			244.8	246.4	FG																				
																			244.8	246.4	M																				
																			246.4	249	FG/IMG	with large Px (2-3mm)																			
																			246.4	249	M																				
																			249	250	VFG																				

Start Date: 28/Jan/08	Hole: HN-08-13	Southampton Ventures Inc.	Nothing: 6648821	Depth: 342 m
Completion Date: 30/Jan/08	Project: SV-HDN	<i>Diamond Core Log Sheet</i>	Easting: 303257	Elevation: 254.887m
Azimuth: 124	Property: Horden Lake		Projection: UTM NAD83 Zone 18N Hole Diameter: NQ	
Dip: -60	Logged By: landry		Supervisor: []	
Survey Method: Flexit	Date: 26/04/2008	Storage Location: Horden Lake		

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
																		250	250.9	FG	prpg coarser doehole																			
																			250.9	253.5	MG																			
																			253.5	255.5	MG																			
																			253.5	255.5	M																			
																			255.5	266	FG/MG																			
																			255.5	294.2	M																			
																			266	279	MG/CG																			
																			279	280.9	CG	wel xtalized PH-Px																		
																			280.9	294.2	MG/CG	large Px (<1-2cm), matrix MG																		
																			294.2	297.05	MG/CG	locally wel crystallized																		
																			294.2	297.05	M																			
																			297.18	298.1	M																			
																			297.18	298.1	MG/CG																			
																			298.1	302.9	MG																			
																			298.1	302.9	M																			
																			302.9	306.85	M																			
																			302.9	306.85	MG																			
																			306.85	313.65	M																			
																			313.9	314.23	FG																			
																			314.23	324	MG																			
																			314.23	324	M																			
																			324.3	325.75	M																			
																			325.75	326.6	M																			
																			325.75	326.6	MG																			
																			327.62	330.35	M																			
																			327.62	330.35	FG																			
																			330.35	335.95	FG/MG																			
																			331.3	331.7	BC																			
																			335.95	336.3	BC																			
																			336.95	336.3	FG/MG																			
																			337.09	337.7	FG																			

Start Date: 28/Jan/08

Hole: HN-08-14

Southampton Ventures Inc.

Northing: 5648821

Depth: 368 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303257

Elevation: 254.931 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
274.7	281.65	MGAB		Mafic Metagab				185.3	187.7	Moderate	Pervasive	SI						101.9	108.7	FG/MG		338.2	340.9	DISS	CP	2														
281.65	282.8	PSAM		Meta-Psammite				187.7	192.8	Weak	Pervasive	SI						108.7	109.15	FG		338.4	338.5	MASS	PO	90														
282.8	289.5	MGAB		Mafic Metagab				187.7	188.2	Strong	Patchy	SI	highly silicified zone					109.15	112.2	FG		340.4	340.4	MASS	PO	90														
289.5	324.1	GAB		Gabbro														112.2	112.55	FG/MG		340.8	340.9	SMASS	CP	20														
324.1	331.35	MGAB		Mafic Metagab														112.55	117.75	MG/CG		340.9	341.6	BLB	PO	2	one minor stringer													
331.35	339.2	GAB		Gabbro				188.75	192.8	Moderate	Pervasive	CH						112.55	117.75	M																				
339.2	340.9	MTVOL		Metavolcanic				188.75	189.7	Strong	Patchy	SI	highly silicified zone					117.75	118.9	FG	Qtz-Fpar metasediment, minor Bt (5%)	340.9	341.6	BLB	CP	2	one minor stringer													
340.9	341.6	PSAM		Meta-Psammite																																				
341.6	343.15	MSED		Metasediment																																				
343.15	343.6	MS		Massive Sulphide				192.55	192.7	Strong	Patchy	SI						118.9	123.7	MG		341.6	343.1	BLB-DISS	PO	10														
343.6	361.35	PEL		Metapelite				192.8	194	Moderate	Patchy	SI						123.7	125.5	M		342.5	343.1	BLB	PY	2														
361.35	362.45	QV		Quartz Vein				192.8	195	Moderate	Pervasive	CH						123.7	125.5	MG/CG		343.1	343.6	FRA	CP	2														
362.45	363.15	MVOL		Mafic Volcanic				194	195	Weak	Pervasive	SI						125.5	148.1	M		343.1	343.6	MASS	PO	90														
363.15	368	MSED		Metasediment				195	195.35	Strong	Pervasive	CH						125.5	148.1	POIK	large poik Px, local (5% of total unit)*	343.7	343.8	DISS	CP	1														
								195.35	195.8	Weak	Pervasive	SI									locally MGAB	344.7	345.5	DISS	MT	1														
								195.35	195.8	Moderate	Pervasive	CH						125.5	148.1	CG	locally MGAB	344.7	345.5	DISS	MT	1														
								195.8	196.5	Moderate	Pervasive	CH						148.1	158.15	POIK	local poik Px, 2-3 cm in size, 5% of unit*	358.5	360	BLB-DISS	PY	5														
								196.5	198	Moderate	Patchy	CH																												
								196.5	198	Moderate	Pervasive	SI	local qtz veins/patches																											
								198	242.2	Weak	Pervasive	CH						148.1	158.15	M																				
								228	229	Strong	Patchy	FLD						148.1	158.15	MG/CG	CG Px, MG Pl*																			
								230.15	230.55	Strong	Patchy	FLD						158.15	159.1	M																				
								234.9	235.35	Moderate	Pervasive	CH						158.15	168.36	M																				
								242	242.2	Moderate	Pervasive	BT						158.15	168.36	MG																				
								242.2	244.8	Moderate	Pervasive	SI						168.35	185.3	M																				
								244.8	252.6	Weak	Pervasive	SI						168.35	172	MG/CG																				
								244.8	245	Moderate	Pervasive	BT						172	177.9	CG																				
								244.8	252.6	Weak	Pervasive	CH						177.9	185.3	MG/CG																				
								252	252.6	Weak	Patchy	SI						185.3	187.7	M																				
								252	252.6	Weak	Pervasive	BT						185.3	187.7	MG	local CG Px																			
								252	252.6	Weak	Pervasive	BT						187.7	192.8	MG	local cg px																			
								255.4	256.65	Weak	Pervasive	BT						192.8	195.35	POIK																				
								255.4	258.9	Weak	Pervasive	SI						192.8	195.35	MG/CG																				
								255.4	258.9	Weak	Pervasive	CH																												

Start Date: 28/Jan/08

Hole: HN-08-14

Southampton Ventures Inc.

Nothing: 6648821

Depth: 368 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303267

Elevation: 254.931m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays														
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm					
								258.7	258.9	Weak	Pervasive	BT						195.35	195.8	MG	similar to																				
								258.9	261.05	Weak	Patchy	CH									previous																				
								261.05	274.7	Weak	Pervasive	SI									gabro,																				
								261.05	274.7	Weak	Pervasive	CH									intruded into																				
								276.7	281.65	Weak	Pervasive	CH									MGAB"																				
								276.7	276.7	Strong	Patchy	SI	minor fracture control					196.8	196.5	POIK	3 cm poikiloblasts, 10% of unit																				
								277.4	278.7	Moderate	Pervasive	BT						195.8	196.5	M																					
								282.2	281.65	Moderate	Patchy	SI						195.8	196.5	MG/CG	'mg plag. cg px'																				
								282.2	281.65	Moderate	Patchy	BT						196.5	196	FG																					
								281.65	282.8	Weak	Fract-Cont	SI						198	224	MG																					
								281.65	282.8	Weak	Patchy	CH						218.6	224.9	M																					
								282.8	289.5	Moderate	Patchy	SI						224	224.9	CG																					
								282.8	289.5	Moderate	Pervasive	CH						224.9	234.9	FG	sharp change																				
								284.4	285.5	Strong	Pervasive	SI						234.9	235.35	MG/CG																					
								284.4	285.5	Moderate	Pervasive	BT						235.35	237.5	FG																					
								285.5	307.2	Weak	Patchy	SI	local					237.5	238.1	FG/MG																					
								285.5	324.1	Weak	Pervasive	CH						238	240.5	M																					
								324.1	331.35	Weak	Pervasive	CH						238.1	240.5	CG																					
								327.9	331.35	Weak	Patchy	BT						240.5	242.2	FG	sharp change																				
								331.35	339.2	Weak	Patchy	BT						242.2	244.8	M	weak fol																				
								331.35	339.2	Moderate	Pervasive	CH						242.2	244.8	MG/CG	Qtz-Fpar rich, recrystallized																				
								338	339.2	Moderate	Pervasive	SI									metasediment"																				
								339.2	340.9	Moderate	Patchy	BT																													
								339.2	340.9	Moderate	Patchy	CH						244.8	246	MG																					
								341.6	343.15	Weak	Fract-Cont	CA						252.6	256.4	FG	metapsammite, minor Bt, Chl																				
								341.6	343.15	Moderate	Patchy	CH																													
								342.5	343.15	Moderate	Patchy	E						256.4	258.9	FG/MG																					
								343.6	361.35	Weak	Fract-Cont	SI						258.9	261.05	FG/MG																					
								343.6	361.35	Weak	Fract-Cont	CA	local					261.05	263.3	FG/MG																					
								343.6	361.35	Weak	Patchy	CH						263.3	264.9	MG																					
								361.35	362.45	Strong	Fract-Cont	SI						264.9	266.6	MG/CG																					
								362.45	363.15	Strong	Pervasive	CH						266.6	271.85	MG																					
								363.15	368	Weak	Patchy	CH						270	273	M																					
																		271.85	273	MG/CG																					

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization					Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
0	18	CAS		Casing	27	135.8	-69.3	MAG (NT) 57040	35.11	35.51	Moderate	Pervasive	SI	quartz	64.37	86.55	35	VEIN	18	64.37	CG	pyroxenes,	33.35	33.45	Vein	CV	5	'Unknown'	115	116	23697	0.009	0.017	0.017	59	157			
18	64.37	GAB		Gabbro	84	141	-69	MAG (NT) 56720						veins	88.9	108.13	50	FOL				felsic filling						dark gray	116	117	23698	0.028	0.052	0.047	416	777			
64.37	86.55	MGAB		"melagabbro, var meta"	135	144.3	-69.7	MAG (NT) 56440						associated	93.3	94.23	45	F				matrix, more						magnetite	117	118	23699	0.012	0.03	0.049	205	696			
86.55	86.9	PGNE		Gneiss	192	144.6	-69.6	MAG (NT) 57680						with	108.9	109	45	VEIN				intense near						like mineral"			23700	0.0025	0.0025	0.0025	0.5	3			
86.9	108.13	MGAB		"melagabbro, var meta"										chalcopyrit	109.08	115.96	22	VEIN				veins and	64.37	86.55	DISS	CP	1		118	119	23701	0.008	0.009	0.037	105	1110			
108.13	109.08	PGNE		Gneiss										e	133.79	133.93	80	VEIN				fractures"	64.37	86.55	DISS	PY	1		119	120	23702	0.013	0.014	0.031	97	678			
109.08	115.96	QGAB		Qtz bearing gneiss					35.11	35.51	Strong	Pervasive	CH	very	135	139.35	60	FOL	64.37	86.55	MG/CG								0.0025	0.00375	23	27							
115.96	125.18	PSAM		Meta-Psammitic										pervasive,	139.35	146.64	60	VEIN	86.55	86.9	FG/IMG	fair amount of	86.55	86.9	DISS	PY	1		121	122	23704	0.006	0.0025	0.016	20	190			
125.18	131.96	LGAB		"leucogabbro, var meta"										mostly	139.35	147.65	10	VEIN				Musc (5-10%)	88.9	105.4	DISS	CP	1		122	122.5	23705	0.001	0.01	0.075	49	870			
131.96	134	PSAM		Meta-Psammitic										along	147.87	153.31	45	FOL	108.13	108.9	FG								122.5	123	23706	0.003	0.021	0.069	48	825			
134	135	LGAB		"leucogabbro, var meta"										mm size	162.42	166.91	45	VEIN	109.08	115.96	FG/IMG	med grain in	108.0	115.9	FRA	PY	2		123	124	23707	0.015	0.016	0.1	43	1000			
135	139.35	LGAB		"leucogabbro, var meta"										white	166.91	169.86	40	VEIN				mid section and	108.0	115.9	FRA	CP	3	some py	124	125	23708	0.041	0.042	0.205	416	2790			
139.35	147.87	DIA		Diabase										veins and	169.86	176	40	FOL				finer in silica					released	125	126	23709	0.031	0.036	0.029	176	346				
147.87	153.31	GAB		Gabbro										surroundin	170.1	170.15	45	VEIN				alteration zone	115.9	125.1	FRA	PO	3	fracture			23710	0.0005	0.0025	0.0025	0.5	3			
153.31	154.4	MGAB		"melagabbro, var meta"										g silica	180.83	182.87	60	FOL	115.96	125.18	FG	Silt to sandstone					filled along	126	127	23711	0.023	0.067	0.022	626	962				
154.4	162.42	PXE		metapyroxenite										altered	182.87	183.73	55	FOL	131.96	154	FG					foliation	127	128	23712	0.041	0.046	0.023	396	636					
162.42	166.91	MGAB		"melagabbro, var meta"										zone"	183.73	186.64	50	FOL	134	135	MG/CG	fine grained	115.9	125.1	FRA	PY	1	fracture											
166.91	169.86	PXE		metapyroxenite					53.73	64.37	Moderate	Fract-Cont.	CH	more	187.36	192	55	FOL				silica matrix					filled along												
169.86	176	GAB		Gabbro										concentrat					135	139.35	CG	tiger like texture					foliation												
176	180.83	MS		Massive Sulphide										ed along					139.35	147.85	FG/IMG					fracture													
180.83	182.87	PSAM		Meta-Psammitic										veins and					139.35	139.75	CM					filled along													
182.87	183.73	MS		Massive Sulphide										fractures					147.87	153.31	MG	slightly finer					foliation												
183.73	186.64	PSAM		Meta-Psammitic					53.73	64.37	Strong	Pervasive	SI	whole								grained near	131.9	132.5	DISS	PO	3												
186.64	187.36	MTVOL		Metavolcanic										interval								diabase contact	131.9	132.5	DISS	CP	2												
187.36	192	SSH		Metased-Schists										has					153.31	164.4	CG	crn size	132.5	132.7	FRA	PO	15												
														pervasive								pyroxene crystal	132.5	132.7	FRA	CP	5												
														to patchy								patchy texture	132.7	133.5	BLB-DISS	PO	3												
														alteration								but massive	132.7	133.5	DISS	CP	2												
									64.37	86.55	Moderate	Patchy	SI	interstitial						154.4	166	M					PO	30											
									66.55	88.9	Strong	Pervasive	SI							158	162.42	FG					CP	5											
									88.9	105.49	Moderate	Patchy	SI	- patchy near 99 - 103m						158	162.42	B	intense silica	134	135	BLB-DISS	PY	1											
																						alteration: light gray"	134	135	BLB-DISS	PO	1												
																							134	135	BLB-DISS	CP	2												
																						patchy texture	135	136.3	DISS	PY	2												
																						but massive	135	136.3	DISS	PO	3												
																							135	136.3	DISS	CP	5												

Start Date: 28/Jan/08	Hole: HN-08-15	Southampton Ventures Inc. <i>Diamond Core Log Sheet</i>	Nothing: 6646844	Depth: 192 m
Completion Date: 30/Jan/08	Project: SV-HDN		Easting: 303490	Elevation: 254.703m
Azimuth: 124	Property: Horden Lake		Projection: UTM NAD83 Zone 18N Hole Diameter: NQ	
Dip: -70	Logged By: landry		Supervisor: []	
Survey Method: Flexit	Date: 25/04/2008	Storage Location: Horden Lake		

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
								109.08	115.96	Strong	Patchy	SI	intensifies along contacts					162.42	166.91	CG	crim size pyroxene crystal	147.8	153.3	BLB-DISS	PO	4	irregular												
																		166.9'	169.86	M		147.8	153.3	BLB-DISS	CP	3	irregular												
								109.08	115.96	Strong	Pervasive	SI	qtz gabbro					166.9'	169.86	FG/MG		153.3	154.4	BLB-DISS	PO	2													
								115.96	117	Moderate	Fract-Cont	BT	mixed zone					169.86	176	MG	finer at upper contact	153.3	154.4	BLB-DISS	PY	3													
								131.96	134	Strong	Patchy	SI	Breccia like					176	180.83	B		154.4	159	FRA	PY	2													
								134	136	Strong	Pervasive	SI	gray rock texture along									154.4	159	FRA	CP	2													
								139.35	147.65	Strong	Fract-Cont	SI	along veinlets									162.4	169.9	BLB-DISS	PO	3	irregular												
													some									162.4	169.9	BLB-DISS	PY	2	irregular												
								153.31	154.4	Weak	Patchy	BT	pyroxene alter to Bt									162.4	169.9	BLB-DISS	CP	3	irregular												
													some					180.83	182.87	FG		166.9	169.8	FRA	PO	2	sometimes blebby												
								154.4	158	Weak	Patchy	SI	"Light green in some places					182.87	183.73	B		166.9	169.8	FRA	CP	2	sometimes blebby												
													more					183.73	186.64	FG		166.9	169.8	FRA	PY	3	sometimes blebby												
													intense					186.64	187.36	FG		166.9	169.8	FRA	PY	3	sometimes blebby												
													toward end of interval"					187.36	192	FG/MG		169.8	176	BLB-DISS	PY	1													
													breccia									169.8	176	BLB-DISS	CP	3													
								158	162.42	Strong	Pervasive	SI	jigsaw breccia									176	180.8	SMASS	PY	5	small 5cm sulphide filled fracture												
													"along same mm									176	180.8	SMASS	CP	10													
													veins, rare"									176	180.8	SMASS	PO	65													
													slight									180.8	182.8	ST	PO	6	less at start of interval												
													silicificatio n									180.8	182.8	ST	CP	4	along foliation												
													silica alteration									180.8	182.8	ST	PY	5	along foliation												
								173.32	173.66	Strong	Fract-Cont	SI	halo around qtz vein.									182.8	183.7	SMASS	PY	8													

Start Date: 28/Jan/08

Hole: HN-08-16

Southampton Ventures Inc.

Nothing: 6646886

Depth: 254 m

Compleat on Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803410

Elevation: 255.188 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: Ian Dry

Supervisor: [redacted]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
0	19.1	CAS		Casing	102	135.5	-59.1	MAG (nT) 66570	30.38	30.9	Moderate	Fract-Cont	SI	interval	28.28	28.34	55	VEIN	19.1	36.79	M		28.28	28.34	Vein	CP	55	along 5cm	30.3	30.8	24103	0.008	0.0025	0.008	316	29
19.1	36.79	PXE		metaptyroxenite	201	138.6	-58.7	MAG (nT) 66550						is blocky	30.38	30.9	1	VEIN	19.1	36.79	MG/CG						Qtz vein	37	38.2	24104	0.015	0.008	0.0025	84	333	
36.79	38.2	GAB		Gabbro	254	333.7	-57.8	MAG (nT) 49510	30.38	30.9	Moderate	Fract-Cont	K	interval	62.47	67.54	35	FZ	36.79	38.2	M		36.79	38.2	DISS	PY	0.5		103.2	104	24105	0.0025	0.0025	0.0025	133	34
38.2	62.47	PXE		metaptyroxenite										is blocky	68	69	10	F	36.79	38.2	FG	very hard	67.54	81	DISS	MT	0.5	very weakly	124	124.5	24106	0.0025	0.0025	0.0025	150	14
62.47	67.54	MGAB		"melagabbro, var. meta"					36.5	36.6	Weak	Fract-Cont	SI	small	81	83.69	35	F	38.2	62.47	MG/CG		81	83.69	DISS	MT	0.5	very weak	127.2	128.2	24107	0.007	0.012	0.0025	232	438
67.54	81	PXE		metaptyroxenite										veinlets	83.69	101.44	30	FR	41.38	43.43	BC	fault zone?	127.5	128.5	DISS	PY	1	155.5	157	24108	0.009	0.0025	0.029	86	280	
81	83.69	MGAB		"melagabbro, var. meta"					38.2	39.75	Weak	Fract-Cont	CA	interval	101.44	157.74	40	FR				some Ca	127.5	128.5	DISS	CP	1	157	158	24109	0.008	0.005	0.009	56	196	
83.69	101.44	PXE		metaptyroxenite					38.2	39.75	Moderate	Fract-Cont	SI	interval	101.44	157.74	50	VEIN				fracture filling	158.5	170.9	DISS	CP	1	157	158	24110	0.132	0.132	0.048	21050	8930	
101.44	170.94	QGAB		Qtz bearing gabbro					101.44	157.74	Strong	Pervasive	SI	blebby	119.64	119.64	5	FZ	43.43	62.47	M		158.5	170.9	DISS	PY	1	158	159	24111	0.012	0.009	0.025	80	519	
170.94	173	GAB		Gabbro										qtz gabbro	124	125	20	FR	62.47	67.54	M		170.9	173	DISS	MT	1	mod to very	159	160	24112	0.012	0.015	0.0025	140	55
173	181.11	DIA		Diabase					103.2	103.91	Moderate	Fract-Cont	CH	interval	124	124.14	1	FR	62.47	67.54	MG/CG		173	181.1	DISS	MT	1	mod to very	160	161	24113	0.0025	0.0025	0.0025	92	32
181.11	189.71	GAB		Gabbro					103.2	103.91	Moderate	Fract-Cont	K	interval	127.2	127.8	5	F	67.54	81	MG/CG		181.1	182	FRA	PY	2	with Tm	161	162	24114	0.0025	0.0025	0.012	50	541
189.71	201.42	DIA		Diabase					103.2	103.91	Weak	Fract-Cont	CA	interval	136.35	136.45	45	VEIN	67.54	81	M		181.1	182	FRA	CP	1	with Tm	162	163	24115	0.0025	0.0025	0.01	141	778
201.42	232.19	MGAB		"melagabbro, var. meta"					103.2	103.91	Strong	Fract-Cont	SI	interval	144.31	144.67	7	VEIN	81	83.69	M		181.1	182	FRA	PO	3	with Tm	163	164	24116	0.0025	0.0025	0.0025	30	95
232.19	239.84	PXE		metaptyroxenite					155.5	162.32	Strong	Pervasive	SI	associate	154	154.15	5	VEIN	81	83.69	MG/CG		181.1	189.7	DISS	MT	1	mod to very	164	165	24117	0.0025	0.0025	0.014	101	646
239.84	241.45	MS		Massive Sulphide										with Et	170.3	170.94	1	VEIN	83.69	101.44	M		182	186.7	BLB-DISS	PY	1		165	166.5	24118	0.0025	0.0025	0.0025	93	347
241.45	244.5	GAB		Gabbro										and	190	201.41	50	VEIN	83.69	101.44	MG		182	186.7	BLB-DISS	PO	1		165.5	167	24119	0.0025	0.0025	0.0025	85	248
244.5	250.46	PSAM		Meta-Psammitite										acicular	190	201.42	37	VEIN	101.44	157.74	MG	very silicified	182	186.7	BLB-DISS	CP	1		166	167	24120	0.905	7.919	0.498	1380	1350
250.46	251.44	PSAM		Meta-Psammitite										min (light purple)	194.75	194.85	45	VEIN	189.7	201.4	DISS	most s amorphous	189.7	201.4	DISS	MT	1	mod to very	167	168	24121	0.0025	0.0025	0.0025	87	197
251.44	251.77	MS		Massive Sulphide										product	215	219	10	FR	170.94	173	M		201.4	232.1	BLB-DISS	PY	2		168	169	24122	0.0025	0.0025	0.0025	54	184
251.77	252.32	PSAM		Meta-Psammitite					155.5	162.32	Weak	Fract-Cont	BT	product	217.5	218	50	VEIN	170.94	173	FG/IMG		201.4	232.1	BLB-DISS	CP	1		169	170	24123	0.029	0.034	0.088	363.5	1835.5
252.32	253	MVOL		Mafic Volcanic										of	232.19	239.84	45	VEIN	173	181.11	M		201.4	232.1	BLB-DISS	PO	2		170	171	24124	0.014	0.009	0.012	61	132
253	255.5	PSAM		Meta-Psammitite										previous minerals	245.1	245.3	50	FR	173	181.11	FG/IMG		217.5	218	Vein	CP	2		171	172	24125	0.015	0.007	0.0025	67	121
															253	255.5	90	BD	181.11	189.71	M		217.5	218	Vein	PO	1		172	173	24126	0.017	0.008	0.0025	77	78
									170	170.94	Strong	Pervasive	SI						181.11	186.77	MG		217.5	218	Vein	ILM	2		181	182	24127	0.0025	0.0025	0.0025	71	51
									172.44	173	Moderate	Pervasive	SI	acicular					186.77	189.71	FG	mm size Bt nodules (used to be Pyx?)	220	220.5	SMASS	PY	20		182	183	24128	0.039	0.097	0.167	320	6250
														min (little purple)								with zirconium	220	220.5	SMASS	CP	2		183	184	24129	0.021	0.015	0.03	58	351
																						min present	232.1	239.8	BLB-DISS	PY	3		184	185	24131	0.06	0.1015	0.032	523	691
														associated with Si veins + Ca and min.									232.1	239.8	BLB-DISS	PO	3		185	186	24132	0.074	0.108	0.1	579	1590
																							189.71	201.42	M	CP	1		186	187	24133	0.015	0.034	0.027	233	485
																							189.71	201.42	FG/IMG	PY	4		187	188	24134	0.023	0.052	0.015	504	434
																							201.42	232.19	M	CP	6		188	189	24135	0.03	0.0545	0.038	498	705
																							201.42	232.19	MG	PO	80		188	189	24136	0.02	0.079	0.074	1360	1170
																							232.19	239.84	M	PY	15		189	199	24137	0.048	0.07	0.028	619	688
																							232.19	239.84	MG			semi-massive to stringers	199	200	24138	0.0025	0.006	0.0025	84	100

Start Date: 28/Jan/08

Hole: HN-08-16

Southampton Ventures Inc.

Nothing: 6648896

Depth: 254 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303410

Elevation: 255.186 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
								226.5	228.3	Strong	Patchy	BT	crumbly					238.84	241.45	M		241.4	244.5	SMASS	CP	4	semi-massiv	201.5	202	24139	0.023	0.043	0.035	328	590
								237.5	239.84	Moderate	Fract-Cont	SI	spar + qtz ± Ca					238.84	241.45	VFG		241.4	244.5	SMASS	PO	40	e to stringers	202	203	24140	0.5006	7.9115	0.4965	1630	1400
																		241.45	244.5	M		241.4	244.5	SMASS	PO	40	semi-massiv	202	203	24141	0.026	0.082	0.038	383	953
																		241.45	244.5	FG/MG	almost completely replaced	241.4	244.5	SMASS	PO	40	e to stringers	203	204	24142	0.014	0.043	0.08	406	1100
																		244.5	250.4	DISS	MT	3	varies	204	205	24143	0.025	0.046	0.044	422	1140				
																		244.5	250.4	SMASS	PY	15	semi-massiv e to stringers	205	205	24144	0.028	0.052	0.063	419	1100				
																		244.5	250.46	M		244.5	250.4	SMASS	CP	4	semi-massiv e to stringers	206	207	24145	0.027	0.06	0.053	264	770
																		244.5	250.46	FG/MG	almost completely replaced	244.5	250.4	SMASS	CP	4	semi-massiv e to stringers	207	208	24146	0.016	0.035	0.061	239	965
																		244.5	250.4	SMASS	PO	40	semi-massiv e to stringers	208	209	24147	0.024	0.085	0.244	187	1570				
																		244.5	250.4	SMASS	PO	40	semi-massiv e to stringers	209	210	24148	0.008	0.021	0.065	116	485				
																		251.44	251.77	FG		244.5	250.4	SMASS	PO	40	semi-massiv e to stringers	210	211	24149	0.007	0.027	0.034	326	720
																		251.44	251.77	M		250.4	251.4	DISS	PY	2		211	212	24150	0.113	0.138	0.064	20950	8720
																		252.32	253	FG		250.4	251.4	DISS	CP	1		212	213	24151	0.041	0.121	0.055	1280	2170
																		252.32	253	M	blocky along bedding	250.4	251.4	DISS	PO	2		212	213	24152	0.037	0.085	0.125	863	2850
																		251.4	251.7	MASS		251.4	251.7	MASS	PY	4		213	214	24153	0.043	0.073	0.154	812	2510
																		253	255.5	BC	"med blocky core, breaks along bedding"	251.4	251.7	MASS	CP	3		214	215	24154	0.047	0.105	0.078	958	2940
																		251.4	251.7	MASS		251.4	251.7	MASS	PO	60		215	216	24155	0.019	0.03	0.038	147	445
																		252.3	252.4	FRA		252.3	252.4	FRA	PO	1		216	217	24156	0.035	0.03	0.039	220	480
																		253	255.5	FG		252.3	252.4	FRA	PY	3		217	218	24157	0.0315	0.0396	0.0665	217	590
																		218	219	24158	0.06	0.091	0.21	503	1550										
																		219	220	24159	0.039	0.038	0.13	283	946										
																		220	220.5	24160	0.11	0.137	0.057	20350	8750										
																		220.5	221	24161	0.104	0.354	0.246	2360	3670										
																		221	222	24162	0.077	0.408	0.161	4540	6510										
																		222	223	24163	0.007	0.031	0.017	236	396										
																		222	223	24164	0.032	0.079	0.097	510	1190										
																		223	224	24165	0.0025	0.007	0.0025	90	137										
																		224	225	24166	0.031	0.065	0.115	490	1600										
																		225	226	24167	0.052	0.162	0.068	1060	1590										
																		226	227	24168	0.037	0.065	0.027	609	699										
																		227	228	24169	0.04	0.079	0.035	1060	1070										
																		227	228	24170	0.4925	7.9635	0.4985	1500	1450										
																		228	229	24171	0.043	0.168	0.239	1610	4930										
																		229	230	24172	0.037	0.124	0.169	1510	4200										
																		230	231	24173	0.053	0.2036	0.059	1240	2940										
																		231	232	24174	0.068	0.236	0.019	1330	4140										

Start Date: 28/Jan/08	Hole: HN-08-16	Southampton Ventures Inc.	Nothing: 6648896	Depth: 254 m
Completion Date: 30/Jan/08	Project: SV-HDN	<i>Diamond Core Log Sheet</i>	Easting: 803410	Elevation: 255.186 m
Azimuth: 124	Property: Horden Lake		Projection: UTM NAD83 Zone 18N Hole Diameter: NQ	
Dip: -60	Logged By: landry		Supervisor: []	
Survey Method: Flexit	Date: 25/04/2008	Storage Location: Horden Lake		

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays																							
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm														
																																									252.3	253	24211	0.032	0.029	0.113	281	5230		
																																										253	254	24212	0.0025	0.007	0.008	28	101	
																																											254	255	24213	0.0025	0.0025	0.0025	69	432

Southampton Ventures Inc.

Start Date: 28/Jan/08 Hole: HN-08-17 Nothing: 5648896 Depth: 300 m
 Completion Date: 30/Jan/08 Project: SV-HDN Diamond Core Log Sheet Easting: 303410 Elevation: 255 064 m
 Azimuth: 124 Property: Horden Lake Projection: UTM NAD83 Zone 18N Hole Diameter: NQ
 Dip: -70 Logged By: landry Supervisor: []
 Survey Method: Flexit Date: 25/04/2008 Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays														
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm					
																		263.9	265.69	M		271.9	276.1	BLB-DISS	CP	3	Also	219	220	25096	0.011	0.016	0.055	178	675						
																		265.69	267.48	MG		271.9	276.1	BLB-DISS	PO	5	stringers	220	221	25097	0.037	0.084	0.233	579	2750						
																		265.69	267.48	M		271.9	276.1	BLB-DISS	PO	5	Also	221	222	25098	0.021	0.023	0.051	216	510						
																		267.48	271.9	M		271.9	276.1	BLB-DISS	PO	5	stringers	222	223	25099	0.043	0.085	0.339	854	1800						
																		271.9	275	MG		276.1	277.4	ST	PY	1	High	25100	0.109	0.139	0.0625	21650	7520								
																		271.9	275	M		276.1	277.4	ST	PY	1	density	223	224	25155	0.038	0.059	0.094	630	1470						
																		277.47	296.62	MG		276.1	277.4	ST	PY	1	network of	232	233	25156	0.075	0.101	0.102	1400	1990						
																		281	263.5	POBL	CRD	276.1	277.4	ST	CP	4	stringers	233	234	25157	0.094	0.125	0.161	1420	2310						
																						276.1	277.4	ST	CP	4	High	234	235	25158	0.075	0.106	0.069	1160	1300						
																		291.45	281.6	POBL	porphyroblasts, cr"	276.1	277.4	ST	CP	4	density	235	236	25159	0.071	0.109	0.167	1170	3670						
																						276.1	277.4	ST	PO	30	network of	236	237	25160	0.0025	0.0025	0.0025	2	8						
																		296.62	296.85	FG	GRT	276.1	277.4	ST	PO	30	stringers	238	237	25161	0.078	0.128	0.123	1750	4060						
																		297.16	299.2	FG	porphyroblasts, cr"	276.1	277.4	ST	PO	30	High	237	238	25162	0.069	0.114	0.065	1620	4260						
																						277.4	280	ST	PY	1	density	238	239	25163	0.092	0.109	0.051	1640	1020						
																						277.4	280	ST	PY	1	network of	239	240	25164	0.044	0.076	0.13	773	1561						
																						277.4	280	ST	PY	1	stringers	240	241	25165	0.062	0.144	0.295	1700	2820						
																						277.4	280	ST	PY	1	High	241	242	25166	0.026	0.068	0.118	977	1280						
																						277.4	280	ST	PY	1	density	242	243	25167	0.036	0.112	0.169	1190	1790						
																						277.4	280	ST	PY	1	network of	243	244	25168	0.159	0.281	0.2445	1920	2590						
																						277.4	280	ST	CP	4	stringers	244	245	25169	0.052	0.139	0.227	1160	2340						
																						277.4	280	ST	CP	4	High	245	246	25170	0.5125	6.0125	0.4875	1530	1450						
																						280.0	280.2	DISS	MT	2	density	245	245	25171	0.109	0.216	0.228	1370	2190						
																						280.0	280.2	MASS	ILM	30	network of	246	247	25172	0.051	0.1106	0.1675	760	1780						
																						280.2	280.6	BLB-DISS	PY	0.5	stringers	247	248	25173	0.046	0.099	0.169	749	1550						
																						280.2	280.6	BLB-DISS	CP	2.5															
																						280.2	280.6	BLB-DISS	PO	6	density														

Start Date: 28/Jan/08	Hole: HN-08-18	Southampton Ventures Inc.	Nothing: 6646947	Depth: 383 m
Completion Date: 30/Jan/08	Project: SV-HDN	<i>Diamond Core Log Sheet</i>	Easting: 3033329	Elevation: 255.629m
Azimuth: 124	Property: Horden Lake		Projection: UTM NAD83 Zone 18N	Hole Diameter: NQ
Dip: -60	Logged By: landry		Supervisor: [REDACTED]	
Survey Method: Flexit	Date: 25/04/2008	Storage Location: Horden Lake		

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
374.7	376.16	PEG		Pegmatite										316	316.15	40	DYKE	226.78	231.27	M		332.0	339.0	FRA	CP	2	and	252	253	25821	0.0165	0.0235	0.0175	25	369			
376.16	378.3	MVOL		Mafic Volcanic										316.6	316.65	50	FZ	226.78	231.27	FG							bleb-dissem	253	254	25822	0.007	0.0025	0.005	17	187			
378.3	382.27	PSAM		Meta-Psammitic										316.72	316.82	53	DYKE	231.27	231.98	MG							No SU in	254	255	25823	0.012	0.0025	0.028	15	899			
382.27	384.8	PEG		Pegmatite										317.3	317.4	27	F	231.98	237.77	MG	MG-CG						QTZ veins.	255	255	25824	0.0025	0.0025	0.025	12	734			
384.8	390.56	PSAM		Meta-Psammitic										319.05	319.06	87	FR	242.45	242.52	M	feldspar vein	332.0	339.0	FRA	PO	4	and	256	257	25825	0.007	0.007	0.009	98	215			
390.56	395	QV		Quartz Vein										320.05	320.22	45	FR	242.45	242.52	CG	feldspar vein						bleb-dissem	257	258	25826	0.008	0.0025	0.018	19	-57			
														320.39	320.4	88	FR	242.52	259.49	MG							No SU in	258	259	25827	0.013	0.01	0.181	94	186			
														322.28	322.38	30	FR	259.49	272.07	M							QTZ veins.	259	260	25828	0.01	0.007	0.018	43	79			
														322.75	324.6	45	FR	259.49	272.07	CG		364.8	365.6	DISS	MT	5	1 mm	260	261	25829	0.026	0.025	0.095	128	752			
														332.02	355.07	75	FOL	272.07	272.35	MG							black	261	261	25830	0.0025	0.0025	0.0025	0.5	3			
														332.02	337	53	FR	272.35	280.23	M	mostly massive						crystals	261	262	25831	0.026	0.025	0.091	296	1150			
														335.75	335.88	65	VEIN	272.35	311.65	MG	mostly MG-CG	373.1	374.7	DISS	MT	5	1 mm	262	263	25832	0.038	0.056	0.155	465	1930			
														338.35	338.84	70	VEIN	311.65	312.06	MG							black	263	264	25833	0.0605	0.1265	0.13	890	1260			
														355.59	363.87	65	FOL	312.06	322.61	M							crystals	264	265	25834	0.034	0.048	0.018	155	129			
														364.85	365.68	75	FOL	312.06	322.61	MG		378.9	379.9	FRA	PY	1	py?	265	265	25835	0.038	0.089	0.028	278	280			
														365.68	373.13	68	FOL	326.43	326.6	M								266	267	25836	0.021	0.038	0.074	137	654			
														373.13	374.7	50	FOL	326.6	332.02	M								267	268	25837	0.028	0.048	0.154	202	1970			
														376.16	378.3	30	FOL	326.6	332.02	MG	MG-CG							268	269	25838	0.028	0.059	0.128	234	1450			
														377.14	377.23	42	VEIN	332.02	355.07	FG								269	270	25839	0.026	0.051	0.061	490	571			
														378.3	382.27	68	FOL	355.07	355.59	PEG									270	271	25840	0.0195	0.025	0.011	303	304		
														378.73	378.83	50	VEIN	355.59	363.87	FG									271	272	25842	0.013	0.011	0.015	95	156		
														384.8	390.56	78	FOL	364.85	365.68	FG									272	273	25843	0.021	0.015	0.024	85	293		
																													273	274	25844	0.015	0.009	0.057	64	391		
																													274	275	25845	0.016	0.025	0.033	166	365		
																													275	276	25846	0.026	0.05	0.04	217	482		
																													276	277	25847	0.014	0.024	0.024	84	290		
																													277	278	25848	0.014	0.022	0.037	215	454		
																													278	279	25849	0.015	0.029	0.028	209	516		
																														279	280	25850	0.099	0.132	0.045	23400	8290	
																														280	281	25851	0.009	0.024	0.033	166	598	
																														281	282	25852	0.015	0.029	0.03	143	313	
																															282	283	25853	0.021	0.065	0.042	682	1120
																															283	284	25854	0.013	0.029	0.036	173	506
																															284	284	25855	0.007	0.019	0.022	106	245
																															284	285	25856	0.024	0.054	0.067	386	1210

Start Date: 28/Jan/08

Hole: HN-08-18

Southampton Ventures Inc.

Nothing: 5646947

Depth: 393 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303329

Elevation: 255.629m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
																															285	285	25857	0.068	0.166	0.1065	852	2250
																															286	287	25868	0.013	0.014	0.02	51	166
																														287	288	25859	0.009	0.031	0.025	255	587	
																																25860	0.0025	0.0025	0.0025	0.5	6	
																														288	289	25861	0.009	0.027	0.05	268	879	
																														289	290	25862	0.016	0.054	0.045	419	890	
																														290	291	25863	0.013	0.044	0.035	258	581	
																														291	292	25864	0.028	0.091	0.108	667	1250	
																														292	293	25865	0.02	0.083	0.04	746	966	
																														293	294	25866	0.025	0.106	0.112	920	1830	
																														294	295	25867	0.027	0.116	0.048	1220	2140	
																														295	295	25868	0.015	0.031	0.038	184	379	
																														296	297	25869	0.0105	0.041	0.0915	81	509	
																															25870	0.519	7.9855	0.4875	1460	1440		
																														297	298	25871	0.019	0.028	0.048	176	385	
																														298	299	25872	0.017	0.053	0.031	585	1120	
																														299	300	25873	0.033	0.124	0.07	1230	3120	
																														300	301	25874	0.017	0.039	0.045	417	730	
																														301	302	25875	0.052	0.103	0.072	1280	2520	
																														302	303	25876	0.029	0.083	0.053	899	1240	
																														303	304	25877	0.032	0.09	0.115	634	2470	
																														304	305	25878	0.051	0.123	0.077	1200	1130	
																														305	305	25879	0.069	0.279	0.0655	3380	1770	
																															25880	0.0025	0.0025	0.0025	2	4		
																														306	307	25881	0.06	0.1196	0.108	1220	2890	
																														307	308	25882	0.045	0.098	0.205	1040	2240	
																														308	309	25883	0.09	0.043	0.125	344	960	
																														309	310	25884	0.038	0.089	0.11	1070	1600	
																														310	311	25885	0.055	0.136	0.133	1560	2270	
																														311	312.0	25886	0.07	0.172	0.122	2960	3050	
																														312.0	313	25887	0.032	0.068	0.071	914	482.5	
																														313	314	25888	0.038	0.086	0.104	790	845	
																														314	315	25889	0.036	0.067	0.066	782	1770	
																															25890	0.0025	0.0025	0.0025	1520	1480		
																														315	315	25891	0.016	0.0336	0.016	344	682	
																														316	317	25892	0.031	0.09	0.06	952	1480	

Start Date: 28/Jan/08

Hole: HN-08-18

Southampton Ventures Inc.

Northing: 6646947

Depth: 383 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303329

Elevation: 255.629m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration					Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
																															317	318	25893	0.074	0.242	0.263	1060	2010
																															318	319	25894	0.127	0.377	0.24	1990	2340
																														319	320	25895	0.078	0.346	0.245	2470	4990	
																														320	321	25896	0.051	0.16	0.173	1040	2220	
																														321	322	25897	0.065	0.167	0.187	1190	1820	
																														322	323	25898	0.064	0.216	0.371	1680	4950	
																														323	324	25899	0.069	0.19	0.04	1540	1330	
																																25900	0.098	0.14	0.053	23500	8310	
																														324	325	25901	0.0686	0.1915	0.5045	1220	2170	
																														325	326	25902	0.05	0.247	0.059	1650	1790	
																														326	326.4	25903	0.039	0.226	0.057	1160	2320	
																														326.4	327	25904	0.034	0.304	0.044	4330	3600	
																														327	328	25905	0.027	0.154	0.04	2140	3170	
																														328	329	25906	0.023	0.087	0.033	1360	3200	
																														329	330	25907	0.039	0.134	0.017	869	2486.5	
																														330	331	25908	0.025	0.092	0.035	1470	2510	
																														331	332	25909	0.016	0.082	0.022	1260	2220	
																																25910	0.0025	0.0025	0.0025	3	10	
																														332	333	25911	0.01	0.13	0.071	1610	8120	
																														333	334	25912	0.008	0.05	0.067	1120	3780	
																														334	335	25913	0.0406	0.065	0.172	825	3330	
																														335	336	25914	0.022	0.044	0.129	1070	4270	
																														336	337	25915	0.033	0.038	0.024	467	1570	
																														337	338	25916	0.0025	0.016	0.039	401	2950	
																														338	339	25917	0.011	0.05	0.037	1020	5630	
																														339	340	25918	0.0025	0.0025	0.0025	480	516	
																														340	341	25919	0.0025	0.0025	0.0025	9	26	
																																25920	0.4885	7.911	0.491	1330	1280	
																														341	342	25921	0.0025	0.0025	0.0025	8	6	
																														342	343	25922	0.0025	0.0025	0.0025	9	20	
																														343	344	25923	0.0025	0.0025	0.016	14	130	
																														344	345	25924	0.009	0.0025	0.011	6	30	
																														345	346	25925	0.0025	0.0025	0.0025	6	75	
																														346	347	25926	0.0025	0.0025	0.0025	3	9	
																														347	348	25927	0.0165	0.033	0.012	19	8	
																														348	349	25928	0.099	0.007	0.0025	26	104	

Start Date: 28/Jan/08

Hole: HN-08-18

Southampton Ventures Inc.

Nothing: 6646947

Depth: 393 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303329

Elevation: 255.629m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
																															349	350	25929	0.0025	0.0025	0.0025	10	4
																																25930	0.0025	0.0025	0.0025	0.5	3	
																															350	351	25931	0.012	0.007	0.008	82	170
																															351	352	25932	0.008	0.0025	0.0025	8	240
																															352	353	25933	0.0025	0.0025	0.023	9	636
																															353	354	25934	0.014	0.009	0.034	17	790
																															354	355	25935	0.006	0.0025	0.025	29	54
																															378.5	379	25936	0.0025	0.0025	0.017	12	30
																															390.5	391	25937	0.012	0.0025	0.014	7	6
																															391	392	25938	0.01	0.0025	0.013	7	5
																															392	393	25939	0.0025	0.0025	0.014	11	5
																															25940	0.5235	7.927	0.4865	1530	1410		
																															393	394	25941	0.01	0.0025	0.006	12	7
																															394	395	25942	0.009	0.0025	0.0025	7	3

Start Date: 28/Jan/08

Hole: HN-08-19

Southampton Ventures Inc.

Nothing: 5646947

Depth: 411 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303329

Elevation: 255.660m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
								363.16	365.2	Moderate	Pervasive	CH						221.43	246	MG		363.3	361.5	ST	PY	20	and	365	365	28073	0.036	0.089	0.007	172	170		
								365.2	365.6	Strong	Pervasive	CH						246	246.55	FG							disseminate	366	367	28074	0.0025	0.0025	0.0025	41	82		
								365.4	399.62	Moderate	Pervasive	BT	strong where mineralise d					246.55	247.65	CG	MG-CG						d	367	368	28075	0.0025	0.0025	0.0025	13	20		
																		247.65	261.62	M		361.5	361.9	BLB-DISS	CP	2		368	369	28076	0.0025	0.0025	0.0025	79	153		
																		247.65	261.62	MG		361.5	361.9	ST	PO	10		369	370	28077	0.0025	0.0025	0.0025	9	161		
																		261.62	267.75	MG		361.5	361.9	MASS	PY	73		371	372	28078	0.0025	0.0025	0.0025	8	25		
								385.4	399.62	Moderate	Pervasive	CH	strong where mineralise d					267.75	268.47	M		361.9	362.6	BLB-DISS	CP	8		373	374	28079	0.0025	0.0025	0.0025	77	217		
																		267.75	267.87	B		361.9	362.6	ST	PY	10		374	375	28081	0.0025	0.0025	0.0025	20	29		
																		267.87	268.47	FG		361.9	362.6	ST	PO	20	ST-Clast	375	375	28082	0.018	0.026	0.011	12	43		
																		268.47	266.86	MG		362.6	363.1	SMASS	PY	20		376	377	28083	0.0025	0.0025	0.0025	45	203		
																		268.86	272.28	M		362.6	363.1	SMASS	PO	15		379.8	380.6	28084	0.0025	0.0025	0.0025	5	8		
																		268.86	269.2	B		362.6	363.1	ST	CP	5		392	393	28085	0.0025	0.0025	0.0025	32	560		
																		269.2	272.28	FG		363.1	365.2	DISS	PO	2		394	395	28086	0.0025	0.0025	0.0025	27	202		
																		272.28	273.03	M		363.1	365.2	DISS	PY	2											
																		272.28	273.03	MG		380.2	380.4	ST	PY	3											
																		273.03	273.56	MG		380.2	360.4	ST	PO	5											
																		273.56	274.4	M		385.4	399.6	BLB-DISS	CP		traces										
																		274.4	274.82	MG	FG-MG	385.4	399.6	BLB-DISS	PO		traces										
																		274.82	293.8	M		385.4	399.6	BLB-DISS	PY		traces										
																		274.82	275.06	FG																	
																		274.82	275.06	CM																	
																		275.06	282.7	MG	like MG Gabbro																
																		292.7	293.8	FG																	
																		292.7	293.8	CM																	
																		293.8	297.66	M																	
																		293.8	297.66	MG	MG-CG																
																		297.66	299.3	M																	
																		297.66	296.78	FG																	
																		298.78	299.3	B																	
																		299.3	299.7	MG																	
																		299.7	300.1	MG																	
																		300.1	305.51	M																	
																		300.1	305.51	CG																	
																		305.51	307.5	M																	
																		305.51	307.5	CG																	

Start Date: 28/Jan/08

Hole: HN-08-20

Southampton Ventures Inc.

Northing: 6648820

Depth: 123 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303629

Elevation: 254.000m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -45

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays																										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm																	
93.75	96.49	MS			Massive sulphide										84	84.35	40	FR																																			
																			93.75	96.49	M								90.71	93.75	SMASS	PY	1																				
																													90.71	93.75	SMASS	CP	4																				
																													90.71	93.75	SMASS	PO	13																				
																													93.75	96.49	MASS	PY	3																				
																													93.75	96.49	MASS	CP	12																				
																													93.75	96.49	MASS	PO	50																				
96.49	106.7	PEL		Metapelite											96.49	106.7	88	FOL										96.49	106.7	BLB-DISS	PY																						
																													96.49	106.7	BLB-DISS	CP																					
																													96.49	106.7	BLB-DISS	PO																					
																													97.24	97.38	MASS	PY	4																				
																													97.24	97.38	MASS	CP	1																				
106.7	109.28	MVOL		Mafic Volcanic											106.7	109.28	77	FOL										106.7	109.2	MASS	PO	90																					
109.28	123	PEL		Metapelite											109.28	123	75	FOL																																			
																																26270	0.504	8.027	0.463	1530	1570																

Start Date: 28/Jan/08

Hole: HN-08-21

Southampton Ventures Inc.

Northing: 5648821

Depth: 150 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303527

Elevation: 254.051 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays																
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm							
0	15.55	CAS		Casing	102	136.4	-69.1	MAG (NT) 56770	33	55.14	Moderate	Pervasive	SI		15.55	28.39	35	VEIN	15.55	28.39	M		28.68	55.14	BLB-DISS	CP	2	-fracture related	96	98	24856	0.019	0.075	0.101	713	1590							
15.55	28.39	MGAB		"melagaboro, var. meta"					59	60.83	Moderate	Patchy	A		15.55	28.39	57	FR	15.55	28.39	MG/CG																						
28.39	28.68	QV		Quartz Vein					67.51	68.75	Strong	Pervasive	SI	Bleached gabbroic dyke	28.68	30.5	54	FOL	28.39	28.68	M		28.68	55.14	BLB-DISS	PY	2																
28.68	55.14	MGAB		"melagaboro, var. meta"										55.14	87	55	FOL	28.68	35.5	MG/CG		28.68	55.14	BLB-DISS	PO	2																	
55.14	87	QTZE		Quartzite										55.14	87	33	VEIN	35.5	55.14	MG		55.14	87		MT	2																	
87	96.73	MGAB		"melagaboro, var. meta"					96.73	103.52	Moderate	Fract-Cont	CA		87	96.73	58	FOL	35.5	55.14	M		55.14	87		CP	1																
96.73	103.52	MSED		Metasediment					103.52	109.5	Weak	Fract-Cont	CA		96.73	103.52	55	VEIN	55.14	74	FG		55.14	87		PY	2																
103.52	109.5	GAB		Gabbro					113.7	120.4	Weak	Fract-Cont	CA		103.52	109.5	39	VEIN	87	96.73	MG		55.14	87		PO	1.5																
109.5	113.7	MS		Massive Sulphide					120.4	121.36	Strong	Fract-Cont	CA		113.7	120.4	56	STRI	96.73	103.52	FG		58.7	59	FRA	PY	5																
113.7	120.4	IVOL		Intermed Volcanic					121.36	130.28	Weak	Fract-Cont	E	with Ca	121.36	130.28	55	FOL	103.52	109.5	M		58.7	59	FRA	PO	20																
120.4	121.36	MS		Massive Sulphide					121.36	130.28	Strong	Fract-Cont	CA	ca vein	121.36	130.28	54	VEIN	103.52	109.5	MG		63.25	64.24		PY	3																
121.36	130.28	PSAM		Mela-Psammitic										(slight yellow)	130.28	134	53	VEIN	109.5	113.7	FG		63.25	64.24		PO	4																
130.28	134	MD		Mafic Dyke										134	150	52	FOL	113.7	120.4	FG	light green	63.95	64.24	Vein	CP	7	associated with Qtz vein																
134	150	SSH		Melased-Schists															120.4	121.36	FG					CP	0.5																
																			121.36	130.28	FG		87	96.73	BLB-DISS	CP	2																
																			130.28	134	FG/MG		87	96.73	BLB-DISS	PY	2																
									130.28	134	Moderate	Fract-Cont	CA						134	150	FG		87	96.73	BLB-DISS	PO	1.5																
									144.75	145	Moderate	Fract-Cont	CA	only in fracture									91.5	92	ST	PY	7																
																							91.5	92	ST	PO	13																
																							96.73	103.5	DISS	CP	1																
																							96.73	103.5	DISS	PY	1																
																							96.73	103.5	BLB-DISS	PO	2																
																							103.5	109.5	DISS	PY	1																
																							103.5	109.5	PAT	PO	6																
																							109.5	113.7	DISS	MT	1																
																							109.5	113.7	DISS	ILM	1																
																							109.5	113.7	BLB-DISS	CP	6																
																							109.5	113.7	SMASS	PY	9																
																							109.5	113.7	SMASS	PO	65	massive patches throughout interval															
																							113.7	120.4	ST	CP	10																
																							113.7	120.4	BLB-DISS	PY	9																
																							113.7	120.4	ST	PO	30																
																							120.4	121.3	BLB-DISS	PY	8																

Start Date: 28/Jan/08

Hole: HN-08-23

Southampton Ventures Inc.

Nothing: 6648939

Depth: 243 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803439

Elevation: 255.309m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: Ian Dry

Supervisor: [Redacted]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
218.5	219.08	MS		Massive sulphide				142.33	145.18	Moderate	Pervasive	CH		240.55	241.85		BTT	166.65	174.6	PEG		196.8	215.5	DISS	CP	0.5				28360	0.0025	0.0025	0.0025	0.5	4			
219.08	220.88	PSAM		Meta-Psammite				145.18	148.08	Moderate	Fract-Cont	CH		241.85	242.33		VEIN	174.6	177.38	M		196.8	215.5	BLB-DISS	PO	1		227	228	28361	0.017	0.542	0.058	7630	18200			
220.88	223	QTZE		Quartzite				148.37	151.68	Moderate	Fract-Cont	CH		241.85	242.33		FR	174.6	177.38	PEG		196.8	215.5	BLB-DISS	PY	0.5		228	228.8	28362	0.0025	0.027	0.032	284	1810			
223	223.68	PSAM		Meta-Psammite				151.68	156.05	Moderate	Fract-Cont	CH		242.33	242.5		FR	177.38	178.64	M		196.8	215.5	BLB-DISS	MT	2		228.8	229.7	28363	0.0025	0.0025	0.005	45	137			
223.68	224.19	MTVOL		Metavolcanic				156.05	161.81	Moderate	Fract-Cont	CH		242.5	243.25	70	SCHS	177.38	178.64	CG		196.5	198.7	BLB-DISS	CP	2		229.7	230.2	28364	0.0025	0.0025	0.018	16	133			
224.19	225.92	PSAM		Meta-Psammite				156.05	161.81	Strong	Patchy	SI		242.5	243.25	70	FOL	178.64	178.64	M		196.5	198.7	BLB-DISS	PO	8		230.2	231	28365	0.0025	0.0025	0.01	13	14			
225.92	230.27	MS		Massive sulphide				161.81	162.95	Moderate	Fract-Cont	CH						178.64	178.82	PEG		196.5	198.7	ST	PY	20		231	232	28366	0.0025	0.0025	0.008	30	615			
230.27	232.07	PSAM		Meta-Psammite				161.81	162.95	Strong	Patchy	SI						178.82	179.05	M		196.1	199.3	BLB-DISS	CP	2		232	233	28367	0.00375	0.0025	0.00425	26	448			
232.07	236.1	SSH		Metased-Schists				162.95	165.38	Moderate	Fract-Cont	CH						178.82	179.05	CG		196.1	199.3	ST	PO	5		233	234	28368	0.0025	0.0025	0.0025	7	3			
236.1	238.25	PSAM		Meta-Psammite				165.38	166.85	Moderate	Pervasive	CH						179.05	185.53	M		206.0	208.3	ST	PO	5		234	235	28369	0.0055	0.0025	0.0025	7	8			
238.25	240.1	PEL		Metapelite				166.85	190.24	Moderate	Pervasive	CH						179.05	185.53	PEG		206.0	208.3	BLB-DISS	CP	2		235	236	28370	0.52	8.017	0.5	1640	1350			
240.1	240.55	SSH		Metased-Schists				190.24	190.86	Moderate	Pervasive	BT						185.53	185.76	M		206.6	208.8	BLB-DISS	CP	5		236	236	28371	0.008	0.016	0.0025	7	3			
240.55	241.85	PEL		Metapelite				190.86	190.86	Strong	Pervasive	CH						185.76	185.76	CG		206.6	208.8	BLB-DISS	PO	15		236	237	28372	0.007	0.0025	0.009	9	2			
241.85	242.33	QV		Quartz Vein				192.38	192.38	Strong	Pervasive	CH						185.76	187.55	M		208.2	208.3	BLB-DISS	CP	5		237	238	28373	0.005	0.0025	0.0025	5	3			
242.33	242.5	PEG		Pegmatite				192.38	192.95	Moderate	Pervasive	BT						187.55	187.55	PEG		208.2	208.3	BLB-DISS	PO	15		238	239	28374	0.008	0.0025	0.0025	8	148			
242.5	243.25	PEL		Metapelite				192.95	195.42	Moderate	Pervasive	CH	weak to moderate					187.55	187.87	M		215.5	218.5	FRA	PY	3		239	240	28375	0.0025	0.0025	0.0025	7	12			
												moderate						187.87	187.87	CG		215.5	218.5	FRA	CP	5		240	241	28376	0.0025	0.0025	0.0025	7	24			
												weak to moderate						187.87	189.55	M		215.5	218.5	FRA	PO	5		241.8	242.3	28377	0.005	0.0025	0.0025	11	5			
																		189.55	189.55	PEG		216.5	218.5	BLB-DISS	CP	5		242.3	242.5	28378	0.007	0.0025	0.0025	9	152			
								195.42	196.87	Moderate	Fract-Cont	CH						189.55	193.3	FG		216.5	218.5	BLB-DISS	PO	5												
								196.87	215.5	Weak	Fract-Cont	BT	weak to moderate					193.3	194.2	FG		218.5	218.0	BLB-DISS	PY	7												
																		194.2	195.42	FG		218.5	218.0	BLB-DISS	CP	3												
								196.87	215.5	Moderate	Fract-Cont	CH						195.42	196.87	FG		218.5	218.0	MASS	PO	70												
								215.5	218.5	Moderate	Fract-Cont	CH						196.87	215.5	FG	FG to MG	219.0	220.8	BLB-DISS	CP	1												
								218.5	218.5	Moderate	Pervasive	BT	Moderate to strong					215.5	216.5	M		219.0	220.8	FRA	PY	2												
												Moderate to strong						215.5	216.5	CG		219.0	220.8	DISS	MT	3												
								218.5	218.5	Moderate	Pervasive	CH	Moderate to strong					216.5	216.5	MG	MG to CG	220.8	223	DISS	MT	2												
																		218.5	219.08	M		220.8	223	BLB-DISS	PY	1												
								218.5	219.08	Strong	Fract-Cont	CH						218.5	219.08	B		223	223.6	BLB-DISS	PY	1												
								219.08	220.88	Moderate	Fract-Cont	CH						219.08	220.88	M		223	223.6	DISS	MT	3												
								220.88	223	Moderate	Fract-Cont	CH						219.08	220.88	FG	Very FG to FG	223.6	224.1	BLB-DISS	PY	0.2												
								223	223.68	Moderate	Pervasive	CH	moderate to strong					220.88	223	M		224.1	228.9	DISS	MT	3												
													moderate to strong					220.88	223	FG		226.6	228.9	PY	8													
								224.19	228.92	Moderate	Pervasive	CH	moderate to strong					223	223.68	FG		226.6	228.9	ST	CP	10												
								228.92	230.27	Strong	Pervasive	CH	to strong					223.68	224.19	FG		226.6	228.9	ST	PO	30												

Start Date: 28/Jan/08

Hole: HN-08-24

Southampton Ventures Inc.

Northing: 5646939

Depth: 282 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303438

Elevation: 255.361 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
274.81	274.97	PEG		Pegmatite														262.45	262.73	MG		222.4	224.5	FRA	PY	3	also as	213	214	25037	0.017	0.029	0.005	323	742
274.97	275.17	PSAM		Meta-Psammite														262.73	262.85	M							bleb-disseminated	214	215	25038	0.034	0.032	0.012	1250	1720
275.17	277.27	PEG		Pegmatite														262.85	263.76	MG								215	216	25039	0.033	0.031	0.021	1100	1970
277.27	282	PSAM		Meta-Psammite														263.76	264.18	M		244.7	245.5	DISS	MT	2		216	217	25040	0.504	8.0025	0.4885	1420	1410
																		264.18	270	MG		251.1	259.9	DISS	MT	3		216	217	25041	0.047	0.066	0.01	839	823
																		272.47	273.2	FG		259.9	261.3	MASS	PY	1		217	218	25042	0.016	0.015	0.009	153	266
																		273.2	274.35	PEG		259.9	261.3	MASS	CP	9		218	219	25043	0.022	0.006	0.01	61	217
																		274.35	274.81	FG		259.9	261.3	MASS	PO	80		219	220	25044	0.011	0.00375	0.0225	57	147
																		274.81	274.97	PEG		261.3	261.7	SMASS	PY	1		220	221	25045	0.012	0.009	0.035	56	314
																		274.97	275.17	FG		261.3	261.7	SMASS	CP	9		221	222	25046	0.011	0.008	0.011	65	217
																		275.17	277.27	PEG		261.3	261.7	SMASS	PO	30		222	223	25047	0.036	0.059	0.007	827	1090
																		277.27	282	FG		261.7	262.1	DISS	CP	2		223	224	25048	0.025	0.027	0.044	170	776
																		262.1	262.4	MASS		262.1	262.4	MASS	CP	8		224	225	25049	0.036	0.049	0.099	295	1530
																		262.1	262.4	MASS		262.1	262.4	MASS	PO	82		225	226	25050	0.112	0.16	0.057	20900	8460
																		262.4	262.7	ST		262.4	262.7	ST	CP	5		225	226	25051	0.035	0.035	0.045	202	1040
																		262.4	262.7	ST		262.4	262.7	ST	PO	3		226	227	25052	0.011	0.019	0.017	125	588
																		262.7	262.8	MASS		262.7	262.8	MASS	CP	7		227	228	25101	0.021	0.04	0.03	195	826
																		262.7	262.8	MASS		262.7	262.8	MASS	PO	88		228	229	25102	0.022	0.028	0.029	81	284
																		263.7	264.1	MASS		263.7	264.1	MASS	CP	7		229	230	25103	0.024	0.007	0.039	97	454
																		263.7	264.1	MASS		263.7	264.1	MASS	PO	88		230	231	25104	0.019	0.0025	0.055	70	234
																		264.7	265	BLB-DISS		264.7	265	BLB-DISS	CP	4		231	232	25105	0.0025	0.0025	0.0025	8	4
																		264.7	265	BLB-DISS		264.7	265	BLB-DISS	PO	4		232	233	25106	0.0025	0.0025	0.0025	9	23
																		267.7	267.7	DISS		267.7	267.7	DISS	MT	5		233	234	25107	0.0025	0.0025	0.0025	12	66
																												234	235	25108	0.0025	0.0025	0.0025	7	139
																												235	236	25109	0.01	0.008	0.009	24	36
																												236	237	25110	0.0025	0.0025	0.0025	12	15
																												237	238	25111	0.008	0.0025	0.037	31	156
																												238	239	25112	0.0025	0.0025	0.0025	12	84
																												239	239	25113	0.0025	0.0025	0.0025	12	29
																												240	240	25114	0.0025	0.0025	0.0025	14	23
																												240	241	25115	0.048	0.078	0.465	84	3140
																												241	242	25116	0.019	0.023	0.051	51	365
																												242	243	25117	0.013	0.016	0.071	25	478
																												243	244	25118	0.006	0.006	0.009	66	141
																												244	245	25119	0.014	0.005	0.005	31	149
																												244	245	25120	0.504	8.0645	0.4685	1550	1460

Southampton Ventures Inc.

Diamond Core Log Sheet

Start Date: 28/Jan/08

Hole: HN-08-24

Nothing: 6646939

Depth: 282 m

Completion Date: 30/Jan/08

Project: SV-HDN

Easting: 303438

Elevation: 255.381m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [Signature]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays														
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm					
																															245	246	25121	0.01	0.0025	0.009	31	81			
																															246	247	25122	0.008	0.0025	0.007	19	43			
																															247	248	25123	0.007	0.0025	0.006	11	31			
																															248	249	25124	0.0025	0.0025	0.005	24	27			
																															249	250	25125	0.0025	0.0025	0.017	36	86			
																															250	251	25126	0.011	0.012	0.014	64	168			
																															251	252	25127	0.0025	0.007	0.009	50	59			
																															252	253	25128	0.0025	0.0025	0.0135	26	5			
																															253	254	25129	0.0025	0.0025	0.008	30	22			
																																253	254	25130	0.0025	0.0025	0.0025	0.5	4		
																															254	255	25131	0.011	0.007	0.024	34	64			
																															255	255	25132	0.012	0.006	0.011	26	35			
																															256	257	25133	0.014	0.007	0.009	29	18			
																															257	258	25134	0.012	0.005	0.01	36	17			
																															258	259	25135	0.009	0.007	0.009	36	22			
																															259	259	25136	0.013	0.006	0.013	27	168			
																															259	259	25137	0.006	0.015	0.007	67	1466.5			
																															261	262	25138	0.067	0.283	0.124	4150	42300			
																															262	1	262	8	25139	0.046	0.267	0.08	3940	8460	
																																	262	8	25140	0.462	7.944	0.501	1550	1450	
																															262	8	263	7	25141	0.015	0.036	0.014	367	2050	
																															263	7	264	1	25142	0.062	0.268	0.036	8550	22700	
																															264	1	265	5	25143	0.018	0.018	0.009	182	482	
																															265	5	267	25144	0.0105	0.007	0.0075	11	30		
																															267	268	25145	0.0025	0.0025	0.0025	25	114			
																															268	269	25146	0.0025	0.0025	0.0025	23	21			
																															269	270	25147	0.0025	0.0025	0.0025	12	7			
																															270	271	25148	0.0025	0.0025	0.0025	17	22			
																															271	272	25149	0.0025	0.0025	0.0025	8	6			
																																	271	272	25150	0.092	0.14	0.052	21300	8670	
																															272	273	2	25151	0.0025	0.0025	0.0025	168	203		
																															273	2	274	3	25152	0.0025	0.0025	0.0025	16	31	
																															274	3	275	1	25153	0.0025	0.0025	0.0025	21	75	
																															275	1	276	25154	0.0025	0.009	0.0025	12	5		
																																		60	61	25943	0.0025	0.0025	0.0025	452	106
																																		61	62	25944	0.0025	0.012	0.0025	473	73

Start Date: 28/Jan/08

Hole: HN-08-24

Southampton Ventures Inc.

Nothing: 6646939

Depth: 282 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303438

Elevation: 255.361m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
																													62	63	25945	0.0025	0.0025	0.0025	454	52
																													63	64	25946	0.0025	0.0025	0.0025	413	34
																													127	127.5	25947	0.0025	0.0025	0.0025	171	9
																													133	134	25948	0.085	0.376	1.473	2730	5610
																													134	135	25949	0.015	0.009	0.032	124	94
																															25950	0.097	0.138	0.058	21150	8580
																													135	135	25951	0.009	0.0105	0.06	237	1100
																													136	137	25952	0.011	0.013	0.005	79	19
																													137	138	25953	0.007	0.008	0.0025	69	21
																													138	139	25954	0.007	0.013	0.0025	113	19
																													139	140	25955	0.008	0.0025	0.0025	97	43
																													140	141	25956	0.01	0.021	0.0025	90	7
																													141	142	25957	0.009	0.005	0.01	108	1010
																													142	143	25958	0.024	0.008	0.0025	100	66
																													143	144	25959	0.007	0.005	0.005	66	144
																															25960	0.0025	0.0025	0.0025	0.5	4
																													144	145	25961	0.0025	0.006	0.008	46	169
																													145	146	25962	0.005	0.01	0.01	55	161
																													146	147	25963	0.00375	0.0106	0.00375	72	12
																													147	148	25964	0.005	0.0025	0.0025	28	7
																													148	149	25965	0.0025	0.0025	0.0025	41	88
																													149	150	25966	0.011	0.013	0.012	101	303
																													150	151	25967	0.039	0.037	0.027	199	825
																													151	152	25968	0.042	0.053	0.04	176	953
																													152	153	25969	0.016	0.016	0.024	80	376
																															25970	0.492	7.302	0.5	1620	1510
																													153	154	25971	0.024	0.041	0.011	43	194
																													154	155	25972	0.017	0.035	0.051	31	16
																													155	156	25973	0.036	0.054	0.013	53	133
																													156	157	25974	0.014	0.028	0.013	117	229
																													157	158	25975	0.021	0.034	0.011	120	144
																													158	159	25976	0.0145	0.035	0.008	177	168
																													159	160	25977	0.01	0.025	0.007	178	143
																													160	161	25978	0.012	0.024	0.01	167	153
																													161	162	25979	0.016	0.024	0.014	276	201
																															25980	0.0025	0.0025	0.0025	0.5	3

Start Date: 28/Jan/08

Hole: HN-08-24

Southampton Ventures Inc.

Nothing: 6646939

Depth: 282 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Eastng: 303438

Elevation: 255.361m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays														
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm					
																																	162	163	25981	0.015	0.033	0.005	50	44	
																																	163	164	25982	0.014	0.018	0.005	63	39	
																																	164	165	25983	0.016	0.025	0.009	84	124	
																																	165	166	25984	0.01	0.022	0.009	102	187	
																																	166	167	25985	0.009	0.018	0.007	91	110	
																																	167	168	25986	0.012	0.019	0.0025	55	23	
																																	168	169	25987	0.019	0.038	0.005	258	203	
																																	169	170	25988	0.017	0.028	0.007	109	109	
																																	170	171	25989	0.036	0.02	0.008	69	120	
																																				25990	0.498	7.347	0.5145	1470	1370
																																		171	172	25991	0.024	0.012	0.015	214	359
																																		172	173	25992	0.02	0.0515	0.018	163	289
																																		173	174	25993	0.022	0.031	0.028	116	309
																																		174	175	25994	0.015	0.026	0.017	146	250
																																		175	176	25995	0.018	0.043	0.008	67	10
																																		176	177	25996	0.015	0.046	0.005	80	5
																																		177	178	25997	0.0025	0.0025	0.0025	21	3
																																		178	179	25998	0.009	0.019	0.019	122	212
																																		179	180	25999	0.013	0.034	0.01	145	200
																																				26000	0.094	0.135	0.048	18000	8730

Start Date: 28/Jan/08 Hole: HN-08-25
 Complet on Date: 30/Jan/08 Project: SV-HDN
 Azimuth: 124 Property: Horden Lake
 Dip: -60 Logged By: landry
 Survey Method: Flexit Date: 25/04/2008

Southampton Ventures Inc.

Diamond Core Log Sheet

Nothing: 5646980 Depth: 322 m
 Easting: 303363 Elevation: 255.614m
 Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Supervisor: [REDACTED]

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
0	25.2	CAS		Casing	207	127.3	-58.5	MAG (NT) 57680	29	29.5	Strong	Pervasive	SI					25.2	34.3	CG																		
25.2	42.8	LGAB		Leuco/Anorthic Gab					29	29.5	Moderate	Patchy	BT		29.75	29.9	60	DYKE																				
									30.85	31	Strong	Pervasive	CH																									
									32.37	32.45	Strong	Fract-Cont	SI		32.37	32.45	25	VEIN																				
									32.75	33	Moderate	Pervasive	A					34.3	35.4	FG/MG																		
									32.75	33	Strong	Pervasive	CH																									
									34.5	35.4	Moderate	Patchy	SI		34.5	35	43	FOL																				
									34.5	35.4	Moderate	Pervasive	CH																									
									34.5	35.4	Strong	Pervasive	BT																									
42.8	53.53	MD		Mafic Dyke					37	37.8	Weak	Pervasive	BT					35.4	37	CG																		
									37.2	38	Strong	Pervasive	SI	very silicified					37	38	FG																	
									38.05	42.8	Strong	Pervasive	CH						38	42.8	CG																	
									38.05	42.8	Strong	Pervasive	BT	very flaky core					42.8	43.2	APH																	
									42.8	53.53	Moderate	Fract-Cont	SI		43.9	44	65	VEIN																				
									58.75	59.3	Strong	Patchy	SI						44.6	52.75	CG	very slightly magnetic																
									61.3	62	Moderate	Patchy	SI						52.75	53.35	FG																	
																			53.35	53.53	CM																	
																			53.53	54	FG																	
																			54	62	CG																	
															61.55	61.71	40	VEIN					61.65	61.71	DISS	PY	0.5	some in bleb with CP and PO										
																							61.65	61.71	DISS	CP	0.5	some in bleb with PY and PO										
																							61.65	61.71	BLB	PO	1	single small bleb										
62	74.9	GAB		Gabbro					62	67.95	Weak	Patchy	CH						62	67.95	CG																	
74.9	88	MGAB		Mafic Metagab					72.4	72.7	Moderate	Fract-Cont	CH						74.9	88	CG	large pyroxenes																
									72.4	72.7	Strong	Fract-Cont	SI																									
									72.55	74.9	Moderate	Pervasive	SI																									

Start Date: 28/Jan/08

Hole: HN-08-25

Southampton Ventures Inc.

Nothing: 6646980

Depth: 322 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303363

Elevation: 255.614 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
								79.55	81	Moderate	Pervasive	SI																											
								62.95	83.4	Strong	Pervasive	CH	broken core CH altered	79.65	79.7	45	FR																						
								83.75	84.07	Moderate	Pervasive	CH																											
								83.75	84.07	Strong	Patchy	SI		85	85.1	12	FR																						
88	90	PXE		Pyroxenite				85.2	88	Strong	Pervasive	SI						88	90	CG		88.75	88.85	DISS	CP	2		88.5	89.5	27895	0.045	0.111	0.008	418	467				
								87.6	88	Moderate	Fract-Cont	SI										88.85	88.93	Vein	PY	1													
								88	90	Strong	Pervasive	CH																											
								88.9	89							30	VEIN																						
90	91.8	PSAM		Meta-Psammite				89.55	89.75	Strong	Patchy	SI						90	91.8	MG/CG	"c. quartz-rich"	91.25	91.45	BLB	CP	2		89.5	90	27896	0.039	0.189	0.013	532	790				
91.8	95.4	MGAB		Mafic Melagab				90	91.8	Weak	Patchy	CH						91.8	95.4	CG		95.55	105.8	DISS	MT	10		91	91.8	27897	0.0025	0.0025	0.0115	114	450				
95.4	108	PXE		Pyroxenite				91.8	95.4	Strong	Pervasive	CH										120.8	121.3	DISS	MT	0.05		95	96	27898	0.038	0.01	0.017	314	412				
108	114.54	MGAB		Mafic Melagab				93.15	93.4	Weak	Fract-Cont	SI						108	114.54	CG		120.8	121.3	DISS	PY	0.05		96	97	27899	0.03	0.014	0.142	582	353				
114.54	130.4	PXE		Pyroxenite				95.4	106.05	Weak	Pervasive	SI						114.54	130.4	CG		130.2	130.4	CON	CP	2													
130.4	133.6	MGAB		Mafic Melagab				95.4	108	Strong	Pervasive	CH						130.4	133.6	CG																			
								95.55	105.85	Strong	Pervasive	M																											
								106.05	106.75	Weak	Pervasive	SI																											
								108	114.54	Weak	Patchy	SI																											
								108	111.15	Strong	Pervasive	CH																											
								109	114.54	Weak	Patchy	BT																											
								112.43	112.65	Strong	Fract-Cont	CH																											
								114.54	130.4	Moderate	Patchy	A																											
								114.54	130.4	Strong	Pervasive	CH																											
								130.4	133.6	Weak	Pervasive	CH																											
								130.4	133.6	Strong	Patchy	SI																											
								130.4	133.6	Moderate	Patchy	BT																											
														131.11	131.14	15	FR																						
														132.75	132.79	90	VEIN																						

Start Date: 28/Jan/08

Hole: HN-08-25

Southampton Ventures Inc.

Northing: 5646980

Depth: 322 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303363

Elevation: 255.614 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
133.6	164.75	PXE		Pyroxenite				133.6	164.75	Weak	Patchy	A		133.6	153.61	30	CT	133.6	164.75	CG																				
164.75	166.7	MGAB		Mafic Metagab				133.6	164.75	Strong	Pervasive	CH							164.75	166.7	CG		139	141	DISS	CP	0.5													
								153.55	159.95	Strong	Patchy	M	altered the pyroxenes mainly						164.75	166.7	CG		154.5	159.9	DISS	MT	5													
								164.75	166.7	Weak	Patchy	SI							164.75	166.7	CG																			
								164.75	166.7	Weak	Patchy	A							164.75	166.7	CG																			
								164.75	166.7	Moderate	Pervasive	CH							166.65	166.7	CG																			
166.7	168.3	PXE		Pyroxenite				166.7	168.3	Moderate	Patchy	A		166.65	166.7	80	CT	166.7	168.3	CG																				
168.3	170.55	MD		Mafic Dyke				166.7	168.3	Strong	Pervasive	CH							168.3	168.35	CM																			
								168.3	170.55	Weak	Fract-Cont	SI							168.35	169.2	VFG																			
														169.7	169.85	30	FR		169.2	170.4	FG																			
														170.55	170.55	59	CT		170.4	170.52	VFG		170.3	170.4	FRA	PY	0.5													
																			170.52	170.55	CM		170.3	170.4	FRA	CP	0.5													
170.55	177.35	PXE		Pyroxenite				170.55	177.35	Moderate	Patchy	A							170.55	177.35	CG		170.5	170.7	DISS	PY	0.05	trace												
								170.55	177.35	Strong	Pervasive	CH																												
								174.7	175.05	Weak	Fract-Cont	K							174.7	175.05	6	FR																		
177.35	198	MGAB		Mafic Metagab				177.35	198	Weak	Patchy	A	hornblende						177.35	198.07	CG																			
								177.35	198	Moderate	Pervasive	CH																												
								181.3	181.5	Weak	Fract-Cont	K							179.2	179.4	30	FR																		
														182	182.05	50	FR																							
														186.45	186.6	30	FR		186.45	186.6	30	FR																		
								187.85	188.9	Moderate	Fract-Cont	A	hornblende																											
								187.85	188.9	Strong	Fract-Cont	CH							188.96	189	50	FOL																		
														196.07	197	45	FOL		196.07	197	FG/MG	foliated																		
198	198.93	PXE		Pyroxenite				198.03	198.93	Weak	Pervasive	A							197	198	CG																			
198.93	217.8	MGAB		Mafic Metagab				198.03	198.93	Strong	Pervasive	CH							198	198.93	CG																			

Start Date: 28/Jan/08

Hole: HN-08-25

Southampton Ventures Inc.

Nothing: 6646980

Depth: 322 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303363

Elevation: 255.614m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays															
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm						
								230.22	231	Weak	Patchy	BT						232.6	235.8	CG		230.2	231	BLB-DISS	CP	1	one small bleb															
								230.22	231	Strong	Pervasive	CH											230.2	231	DISS	MT	1															
								231	235.8	Moderate	Pervasive	CH											230.2	231	DISS	PY	1															
								232	233	Weak	Pervasive	BT											230.2	231	DISS	PO	1															
								233	235.8	Weak	Patchy	BT											231	235.8	BLB-DISS	CP	3															
																							231	235.8	DISS	PY	1															
																							231	235.8	BLB-DISS	PO	5															
235.8	240.9	QTZE		Quartzite				235.7	235.8	Weak	Patchy	BT		235.7	235.8	20	FR	235.8	240.9	FG	very silicified	235.8	238.1	BLB-DISS	CP	3																
								235.8	238.15	Moderate	Pervasive	CH											235.8	238.1	DISS	PY	1															
								235.9	236.1	Moderate	Pervasive	BT											235.8	238.1	BLB-DISS	PO	5															
240.9	244.38	MVOL		Mafic Volcanic				240.9	244.38	Moderate	Fract-Cont	SI		240.9	241.05	40	VEIN	240.9	244.38	FG/MG		240.9	244.3	FRA	CP	0.5																
								240.9	244.38	Strong	Pervasive	CH											240.9	244.3	FRA	PY	1															
																							240.9	244.3	FRA	PO	3															
																							241.3	241.4	DISS	MT	0.05	trace?? not visible but magnetic where no PO present within CP blebs in vein														
																							241.3	241.4	Vein	PO	5															
																							241.3	241.4	Vein	CP	30	quartz vein (near 90 to core), big blebs of CP														
244.38	244.53	QV		Quartz Vein										242.8	242.95	30	VEIN																									
														243.3	243.47	50	VEIN																									
														244.53	244.53	23	CT																									
244.53	244.95	MVOL		Mafic Volcanic				244.53	244.95	Weak	Fract-Cont	SI						244.53	244.95	FG/MG		244.5	244.9	DISS	CP	1																

Start Date: 28/Jan/08

Hole: HN-08-25

Southampton Ventures Inc.

Northing: 6646960

Depth: 322 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303363

Elevation: 255.614 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays																						
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm													
267.75	273	PEL		Metapelite				276.1	278.8	Strong	Pervasive	M						260.85	261.48	CG	antho-rich bt	260.8	261.4	BLB-DISS	CP	20																							
273	276.1	MSED		Metasediment				276.1	294.15	Strong	Patchy	CH						261.48	262.02	M	ortho-schist	260.8	261.4	BLB-DISS	PO	15																							
276.1	294.15	PEL		Metapelite														262.02	262.46	CG	massive	260.8	261.4	ST	PO	20																							
																					sulphides	261.4	262.0	MASS	CP	3																							
																					semi-massive	261.4	262.0	MASS	PY	14																							
																					sulphides in	261.4	262.0	MASS	PO	60																							
																					MSED;	262.0	262.4	DISS	PY	3																							
																					anth-bt-schist	262.0	262.4	SMASS	CP	15																							
																					anthophyllite, bt	262.0	262.4	SMASS	PO	60																							
																					pegmatitic bt,	262.4	264.2	DISS	PY	3																							
																					coarse grained	262.4	264.2	BLB-DISS	CP	27																							
																					qtz and	262.4	264.2	BLB-DISS	PO	25																							
																					feldspars*	264.2	267.7	DISS	PENT	4																							
																					anthophyllite	264.2	267.7	DISS	PY	5																							
																					and bt	264.2	267.7	DISS	CP	10																							
																					"quartz rich,	264.2	267.7	DISS	PO	15																							
																					bt-schist"	267.7	273	DISS	MT	2																							
																					ord-bt-schist	267.7	273	DISS	PY	3																							
																					MVOL	267.7	273	DISS	CP	5																							
																					Psam	267.7	273	DISS	PO	8																							
																					MVOL	273	276.1	DISS	CP	2																							
																					Psam	273.6	276.1	DISS	PO	3																							
																					MVOL	273.6	276.1	DISS	MT	4																							
																					PEL; ord-ot-	276.1	280.4	DISS	PY	4																							
																					schist	276.1	280.4	DISS	CP	5																							
																					PSAM quartz	276.1	280.4	DISS	PO	5																							
																					rich, bt-schist"	276.1	278.8	DISS	MT	8																							
																					MVOL	275.12	276.1	DISS																									
																					PEL;	275.12	275.23	DISS																									
																					ord-bt-schist	275.23	275.67	DISS																									
																					PSAM;	275.67	275.91	DISS																									
																					anth-schist	275.91	276.1	DISS																									
																					MVOL	275.91	276.1	DISS																									

Start Date: 28/Jan/08

Hole: HN-08-25

Southampton Ventures Inc.

Nothing: 6646980

Depth: 322 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303363

Elevation: 255.614 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: Iandry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
294.15	294.57	MVOL		Mafic Volcanic Metapelite				294.57	303.85	Moderate	Patchy	CH		290.18	290.2	60	VEIN	294.15	294.57	FG	VFG to FG; minor bt near contacts (gradual contacts)	294.5	303.8	DISS	CP	1														
294.57	303.85	PEL			297	297.25	Strong	Patchy	SI						294.57	295.6		CG	295.6	297.75	CG	ord-mc-schist bt-schist	294.5	303.8	DISS	PY	1													
294.15	294.57	MVOL													297.25	297.28	80	VEIN																						
294.57	303.85	PEL													297.35	297.37	80	VEIN																						
															297.75	303.85		CG				ord-mc-schist, minor bt																		
															298	302	75	FOL																						
															303.85	304.5		FG				VFG to FG	304.5	308.1	FRA	PY	0.05	trace												
															304.5	306.12		CG				ord-mc- schist, minor bt	306	308.4	FRA	PY	1													
																						MG/IG	MVOL anc	306.7	308.7	MASS	CP	20												
																							Pelite mixed and altered by patchy qtz in interval	306.7	308.7	MASS	PO	75												
303.85	304.5	MVOL		Mafic Volcanic				306.12	306.4	Moderate	Patchy	CH									306.7	308.9	DISS	PO	5															
304.5	306.12	PEL		Metapelite				306.12	308.92	Weak	Pervasive	CH										306.7	308.9	DISS	CP	8														
306.12	306.92	MSED		Metasediment				306.12	308.92	Weak	Pervasive	CH										306.9	309.2	MASS	CP	10														
306.92	309.25	MS		Massive Sulphide				306.92	309.25	Weak	Patchy	SI									MG/CG	ord-mc-schist; substantial amounts of large ord	306.9	309.2	MASS	PO	85													
309.25	309.76	QV		Quartz Vein				309.25	309.3	Moderate	Fract-Cont	CH	at contact with massive sulphide unit									306.2	309.7	BLB	CP	5														
309.76	311.65	PEL		Metapelite																		306.8	309.8	SMASS	PO	20														
311.65	312.15	PEG		Pegmatite																		306.8	309.8	SMASS	CP	55														
312.15	312.4	PEL		Metapelite																		MVOL anc	306.8	309.8	SMASS	CP	55													
312.4	314.7	PEG		Pegmatite																		mc-schist (pelite)	306.8	310.0	ST	PO	15													
314.7	314.97	PEL		Metapelite				310.1	311.65	Strong	Fract-Cont	SI										mc-schist;	306.8	310.0	ST	CP	15													
314.97	322.22	PEG		Pegmatite				310.1	311.65	Moderate	Fract-Cont	CA										MG/CG	306.8	310.0	ST	CP	15													
								310.8	311	Weak	Fract-Cont	A										little to no ord	310.0	311.6	DISS	PY	3													
								310.8	311	Strong	Fract-Cont	CH										minor bt'	311.6	311.6	FRA	CP	2													
								311.65	312.15	Weak	Fract-Cont	CH										bt-mc-schist	311.6	312.1	INT	CP	2													

Start Date: 28/Jan/08

Hole: HN-08-25

Southampton Ventures Inc.

Northing: 6646860

Depth: 322 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803363

Elevation: 255.614m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays																						
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm													
								312.15	312.4	Moderate	Patchy	CH						308.65	308.92	FG/IMG	MVOL anc peile layers; very mineralized	312.1	312.4	BLB	PO	2																							
								312.15	312.4	Strong	Pervasive	SI											312.1	312.4	BLB	CP	3																						
								312.4	314.7	Weak	Fract:Cont	CH											319	322.2	DISS	PY	0.05	trace																					

Start Date: 28/Jan/08

Hole: HN-08-25

Southampton Ventures Inc.

Nothing: 6646960

Depth: 322 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803363

Elevation: 255.614m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
																		318.7	322.22	PEG	'x-scar rich, mc and quartz'																	

Start Date: 28/Jan/08

Hole: HN-08-26

Southampton Ventures Inc.

Nothing: 6646980

Depth: 388 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303362

Elevation: 255.668 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration					Structure				Texture				Mineralization						Assays							
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
299.7	305.35	GAB		Gabbro				200.85	223.9	Moderate	Pervasive	CH	more intense than prev MGAB unit					122.1	142.4	M		295	295.8	DISS	PO	1		293	294	30135	0.0025	0.187	0.041	23	734
305.35	311.6	PSAM		Meta-Psammite														122.1	142.4	CG	large chlorized Px, mostly CG, but diff cut to see grains izr because of chloritization*	295.8	299.7	DISS	PO	0.5		294	295	30136	0.0025	0.0025	0.0025	27	839
311.6	313	QTZE		Quartzite																		295	295.5	DISS	CP	1		295	295.5	30137	0.0025	0.0025	0.0025	30	802
313	320.5	PSAM		Meta-Psammite																		296.7	302.5	DISS	CP			295.5	295	30138	0.0025	0.0025	0.015	43	6050
320.5	322.6	PEL		Metapelite																		296	296.5	DISS	PO			296	296.5	30139	0.0025	0.0025	0.0025	47	1860
322.6	324.3	PSAM		Meta-Psammite				223.9	229	Weak	Patchy	BT										302.5	303	DISS	PY			302.5	303	30140	0.499	7.9685	0.4825	1760	1850
324.3	327.7	MTVOL		Metavolcanic				223.9	236.6	Moderate	Pervasive	CH										302.5	303	BLB-DISS	PO	5		299	299.7	30141	0.06	0.246	0.264	1370	3910
327.7	330	PEL		Metapelite				230.3	235.8	Strong	Patchy	SI						130.3	130.7	BC		302.5	303	DISS	CP			299.7	300.3	30142	0.073	0.294	0.253	1620	2840
330	337.3	PSAM		Meta-Psammite				236.6	238.75	Strong	Pervasive	SI						140.8	141.8	BC		303	305.3	DISS	PY	0		300.3	301	30143	0.043	0.119	0.118	894	1530
337.3	338.75	MVOL		Mafic Volcanic				236.6	238.75	Strong	Pervasive	CH						142.4	161.75	M		303	305.3	DISS	CP	1		301	302	30144	0.034	0.124	0.144	914	2130
338.75	340.2	PSAM		Meta-Psammite				238.75	241.75	Strong	Pervasive	SI						142.4	161.75	POIK	loica poik Px (large 3-7 cm grains)	303	305.3	DISS	PO	8	dis Po aligned with foliation	302.5	303	30145	0.096	0.131	0.019	1100	1370
340.2	349.15	MVOL		Mafic Volcanic				238.75	241.75	Weak	Pervasive	CH						142.4	161.75	MG/CG	local CG Px	305.3	307	DISS	CP	1		304	304.8	30148	0.048	0.129	0.032	1670	2660
349.15	349.3	PEG		Pegmatite				244.7	245	Weak	Patchy	BT						161.75	200.85	M		305.3	307	DISS	PO	8	orientec with foliation	304.8	305.3	30149	0.025	0.09	0.0025	1930	1940
349.3	350.85	MVOL		Mafic Volcanic				244.7	245	Weak	Patchy	BT						161.75	200.85	MG/CG	trace FG amphibole	307	307.3	ST	PO	5		304	304.8	30150	0.099	0.134	0.056	21900	8390
350.85	352.5	PEG		Pegmatite				245.6	246.2	Moderate	Pervasive	SI						200.85	223.9	POIK	5% large 3-7 cm sized Px with inclusions	307.3	309.4	DISS	CP	10	trace	305.3	307	30151	0.0025	0.082	0.0025	1610	1730
352.5	353.1	MVOL		Mafic Volcanic				246	246.2	Strong	Fract-Cont	CH						200.85	223.9	POIK		307	307.3	ST	PO	5		305.3	306	30151	0.0025	0.082	0.0025	1610	1730
353.1	355.4	PSAM		Meta-Psammite				246	246.2	Strong	Fract-Cont	CH						200.85	223.9	POIK		307	307.3	ST	CP	10		306	306.5	30152	0.0025	0.131	0.0025	2190	2270
355.4	355.7	MTVOL		Metavolcanic				246.2	246.1	Strong	Pervasive	SI						200.85	223.9	POIK		307	307.3	ST	CP	10		306	306.5	30152	0.0025	0.131	0.0025	2190	2270
355.7	356.15	MS		Massive Sulphide				249.1	250.75	Weak	Pervasive	CH						200.85	223.9	POIK		307.3	309.4	DISS	CP			305.3	307	30153	0.056	0.079	0.0025	2040	1580
356.15	358.1	PSAM		Meta-Psammite				250.75	252.9	Moderate	Pervasive	CH						200.85	223.9	POIK		307.3	311.6	DISS	MT			307	307.5	30154	0.027	0.094	0.0025	1760	3000
358.1	358.8	MVOL		Mafic Volcanic				252.9	255.2	Moderate	Patchy	SI						200.85	223.9	M		308.4	311.6	BLB-DISS	PO	1.5	only 1-2 blebs	307.5	309.2	30155	0.0025	0.0025	0.057	82	406
358.8	360.75	MSED		Metasediment				252.9	260.2	Weak	Pervasive	CH						200.85	223.9	MG/CG		308.4	311.6	BLB-DISS	PY			308.2	309	30156	0.0025	0.0025	0.0025	56	250
360.75	363	PSAM		Meta-Psammite				256.75	260.2	Moderate	Patchy	SI						223.9	229	MG		308.4	311.6	BLB-DISS	PY			309	310	30157	0.0025	0.0025	0.0145	162	1260
363	365	MVOL		Mafic Volcanic				260.2	262.6	Strong	Pervasive	SI						229	238.8	FG/MG		308.4	311.6	BLB-DISS	CP	1	only 1-2 blebs	310	311	30158	0.0025	0.0025	0.015	148	904
365	367.35	PSAM		Meta-Psammite				262.6	263.8	Moderate	Pervasive	CH						236.8	238.75	FG/MG		308.4	311.6	BLB-DISS	CP	1	only 1-2 blebs	311	312	30159	0.0025	0.037	0.157	437	1960
367.35	368.9	PEL		Metapelite				263.8	265.25	Moderate	Pervasive	CH						238.75	241.75	CG		311.6	311.8	BLB-DISS	PO	1.5	only 1-2 blebs	311.6	311.8	30160	0.0025	0.0025	0.0025	3	4
368.9	372.85	PSAM		Meta-Psammite				265.25	273.6	Moderate	Pervasive	CH						241.75	243.75	FG/MG		311.6	311.8	BLB-DISS	PY			312	313	30161	0.0025	0.009	0.043	224	915
372.85	373.45	MSED		Metasediment				267.6	269.6	Weak	Patchy	BT						243.75	246.2	MG/CG		311.6	311.8	BLB-DISS	PY			313	314	30162	0.022	0.082	0.008	635	1220
373.45	377.1	PSAM		Meta-Psammite				269	273.6	Strong	Patchy	SI						246.2	249.1	MG/CG		311.6	311.8	BLB-DISS	CP	1	only 1-2 blebs	314	314.7	30163	0.011	0.028	0.0025	438	896
377.1	377.45	MSED		Metasediment				269	273.6	Strong	Patchy	BT						249.1	252.9	M		314.7	315.2	BLB-DISS	CP	1	only 1-2 blebs	314.7	315.2	30164	0.01	0.307	0.0025	3860	3570
377.45	381	PSAM		Meta-Psammite				273.6	276.9	Weak	Pervasive	CH						249.1	252.9	MG		311.6	313	DISS	MT			315.2	316	30165	0.00425	0.031	0.0025	467	1050
381	381.95	PEL		Metapelite				276.9	280.1	Weak	Pervasive	CH						252.9	260.2	FG/MG		312.8	313	BLB-DISS	CP	2		316	317	30166	0.0025	0.0025	0.0025	318	545
381.95	383.4	PSAM		Meta-Psammite				277.6	278	Moderate	Pervasive	BT						252.9	260.2	M		312.8	313	BLB-DISS	PO	5		317	318	30167	0.0025	0.0025	0.0025	36	323
383.4	386.05	PEL		Metapelite				280.45	288.25	Moderate	Pervasive	CH						260.2	262.6	MG		313	314.7	BLB-DISS	CP	2		318	319	30168	0.0025	0.0025	0.0025	54	225
								287.25	288.25	Moderate	Patchy	SI						261.5	262.6	M		313	314.7	BLB-DISS	PO	5		338	338.7	30169	0.0025	0.0025	0.0025	117	237
								288.25	289.1	Moderate	Pervasive	CH						262.6	263.8	M		314.7	315.2	BLB	CP	5		30170	0.4965	8.0165	0.4845	1720	1590		

Start Date: 28/Jan/08

Hole: HN-08-26

Southampton Ventures Inc.

Nothing: 6646980

Depth: 388 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903362

Elevation: 255.668 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
	282.1							282.1	282.1			CH						282.6	283.8	MG		314.7	315.2	SMASS	PO	40		338.7	339.5	30171	0.0025	0.0025	0.0025	45	90
	282.1							282.1	282.7	Weak	Patchy	CH						283.8	285.25	M		315.2	317	DISS	CP			339.5	340	30172	0.0025	0.0025	0.0025	62	123
	282.7							282.7	305.35	Weak	Pervasive	CH						283.8	285.25	M		315.2	317	FRA	PO	2		340	341	30173	0.0025	0.0025	0.0025	69	102
	303							303	305.35	Moderate	Pervasive	S	Po diss along fol					285.25	273.6	FG/MG		316.4	319.6	DISS	MT	2		341	342	30174	0.0025	0.0025	0.0025	75	181
	322.6							322.6	322.6	Weak	Patchy	CH						273.6	276.9	FG/MG		337.3	338.7	DISS	PY			342	343	30175	0.0025	0.0025	0.0025	66	104
	322.6							322.6	324.3	Weak	Pervasive	SR						276.6	276.9	CM		355.4	355.7	BLB	PY	2		343	344	30176	0.0025	0.0025	0.0025	58	119
	324.3							324.3	327.7	Weak	Fract-Cont	CA						276.6	277.05	CG		355.7	355.9	MASS	PO	5		345	345	30178	0.0025	0.0025	0.0025	53	112
	324.3							324.3	327.7	Strong	Patchy	SI						277.05	278.75	MG		355.7	355.9	SMASS	PY	80		346	347	30179	0.02	0.0025	0.0025	58	117
	324.3							324.3	327.7	Strong	Patchy	CH	only trival part					278.75	279.3	FG		355.7	355.9	SMASS	CP	5		346	347	30180	0.0025	0.0025	0.0025	5	45
	330							330	333.1	Weak	Patchy	CH						279.3	279.5	CG		355.9	358.0	DISS	MT	5		347	348	30181	0.0025	0.0025	0.0025	56	156
	337.3							337.3	338.75	Weak	Patchy	BT						279.5	280.1	MG/CG	contn rs	355.9	358.0	MASS	PO	90		348	349	30182	0.0025	0.0025	0.0025	59	106
	337.3							337.3	338.75	Weak	Patchy	BT						280.1	280.44	VFG	enclave of PSAM	356.0	358.1	SMASS	PY	20		349	350	30183	0.0025	0.0025	0.0025	54	93
	337.3							337.3	338.75	Strong	Pervasive	CH						280.11	280.44	VFG		356.0	358.1	SMASS	PO	5		350	351	30184	0.0025	0.0025	0.0025	66	210
	340.2							340.2	349.15	Weak	Fract-Cont	SI	local veins					280.45	286.25	M		356.0	358.1	SMASS	CP	5		351	352	30185	0.0025	0.0025	0.0025	10	83
	340.2							340.2	349.15	Moderate	Patchy	BT	local zones					280.45	286.25	MG		356.1	358.4	DISS	PO	2		352	352.5	30186	0.0025	0.0025	0.0025	5	6
													richer in melaseidim					286.25	289.1	M		356.1	358.4	DISS	CP	5		352.5	353	30187	0.0025	0.0025	0.0025	68	104
													entary component					288.25	289.1	MG		356.7	358.8	SMASS	CP	25		353	354	30188	0.0025	0.0025	0.0025	21	50
																		289.1	290.1	FG/MG		356.7	358.8	SMASS	PO	65		354	354.7	30189	0.0025	0.0025	0.0025	87	186
																		290.1	295	MG/CG	Ath-Bt-Chl Schist wthr CG	373.1	373.2	CON	MT	2	along bedding			30190	0.4085	3.896	0.222	1340	1410
																					Mag	373.1	373.2	FRA	PY	15		354.7	355.3	30191	0.0025	0.0025	0.0025	116	129
																						373.1	373.2	FRA	PY	15		355.3	355.8	30192	0.158	0.17	0.008	355	8980
																						373.1	373.2	FRA	PO	15		355.8	356.3	30193	0.338	0.188	0.067	3920	35100
																						386	387	DISS	PY			355.3	356.9	30194	0.041	0.141	0.011	975	21600
																						386	387	DISS	MT	1		355.9	357.5	30195	0.0025	0.0025	0.0025	94	3640
																						386	387	DISS	MT	1		355.9	357.5	30195	0.0025	0.0025	0.0025	94	3640
																						357.5	358	30196	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	40	106		
																						358	359	30197	0.334	0.111	0.0025	147	73						
																						299.7	303	M				359	360	30198	0.0025	0.0025	0.0025	63	62
																						299.7	303	MG				359	360	30198	0.0025	0.0025	0.0025	63	62
																						303	305.36	FG/MG				360	361	30199	0.0025	0.0025	0.0025	14	63
																						303	305.36	FG/MG				360	361	30199	0.0025	0.0025	0.0025	14	63
																						305.36	307.3	FG				361	362	30200	0.094	0.142	0.053	21900	8500
																						307.3	311.6	MG				361	362	30201	0.0025	0.0025	0.0025	23	117
																						307.3	311.6	MG				361	362	30201	0.0025	0.0025	0.0025	23	117
																						362	363	30202	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	13	3		
																						362	363	30202	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	13	3		
																						363	364	30203	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	39	143		
																						364	365	30204	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	37	139		
																						365	365	30205	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	13	251		
																						365	365	30205	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	13	251		
																						366	367	30206	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	8	4		

Start Date: 28/Jan/06

Hole: HN-08-27

Southampton Ventures Inc.

Nothing: 5648861

Depth: 150 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303555

Elevation: 253.851m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -45

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
0	18.84	CAS		Casing	90	135.1	-40.1	MAG (nT) 56690	18.84	20	Moderate	Patchy	CH		34.4	34.5	30	VEIN	18.84	22.76	M		20	22.76	DISS	MT	2		19	20	23867	0.028	0.082	0.01	1012	847
18.84	22.76	GAB		Gabbro	144	137	-39.8	MAG (nT) 56690	20	22.76	Moderate	Pervasive	BT		42.3	42.4	80	VEIN	18.84	22.76	MG/CG	meta gabbro	20	22.76	BLB-DISS	PY	1		20	21	23868	0.0265	0.0965	0.012	1210	839
22.76	30.56	PSAM		Meta-Psammite					20	22.76	Moderate	Pervasive	CH		51.4	51.5	35	VEIN	22.76	30.56	M	becomes more	20	22.76	BLB-DISS	PO	8	sporadic	21	22	23869	0.0025	0.027	0.0025	249	523
30.56	39.3	QTZE		Quartzite					30.56	39.3	Weak	Patchy	CH	~32.20m	52.47	55.44	1	VEIN				massive toward	22.76	30.56	BLB	PY	1				23870	0.0025	0.0025	0.0025	0.5	3
39.3	44.67	PGNE		Gneiss					39.3	44.67	Strong	Pervasive	SI		52.47	56.46	35	VEIN				quartzite interval	22.76	30.56	BLB	PO	2		22	23	23871	0.0285	0.0765	0.215	257	929
44.67	52.47	MVOL		Mafic Volcanic					44.67	52.47	Moderate	Fract-Cont	SI		56.45	70.47	70	FOL	22.76	30.56	FG	siltstone to	22.76	30.56	DISS	MT	6	porphyritic	23	24	23872	0.018	0.038	0.129	436	458
52.47	56.45	QTZE		Quartzite					52.47	56.45	Moderate	Pervasive	SI	vein	84.5	84.9	70	VEIN				fine grain	24	25	BLB-DISS	CP	1		24	25	23873	0.007	0.036	0.074	205	287
56.45	70.47	PSAM		Meta-Psammite									associated	85.2	85.56	50	VEIN				sandstone	28	28.1	BLB-DISS	PO	10		25	26	23874	0.0025	0.019	0.03	212	296	
70.47	72.54	MS		Massive Sulphide					52.47	56.45	Moderate	Patchy	CH	layers of	103.08	104.48	55	FOL	30.56	39.3	M		30.4	30.5	BLB	PY	5		26	27	23875	0.0025	0.016	0.017	139	165
72.54	96.12	SSH		Melased-Schists									volcanic?	104.48	106.5	10	VEIN	39.3	44.67	M		30.4	30.5	BLB	PO	7		27	28	23876	0.007	0.032	0.009	306	254	
96.12	103.08	SSH		Melased-Schists					67.5	70.47	Moderate	Patchy	A	light	125	105.5	90	VEIN	39.3	44.67	FG		30.56	39.3	DISS	MT	6		28	29	23877	0.025	0.042	0.011	483	765
103.08	104.48	SSH		Melased-Schists									purple,	134.74	138.15	90	VEIN	44.67	52.47	M		30.56	39.3	FRA	CP	2		29	30	23878	0.0025	0.02	0.011	262	743	
104.48	106.5	MVOL		Mafic Volcanic									acicular	139.77	144.07	90	FOL	44.67	52.47	FG		30.56	39.3	FRA	PY	3		30	31	23879	0.02	0.058	0.029	1300	930	
106.5	124.7	SSH		Melased-Schists									crystal	144.48	150	90	FOL	52.47	56.45	M		30.56	39.3	FRA	PO	5				23880	0.511	7.944	0.4885	1420	1380	
124.7	134.74	SSH		Melased-Schists					67.5	70.47	Moderate	Patchy	CH		56.45	70.47	FG		39.3	44.67	DISS		39.3	44.67	DISS	PO	1		31	32	23881	0.014	0.024	0.01	386	281
134.74	138.15	MVOL		Mafic Volcanic					68.2	68.3	Moderate	Fract-Cont	CA	Fracture					56.45	70.47	M		39.3	44.67	DISS	CP	2		139	140	23882	0.0025	0.0025	0.0025	26	13
138.15	139.77	QV		Quartz Vein									filling						70.47	72.54	FG		39.3	44.67	DISS	PY	2		32	33	23883	0.0025	0.0025	0.0025	226	233
139.77	144.07	PSAM		Meta-Psammite									ca cite						70.47	72.54	M		42.3	42.4	FRA	CP	3		33	34	23884	0.011	0.032	0.007	349	467
144.07	144.48	MVOL		Mafic Volcanic					70.47	72.54	Weak	Fract-Cont	SI						72.54	96.12	M		42.3	42.4	FRA	PY	5		34	35	23885	0.0025	0.036	0.139	377	2870
144.48	150	PSAM		Meta-Psammite					70.47	72.54	Moderate	Pervasive	CH						72.54	96.12	FG	siltstone to	42.3	42.4	FRA	PO	7		35	36	23886	0.0025	0.0025	0.007	29	45
									104.48	106.5	Moderate	Fract-Cont	SI										44.67	52.47	DISS	PY	2		36	37	23887	0.0025	0.0025	0.0025	81	247
									115.3	119.73	Moderate	Pervasive	CH	small									44.67	52.47	DISS	CP	3		37	38	23888	0.0025	0.0025	0.0025	60	175
													volcanic										96.12	103.08	M				37	39	23889	0.018	0.035	0.069	204	934
													interval										52.47	56.45	BLB-DISS	PY	0.5									
																							103.08	104.48	FG/MS	PO	1				23890	0.0025	0.0025	0.0025	0.5	5
																							104.48	106.5	M				39	40	23891	0.013	0.068	0.125	133	866
																							52.47	56.45	BLB-DISS	CP	2									
																							104.48	106.5	FG	PO	1		40	41	23892	0.027	0.051	0.139	114	1160
																							106.5	124.7	M				41	42	23893	0.007	0.017	0.035	44	377
																							106.5	124.7	FG	MT	5	porphyritic	42	43	23894	0.152	0.224	0.255	412	2240
																							124.7	134.74	M				43	44	23895	0.0385	0.0706	0.427	115	2950
																							124.7	134.74	FG/MS	CP	5		44	45	23896	0.102	0.2	0.452	394	3920
																							134.74	136.15	M				45	46	23897	0.193	0.388	0.702	144	5500
																							134.74	138.15	FG	PY	5		46	47	23898	0.205	0.39	1.029	182	6830
																							138.15	139.77	YFG	CP	10		47	48	23899	0.061	0.091	0.173	75	1390
																							138.15	139.77	BC	PO	80				23900	0.051	0.141	0.055	21250	8820
																							139.77	144.07	M				48	49	23901	0.033	0.047	0.065	114	1050
																							139.77	144.07	FG/MS	PO	8		49	50	23902	0.013	0.059	0.13	424	7770

Start Date: 28/Jan/08

Hole: HN-08-27

Southampton Ventures Inc.

Nothing: 6648861

Depth: 150 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303655

Elevation: 253.851m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -45

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
																		144.07	144.48	M		72	72.54	SMASS	PY	15			50	51	23903	0.028	0.054	0.147	235	7430		
																		144.07	144.48	FG		72	72.54	SMASS	CP	6			51	52	23904	0.02	0.262	0.048	106	3100		
																		144.48	150	M		72	72.54	SMASS	PO	85			52	53	23905	0.009	0.016	0.035	123	4100		
																		144.48	150	FG/MG		84.5	85.75	FRA	PY	3			53	54	23906	0.021	0.071	0.068	69	784		
																						104.4	108.5	FRA	PY	1	associated with Qtz vein		54	55	23907	0.026	0.0525	0.3075	210	2800		
																													55	56	23908	0.027	0.075	0.34	271	2840		
																						114.4	115	DISS	CP	2			56	57	23909	0.036	0.038	0.292	62	2819		
																						114.4	115	ST	PO	6												

Start Date: 28/Jan/08

Hole: HN-08-27

Southampton Ventures Inc.

Nothing: 6648861

Depth: 150 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803655

Elevation: 253.851 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -45

Logged By: Iandry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays															
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm						
																																	80	81	23939	0.0025	0.0025	0.0025	7	26		
																																			23940	0.0025	0.0025	0.0025	0.5	4		
																																			81	82	23941	0.0025	0.0025	0.0025	6	76
																																			82	83	23942	0.0025	0.0025	0.0025	7	22
																																			114	114.5	23943	0.0025	0.0025	0.0025	5	138
																																			114.5	115	23944	0.017	0.0025	0.014	10	3950
																																			138	139	23945	0.011	0.0025	0.013	15	51
																																			84.5	85	23946	0.0025	0.0025	0.0025	23	63
																																			85	85.75	23947	0.0025	0.0025	0.0025	23	38
																																			105	106	23948	0.0025	0.0025	0.0025	40	111

Southampton Ventures Inc.
Diamond Core Log Sheet

Start Date: 28/Jan/08 Hole: HN-08-28
 Completion Date: 30/Jan/08 Project: SV-HDN
 Azimuth: 124 Property: Horden Lake
 Dip: -70 Logged By: Ian Dry
 Survey Method: Flexit Date: 25/04/2008

Nothing: 5648861 Depth: 129 m
 Easting: 303554 Elevation: 253.861m
 Projection: UTM NAD83 Zone 18N Hole Diameter: NQ
 Supervisor: [Redacted]

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
101.32	101.65	MSED		Metasediment	51	125.7	-68.7	MAG (nT) 56710	18	20.44	Moderate	Pervasive	CH		28.57	32.77	60	BTT	18	20.44	M		18	20.44	BLB-DISS	PO	3		18	19	28208	0.051	0.15	0.08	1100	1790
101	101.32	MS		Massive sulphide					22.38	22.9	Moderate	Pervasive	CH		32.77	33.8	35	BTT	18	20.44	CG		18	20.44	BLB-DISS	CP	2		19	20	28209	0.063	0.189	0.144	1420	2470
99.76	101	PEL		Metapelite					22.9	25.42	Moderate	Pervasive	CH		49.4	52.45	50	FOL	20.44	22.38	M		20.44	22.38	BLB-DISS	PO	3				0.0025	0.0025				
99.6	99.75	QV		Quartz Vein					25.84	25.54	Strong	Pervasive	CH		52.45	54.2	40	FOL	20.44	22.38	CG		20.44	22.38	BLB-DISS	CP	2		20	21	28211	0.067	0.154	0.065	1360	2300
97.98	99.6	PEL		Metapelite					27.12	28.57	Moderate	Patchy	SI		54.2	58.65	50	FOL	22.38	22.9	M		22.38	22.9	BLB-DISS	PO	3		21	22	28212	0.075	0.174	0.03	1120	1720
97.2	97.98	QV		Quartz Vein					29.58	30.5	Moderate	Pervasive	SI		58.65	58.8		FR	22.38	22.9	CG		22.38	22.9	BLB-DISS	CP	2		22	23	28213	0.078	0.189	0.068	1210	2090
96.58	97.2	MS		Massive sulphide					29.58	30.5	Strong	Pervasive	CH		58.65	58.8	60	VEIN	22.9	25.42	M		22.9	25.42	BLB-DISS	PY	2		23	24	28214	0.068	0.196	0.158	1510	2770
96.15	96.58	PSAM		Meta-Psammite					32.77	33.8	Weak	Pervasive	CH		58.8	62.1	65	BTT	22.9	25.42	CG		22.9	25.42	BLB-DISS	PO	3		24	25	28215	0.073	0.197	0.194	1480	3020
95.52	96.15	MS		Massive sulphide					33.8	39	Moderate	Fract-Cont	CH		62.1	95.52	50	FOL	25.42	26.54	M		25.42	26.54	BLB-DISS	CP	1		25	26	28216	0.083	0.192	0.07	1070	1810
62.1	95.52	PSAM		Meta-Psammite					39	39.26	Strong	Fract-Cont	CH		97.2	97.98		FR	25.42	25.82	MG		25.42	26.54	BLB-DISS	PO	3		26	27	28217	0.059	0.124	0.138	1080	1290
58.8	62.1	MTVOL		Metavolcanic					39.26	49.4	Weak	Patchy	CH		97.98	99.6	60	BTT	25.82	26.54	CG		26.54	27.12	DISS	CP	1		27	28	28218	0.054	0.1156	0.085	1730	13300
58.65	58.8	QV		Quartz Vein					39.26	49.4	Moderate	Fract-Cont	CH		99.6	99.76		FR	26.54	27.12	M		26.54	27.12	BLB-DISS	PO	2		28	29	28219	0.04	0.0765	0.025	1175	2330
54.2	58.65	PSAM		Meta-Psammite					49.4	52.45	Moderate	Fract-Cont	SI		99.76	101	45	FOL	26.54	27.12	MG		27.12	26.57	BLB-DISS	CP	2		28	29	28220	0.0216	0.0375	0.00375	827	1715
52.45	54.2	MSED		Metasediment					49.4	52.45	Moderate	Pervasive	CH	moderate	104.38	104.6	70	FOL	27.12	28.57	M		27.12	26.57	BLB-DISS	PO	3		29	30	28221	0.031	0.031	0.014	310	492
49.4	52.45	PSAM		Meta-Psammite										to strong	104.8	105.66	60	FOL	27.12	28.57	CG		28.57	32.77	DISS	CP	0.5	trace	30	31	28222	0.013	0.0225	0.0075	261	660
39.26	49.4	PSAM		Meta-Psammite										moderate	105.66	118.62	40	FOL	28.57	32.77	MG		28.57	32.77	DISS	PY	1		31	32	28223	0.0225	0.031	0.035	250.5	801
39	39.26	MS		Massive sulphide										to strong	118.62	129	50	BTT	32.77	33.8	M		33.8	39	DISS	PY	0.5	trace	32	33	28224	0.01175	0.03775	0.02275	61	154
33.8	39	MSED		Metasediment														FR	32.77	33.8	FG		37.9	36.1	BLB-DISS	CP	2		33	34	28225	0.0245	0.01	0.049	92	270
32.77	33.8	QITZE		Quartzite														BT	33.8	39	FG		37.9	36.1	BLB-DISS	PY	4		34	35	28226	0.012	0.015	0.038	109	2580
28.57	32.77	PSAM		Meta-Psammite														M	33.8	39	M		37.9	36.1	SMASS	PO	50		35	36	28227	0.013	0.007	0.049	95	188
27.12	28.57	GAB		Gabbro														CH	39	39.26	M		39	39.26	BLB-DISS	PY	3		36	37	28228	0.005	0.008	0.0025	132	136
26.54	27.12	LGAB		Leucogabbro														CH	39.26	49.4	M		39	39.26	MASS	PO	95		37	38	28229	0.014	0.044	0.007	528	897
25.42	26.54	GAB		Gabbro														SI	39.26	48.4	MG		39.26	48.8	FRA	PY	1		38	38	28230	0.0025	0.0025	0.0025	0.5	4
22.9	25.42	LGAB		Leucogabbro														CH	49.4	52.45	POBL	anthrophyllite	39.26	48.8	DISS	CP	0.05	trace	38	39	28231	0.063	0.167	0.0025	3320	638
22.38	22.9	GAB		Gabbro														CG	49.4	52.45	CG		39.26	48.8	BLB-DISS	PO	1		39	40	28232	0.098	0.1466	0.0025	7280	128
20.44	22.38	MGAB		Melagabbro														FG	52.45	54.2	FG		48.68	49.4	BLB-DISS	MT	2		40	41	28233	0.0025	0.012	0.0025	192	70
18	20.44	GAB		Gabbro														CG	54.2	58.65	CG		48.8	49.4	BLB-DISS	PY	3		41	42	28234	0.0025	0.01	0.0025	225	93
0	18	CAS		Casing														M	58.65	58.8	M		48.8	49.4	BLB-DISS	CP	1		42	43	28235	0.009	0.017	0.0025	407	597
																		FG	58.8	62.1	FG		48.8	49.4	ST	PO	15		43	44	28236	0.01	0.041	0.0025	645	476
																		MG	62.1	95.52	MG		49.4	52.45	BLB-DISS	CP	1		44	45	28237	0.00025	0.0025	0.0025	171	249
																		M	95.52	96.15	M		49.4	52.45	BLB-DISS	PY	4		45	46	28238	0.009	0.02	0.0025	362	311
																		CH	96.15	97.2	M		49.4	52.45	BLB-DISS	PO	8		46	47	28239	0.0025	0.0025	0.0025	114	80
																		MG	97.2	97.98	MG		49.4	52.45	BLB-DISS	MT	1				28240	0.513	7.893	0.4825	1540	1410
																		B	96.15	99.6	B		49.4	52.86	BLB-DISS	MT	35		47	48	28241	0.007	0.052	0.0025	168	140
																		CG	97.2	97.98	CG		52.66	53.07	DISS	CP	13		48	49	28242	0.011	0.081	0.006	728	1290
																		B	99.6	99.76	B		52.66	53.07	BLB-DISS	PO	25		49	50	28243	0.036	0.103	0.006	1180	2300

Start Date: 28/Jan/08

Hole: HN-08-28

Southampton Ventures Inc.

Nothing: 5648861

Depth: 129 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903654

Elevation: 253.881 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
	99.76							99.76	101	Moderate	Pervasive	CH						97.98	99.6	FG			53.07	53.24	SMASS	PO	45		50	51	28244	0.0115	0.048	0.0025	385	284
	100							99.5	99.76	Moderate	Fract-Cont	BT						99.5	99.76	CG			53.24	53.66	ST	PY	10		51	52	28245	0.018	0.074	0.0025	1360	969
	101							99.76	101	Moderate	Fract-Cont	CH						99.76	101	MG			53.24	53.66	ST	PO	10		52	53	28246	0.058	0.26	0.035	3410	7593
	101.32							99.76	101.85	Strong	Fract-Cont	CH						99.76	100.05	B			54.2	56	BLB-DISS	PY	2		53	54	28247	0.031	0.338	0.013	3280	2110
	101.65							101.65	102.54	Strong	Patchy	CH						101	101.32	B			54.2	56	BLB-DISS	CP	3		54	55	28248	0.046	0.107	0.07	776	1360
	104.39							104.39	104.6	Weak	Patchy	SI						101.32	101.65	B			54.2	54.44	ST	PO	15		55	56	28249	0.024	0.113	0.023	2090	3440
	104.6							104.6	105.66	Moderate	Pervasive	CH						101.65	102.54	B			56.44	56	ST	PO	15		56	57	28250	0.096	0.15	0.052	20700	8780
	105.66							104.39	104.6	Weak	Patchy	CH	weak to moderate				104.39	104.6	FG			56.44	56.88	SMASS	PO	60		56	57	28251	0.088	0.302	0.047	4590	3330	
	105.66							104.6	105.66	MG							104.6	105.66	MG			58.8	62.1	DISS	PY	0.2	trace	57	58	28252	0.065	0.12	0.015	1680	2320	
	105.66							105.66	118.82	Weak	Patchy	SI	weak to moderate				105.66	116.62	POBL			58.8	62.1	DISS	PO	0.2	trace	58	59	28253	0.065	0.062	0.069	158	973	
	118.82							105.66	116.62	MG							105.66	116.62	MG			58.8	62.1	BLB-DISS	CP	1		59	60	28254	0.177	0.389	1.035	208	8190	
	118.82							118.82	129	Weak	Patchy	SI					118.82	129	FG			58.8	62.1	DISS	PB	0.05	trace	60	61	28255	0.174	0.378	1.01	199	6520	
	118.82							118.82	129	Moderate	Fract-Cont	CH					62.1	92.9	BLB-DISS			62.1	92.9	BLB-DISS	PO	3		61	62	28256	0.154	0.323	0.8075	207	8170	
	120.37							120.37	120.52	Strong	Fract-Cont	CH					62.1	92.9	BLB-DISS			62.1	92.9	BLB-DISS	CP	3		62	63	28257	0.019	0.038	0.062	85	439	
	120.37							120.37	120.52	Strong	Pervasive	SI					62.1	95.52	BLB-DISS			63	64	28258	0.011	0.024	0.038	49	370							
	127							127	127.24	Strong	Pervasive	SI					92.9	95.52	ST			64	65	28259	0.03	0.061	0.107	86	1100							
	127							127	127.24	Strong	Fract-Cont	CH					92.9	95.52	ST			64	65	28259	0.03	0.061	0.107	86	1100							
								95.52	96.02	BLB-DISS							95.52	96.02	BLB-DISS			65	66	28260	0.0025	0.0025	0.0025	0.5	4							
								95.52	96.02	MASS							95.52	96.02	MASS			65	66	28261	0.023	0.053	0.605	83	2550							
								96.02	96.15	SMASS							96.02	96.15	SMASS			66	67	28262	0.014	0.026	0.049	60	425							
								96.02	96.15	MASS							96.02	96.15	MASS			66	67	28262	0.014	0.026	0.049	60	425							
								96.15	96.58	BLB-DISS							96.15	96.58	BLB-DISS			67	68	28263	0.014	0.038	0.043	61	695							
								96.15	96.58	BLB-DISS							96.15	96.58	BLB-DISS			67	68	28263	0.014	0.038	0.043	61	695							
								96.58	97.2	BLB-DISS							96.58	97.2	BLB-DISS			68	69	28264	0.02	0.038	0.067	126	968							
								96.58	97.2	CLST							96.58	97.2	CLST			68	69	28264	0.02	0.038	0.067	126	968							
								96.58	97.2	SMASS							96.58	97.2	SMASS			69	70	28265	0.028	0.116	0.807	249	3650							
								97.56	97.6	ST							96.15	96.58	BLB-DISS			69	70	28265	0.028	0.116	0.807	249	3650							
								97.56	97.6	ST							96.15	96.58	BLB-DISS			70	71	28266	0.0025	0.012	0.026	52	357							
								97.56	97.6	ST							96.58	97.2	BLB-DISS			70	71	28266	0.0025	0.012	0.026	52	357							
								97.56	97.6	ST							96.58	97.2	BLB-DISS			71	72	28267	0.014	0.061	0.055	684	4100							
								97.56	97.6	ST							96.58	97.2	CLST			71	72	28267	0.014	0.061	0.055	684	4100							
								97.56	97.6	ST							96.58	97.2	CLST			72	73	28268	0.0025	0.0025	0.0025	27	147							
								97.56	97.6	ST							96.58	97.2	SMASS			72	73	28268	0.0025	0.0025	0.0025	27	147							
								97.56	97.6	ST							97.56	97.6	ST			73	74	28269	0.0025	0.0025	0.0025	17	153							
								97.56	97.6	ST							97.56	97.6	ST			73	74	28269	0.0025	0.0025	0.0025	17	153							
								97.56	97.6	ST							97.56	97.6	ST			74	75	28270	0.4925	7.878	0.495	1600	1370							
								97.56	97.6	ST							97.56	97.6	ST			74	75	28271	0.0025	0.0025	0.0025	20	258							
								97.56	97.6	ST							97.56	97.6	ST			74	75	28271	0.0025	0.0025	0.0025	20	258							
								97.92	97.93	ST							97.92	97.93	ST			75	76	28272	0.0025	0.0025	0.052	16	1160							
								97.92	97.93	ST							97.92	97.93	ST			75	76	28272	0.0025	0.0025	0.052	16	1160							
								98.95	99.6	ST							98.95	99.6	ST			76	77	28273	0.0025	0.0025	0.034	46	480							
								98.95	99.6	ST							98.95	99.6	ST			76	77	28273	0.0025	0.0025	0.034	46	480							
								98.95	99.6	ST							98.95	99.6	ST			77	78	28274	0.012	0.02	0.113	61	1400							
								98.95	99.6	ST							98.95	99.6	ST			77	78	28274	0.012	0.02	0.113	61	1400							
								98.95	99.6	ST							98.95	99.6	ST			78	79	28275	0.014	0.036	0.102	115	1660							
								98.95	99.6	ST							98.95	99.6	ST			78	79	28275	0.014	0.036	0.102	115	1660							
								98.95	99.6	ST							98.95	99.6	ST			79	80	28276	0.017	0.031	0.045	114	870							
								98.95	99.6	ST							98.95	99.6	ST			79	80	28276	0.017	0.031	0.045	114	870							
								99.6	99.76	BLB-DISS							99.6	99.76	BLB-DISS			80	81	28277	0.024	0.044	0.059	96	1160							
								99.6	99.76	BLB-DISS							99.6	99.76	BLB-DISS			80	81	28277	0.024	0.044	0.059	96	1160							
								99.6	99.76	BLB-DISS							99.6	99.76	BLB-DISS			81	82	28278	0.025	0.034	0.111	124	2310							
								99.6	100.0	ST							99.6	100.0	ST			81	82	28278	0.025	0.034	0.111	124	2310							
								99.6	100.0	ST							99.6	100.0	ST			82	83	28279	0.011	0.007										

Start Date: 28/Jan/08

Hole: HN-08-29

Southampton Ventures Inc.

Nothing: 6648636

Depth: 195 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903347

Elevation: 254.930m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
194.09	194.8	SSH		Metased-Schists	51	128	-69.2	MAG (NT) 56900	21.46	64.21	Moderate	Fract-Cont	CH		21.46	64.21	FOL	21.46	64.21	MG	MG-CG	21.46	64.21	BLB-DISS	PY		traces	84	85	28148	0.0025	0.0025	0.0025	28	75	
193.52	194.09	PEL		Metapelite	102	130.1	-68.8	MAG (NT) 56930	21.46	64.21	Moderate	Patchy	SI		111.47	112.32	45	FOL	21.46	64.21	M		77.67	78.1	DISS	PY	1		85.2	85.7	28147	0.0025	0.0025	0.0025	54	119
193.14	193.52	QV		Quartz Vein	150	132	-67.2	MAG (NT) 57900	75.58	75.56	Moderate	Fract-Cont	CH		112.32	112.66	40	SCHS	75.58	75.56	M						traces	104	105	28149	0.0025	0.0025	0.0025	23	26	
191.85	193.14	PEL		Metapelite	195	133.5	-66.7	MAG (NT) 57030	75.58	75.56	Moderate	Fract-Cont	SI		112.66	113	40	FOL	75.58	75.56	MG		107	107.3	DISS	PY	1		28150	0.0025	0.136	0.055	23850	8970		
188.95	191.85	SSH		Metased-Schists					75.56	77.67	Moderate	Fract-Cont	SI		113	116.67	40	SCHS	75.56	77.67	M		107.9	109.2	DISS	PY		traces	105	108	28151	0.0025	0.0025	0.0025	116	197
180.7	188.95	MSED		Metasediment					75.56	77.67	Moderate	Fract-Cont	CH		116.67	120.63	50	FOL	75.56	77.67	MG		108.2	110.1	DISS	PY		traces	121	122	28152	0.0025	0.0025	0.01	139	907
174.5	180.7	QV		Quartz Vein					77.67	78.1	Moderate	Fract-Cont	CH		120.63	122.83	50	FOL	77.67	78.1	M						traces	122	122.8	28153	0.0025	0.0025	0.0025	35	461	
173.13	174.5	MSED		Metasediment					78.1	78.4	Moderate	Fract-Cont	SI		126.78	143.2	45	FOL	77.67	78.1	FG		110.1	111.4	DISS	PY	2		127	128	28154	0.0025	0.0025	0.022	63	1510
169.33	173.13	PSAM		Meta-Psammite					78.1	78.4	Moderate	Fract-Cont	CH		143.2	143.95	60	BTT	78.1	78.4	M		112.3	112.6	DISS	PY		traces	141.0	142.0	28155	0.0025	0.005	0.0025	93	3050
168.95	169.33	MS		Massive sulphide					78.4	79.33	Moderate	Fract-Cont	CH		143.95	144.61	60	FOL	78.1	78.4	MG		113	118.6	DISS	PY		traces	143	144	28156	0.0025	0.01	0.0115	108	683
167.9	168.95	MTVOL		Metavolcanic					78.4	79.33	Moderate	Fract-Cont	SI		144.61	148.22	60	BTT	78.4	79.33	M		116.6	120.6	DISS	PY		traces	144	145	28157	0.0025	0.0025	0.0025	48	307
167.07	167.9	MS		Massive sulphide					79.33	80.95	Moderate	Fract-Cont	CH		148.22	148.48	55	BTT	78.4	79.33	MG		120.6	122.8	DISS	CP	0	traces	145	145	28158	0.0025	0.011	0.03	82	675
166.93	167.07	MSED		Metasediment					79.33	80.95	Moderate	Fract-Cont	SI		148.48	150.84	55	BTT	79.33	80.95	M		122.4	122.6	BLB-DISS	CP	2		146	147	28159	0.0025	0.008	0.0025	66	154
166.53	166.93	MS		Massive sulphide					80.95	81.75	Moderate	Fract-Cont	CH		150.84	157.82	45	FOL	79.33	80.95	MG		124.7	128.7	DISS	PY		traces	147	148	28160	0.0025	0.0025	0.0025	3	11
163.1	166.53	MTVOL		Metavolcanic					80.95	81.75	Moderate	Fract-Cont	SI		158.44	159.2	45	SCHS	80.95	81.75	M		124.7	128.7	BLB-DISS	PO			147	148	28161	0.0025	0.007	0.0025	90	318
162.8	163.1	MS		Massive sulphide					81.75	82.9	Moderate	Fract-Cont	CH		159.78	162.46	40	SCHS	80.95	81.75	FG		128.7	143.2	DISS	CP		traces	148	149	28162	0.0025	0.006	0.0025	55	311
162.46	162.8	MTVOL		Metavolcanic					81.75	82.9	Weak	Fract-Cont	SI		162.46	162.8	25	FOL	81.75	82.9	M		138.5	140.4	BLB-DISS	PO		traces	149	150	28163	0.0025	0.015	0.06	83	2450
159.78	162.46	MSED		Metasediment					82.9	83.58	Moderate	Fract-Cont	CH		163.1	166.53	45	SCHS	81.75	82.9	MG		138.5	140.4	BLB-DISS	CP	1		150	151	28164	0.0025	0.013	0.042	73	2510
159.2	159.78	MS		Massive sulphide					82.9	83.58	Moderate	Patchy	SI		166.53	173.13	60	BTT	82.9	83.58	M		143.4	143.7	FRA	CP	0	traces	151	152	28165	0.0025	0.0025	0.053	143	2230
158.44	159.2	MSED		Metasediment					83.58	85.19	Moderate	Fract-Cont	CH		173.13	174.5		FOL	82.9	83.58	CG		144.6	148.2	BLB-DISS	PY		FRA: traces	152	153	28166	0.0025	0.0025	0.0025	213	231
157.82	158.44	MS		Massive sulphide					83.58	85.19	Moderate	Patchy	SI		173.13	174.5		FR	83.58	85.19	M		144.6	148.2	BLB-DISS	CP		FRA: traces	153	154	28167	0.0025	0.0025	0.0025	15	107
150.84	157.82	PSAM		Meta-Psammite					85.19	85.65	Weak	Fract-Cont	E		174.5	180.7		FR	83.58	85.19	MG		149	150.1	FRA	CP	1		154	155	28168	0.0025	0.011	0.009	6	23
148.48	150.84	MTVOL		Metavolcanic					85.19	85.65	Weak	Fract-Cont	CH		175	175.1		SHZ	85.19	85.65	M		150.8	157.8	DISS	PO		traces	155	155	28169	0.0025	0.056	0.014	242.5	7583.5
148.22	148.48	PSAM		Meta-Psammite					85.65	90.13	Moderate	Fract-Cont	CH		176.14	176.74		SHZ	85.19	85.65	CG		150.8	157.8	BLB-DISS	CP	1		28170	0.5	7.9045	0.4915	1630	1680		
144.61	148.22	MTVOL		Metavolcanic					85.65	90.13	Moderate	Fract-Cont	SI		177.37	178		SHZ	85.65	90.13	MG		157.8	158.4	BLB-DISS	CP	5		156	157	28171	0.0025	0.0025	0.058	71	1950
143.95	144.61	PSAM		Meta-Psammite					90.13	93.7	Moderate	Fract-Cont	CH		178.4	179.36		SHZ	85.65	90.13	M		157.8	158.4	SMASS	PO	55		157	158	28172	0.0025	0.012	0.0025	2680	2240
143.2	143.95	MTVOL		Metavolcanic					90.13	93.7	Moderate	Patchy	SI		179.75	180.25		SHZ	90.13	93.7	MG		158.4	159.2	ST	PY	5		158	159	28173	0.0025	0.013	0.0025	7840	7400
126.78	143.2	PSAM		Meta-Psammite					93.7	107.95	Moderate	Pervasive	CH		180.55	180.6		SHZ	90.13	93.7	M		158.4	159.2	BLB-DISS	CP	3		159	160	28174	0.0025	0.008	0.0025	6300	13000
124.73	126.78	MGAB		Melagabbro					93.7	94	Strong	Fract-Cont	SI		180.7	188.95	35	SCHS	93.7	107.95	M		158.4	159.2	ST	PO	35		160	161	28175	0.0025	0.0025	0.008	1310	7700
122.83	124.73	GAB		Gabbro									qtz veinlet	180.7	188.95	40	BTT	93.7	107.95	MG							SMASS	161	162	28176	0.0025	0.027	0.0415	603	3120	
120.63	122.83	PSAM		Meta-Psammite					93.7	94	Strong	Fract-Cont	CH		188.95	191.85	40	SCHS	107.95	109.27	M		159.2	159.7	ST	PY	10		162	163	28177	0.062	0.111	0.254	3900	27400
116.67	120.63	MGAB		Melagabbro					93.7	107.95	Moderate	Fract-Cont	SI		191.85	193.14	50	BTT	107.95	109.27	FG		159.2	159.7	SMASS	PO	50		163	164	28178	0.01	0.15	0.375	2530	33100
113	116.67	PSAM		Meta-Psammite					99.3	99.62	Strong	Fract-Cont	SI		99.52	193.14	193.32	VEIN	109.27	110.16	M		159.2	159.7	BLB-DISS	CP	4		164	165	28179	0.0025	0.134	0.095	1230	8720
112.66	113	MGAB		Melagabbro										99.58	193.52	194.09	45	BTT	109.27	110.16	MG		159.7	160.7	BLB-DISS	CP	5		28180	0.0025	0.0025	0.0025	20	171		
112.32	112.66	PSAM		Meta-Psammite									Qtz vein	110.16	193.52	194.09	45	SCHS	110.16	111.47	M		159.7	160.7	ST	PY	10		165	165	28181	0.006	0.04	0.064	598	4770
111.47	112.32	MGAB		Melagabbro					99.3	99.62	Strong	Fract-Cont	CH		194.09	194.8	45	SCHS	110.16	111.47	CG		159.7	160.7	ST	PO	10		166	167	28182	0.0025	0.238	0.278	4418	15160.5

Start Date: 28/Jan/08

Hole: HN-08-29

Southampton Ventures Inc.

Nothing: 6648636

Depth: 195 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903347

Elevation: 254.930m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
110.16	111.47	GAB		Gabbrc				101.7	101.8	Strong	Pervasive	SI						111.47	112.32	M		160.7	162.4	BLB-DISS	PY	1		167	168	28183	0.086	0.23	0.412	5720	40000			
109.27	110.16	MGAB		Melagabbro				105.6	107.84	Strong	Pervasive	CH						111.47	112.32	MG		160.7	162.4	BLB-DISS	CP	1		168	169	28184	0.024	0.349	0.866	3070	71400			
107.95	109.27	PXE		Metaxyroxenite				107	107.39	Strong	Fract-Cont	SI						112.32	112.66	MG		160.7	162.4	BLB-DISS	PO	1		169	170	28185	0.1	0.166	0.271	2920	31200			
93.7	107.95	MGAB		Melagabbro				107.95	109.27	Weak	Fract-Cont	CH						112.66	113	MG		162.4	162.8	ST	PO	20		170	171	28186	0.0025	0.0025	0.0025	188	4310			
90.13	93.7	PXE		Metaxyroxenite				107.95	109.27	Weak	Fract-Cont	SI						113	116.67	MG		162.4	162.8	ST	CP	15		171	172	28187	0.02	0.086	0.035	2000	7390			
95.65	90.13	MGAB		Melagabbro				109.27	110.16	Moderate	Pervasive	SI						116.67	120.63	MG	with some coarse grains	162.8	163.1	BLB-DISS	CP	5		172	173	28188	0.038	0.121	0.045	2030	7290			
95.19	85.65	QV		Quartz Vein				110.16	111.47	Strong	Pervasive	SI						120.63	122.83	FG		162.8	163.1	MASS	PO	60		173	174	28189	0.0025	0.0025	0.0025	114	659			
93.58	85.19	MGAB		Melagabbro				110.16	111.47	Strong	Pervasive	CH						122.83	124.73	M		163.1	168.5	BLB-DISS	CP	10		174	174.5	28191	0.022	0.0156	0.038	304	12400			
82.9	83.58	GAB		Gabbrc				111.47	112.32	Moderate	Pervasive	SI						122.83	124.73	CG		163.1	168.5	ST	PY	5		174.5	175	28192	0.049	0.222	0.119	200	879			
91.75	82.9	MGAB		Melagabbro				111.47	112.32	Moderate	Pervasive	CH						124.73	126.78	MG		163.1	168.5	ST	PO	15		175	176.1	28193	0.0025	0.0025	0.0025	152	3550			
80.95	81.75	PXE		Metaxyroxenite				112.32	112.66	Strong	Pervasive	BT						124.73	126.78	CG		166.5	168.9	BLB-DISS	CP	5		176.1	176.7	28194	0.0025	0.0025	0.0025	190	3440			
79.33	80.95	MGAB		Melagabbro				112.32	112.66	Strong	Pervasive	CH						126.78	143.2	FG		166.5	168.9	MASS	PO	85		176.7	177.4	28195	0.0025	0.0025	0.0025	95	402			
78.4	79.33	PXE		Metaxyroxenite				112.66	113	Strong	Pervasive	CH						143.2	143.95	FG		166.9	167.0	DISS	CP	2		177.4	178	28196	0.0025	0.0025	0.0025	977	239			
77.87	78.4	MD		Mafic Dyke				113	116.67	Moderate	Pervasive	SI						143.95	144.61	FG		167.0	167.9	ST	CP	18		178	178.5	28197	0.0025	0.0025	0.0025	51	87			
76.58	77.87	GAB		Gabbrc				113	116.67	Strong	Pervasive	BT						144.61	146.22	FG		167.0	167.9	SMASS	PO	57		178.5	179.2	28198	0.0025	0.006	0.0025	45	82			
75.58	76.58	LGAB		Leucogabbro				113	116.67	Strong	Fract-Cont	CH						146.22	146.48	FG		167.9	168.9		PO			179.2	179.7	28198	0.0025	0.0025	0.0025	26	8			
21.48	75.58	GAB		Gabbrc				116.67	120.63	Moderate	Fract-Cont	CH						148.48	150.84	FG		167.9	168.9	ST	CP	20				28200	0.009	0.136	0.055	21300	5100			
0	21.48	CAS		Casing				116.67	120.63	Strong	Pervasive	SI						150.84	157.82	FG		168.9	169.3	BLB-DISS	CP	5		179.7	180.2	30704	0.039	0.016	0.019	20	28			
								120.63	122.83	Moderate	Fract-Cont	CH						157.82	158.44	MG		168.9	169.3	MASS	PO	80		180.2	181	30705	0.0025	0.0555	0.037	31	27			
								120.63	122.83	Strong	Patchy	SI						157.82	158.44	B		169.3	170	ST	PO	15		181	182	30706	0.0025	0.053	0.038	28	31			
								122.83	124.73	Moderate	Pervasive	SI						158.44	159.2	MG	MG-CG	169.3	170	ST	CP	10		182	183	30707	0.0025	0.222	0.026	11	58			
								124.25	124.73	Strong	Fract-Cont	SI						159.2	159.78	MG		171.9	172.1	ST	PO	35		183	184	30708	0.008	0.091	0.049	11	49			
								124.73	126.78	Weak	Patchy	BT						159.2	159.78	B		171.9	172.1	ST	CP	15		184	185	30709	0.008	0.071	0.028	10	30			
								124.73	126.78	Moderate	Patchy	SI	Moderate to strong					159.78	162.46	MG		173.1	174.5	DISS	PY	1				30710	0.0025	0.008	0.0025	2	1			
								124.73	126.78	Moderate	Pervasive	CH						162.46	162.8	FG		174.5	160.7	FRA	PY	2	in the Qtz vein	163.1	163.6	30711	0.0025	0.0025	0.0025	28	23			
								126.78	129.36	Moderate	Pervasive	SI						162.8	163.1	B		191.8	193.1	BLB-DISS	PY	1												
								126.78	129.36	Moderate	Pervasive	CH						166.53	166.93	B		193.1	193.5	FRA	PY		traces											
								129.36	131	Strong	Patchy	SI						166.93	167.07	M		193.5	194.0	BLB-DISS	PY	1												
								129.36	131	Strong	Patchy	CH						166.93	167.07	FG		193.5	194.0	BLB-DISS	PY	1												
								131	134.14	Moderate	Pervasive	SI						167.07	167.9	B																		
								131	134.14	Moderate	Pervasive	CH						167.9	168.95	FG																		
								134.14	134.82	Strong	Patchy	SI						168.95	169.33	B																		
								134.14	134.82	Strong	Patchy	CH						169.33	173.13	FG																		
								134.82	140.23	Moderate	Pervasive	SI						168.33	173.13	BC																		
								134.82	140.23	Moderate	Pervasive	SI						173.13	174.5	B																		

Start Date: 28/Jan/08

Hole: HN-08-30

Southampton Ventures Inc.

Nothing: 6646668

Depth: 267 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903267

Elevation: 255.180 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
262.25	267	PSAM		Meta-Psammite	51	135.9	-58.5	MAG (nT) 57160	23.6	36	Strong	Patchy	M	strongly oxidized zone	42.75	42.75	90	CT	23.6	42.75	POIK	large 3 cm altered Px, possible poikiloblast?	23.6	36	FRA	PY		locally near cracks	27	27.8	23441	0.0025	0.0025	0.0025	597	140		
256.6	262.25	PEL		Metapelite	102	136.2	-58.2	MAG (nT) 57210							46.1	46.2	30	CT																				
254.9	256.6	MSED		Metasediment	150	136.4	-57.9	MAG (nT) 57230							47.8	48	40	SHZ					23.6	36	DISS	PO												
251.1	254.9	MVOL		Mafic Volcanic	201	136.5	-58	MAG (nT) 57130	23.6	42.75	Strong	Pervasive	CH		68.4	70	10	VEIN					23.6	36	PAT	MT	10	alteration	53.45	34.4	23444	0.007	0.0025	0.0025	498	69		
249.9	251.1	MSED		Metasediment	250	136.8	-57.6	MAG (nT) 57120	46.2	48	Strong	Pervasive	CH		73	73.5	30	VEIN	23.6	42.75	MG	locally coarser large grains	42.75	46.2	DISS	MT	1		88.25	89	23445	0.0025	0.0065	0.00375	318	228		
249.2	249.9	MS		Massive Sulphide					48	52.7	Strong	Pervasive	CH		92	93.5	65	FOL					68.5	66.7	FRA	CP			93.5	94.5	23446	0.008	0.016	0.007	122	174		
248.5	249.2	MSED		Metasediment					52.7	58.75	Strong	Pervasive	CH		117.25	138	45	FOL					93.5	96	DISS	PO		related to alteration	94.5	95.5	23447	0.0025	0.006	0.0025	282	244		
247	248.5	MVOL		Mafic Volcanic					58.75	66.8	Strong	Pervasive	CH		138	143.3	50	FOL											95.5	96.2	23448	0.007	0.0025	0.0025	160	12		
246	247	MS		Massive Sulphide					66.8	92	Weak	Fract-Cont	CH		143.3	148.2	50	CT					93.5	96	PAT	MT	1		107	108	23449	0.007	0.0025	0.0025	139	100		
237.7	246	MSED		Metasediment					66.8	92	Strong	Pervasive	CH		143.3	148.2	30	FOL	23.6	42.75	M		107	108	DISS	PY					23450	0.008	0.138	0.048	18000	8660		
236.85	237.7	QV		Quartz Vein					92	96	Moderate	Pervasive	CH		148.05	154.1	5	VEIN	30.5	31	BC		112.5	113.5	DISS	PY		trace local	112.4	113.2	23451	0.025	0.005	0.0025	1233	37		
235	236.85	MSED		Metasediment					93.5	96	Weak	Patchy	M		149.05	154.1	50	FOL	31.3	31.7	BC	highly broken zone						occur	129.7	130.6	23452	0.008	0.008	0.0025	34	80		
235.35	236	MS		Massive Sulphide					93.5	96	Moderate	Patchy	BT		159.3	159.5	20	CT					112.5	113.5	DISS	CP			132	133	23453	0.007	0.013	0.007	69	189		
233.5	235.35	PSAM		Meta-Psammite					93.5	96	Strong	Patchy	SI		160	160.9	45	FOL	42.75	43	VFG		112.5	113.5	FRA	PY		trace	134	135	23454	0.009	0.01	0.0025	48	64		
223.7	233.5	QGAB		Qtz bearing gneiss					96	98.9	Moderate	Pervasive	CH		160.9	164.6	90	CT	42.75	43	CM						ass. with late vein?	147	148	23455	0.018	0.007	0.005	111	71			
222.5	223.7	MGAB		Mafic Metagabbro					96.3	98	Weak	Pervasive	BT	"diss grains, secondary."	175.8	176.5	5	VEIN	43	46	MG								148.4	149.0	23456	0.007	0.0025	0.009	36	229		
218.9	222.5	PSAM		Meta-Psammite										177	177	45	VEIN	45.7	46.2	FG		148.2	149.0	DISS	CP		trace	155.0	155.9	23457	0.011	0.0136	0.007	110	363			
218.5	218.9	QV		Quartz Vein					206.9	213.9	55	FOL		206.9	213.9	55	FOL	46	46.2	CM		155.0	155.8	DISS	PY			158	157	23458	0.019	0.01	0.0025	87	201			
206.9	218.5	PSAM		Meta-Psammite					218.5	222.5	45	FOL		218.5	222.5	45	FOL	46.2	48	MG/CG		168.2	169	23459	0.0025				168.2	169	23459	0.0025	0.011	0.005	38	131		
200.9	206.9	MGAB		Mafic Metagabbro					98.9	102.5	Moderate	Pervasive	CH		227.1	227.45	35	VEIN	46.2	48	M						local			168	168.5	Vein	PY	0.0025	0.0025	0.0025	0.5	3
199.8	200.9	PSAM		Meta-Psammite					102.5	107	Moderate	Pervasive	CH		254.9	256.6	65	BT	48	52.7	MG/CG						related to			181	182	23461	0.01	0.025	0.008	69	177	
194.6	199.8	MGAB		Mafic Metagabbro					107	109.25	Weak	Pervasive	CH		256.6	262.25	80	FOL	48	52.7	M						late Qtz vein?	187	168	23462	0.015	0.039	0.012	242	438			
193.9	194.6	GAB		Gabbro					109.25	138	Weak	Pervasive	CH	relatively fresh.					52.7	58.75	M		174.2	174.5	Vein	CP		trace	208.7	209.7	23463	0.008	0.016	0.014	136	469		
192.6	193.9	MGAB		Mafic Metagabbro										52.7	58.75			52.7	58.75	MG/CG						related to			209.7	210.7	23464	0.011	0.027	0.024	94	1240		
191.7	192.6	PSAM		Meta-Psammite					112.5	113.1	Moderate	Pervasive	BT		58.75	66.8			58.75	66.8	M						late Qtz vein?	210.7	211.5	23465	0.006	0.009	0.011	65	297			
183.7	191.7	MGAB		Mafic Metagabbro					135	138	Weak	Patchy	SI		58.75	65.8			58.75	65.8	MG/CG						vein?	211.5	212.5	23466	0.01	0.016	0.017	124	573			
180.1	183.7	GAB		Gabbro					138	143.3	Fract-Cont	CH	very weak, only local mm sized fractures.		65.8	92			65.8	92	M		177	177.5	Vein	PO			212.5	213.5	23467	0.031	0.062	0.175	216	3020		
177.55	180.1	MGAB		Mafic Metagabbro										65.8	92			65.8	92	MG/CG	locally CG altered Px	178.1	178.6	DISS	PO		trace	213.5	214.5	23468	0.013	0.021	0.069	111	1290			
177	177.55	GAB		Gabbro																						sulphides, related to			215.4	216.4	23469	0.298	0.055	0.205	333	6230		
164.6	177	MGAB		Mafic Metagabbro																							Qtz veins?	217	218	23471	0.019	0.056	0.137	243	2190			
160.9	164.6	LGAB		Leucogabbro																																		
160	160.9	PSAM		Meta-Psammite																																		
159.3	160	GAB		Gabbro					138	143.3	Weak	Pervasive	CH						92	96	M						trace			218	218.5	23472	0.023	0.036	0.067	994.5	3085	
155.8	159.3	LGAB		Leucogabbro					143.3	148.2	Weak	Fract-Cont	SI						92	96	FG	containing FS																
149.05	155.8	MGAB		Mafic Metagabbro					143.3	148.2	Moderate	Pervasive	BT						195	196	DISS						trace			219.6	220.4	23475	0.062	0.126	0.1315	270	6130	
148.2	149.05	MD		Mafic Dyke					148.2	149.05	Weak	Pervasive	CH						96	96.9	MG																	

Start Date: 28/Jan/08

Hole: HN-08-30

Southampton Ventures Inc.

Nothing: 6648668

Depth: 267 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303267

Elevation: 255.180 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays																				
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm											
	200.9		204.1															FG/IG		local CG (2-5mm) Px, 5%	251.1	254.9	DISS	CP	1																						
	204.1		208.9															MG/CG		contains large (2 cm) Px grains, MG matrix"	254.9	256.6	BLB-DISS	PO	2														+ small magnetite stringer at 255.43								
	206.9		213.9															FG			261.8	262.2	DISS	CP	2																						
	212.4		216.5															FG/IG			261.8	262.2	DISS	PO	2																						
	212.4		212.85															BC			264.9	265.1	DISS	CP	2																						
	218.5		216.9															M																													
	218.9		222.5															FG																													
	222.5		223.7															BC																													
	222.5		223.7															CG																													
	223.7		225															BC																													
	223.7		233.5															M																													
	223.7		232															MG																													
	232.7		233.5															CM																													
	232.7		233.5															FG		becomes VFG towards end																											
	233.5		235.35															M																													
	233.5		235.35															FG/IG																													
	235.35		236															M																													
	236		236.5															MG																													
	236.5		236.85															BC																													
	236.5		236.85															FG																													
	236.85		237.7															M																													
	237.7		246															FG/IG																													
	247		248.5															FG																													
	248.5		249															FG																													
	249		249.2															MG		coarser - more feldspar																											
	249.9		251.1															FG/IG																													
	254.9		256.6															FG																													
	256.6		262.25															POBL		Crd																											
	256.6		262.25															FG/IG																													
	259.65		260															BC																													

Start Date: 28/Jan/08

Hole: HN-08-30

Southampton Ventures Inc.

Nothing: 6646666

Depth: 267 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303267

Elevation: 255.180m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization					Assays																																																																																																																																									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm																																																																																																																															
																																																												261	262	POBL	Gr																																						262.25	267	POBL	Cordierite																																						262.25	267	FG/IMG																			
																			261	262	POBL	Gr																																						262.25	267	POBL	Cordierite																																						262.25	267	FG/IMG																																																												
																			262.25	267	POBL	Cordierite																																						262.25	267	FG/IMG																																																																																																					
																			262.25	267	FG/IMG																																																																																																																																														

Start Date: 28/Jan/08

Hole: HN-08-31

Southampton Ventures Inc.

Nothing: 6646666

Depth: 281 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303267

Elevation: 255.132 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
								233.59	236.31	Strong	Patchy	BT	replacement of old minerals					271.85	274.79	INI	Injected sulphides along fractures and veins.							256	258.5	24251	0.1	0.097	0.149	1460	16300
								258.37	271.85	Moderate	Fract-Cont	SI						274.79	276.28	M							258.5	259	24252	0.084	0.121	0.065	4100	16900	
																		276.29	281.1	FG	Siltstone						261	262	24254	0.0025	0.0025	0.0025	109	1100	
																		281.1	282.39	FG							262	263	24255	0.0616	0.1115	0.269	502.5	7750.5	
																		282.39	282.69	FG							263	264	24256	0.17	0.16	0.162	446	12300	
																		282.69	286.19	FG							264	264.5	24257	0.108	0.155	0.215	2360	17600	
																											264.5	265	24258	0.122	0.371	0.24	240	6270	
																											265	265.5	24259	0.105	0.159	0.265	2800	24600	
																											265	265.5	24260	0.0025	0.0025	0.0025	3	44	
																											265.5	266	24261	0.029	0.046	0.061	307	16000	
																											266	266.5	24262	0.337	0.157	0.177	2210	56400	
																											266.5	267	24263	0.027	0.116	0.662	341	13100	
																											267	267.5	24264	0.042	0.144	0.634	2360	20900	
																											267.5	268	24265	0.0025	0.0025	0.044	336	2950	
																											268	268.5	24266	0.0025	0.0025	0.0025	196	1650	
																											268.5	269	24267	0.0025	0.0025	0.027	177	1780	
																											269	269.5	24268	0.0025	0.1	0.453	269	13550	
																											269.5	270	24269	0.015	2.567	3.5985	1460	87900	
																											270	270.5	24270	0.351	3.76	0.222	1240	1330	
																											270	270.5	24271	0.0025	0.0025	0.012	103	890	
																											270.5	271	24272	0.0025	0.018	0.032	51	1130	
																											271	271.5	24273	0.0025	0.0025	0.0025	39	567	
																											271.5	272	24274	0.019	0.0025	0.067	1090	20000	
																											272	272.5	24275	0.067	0.184	0.255	3650	32350	
																											272.5	273	24276	0.025	0.097	0.919	1887	28163.5	
																											273	273.5	24277	0.05	0.136	0.168	2350	122500	
																											273.5	274.5	24278	0.057	0.923	0.226	810	10900	
																											274.5	275	24279	0.21	0.592	0.971	3600	26100	
																														24280	0.0025	0.0025	0.0025	64	467
																											275	275.5	24281	0.183	0.164	0.144	9000	6470	
																											275.5	276	24282	0.049	0.364	0.058	9710	7010	
																											276	276.5	24283	0.017	0.268	0.168	4960	3690	
																											276.5	277	24284	0.166	0.4	1.005	184	5660	
																											277	277.5	24285	0.012	0.021	0.092	298	870	
																											277.5	278	24286	0.0025	0.016	0.023	63	206	

Start Date: 28/Jan/08	Hole: HN-08-32	Southampton Ventures Inc.	Nothing: 5646737	Depth: 360 m
Completed Date: 30/Jan/08	Project: SV-HDN	Diamond Core Log Sheet	Easting: 303195	Elevation: 254.810m
Azimuth: 124	Property: Horden Lake		Projection: UTM NAD83 Zone 18N Hole Diameter: NQ	
Dip: -59.8	Logged By: landry		Supervisor: []	
Survey Method: Reflex Maxibor	Date: 26/04/2008	Storage Location: Horden Lake		

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
								251.8	253.6	Strong	Pervasive	BT						179.1	183	CG								327	328	30595	0.021	0.048	0.167	110	2820				
								251.8	253.8	Moderate	Patchy	SI						183	183.1	FG/IMG							328	329	30596	0.0025	0.0025	0.007	12	1180					
								254.3	259.15	Weak	Pervasive	BT						183.1	183.3	FG/IMG							329	330	30597	0.0025	0.0025	0.0025	58	113					
								259.15	262.4	Moderate	Patchy	CH						183.3	185.5	FG/IMG							330	331	30598	0.0025	0.0025	0.0025	11	43					
								259.15	282.4	Moderate	Patchy	SI						186.5	189.1	M							331	332	30599	0.0025	0.0025	0.0025	8	100					
								262.4	264.5	Weak	Pervasive	BT						186.5	189.1	FG/IMG																			
								264.5	285.4	Weak	Patchy	CH						189.1	195.6	FG							332	333	30601	0.0025	0.0025	0.0025	12	39					
								264.5	265.4	Strong	Patchy	BT						189.1	189.9	VFG							333	334	30602	0.0025	0.0025	0.0025	13	182					
								264.5	285.4	Moderate	Patchy	SI						195.6	196.45	VFG							334	335	30603	0.0025	0.0025	0.0025	11	81					
								265.4	280.95	Weak	Pervasive	CH						196.45	203.5	MG							335	336	30604	0.0025	0.0025	0.0025	37	1840					
								280.95	282.25	Moderate	Patchy	CH						196.45	210.9	M							336	337	30605	0.0025	0.0025	0.0025	19	1280					
								280.95	282.25	Strong	Patchy	SI						203.5	207.25	MG/CG							337	338	30606	0.0025	0.0025	0.0025	14	207					
								280.95	282.25	Strong	Patchy	BT						207.25	210.5	CG							338	339	30607	0.01	0.0025	0.0025	33	32					
								282.25	283.5	Weak	Pervasive	CH						207.25	209.85	MG																			
								283.5	287.6	Moderate	Pervasive	CH						207.25	208.1	FG/IMG																			
								285.35	288	Moderate	Fract-Cont	CH						210.4	210.9	FG/IMG																			
								287.6	289.6	Strong	Pervasive	CH						210.9	211	BC																			
								289.6	293	Moderate	Pervasive	CH						211	220.1	FG/IMG																			
								289.6	293	Weak	Fract-Cont	SI	locs 2 cm veins (3 in total)					211	231.3	M																			
								291.8	292	Moderate	Patchy	SI						220.1	221.3	CG																			
								293	298.35	Strong	Pervasive	CH						221.3	231.3	MG	locally fg																		
								298.35	299.75	Moderate	Pervasive	CH						224.3	228.6	POIK	minor Pl poik (small white spots)																		
								299.75	300.2	Weak	Fract-Cont	C						230.3	231.3	FG/IMG																			
								299.75	302.5	Strong	Pervasive	CH						231.3	231.55	VFG																			
								302.5	304	Moderate	Pervasive	CH						231.55	233	FG/IMG																			
								304	305.7	Strong	Pervasive	CH						231.55	233	M																			
								305.7	308.35	Moderate	Pervasive	CH						233	233.5	VFG																			
								307.6	308.35	Moderate	Pervasive	SI	foliated part					233.5	234.25	FG/IMG																			
								307.6	308.35	Moderate	Pervasive	BT	foliated part					234.25	234.6	CM																			
								308.35	312.9	Moderate	Pervasive	CH						234.25	234.6	VFG																			
								312.9	315.05	Strong	Pervasive	CH						234.25	248.7	M	local weak foliation																		
								313.9	314	Moderate	Fract-Cont	CA						234.6	237.1	FG																			

Start Date: 28/Jan/08

Hole: HN-08-32

Southampton Ventures Inc.

Northng: 6646737

Depth: 360 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803195

Elevation: 254.810m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -58.8

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
																		302.5	303.3	CG																			
																			302.5	304	M																		
																			303.3	304	MG	equigranular Pl and Px																	
																			304	307.6	M																		
																			304	308.35	MG/CG	equigranular																	
																			308.35	308.65	CM																		
																			308.35	308.65	VFG																		
																			308.35	315.05	M																		
																			308.65	315	FG																		
																			309.1	309.95	BC																		
																			312.8	313	BC																		
																			313.6	315	BC																		
																			315.27	320	MG/CG																		
																			315.27	320	BC																		
																			320	322.05	CG	preserved px shape																	
																			322.95	327.6	FG	"Qtz-Fpar, minor Chl"																	
																			324.5	325	POBL	altered Cro																	
																			327.6	330.25	POBL	Crd																	
																			327.6	330.25	FG/MG	"Bt-Chl Schists, with MG-CG Crd"																	
																			330.85	331.8	BC																		
																			330.85	342.75	POBL	Crd (MG-CG)																	
																			330.85	333.1	FG/MG	"Bt-schists with Crd, minor Chl, Ms"																	
																			333.1	340.4	FG	"Ms schists, minor Chl, Bt"																	
																			340.4	342.75	FG	Bt-metasemipellit e																	
																			342.75	343.2	FG																		
																			343.2	344.25	MG																		

Start Date: 28/Jan/08

Hole: HN-08-32

Southampton Ventures Inc.

Nothing: 6646737

Depth: 360 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803195

Elevation: 254.810m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -58.8

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
																		344.25	346.1	FG	mixed with minor re-etased material (interbedded)																		
																		346.1	349.45	POBL	Crd and Gr, CG"																		
																		346.1	349.45	FG/MG	"Bl schists, minor Chl"																		

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization				Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
								325.88	329.31	Strong	Pervasive	A						356.32	356.67	M								294	295	26789	0.036	0.05	0.144	109	2330			
								332	333	Strong	Pervasive	SI						356.32	356.67	CG	MG-CG							296	296	26791	0.0025	3.767	0.2165	1250	1310			
																		356.67	360.89	MG								298	298	26792	0.0025	0.0025	0.0025	279	227			
																		360.89	361.57	FG	FG-MG							297	297	26793	0.0025	0.0025	0.0025	396	433			
																		361.57	362.15	M								298	298	26794	0.0025	0.0025	0.0025	351	116			
																		361.57	362.15	CG	MG-CG							299	299	26795	0.0025	0.0025	0.0025	352	113			
																		362.15	363.92	FG								300	300	26796	0.0025	0.0025	0.0025	359	149			
																		362.15	363.92	CG								301	301	26797	0.0025	0.0025	0.0025	103	120			
																		363.92	366	MG								302	302	26798	0.025	0.01	0.0025	97	135			
																												303	303	26799	0.0025	0.0025	0.0025	268	225			
																															26800	0.089	0.134	0.05	18700	8920		
																															26801	0.0025	0.0025	0.0025	159	223		
																															26802	0.0025	0.0025	0.0025	49	106		
																															26803	0.0025	0.016	0.0025	279	192		
																															26804	0.0025	0.031	0.0025	278	130		
																															26805	0.036	0.1	0.031	309	217		
																															26806	0.036	0.073	0.0025	539	531		
																															26807	0.084	0.123	0.117	305	751		
																															26808	0.036	0.176	0.1575	718	2640		
																															26809	0.0025	0.0025	0.0025	352	755		
																															26810	0.0025	0.0025	0.0025	8	21		
																															26811	0.039	0.074	0.14	233	1720		
																															26812	0.06	0.085	0.067	302	1030		
																															26813	0.012	0.028	0.062	119	872		
																															26814	0.011	0.022	0.009	106	217		
																															26815	0.005	0.011	0.008	83	132		
																															26816	0.006	0.023	0.009	259	507		
																															26817	0.082	0.153	0.041	1630	2520		
																															26818	0.036	0.472	0.069	6300	5230		
																															26819	0.04	0.209	0.061	3560	6310		
																															26820	0.091	3.833	0.22	1420	1430		
																															26822	0.016	0.085	0.065	3160	5900		
																															325 3	325 3	26823	0.042	0.109	0.311	1670	10650
																															325 6	325 6	26824	0.074	0.874	0.0256	13900	3460
																															327	327	26825	0.045	0.164	0.063	1790	5480

Start Date: 28/Jan/08

Hole: HN-08-34

Southampton Ventures Inc.

Nothing: 6646614

Depth: 130 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303385

Elevation: 255.483 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -45

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
116.5	130	PSAM		Meta-Psammite	51	132.2	-44.8	MAG (NT) 56710	23.44	32.63	Moderate	Patchy	SE	"Grz nodules, more	29.77	29.88	47	VEIN	23.44	32.63	FG		78.15	83.4	BLB-DISS	CP	1		44.64	45.85	23949	0.0025	0.0025	0.0025	51	179	
114.4	116.5	MS		Massive Sulphide	102	132.3	-44.7	MAG (NT) 56690							29.77	29.87	75	VEIN	32.63	65.43	FG/MG	light gray, salt and pepper.	83.4	89.47	DISS	PY	1				23950	0.469	6.951	0.469	1430	1440	
103.39	114.4	PSAM		Meta-Psammite	130	132.2	-44.5	MAG (NT) 56830							61	83.76	50	VEIN					89.47	101.3	DISS	PY	1	highly varies	46.43	46.93	23951	0.006	0.012	0.0025	162	195	
101.33	103.39	MGAB		me gacabro, var:meta										concentrat	68	78.15	55	VEIN	65.43	68	FG		101.3	103.3	BLB-DISS	PY	1		63.5	64.5	23952	0.0025	0.013	0.012	143	447	
89.47	101.33	MGAB		me gacabro, var:meta										ed in	99.52	99.77	80	DYKE	68	78.15	MG/CG		101.3	103.3	BLB-DISS	CP	1		64.5	65.5	23953	0.006	0.009	0.0025	66	129	
83.4	89.47	LGAB		leucogabro, var:met										coarser grain"	99.93	103	80	DYKE	78.15	83.4	MG		101.3	103.3	BLB-DISS	PO	3		65.5	66.5	23954	0.0025	0.008	0.0025	71	35	
78.15	83.4	LGAB		leucogabro, var:met											103.39	114.4	50	FR	83.4	89.47	M		103	103.3	ST	CP	3		66.5	67.5	23955	0.012	0.043	0.008	220	308	
68	78.15	MGAB		me gacabro, var:meta					44.64	45.85	Strong	Pervasive	SI	associated with veinlets	1*4.4	116.5	50	FR	83.4	89.47	CG		103	103.3	ST	PY	1		80.5	81.5	23956	0.012	0.021	0.04	115	1580	
65.43	68	GAB		Gabbrc											116.5	130	90	FZ	89.47	101.33	MG/CG		103	103.3	ST	PO	5		95	96	23957	0.026	0.028	0.031	245	583	
32.63	65.43	GAB		Gabbrc															101.33	103.39	MG		108.5	114.4	ST	PY	4		98	97	23958	0.011	0.059	0.014	171	399	
23.44	32.63	GAB		Gabbrc					46.43	46.93	Weak	Fract-Cont	CA	associated with veinlets					103.39	114.4	BC	med blocky, perp to CA"	108.5	114.4	ST	CP	3		97	98	23959	0.009	0.043	0.005	157	276	
0	23.44	CAS		Casing					46.43	46.93	Strong	Pervasive	SI	associated with veinlets					103.39	114.4	FG/MG		114.4	116.5	MASS	PENT	15		98	99	23961	0.01	0.025	0.009	124	210	
																			114.4	116.5	BC	very blocky	114.4	116.5	MASS	CP	20		99	100	23962	0.0025	0.0025	0.0025	56	115	
																			116.5	130	BC	Very along CA	114.4	116.5	MASS	PO	85		100	101	23963	0.009	0.008	0.076	52	106	
																							116.5	130	FRA	PY	1	minor	101	102	23964	0.055	0.074	0.156	31	542	
																													102	103	23965	0.0365	0.0525	0.195	887	5905	
																													103	104	23966	0.03275	0.11575	0.12625	349	4650	
																													104	105	23967	0.0075	0.02	0.129	27	269	
																													105	106	23968	0.0025	0.0025	0.053	7	16	
																													106	107	23969	0.0025	0.0025	0.023	52	90	
																														107	108	23970	0.0025	0.0025	0.0025	0.5	3
																														108	109	23972	0.121	0.093	0.066	2540	6700
																														109	110	23973	0.076	0.164	0.136	1860	6100
																														110	111	23974	0.072	0.159	0.067	1440	5210
																														111	112	23975	0.046	0.102	0.033	1660	2410
																														113	114	23976	0.025	0.342	0.278	201	15600
																														114	114.5	23977	0.116	0.186	0.907	2025	3305
																														114.5	115	23978	0.1	0.139	0.2605	4970	26300
																														115	115.5	23979	0.125	0.197	0.227	8050.5	18825
																														115.5	115	23980	0.498	7.974	0.4915	1420	1580
																														116	118	23982	0.012	0.028	0.055	985	6740
																														116	119	23983	0.0025	0.0025	0.0025	40	141
																														119	120	23984	0.0025	0.0025	0.0025	21	50

Start Date: 28/Jan/08

Hole: HN-08-35

Southampton Ventures Inc.

Nothing: 6646615

Depth: 167 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903385

Elevation: 255.283 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: Ian Dry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization					Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
150.34	156.8	PGNE		Gneiss	51	129.9	-69.1	MAG (NT) 57640	66.26	68	Strong	Pervasive	SI	dark gray	47.5	50	40	VEIN	26.3	28.82	MG/CG		62.26	66	DISS	CP	1		84	85	23796	0.0025	0.016	0.0515	97	812
145	150.34	SSH		Metased-Schists	102	130.8	-69	MAG (NT) 56610						hard rock	63.03	63.66	70	VEIN	26.3	36	POR	Qtz porphyro	63.31	66.8	DISS	PY	1		85	86	23797	0.0025	0.043	0.134	179	2610
140.5	146	PSAM		Meta-Psammite	150	130.3	-68.7	MAG (NT) 56650			Weak	Patchy	SR		79.87	83.31	60	FOL					83.31	86.8	DISS	PO	1		95	96	23798	0.0025	0.0025	0.018	75	598
135.7	140.5	MS		Massive Sulphide					79.87	83.31	Moderate	Patchy	BT	"Intense	109.65	112	55	FOL	53	60	MG	lighter coloured	83.31	86.8	DISS	CP	2		96	97	23799	0.0025	0.03	0.065	161	2620
133.33	135.7	PSAM		Meta-Psammite									at	112	128.85	55	FOL				gabro (light	86.8	93.3	DISS	PY	1	less than 1			23800	0.0025	0.0025	0.0025	0.5	4	
130.79	133.33	MS		Massive Sulphide									contact	128.85	130.79	55	VEIN				gray)	93.3	96.4	BLB-DISS	PO	1		97	98	23801	0.0025	0.0025	0.0025	26	24	
128.85	130.79	PSAM		Meta-Psammite									with	133.33	135.69	15	VEIN	60	83.31	FG	dark bluish	93.3	96.4	BLB-DISS	CP	3		98	98.5	23802	0.038	0.244	0.199	2610	5270	
112	128.85	SSH		Metased-Schists									metasedim	133.33	135.7	5	VEIN				gray, spotted	93.3	96.4	BLB-DISS	PY	2		98.5	99	23803	0.015	0.037	0.234	254	12650	
109.65	112	MVOL		Mafic Volcanic									ents. the	144.52	145.25	65	VEIN				black"	96.4	96.6	FRA	CP	5	associated	99	100	23804	0.0025	0.041	0.102	112	3370	
93.3	109.65	PSAM		Meta-Psammite									igneous	146	150.34	60	FOL	83.31	86.8	MG	Bl + amphiboles					with 10cm	100	101	23805	0.0025	0.006	0.011	66	752		
86.8	93.3	SSH		Metased-Schists									rocks are	150.34	156.8	60	FOL	83.31	86.8	M	purple grayish					qtz vein.	100	102	23806	0.0025	0.036	0.024	108	1080		
83.31	86.8	GAB		Gabbro									patchy									blue	96.4	96.6	FRA	PY	4	associated	102	103	23807	0.0025	0.011	0.015	70	842
17.96	83.31	GAB		Gabbro									brown in					86.8	83.3	POR					with 10cm	103	104	23808	0.007	0.0275	0.0935	184	1430			
0	17.96	CAS		Casing									a green					86.8	83.3	MG/CG	quartzite to				qtz vein.	104	105	23809	0.0025	0.026	0.033	162	1070			
													rock"									sandstone	102.7	109.6	DISS	PY	1	along			23810	0.097	0.16	0.051	21050	9280
																		93.3	109.65	M	Light gray to					silicified	105	106	23811	0.0025	0.047	0.021	115	448		
													altered					93.3	109.65	FG/MG	silicified				zone	122	123	23812	0.0025	0.008	0.0025	14	31			
													to Bt.					109.65	112	FG/MG	zone				along	123	124	23813	0.0025	0.0025	0.0025	9	122			
													Associated					112	128.85	MG/CG	silicified				zone	125	126	23815	0.0025	0.0025	0.0025	7	31			
													with					112	128.85	POR	cordierite	109.6	112	DISS	CP	1		126	127	23816	0.0025	0.0025	0.0025	7	11	
													chlorite					128.85	130.79	BC	bit blocky	109.6	112	DISS	PY	1		127	128	23817	0.0025	0.0025	0.0025	13	4	
													Protolith					130.79	131.75	M	massive	130.7	133.3	BLB-DISS	PY	3		128	129	23818	0.0025	0.011	0.015	70.5	877.5	
													could					130.79	133.33	BLB-DISS	sulphides	130.7	133.3	BLB-DISS	CP	12		129	130	23819	0.036	0.062	0.543	1240	7400	
													have					131.75	133.33	BC	Very blocky at	130.7	133.3	BLB-DISS	PO	20				23820	0.0025	0.0025	0.0025	0.5	6	
													been a									end of interval	130.7	132.0	SMASS	PY	5		130	130.5	23821	0.057	0.245	1.068	503	15900
													volcanic?					108.6	109	Moderate	Patchy	M				zone	130.5	131	23822	0.186	0.782	0.498	2800	40700		
																		133.33	135.7	M						zone	131	131.5	23823	0.779	0.573	2.363	3970	80000		
																		135.7	140.5	M						zone	131.5	132	23824	0.052	0.693	0.662	4920	70700		
																		137.2	140.5	BC	in massive	133.3	135.7	DISS	PY	2		131.5	132	23824	0.052	0.693	0.662	4920	70700	
																						sulphides, very	135.7	140.5	SMASS	PY	10		132	132.5	23825	0.029	0.205	0.415	5310	41000
																						blocky"	135.7	140.5	SMASS	CP	25		132.5	133	23826	0.022	0.102	0.767	2220	50100
																						forest	135.7	140.5	SMASS	PO	4		133	133.5	23827	0.027	0.044	0.375	242	14200
																						green"	140.5	146	BC				133.5	134	23828	0.021	0.023	0.12	151	5510
																						Bt and	140.5	146	DISS	CP	1		133.5	134	23828	0.021	0.023	0.12	151	5510
																						sericite	146	150.34	FG/MG	PY	5		134	134.5	23829	0.0025	0.0025	0.009	59	303
																						alteration	150.34	156.8	FG/MG	PO	15		134.5	135	23831	0.01	0.0025	0.006	61	477

Start Date 28/Jan/08

Hole: HN-08-35

Southampton Ventures Inc.

Northing: 6646615

Depth 167 m

Completion Date 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303385

Elevation: 255.283m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
	112							112	128.85	Strong	Patchy	SR																135	135.5	23832	0.0025	0.0025	0.0025	51	211	
	145.7							145.7	145.9	Strong	Fract-Cont	BT																135.5	135	23833	0.025	0.068	0.063	2620	3520	
	146							146	150.34	Strong	Pervasive	BT	along fabric															136	136.5	23834	0.074	0.152	0.257	4160	7380	
																												135.5	137	23835	0.0025	0.111	0.247	5260	37400	
																												137	137.5	23836	0.0025	0.131	0.158	4762.5	14823.5	
																												137.5	138	23837	0.052	0.269	0.205	2940	18100	
																												138	138.5	23838	0.044	0.39	0.319	3760	44700	
																												138.5	139	23839	0.102	0.371	0.441	5500	31500	
																														23840	0.0025	0.0025	0.0025	2	15	
																												139	139.5	23841	0.032	0.22	0.447	5940	46500	
																												139.5	140	23842	0.072	0.239	0.415	8540	24400	
																												140	140.5	23843	0.028	0.196	0.214	2210	28200	
																												140.5	141	23844	0.135	0.3356	0.2725	634	9290	
																												141	141.5	23845	0.085	0.127	0.185	253	13300	
																												141.5	142	23846	0.029	0.043	0.226	187	16600	
																												142	142.5	23847	0.023	0.053	0.213	135	6200	
																												142.5	143	23848	0.107	0.145	0.663	2260	24200	
																												143	143.5	23849	0.025	0.221	0.269	1390	8070	
																														23850	0.036	0.149	0.062	21050	8350	
																												143.5	144	23851	0.021	0.054	0.24	264	4600	
																												144	144.5	23852	0.035	0.068	0.23	623	4390	
																													144.5	145.2	23853	0.0025	0.006	0.033	69	747
																													145.2	145	23854	0.0025	0.012	0.008	179	950
																													146	147	23855	0.0025	0.0025	0.0025	18	54
																													147	148	23856	0.0085	0.0025	0.0025	14	35
																													148	149	23857	0.0025	0.0025	0.0025	9	18
																													149	150	23858	0.0025	0.0025	0.0025	14	47
																													150	151	23859	0.0025	0.0025	0.0025	9	39
																														23860	0.089	0.135	0.054	21150	8450	
																													151	152	23861	0.009	0.006	0.0025	19	49
																													152	153	23862	0.0025	0.0025	0.0025	9	7
																													153	154	23863	0.0025	0.0025	0.0025	9	11
																													154	155	23864	0.0025	0.0025	0.0025	27	541
																													155	156	23865	0.0025	0.0025	0.0025	10	101
																													156	156.6	23866	0.0025	0.0025	0.0025	17	152

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	PL_ppm	PI_ppm	Au_ppm	Ni_ppm	Cu_ppm
0	20	CAS		Casing	111	123.5	-67.8		150	150.2	Strong	Fract-Cont	CH					71.5	74.25	MG		148.9	149.7	BLB	PO	10	+ minor stringer	137.5	138	30644	0.0025	0.0025	0.0025	198	468	
					114	123.5	-67.8		150	151.9	Weak	Patchy	CH					74.25	79.3	M									138	139	30645	0.0025	0.016	0.0025	797	1450
					117	123.5	-67.8		151.9	152.35	Strong	Pervasive	SI					74.25	79.3	MG/CG		148.9	149.7	BLB	CP	2	+ minor stringer	139	140	30646	0.0025	0.031	0.0025	851	1560	
					120	123.6	-67.7		152.35	154.6	Moderate	Fract-Cont	SI					79.3	84.85	MG/CG								140	141	30647	0.0025	0.0025	0.0025	1730	3160	
					123	123.6	-67.7		152.35	154.6	Moderate	Fract-Cont	CH					79.3	81.8	MG		150	150.2	CON	CP	1	near qtz vein contact	141	142	30648	0.604	0.488	0.007	348	184	
					126	123.5	-67.7		154.6	155.4	Strong	Fract-Cont	SI					81.8	85.35	M							142	143	30649	0.587	0.593	0.014	601	-409		
					129	123.5	-67.6		155.4	159.3	Weak	Fract-Cont	SI					84.85	85.35	CG		150	151.9	DISS	MT			143	143.5	30650	0.106	0.134	0.049	21700	9250	
					132	123.6	-67.6		155.4	159.3	Weak	Fract-Cont	CH	local dense black patches				85.35	90.3	M		151.9	152.3	BLB-DISS	CP	5		143	143.5	30651	0.254	0.462	0.832	3410	8780	
					135	123.5	-67.6		159.3	162.62	Strong	Patchy	CH					85.35	90.3	CG		152.3	154.6	DISS	MT			143.5	144	30652	0.101	0.187	0.565	2291	6418.5	
					138	123.5	-67.6											90.3	91.5	M		155.4	159.3	DISS	MT	2		144	145	30653	0.108	0.137	0.8975	501	5250	
					141	123.6	-67.5											90.3	91.5	MG/CG		157.7	158.0	ST	PY	10		145	145	30654	0.087	0.094	0.307	645	3670	
					144	123.7	-67.5		162.8	163.39	Strong	Patchy	CH					91.5	94.8	MG		157.7	158.0	DISS	CP	2		146	146.5	30655	0.091	0.096	0.133	595	8460	
					147	123.6	-67.4		184.3	190.45	Weak	Patchy	E					94.8	95.45	FG/MG		157.7	158.0	ST	PO	8		146.5	147	30656	0.061	0.107	0.869	369	5480	
					150	123.5	-67.4		184.3	190.45	Weak	Patchy	SR					95.45	116.7	M		159.3	162.6	DISS	MT	1		147	148	30657	0.062	0.026	0.197	210	1410	
					153	123.6	-67.3											95.45	123.95	FG	Bi-Chl rich melapsammites, minor Ms. Hbl, Mag"	159.3	160	DISS	CP	1		148	148.9	30658	0.025	0.0025	0.0025	1340	2380	
					156	123.6	-67.3															159.3	160	DISS	PO	10		148.9	149.5	30659	0.01	0.055	0.012	2960	4200	
					159	123.6	-67.1															160	161	SMASS	PO	20				30660	0.0025	0.0025	0.0025	13	20	
					162	123.7	-67.3															160	161	SMASS	CP	15		149.5	150	30661	0.016	0.073	0.098	90	705	
					165	123.6	-67.1											101.5	105	POBL	Cr'd	161	161.5	SMASS	PO	25		150	151	30662	0.0025	0.0025	0.051	44	308	
					168	123.6	-67.1											112	116.7	POBL	Alth possible Sil"	161	162	DISS	CP	5		151	151.9	30663	0.0025	0.0025	0.0025	32	57	
					171	123.7	-67.2															161.5	162.6	DISS	PO	2		151.9	152.3	30664	0.0025	0.035	3.08	216	9610	
					174	123.7	-67.2											119.3	120	BC		162.8	162.8	MASS	PO	95		152.3	153	30665	0.0025	0.0025	0.0025	41	308	
					177	123.6	-67.2											123.95	126.75	MG		162.8	163.3	DISS	CP	5		153	154	30666	0.0025	0.0025	0.012	32	101	
					180	123.6	-67.1											126.75	127.4	MG		162.8	163.3	DISS	PO	15		154	154.6	30667	0.0025	0.0025	0.0025	39	110	
					183	123.6	-67.1											127.4	127.55	M		163.3	164.7	BLB-DISS	PY	3		154.6	155.4	30668	0.0025	0.0025	0.0025	26	253	
					189	124	-67.1											127.4	127.55	FG		163.3	164.7	MASS	PO	80		155.4	156.5	30669	0.0025	0.0025	0.0025	28	219	
																		127.55	129.15	MG		163.3	164.7	BLB-DISS	CP	3		155.4	156.5	30670	0.0015	3.8415	0.2225	1260	1250	
																		129.15	130.9	MG/CG		164.7	165.5	SMASS	PY	5		156.5	157.7	30671	0.0025	0.0025	0.0025	38	176	
																		130.9	135.06	FG/MG	strongly foliated	164.7	165.5	SMASS	PO	30		157.7	158.1	30672	0.024	0.112	0.104	1360	8730	
																		135.06	136.15	MG/CG		165.5	167	DISS	MT			158.1	159.3	30673	0.026	0.051	0.255	516.5	2632.5	
																		136.15	136.15	FG	grain size red near contact	165.5	167	BLB	PO	2		159.3	160	30674	0.012	0.075	0.063	2210	7850	
																		136.15	136.6	M		165.5	167	BLB	CP	5		160	160.5	30675	0.036	0.151	0.235	1920	16550	
																		136.15	136.6	M		167	171	DISS	MT	3		160.5	161	30676	0.173	0.244	0.217	3420	44900	
																		136.15	136.6	FG/MG	Bi melapsammitic lens	171	174.6	DISS	PY	2		161	161.5	30677	0.056	0.092	0.052	1710	23000	
																		136.15	136.6	FG/MG		171	172	DISS	PO	2		161.5	162	30678	0.06	0.25	0.208	1370	19000	
																						172.7	175	DISS	CP	1		162	162.6	30679	0.029	0.045	0.092	654	2100	

Start Date: 28/Jan/08

Hole: HN-08-36

Southampton Ventures Inc.

Northing: 6648805

Depth: 186 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303460

Elevation: 255.070m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays																	
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm								
																		177	180.25	FG/IMG	Ms-Crd schists																							
																		180.25	184	MG	Bt-Crd massive to schistose melapellites																							
																		184.3	190.45	PEG																								
																		184.3	190.45	CG	White Pegmatite																							
																		190.45	195	POBL	Qtz, Plag, Ms"																							
																		190.45	192	FG/IMG	Crd, MG"																							
																		192	195	FG/IMG	Bt-Crd-Ms schist																							

Start Date: 28/Jan/08

Hole: HN-08-37

Southampton Ventures Inc.

Nothing: 6646857

Depth: 273 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903380

Elevation: 255.587m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: Iandry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
71.69	81.79	GAB		Gabbro	102	139	-58.7	MAG (NT) 56300	21	38.29	Moderate	Pervasive	CH		21	38.29	55	FR	21	38.29	MG/CG		68.05	71.54	DISS	ILM	1		92	93	24393	0.0025	0.0025	0.0025	223	175	
21	38.29	PXE		metapyroxenite	204	142.6	-58.9	MAG (NT) 56300	76.4	76.5	Strong	Fract-Cont	CH	Shear fault?	65.6	65.64	30	FR	60.38	68.05	M		92.65	92.68	Vein	PY	1	Associated with felsic vein	99	100	24394	0.0025	0.0025	0.0025	81	176	
271.29	272	QV		Quartz Vein										76.4	76.5	45	SHZ	60.38	68.05	MG								100	101	24395	0.0025	0.0025	0.0025	58	112		
270.37	271.29	SSH		Melasec-Schists					79.09	79.19	Strong	Fract-Cont	CH	Shear fault?	79.09	79.19	42	SHZ	68.05	69	M								101	102	24396	0.0025	0.0025	0.0025	73	190	
264.56	270.37	PSAM		Meta-Psammite										89.39	89.69		F	68.05	69	MG		98.85	103.6	BLB	PO	1		102	103	24397	0.0025	0.0025	0.0025	97	216		
257.87	264.56	SSH		Melasec-Schists					69.39	69.69	Strong	Fract-Cont	CH	mica like crystals	92.2	92.67	47	FOL	73.38	81.79	M		103.6	128.4	Vein	PO	0.5		103	104	24398	0.0025	0.0025	0.0025	91	263	
251.62	257.87	PSAM		Meta-Psammite										97.68	98.32		VEIN	73.38	81.79	MG		114.5	114.7	Vein	PY	1		114.5	114.7	24399	0.0025	0.0025	0.0025	64	85		
250.64	251.62	PSAM		Meta-Psammite										107.49	107.54	52	VEIN	81.79	97.68	MG		103.6	128.4	Vein	CP	1		24400	0.101	0.136	0.057	24400	8920				
250.22	250.64	MS		Massive Sulphide										123	123.32	50	FOL	97.68	98.32	VFG		161.8	163	DISS	CP	0.5		123	123.5	24401	0.0025	0.0025	0.0025	284	152		
249	250.22	SLT		Siltstone										123	123.32	50	VEIN	98.32	98.85	MG		165.8	177.2	DISS	PY	0.5		162	163	24402	0.0025	0.015	0.047	34	834		
248.81	249	MS		Massive Sulphide					103.61	128.48	Moderate	Pervasive	SI	wall	133.5	133.55	26	VEIN	98.85	103.61	FG		165.8	177.2	DISS	PO	1		165.5	167	24403	0.0025	0.0025	0.0025	36	120	
247.57	248.81	SLT		Siltstone					107.49	107.54	Strong	Pervasive	SI	Waxy look	163	165.8	50	LAY	103.61	161.85	MG		165.8	177.2	DISS	CP	1		167	168	24404	0.0025	0.0025	0.0025	17	437	
247.38	247.57	MS		Massive Sulphide										165.8	177.21	52	FOL	151	155	FG/IMG		177.2	177.6	FRA	CP	1		168	169	24405	0.0025	0.0025	0.0025	13	60		
241	247.38	PSAM		Meta-Psammite										177.21	187.84	30	FR	161.85	163	FG/IMG		177.2	177.6	FRA	PY	2		169	170	24406	0.0025	0.0025	0.0025	13	31		
238.56	241	SLT		Siltstone										190	200	48	VEIN	163	165.8	FG		170	171	24407	ILM	0.5		170	171	24407	0.0025	0.0025	0.0025	25	153		
227	238.56	GAB		Gabbro										191.8	194	3	FR	165.8	177.21	FG		171	172	24408	DISS	PY	0.5		171	172	24408	0.0025	0.0025	0.0025	40	356	
213.34	227	PSAM		Meta-Psammite										213.34	227	40	FOL	177.21	190	M		204	213.3	DISS	ILM	1		172	173	24409	0.0025	0.0025	0.0025	29	211		
177.21	213.34	GAB		Gabbro										227	238.56	37	VEIN	177.21	213.34	MG/CG		210.5	213.3	DISS	CP	1		24410	0.0025	0.0025	0.0025	0.5	3				
165.8	177.21	PSAM		Meta-Psammite					107.49	107.54	Strong	Fract-Cont	SI	light pink vein	241	246.7	37	FOL	213.34	227	FG/IMG		173	174	24411	DISS	PY	1		173	174	24411	0.0025	0.0025	0.0025	30	338
163	165.8	IVOL		Intermed Volcanic										247.57	248.81	44	VEIN	227	238.56	MG		210.5	213.3	DISS	PO	3		174	175	24412	0.019	0.022	0.035	51	158		
161.85	163	PSAM		Meta-Psammite					162.95	163	Moderate	Fract-Cont	SI	Bleaching at contact.	249	250.22	47	VEIN	238.56	241	VFG	very fine to fine	213.3	227	BLB-DISS	CP	1		175	175	24413	0.0025	0.008	0.022	54	422	
81.79	97.68	MGAB		meagabro, var: meta										250.64	250.8		SHZ	241	247.38	FG		213.3	227	BLB-DISS	PY	1		176	177	24414	0.01	0.009	0.017	125	361		
71.54	71.89	QV		Quartz Vein					163	163.05	Moderate	Pervasive	SI	Bleaching	251.45	251.62	43	VEIN	247.38	247.57	FG		213.3	227	BLB-DISS	PO	4		177	178	24415	0.028	0.043	0.033	188	1140	
98.85	161.85	GAB		Gabbro					165.8	166	Strong	Pervasive	SI	qtz ar. contact	257.87	264.56	45	FOL	248.81	249	FG		227	238.5	BLB-DISS	PY	1	some along foliation	183	165	24416	0.011	0.018	0.009	70	182	
98.32	98.85	MGAB		meagabro, var: meta										177.21	177.66	Strong	Fract-Cont	SI	Bleaching of Gao		227	238.5	BLB-DISS	CP	2	some along foliation	204	205	24417	0.0025	0.0025	0.0025	63	109			
97.68	98.32	MD		Mafic Dyke										264.56	270.37	45	FOL	249	250.22	FG		227	238.5	BLB-DISS	CP	2	some along foliation	205	205	24418	0.01	0.018	0.007	241	350		
68.05	71.54	GAB		Gabbro										250.22	250.64		FG			FG		205	207.5	24419	DISS	PO	4	some along foliation	206	207.5	24419	0.02	0.017	0.0025	77	115	
38.29	68.05	MGAB		meagabro, var: meta					177.21	177.66	Strong	Fract-Cont	CA	Bleaching of Gao	250.64	251.62		FOL	249	250.22	FG/IMG		227	238.5	BLB-DISS	PO	4	some along foliation	207.5	209	24420	0.4875	7.993	0.4965	1630	1600	
0	21	CAS		Casing										251.62	257.87		FG/IMG			FG/IMG		231.5	231.5	SMASS	CP	10		209	210	24422	0.013	0.035	0.008	344	457		
									215.83	221	Strong	Pervasive	CH		264.56	270.37		FG			FG		231.5	231.5	SMASS	PO	40		210	211	24423	0.018	0.053	0.024	690	3240	
														271.29	272		VFG			VFG		238.5	241	DISS	PY	0.5		211	212	24424	0.019	0.0435	0.013	437	623		
																						238.5	241	DISS	CP	1		212	213	24425	0.037	0.162	0.021	2570	2890		
																						238.5	241	DISS	PO	3		213	214	24426	0.031	0.091	0.016	1380	1580		
																						238.5	241	DISS	MT	1	crystalline	214	215	24427	0.032	0.051	0.023	500	2510		
																						241	248.7	DISS	PY			215	216	24428	0.029	0.04	0.011	486	747		

Start Date: 28/Jan/08

Hole: HN-08-38

Southampton Ventures Inc.

Nothing: 5648857

Depth: 320 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303380

Elevation: 255.636m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
322.25	334.24	PEL		Metapelite	102	142.1	-70	MAG (NT) 56300	55.55	56.3	Moderate	Pervasive	SI		46.3	46.72	2	VEIN	20.2	64	M		20.2	64	DISS	MT	1.5		46	47	26847	0.02	0.008	0.0125	308	32
319.55	322.25	MVOL		Mafic Volcanic	204	144.9	-68.7	MAG (NT) 56410	119.2	120.25	Strong	Pervasive	SI		63	63.3	2	VEIN	20.2	64	CG		163.5	166.6	DISS	CP	0.5		55.5	56.5	26848	0.021	0.009	0.007	229	39
279.95	319.55	MSED		Metasediment	305	146.2	-67.3	MAG (NT) 56850	132.8	131.42	Strong	Pervasive	SI		119.68	120.15	45	SHZ	64	113.74	M		166.6	169.9	BLB-DISS	CP	0.5		63	63.5	26849	0.02	0.008	0.008	164	51
262.32	279.95	GAB		Gabbro					137.46	138.59	Strong	Pervasive	SI		124.74	124.96	40	SHZ	64	113.74	CG		166.6	169.9	BLB-DISS	PO	0.5				26850	0.008	0.141	0.053	21000	8930
234.67	262.32	GAB		Gabbro					143.04	143.15	Strong	Fract-Cont	SI		126.4	126.41	67	SHZ	113.74	163.56	M	Mostly massive	169.9	200.4	BLB-DISS	CP	2		77	78	26851	0.0025	0.0025	0.009	281	117
200.46	234.67	GAB		Gabbro					173.43	173.8	Strong	Pervasive	SI		126.48	126.5	63	SHZ	113.74	163.56	MG	MG-CG	169.9	200.4	BLB-DISS	PO	2		106	107	26852	0.0025	0.0025	0.0025	341	26
189.97	200.46	PSAM		Meta-Psammite					173.8	173.8	Moderate	Pervasive	A		127.87	127.9	85	VEIN			MG		119	120.5	26853	0.0025		0.0025	0.0025	194	52					
166.64	189.97	GAB		Gabbro					169.4	169.97	Weak	Pervasive	E	E all?	130.5	130.95	1	VEIN	166.64	169.97	M		200.4	234.6	BLB-DISS	PO	1.5		124.5	125	26854	0.0025	0.0025	0.0025	133	65
163.56	166.64	MSED		Metasediment					200.46	203.75	Strong	Pervasive	SI		133.81	133.85	64	VEIN	166.64	169.97	CG		234.6	237.1	BLB-DISS	CP	2		130.5	131.5	26855	0.02	0.01	0.0025	153	33
113.74	163.56	GAB		Gabbro					201.51	203	Moderate	Pervasive	BT		155	156.18	72	VEIN	169.97	200.46	MG		234.6	237.1	BLB-DISS	PO	3		137.1	138.6	26856	0.0025	0.0025	0.0025	125	159
64	113.74	MGAB		Melagabbro					225	234.67	Moderate	Pervasive	SI		156.18	156.9	5	FR	200.46	225	M		156	157	26857	0.0025		0.0025	0.015	57	71					
20.2	64	PXE		Metaproxenite					234.67	262.32	Strong	Pervasive	SI		158.4	158.42	25	FR	200.46	225	CG		237.1	237.5	BLB-DISS	CP	8		172	173	26858	0.017	0.11	0.0025	114	14
0	20.2	CAS		Casing					234.67	262.32	Moderate	Pervasive	A		164.73	164.74	80	SCHS	202.92	203.33	BC		237.1	237.5	SMASS	PO	15		173	174	26859	0.0025	0.0025	0.0025	42	3
									234.67	262.32	Moderate	Pervasive	CH		173.37	173.43	45	FR	234.67	262.32	MG	foliated	237.5	259	BLB-DISS	CP	2				26860	0.0025	0.0025	0.0025	4	3
									234.67	262.32	Moderate	Pervasive	BT		190.8	180.6	18	FR	262.32	276	M		237.5	259	BLB-DISS	PO	3		174	175	26861	0.0025	0.0025	0.0025	37	4
									243.1	243.4	Strong	Fract-Cont	BT		196.4	196.44	53	VEIN	262.32	276	CG		259	259.3	SMASS	PY	8		175	176	26862	0.0025	0.0025	0.0025	40	49
									256.25	257.2	Strong	Patchy	BT		211.5	211.54	60	SHZ	279.95	319.55	MG		259	259.3	SMASS	CP	7		169	190	26863	0.0025	0.0025	0.0025	94	93
									260	260.45	Strong	Patchy	BT		216.42	216.52	48	FR	319.55	322.25	FG	FG-MG	259	259.3	SMASS	PO	15		190	191	26864	0.0025	0.0025	0.0025	25	173
									262.32	276	Weak	Patchy	CH		232.21	232.35	2	VEIN	322.25	334.24	MG		191	192	26865	0.0025		0.0025	0.009	40	487					
									262.32	276	Weak	Patchy	A		234.67	262.32	50	FOL					259.3	262.3	BLB-DISS	PO	3		192	193	26866	0.0025	0.0025	0.0025	20	72
									276	279.95	Moderate	Pervasive	A		253.1	253.5	17	FR					262.3	276	BLB-DISS	PY	1		193	194	26867	0.0025	0.0025	0.0025	61	1020
									276	279.95	Strong	Pervasive	CH		307.01	307.06	85	VEIN					262.3	276	BLB-DISS	CP	2		194	195	26868	0.003	0.015	0.0025	29	306
									301.15	301.39	Strong	Patchy	BT										195	195	26869	0.0025		0.0025	0.0025	30	902					
									303.98	304.08	Strong	Patchy	BT										276	279.9	BLB-DISS	CP	4				26870	0.379	3.752	0.2295	1260	1330
									315.65	316	Strong	Patchy	BT										196	197	26871	0.0025		0.0025	0.0025	32	572					
									315.9	316	Strong	Patchy	BT										276	279.9	BLB-DISS	PO	8	and as stringers	197	198	26872	0.0025	0.0025	0.0025	39	589
									319.55	322.25	Moderate	Fract-Cont	CH										198	199	26873	0.0025		0.0025	0.0025	50	321					
																							199	200	26874	0.0025		0.0025	0.018	70	960					
																							279.9	301.3	BLB-DISS	CP	3		200	201	26875	0.0025	0.0025	0.034	94	1720
																							281.1	261.4	DISS	MT	5		201	202	26876	0.0025	0.0025	0.015	87	631
																							202	203	26877	0.0025		0.0025	0.008	101	422					
																							315.7	316	BLB-DISS	CP	10		203	204	26878	0.0025	0.0025	0.0025	60	411
																							232	233	26879	0.0025		0.0025	0.0025	164	263					
																							232	233	26880	0.0025		0.0025	0.0025	10	13					
																							233	234	26881	0.011		0.021	0.017	325	826					
																							234	235	26882	0.01		0.016	0.007	299	325					

Start Date: 28/Jan/08

Hole: HN-08-39

Southampton Ventures Inc.

Nothing: 5646905

Depth: 305 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903307

Elevation: 255.124 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
305.7	306	GAB		Gabbro	102	137.7	-58.4	MAG (nT) 56340	28.34	32.26	Moderate	Pervasive	SI		26.68	26.72	20	VEIN	22	28.34	MG/CG		32.26	36.17	DISS	PY	0.5		32	33	24302	0.0025	0.009	0.0025	76	88
303.63	305.7	UNK		Unknown	204	139	-57.2	MAG (nT) 56300	28.34	32.26	Moderate	Pervasive	CH	rock is soft	28.34	32.26	50	FR	28.34	32.26	BC		32.26	36.17	DISS	ILM	2		33	34	24303	0.0025	0.015	0.0025	67	86
297.35	303.63	GAB		Gabbro	297.35	142.8	-57.4	MAG (nT) 56550	28.34	32.26	Weak	Fract-Cont	G		32.5	32.53	40	VEIN	32.26	38.17	MG/CG		36.41	45.61	DISS	CP	0.5		34	35	24304	0.0025	0.006	0.0025	70	15
293.5	297.35	MGAB		me gabbro, var. meta	293.5				34.81	35.15	Moderate	Pervasive	SI		70.95	71.5	55	FOL	38.17	36.41	VFG		36.41	45.61	DISS	ILM	1		35	36	24305	0.0025	0.048	0.0025	117	74
282.45	293.5	GAB		Gabbro	282.45				74	74.19	Strong	Fract-Cont	K	'white	71.5	74	90	FOL	38.41	45.61	M		46.04	70.96	DISS	PY	0.5		36	37	24306	0.0025	0.009	0.0025	43	83
274.07	282.45	MGAB		me gabbro, var. meta	274.07								almost chalky	87.25	87.54	0	VEIN	38.41	45.61	MG/CG		46.04	70.96	DISS	ILM	1	crystalline	37	38	24307	0.0025	0.024	0.0025	44	108	
273.68	274.07	GAB		Gabbro	273.68									88.54	89		VEIN	45.61	46.04	VFG	dark green	55.5	55.93	DISS	ILM	4		55	56	24308	0.0025	0.006	0.0025	61	112	
271.47	273.68	MGAB		me gabbro, var. meta	271.47								some Bl associated	105.74	110.95	40	VEIN	46.04	66.1	MG/CG		112.8	153.5	DISS	PY	0.5		56	57	24309	0.0025	0.0025	0.0025	61	125	
260.36	271.47	GAB		Gabbro	260.36									110.15	110.23	1	VEIN	55.5	55.93	CG		112.8	153.5	DISS	MT	0.5				24310	0.0025	0.0025	0.0025	3	4	
251.28	260.36	PSAM		Meta-Psammite	251.28				75.23	76	Strong	Pervasive	K	"small	112.8	153.5	45	FR	70.96	79.4	BC	variable along interval, more	122.5	123.1	DISS	MT	1		57	58	24311	0.0025	0.0025	0.0025	41	93
244.14	251.28	GAB		Gabbro	244.14									161.52	167.89	50	FR	176.5	187.5	CG	at beginning of interval	176.5	187.5	DISS	MT	0.5		58	59	24312	0.0025	0.0025	0.0025	36	136	
237	244.14	MGAB		me gabbro, var. meta	237								feldspar replacing	168.2	168.4	6	VEIN	70.96	79.4	MG		176.5	187.5	FRA	PO	2	observed	59	60	24313	0.0025	0.011	0.0025	42	71	
231	237	GAB		Gabbro	231								rock,	172.4	172.6	20	F	70.96	79.4	MG		187.5	187.5	CG			60	61	24314	0.021	0.017	0.0025	79	184		
227.24	231	FD		Felsic Dyke	227.24								bleached	176.56	187.5	10	SHZ	79.4	81.38	M		187.5	187.5	FRA	PY	4	veins and fractures	66	67	24315	0.014	0.019	0.0025	52	75	
225.82	227.24	MGAB		me gabbro, var. meta	225.82								texture'	180.37	181.31	60	FOL	79.4	81.38	CG		187.5	187.5	FRA	PY	4	along	68	69	24317	0.0025	0.007	0.0025	57	108	
223.24	225.82	FD		Felsic Dyke	223.24				81.3	81.38	Moderate	Pervasive	SR	bleaching	180.37	181.31	60	VEIN	81.38	82.32	MG		206.6	215.83	DISS	PY	1	contact	70	71.5	24318	0.0025	0.011	0.0025	38	75
215.83	223.24	QGAB		Qtz bearing gao	215.83									206.66	206.66	60	FOL	82.32	83.9	MG/CG		206.6	215.83	DISS	PY	1		120	121	24319	0.0025	0.0025	0.0025	440	103	
206.66	215.83	MGAB		me gabbro, var. meta	206.66				219	223.24	Moderate	Fract-Cont	SI	bleaching	205.45	205.55	43	VEIN	83.9	84.17	VFG	on contact with PXE	223.2	225.83	BLB-DISS	PY	1				24320	0.5045	7.97	0.4975	1540	1480
194	206.66	QGAB		Qtz bearing gao	194				248.63	249.4	Moderate	Patchy	BT	Bt	206.66	215.83	50	VEIN			VFG		223.2	225.83	BLB-DISS	PO	0.5		121	122	24321	0.0025	0.0025	0.0025	466	60
187.5	194	GAB		Gabbro	187.5								replacement of Pyx	206.66	215.83	55	FOL	84.17	84.44	VFG		223.2	225.83	BLB-DISS	CP	0.5		122	123	24322	0.0025	0.0025	0.0025	433	44	
176.56	187.5	MD		Mafic Dyke	176.56									215.83	223.24	60	FOL	84.44	89	FG/MG		227.2	231	PO			123	124	24323	0.0025	0.0025	0.0025	422	30		
167.89	176.56	PXE		metapyroxenite	167.89									223.43	223.48	90	VEIN	87.25	87.54	BC		227.2	231	PY	1		124	125	24324	0.0025	0.0025	0.0025	466	48		
161.52	167.89	MGAB		me gabbro, var. meta	161.52				249	249.31	Strong	Pervasive	K	Bleaching	227.24	231	60	FOL	89	91.35	M		227.2	231	BLB-DISS	CP	0.5		125	126	24325	0.0025	0.0025	0.0025	473	53
112.8	161.52	PXE		metapyroxenite	112.8									227.24	231	20	VEIN	89	91.35	VFG		231	237	DISS	PY	0.5		177	178	24326	0.0025	0.0025	0.0025	66	128	
106.74	112.8	MGAB		me gabbro, var. meta	106.74				267.91	268.2	Strong	Fract-Cont	SE	more Qtz	231	237	20	VEIN	89	91.35	VFG		231	237	DISS	PY	0.5		177	178	24327	0.0025	0.0025	0.0025	66	128
96.17	106.74	PXE		metapyroxenite	96.17									239.3	239.4	57	FR	91.35	96.17	M		237	240.2	DISS	PY	0.5		178	179	24327	0.0025	0.0025	0.0025	65	111	
91.35	96.17	MGAB		me gabbro, var. meta	91.35									245	245.05	13	VEIN	91.35	96.17	MG		251.2	260.36	BLB	PY	1.5	up to 4%	179	180	24328	0.0025	0.0025	0.017	57	185	
84.44	91.35	DD		Diabase Dyke	84.44									251.28	260.36	40	VEIN	96.17	105.74	MG/CG		251.2	260.36	BLB	CP	0.5	min.	180	181	24329	0.0025	0.0025	0.0025	96	213	
84.17	84.44	QV		Quartz Vein	84.17				284.39	284.6	Strong	Fract-Cont	A	fracture	251.28	260.36	80	VEIN	105.74	110.96	MG		251.2	260.36	BLB	CP	0.5	up to 4%			24330	0.0025	0.0025	0.0025	3	7
83.9	84.17	DD		Diabase Dyke	83.9									260.36	271.47	45	VEIN	112.8	161.52	MG/CG		251.2	260.36	BLB	CP	0.5	min.	181	182	24331	0.0025	0.0025	0.0025	82	247	
82.32	83.9	PXE		metapyroxenite	82.32									271.47	273.68	35	FR	161.52	167.89	MG/CG		251.2	260.36	BLB	PO	2	up to 4%	182	183	24332	0.0025	0.0025	0.0025	80	400	
81.38	82.32	GAB		Gabbro	81.38									274.07	282.45	45	VEIN	167.89	176.56	MG/CG		260.3	271.4	BLB-DISS	PY	0.5	min.	183	184	24333	0.0025	0.0025	0.0025	72	167	
79.4	81.38	PXE		metapyroxenite	79.4									284.35	284.42	64	FOL	176.56	177.5	VFG		260.3	271.4	BLB-DISS	PY	0.5		184	185	24334	0.0025	0.0025	0.0025	72	131	
70.96	79.4	GAB		Gabbro	70.96				285.07	285.54	Moderate	Pervasive	E	rock	292	292.25	50	SHZ	177.5	186	FG/MG		260.3	271.4	BLB	CP	1		185	186	24335	0.0025	0.0025	0.0025	108	372
46.04	70.96	GAB		Gabbro	46.04				295.6	296.7	Weak	Fract-Cont	E	light green	294.38	294.71	5	VEIN	186	186.5	VFG		266.5	266.8	FRA	PY	2		186	187	24336	0.027	0.011	0.0025	85	300
45.61	46.04	MD		Mafic Dyke	45.61									303																						

Start Date: 28/Jan/08 Hole: HN-08-39 **Southampton Ventures Inc.** Northing: 6648906 Depth: 306 m
 Completion Date: 30/Jan/08 Project: SV-HDN *Diamond Core Log Sheet* Easting: 303307 Elevation: 255.124 m
 Azimuth: 124 Property: Horden Lake Projection: UTM NAD83 Zone 18N Hole Diameter: NQ
 Dip: -60 Logged By: landry Supervisor: []
 Survey Method: Flexit Date: 25/04/2008 Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	PT_ppm	Pd_ppm	Au_ppm	Ni_ppm
38.41	45.61	GAB		Gabbro				286.6	286.7	Strong	Fract:Cont	SI	"qtz vein, 30 deg."	303.2	303.63	54	FOL	187.5	194	MG/CG		274.0	282.4	BLB-DISS	PO	1		195	196	24338	0.0025	0.0025	0.0025	101	482
38.17	38.41	MD		Mafic Dyke														194	206.66	MG/CG		274.0	282.4	BLB-DISS	PY	2		203	204	24339	0.0025	0.009	0.0025	66	197
32.28	38.17	GAB		Gabbro														206.66	215.83	FG		274.0	282.4	BLB-DISS	ILM	0.5	+	24340	0.51	7.8886	0.466	1540	1560		
28.94	32.26	GAB		Gabbro														215.83	223.24	M							221	222	24341	0.0025	0.051	0.0025	18	164	
22	28.34	GAB		Gabbro														215.83	223.24	MG							228	229	24342	0.0025	0.0025	0.0025	25	233	
0	22	CAS		Casing														228.24	225.82	FG/MG							229	230	24343	0.0025	0.0025	0.008	30	521	
																		225.82	227.24	FG							230	231	24344	0.0025	0.031	0.0025	214	1150	
																		227.24	231	FG/MG							222	223	24345	0.0025	0.0025	0.0025	20	84	
																		231	237	MG/CG		274.0	282.4	BLB-DISS	CP	2		223	224	24346	0.0025	0.0025	0.0025	26	112
																		237	240.2	MG		282.4	293.5	BLB-DISS	PY	3		224	225	24347	0.0025	0.0025	0.0025	13	47
																		244.14	250.2	M		282.4	293.5	BLB-DISS	CP	2		225	226	24348	0.0025	0.0025	0.0025	58	103
																		244.14	251.28	MG/CG		282.4	293.5	BLB-DISS	PO	6		252	254	24349	0.0025	0.0025	0.0025	35	317
																		250.2	250.43	BC		282.4	289	BLB-DISS	CP	1	fracture	24350	0.098	0.143	0.052	21450	7410		
																		251.28	260.36	FG							254	255	24351	0.0025	0.015	0.0025	103	528	
																		260.36	271.47	MG							256	256	24352	0.0025	0.0025	0.0025	29	936	
																		260.36	265	MG/CG							258	260	24353	0.0025	0.0025	0.0025	74	1100	
																		271.47	273.68	M							260	260.5	24354	0.008	0.028	0.014	391	1320	
																		271.47	273.68	MG		282.4	289	BLB-DISS	PY	1	fracture	262.7	263.2	24355	0.011	0.0085	0.0025	76	413
																		273.68	274.07	M							265.5	267	24356	0.0025	0.0025	0.0025	63	179	
																		273.68	274.07	MG/CG							270.5	272	24357	0.02	0.008	0.0025	75	191	
																		274.07	282.45	M							276	277	24358	0.008	0.014	0.065	142	1300	
																		274.07	282.45	MG							277	278	24359	0.019	0.018	0.011	125	365	
																		282.45	281.5	M		282.4	289	BLB-DISS	PO	3	fracture	24360	0.0025	0.0025	0.0025	2	11		
																		282.45	293.5	MG/CG							278	279	24361	0.017	0.012	0.0025	193	243	
																		293.5	297.35	M							279	280	24362	0.017	0.019	0.008	148	410	
																		293.5	297.35	MG/CG							280	281	24363	0.013	0.014	0.0025	108	100	
																		297.35	303.63	M							281	282	24364	0.035	0.092	0.0025	807	2220	
																		297.35	303.63	MG/CG		293.5	297.3	BLB-DISS	PY	3	alteration	282	283	24365	0.027	0.037	0.0025	480	669
																		306.7	306	FG/MG		293.5	297.3	BLB-DISS	CP	1		283	284	24366	0.052	0.1	0.0025	1620	1560
																						293.5	297.3	BLB-DISS	PO	5		284	285	24367	0.023	0.077	0.0025	1280	851
																						297.3	303.6				285	286	24368	0.021	0.028	0.0025	248	771	
																						297.3	303.6				286	287	24369	0.018	0.035	0.0025	432	454	
																						297.3	303.6					24370	0.5035	7.905	0.508	1600	1620		
																											287	288	24371	0.03	0.043	0.0025	410	1240	
																											288	289	24372	0.0106	0.019	0.047	505	2020	
																											289	289.5	24373	0.041	0.123	0.047	2510	4800	

Start Date: 28/Jan/08	Hole: HN-08-40	Southampton Ventures Inc.	Nothing: 6646907	Depth: 359 m
Completion Date: 30/Jan/08	Project: SV-HDN	<i>Diamond Core Log Sheet</i>	Easting: 303306	Elevation: 255.166 m
Azimuth: 124	Property: Horden Lake		Projection: UTM NAD83 Zone 18N	Hole Diameter: NQ
Dip: -70	Logged By: landry		Supervisor: []	
Survey Method: Flexit	Date: 25/04/2008	Storage Location: Horden Lake		

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
										284.08	285.82	Moderate	Pervasive	SI																									
										284.08	285.82	Moderate	Fract-Cont	CH	to strong																								
										284.08	285.82	Moderate	Fract-Cont	BT																									
										285.82	286.15	Weak	Patchy	CH																									
										285.82	286.15	Weak	Patchy	BT																									
										286.15	295.25	Weak	Fract-Cont	E																									
										286.15	286.25	Strong	Pervasive	BT																									
										286.25	285.5	Strong	Pervasive	CH																									
										286.25	287.4	Moderate	Pervasive	BT																									
										285.5	287.4	Moderate	Pervasive	CH																									
										295.25	297	Weak	Fract-Cont	CH																									
										297	304.2	Moderate	Fract-Cont	E																									
										297	304.2	Moderate	Fract-Cont	CH																									
										297.35	304.2	Moderate	Patchy	SI																									
										297.35	297.37	Strong	Fract-Cont	E																									
										302.2	302.25	Moderate	Fract-Cont	CA																									
										304.2	308.78	Weak	Pervasive	CH	Weak to moderate																								
										308.78	314.32	Moderate	Patchy	BT																									
										308.78	314.32	Moderate	Fract-Cont	CA																									
										308.78	314.32	Moderate	Fract-Cont	CH																									
										330.37	337.45	Weak	Patchy	BT	to moderate																								
										330.37	339.45	Moderate	Pervasive	CH	to strong																								
										330.37	332	Strong	Pervasive	SI																									
										332	337.2	Moderate	Patchy	A	Homblend e																								
										332	337.2	Moderate	Pervasive	SI																									
										339.45	342.57	Moderate	Fract-Cont	CH																									
										341.7	342.57	Moderate	Patchy	BT																									
										342.57	342.84	Moderate	Pervasive	CH																									
										342.84	342.94	Moderate	Fract-Cont	CH																									
										342.84	342.84	Weak	Fract-Cont	CA																									
										342.94	343.24	Strong	Fract-Cont	CH																									
										343.24	344.7	Weak	Fract-Cont	CA																									
										343.24	344.7	Moderate	Fract-Cont	CH																									

Start Date: 28/Jan/08

Hole: HN-08-41

Southampton Ventures Inc.

Northing: 6646779

Depth: 123 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303600

Elevation: 254.802m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -45.1

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
	106				123.8	-43.5		101	108.31	Moderate	Fract:Cont	CA	irrefills					66.03	66.13	CG	CG verging on	77.72	80.17	DISS	PO	0.05	none	86	86.75	27037	0.024	0.03	0.079	147	805		
	111				123.8	-43.4							fractures														visible	86.75	87.75	27038	0.062	0.616	2.035	1340	19100		
	117				123.8	-43.3		108.31	114	Moderate	Pervasive	CH						70.86	70.86	MG/CG	grained,	77.72	80.17	BLB-DISS	CP	5	although	87.75	88.6	27039	0.035	0.08	0.278	233	1329		
								108.31	124.73	Strong	Patchy	SI						70.86	77.15	CG	feldspar rich	80.17	86.75	DISS	PO	1	some	92.8	93.45	27046	0.0175	0.0155	0.0085	35	284		
								114	124.73	Strong	Patchy	CH	strongest					77.15	77.72	M	in comparison	80.17	86.75	BLB-DISS	PY	10	areas	88.6	89.2	27041	0.051	0.159	0.359	355	1600		
													121.95-121.95					77.72	80.17	MG/CG	to previous CG	80.17	86.75	BLB-DISS	CP	5	slightly	89.2	90	27042	0.076	0.241	0.435	1400	3510		
													95					86.75	86.75	MG	gabro"	86.75	87.65	DISS	PY	0.5	magnetic	90	91	27043	0.016	0.015	0.058	66	505		
								122.6	122.85	Strong	Pervasive	SI						86.75	86.75	MG/CG	pyroxenes	86.75	87.65	BLB-DISS	PY	5		91	92	27044	0.0025	0.055	0.053	42	106		
																		86.75	86.75	MG	coarse	86.75	87.65	BLB-DISS	CP	5		92	92.8	27045	0.016	0.011	0.023	32	28		
																		86.75	86.75	MG/CG	v. coarse	86.75	87.65	DISS	PO	1		92.8	93.45	27046	0.0175	0.0155	0.0085	35	284		
																		86.75	86.75	MG/CG	pyroxenes	86.75	87.65	BLB-DISS	PY	10	blebs	93.45	94.7	27047	0.251	0.32	0.183	6290	12600		
																		86.75	86.75	MG/CG	massive	86.75	87.65	BLB-DISS	CP	5	infrequent	94.7	95.5	27048	0.064	0.243	0.148	2590	5320		
																		86.75	86.75	MG/CG	mineralization	86.75	87.65	BLB-DISS	CP	5	mainly	95.5	96	27049	0.031	0.067	0.035	649	4320		
																		86.75	86.75	MG/CG	prevents	86.75	87.65	BLB-DISS	CP	2	disseminate	96	97	27050	0.094	0.143	0.048	22900	8400		
																		86.75	86.75	MG/CG	origina texture	86.75	87.65	BLB-DISS	CP	2	d with a	96	97	27051	0.012	0.015	0.013	150	1250		
																		86.75	86.75	MG/CG	from being	86.75	87.65	BLB-DISS	CP	2	few	97	98	27052	0.0025	0.0025	0.0025	33	384		
																		86.75	86.75	MG/CG	visible	86.75	87.65	BLB-DISS	CP	2	significant	98	99	27053	0.0025	0.0025	0.0025	13	15		
																		86.75	86.75	MG/CG	blebs	86.75	87.65	BLB-DISS	CP	2	blebs	99	100	27054	0.0025	0.0025	0.0025	8	10		
																		86.75	86.75	MG/CG	some	86.75	87.65	DISS	PY	0.5		100	101	27055	0.0025	0.0025	0.0025	10	36		
																		86.75	86.75	MG/CG	pyroxenes	86.75	87.65	BLB-DISS	CP	2	1-50% of	101	102	27056	0.0025	0.0025	0.0025	12	199		
																		86.75	86.75	MG/CG	slightly larger	86.75	87.65	BLB-DISS	CP	2	blebs CP,	102	103	27057	0.0025	0.0025	0.0025	10	14		
																		86.75	86.75	MG/CG	DISS	86.75	87.65	BLB-DISS	CP	2	has a 'swiss	103	104	27058	0.023	0.02	0.017	99	127		
																		86.75	86.75	MG/CG	cheese' look to	86.75	87.65	BLB-DISS	CP	2	grains	104	105	27059	0.015	0.006	0.0025	73	106		
																		86.75	86.75	MG/CG	concentrated	86.75	87.65	BLB-DISS	CP	2	along	105	105	27060	0.0025	0.0025	0.0025	3	7		
																		86.75	86.75	MG/CG	it where	86.75	87.65	BLB-DISS	CP	2	foliation"	105	106	27061	0.0025	0.0025	0.0025	9	14		
																		86.75	86.75	MG/CG	semi-massive	86.75	87.65	BLB-DISS	CP	2	blebs vary	106	107	27062	0.0025	0.0025	0.0025	9	13		
																		86.75	86.75	MG/CG	mineralization	86.75	87.65	BLB-DISS	CP	2	from	107	108	27063	0.0025	0.0025	0.0025	14	11		
																		86.75	86.75	MG/CG	coars, patchy	86.75	87.65	BLB-DISS	CP	2	quartz visible	109	110	27064	0.0025	0.0025	0.01	25	1520		
																		86.75	86.75	MG/CG	(not sure if	86.75	87.65	BLB-DISS	CP	2	2-70% Po	64	65	27065	0.007	0.007	0.011	74	212		
																		86.75	86.75	MG/CG	primary or	86.75	87.65	BLB-DISS	CP	2	within bleb	63	64	27066	0.01	0.014	0.015	64	221		
																		86.75	86.75	MG/CG	secondary???)	86.75	87.65	BLB-DISS	CP	2		62	63	27067	0.008	0.017	0.018	96	263		
																		95.5	97	FG		95.5	97	FG													
																		97	98	BLO		97	98	BLO													
																		98	108	MG/CG		98	108	MG/CG													

Start Date: 28/Jan/08

Hole: HN-08-42

Southampton Ventures Inc.

Northing: 6646760

Depth: 144 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303499

Elevation: 254.876m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.2

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
0					0	124	-69.2		20.3	21.65	Moderate	Pervasive	CH					20.3	21.65	MG/CG	CG (1cm) Px altered to Chl	20.3	21.65	DISS	CP			21	21.65	30036	0.049	0.129	0.011	393	416					
									21.65	22.8	Moderate	Pervasive	CH	altered Px					22.8	27.9	M		22.8	27.9	DISS	CP			24	25	30037	0.02	0.023	0.01	44	212				
									22.8	27.9	Moderate	Pervasive	CH					20.3	21.65	M																				
									23.5	25	Weak	Patchy	SI					21.65	22.8	M																				
									27.9	29.2	Moderate	Pervasive	CH					21.65	22.8	MG/CG	with CG large Px grains																			
																		22.8	27.9	MG/CG																				
																		27.9	29.2	MG/CG	CG (1-2cm) altered Px																			
									29.2	32.7	Moderate	Pervasive	CH		29.2	29.45	45	SHZ	29.2	32.7	M																			
																		29.2	32.7	MG/CG	with CG (1-2cm) altered Px																			
									32.1	32.7	Weak	Fract-Cont	SI	// to foliat on	31.7	32.7	50	FOL																						
									32.7	34.4	Moderate	Pervasive	CH					32.7	34.4	M																				
									34.4	37	Weak	Pervasive	CH					32.7	34.4	MG																				
									37	42.6	Moderate	Pervasive	CH					34.4	37	MG																				
									37	42.6	Strong	Patchy	SI					34.4	37	M																				
									42.6	47.5	Weak	Patchy	SR		42.6	45	60	FOL	42.6	45	FG/MG		44	45	DISS	CP	1		43	44	30038	0.009	0.005	0.019	47	1880				
									49.6	49.75	Weak	Fract-Cont	SI					45	50.1	M		49.6	49.75	Vein	CP	2	with Qtz vein	53.4	54.4	30039	0.012	0.02	0.031	75	1500					
																		45	50.1	FG/MG		53.3	54.5	DISS	PY															
																		50.1	50.45	POBL	Crd locally																			
																		50.1	50.45	CG	completely recrystallized (large Crd), mini-shear zone(?)	53.3	54.5	DISS	PO															
																		50.45	54.5	POBL	local Crd																			
																		50.45	54.5	M																				
																		50.45	54.5	FG/MG																				
									54.5	56.3	Weak	Patchy	CH		54.5	56.3	50	FOL	54.5	56.3	FG/MG		55	55.4	DISS	PO														

Start Date: 28/Jan/08

Hole: HN-08-42

Southampton Ventures Inc.

Nothing: 6646760

Depth: 144 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303499

Elevation: 254.876m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.2

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
								58.4	58.8	Moderate	Pervasive	SI						54.5	66.3	POBL	Ord and Grt	56	56.4	DISS	CP	1														
																						56.3	56.8	DISS	CP															
																						56.3	57.35	DISS	PO															
																						56.3	56.8	DISS	PY															
																						57.5	58.8	DISS	MT	1														
								58.8	59.8	Moderate	Patchy	CH		58.8	59.8	50	FOL	58.8	59.8	FG		58.8	59.8	DISS	PO	2														
																						58.8	59.8	DISS	CP	1														
																						58.8	59.8	DISS	CP	1														
																						58.8	59.8	DISS	PY	1														
																						59.35	59.45	FRA	CP	0.5														
																						59.35	59.45	FRA	PY	3														
								59.8	61	Strong	Pervasive	SI		59.8	61	55	GNE	59.8	61	FG/MG		59.8	61	FRA	CP	1														
								61	63.9	Strong	Pervasive	SI						61	63.9	FG																				
								61	63.9	Moderate	Pervasive	CH																												
								62	62.5	Weak	Patchy	BT																												
								63.9	84.8	Weak	Fract-Cont	SI	very weak: local thin veins.						63.9	84.8	M																			
																						63.9	71.7	MG/CG																
																						63.9	86.8	CG																
																						71.7	73	MG																
																						73	75.9	FG/MG																
																						75.9	79.75	MG																
								76	76.6	Moderate	Fract-Cont	E		76	76.3	50	VEIN																							
								76	76.3	Moderate	Fract-Cont	CA																												
								76.3	76.6	Weak	Fract-Cont	CH																												
														76.6	76.9	20	FR																							
								80.3	83.15	Strong	Pervasive	SI										79.75	83	FG/MG																
								83.15	84.8	Moderate	Pervasive	CH										83	84.8	CG																
								84.8	86.6	Weak	Pervasive	CH										84.8	86.6	M																

Start Date: 28/Jan/08

Hole: HN-08-42

Southampton Ventures Inc.

Nothing: 6646780

Depth: 144 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303498

Elevation: 254.876m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.2

Logged By: Iandry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
								98.35	101.65	Weak	Pervasive	SI						98.35	101.65	M		98.35	98.35	DISS	PO	3													
								98.35	101.65	Weak	Pervasive	CH						98.35	101.65	FG/MG		98.35	98.35	CON	CP	10													
								101.65	104.8	Weak	Pervasive	SI		101.65	104.8	55	FOL	101.65	104.8	FG/MG		101.65	101.65	CON	PO	10													
								101.65	104.8	Weak	Patchy	CH	local zones richer in Chi																										
								104.8	108.4	Weak	Pervasive	SI		104.8	108.4	55	FOL	104.8	108.4	FG/MG	FG	104.8	104.8	DISS	CP	1		aligned with foliation											
								104.8	108.4	Weak	Patchy	CH	local zones richer in Chi																										
								105.2	108	Weak	Patchy	E	local beds																										
								110.4	111.2	Moderate	Fract-Cont	SI	Qtz veins																										
								134.5	144	Weak	Patchy	CH																											
104.8	144	PEL		Metapelite																																			

Start Date: 28/Jan/08

Hole: HN-08-42

Southampton Ventures Inc.

Nothing: 6646760

Depth: 144 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303499

Elevation: 254.876m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.2

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
														143	144	50	FOL	134.5	140.6	FG/IMG	Crd-Bt-Ms schist, local Chl, ccsl MG Crd-pobl'																			
																		140.6	141.5	POBL	Garnet																			
																		140.6	141.5	MG/CG	Gr-Bt-Chl schist																			
																		141.5	144	FG/IMG	Crd-Bt-Chl schist																			

Start Date: 28/Jan/06

Hole: HN-08-43

Southampton Ventures Inc.

Nothing: 6646762

Depth: 189 m

Completion Date: 30/Jan/06

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803430

Elevation: 254.832 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70.3

Logged By: Ian Dry

Supervisor: [Redacted]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
186.96	190	MSED		Metasediment	0	124	-70.3		46	47.5	Moderate	Patchy	SI		17.6	68	55	FOL	17.6	68	M		17.6	68	DISS	CP	0.1	Small		26340	0.5156	0.014	0.4935	1560	1500	
187.25	186.96	PEL		Metapelite	3	123.4	-69.8		51	54	Strong	Fract-Cont	CH	Amph>Ch	26.56	26.64	25	VEIN	17.6	68	CG	CG-MG						47	48	26341	0.018	0.074	0.014	53	124	
184.64	187.25	PEG		Pegmatite	6	122.2	-69.2		51	54	Strong	Fract-Cont	A	Amph>Ch	31.37	31.47	62	FR	68.54	69.95	MG							54	55	26342	0.0025	0.0025	0.0025	127	81	
175.34	184.64	PEL		Metapelite	9	121.2	-69.3		54	54.75	Moderate	Pervasive	SI		54	55	12	FR	69.95	72.05	CG							58	69	26343	0.0025	0.0025	0.0025	65	176	
169.29	175.34	QTZE		Quartzite	12	120.5	-69.1		68.35	68.54	Strong	Pervasive	SI	Si alt?	61.95	62.3	12	VEIN	72.05	74.55	MG		68.54	69.95	BLB-DISS	CP	0.25		78	79	26344	0.0025	0.0025	0.0025	103	482
168.54	169.29	MVOL		Mafic Volcanic	15	120.3	-68.7		78.5	78.99	Strong	Patchy	CH		65	66	37	FOL	74.55	75.9	MG		68.54	69.95	BLB-DISS	PY	0.25		86	87	26345	0.0025	0.0025	0.0025	170	358
168.09	168.54	QV		Quartz Vein	16	120.4	-69.1		86	86.3	Strong	Patchy	CH		86.6	87.3	25	SHZ	75.9	78.99	MG							87	88	26346	0.0025	0.0025	0.0025	255	390	
167.82	168.09	PEL		Metapelite	21	120.6	-69.2		122.61	124	Strong	Patchy	SI	patchy-per	112.45	112.55	40	SHZ	78.99	110.92	CG		78.99	110.9	DISS	PO	0.25		93	94	26347	0.027	0.115	0.0025	399	617
167.4	167.82	MS		Massive sulphide	24	120.7	-69.5						vasive	112.55	112.58	40	VEIN	110.92	122.61	MG		78.99	110.9	DISS	CP	0.5		94	95	26348	0.0025	0.058	0.0025	203	248	
155.81	167.4	PEL		Metapelite	27	120.8	-69.2		131.75	132	Moderate	Patchy	SI	Si alt?	115.03	115.1	3	F	122.61	139.64	CG		110.9	122.6	BLB-DISS	PY	1	110.5	111.5	26349						
150.04	155.81	MS		Massive sulphide	30	121.1	-69.2		142.1	143.3	Strong	Patchy	CH		115.03	115.1	78	VEIN	139.64	150.04	MG							2		26350	0.102	0.143	0.06	22000	8490	
139.64	150.04	PSAM		Meta-Psammite	33	121.1	-69.2		145.88	146	Strong	Pervasive	CH		120.25	120.3	60	VEIN	150.04	155.81	M		122.6	139.6	BLB-DISS	PO	1	113	114	26351	0.0025	0.0025	0.0025	42	376	
122.61	139.64	GAB		Gabbric	36	121.3	-69.2		146.31	146.7	Strong	Pervasive	CH		126	127.5	3	SHZ	155.81	167.4	MG		122.6	139.6	BLB-DISS	CP	3	114	115	26352	0.0025	0.0025	0.0025	22	199	
110.92	122.61	PSAM		Meta-Psammite	39	121.5	-69.2		147.7	147.95	Strong	Pervasive	CH		139.12	139.52	10	VEIN	167.4	167.82	M		139.6	150.0	BLB-DISS	CP	2	115	116	26353	0.0025	0.0025	0.0025	50	860	
78.99	110.92	GAB		Gabbric	42	121.4	-69.1							139.64	150.04	37	FOL	167.82	168.09	MG		139.6	150.0	BLB-DISS	PO	5	115	121	26354	0.0025	0.0025	0.0025	20	1510		
75.9	78.99	PSAM		Meta-Psammite	45	121.5	-69.1		145.45	145.51	40	VEIN	168.09	166.54	M		150.0	155.8	MASS	PY	2	121	122	26355	0.0025	0.0025	0.0025	37	860							
74.55	75.9	GAB		Gabbric	48	121.8	-68.8		155.81	167.4	22	FOL	168.54	169.29	FG		150.0	155.8	MASS	CP	8	122	123	26356	0.0025	0.012	0.021	259	1700							
72.05	74.55	PSAM		Meta-Psammite	51	122.1	-68.7		166.21	166.36	60	VEIN	169.29	175.34	MG		150.0	155.8	MASS	PO	82	123	124	26357	0.0025	0.0025	0.0025	103	358							
69.95	72.05	GAB		Gabbric	54	122.1	-68.6		166.47	166.58	10	VEIN	175.34	184.64	MG		155.8	162.8	BLB-DISS	PY	1	124	125	26358	0.0025	0.0025	0.0025	133	614							
68.35	69.95	MSED		Metasediment	57	122.3	-68.6		167.82	168.09	47	FOL	184.64	187.25	PEG		155.8	162.8	BLB-DISS	CP	2	125	126	26359	0.0025	0.0025	0.0025	86	184							
17.6	68.35	GAB		Gabbric	60	122.4	-68.6		168.54	169.29	65	FOL	187.25	186.96	MG		155.8	162.8	BLB-DISS	PO	3								26360	0.0025	0.0025	0.0025	1	4		
0	17.6	CAS		Casing	63	122.4	-68.6		169.29	175.34	60	FOL	188.96	190	MG		162.8	167.4	BLB-DISS	PY	6	126	127	26361	0.0025	0.0025	0.0025	50	119							
					66	122.3	-68.6		175.34	184.64	60	FOL					162.8	167.4	BLB-DISS	CP	0.5	127	128	26362	0.0025	0.0025	0.0025	65	136							
					69	122.3	-68.6		187.25	188.96	46	FOL					162.8	167.4	BLB-DISS	PO	3	136	137	26363	0.0025	0.0025	0.0025	60	136							
					72	122.2	-68.4		188.96	190	40	FOL					167.4	167.8	MASS	CP	7	137	138	26364	0.0025	0.0025	0.0025	111	244							
					75	122.1	-68.2										167.4	167.8	MASS	PO	8	138	139	26365	0.0025	0.0025	0.0025	70	157							
					78	122.2	-68.2										169.29	170	BLB-DISS	CP	2	139	140	26366	0.0025	0.023	0.053	404	3490							
					81	122.2	-68.3										169.29	170	BLB-DISS	PO	6	140	141	26367	0.03	0.085	0.033	1530	2250							
					84	122.2	-68.4																141	142	26368	0.074	0.19	0.02	1320	1790						
					87	122.2	-68.3																142	143	26369	0.013	0.183	0.007	2520	1550						
					90	122.3	-68.3																						26370	0.4925	7.9525	0.506	1790	1770		
					93	122.3	-68.3																143	144	26371	0.059	0.142	0.061	2060	3230						
					96	122.3	-68.3																144	145	26372	0.01	0.038	0.028	1190	2010						
					99	122.3	-68.2																145	146	26373	0.02	0.111	0.021	1720	3470						
					102	122.3	-68.2																146	147	26374	0.442	0.033	0.0025	2170	1990						
					105	122.3	-68.2																147	148	26375	0.0025	0.018	0.0025	453	2520						

Start Date: 28/Jan/08	Hole: HN-08-43	Southampton Ventures Inc. <i>Diamond Core Log Sheet</i>	Nothing: 6646762	Depth: 189 m
Completion Date: 30/Jan/08	Project: SV-HDN		Easting: 803430	Elevation: 254.832m
Azimuth: 124	Property: Horden Lake		Projection: UTM NAD83 Zone 18N Hole Diameter: NQ	
Dip: -70.3	Logged By: landry		Supervisor: []	
Survey Method: Reflex Maxibor	Date: 25/04/2008		Storage Location: Horden Lake	

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
	106				122.5	-68.2																								146	149	26376	0.01	0.089	0.019	2040	5420
	111				122.4	-68.3																								149	150.0	26377	0.009	0.053	0.018	932	3910
	114				122.4	-68.3																								150.0	150.5	26378	0.355	0.577	0.047	8270	9410
	117				122.5	-68.2																								150.5	151	26379	0.235	0.441	0.521	7760	19600
	120				122.4	-68.2																										26380	0.0025	0.0025	0.0025	9	21
	123				122.5	-68.1																								151	152	26381	0.102	0.487	0.061	9150	8960
	126				122.6	-68.1																								152	153	26382	0.13	0.805	0.155	8220	16600
	129				122.6	-68																								153	154	26383	0.092	0.537	0.159	77	386
	132				122.7	-68																								154	155.8	26384	0.442	0.449	0.228	8740	17200
	135				122.9	-67.9																								155.8	157	26385	0.0025	0.065	0.161	1125	17451.5
	136				123	-67.9																								157	158	26386	0.0025	0.0025	0.0025	92	544
	141				123.1	-67.8																								158	159	26387	0.02	0.094	0.011	956	2090
	144				123.1	-67.8																								159	160	26388	0.0025	0.0025	0.0025	25	44
	147				123.2	-67.8																								160	161	26389	0.0025	0.0025	0.0025	280	605
	150				123.3	-67.7																										26390	0.516	7.999	0.505	1540	1540
	153				123.4	-67.7																								161	162	26391	0.0025	0.0025	0.0025	27	74
	156				123.3	-67.7																								162	162.7	26392	0.0025	0.022	0.0025	80	212
	159				123.4	-67.6																								162.7	164.1	26393	0.029	0.319	0.012	3040	3890
	162				123.3	-67.5																								164.1	165	26394	0.011	0.019	0.0025	75	371
	165				123.3	-67.5																								165	165.5	26395	0.014	0.006	0.0025	56	33
	168				123.4	-67.5																								165.5	166	26396	0.0025	0.0025	0.0025	47	26
	171				123.5	-67.4																								166	167.4	26397	0.663	1.016	0.15	447	18600
	174				123.5	-67.3																								167.4	167.6	26398	0.026	0.352	0.006	6490	6080
	177				123.4	-67.2																								167.6	169	26399	0.0025	0.0025	0.0025	66	146
	183				123.4	-67																										26400	0.099	0.137	0.054	22900	9900
																														169	170.2	26401	0.01	0.028	0.019	369	1070
																														170.3	171	26407	0.0025	0.017	0.0025	373	1190
																														171	171.5	26498	0.0025	0.008	0.0025	42	364
																														171.5	172	26498	0.0025	0.0025	0.0025	10	18

Start Date: 28/Jan/08

Hole: HN-08-44

Southampton Ventures Inc.

Nothing: 6646818

Depth: 267 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303356

Elevation: 255.475m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -58.1

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays																						
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm													
0					0	124	-58.1		23.1	24.1	Moderate	Patchy	SI					23.1	24.1	BC		24.1	30.95	DISS	MT																								
									23.1	24.1	Strong	Pervasive	CH					23.1	24.1	M																													
									24.1	30.95	Strong	Pervasive	CH					23.1	24.1	MG/CG																													
									30.95	35.25	Weak	Pervasive	CH					24.1	24.4	BC																													
																		24.1	30.95	CG	originally CG, now FG extremely chl"																												
																		24.1	30.95	M																													
																		25.9	26.3	BC																													
																		30.8	30.95	BC																													
																		30.95	31.85	CM																													
																		30.95	31.85	FG																													
									32.3	32.6	Moderate	Pervasive	BT		31.8	33.3	70	FOL	31.85	36.05	FG/MG																												
																		33.3	36.25	M																													
																		36.05	36.25	CM																													
																		36.05	36.25	FG	VFG close to contact																												
									36.25	39.15	Strong	Pervasive	CH		36.2	36.25	65	CT	36.25	39.15	POIK	large 2-4 cm Px, 5-10%"	36.25	36.4	CON	PY	1		36.2	36.75	30775	0.0025	0.0025	0.0175	220	638													
																		36.25	39.15	M																													
																		36.25	39.15	CG																													
																		39.15	39.2	CM																													
																		39.15	39.6	VFG																													
																		39.15	39.6	FG																													
																		39.6	40.7	FG																													
																		40.7	42.3	FG/MG																													
																		42.3	42.5	FG																													
																		42.5	43.65	CM																													
																		42.5	43.65	VFG																													
																		43.65	94.05	POIK	5-10% polk Px																												
																		43.65	94.05	M																													
																		43.65	94.05	MG/CG																													
									94.05	97.25	Moderate	Pervasive	CH		94.05	97.25	30	FOL	94.05	97.25	M																												
																		94.05	97.25	MG	with FG Hbl																												
									97.25	100.8	Moderate	Pervasive	CH					97.25	100.8	POIK																													
																		97.25	100.8	M																													

Southampton Ventures Inc.

Start Date: 28/Jan/08
 Completion Date: 30/Jan/08
 Azimuth: 124
 Dip: -58.1
 Survey Method: Reflex Maxibor

Hole: HN-08-44
 Project: SV-HDN
 Property: Horden Lake
 Logged By: landry
 Date: 26/04/2008
 Storage Location: Horden Lake

Nothing: 6646818
 Easting: 303366
 Projection: UTM NAD83 Zone 18N Hole Diameter: NQ
 Depth: 267 m
 Elevation: 255.475m
 Supervisor: []

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
								103.8	105.2	Weak	Fract-Cont	SI		100.8	122.6	35	FOL	97.25	100.8	MG/CG																		
								103.8	123	Moderate	Pervasive	CH						100.8	134.7	M	local weak fol	101.5	102	DISS	CP	1			101.4	102	30776	0.0025	0.0025	0.0025	126	184		
								107	107.7	Moderate	Fract-Cont	SI						102.9	102.9	MG																		
																		102.9	106.2	MG/CG																		
																		106.2	108.1	FG/IMG																		
																		108.1	116	MG/CG																		
																		118	127.1	MG																		
								123	134.7	Weak	Pervasive	CH						127	129	CG																		
								126	131	Weak	Patchy	SI						129	134.7	MG/CG																		
								134.7	138.35	Weak	Pervasive	CH						134.7	136.75	M																		
																		134.7	136.75	CG																		
																		136.75	138.35	MG																		
																		137	138.35	35	FOL																	
								138.35	141.1	Weak	Pervasive	CH						138.35	136.9	MG/CG		141.1	148.2	DISS	CP		trace	143	143.6	30777	0.0025	0.0025	0.0025	25	161			
								141.1	146.2	Weak	Pervasive	CH						138.9	141.1	M								155.2	156	30778	0.0025	0.0025	0.0025	20	49			
								146.2	150	Weak	Fract-Cont	SI						138.9	141.1	FG/IMG																		
																		141.1	146.2	M	local weak fol																	
																		141.1	144.7	FG/IMG																		
																		144.7	146.2	MG																		
																		146.2	150.1	FG/IMG																		
																		146.2	155.2	M																		
																		146.7	147.4	BC																		
																		150.1	150.4	MG																		
																		150.4	154.4	FG/IMG																		
																		154.4	155.2	MG																		
																		155.2	156.96	CG	Qtz-Pl-Bt-rich																	
																		155.2	156.96	M																		
																		156.95	163.2	M																		
																		156.95	164.6	MG																		
								164.2	164.6	Moderate	Patchy	BT		163.2	164.6	75	FOL																					
								164.6	170.25	Moderate	Patchy	CH						164.6	170.25	M																		
								164.6	170.25	Weak	Patchy	SI	minor fracture control					164.6	170.1	FG	Bt-																	
																		170.1	170.25	MG																		

Start Date: 28/Jan/08

Hole: HN-08-44

Southampton Ventures Inc.

Northing: 5646818

Depth: 267 m

Completed on Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303356

Elevation: 255.475m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -58.1

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
								170.25	174.7	Moderate	Patchy	SI		170.25	174.7	70	FOL	170.25	174.7	MG	diff to tell due to alteration	174	174.7	DISS	CP			174	174.7	30779	0.027	0.054	0.0025	364	606				
								170.25	174.7	Moderate	Patchy	BT																											
								170.25	174.7	Strong	Pervasive	CH																											
								174.7	175.9	Weak	Patchy	CH			174.7	175.9		POBL	174.7	175.9	POBL	Crd	175.9	175.4	DISS	PY	1												
								175.9	181	Strong	Patchy	SI			174.7	175		BC	174.7	175	BC		199.1	199.7	Vein	CP	1												
								175.9	199.1	Moderate	Pervasive	CH			174.7	175.9		FG	174.7	175.9	FG	Bl mused, possible minor	199.7	199.7	CON	PY	1	near											
								176	176.4	Moderate	Patchy	BT																											
								181	187.8	Weak	Patchy	SI																											
								192.1	199.75	Strong	Fract-Cont	SI																											
								199.75	214.1	Moderate	Pervasive	CH			175.4	175.9		BC	175.4	175.9	BC		199.7	200.7	DISS	PY	0	near											
								207.15	207.5	Moderate	Fract-Cont	SI			175.9	199.1		M	175.9	199.1	M																		
								207.15	207.5	Moderate	Fract-Cont	CA			175.9	185.3		MG/CG	175.9	185.3	MG/CG		199.7	200.7	DISS	PY	0	contact w											
								214.1	214.6	Strong	Pervasive	CH			185.3	199.1		CG	185.3	199.1	CG		207.1	207.5	DISS	CP	1	near											
								214.6	218.7	Moderate	Pervasive	CH			185.3	199.6		MG/CG	185.3	199.6	MG/CG																		
															185.3	189.4		MG	185.3	189.4	MG		213.7	214.2	BLB	PY	2												
															199.75	202		CG	199.75	202	CG		213.7	214.2	BLB	CP	2												
															202	203.4		MG/CG	202	203.4	MG/CG		213.7	214.2	BLB	PO	1												
															203.4	205.6		CG	203.4	205.6	CG		217.3	218.7	DISS	MT	1												
															206.6	212.7		MG/CG	206.6	212.7	MG/CG		217.3	218.7		PO													
															212.7	214.2		CG	212.7	214.2	CG		217.3	218.7	DISS	CP	1												
															214.2	214.6		MG	214.2	214.6	MG																		
															214.6	216.7		M	214.6	216.7	M																		
															214.6	217.3		MG	214.6	217.3	MG																		
															217.3	218.7		POIK	217.3	218.7	POIK	one Px polk																	
															217.3	218.7		CG	217.3	218.7	CG																		
								218.7	220	Weak	Fract-Cont	SI		218.7	220	30	VEIN	218.7	220	M		218.7	223.5	DISS	CP														
								218.7	228.25	Weak	Patchy	BT			218.7	225.5		POIK	218.7	225.5	POIK		218.7	223.5	DISS	PO	2												
								218.7	228.25	Strong	Pervasive	CH			218.7	225.5		MG/CG	218.7	225.5	MG/CG		218.7	223.5	BLB-DISS	PY	3												
								228.25	228.9	Moderate	Pervasive	CH			225.5	228.25		MG	225.5	228.25	MG		223.3	223.4	ST	PY	10												
															228.25	228.9		M	228.25	228.9	M		223.3	223.4	ST	CP	15												
															228.25	228.9		MG	228.25	228.9	MG		225.5	227.5	DISS	PY													
															225.5	227.9		BLB	225.5	227.9	BLB		225.5	227.9	BLB	CP	2												
															225.5	227.9		BLB	225.5	227.9	BLB		225.5	227.9	BLB	PO	5												
															227.9	228.2		SMASS	227.9	228.2	SMASS		227.9	228.2	SMASS	PY	5												
															227.9	228.2		DISS	227.9	228.2	DISS		227.9	228.2	DISS	CP	1												
															227.9	228.2		SMASS	227.9	228.2	SMASS		227.9	228.2	SMASS	PO	20												

Start Date: 28/Jan/08

Hole: HN-08-44

Southampton Ventures Inc.

Northing: 6646818

Depth: 267 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903356

Elevation: 255.475m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -58.1

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
	228.9							228.9	230.5	Strong	Pervasive	CH		228.9	228.95	40	STRI	228.9	232.1	M		228.9	228.9	ST	PO	5	small stringer along contact										
																			228.9	232.1	MG		228.9	228.9	ST	CP	10	small stringer along contact									
																			228.9	232.1	BLB		228.9	228.9	BLB	PY	2										
																			228.9	232.1	BLB		228.9	228.9	BLB	CP	4										
																			228.9	232.1	BLB		228.9	228.9	BLB	PO	4										
								230.5	232.1	Moderate	Pervasive	CH						232.1	232.8	MG/CG		232.1	232.8	DISS	PY	1											
								232.1	232.8	Moderate	Pervasive	SI							232.1	232.8	DISS		232.1	232.8	DISS	PO	1										
								232.1	232.8	Moderate	Pervasive	CH							232.1	232.8	DISS		232.1	232.8	DISS	CP	2										
								232.8	237.2	Weak	Patchy	SR		232.8	240.95	60	FOL	232.8	240.95	FG	Bl-Ch mssd. minor MVOL component"	232.8	240.9	DISS	MT	1											
								232.8	240.95	Weak	Patchy	CH							232.8	236	DISS		232.8	236	DISS	CP	2										
								235.9	238	Weak	Fract-Cont	SI	local 2 cm qtz veins						237.05	237.2	MG		232.8	236	DISS	PO	2										
								237.2	237.4	Strong	Pervasive	CH							236	237	DISS		236	237.2	DISS	PY	2										
																			236	237.2	DISS		236	237.2	DISS	CP	1										
																			236	237.2	BLB-DISS		236	237.2	BLB-DISS	PO	10										
																			237.0	237.2	INT		237.0	237.2	INT	PO	10										
																			237.2	237.4	SMASS		237.2	237.4	SMASS	PY	10										
																			237.2	237.4	SMASS		237.2	237.4	SMASS	PO	15										
																			237.4	240.6	BLB-DISS		237.4	240.6	BLB-DISS	PY	5										
																			237.4	240.9	DISS		237.4	240.9	DISS	CP	2										
																			237.4	240.6	BLB-DISS		237.4	240.6	BLB-DISS	PO	7										
								240.95	241.95	Weak	Patchy	CH							240.95	241.95	FG		240.95	241.95	BLB	PY	1										
								241.95	244.32	Moderate	Pervasive	CH							241.95	244.32	FG		240.95	241.95	BLB	PO	2										

Page: 4 of 6

Start Date: 28/Jan/08

Hole: HN-08-44

Southampton Ventures Inc.

Nothing: 664681B

Depth: 267 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303366

Elevation: 255.475 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -58.1

Logged By: landry

Supervisor: [[View in Context](#)]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
								244.45	244.52	Moderate	Patchy	CH						246.16	246.63	FG		240.9	241.9	DISS	CP	0														
								244.45	244.52	Moderate	Fract-Cont	SI						247.82	248.42	FG	grey	240.9	241.9	DISS	MT	1														
								244.52	244.66	Strong	Patchy	CH									pramnite, Q-F	241.9	243.5	DISS	PO	2														
								244.66	246.16	Moderate	Patchy	CH										241.9	244.3	DISS	CP	1														
								246.16	246.63	Strong	Patchy	CH										241.9	244.3	DISS	MT	1														
								246.63	247.5	Moderate	Patchy	CH										242.1	242.1	BLB	MT	50														
																						243.5	244.3	BLB	PO	10														
																						244.3	244.5	DISS	MT	50														
																						244.3	244.5	BLB	CP	5														
																						244.3	244.5	MASS	PO	90														
																						244.5	244.6	ST	CP	5														
																						244.5	244.6	ST	PO	5														
																						244.6	246.1	DISS	MT	2														
																						244.6	246.0	BLB	PY	2														
																						244.6	246.0	BLB	CP	5														
																						244.6	246.0	MASS	PO	85														
																						246.0	246.1	SMASS	PY	50														
																						246.1	246.6	DISS	PY	2														
																						246.1	246.6	ST	CP	5														
																						246.6	247.5	DISS	PY	1														
																						246.6	247.5	BLB	CP	4														
																						246.6	247.5	MASS	PO	90														
																						247.5	247.6	DISS	PO	2														
																						247.5	247.6	ST	CP	5														
																						247.6	247.8	MASS	PO	85														
																						247.6	247.8	DISS	CP	2														
																						247.8	248.4	DISS	MT	50														
																						248.4	248.7	MASS	PY	75														
																						249.1	249.5	DISS	CP	5														
																						249.1	249.5	SMASS	PY	20														
																						250.1	250.2	MASS	CP	75														
								250.1	250.26	Moderate	Patchy	CH										250.26	252.3	FG																
								250.26	250.4	Strong	Patchy	CH																												
								255	255.3	Strong	Fract-Cont	SI																												

Start Date: 28/Jan/08

Hole: HN-08-44

Southampton Ventures Inc.

Nothing: 6646818

Depth: 267 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303356

Elevation: 255.475m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -58.1

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
								255.3	267.3	Weak	Patchy	CH						255.3	258.8	FG	Bl-Ms schists, minor Crd, Chl																		
255.3	267.3	PEL		Metapelite														258.8	260	FG	Chl-Bt melased, minor rrvol component"																		
255	255.3	QV		Quartz Vein														260	267.3	POBL	Grt, Crd"																		
																		260	265	FG/MG	Ms-Crd schist																		
																		265	267.3	FG/MG	Bl-Ms-Grt-Crd schists, minor Crl"																		

Start Date: 28/Jan/08

Hole: HN-08-45

Southampton Ventures Inc.

Nothing: 5646818

Depth: 284 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303365

Elevation: 255.604 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.9

Logged By: Iandry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
287.2	284.35	PSAM		Meta-Psammite	0	124	-69.9		171.5	172	Strong	Pervasive	BT		21	33.5	50	FOL	21	45	MG		171.7	171.8	DISS	CP	3		180	161	25368	0.014	0.013	0.031	571	1540	
285.63	287.2	MVOL		Mafic Volcanic	3	124.2	-69.6		172.6	173.6	Moderate	Pervasive	CH		89	90.35	25	FR	33.5	45	M		180.6	180.8	BLB-DISS	PY	1.5		187	168	25369	0.017	0.029	0.0025	95	256	
286.4	285.63	PSAM		Meta-Psammite	6	124.1	-69.4		185.5	188.3	Strong	Patchy	SI		90.35	91.75	5	SHZ	45	74	M		180.6	180.8	BLB-DISS	CP	2				7.8725	0.467	1450	1350			
199.25	266.4	GAB		Gabbro	9	123.9	-69.1		199.35	200.6	Strong	Patchy	SI		105.2	105	25	FR	45	74	CG		180.6	180.8	BLB-DISS	PO	3		196	197	25371	0.014	0.025	0.007	34	363	
191.02	199.25	FD		Felsic Dyke	12	123.7	-68.7		221.35	222.1	Strong	Patchy	SI		122.95	123.2	10	VEIN	74	117	M		191.0	199.2	DISS	CP	1		197	198	25372	0.0025	0.008	0.011	39	620	
117	191.02	GAB		Gabbro	15	123.5	-68.5		233.5	235.5	Moderate	Patchy	SI		123.5	123.65	40	VEIN	74	117	CG		228	251	BLB-DISS	CP	1.5		198	199.5	25373	0.005	0.007	0.013	96	657	
74	117	MGAB		Melagabbro	16	123.4	-68.5		245	246.5	Moderate	Patchy	SI		125.05	125.2	40	VEIN	117	176	M	Mostly	228	251	BLB-DISS	PO	2		211.2	211.7	25374	0.009	0.017	0.028	39	40	
45	74	PXE		Metaproxenite	21	123.4	-68.7		280.53	280.63	Strong	Patchy	CH		132	132.2	20	FR				massive, but	251	265.4	BLB-DISS	PY	1.5		221	222	25375	0.009	0.0025	0.0025	46	28	
21	45	GAB		Gabbro	24	123.4	-68.7		280.53	280.63	Strong	Patchy	SI		134.5	135.05	30	FOL				partly foliated"	251	265.4	BLB-DISS	CP	2.5		228	229	25376	0.016	0.008	0.011	110	127	
0	21	CAS		Casing	27	123.4	-68.4								143.35	143.45	30	FR	117	176	CG		251	265.4	BLB-DISS	PO	5		229	230	25377	0.011	0.015	0.022	81	120	
					30	123.4	-68.2								144.18	144.24	55	VEIN	191.02	199.25	MG		266.4	278.2	BLB-DISS	PY	1.5		230	231	25378	0.013	0.007	0.012	66	153	
					33	123.5	-68.2								159.5	159.7	30	FR	199.25	266.4	M		266.4	278.2	BLB-DISS	CP	3		231	232	25379	0.013	0.01	0.008	64	139	
					36	123.7	-68.1								170.15	174.05	60	FOL	199.25	266.4	CG		266.4	278.2	BLB-DISS	PO	6				25380	0.0025	0.0025	0.0025	0.5	4	
					39	123.9	-68								170.15	174.05	60	SHZ	243.46	244.2	BC	Broken core,	273	274	DISS	MT	5		232	233	25381	0.016	0.101	0.012	81	215	
					42	124.1	-67.8								179.9	184.24	5	FR				lots of small	273.8	273.8	BLB	PB	2						0.025	0.025	0.025	86	109
					45	124.1	-67.7								185.1	185.5	5	FR				pieces"											0.006	0.006	0.0025	147	121
					48	124.1	-67.6								211.25	211.55	22	VEIN	266.4	285.63	MG												0.0025	0.014	0.0025	208	302
					51	124.1	-67.6								221.4	222	5	FR	285.63	267.2	FG												0.027	0.0025	0.025	251	493
					54	124	-67.6								228.13	228.35	30	VEIN	287.2	294.35	MG													0.064	0.021	574	1310
					57	124.1	-67.5								234.58	234.73	52	SHZ															0.015	0.074	0.023	687.5	1670
					60	124.1	-67.6								254.87	254.97	40	VEIN															0.0025	0.011	0.0025	90	258.5
					63	124.3	-67.6								266.4	265.63	57	FOL															0.008	0.0025	0.0025	52	219.5
					66	124.3	-67.5								285.63	287.2	50	FOL															7.954	0.468	1430	1420	
					69	124.3	-67.5								287.2	294.35	60	FOL															0.0225	0.045	0.041	429	770
					72	124.4	-67.3																										0.048	0.096	0.065	885	2030
					75	124.5	-67.4																									0.04	0.079	0.061	702	1600	
					78	124.4	-67.4																									0.037	0.023	187	437		
					81	124.4	-67.3																									0.013	0.028	0.013	210	331	
					84	124.4	-67.4																									0.018	0.014	0.008	139	66	
					87	124.3	-67.6																									0.019	0.017	0.008	138	76	
					90	124.4	-67.6																									0.039	0.027	243	707		
					93	124.4	-67.5																									0.035	0.063	0.045	687	1890	
					96	124.6	-67.5																									0.109	0.133	0.048	23850	8600	
					99	124.5	-67.5																									0.015	0.038	0.018	303	947	
					102	124.5	-67.5																									0.042	0.114	0.058	1030	3260	
					105	124.6	-67.6																									0.0715	0.2485	0.2345	2680	5740	

Start Date: 28/Jan/08

Hole: HN-08-45

Southampton Ventures Inc.

Nothing: 6646818

Depth: 284 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303365

Elevation: 255.604m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.9

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
					108	124.7	-67.5																						253	254	25404	0.083	0.237	0.155	2860	4370
					111	124.6	-67.6																						254	255	25405	0.068	0.147	0.108	1890	3330
					114	124.9	-67.6																						255	256	25406	0.03	0.106	0.179	981	4110
					117	124.9	-67.6																						256	257	25407	0.055	0.204	0.265	2568	6767
					120	124.9	-67.6																						257	258	25408	0.043	0.12	0.249	2580	5460
					123	124.9	-67.5																						258	259	25409	0.072	0.248	0.234	1070	5490
					126	125	-67.5																								25410	0.0025	0.0025	0.0025	4	19
					129	125	-67.5																						259	260	25411	0.078	0.159	0.2	1560	6500
					132	125	-67.5																						260	261	25412	0.068	0.222	0.245	2110	7860
					135	125	-67.5																						261	262	25413	0.068	0.176	0.145	1230	4250
					136	124.9	-67.4																						262	263	25414	0.026	0.049	0.188	465	3490
					141	124.9	-67.4																						263	264	25415	0.086	0.07	0.078	588	3020
					144	125	-67.4																						264	265	25416	0.026	0.013	0.014	25	147
					147	125	-67.6																						265	266	25417	0.059	0.093	0.213	353	1290
					150	125.1	-67.5																						266	267	25418	0.042	0.049	0.222	205	1970
					153	125.2	-67.5																						267	268	25419	0.067	0.09	0.266	303	3320
					156	125.2	-67.5																								25420	0.509	8.058	0.498	1630	1490
					159	125.3	-67.5																						268	269	25421	0.092	0.197	0.225	2350	6680
					162	125.2	-67.4																						269	270	25422	0.021	0.085	0.13	1360	3520
					165	125.2	-67.5																						270	271	25423	0.0425	0.0965	0.061	1260	2330
					168	125.3	-67.4																						271	272	25424	0.11	0.122	0.049	2670	2780
					171	125.2	-67.4																						272	273	25425	0.056	0.419	0.08	3310	2370
					174	125.2	-67.4																						273	274	25426	0.031	0.095	0.105	775	1700
					177	125.3	-67.4																						274	275	25427	0.098	0.189	0.065	3770	6600
					180	125.3	-67.3																						275	276	25428	0.013	0.018	0.011	70.5	153
					183	125.3	-67.4																						276	277	25429	0.012	0.016	0.009	31	102
					186	125.4	-67.3																								25430	0.0025	0.0025	0.0025	0.5	5
					189	125.4	-67.4																						277	278	25431	0.01	0.012	0.014	1230	1370
					192	125.5	-67.3																						278	279	25432	0.012	0.022	0.01	235	1270
					195	125.6	-67.3																						279	280	25433	0.01	0.0025	0.015	10	10
					198	125.7	-67.4																						280	281	25434	0.0025	0.0025	0.0025	7	16
					201	125.7	-67.5																						281	282	25435	0.0025	0.0025	0.0025	8	2
					204	125.7	-67.4																						282	283	25436	0.0025	0.0025	0.0025	11	17
					207	125.8	-67.4																						283	284	25437	0.0025	0.0025	0.0025	8	10
					210	125.9	-67.3																						284	285	25438	0.0025	0.0025	0.0025	6	43
					213	125.9	-67.5																						285	287	25439	0.0025	0.0025	0.0025	10	58

Start Date: 28/Jan/08

Hole: HN-08-45

Southampton Ventures Inc.

Northing: 6646818

Depth: 294 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803365

Elevation: 255.604m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.9

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
					216	125.8	-67.3																																
					219	125.8	-67.4																																
					222	125.8	-67.4																																
					225	125.7	-67.3																																
					228	125.5	-67.3																																
					231	125.5	-67.2																																
					234	125.6	-67.3																																
					237	125.6	-67.4																																
					240	125.6	-67.3																																
					243	125.5	-67.4																																
					246	125.6	-67.3																																
					249	125.7	-67.3																																
					252	125.5	-67.3																																
					255	125.5	-67.4																																
					258	125.5	-67.4																																
					261	125.5	-67.3																																
					264	125.4	-67.2																																
					267	125.3	-67.2																																
					270	125.4	-67.3																																
					273	125.4	-67.1																																
					276	125.5	-67.1																																
					279	125.5	-66.9																																
					282	125.7	-66.7																																
					286	125.7	-66.4																																

Start Date: 28/Jan/08

Hole: HN-08-46

Southampton Ventures Inc.

Northing: 6648867

Depth: 348 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303287

Elevation: 254.783 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -59

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
0					0	124	-59											24.1	30.88	M								25	26	26014	0.0025	0.0025	0.0025	66	136					
														25.72	25.76	55	VEIN																							
																		30.88	36.73	M	foliated near lithological contact																			
																		30.88	38.73	FG																				
														38.73	39	25	FOL		38.73	43.13	M																			
																		38.73	43.13	CG																				
														43.13	45.74	55	FOL		43.13	45.74	MG																			
																		45.74	60.17	M	foliated near contact with next rock unit							50	51	26017	0.007	0.0115	0.0025	31	57					
																		45.74	60.17	CG																				
																		50.73	50.77	55	SHZ																			
																		57.16	57.95	60	SHZ																			
																		60.65	60.9	45	SHZ																			
									60.83	64.55	Strong	Pervasive	CH					80.17	80.83	MG	weakly foliated																			
																		80.83	86.73	FG																				
																		86.73	90.5	MG	MG-FG																			
																		90.5	94.33	M																				
																		90.5	94.33	CG																				
																		94.33	95.55	M																				
																		94.33	95.55	FG																				
																		95.55	104.15	M																				
																		95.55	104.15	CG																				
																		104.15	110.02	M																				
																		104.15	110.02	FG																				
																		110.02	120.85	M																				
																		110.02	120.85	CG																				
																		120.85	126.36	M																				
																		120.85	126.36	MG																				

Start Date: 28/Jan/08

Hole: HN-08-46

Southampton Ventures Inc.

Northing: 6648867

Depth: 348 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903287

Elevation: 254.783 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -59

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
338.31	339.6	MVOL		Mafic Volcanic																																				
331.47	331.65	MS		Massive sulphide																																				
339.6	348	MSED		Metasediment																																				

Start Date: 28/Jan/08 Hole: HN-08-47 **Southampton Ventures Inc.** Nothing: 6648867 Depth: 363 m
 Completed Date: 30/Jan/08 Project: SV-HDN **Diamond Core Log Sheet** Easting: 303287 Elevation: 254.783 m
 Azimuth: 124 Property: Horden Lake Projection: UTM NAD83 Zone 18N Hole Diameter: NQ
 Dip: -69.5 Logged By: Iandry Supervisor: [REDACTED]
 Survey Method: Reflex Maxibor Date: 25/04/2008 Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
299.9	300.8	PSAM		Meta-Psammite	106	129.7	-69.9		48.2	76.3	Moderate	Patchy	SI	moderate	320.8	320.8	40	CT	99.35	102.35	CG		116.3	127.3	FRA	PY	1	associated	96	97	27487	0.0025	0.025	0.021	36	695
299.35	299.9	LGAB		Leuco/Anorthic Gab	111	129.7	-69.8							326.85	327.02	65	DYKE	102.35	103.4	FG	with quartz	97	98	27488	0.0025	0.019	0.03	39	678							
297.45	299.35	PSAM		Meta-Psammite	114	129.9	-69.6							327.3	327.31	55	CT	103.4	110.95	CG	veining/silic	98	99	27489	0.0025	0.014	0.0025	20	75							
282	287.45	LGAB		Leuco/Anorthic Gab	117	130	-69.6		48.2	49	Weak	Patchy	BT		327.54	327.55	55	CT	110.95	111.1	CM	floaton			27490	0.4955	7.953	0.4945	1750	1660						
270.9	292	GAB		Gabbro	120	130.1	-69.7		48.2	48.4	Strong	Pervasive	CH		342.14	342.15	45	CT	111.1	111.54	VFG	along liny	99	100	27491	0.009	0.015	0.0025	311	130						
269.45	270.9	PSAM		Meta-Psammite	123	130.3	-69.6		48.4	49	Moderate	Patchy	CH		342.15	354.1	45	FOL	111.54	115.6	FG/IMG	fractures in	100	101	27492	0.046	0.072	0.0025	415	185						
267.35	269.45	GAB		Gabbro	126	130.7	-69.6		56.83	59.02	Weak	Patchy	BT		354.1	354.7	60	FOL	115.6	116.07	VFG	core	113	114	27493	0.0055	0.00375	0.0115	31	43						
259.05	267.35	PSAM		Meta-Psammite	129	130.9	-69.5		56.83	59.02	Moderate	Patchy	CH		354.7	357.05	45	FOL	116.07	116.35	CM		116.3	127.3	FRA	PO	1.5	associated	114	115	27494	0.0025	0.017	0.0025	27	88
245.25	259.05	GAB		Gabbro	132	131.2	-69.4		59.02	59.16	Strong	Pervasive	BT		356.78	356.8	75	VEIN	116.35	127.31	MG/CG	with quartz	115	115.5	27495	0.006	0.018	0.0025	32	82						
237.05	245.25	MGAB		Mafic Melagab	135	131.3	-69.2		59.02	59.16	Strong	Pervasive	CH		357.05	363	25	FOL	127.31	126.78	CM															
215.95	237.05	GAB		Gabbro	136	131.3	-69.1		59.16	59.38	Weak	Patchy	BT						127.78	129.9	FG	veining/silic	115.5	116.3	27496	0.01	0.021	0.0025	36	56						
213	215.95	QGAB		Qtz bearing gao	141	131.3	-68.9		59.16	59.38	Moderate	Patchy	CH						129.9	131.18	FG/IMG	along liny	117	118	27498	0.0025	0.014	0.0025	55	378						
205.8	213	GAB		Gabbro	144	131.4	-68.8		66.06	66.45	Strong	Patchy	BT						131.18	133.2	VFG	fractures in	118	119	27499	0.008	0.014	0.0025	56	206						
150.3	205.8	MGAB		Mafic Melagab	147	131.5	-68.8		66.61	69.9	Strong	Fract-Cont	SI						133.2	133.85	FG/IMG	amphibole					0.15	0.049	22000	8970						
144.95	150.3	PXE		Pyroxenite	150	131.6	-68.9		69.61	69.9	Strong	Fract-Cont	A	amphibole					133.85	142.7	CG	alteration	128	133.8	FRA	PO	2	associated	119	120	27501	0.01	0.019	0.02	93	1200
142.7	144.95	MGAB		Mafic Melagab	153	131.7	-68.7												142.7	144.95	CG	with SI	120	121	27502	0.0025	0.016	0.0025	56	139						
133.85	142.7	PXE		Pyroxenite	156	131.8	-68.8												144.95	146.6	CG	alteration	121	122	27503	0.007	0.016	0.041	76	128						
127.31	133.85	MD		Mafic Dyke	159	131.9	-68.8												146.6	149.5	FG/IMG	until	122	123	27504	0.0025	0.022	0.101	86	339						
116.35	127.31	MGAB		Mafic Melagab	162	132	-68.7												149.5	150.3	FG/IMG	fractures	123	124	27505	0.0025	0.013	0.00375	58	136						
110.95	116.35	MD		Mafic Dyke	165	132	-68.7		72.9	73.3	Weak	Pervasive	BT						150.3	162.85	CG	where it is	124	125	27506	0.0025	0.017	0.017	86	211						
102.35	110.95	MGAB		Mafic Melagab	168	132.1	-68.8		72.9	73.3	Strong	Pervasive	CH						162.85	163.85	MG/CG	also found	125	126	27507	0.0025	0.014	0.009	56	172						
99.35	102.35	PXE		Pyroxenite	171	132.2	-68.8		74.15	74.68	Weak	Pervasive	BT						163.85	170.26	CG	associated	126	127	27508	0.0025	0.013	0.009	70	543						
97.38	99.35	MD		Mafic Dyke	174	132.3	-68.9		74.15	74.68	Weak	Pervasive	CH						170.26	171.65	FG	with	127	127.5	27509	0.0025	0.015	0.0025	21	216						
89.87	97.38	MGAB		Mafic Melagab	177	132.5	-68.9		76.55	69.87	Moderate	Patchy	SI																							
76.55	89.87	GAB		Gabbro	180	132.6	-68.9		76.55	69.87	Moderate	Patchy	CH																							
76.3	76.55	LC		Lost Core	183	132.6	-68.8		81	87.3	Moderate	Patchy	BT																							
48.2	76.3	GAB		Gabbro	186	132.7	-68.8		87.3	88.2	Strong	Pervasive	BT																							
45.2	48.2	DD		Diabase Dyke	189	132.9	-68.9		88.2	69.87	Moderate	Patchy	BT																							
40.2	45.2	LGAB		Leuco/Anorthic Gab	192	133	-68.8		69.87	92	Weak	Patchy	BT																							
33.5	40.2	DD		Diabase Dyke	195	133.1	-68.9																													
21	33.5	LGAB		Leuco/Anorthic Gab	198	133.2	-68.9		95.3	97.38	Strong	Patchy	CH	to moderate																						
0	21	CAS		Casing	201	133.4	-68.9		95.3	97.38	Weak	Patchy	BT	to moderate																						
					204	133.5	-68.9																													
					207	133.6	-68.9																													
					210	133.7	-68.8																													
					213	133.8	-68.9																													

Start Date: 28/Jan/08

Hole: HN-08-47

Southampton Ventures Inc.

Nothing: 6648867

Depth: 363 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303287

Elevation: 254.783m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.5

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
	216				133.8	-68.9		97.38	97.9	Weak	Fract-Cont	SI	3 small fractures (<1cm thick)					205.8	208	CG	change in composition; less pyroxenes than uphole CG interval	148.2	148.6	FRA	PY	0.05	associated with SI in fracture	165.5	166.5	27523	0.0025	0.0025	0.0025	232	45				
	219				134	-68.9																																	
	222				134.2	-68.8																																	
	225				134.3	-71.4																																	
	228				134.5	-68.9		97.38	99.35	Weak	Pervasive	CH																											
	231				134.6	-68.8		99.35	102.35	Weak	Pervasive	SI						212	212.3	BLO	many small pieces of quartz mixed in with the gaobro;	165.5	170	DISS	PY	0.05	associated with SI in fracture	168	169	27526	0.014	0.006	0.0025	176	44				
	234				134.8	-68.9		99.35	102.35	Strong	Pervasive	CH																											
	237				134.9	-68.9		102.35	103.2	Moderate	Patchy	CH																											
	240				134.9	-68.9		102.35	103.4	Moderate	Pervasive	BT																											
	243				135	-69		103.2	103.4	Strong	Fract-Cont	SI																											
	246				135.1	-68.9		103.2	103.4	Strong	Fract-Cont	CH	in fracture with SI																										
	249				135.2	-68.8																																	
	252				135.3	-69																																	
	255				135.4	-69		103.4	110.95	Moderate	Patchy	CH																											
	258				135.4	-69		103.4	110.95	Moderate	Patchy	BT																											
	261				135.7	-68.9		110.95	116.35	Weak	Pervasive	CH																											
	264				135.7	-68.8		116.35	127.31	Weak	Fract-Cont	SI	associated with the mineralization																										
	267				135.8	-68.9																																	
	270				135.9	-68.9																																	
	273				136.1	-68.9																																	
	276				136.2	-68.9		126.68	126.75	Weak	Patchy	CH																											
	279				136.4	-69		126.68	126.75	Moderate	Patchy	K	patch of SI and K-spar																										
	282				136.5	-68.9																																	
	285				136.6	-69																																	
	288				136.8	-69		126.68	126.75	Strong	Patchy	SI	patch of SI and K-spar																										
	291				136.9	-68.9																																	
	294				137.1	-69																																	
	297				137.2	-68.9		127.31	133.85	Moderate	Pervasive	CH																											
	300				137.5	-68.9																																	
	303				137.6	-68.8																																	
	306				137.8	-68.8																																	
	309				138	-68.7																																	
	312				138.3	-68.6																																	
	315				138.4	-68.8																																	
	318				138.5	-68.7																																	
	321				138.7	-68.7																																	

Start Date: 28/Jan/06

Hole: HN-08-47

Southampton Ventures Inc.

Nothing: 6648867

Depth: 363 m

Completed on Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303287

Elevation: 254.783m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.5

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
324	138.8					-68.7		128	133.85	Moderate	Fract-Cont	SI	numerous					274.65	292	CG		274.6	292	FRA	CP	0.5		260	261	27569	0.0025	0.0025	0.0025	11	100			
327	139					-68.8							small					292	297.45	MG/CG		274.6	292	FRA	PO	1	trace is Diss			27560	0.0025	0.0025	0.0025	4	7			
330	139.1					-68.8							fractures;					297.45	299.35	MG/CG	ord-ht schist	292	297.4	FRA	PY	1		261	262	27581	0.0025	0.0025	0.0025	52	240			
333	139.2					-68.7							mineralizat					298.35	299.9	MG/CG		292	297.4	DISS	PO	1		262	263	27562	0.0025	0.0025	0.007	21	367			
336	139.3					-68.8							ion					299.9	300.8	MG/CG	bt-schist with	297.4	299.3	DISS	CP	1		263	264	27563	0.0025	0.0025	0.0025	11	214			
339	139.5					-68.7							associated									297.4	299.3	DISS	PY	3		264	265	27564	0.006	0.006	0.006	11	558			
342	139.8					-68.6							with the									297.4	299.3	DISS	PO	1		265	266	27565	0.0025	0.006	0.0025	32	226			
345	140					-68.7							silicificatio														only											
346	140.2					-68.6							n													slightly												
354	140.2					-68.5												300.8	309.25	CG						magnetic;												
										129.45	129.85	Strong	Fract-Cont	CH				309.25	309.7	MG/CG	bt-schist					possibly												
										129.45	129.85	Strong	Fract-Cont	SI				309.7	315.35	CG						PENT												
										132.55	133.85	Weak	Fract-Cont	A	some																							
													mineralizat																									
													ion																									
													associated																									
													with																									
													Amphibole																									
													alteration																									
										133.85	142.7	Strong	Fract-Cont	CH	CH is																							
													stronger																									
													at																									
													fractures																									
													throughout																									
													unit																									
										133.85	142.7	Moderate	Pervasive	SI																								
										133.85	142.7	Moderate	Pervasive	CH																								
										142.7	144.95	Moderate	Pervasive	CH																								
										142.7	144.95	Moderate	Patchy	BT																								
										143.2	143.3	Strong	Fract-Cont	CH																								
										143.2	143.3	Strong	Fract-Cont	BT																								
										144.55	144.85	Strong	Fract-Cont	CH																								
										144.55	144.85	Strong	Fract-Cont	BT																								
										144.95	146.5	Weak	Patchy	BT																								
										144.95	146.5	Moderate	Pervasive	CH																								

Start Date: 28/Jan/08

Hole: HN-08-47

Southampton Ventures Inc.

Northing: 6648867

Depth: 363 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903287

Elevation: 254.783 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.5

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
								147.6	148.6	Moderate	Pervasive	A	to weak metamorphic amphibole					322.2	325.4	MG/CG	anthophyllite bearing melased.	316.9 316.9 DISS	316.9 320.2 DISS	316.9 320.2 DISS	PO	5		294	295	27596	0.0025	0.0025	0.015	59	72
								148.25	148.6	Weak	Patchy	K									316.9 316.9 DISS	316.9 320.2 DISS	316.9 320.2 DISS	ILM	0.5		295	295	27597	0.0025	0.0025	0.0025	46	83	
								148.25	148.6	Strong	Patchy	SI									316.9 320.2 DISS	316.9 320.2 DISS	316.9 320.2 DISS	CP	3		296	297	27598	0.0025	0.0025	0.0025	45	108	
								150.3	205.8	Moderate	Pervasive	CH	throughout unit exceptions noted below					325.4	325.95	CG	Biotite, quartz, feldspar also present	316.9 320.2 DISS	320.8 321.3 DISS	320.8 321.3 BLB-DISS	PO	10		297	298	27599	0.0025	0.0025	0.0025	80	343
																					320.8 321.3 DISS	321.8 322.2 DISS	321.8 322.2 BLB-DISS	CP	5		298	299	27600	0.037	0.1456	0.0475	21700	8690	
																					321.8 322.2 DISS	321.8 322.2 DISS	321.8 322.2 DISS	PO	15		299	300	27601	0.0025	0.0025	0.0025	26	337	
																					322.2 325.4 DISS	322.2 325.4 DISS	322.2 325.4 DISS	PO	5		300	300	27602	0.013	0.015	0.0025	87	567	
																					322.2 325.4 DISS	321.8 322.2 DISS	321.8 322.2 DISS	PY	3		301	301	27603	0.02	0.018	0.0025	79	581	
																					322.2 325.4 DISS	321.8 322.2 DISS	321.8 322.2 DISS	CP	2		302	302	27604	0.026	0.036	0.0025	136	252	
																					322.2 325.4 DISS	322.2 325.4 DISS	322.2 325.4 DISS	MT	4		301	303	27605	0.01	0.028	0.0025	101	139	
																					322.2 325.4 DISS	322.2 325.4 DISS	322.2 325.4 DISS	PY	3		303	304	27606	0.022	0.029	0.0025	94	265	
																					322.2 325.4 BLB-DISS	322.2 325.4 BLB-DISS	322.2 325.4 BLB-DISS	CP	10		304	305	27607	0.0025	0.0025	0.0025	57	94	
																					322.2 325.4 BLB-DISS	322.2 325.4 BLB-DISS	322.2 325.4 BLB-DISS	CP	10		305	306	27608	0.0065	0.013	0.036	224	1010	
																					322.2 325.4 BLB-DISS	322.2 325.4 BLB-DISS	322.2 325.4 BLB-DISS	CP	30		306	307	27609	0.01	0.014	0.005	86	268	
																					322.2 325.4 BLB-DISS	322.2 325.4 BLB-DISS	322.2 325.4 BLB-DISS	PO	30		307	308	27610	0.0025	0.0025	0.0025	0.5	3	
																					325.4 325.9 DISS	325.4 325.9 DISS	325.4 325.9 DISS	CP	5		307	308	27611	0.0025	0.0025	0.0025	97	195	
																					325.4 325.9 DISS	325.4 325.9 DISS	325.4 325.9 DISS	PO	15		308	309	27612	0.0025	0.009	0.0025	45	123	
																					325.9 328.8 DISS	325.9 328.8 DISS	325.9 328.8 DISS	MT	4		309	310	27613	0.0025	0.0025	0.0025	67	159	
																					325.9 328.8 DISS	325.9 328.8 DISS	325.9 328.8 DISS	PY	2		310	311	27614	0.0025	0.008	0.0025	928.5	2585.5	
																					325.9 328.8 DISS	325.9 328.8 DISS	325.9 328.8 DISS	CP	5		311	312	27615	0.0025	0.014	0.0025	91	113	
																					325.9 328.8 DISS	325.9 328.8 DISS	325.9 328.8 DISS	PO	20		312	313	27616	0.0025	0.007	0.0025	99	100	
																					326.8 327 DISS	326.8 327 DISS	326.8 327 DISS	CP	2		313	314	27617	0.0025	0.0025	0.0025	117	189	
																					326.8 327 SMASS	326.8 327 SMASS	326.8 327 SMASS	PO	45		314	314.5	27618	0.0025	0.045	0.006	127	628	
																					327 327.3 DISS	327 327.3 DISS	327 327.3 DISS	MT	4		314.5	315.3	27619	0.0025	0.0025	0.0025	83	49	
																					327 327.3 DISS	327 327.3 DISS	327 327.3 DISS	PY	2		328.05	328.15	27620	0.5025	7.9176	0.4865	1680	1530	
																					327 327.3 DISS	327 327.3 DISS	327 327.3 DISS	CP	5		315.3	316	27621	0.019	0.0025	0.005	11	52	
																					327 327.3 DISS	327 327.3 DISS	327 327.3 DISS	PO	20		316	317	27622	0.018	0.025	0.0025	424	1120	
																					327.3 327.5 DISS	327.3 327.5 DISS	327.3 327.5 DISS	CP	10		317	318	27623	0.0025	0.024	0.0145	442.5	661.5	
																					327.3 327.5 BLB-DISS	327.3 327.5 BLB-DISS	327.3 327.5 BLB-DISS	PO	30		318	319	27624	0.021	0.055	0.021	626	1245	
																					327.5 328.0 DISS	327.5 328.0 DISS	327.5 328.0 DISS	MT	4		319	320	27625	0.0025	0.061	0.053	999.5	2080	
																					327.5 328.0 DISS	327.5 328.0 DISS	327.5 328.0 DISS	PY	3		320	321	27626	0.021	0.05	0.062	777	2070	
																					327.5 328.0 DISS	327.5 328.0 DISS	327.5 328.0 DISS	CP	10		321	322	27627	0.014	0.042	0.161	562	2450	
																					327.5 328.0 BLB-DISS	327.5 328.0 BLB-DISS	327.5 328.0 BLB-DISS	PO	30		322	323	27628	0.037	0.033	0.066	2080	2500	
																					328.0 328.0 MASS	328.0 328.0 MASS	328.0 328.0 MASS	PO	95		323	324	27629	0.026	0.072	0.065	722	1770	
																					328.1 328.0 DISS	328.1 328.0 DISS	328.1 328.0 DISS	PY	3		330	330.17	27630	0.0025	0.0025	0.0025	0.5	3	
																					328.1 328.0 DISS	328.1 328.0 DISS	328.1 328.0 DISS	MT	7		330.17	331.92	27631	0.044	0.032	0.021	1360	4200	

Start Date: 28/Jan/08

Hole: HN-08-47

Southampton Ventures Inc.

Nothing: 6648867

Depth: 363 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903287

Elevation: 254.783 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.5

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
								208.9	209.5	Moderate	Pervasive	BT	along foliat on plane					331.92	332.09	M		328.1	329.0	DISS	CP	10		325	325	27632	0.023	0.09	0.04	1325	2239
																		332.09	333	CG	anthrophyllite	328.1	329.0	DISS	PO	25		326	327	27633	0.051	0.182	0.058	1800	3920
																		333	333.25	M		329.0	329.8	BLB	PY	2	only with large blebs of Po	327	327.5	27634	0.036	0.234	0.112	2280	6140
								212	212.3	Moderate	Fract-Cont	SI						333.25	336.5	CG	anthrophyllite						327.5	328.2	27635	0.108	0.574	0.057	5730	5210	
								213	215.95	Moderate	Fract-Cont	SI						336.5	337.24	MG/CG	amphibole and pyroxenes, om wide metased intervals"	329.0	329.8	BLB	CP	5	only with large blebs of Po	328.2	329.0	27636	0.087	0.163	0.028	1750	8340
								215.95	236.33	Moderate	Fract-Cont	CH	moderate to strong at fractures throughout unit									329.0	329.8	BLB	PO	40		329.0	329.5	27637	0.161	0.3225	0.0145	2860	2220
																		337.24	337.5	M		329.8	330	BLB	PY	2	in blebs with Po	329.5	330.1	27638	0.024	0.494	0.077	4580	8720
																		337.5	339.8	MG/CG		329.8	330	BLB	CP	5	in blebs with Po	330.1	330.7	27639	0.062	0.249	0.051	5210	16900
																		338.8	339.85	M		329.8	330	BLB	CP	5	in blebs with Po	330.7	331.2	27640	0.514	0.318	0.165	4560	31000
								215.95	237.05	Strong	Fract-Cont	SI						339.8	339.85	M		329.8	330	BLB	CP	5	in blebs with Po	331.2	331.9	27641	0.035	0.211	0.202	1700	1940
								215.95	219.45	Weak	Patchy	SI	stronger at fractures					339.85	340.2	FG/MG		329.8	330	BLB	PO	40		333.2	333	27644	0.049	0.285	0.028	3300	12800
								215.95	219.98	Strong	Fract-Cont	CH	at fractures contact with QGAB					340.2	340.8	B	metased where not semi-massive sulphides	329.8	330	BLB	PO	40		333	333.7	27645	0.032	0.832	0.295	9270	3770
																						330	330.1	MASS	PY	5		333.7	334.5	27646	0.045	0.272	0.138	2730	15300
																						330	330.1	MASS	PO	60		334.5	335.4	27647	0.186	0.344	0.327	1890	14800
																						330	330.1	MASS	PO	60		335.4	336.2	27648	0.047	0.439	0.128	5440	5970
								219.45	227.8	Moderate	Pervasive	SI	silicified!					340.8	342.15	MG/CG		330.1	330.7	DISS	MT	5		336.2	336.7	27649	0.033	0.304	0.045	3770	14900
								227.8	232	Weak	Patchy	CH						342.15	354.1	CG	muscovite bt, ord, grt	330.1	330.7	DISS	PY	10		336.7	337.5	27650	0.103	0.143	0.048	2300	8910
								227.8	232	Weak	Patchy	BT										330.1	330.7	BLB-DISS	CP	20		337.5	337.5	27651	0.021	0.147	0.158	1540	7180
								227.8	233.3	Weak	Patchy	SI										330.1	330.7	BLB-DISS	PO	35		337.5	338.4	27652	0.057	0.101	0.287	1540	13400
																						330.7	331.9	DISS	MT	7		338.4	339	27653	0.561	0.381	0.046	6660	2520
								233.3	235.33	Moderate	Pervasive	SI						354.1	357.05	FG/MG		330.7	331.9	DISS	PY	2		339	339.5	27654	0.143	0.347	0.272	3700	7540
								237.05	245.25	Moderate	Fract-Cont	SI										330.7	331.9	DISS	CP	10		339.5	340.2	27655	0.1685	0.109	0.0375	4660	4550
								237.35	237.4	Moderate	Fract-Cont	CH										330.7	331.9	BLB-DISS	PO	25	mostly DISS	340.2	340.5	27656	0.095	0.732	0.045	7230	2390
								237.4	245.25	Weak	Fract-Cont	CH										331.9	331.9	BLB-DISS	PO	25		340.8	341.5	27657	0.093	0.411	0.045	3810	5540
								240.35	240.55	Strong	Patchy	SI	large patch of Si shearing flow around patch with associated mineralization									331.9	332.0	MASS	CP	7		341.5	342.1	27658	0.127	0.26	0.151	2997	4287.5
																						332.0	333	DISS	MT	7		342.1	343	27659	0.0025	0.0025	0.0025	64	125
																						332.0	332.3	ST	CP	15				27660	0.0025	0.0025	0.0025	0.5	3
																						332.0	332.3	ST	PO	30		343	344	27661	0.0025	0.0025	0.0025	21	10
																						332.3	333	DISS	PY	2		344	345	27662	0.0025	0.0025	0.0025	53	69
																						332.3	333	DISS	CP	10		345	346	27663	0.0025	0.0025	0.0025	28	96
																						332.3	333	BLB-DISS	PO	27		346	347	27664	0.0025	0.0025	0.0025	19	81
																						333	333.2	MASS	PO	97		347	348	27665	0.0025	0.0025	0.0025	8	11
																						333	333.2	DISS	PY	5		348	349	27666	0.0025	0.0025	0.0025	9	88
																						333	333.2	DISS	PY	5		349	350	27667	0.0025	0.0025	0.0025	10	146

Start Date: 28/Jan/08

Hole: HN-08-47

Southampton Ventures Inc.

Northing: 6648867

Depth: 363 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303287

Elevation: 254.783 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.5

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
								245.25	259.05	Weak	Pervasive	SI	whole unit silicified, varying levels of silicification									333.2	333.7	BLB-DISS	CP	10	mostly DISS, some in BLEBs with PO	351	352	27668	0.0025	0.0025	0.0025	10	129		
								245.25	259.05	Weak	Fract-Cont	SI											333.2	333.7	BLB	PO	30		355	355	27673	0.0025	0.0025	0.0025	12	40	
								247	247.3	Strong	Fract-Cont	SI											333.7	335.4	DISS	MT	7		356	357	27674	0.0025	0.0025	0.0025	11	50	
								247	247.3	Strong	Fract-Cont	CH											333.7	335.4	BLB-DISS	CP	15		358	359	27676	0.0025	0.0025	0.0025	4	1	
								247	247.3	Strong	Fract-Cont	CH											333.7	335.4	BLB	PO	15		359	360	27677	0.0025	0.0025	0.0025	13	622	
								247	247.3	Weak	Fract-Cont	BT											335.4	338.5	DISS	MT	2		360	361	27678	0.0025	0.0025	0.0025	10	886	
								250	250.8	Strong	Patchy	SI											335.4	338.5	DISS	CP	5		361	362	27679	0.0025	0.0025	0.0025	4	13	
								251.35	251.6	Strong	Fract-Cont	SI	patchy infilling of fracture, see structure for angle										335.4	338.5	ST	PY	10				27680	0.0025	0.0025	0.0025	0.5	3	
																							335.4	338.5	ST	PO	20		362	363	27681	0.0025	0.0025	0.0025	5	90	
																							336.5	337.2	DISS	MT	2		350	351	27682	0.0025	0.0025	0.0025	8	26	
																							336.5	337.2	DISS	PY	5										
																							336.5	337.2	DISS	CP	5										
																							336.5	337.2	BLB-DISS	PO	20	2 small stringers									
								259.05	267.35	Moderate	Patchy	CH											337.2	337.5	DISS	PY	2										
								259.05	267.35	Weak	Patchy	SI											337.5	338.4	DISS	MT	3										
								266.2	266.3	Moderate	Fract-Cont	SI											337.5	338.4	BLB-DISS	CP	5										
								267	267.15	Moderate	Fract-Cont	CH											337.5	338.4	BLB-DISS	PY	7										
								267.35	269.45	Moderate	Pervasive	SI											337.5	338.4	BLB-DISS	PO	10										
								269.45	270.9	Weak	Fract-Cont	CH											338.4	339.8	DISS	MT	3										
								269.45	270.9	Moderate	Fract-Cont	SI											338.4	339.8	ST	PY	3										
								270.9	292	Moderate	Pervasive	SI											338.4	339.8	ST	CP	10										
								275.1	275.25	Weak	Fract-Cont	CH											338.4	339.8	ST	PO	30										
								279.9	292	Moderate	Patchy	CH	alteration of large pyroxenes to chlorite										338.8	339.9	BLB	CP	3	small bleos									
																							338.8	339.9	BLB	PO	4	small bleos									
																							338.9	340.0	SMASS	CP	5										
																							338.9	340.0	SMASS	PY	7										
																							338.9	340.0	SMASS	PO	60										
								292	297.45	Weak	Fract-Cont	CH											340.0	340.2	BLB-DISS	PY	10										
								292	297.45	Moderate	Fract-Cont	SI											340.0	340.2	BLB-DISS	CP	10										
																							340.0	340.2	BLB-DISS	PO	15										

Start Date: 28/Jan/08

Hole: HN-08-47

Southampton Ventures Inc.

Nothing: 6648867

Depth: 363 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303287

Elevation: 254.783 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.5

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
								292	296.9	Moderate	Patchy	BT	pyroxenes altered to BT																											
								292	297.45	Weak	Pervasive	SI																												
								297.45	299.35	Moderate	Pervasive	SI	silicified unit																											
								297.45	299.35	Weak	Patchy	CH																												
								299.2	299.22	Strong	Fract-Cont	SI																												
								299.35	299.5	Moderate	Patchy	BT	along foliat on pyroxenes altered to BT near top contact																											
								299.35	299.9	Moderate	Fract-Cont	SI	along foliat on																											
								299.7	299.9	Moderate	Patchy	BT	along foliat on pyroxenes altered to BT near basal contact																											
								299.9	300.8	Weak	Fract-Cont	SI																												
								299.9	300.8	Moderate	Patchy	CH																												
								300.6	309.25	Strong	Fract-Cont	SI																												
								303.75	306.5	Strong	Pervasive	SI	strongly silicified zone																											
								309.7	315.35	Moderate	Pervasive	SI	slightly silicified																											
								311.25	311.45	Strong	Fract-Cont	BT																												
								311.75	311.83	Strong	Patchy	SI	large patch of SI																											

Start Date: 28/Jan/08

Hole: HN-08-47

Southampton Ventures Inc.

Nothing: 5648867

Depth: 363 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303287

Elevation: 254.783 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -59.5

Logged By: landry

Supervisor: [Signature]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays																
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm							
								330	330.01	Strong	Patchy	SI	"SI patch ony out 1/2 way into core, very mineralize d"																														
								330.17	331.92	Strong	Pervasive	M																															
								330.17	331.92	Weak	Pervasive	CH																															
								332.09	333	Strong	Pervasive	M																															
								332.09	332.65	Weak	Pervasive	CH																															
								332.65	333	Moderate	Patchy	A																															
								332.65	333	Strong	Patchy	CH																															
								333.25	335.5	Weak	Patchy	CH																															
								333.25	336.5	Moderate	Pervasive	A																															
								335.5	336.5	Weak	Patchy	SI																															
								336.5	337.24	Moderate	Pervasive	M																															
								336.5	337.24	Moderate	Patchy	CH																															
								337.5	336.8	Moderate	Patchy	A																															
								337.5	336.8	Moderate	Pervasive	M																															
								337.5	336.8	Moderate	Patchy	CH																															
								337.5	338.4	Moderate	Patchy	SI																															
								338.4	336.8	Weak	Patchy	SI																															
								338.8	339.95	Weak	Fract-Cont	CA																															
								339.95	340.2	Weak	Patchy	SI																															
								339.95	340.2	Weak	Patchy	CH																															
								340.2	340.8	Moderate	Patchy	CH																															
								340.8	342.15	Weak	Fract-Cont	SI																															
								340.8	342.15	Weak	Fract-Cont	CA																															
								340.8	342.15	Strong	Pervasive	M																															
								340.8	342.15	Weak	Patchy	CH																															
								342.15	354.1	Moderate	Fract-Cont	K	<1cm fractures throughout unit																														

Start Date: 28/Jan/08

Hole: HN-08-47

Southampton Ventures Inc.

Nothing: 5648867

Depth: 363 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303287

Elevation: 254.783m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -58.5

Logged By: Iandry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
								342.15	354.1	Moderate	Fract-Cont	SI	<1cm fractures throughout unit																											
								342.15	354.1	Moderate	Fract-Cont	CA	<1cm fractures throughout unit																											
								342.15	354.1	Weak	Patchy	BT	along foliat on																											
								342.15	354.1	Moderate	Patchy	CH	along foliat on																											
								354.1	354.7	Moderate	Fract-Cont	K	along foliat on																											
								354.7	357.05	Weak	Fract-Cont	CA																												
								354.7	357.05	Strong	Pervasive	M	in QTZ vein																											
								356.78	356.8	Weak	Fract-Cont	CH																												
								357.05	363	Weak	Patchy	SI	along foliat on																											
								357.05	363	Weak	Fract-Cont	SI																												
								357.05	363	Moderate	Fract-Cont	CA																												
								357.05	363	Moderate	Fract-Cont	K																												
								357.05	363	Moderate	Patchy	CH	along foliat on																											

Start Date: 28/Jan/08	Hole: HN-08-48	Southampton Ventures Inc.	Nothing: 6646729	Depth: 100 m
Completion Date: 30/Jan/08	Project: SV-HDN	<i>Diamond Core Log Sheet</i>	Easting: 303478	Elevation: 254.985m
Azimuth: 124	Property: Horden Lake		Projection: UTM NAD83 Zone 18N Hole Diameter: NQ	
Dip: -43.6	Logged By: Ian Dry		Supervisor: [REDACTED]	
Survey Method: Reflex Maxibor	Date: 25/04/2008	Storage Location: Horden Lake		

Depth		Rock Codes		Rock Description	Survey				Alteration					Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
97.16	100	MVOL		Mafic Volcanic	0	124	-43.6		40.33	41	Strong	Patchy	SI		31.5	40.08	55	FOL	24	31.5	M		31.5	40.08	BLB-DISS	PY	1		31.5	33	25448	0.016	0.038	0.007	454	1900
71.67	97.16	PSAM		Meta-Psammite	3	124.1	-44.2		56.5	56	Strong	Patchy	SI		43.2	43.9	10	FR	24	31.5	MG		31.5	40.08	BLB-DISS	CP	1.5		33	34	25448	0.012	0.0025	0.008	19	1250
71.12	71.67	MS		Massive sulphide	6	124.1	-44.5		74.5	78.5	Moderate	Patchy	CH		44	44.15	25	FR	31.5	40.08	MG		31.5	40.08	BLB-DISS	PO	5				0.013	0.043	20950	8880		
69.69	71.12	PSAM		Meta-Psammite	9	124	-44.8		96.3	96.8	Moderate	Pervasive	GOE	Red alteration of PY	69.69	71.12	80	FOL	40.08	40.33	FG		40.08	40.33	BLB-DISS	CP	1.5		34	35	25451	0.0025	0.0025	0.0025	9	518
69.49	69.69	MS		Massive sulphide	12	123.8	-45.4							7.87	97.16	70	FOL	40.33	58.84	M		40.08	40.33	BLB-DISS	PO	2		35	36	25452	0.006	0.0025	0.0025	8	55	
69.01	69.49	PSAM		Meta-Psammite	15	123.8	-45.3							79.88	79.98	35	VEIN	40.33	58.84	CG		42	43.5	BLB-DISS	PY	1		36	37	25453	0.013	0.033	0.061	154	2550	
68.81	69.01	MS		Massive sulphide	16	123.9	-45							80.28	80.56	50	VEIN	58.84	59.65	FG		42	43.5	BLB-DISS	CP	3		37	38	25454	0.02	0.0445	0.1355	144	2340	
60.72	68.81	PSAM		Meta-Psammite	21	123.9	-44.5							92.52	92.99	35	VEIN	59.65	60.72	M		56.75	56.84	BLB-DISS	PO	1.5		38	39	25455	0.107	0.184	0.477	239	2940	
59.65	60.72	GAB		Gabbro	24	123.8	-44							99.2	99.32	70	VEIN	59.65	60.72	CG		56.75	56.84	BLB-DISS	CP	2		39	40	25456	0.052	0.089	0.148	188	2340	
58.84	59.65	MD		Mafic Dyke	27	123.9	-43.4										60.72	68.81	MG		56.75	57.15	BLB-DISS	PO	7.5		40	41	25457	0.022	0.017	0.034	102	1080		
40.33	58.84	GAB		Gabbro	30	124	-43.2										68.81	69.01	M		56.75	57.15	BLB-DISS	CP	7.5		41	42	25458	0.0025	0.0025	0.015	116	536		
40.08	40.33	MD		Mafic Dyke	33	124	-43										69.01	69.49	MG		60.72	66.81	BLB-DISS	PY	1.5		42	43	25459	0.0025	0.0025	0.058	197	1030		
31.5	40.08	PSAM		Meta-Psammite	36	124	-43.2										69.49	69.69	M		60.72	66.81	BLB-DISS	PO	5				25460	0.0025	0.0025	0.0025	1	11		
24	31.5	GAB		Gabbro	39	124.1	-43.1										69.69	71.12	MG		68.81	69.01	MASS	CP	5		43	44	25461	0.0025	0.03	0.159	140	2070		
0	24	CAS		Casing	42	124.1	-43										71.12	71.67	M		68.81	69.01	MASS	PO	90		55	56	25462	0.012	0.038	0.055	100	190		
					45	124.1	-43											71.67	97.16	MG		69.01	69.49	BLB-DISS	PO	9		56	57	25463	0.014	0.059	0.051	609	1110	
					46	124.1	-42.9											97.16	100	FG		69.01	69.49	BLB-DISS	CP	6		57	58	25464	0.008	0.042	0.049	481	878	
					51	124.2	-42.9															69.49	69.69	MASS	CP	3		58	58.84	25465	0.008	0.052	0.044	656	1510	
					54	124.2	-42.8															69.49	69.69	MASS	PO	52		58.84	59.65	25466	0.009	0.013	0.03	110	206	
					57	124.2	-42.8															69.69	71.12	BLB-DISS	CP	3		59.65	61	25467	0.055	0.122	0.208	864	3500	
					60	124.2	-42.8															69.69	71.12	BLB-DISS	PO	8		61	62	25468	0.027	0.079	0.148	909	2680	
					63	124.2	-42.7															71.12	71.67	SMASS	CP	8		62	63	25469	0.095	0.041	0.052	1750	1310	
					66	124.2	-42.7															71.12	71.67	SMASS	PO	40		63	64	25470	0.5105	7.966	0.479	1300	1230	
					69	124.2	-42.7															71.67	76.8	BLB-DISS	PY	1.5		63	64	25471	0.093	0.118	0.101	1480	5620	
					72	124.3	-42.7															71.67	76.8	BLB-DISS	CP	3		64	65	25472	0.054	0.181	0.154	2000	4920	
					75	124.3	-42.7															71.67	76.8	BLB-DISS	PO	8		65	66	25473	0.105	0.101	0.135	1260	2680	
					78	124.3	-42.7															76.8	97.16	DISS	PY	1.5		66	67	25474	0.265	0.118	0.035	1520	7920	
					81	124.3	-42.7															78.8	97.16	DISS	PO	1.5		67	68	25475	0.028	0.046	0.038	712	2180	
					84	124.4	-42.7															97.16	100	DISS	MT	2		68	68.81	25476	0.012	0.031	0.0525	185	359	
					87	124.5	-42.6															68.81	69.69	25477			68.81	69.69	25477	0.341	0.446	0.359	5300	13600		
					93	124.5	-42.6															69.69	71.12	25478			71.12	71.67	25479	0.028	0.207	0.165	5600	5520		
																													25480	0.0025	0.0025	0.0025	1	7		
																						71.67	73	25481	0.0025	0.08	0.046	1620	7820							
																						73	74	25482	0.1145	0.224	0.1385	3110	9230							
																						74	75	25483	0.047	0.067	0.407	845	8650							

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
146.5	147	MD		Mafic Dyke	0	124	-69.5		17.6	21.8	Weak	Pervasive	CH		30.1	30.25	40	SHZ	17.6	21.8	M		51.55	53.8	DISS	MT		51.7	52.5	30368	0.035	0.079	0.18	216	2630
136.5	146.5	PEL		Metapelite	3	124	-69.7		21.8	23.15	Weak	Pervasive	CH		56.7	56.7	50	CT	17.6	20.8	MG		51.55	53.8	DISS	CP		52.5	53.25	30367	0.027	0.059	0.151	223	2210
133.45	136.5	PSAM		Meta-Psammitte	6	124.1	-69.5		23.15	30.1	Weak	Pervasive	CH		64.35	64.85	40	SCHS	20.8	21.1	FG		53.25	54	DISS	PO		53.25	54	30388	0.01	0.012	0.018	41	255
119.8	133.45	PEL		Metapelite	9	124.4	-69.3		30.1	31.05	Weak	Pervasive	CH		67.35	67.6	35	SCHS	21.1	21.8	CM		53.8	54	DISS	MT	1	54	55	30369	0.023	0.012	0.01	40	238
116.35	119.8	PSAM		Meta-Psammitte	12	124.9	-69		31.05	51.55	Weak	Pervasive	CH		67.6	68.4	30	SHZ	21.1	21.8	VFG		67.6	69.1	DISS	PY		67.6	69.1	30370	0.489	7.9845	0.4815	1600	1470
102	116.35	PEL		Metapelite	15	125.3	-68.9		51.55	53.8	Moderate	Patchy	SI		71.9	72.3	40	SHZ	21.8	23.15	M		69.7	64.1	DISS	CP	1	67.9	68.55	30371	0.013	0.006	0.0025	73	118
101.75	102	QV		Quartz Vein	16	125.2	-68.8		53.8	56.7	Strong	Patchy	SI		81.05	84.1	65	FOL	21.8	22.35	CG		69.1	69.65	DISS	PY	1	69.1	69.65	30372	0.0025	0.0025	0.0025	42	19
98.6	101.75	PEL		Metapelite	21	125.1	-68.9		53.8	56.7	Moderate	Pervasive	CH		84.1	87.65	50	FOL	22.35	23.15	MG/CG		69.7	64.1	DISS	PO	1	71	72	30373	0.01	0.011	0.0025	136	219
93.95	98.6	PSAM		Meta-Psammitte	24	125.2	-68.9		56.7	67.6	Weak	Pervasive	CH		88.4	89.95	50	FOL	23.15	30.1	M		73.45	73.9	PAT	PY	2	72	72.65	30374	0.0125	0.016	0.0025	132	150
99.95	93.95	MS		Massive Sulphide	27	125.2	-68.8		64.35	64.85	Moderate	Patchy	SI		93.95	94.4	30	STRI	23.15	30.1	CG		72.85	73.45	30375	0.008	0.007	0.0025	87	92					
88.4	89.95	PSAM		Meta-Psammitte	30	125.3	-68.9		67.6	69.1	Moderate	Pervasive	CH		93.95	96.6	45	FOL	29.2	30	POIK	large Px (2cm) with inclusions	73.45	74	30376	0.023	0.035	0.009	319	830					
57.65	88.4	QV		Quartz Vein	33	125.3	-68.8		69.1	69.7	Strong	Fract-Cont	SI		98.6	101.75	50	FOL	30.1	31.05	CG		73.45	73.9	PAT	PO	5	75	76	30378	0.019	0.009	0.009	49	172
84.1	87.65	MSED		Metasediment	36	125.3	-68.8		69.7	84.1	Moderate	Pervasive	CH		102	116.35	55	FOL	30.1	31.05	CG		73.45	73.9	PAT	PO	5	76	77	30379	0.019	0.013	0.0025	80	141
69.7	84.1	GAB		Gabbro	39	125.3	-68.9		71.9	72.3	Weak	Fract-Cont	SI		119.8	133.45	55	FOL	31.05	51.55	M		76	77	30379	0.016	0.013	0.0025	80	141					
69.1	69.7	QV		Quartz Vein	42	125.3	-68.9		73.45	73.9	Moderate	Patchy	SI		136.5	146.5	45	FOL	31.05	51.55	FG/MG		77	78	30380	0.0025	0.0025	0.0025	0.5	3					
67.6	69.1	GAB		Gabbro	45	125.2	-68.9		84.1	87.65	Weak	Patchy	CH		32.9	33.3		BC	32.9	33.3	BC		77	78	30381	0.02	0.016	0.005	161	260					
56.7	67.6	GAB		Gabbro	48	125.3	-68.9		87.65	88.4	Strong	Fract-Cont	SI		33.3	34.5		BC	33.3	34.5	BC		62	83	BLB	ILM		78	79	30382	0.013	0.007	0.0025	60	53
53.8	56.7	MGAB		Mafic Melagab	51	125.2	-68.8		88.4	89.95	Weak	Fract-Cont	E		43.4	44		BC	43.4	44	BC		79	80	30383	0.015	0.009	0.0025	50	88					
51.55	53.8	PSAM		Meta-Psammitte	54	125.2	-68.7		88.4	89.95	Weak	Fract-Cont	SI		50.8	51.55		CM	50.8	51.55	CM		80	81	30384	0.022	0.03	0.0025	262	267					
31.05	51.55	GAB		Gabbro	57	125.3	-68.7		93.4	93.95	Moderate	Patchy	CH		51.55	53.8		POBL	51.55	53.8	POBL	Ath	84.1	85	ST	CP	0.5	81	82	30385	0.169	0.179	0.047	362	2400
30.1	31.05	GAB		Gabbro	60	125.2	-68.7		93.95	98.6	Weak	Patchy	CH		51.55	53.8		FG/MG	51.55	53.8	FG/MG	Ath-Bt bearing mela-psammitte	82	83	30386	0.056	0.1065	0.0275	173	446					
23.15	30.1	MGAB		Mafic Melagab	63	125.3	-68.6		116.35	119.8	Moderate	Fract-Cont	CH		53.8	56.7		CG	53.8	56.7	CG		84	84	30387	0.044	0.063	0.007	335	237					
21.8	23.15	GAB		Gabbro	66	125.3	-68.6		119.8	133.45	Weak	Fract-Cont	SI		56.7	57.1		CG	56.7	57.1	CG		84.1	85	ST	PY	0.5	83	84	30388	0.052	0.063	0.035	370	3560
17.6	21.8	MD		Mafic Dyke	69	125.3	-68.6		120.8	120.95	Strong	Fract-Cont	SI	Qtz vein	56.7	57.1		FG/MG	56.7	57.1	FG/MG		84.75	85.6	30389	0.06	0.037	0.044	1170	1540					
0	17.6	CAS		Casing	72	125.3	-68.6		144	145	Moderate	Fract-Cont	SI	local Q.V. at 147.7	56.7	56		FG	56.7	56	FG		84.1	85	ST	PO	1	85.8	86.35	30391	0.317	0.189	0.32	1580	4900
					75	125.3	-68.5								56.7	57.1		VFG	56.7	57.1	VFG		86.35	87	30392	0.018	0.234	0.264	2870	7780					
					78	125.5	-68.5								67.6	68.1		CM	67.6	68.1	CM		87	87.65	30393	0.176	0.36	0.456	3620	13700					
					84	125.5	-68.5								68.4	66.1		M	68.4	66.1	M		87.65	88.4	30394	0.04	0.055	0.057	872	3700					
					87	125.4	-68.4								69.1	69.7		M	69.1	69.7	M		88.4	89	30395	0.059	0.189	0.041	2630	992					
					90	125.3	-68.4								69.7	81.05		M	69.7	81.05	M		89	89.5	30396	0.06	0.036	1.601	1000	18300					
					93	125.3	-68.4								69.7	77.3		MG/CG	69.7	77.3	MG/CG		89.5	89.95	30397	0.112	0.456	0.15	4010	49700					
					96	125.3	-68.4								72.8	74.8		POIK	72.8	74.8	POIK		89.95	90.45	30398	0.101	0.59	0.236	9200	17200					
					99	125.2	-68.2								77.3	84.1		MG/CG	77.3	84.1	MG/CG		90.45	90.95	30399	0.142	0.548	0.768	6360	35900					
					102	125.3	-68.1								77.3	79.1		MG	77.3	79.1	MG		86.6	87.4	BLB	PO	10	86.6	87.4	30400	0.11	0.145	0.058	21800	8150
					105	125.1	-68.2								87.4	87.5		SMASS	87.4	87.5	SMASS		90.95	91.5	30401	0.054	0.478	0.676	6360	16100					

Start Date 28/Jan/08

Hole: HN-08-49

Southampton Ventures Inc.

Nothing: 6646729

Depth 147 m

Completion Date 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303477

Elevation: 255 017m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.5

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
	106				125	-68												84.1	87.65	FG	grey	87.65	88.4	BLB	CP	2		91.5	92	30402	0.108	0.473	0.508	8950	21200					
	111				125	-67.9															melasidement,	87.65	88.4	BLB	PO	8		92	92.5	30403	0.096	0.422	0.63	5260	20700					
	114				125.1	-67.7															Bt and Chl	88.42	88.59	DISS	CP	1		92.5	93	30404	0.24	0.458	0.64	7260	23500					
	117				125	-67.6															locally"	88.42	88.59	MASS	PO	80		93	93.5	30405	0.152	0.544	1.022	6820	14300					
	120				125	-67.5																						93	94	30406	0.1736	0.3505	0.3035	5100	17600					
	123				125	-67.5															M							94	94.5	30407	0.083	0.246	0.674	3233.5	17469.5					
	126				125	-67.4															POBL	local Crd						94.5	95	30408	0.065	0.136	0.131	1880	5240					
	129				125.1	-67.2															FG							95	95.5	30409	0.075	0.126	0.165	1560	6830					
	132				125.1	-67.2															POBL	local Crd	89.95	90.75	DISS	MT	3													
	135				125.1	-67.1															FG/IMG	Grey	89.95	90.75	BLB	CP	3													
	141				125	-67															Psammite,	89.95	90.75	MASS	PO	90		95.5	96.15	30411	0.049	0.097	0.063	1280	4280					
																					local Bt, Chl"	90.87	92.35	BLB	PY	2		96.15	96.9	30412	0.035	0.085	0.044	1130	2430					
																					Bt-Chl	90.87	92.35	DISS	MT	2		96.9	98	30413	0.062	0.172	0.059	1460	7010					
																					metapelite,	90.87	92.35	BLB	CP	3		98	99	30414	0.024	0.064	0.165	869	3010					
																					minor Crd"	90.87	92.35	MASS	PO	85		99	100	30415	0.0025	0.011	0.005	280	810					
																					Crd	92.5	93.95	DISS	MT	1		100	101	30416	0.0025	0.0025	0.0025	14	51					
																					Crd-Ms-Bt schist	92.5	93.95	MASS	CP	7		101	101.7	30417	0.0025	0.0025	0.0025	10	9					
																					Bt-Chl-Crd schist	92.5	93.95	MASS	PO	80		101.7	102.4	30418	0.0025	0.0025	0.0025	9	11					
																					Crd	93.95	96.1	ST	PY	2		102.4	103	30419	0.00425	0.0055	0.0055	11	12					
																					Bt-Crd-Ms	93.95	96.6	DISS	CP	3														
																					schist, very																			
																					large Crd																			
																					(7-8mm)"																			
																					Ms-Crd schists	93.95	96.6	BLB-DISS	PO	7														
																					BC																			
																					Ms-Bt-Crd																			
																					schist, local																			
																					CG Crd"	96.6	100	DISS	PO			144	145	30428	0.0025	0.0025	0.0025	46	50					
																					grey Q-Fpar	96.6	100	DISS	CP															
																					Psammite																			
																					Crd, Grt after	107	108	DISS	PY															
																					125 6"	116.3	119.8	DISS	MT	1														
																					Ms-Crd schists	132	132.7	DISS	CP	1														
																					Bt-Grt-Crd-Ms	133.4	136.5	DISS	MT															
																					schist, minor Crd	144	146.5	DISS	MT	1														
																					FG																			
																					Grt, Crd."																			

Start Date: 28/Jan/08

Hole: HN-08-49

Southampton Ventures Inc.

Nothing: 6646729

Depth: 147 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803477

Elevation: 255 017 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -59.5

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
																		136.5	146.5	FG/IMG	"Bl-Ms schists; metapelite to metasediments; minor Chl"																		
																		146.5	147	FG/IMG																			
																		146.5	146.6	CM																			

Start Date: 28/Jan/08

Hole: HN-08-50

Southampton Ventures Inc.

Nothing: 6646680

Depth: 200 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903378

Elevation: 255.274m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70.9

Logged By: Iandry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
196.5	198.9	PEL		Metapelite	0	124	-70.9		15.65	38.55	Moderate	Fract-Cont	SI		19.9	21	60	FOL	15.85	22.4	CG		36	38.55	DISS	PY	trace	PY	49.48	50	28492	0.0025	0.0025	0.0025	50	48
196.9	196.5	LC		Lost Core	3	124	-71		15.65	38.55	Moderate	Pervasive	SI		21.8	21.9	33	FR	22.4	38.55	MG/CG		36	38.55	DISS	CP	0.5		50	51	28498	0.0025	0.0025	0.0025	37	37
191.7	196.3	QTZE		Quartzite	6	124	-71.1		15.65	38.55	Moderate	Pervasive	CH	moderate	28.8	28.9	32	FR	38.55	40.47	CG		36	38.55	DISS	PO	0.5		52.5	53.5	28494	0.0025	0.0025	0.0025	91	188
187.4	190.5	PEL		Metapelite	9	124	-71.1							to weak	34.6	34.7	40	FR	40.47	49.36	CG		38.55	40.47	DISS	PY	0.05		36	37	28666	0.0025	0.0025	0.0025	67	257
187.18	187.4	QV		Quartz Vein	12	124.5	-71	30	37	Moderate	Patchy	SI	rest of	36.8	36.87	42	FR	53.7	57.83	CG		41.4	41.55	DISS	PO	0.05	PO near	37	38	28667	0.0025	0.0025	0.0025	92	187	
190.5	191.7	MD		Mafic Dyke	15	124	-70.8						unit has	39.75	39.9	29	VEIN	62.07	64.7	CG							quartz vein	39	40	28668	0.0025	0.00475	0.0025	32	62	
184.53	187.18	PEL		Metapelite	16	124	-70.9						weak	40.47	49.36	40	FOL	64.7	66.15	FG/IMG							(in	40	41	28669	0.005	0.032	0.0025	51	129	
179.37	179.75	MS		Massive Sulphide	21	124.9	-70.9						patchy	41.4	41.55	25	VEIN	66.15	69	MG/CG							structure			28670	0.5055	8.051	0.48	1560	1640	
178.98	179.37	MSED		Metasediment	24	125.1	-70.9						alteration	53.7	57.83	38	FOL	70.35	72	MG							tab)	41	42	28671	0.0025	0.015	0.0025	95	159	
178.15	178.98	MS		Massive Sulphide	27	125.2	-70.9		38.55	40.47	Strong	Fract-Cont	SI		56.7	56.8	35	FR	72	73.08	CG		54	55	DISS	CP	0.05	tiny amount	42	43	28672	0.0025	0.014	0.0025	88	164
162	184.53	MVOL		Mafic Volcanic	30	125.3	-70.8		38.55	40.47	Moderate	Pervasive	SI		62.07	66.15	50	FOL	73.08	74	MG						of CP	54	55	28673	0.0025	0.0025	0.0025	37	106	
179.75	182	MSED		Metasediment	33	125.5	-70.8		38.55	40.47	Moderate	Pervasive	CH		65.9	66.05	20	FR	74	79.3	MG/CG						visible	65	66	28674	0.0025	0.0025	0.0025	41	35	
172.8	176.15	MSED		Metasediment	36	125.5	-70.8		40.47	49.36	Moderate	Patchy	SI		66.8	67.1	45	FOL	79.3	80.05	CG						along	84	85	28675	0.0025	0.014	0.0025	37	150	
170.12	172.8	GAB		Gabbro	39	125.6	-70.8		40.47	49.36	Moderate	Pervasive	SI		73.05	73.1	50	FR	80.05	83	MG/CG						foliation	85	86	28676	0.0025	0.0025	0.0025	29	112	
168.25	170.12	MD		Mafic Dyke	42	125.8	-70.8		40.47	49.36	Strong	Fract-Cont	SI		82.3	82.4	40	FR	83	84.17	CG		65	66.15	DISS	PO	0.01	trace	86	87	28677	0.0025	0.0025	0.0025	28	76
156.4	168.25	GAB		Gabbro	45	126	-70.8		40.47	49.36	Weak	Pervasive	CH		97.75	98	15	FR	84.17	89.63	MG/CG		63.9	69.3	DISS	CP	0.5	in super	87	88	28678	0.0025	0.0025	0.0025	36	162
139.85	156.4	MGAB		Mafic Metagab	48	126	-70.7		53.7	57.83	Moderate	Pervasive	SI		98	99	45	FOL	89.63	91	CG						silicified	88	89	28679	0.0025	0.0025	0.0025	41	95	
133.3	139.85	PSAM		Meta-Psammite	51	126	-70.6		53.7	57.83	Moderate	Patchy	SI		102.02	103.44	50	FOL	91	93.05	FG/IMG						interval			28680	0.0025	0.0025	0.0025	3	5	
127.8	139.3	MGAB		Mafic Metagab	54	126.2	-70.7		53.7	57.83	Strong	Fract-Cont	SI		104.6	115.55	55	FOL	93.05	95.4	FG/IMG		63.9	89.3	DISS	PY	0.5	in super	89	89.63	28681	0.0025	0.0025	0.0025	44	104
125.6	127.8	PSAM		Meta-Psammite	57	126.3	-70.6		53.7	57.83	Moderate	Pervasive	CH		115.55	117.2	50	FOL	95.4	96.95	MG/CG						interval	92	93	28682	0.0025	0.0025	0.0025	140	7	
119	125.6	MGAB		Mafic Metagab	60	126.3	-70.5		62.07	69	Moderate	Pervasive	SI		118	118.6	45	FOL	96.95	98	FG/IMG						interval	93	94	28683	0.0025	0.0025	0.0025	59	3	
117.2	119	PSAM		Meta-Psammite	63	126.3	-70.5		62.07	66.7	Moderate	Patchy	BT		119	125.6	40	FOL	98	99	CG		93.05	99	DISS	CP		trace	94	95	28684	0.0025	0.0025	0.0025	27	52
99	117.2	GAB		Gabbro	66	126.2	-70.4		62.07	66.15	Moderate	Fract-Cont	SI		124.54	124.64	30	FR	99	100.65	CG		93.05	99	DISS	PY	0.5		95	96	28685	0.0025	0.0025	0.0025	37	53
93.05	99	MGAB		Mafic Metagab	69	126.2	-70.5		62.07	66.15	Moderate	Pervasive	CH		125.8	125.7	17	FR	100.65	102	FG/IMG		99	100.6	DISS	CP	0.5		96	97	28686	0.0025	0.0025	0.0025	79	453
89.63	93.05	GAB		Gabbro	72	126.2	-70.4		69	70.35	Moderate	Pervasive	CH		127.8	132.3	50	FOL	102	108.75	MG/CG	CG pyroxenes	104	105	DISS	CP	0.5		97	98	28687	0.0025	0.0025	0.0025	57	175
69	89.63	MGAB		Mafic Metagab	75	126.2	-70.4		69	69.63	Strong	Pervasive	SI		129.53	129.68	25	FR	108.75	111.5	FG	pyroxenes MG	109	111.5	DISS	CP	1	along	98	99	28688	0.0025	0.0025	0.0025	56	189
62.07	69	GAB		Gabbro	78	126.1	-70.4		70.35	69.63	Strong	Fract-Cont	SI		134.46	134.48	70	VEIN				in FG matrix						foliation	98	100	28689	0.0025	0.0025	0.0025	47	89
57.83	62.07	LC		Lost Core	81	126.1	-70.3		70.35	69.63	Weak	Pervasive	CH		138.85	139.85	46	CT	111.5	115	MG/CG	CG pyroxenes	109	111.5	ST	PO	3	along			28690	0.4995	7.9855	0.4825	1760	1750
53.7	57.83	GAB		Gabbro	84	125.9	-70.3		72	76.3	Strong	Patchy	SI		144.1	144.18	44	FR	115	117.2	FG						foliation	100	101	28691	0.0025	0.0025	0.0025	60	257	
49.36	53.7	LC		Lost Core	87	125.7	-70.3		72.6	73.1	Weak	Patchy	BT	pyroxenes altered to	147.83	147.88	43	FR	117.2	119	MG	σ: (35%) qtz (43%), fd(20%)	109	111.5	ST	CP	2	along	101	102	28692	0.0025	0.0025	0.0025	36	8
40.47	49.36	GAB		Gabbro	90	125.6	-70.2							bt	148.34	148.43	35	FR									foliation	102	103	28693	0.0025	0.0025	0.012	46	15	
38.55	40.47	MGAB		Mafic Metagab	93	125.6	-70								149.3	149.4	20	SHZ	119	125.6	CG	σ pyroxenes	117.2	119	FRA	PY	1		103	104	28694	0.0025	0.0025	0.021	56	23
15.65	38.55	GAB		Gabbro	96	125.7	-69.9		76.3	77.15	Strong	Fract-Cont	CH		152.24	152.27	80	SHZ				large often	117.2	119	FRA	CP	1		104	105	28695	0.0025	0.0025	0.0025	56	260
0	15.65	CAS		Casing	99	125.7	-69.6		78.3	77.15	Moderate	Fract-Cont	BT		159.5	159.8	65	FOL				altered and	117.2	119	DISS	PY	1		105	108	28696	0.0025	0.0025	0.0025	71	23
					102	125.6	-69.6		77.15	79.2	Moderate	Patchy	CH		165	168.25	40	FOL				stretched into	117.2	119	DISS	CP	1		106	107	28697	0.0025	0.0025	0.0025	74	36
					105	125.6	-69.6								169.7	169.75	50	FR				foliation*	125.6	127.8	DISS	CP	3.5		107	108	28698	0.0025	0.0025	0.0025	72	19

Start Date: 28/Jan/08 Hole: HN-08-50 Nothing: 5646680 Depth: 200 m
 Completion Date: 30/Jan/08 Project: SV-HDN Diamond Core Log Sheet Easting: 903378 Elevation: 255.274 m
 Azimuth: 124 Property: Horden Lake Projection: UTM NAD83 Zone 18N Hole Diameter: NQ
 Dip: -70.9 Logged By: Iandry Supervisor: [Signature]
 Survey Method: Reflex Maxibor Date: 25/04/2008 Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey					Alteration				Structure				Texture				Mineralization					Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
108	125.6	-69.6			77.15	78	Weak	Pervasive	BT	some		altered to	pyroxenes	174.1	174.2	25	FR	125.6	127.8	MG	ca (25%) Qtz (4%), feldspar(??), mineralization (7%)	125.6	127.8	DISS	PY	2.5		108	109	28699	0.0025	0.0025	0.0025	69	10
111	125.3	-69.6												179.75	179.75	50	CT					125.6	127.8	DISS	PO	1		109	110	28701	0.0025	0.0025	0.0025	88	409
114	126	-69.5												179.75	182	40	FOL					127.8	138.3	DISS	CP	1	sometimes	109	110	28701	0.0025	0.0025	0.0025	88	409
117	126.1	-69.2												182.84	182.9	50	VEIN										FRAC	110	111	28702	0.0025	0.0025	0.019	78	1190
120	126.1	-69.4			78	79.2	Moderate	Pervasive	BT					182.5	184.53	35	FOL										associated	111	112	28703	0.0025	0.0025	0.0025	55	366
123	126.3	-69.2			79.2	80	Strong	Patchy	SI					187.18	187.4	25	VEIN	127.8	130	CG		127.8	138.3	DISS	PY	1	sometimes	112	113	28704	0.0025	0.0025	0.0025	69	18
125	126.3	-69.1			83.9	89.3	Strong	Pervasive	SI	SUPER				187.4	190.5	60	FOL	130	138.3	POIK	CG MGAB with poikilitic						FRAC	113	114	28705	0.041	0.159	0.151	1110	3940
129	126.5	-69.2								SILICIFIED				196.5	196.7	40	FR										associated	114	115	28706	0.0025	0.0025	0.0025	108	134
132	126.5	-69.2			89.3	89.63	Weak	Patchy	BT					197	198.9	52	FOL					127.8	138.3	DISS	PO	1	sometimes	115	115	28707	0.0025	0.024	0.0025	164	197
135	126.4	-69.2			89.63	92	Strong	Patchy	SI																	FRAC	116	117	28708	0.0025	0.0025	0.0025	126	134	
136	126.4	-69.3			89.63	93.05	Strong	Pervasive	SI									138.3	139.85	CG						associated	117	118	28709	0.0025	0.0025	0.0025	80	889	
141	126.4	-69.4			89.63	93.05	Weak	Pervasive	CH									138.85	145.88	POIK	CG mgab with poikilitic	138.3	139.8	DISS	CP	1				28710	0.0025	0.0025	0.0025	2	3
144	126.6	-69.3			91	93.05	Moderate	Fract-Cont	SI													139.8	139.8	DISS	PY	2		118	119	28711	0.0025	0.0025	0.0025	58	559
147	126.7	-69.3			92	93.05	Strong	Fract-Cont	CH													139.8	142.9	DISS	PY	2		119	120	28712	0.0025	0.0025	0.0025	124	123
150	126.8	-69.3			92	93.05	Strong	Fract-Cont	BT													139.8	142.9	DISS	CP	5		120	121	28713	0.0025	0.0025	0.0025	124	104
153	127	-69.2			93.05	94	Strong	Fract-Cont	CH													139.8	142.9	DISS	PO	4		121	122	28714	0.0025	0.0025	0.0025	104	233
156	127.1	-69.2			93.05	99	Moderate	Pervasive	CH													142.9	143.1	SMASS	CP	8		122	123	28715	0.0025	0.0025	0.0025	178	743
159	127.1	-69			93.5	93.9	Moderate	Pervasive	BT													142.9	143.1	SMASS	PY	15		123	124	28716	0.026	0.028	0.0025	227	451
162	127.1	-69.2			95.65	96	Strong	Pervasive	SI													142.9	143.1	SMASS	PO	35		124	125	28717	0.026	0.018	0.019	156	117
165	127.2	-69			95.65	96	Moderate	Pervasive	K									145.88	151.63	CG	mainly CG with local zones of POIK pyroxenes	143.1	148.5	BLB-DISS	PY	4		125	126	28718	0.021	0.013	0.0025	110	123
168	127.1	-69.3			96	96.5	Moderate	Patchy	SI													143.1	148.5	BLB-DISS	CP	7		126	127	28719	0.011	0.01	0.0025	51	810
171	127.2	-69.2			96.5	96.75	Strong	Pervasive	K													143.1	148.5	BLB-DISS	PO	15		127	128	28720	0.495	7.936	0.4785	1790	1680
174	127.3	-69			96.5	96.75	Strong	Pervasive	SI									151.63	156.4	CG	CG with no incidence of POIK textures	147.7	148	FRA	PENT	3		127	128	28721	0.012	0.011	0.0025	71	359
177	127.3	-68.9			96.75	99	Moderate	Pervasive	SI													148.5	152.2	BLB-DISS	PY	3		128	129	28722	0.026	0.026	0.0025	130	167
180	127.3	-68.8			96.75	99	Moderate	Fract-Cont	SI													148.5	152.2	BLB-DISS	CP	4		129	130	28723	0.0025	0.0025	0.0025	126	132
186	127.2	-68.6			99	100.55	Weak	Patchy	SI									156.4	159	MG/CG		148.5	152.2	BLB-DISS	PO	8		130	131	28724	0.0025	0.0025	0.0025	171	359
					99	103.75	Moderate	Pervasive	CH									159	166.25	CG		152.2	156.4	BLB-DISS	PY	9		131	132	28725	0.0025	0.0025	0.0025	193	571
					100.55	102	Strong	Pervasive	SI									168.25	168.3	CM		152.2	156.4	BLB-DISS	PO	15		132	133	28726	0.0025	0.0025	0.0025	107	301
					103	105	Weak	Fract-Cont	SI									168.3	168.56	VFG		152.2	156.4	DISS	CP	9		133	134	28727	0.0025	0.0025	0.0025	75	201
					103.75	117.2	Strong	Pervasive	CH									168.55	169.75	FG	MGAB composition	156.4	167.7	DISS	MT	1		134	135	28728	0.0025	0.0025	0.0025	42	125
					103.75	105	Strong	Pervasive	BT													156.4	167.7	BLB-DISS	PY	3		135	135	28729	0.0025	0.0025	0.0025	52	297
					105	109.75	Moderate	Fract-Cont	SI	fractures aligned with foliation								169.75	170.05	VFG		156.4	167.7	BLB-DISS	CP	2		136	137	28730	0.0025	0.0025	0.0025	4	5
																		170.05	170.12	CG		156.4	167.7	BLB-DISS	PO	2		136	137	28731	0.0025	0.0025	0.0025	36	176
																		170.12	170.42	CG		161.7	162	FRA	PY	5		137	138	28732	0.0025	0.0025	0.0025	65	196
																						167.7	168.2	DISS	MT	2		138	139	28733	0.0025	0.0025	0.0025	343	480
																						167.7	168.2	ST	CP	3		139	140	28734	0.0025	0.0025	0.0025	486	644

Start Date: 28/Jan/08 Hole: HN-08-50
 Completed Date: 30/Jan/08 Project: SV-HDN
 Azimuth: 124 Property: Horden Lake
 Dip: -70.9 Logged By: landry
 Survey Method: Reflex Maxibor Date: 25/04/2008

Southampton Ventures Inc.
 Diamond Core Log Sheet

Nothing: 5646680 Depth: 200 m
 Easting: 303378 Elevation: 255.274m
 Projection: UTM NAD83 Zone 18N Hole Diameter: NQ
 Supervisor: [REDACTED]

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
								130	133	Moderate	Patchy	BT	moderate gradually changing to weak					179.37	179.75	FG/IG	MVOL anc altered seeds where not	178.1 178.9 178.9 179.3	SMASS SMASS	CP PO	20 40			170.5 171 171 171.8	171 28772	28771 28772	0.0025 0.0025	0.273 0.047	0.218 0.0025	2810 716	5890 670
								138.3	139.85	Moderate	Pervasive	SI									178.9 179.3	BLB-DISS	CP	10			172.3 173	28774	28774	0.111	0.017	0.0025	522	871	
								138.3	139.85	Strong	Pervasive	CH	very strong					178.75	182	MG/CG	ord, tz, ord;	179.3 179.4	SMASS	PY	30			174 175	28776	28776	0.06	0.032	0.157	546	9200
								138.3	139.85	Weak	Patchy	BT									179.3 179.4	SMASS	CP	15			173 174	28775	28775	0.016	0.088	0.017	1440	4440	
								139.85	155.4	Moderate	Fract-Cont	SI					182	182.84	VFG		179.3 179.4	SMASS	PO	40			176 177	28778	28778	0.082	0.126	0.322	2030	14750	
								139.85	148.35	Strong	Pervasive	SI					182.34	182.9	M	quartz vein	179.4 179.5	MASS	CP	10			177 177.5	28779	28779	0.069	0.1	0.321	2140	36800	
								139.85	155.4	Moderate	Pervasive	CH					182.9	184.53	FG/IG		179.4 179.5	MASS	PO	85			177.5 178	28780	28780	0.025	0.0025	0.0025	21	116	
								143	150	Weak	Fract-Cont	K					184.53	185.05	CG	extremely CH	179.5 179.7	SMASS	CP	10			177.5 178.1	28781	28781	0.0915	0.2995	0.932	1950	34800	
								149.62	151.85	Strong	Pervasive	SI								altered	179.5 179.7	SMASS	PY	40			178.1 179	28782	28782	0.06	0.539	0.461	5750	22100	
								151.85	156.4	Moderate	Pervasive	SI					185.05	187.18	MG	ord-mc-bt-schist	179.5 179.7	SMASS	PO	30			179 179.8	28783	28783	0.096	0.381	0.334	3330	26700	
								155.4	168.25	Moderate	Fract-Cont	K								ord, bt, qtz, mc	179.7 182	DISS	PY	5	some		179.8 180.5	28784	28784	0.008	0.041	0.033	271	3510	
								155.4	157.45	Weak	Pervasive	CH					187.18	187.4	M	massive quartz							180.5 181	28785	28785	0.0025	0.043	0.025	230	3170	
								157.45	158.25	Strong	Pervasive	CH								with PY							181 182	28786	28786	0.0025	0.0025	0.018	96	1580	
								158.25	158.55	Moderate	Pervasive	CH								mineralization							182 182.9	28787	28787	0.0025	0.0025	0.0025	41	121	
								158.55	158.85	Strong	Pervasive	A					187.4	190.3	MG/CG	MG with CG ord	179.7 182	DISS	CP	3	some		182.9 184	28788	28788	0.0025	0.0025	0.0025	41	180	
								158.55	158.85	Strong	Pervasive	CH					190.3	190.5	FG	FG due to CH							aligned	184 185	28789	28789	0.0025	0.0025	0.0025	36	398
								158.85	161.6	Weak	Pervasive	CH								alteration						along	28790	28790	0.5015	7.8785	0.4805	1610	1800		
								158.85	159	Moderate	Pervasive	BT					190.5	191.7	VFG	Extremely						foliation	185 186	28791	28791	0.0025	0.0025	0.0025	12	19	
								161.6	161.75	Strong	Pervasive	CH								silicified mafic	181.2 182	DISS	MT	2			186 187	28792	28792	0.0025	0.0025	0.0025	8	7	
								161.75	162.3	Weak	Pervasive	CH								dyke	182 184.5	DISS	MT	5			187 187.5	28793	28793	0.0025	0.0025	0.0025	22	202	
								162.3	162.55	Strong	Pervasive	CH	fine grained CH				191.7	186.3	FG		184 184.5	FRA	PY	3			187.5 188	28794	28794	0.0025	0.0025	0.0025	7	32	
																	193.15	196.3	BLO	cm sized flakes	184.5 185.0	DISS	PY	5			188 189	28795	28795	0.0025	0.0025	0.0025	9	100	
								162.55	164.45	Weak	Pervasive	SI								up to 20cm	184.5 185.0	ST	MT	20			189 190	28796	28796	0.0025	0.0025	0.0025	11	35	
								162.55	168.25	Moderate	Pervasive	CH	weak to moderate							long blocks of core	185.0 187.1	DISS	PY	0.05	trace		190 190.5	28797	28797	0.0025	0.0025	0.0025	34	169	
																				cm sized flakes	187.1 187.4	FRA	PY	2			190.5 191	28798	28798	0.0025	0.0025	0.0025	97	119	
								163.6	168.25	Weak	Pervasive	M					196.5	186.7	BLO	cm sized flakes	187.4 190.5	FRA	PY	1			191 192	28799	28799	0.0025	0.0025	0.0025	108	160	
								163.6	163.9	Strong	Pervasive	A								up to 20cm	190.5 191.7	DISS	PY	0.05	trace		28800	28800	0.103	0.141	0.052	22000	8830		
								164.45	168.25	Strong	Pervasive	SI								long blocks of core							192 193	29801	29801	0.0025	0.0025	0.0025	146	268	
								168.25	170.12	Weak	Fract-Cont	CH								core							193 194	28802	28802	0.0025	0.0025	0.0025	96	195	
								168.25	170.12	Weak	Fract-Cont	K					196.5	196.9	MG/CG	ord-mc-schist;	194 195	29803	29803	0.0025			194 195	29803	29803	0.0025	0.0025	0.0025	80	159	
								168.25	170.12	Weak	Fract-Cont	SI								CG ord							195 196	28804	28804	0.0025	0.0025	0.0025	96	134	
								170.12	172.4	Weak	Pervasive	CH					198.15	198.9	BLO	blocks up to 12cm							196 197	29805	29805	0.0025	0.0025	0.0025	74	194	

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
					108	124.6	-60.3																					166	167	26148	0.0065	0.0486	0.009	196	382	
					111	124.7	-60.3																					177	178	26149	0.018	0.012	0.042	47	207	
					114	124.7	-60.2																262.52-262.55m								0.139	0.06	22450	9160		
					117	124.7	-60.3																					178	179	26151	0.017	0.005	0.049	67	141	
					120	124.8	-60.3																					179	180	26152	0.0025	0.0025	0.0025	63	156	
					123	124.9	-60.3								266.5	269	BLB-DISS	PO			1								180	181	26153	0.0025	0.0025	0.0025	33	102
					126	125.1	-60.1								266.5	269	BLB-DISS	PO											181	182	26154	0.0025	0.0025	0.0025	28	139
					129	125.2	-60.1								266.5	269	BLB-DISS	CP											182	183	26155	0.0025	0.0025	0.0025	36	98
					132	125.3	-60.1								274	275	BLB-DISS	CP									1	also as	183	184	26156	0.0025	0.0025	0.0025	60	177
					135	125.4	-60.1																					184	185	26157	0.0025	0.0025	0.0025	52	235	
					136	125.5	-60																				2	also as	185	186	26158	0.0025	0.0025	0.0025	68	107
					141	125.7	-60.1																					186	187	26159	0.0025	0.0025	0.0025	85	110	
					144	125.9	-60.1																									0.0025	0.0025	0.0025	0.5	3
					147	126	-60.3																									0.0025	0.0025	0.0025	66	156
					150	126.1	-60.2																									0.0025	0.0025	0.0025	75	16
					153	126.3	-60.1																									0.0025	0.0025	0.0025	59	31
					156	126.4	-60																									0.0025	0.0025	0.0025	67	152
					159	126.6	-60.1																									0.0025	0.0025	0.0025	289	964
					162	126.7	-60.1																									0.07	0.03	487	1190	
					165	126.8	-60																									0.033	0.015	319	977	
					168	126.9	-60																									0.052	0.048	754	2570	
					171	127.1	-59.9																									0.036	0.025	763	2080	
					174	127.1	-59.9																									8.001	0.496	1600	1500	
					177	127.3	-59.9																									0.008	0.058	0.013	777.5	2752
					180	127.4	-60																									0.191	0.063	2290	5610	
					183	127.5	-60																									0.058	0.012	732	2040	
					186	127.6	-60																									0.039	0.034	0.118	603	1390
					189	127.7	-59.9																									0.036	0.146	0.062	1520	5740
					192	127.7	-60																									0.042	0.164	0.038	1970	4650
					195	127.7	-60																									0.121	0.098	1290	5970	
					198	127.8	-60																									0.055	0.214	0.065	2380	5660
					201	128	-60																									0.037	0.181	0.031	2610	5280
					204	128	-59.9																									0.0025	0.0025	0.0025	1	6
					207	128.1	-59.9																									0.104	0.047	1640	4460	
					210	128.2	-60																									0.033	0.018	470	1940	
					213	128.3	-59.9																									0.046	0.155	0.032	2630	3330

Start Date: 28/Jan/08

Hole: HN-08-51

Southampton Ventures Inc.

Nothing: 5646733

Depth: 281 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303301

Elevation: 255 911m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60.7

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
					216	128.4	-59.9																						233	234	26184	0.0575	0.219	0.14	3060	5530
					219	128.5	-59.9																						234	235	26185	0.023	0.069	0.014	613	2480
					222	128.6	-59.9																						235	236	26186	0.059	0.175	0.238	861	3090
					225	128.3	-59.9																						236	237	26187	0.343	0.147	0.238	1310	4960
					228	128.9	-60																						237	238	26188	0.013	0.045	0.063	398	1970
					231	128.3	-59.9																						238	239	26189	0.018	0.059	0.065	524	2100
					234	128.9	-60																								26190	0.502	7.9165	0.4945	1560	1720
					237	129.1	-59.9																						239	240	26191	0.0025	0.04	0.02	428	1240
					240	129.2	-60.1																						240	241	26192	0.0025	0.033	0.055	295	2540
					243	129.4	-59.9																						241	242	26193	0.053	0.023	0.115	309	2261.5
					246	129.4	-60.4																						242	243	26194	0.015	0.096	0.111	1210	2790
					249	129.6	-60																						243	244	26195	0.017	0.034	0.272	922	3080
					252	129.6	-60.1																						244	245	26196	0.0455	0.1415	0.153	1130	3530
					255	129.7	-60.1																						245	246	26197	0.035	0.149	0.153	962	3120
					258	129.9	-60.1																						246	247	26198	0.047	0.153	0.099	1240	5060
					261	130.2	-60																						247	248	26199	0.081	0.114	0.369	943	8560
					264	130.3	-59.8																								26200	0.099	0.139	0.054	24300	9350
					267	130.4	-59.8																						248	249	26201	0.0025	0.0025	0.06	141	1030
					273	130.6	-59.7																						249	250	26202	0.026	0.103	0.267	1130	7720
																													250	251	26203	0.026	0.091	0.077	922	3720
																													251	252	26204	0.033	0.108	0.057	1460	2740
																													252	253	26205	0.023	0.071	0.125	873	4840
																													253	254	26206	0.03	0.073	0.065	733	2620
																													254	255	26207	0.093	0.118	0.664	1430	4090
																													255	256	26208	0.0225	0.096	0.055	782	2360
																													256	257	26209	0.019	0.046	0.07	483	5240
																															26210	0.0025	0.0025	0.0025	0.5	6
																													257	258	26211	0.0025	0.074	0.055	756	7070
																													258	259	26212	0.0025	0.094	0.063	929	7670
																													259	260	26213	0.012	0.092	0.094	1410	6360
																													260	261	26214	0.0025	0.035	0.042	729	2376
																													261	262	26215	0.011	0.059	0.069	144	1440
																													262	263	26216	0.095	0.201	0.113	321	6340
																													263	264	26217	0.089	0.198	0.252	200	4920
																													264	265	26218	0.0025	0.0025	0.0025	59	583
																													265	266	26219	0.0025	0.0025	0.0025	112	1220

Start Date: 28/Jan/08 Hole: HN-08-51 **Southampton Ventures Inc.** Northing: 5646763 Depth: 281 m
 Completion Date: 30/Jan/08 Project: SV-HDN *Diamond Core Log Sheet* Easting: 903301 Elevation: 255.911m
 Azimuth: 124 Property: Horden Lake Projection: UTM NAD83 Zone 18N Hole Diameter: NQ
 Dip: -60.7 Logged By: landry Supervisor: []
 Survey Method: Reflex Maxibor Date: 25/04/2008 Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
																													266	267	26220	0.4896	7.959	0.4896	1560	1640
																												267	268	26222	0.0025	0.0025	0.0025	34	168	
																											268	269	26223	0.0025	0.0025	0.0025	10	42		
																										269	270	26224	0.0025	0.0025	0.0025	10	39			
																										270	271	26225	0.0025	0.0025	0.0025	76	146			
																										271	272	26226	0.0025	0.0025	0.0025	45	34			
																										272	273	26227	0.0025	0.0025	0.0025	67	245			
																										272	273	26227	0.0025	0.0025	0.0025	24	458			
																										273	274	26228	0.0025	0.0025	0.0025	17	93			
																										274	275	26229	0.0025	0.0025	0.0025	28	804			
																														26230	0.0025	0.0025	0.0025	0.5	4	
																										275	276	26231	0.0025	0.0025	0.0025	36	525			
																										276	277	26232	0.0025	0.0025	0.0025	33	99			
																										277	278	26233	0.0025	0.0025	0.0025	56	146			
																										278	279	26234	0.0025	0.0025	0.0025	36	123			
																										279	280	26235	0.0025	0.0025	0.0025	40	166			
																										280	281	26236	0.0025	0.0025	0.0025	40	259			
																										281	282.5	26237	0.0025	0.0025	0.0025	39	19			

Start Date: 28/Jan/08 Hole: HN-08-52

Southampton Ventures Inc.

Nothing: 6646734 Depth: 303 m

Completed Date: 30/Jan/08 Project: SV-HDN

Diamond Core Log Sheet

Easting: 903300 Elevation: 255 821 m

Azimuth: 124 Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.2 Logged By: Ian Dry Supervisor: [redacted]

Survey Method: Reflex Maxibor Date: 26/04/2008

Storage Location: Horden Lake

Table with columns: Depth, Rock Codes, Rock Description, Survey (Depth, Azimuth, Dip, Mag Field), Alteration (From, To, Intensity, Style, Type, Comments), Structure (From, To, Core Axis, Type), Texture (From, To, Texture, Comments), Mineralization (From, To, Style, Type, %, Comments), and Assays (From, To, Sample, Pt_ppm, Pd_ppm, Au_ppm, Ni_ppm, Cu_ppm). Rows contain detailed geological data for a diamond core log.

Start Date: 28/Jan/08 Hole: HN-08-52 **Southampton Ventures Inc.** Northing: 6646734 Depth: 303 m
 Completion Date: 30/Jan/08 Project: SV-HDN **Diamond Core Log Sheet** Easting: 303300 Elevation: 255 821 m
 Azimuth: 124 Property: Horden Lake Projection: UTM NAD83 Zone 18N Hole Diameter: NQ
 Dip: -69.2 Logged By: landry Supervisor: []
 Survey Method: Reflex Maxibor Date: 26/04/2008 Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
					216	126.5	-68.2		280.45	280.7	Moderate	Patchy	A	Cum or					237.7	239.5	POIK	Px, CG with	287.6	287.8	MASS	PY	50			252	253	29198	0.035	0.151	0.08	2340	5960
					219	126.6	-68.1							Ath									288	288.1	BLB	PO	10			253	254	29199	0.022	0.12	0.235	1928	7556.5
					222	126.8	-68.1							(gab/sec									288	288.1	DISS	CP	3						22600	8590			
					225	127	-67.9							contact									288	288.1					254	255	29201	0.032	0.126	0.061	1630	4800	
					228	127.2	-67.8							zone)									237.7	262.5	M				255	256	29202	0.0026	0.0765	0.00375	1240	1560	
					231	127.3	-67.8		280.45	280.7	Moderate	Pervasive	SI															256	257	29203	0.009	0.036	0.0025	1360	2690		
					234	127.4	-68		280.7	282.91	Moderate	Patchy	CH										243.2	246.8	FG/IG				257	258	29204	0.021	0.035	0.208	1270	2890	
					237	127.5	-67.8		288	288.13	Moderate	Patchy	CH										246.8	249.7	MG				258	259	29205	0.0025	0.031	0.021	1230	3830	
					240	127.6	-67.8		289.2	289.75	Moderate	Pervasive	CH										249.7	251.85	FG/IG				259	260	29206	0.0635	0.157	0.062	2130	5720	
					243	127.6	-68		290.85	291.25	Strong	Pervasive	CH										251.85	252.8	CG				260	260.5	29207	0.037	0.149	0.04	2480	5090	
					246	127.7	-67.8		293.05	293.95	Weak	Patchy	CH										252.8	259.15	FG/IG				260.5	261	29208	0.061	0.169	0.112	2710	4430	
					249	127.8	-67.9		297.2	300.15	Weak	Pervasive	CH										259.15	259.9	FG				261	261.5	29209	0.038	0.135	0.05	2390	5750	
					252	127.8	-67.8		300.15	303	Weak	Pervasive	CH										259.9	261.1	MG						29210	0.0025	0.0025	0.0025	3	9	
					255	127.9	-67.8																261.1	262.5	CG				261.5	262	29211	0.055	0.161	0.071	2120	4640	
					258	127.9	-67.9																262.5	262.6	MG				262	262.5	29212	0.036	0.191	0.162	894	2780	
					261	128	-67.9																262.6	263.55	FG				262.5	263	29213	0.206	0.192	0.403	852	3780	
					264	128	-67.8																263.55	264.9	MG/CG				263	264	29214	0.023	0.031	0.043	262	1310	
					267	128.1	-67.8																264.9	265.4	POIK	CG Px, 1cm, 20% of zone'			264	264.9	29215	0.061	0.105	0.125	1330	5960	
					270	128.3	-67.8																264.9	266	29216	0.033	0.118	0.13	1220	3900							
					273	128.4	-67.8																266	267	29217	0.031	0.023	0.029	162	982							
					276	128.3	-67.9																267	268	29218	0.016	0.025	0.035	179	1050							
					279	128.3	-67.9		269.15	269.65	FG												268	269	29219	0.011	0.052	0.015	1060	2230							
					282	128.4	-67.7																268	269	29220	0.51	7.957	0.5015	1660	1640							
					285	128.4	-67.6																269.65	270.4	MG				269	270	29221	0.047	0.091	0.067	1440	2180	
					286	128.4	-67.7																270.4	279.3	M				270	270.5	29222	0.138	0.367	0.333	5646.5	3004	
					289	128.3	-67.4																270.4	279.3	MG/CG				270.5	271.5	29223	0.049	0.134	0.174	1040	3740	
																							279.3	280.46	M				271.5	272.5	29224	0.078	0.203	0.363	1510	12000	
																							279.3	280.7	MG				272.5	273.2	29225	0.093	0.279	0.312	2360	18100	
																							280.7	282.91	FG	chloritized metased			273.2	274	29226	0.034	0.1036	0.145	1090	4130	
																							274	275	29227	0.038	0.111	0.114	1210	4200							
																							283.11	283.86	POBL	Crd			275	276	29228	0.006	0.023	0.0025	929	1390	
																							283.11	283.85	FG/IG	Bl-Crd sch.st hosted in FG			276	277	29229	0.103	0.047	0.0025	1300	1870	
																							286	286.39	FG						29230	0.0025	0.0025	0.0025	0.5	6	
																													277	277.7	29231	0.024	0.2	0.072	2620	26450	
																													277.7	278.3	29232	0.033	0.063	0.015	1320	1730	
																							286.39	286.7	POBL	Crd			278.3	279.3	29233	0.038	0.057	0.0025	1280	1530	

Start Date: 28/Jan/08

Hole: HN-08-52

Southampton Ventures Inc.

Nothing: 6646734

Depth: 303 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303300

Elevation: 255.821m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.2

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
																		300.15	303	FGIMG	"Bl-Chl Grt schist, minor Crd"																		
																		301.2	303	POBL	"Crd, minor"																		

Start Date: 28/Jan/08

Hole: HN-08-53

Southampton Ventures Inc.

Nothing: 6646766

Depth: 349 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303228

Elevation: 255 272m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays																			
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm										
	3				124	-61.5		26.17	30.57	Weak	Pervasive	CH						26.17	28	CG		75	82	DISS	PY	1	'1 bleb, some in fractures'	75	76	27239	0.0025	0.0025	0.0025	28	356											
								26.17	30.57	Strong	Fract-Cont	CH						28	28.8	FG	'altered, qtz vein 5cm thick"																									
								26.17	30.57	Moderate	Pervasive	SI						28.8	30.57	CG		80.5	81	DISS	PO	0.05																				
								28	28.8	Strong	Pervasive	BT						30.8	42.95	MG/CG		84.23	100.0	DISS	PY	0.05																				
								30.8	48	Moderate	Pervasive	SI						42.95	44.25	FG																										
								30.8	50	Weak	Pervasive	CH						44.25	45	MG/CG																										
								42.95	44.25	Strong	Fract-Cont	CH						45	46	FG																										
								42.95	44.25	Moderate	Patchy	BT						46	46.75	MG/CG																										
								45	46	Strong	Fract-Cont	CH						46.75	47.7	FG																										
								45	46	Moderate	Patchy	BT						47.7	56	CG																										
								46.75	47.7	Strong	Fract-Cont	CH						56	56.5	VFG																										
								46.75	47.7	Strong	Fract-Cont	BT						56.5	68.98	MG/CG																										
								48	48.25	Strong	Pervasive	SI						68.98	70.3	APH																										
								48.25	56	Moderate	Pervasive	SI						70.3	84.03	FG																										
								50	51.8	Strong	Pervasive	CH						84.03	84.23	CM																										
								51.8	56	Weak	Pervasive	CH						84.23	100.05	CG	magnetite ('0-15%)																									
								56	56.5	Strong	Pervasive	SI																																		
								56.5	65	Moderate	Pervasive	SI																																		
								56.5	68.98	Weak	Pervasive	CH																																		
								62.4	63	Strong	Fract-Cont	CH																																		
								65	66	Strong	Pervasive	SI																																		
								66	68.98	Moderate	Pervasive	SI																																		
								68.98	69.35	Strong	Patchy	SI																																		
								69.35	84.23	Weak	Fract-Cont	SI																																		
								70.03	70.25	Moderate	Fract-Cont	CH																																		
								76.38	77	Weak	Fract-Cont	E																																		
								84.23	100.05	Moderate	Pervasive	CH																																		
								105.25	115.9	Moderate	Pervasive	CH																																		
								115.9	157.5	Weak	Fract-Cont	CA																																		
								115.9	157.5	Weak	Pervasive	CH																																		
								157.5	166.72	Weak	Pervasive	SI																																		
								157.5	166.72	Weak	Pervasive	CH																																		
								166.72	176.48	Moderate	Fract-Cont	CA																																		

Start Date: 28/Jan/08

Hole: HN-08-54

Southampton Ventures Inc.

Nothing: 6646766

Depth: 378 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303228

Elevation: 255 356m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.6

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization				Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
377	378	MVOL		Mafic Volcanic	0	124	-69.6	27	27.7	Weak	Pervasive	CH		60.2	60.3	80	DYKE	27	27.7	CG		34	37	DISS	PY			34	34.5	30213	0.0025	0.0025	0.0025	49	82	
373	377	PEL		Metapelite	3	124.8	-69.8	27.9	29	Weak	Pervasive	BT		72.6	72.9	85	SHZ	27.7	29	FG	Qtz-Pl-Bt	34	34.5	BLB	ILM	5	cm sized crystals	36	37	30214	0.0025	0.0025	0.0025	48	48	
370.8	373	MVOL		Mafic Volcanic	6	125.4	-70.6	29.7	30.5	Moderate	Pervasive	CH		73.3	73.4	55	CT	28.9	29	CM							41.5	42	30215	0.0025	0.0025	0.0025	0.0025	0.012	46	375
366.7	370.8	PEL		Metapelite	9	125.2	-70.8	30.5	40.9	Weak	Pervasive	CH		81	82.1		FZ	29	30.5	M		40.9	42.3	DISS	ILM			66	66.7	30216	0.0025	0.0025	0.0025	23	86	
362.55	366.7	MTVOL		Metavolcanic	12	125	-70.7	38.5	39	Weak	Pervasive	BT		87.75	87.86	50	CT	29	30.5	MG/CG		41.9	41.96	FRA	PY	1		66.7	67.3	30217	0.0025	0.0025	0.434	22	21	
362	362.55	PEL		Metapelite	15	124.9	-70.7	40.9	42.3	Weak	Pervasive	CH		89	89.1	25	CT	30.5	38.1	CG		41.9	41.96	FRA	CP	4		67.3	67.9	30218	0.0025	0.0025	0.0025	15	15	
361.7	362	LC		Lost Core	16	124.8	-70.6	42.3	49.2	Weak	Pervasive	CH		94.85	95.5	25	SHZ	30.5	40.9	M		66	68	DISS	ILM	2	locally associated	71	71.65	30219	0.047	0.034	0.043	115	1830	
360.35	361.7	PEL		Metapelite	21	124.7	-70.8	43.7	49.2	Strong	Pervasive	BT		144.45	150.7	45	FOL	38.1	39.8	MG							91	92	30221	0.035	0.15	0.014	416	692		
355.3	360.35	MVOL		Mafic Volcanic	24	124.7	-70.9	49.2	59.4	Moderate	Pervasive	CH		177.3	177.3	80	CT	39.8	40.9	MG/CG							91	92	30221	0.035	0.15	0.014	416	692		
350.35	355.3	PSAM		Meta-Psammite	27	125	-70.8	52.4	52.8	Strong	Pervasive	CH		188.85	189.4	80	SHZ	40.9	42.3	M		71	71.5	DISS	CP	1		92	92.8	30222	0.034	0.227	0.0425	478	1520	
348.15	350.35	MSED		Metasediment	30	125.1	-70.6	52.4	52.6	Strong	Pervasive	BT		188.85	188.85	55	CT	40.9	42.3	CG		69.1	93.8	DISS	PO			94	95	30223	0.0025	0.0025	0.0025	34	809	
347.7	348.15	QTZE		Quartzite	33	125.3	-70.7	59.4	72.8	Weak	Pervasive	CH		189.4	193.8	60	FOL	42.3	72.6	M	locally weakly	69.1	93.8	DISS	CP			98	98.65	30224	0.118	0.341	0.058	660	2200	
341.9	347.7	MSED		Metasediment	36	125.6	-70.7	72.6	73.3	Strong	Pervasive	CH		198	198.1	60	CT				foliated/sheared	93.8	95.5	DISS	PO	2		99	99.75	30225	0.031	0.054	0.016	86	636	
332.65	334.4	GAB		Gabbro	39	125.6	-70.7	74	81	Weak	Pervasive	CH		205.5	211.5	55	FOL	42.3	72.6	CG		95.5	96.65	DISS	CP			186	186.5	30226	0.0025	0.0025	0.005	29	278	
332.5	332.65	MD		Mafic Dyke	42	125.6	-70.7	81	82.1	Strong	Patchy	SI		212.2	218.5	60	FOL	46.5	46.85	BC		204.8	205.5	DISS	PO			204.8	205.5	30227	0.0025	0.0025	0.054	31	488	
338.3	341.9	PEG		Pegmatite	45	125.8	-70.7	81	82.1	Strong	Patchy	FLD	and fracture	218.25	218.25	85	VEIN	48.9	49.2	BC		99	100	DISS	CP	1		217.1	218.1	30228	0.0025	0.0025	0.008	34	147	
335	338.3	GAB		Gabbro	48	125.9	-70.8							261.7	263.6	60	FOL	72.6	73.3	MG		186	188.5	FRA	CP	1	'ate, ass	187.4	188.1	30229	0.0025	0.0025	0.031	30	503	
334.4	335	PEG		Pegmatite	51	126.1	-70.7						cont.	268.1	271.5	60	FOL	73.3	73.4	CM									30230	0.0025	0.0025	0.0025	0.5	3		
327.3	332.5	GAB		Gabbro	54	126.3	-70.9	81	82.1	Moderate	Pervasive	CH		287.5	288.3	80	SHZ	73.3	74	FG	VFG at contact	197.5	198	FRA	CP	3	Co in small fracture	227.2	228	30231	0.0025	0.0025	0.0025	89	151	
318.9	327.3	LGAB		Leucogabbro	57	126.5	-70.7	82.1	86.9	Weak	Pervasive	CH		288.3	294.9	40	FOL	73.8	74	ENC	'oblate, 10 cm in size'	248	248.7	DISS	CP			248	248.7	30232	0.0025	0.0025	0.0025	33	86	
317.05	318.9	GAB		Gabbro	60	126.7	-70.7	86.9	87.75	Moderate	Pervasive	CH		295.5	296.1	60	SHZ					250	251	30233	0.022	0.0266	0.0306	48	141							
316.9	317.05	GAB		Gabbro	63	126.8	-70.7	89.1	93.8	Weak	Patchy	BT		297.75	298.05	75	SCHS	74	81	M		253.1	253.8	30234	0.036	0.014	0.067	24	116							
298.05	316.9	GAB		Gabbro	66	127	-70.8	89.1	93.8	Moderate	Pervasive	CH		303.7	303.8	40	SHZ	74	81	CG		204.8	205.5	FRA	CP			261	261.7	30235	0.0025	0.022	0.045	38	134	
297.75	298.05	PEL		Metapelite	69	127.1	-70.7	94.85	95.5	Weak	Patchy	SI		309.9	310.1	30	DYKE	81	82.1	B		212.2	218.5	DISS	CP		trace	263	264	30236	0.01	0.021	0.03	127	131	
296.1	297.75	PSAM		Meta-Psammite	72	127.2	-70.8	95.5	96.65	Weak	Patchy	SI		327.3	328.5	65	FOL	82.1	86.9	M		212.2	218.5	DISS	PY			264	265	30237	0.0025	0.0025	0.02	32	144	
271.5	296.1	GAB		Gabbro	75	127.2	-70.9	95.5	96.65	Strong	Pervasive	CH		332.5	332.65	45	CT	82.1	86.9	CG		212.2	218.5	DISS	PO		trace	265	266	30238	0.014	0.022	0.008	77	86	
268.1	271.5	PSAM		Meta-Psammite	78	127.3	-70.7	99	102.6	Weak	Patchy	BT		355.3	360.35	65	FOL	86.9	87.2	BC	at contact with	227	228	DISS	PO		trace	268.6	269.4	30239	0.011	0.014	0.013	61	246	
247.6	268.1	GAB		Gabbro	81	127.4	-70.9	99	102.6	Weak	Patchy	CH		366.7	370.8	65	FOL				upper Gao	248.5	248.8	FRA	CP	2				30240	0.4965	7.946	0.466	1630	1570	
242.55	247.6	GAB		Gabbro	84	127.5	-70.9	106	110.15	Weak	Patchy	SI		373	377	50	FOL	86.9	87.75	MG/CG	local CG alt: Px	250	254	DISS	CP			269.4	270	30241	0.016	0.012	0.008	57	98	
239.55	242.55	LGAB		Leucogabbro	87	127.7	-71	106	110.15	Moderate	Pervasive	CH						87.75	89.1	FG	VFG at chill margins	261	266	DISS	CP			270	270.7	30242	0.019	0.019	0.031	49	1150	
236.75	239.55	GAB		Gabbro	90	127.6	-70.8	110.15	123.5	Moderate	Pervasive	CH										261	266	DISS	PY			270.7	271.5	30243	0.017	0.018	0.016	56	761	
212	236.75	GAB		Gabbro	93	127.6	-70.8	123.5	129.65	Strong	Pervasive	CH						87.75	89.1	CM		268.1	271.5	DISS	CP	2		276	277	30244	0.014	0.034	0.011	77	286	
211.5	212	MD		Mafic Dyke	96	127.8	-70.7	129.65	140.05	Strong	Pervasive	CH						89.1	93.8	M		271.5	295.7	DISS	CP		trace, local	279	280	30245	0.0115	0.0456	0.005	176	236	
205.5	211.5	GAB		Gabbro	99	128	-70.8	129.65	133.9	Moderate	Pervasive	CH						89.1	93.8	MG/CG		271.5	295.7	DISS	PO		trace, local	281.6	282	30246	0.015	0.054	0.014	211	562	
204.85	205.5	MD		Mafic Dyke	102	128	-70.7	140.05	144.45	Moderate	Pervasive	CH						93.8	96	FG		271.5	295.7	DISS	PY		trace, local	263	264	30247	0.011	0.031	0.005	106	177	
198.1	204.85	GAB		Gabbro	105	128	-70.7															269	290	30248	0.0025	0.0025	0.0025			72	226					

Start Date: 28/Jan/08

Hole: HN-08-54

Southampton Ventures Inc.

Nothing: 6646766

Depth: 378 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903228

Elevation: 255 356 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.6

Logged By: Ian Dry

Supervisor: [Signature]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth				Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization				Assays														
From	To	Rock	Qual	Depth	Azimuth		Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm					
193.8	198.1	MD		106	128.3	-70.7		144.45	160.7	Strong	Pervasive	CH	with					94.85	95.5	ENC	complex	281.9	281.9	FRA	CP	2	ass with	294.5	295.5	30249	0.0025	0.014	0.007	61	119						
188.85	193.8	GAB		111	128.5	-70.6							local FG								sheared						Qtz vein	264.5	295.5	30250	0.101	0.138	0.06	22000	9190						
183.35	188.85	MD		114	128.7	-70.7							amphibole								contact with	296.1	297.7	DISS	CP			295.2	297	30251	0.0025	0.0025	0.0025	26	230						
183.2	183.35	QV		117	128.3	-70.8		150.7	157.8	Moderate	Pervasive	CH									lower unit	297.7	298.0	DISS	CP	1		297	297.5	30252	0.0025	0.0025	0.0025	144	463						
177.3	183.2	MD		120	129	-70.7		157.8	162.65	Weak	Fract-Cont	A						95.5	96.65	MG/CG		298.0	318.9	FRA	PO		two 1cm	297.5	298.1	30253	0.013	0.025	0.027	124	679						
176.05	177.3	GAB		123	129.1	-70.7		157.8	162.65	Strong	Pervasive	CH						95.5	96.65	M						Qtz veins	300	301	30254	0.0025	0.0025	0.017	117	359							
162.65	176.05	MGAB		126	129.3	-70.7		162.65	172	Strong	Pervasive	CH						98.65	99.1	FG		298.0	318.9	DISS	PO			301.7	302.7	30255	0.011	0.033	0.035	154	926						
157.8	162.65	PXE		129	129.6	-70.7		172	176.05	Moderate	Pervasive	CH						99.1	102.7	FG/MG		298.0	318.9	DISS	CP			304	305	30256	0.0025	0.0025	0.024	129	455						
150.7	157.8	MGAB		132	129.7	-70.7		172	174	Weak	Fract-Cont	SI						102.7	106	FG		300.8	302	FRA	CP		two 1cm	305	305	30257	0.028	0.031	0.0095	104	177						
144.45	150.7	PXE		135	129.7	-70.7		176.05	177.3	Moderate	Pervasive	CH						105.5	106	BC						Qtz veins	307.6	308.6	30258	0.0025	0.0025	0.015	72	116							
140.05	144.45	MGAB		138	129.8	-70.7		177.3	183.2	Weak	Fract-Cont	SI						106	110.15	M		316.9	317.0	DISS	ILM	4		309	310	30259	0.016	0.022	0.006	94	219						
123.5	140.05	PXE		141	130.1	-70.7		177.3	183.2	Weak	Pervasive	CH						106	110.15	MG/CG		with local CG	316.9	317.0	DISS	CP	1				30260	0.0025	0.0025	0.0025	0.5	3					
110.15	123.5	MGAB		144	130.3	-70.8		183.2	183.35	Strong	Fract-Cont	SI									alt Px	317.0	318.9	DISS	PO			313.7	314.4	30261	0.006	0.015	0.0025	53	149						
105	110.15	PXE		147	130.4	-70.7		183.35	188.85	Weak	Fract-Cont	SI	local					110.15	123.5	POIK		2-3 cm sized	318.9	327.3	DISS	CP			315.8	317.4	30262	0.01	0.02	0.019	87	320					
98.65	106	MD		150	130.5	-70.7							small 1								px with	318.9	327.3	DISS	PO			322	322.8	30263	0.018	0.02	0.011	101	400						
95.5	98.65	PXE		153	130.5	-70.7							cm veins								inclusion.	327.3	332.5	DISS	PO			325	326	30264	0.006	0.02	0.014	132	334						
93.8	95.5	MD		156	130.6	-70.7							of Qtz								dispersed in	327.3	332.5	DISS	CP			328	329	30265	0.0025	0.02	0.005	52	211						
89.1	93.8	PXE		159	130.8	-70.7		183.35	188.85	Weak	Pervasive	CH									unit, 10%"	332.6	334.4	DISS	CP			329	330	30266	0.0025	0.01	0.008	61	277						
87.75	89.1	MD		162	130.9	-70.7		188.85	193.8	Weak	Patchy	A	local					110.15	123.5	MG/CG		local CG Py.	332.6	334.4	DISS	PO	1		330	331	30267	0.0025	0.009	0.014	96	523					
86.9	87.75	PXE		165	130.9	-70.7							presence								of Cumm	333.8	333.9	MASS	PY	2	mini-massiv	331	332	30268	0.015	0.038	0.017	172	548						
82.1	86.9	GAB		168	131.1	-70.7																				e zone	332	332.6	30269	0.0625	0.2515	0.129	2120	7080							
81	82.1	UNK		171	131.4	-70.8		188.85	193.8	Weak	Patchy	SI						110.15	123.5	M								332	332.6	30270	0.469	7.9985	0.494	1530	1520						
74	81	GAB		174	131.5	-70.7		188.85	193.8	Moderate	Pervasive	BT						123.5	140.05	CG						e zone	332.6	333.1	30271	0.012	0.044	0.039	339	1210							
73.3	74	MD		177	131.4	-70.6		188.85	193.8	Moderate	Pervasive	CH						140.05	144.45	M								333.8	333.9	MASS	PO	85	mini-massiv	333.7	334.5	30272	0.022	0.05	0.042	341	1200
72.6	73.3	MGAB		180	131.6	-70.6		193.8	195.7	Moderate	Pervasive	CH						140.05	144.45	POIK								334.5	335	30273	0.008	0.01	0.005	37	111						
42.3	72.6	GAB		183	131.9	-70.6		193.8	195.7	Moderate	Patchy	SI						140.05	144.45	MG/CG		CG Px	335	338.3	DISS	PY	2		335	335.5	30274	0.06	0.198	0.039	1650	3630					
40.9	42.3	MGAB		186	132	-70.6							and					144.45	150.7	M		local weak fol	335	338.3	DISS	CP	1		335.5	335	30275	0.027	0.064	0.02	650	1450					
30.5	40.9	GAB		189	132	-70.5							controlled					144.45	150.7	CG								336	337	30276	0.014	0.101	0.061	1340	5460						
29	30.5	LGAB		192	132.1	-70.5		193.8	195.7	Strong	Pervasive	BT						150.7	157.8	POIK		10% 5-7 cm	338.3	338.3	CON	CP	20		337	337.7	30277	0.066	0.25	0.063	3670	8170					
27.7	29	FD		195	132.2	-70.5		195.7	198.1	Weak	Fract-Cont	SI						150.7	157.8	M		poikiloblasts	338.3	338.3	CON	PO	10		337.7	338.2	30278	0.039	0.199	0.062	2670	14100					
27	27.7	LGAB		198	132.2	-70.5		195.7	198.1	Strong	Pervasive	CH						150.7	157.8	M								338.2	339	30279	0.011	0.044	0.039	388	2810						
0	27	CAS		201	132.3	-70.5		197.5	198.1	Weak	Fract-Cont	CH						150.7	157.8	CG								341.9	345	DISS	MT	2		30280	0.0025	0.0025	0.0025	0.5	10		
				204	132.4	-70.5		198.1	198.9	Strong	Pervasive	BT						157.8	162.65	M								341.9	345.3	BLB-DISS	PY	3		30281	0.0025	0.0025	0.0025	155	336		
				207	132.6	-70.4		198.1	204.85	Moderate	Pervasive	CH						157.8	162.65	CG								341.9	346.3	BLB-DISS	PO	10		30494	0.0025	0.0025	0.0025	15	38		
				210	132.6	-70.5		198.9	204.85	Weak	Fract-Cont	SI						162.65	176.05	M								340	340	30495	0.0025	0.0025	0.0025	49	127						
				213	132.7	-70.3		204.85	205.5	Moderate	Pervasive	SI						162.65	176.05	CG								341.3	346.3	MASS	PO	100		30496	0.0025	0.0025	0.0025	16	193		

Start Date: 28/Jan/08

Hole: HN-08-54

Southampton Ventures Inc.

Nothing: 6646766

Depth: 378 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903228

Elevation: 255.356m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.6

Logged By: Iandry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
	216				132.7	-70.3		204.85	205.5	Strong	Pervasive	CH						167.6	172	POIK	10% GG Px; 5 cm in size	346.3	347.7	BLB	PO	7		341.7	342.6	30497	0.006	0.194	0.036	2670	3430				
	219				132.8	-70.3		205.5	210	Moderate	Pervasive	CH										347.3	347.7	DISS	CP	3		342.6	343.1	30498	0.007	0.081	0.044	944	5080				
	222				132.9	-70.3		207.45	211.5	Weak	Patchy	A	Cummingtonite					174	176.05	POIK	local poik Px	347.5	347.7	BLB	PY	20		343.1	344	30499	0.006	0.037	0.025	1700	4390				
	225				133	-70.2													176.05	177.3	M		348.1	348.1	CON	PY	5				30500	0.1	0.145	0.06	21950	8560			
	228				133	-70.2		207.45	211.5	Moderate	Patchy	BT	alteration-metasomatism of Px						176.05	177.3	MG/CG		348.1	348.7	DISS	CP			344	345	30501	0.008	0.076	0.056	1410	5420			
	231				132.9	-70.1													177.3	178	CM		348.1	348.7	BLB-DISS	PO	15		345	345.6	30502	0.046	0.097	0.14	1120	5390			
	234				133.1	-70.1													177.3	178	VFG		349	350.3	DISS	MT	1		345.6	346.2	30503	0.026	0.1	0.015	2720	2570			
	237				133.1	-70.2								located along foliation					178	178.3	FG		350.3	353.2	DISS	CP			346.2	346.6	30504	0.064	0.227	0.039	3650	4100			
	240				133.1	-70													178.3	183.2	MG		353.2	354	INT	CP	3		346.8	347.5	30505	0.0265	0.205	0.056	2790	4130			
	243				133	-70.1													183.35	185.1	FG/IMG	variable grain size	353.2	354	INT	PO	7	+ minor stringer	347.5	348.1	30506	0.241	0.106	0.042	948	3520			
	246				133	-70.1		210	211.5	Strong	Pervasive	CH																											
	249				133.1	-70.1		211.5	212.2	Moderate	Patchy	SI							185.1	186.9	MG		354	354.9	DISS	MT	1		348.6	349.3	30508	0.0025	0.015	0.008	63	969			
	252				133.3	-70		211.5	212.2	Strong	Pervasive	CH							186.9	187.55	FG		355.8	358.1	Vein	CP	15	assoc with carbonate	349.3	350	30509	0.0025	0.0025	0.0025	16	52			
	255				133.2	-70.1		212.2	212.7	Strong	Pervasive	CH							187.55	188.85	CM																		
	258				133.4	-70.1		212.7	236.75	Weak	Pervasive	CH							187.55	186.85	VFG		355.8	358.1	Vein	PO	5	assoc with carbonate	350	351	30511	0.0025	0.006	0.0025	15	47			
	261				133.6	-70.1		214.4	217	Weak	Patchy	SI							188.85	193.8	MG																		
	264				133.7	-70.1		215.9	216.6	Weak	Pervasive	BT							193.8	197.65	FG/IMG		358.3	360	DISS	MT	1		352	353	30513	0.006	0.01	0.053	39	1439.5			
	267				133.7	-70.1		220.6	221	Moderate	Pervasive	SI	small shear zone						197.65	197.9	FG		358.3	360	Vein	PY	2	assoc w Qtz veins	353	354	30514	0.03	0.134	0.022	1560	3220			
	270				133.6	-70													197.9	198.1	CM																		
	273				133.6	-69.9		220.6	221	Strong	Pervasive	CH	small shear zone						197.9	198.1	VFG		358.3	360	Vein	PO	1	assoc w Qtz veins	354.6	355.3	30516	0.0025	0.0025	0.0025	22	33			
	276				133.7	-69.8													198.1	204.85	M																		
	279				133.8	-69.8		220.6	221	Strong	Pervasive	BT	small shear zone						198.1	204.85	MG		362.5	364.7	DISS	CP		trace	355.1	357	30518	0.0025	0.0025	0.0025	48	694			
	282				133.9	-69.8													204.85	205.5	B	brecciated jagged contacts	373	377	DISS	MT	1		357	358	30519	0.0025	0.0025	0.0025	53	311			
	285				133.9	-69.8		224	226.85	Weak	Patchy	SI										373	377	DISS	CP		trace			30520	0.4925	7.937	0.469	1620	1680				
	288				133.9	-69.8		236.75	239.55	Moderate	Pervasive	CH							204.85	205.5	ENC																		
	291				133.9	-69.7		239.55	242.55	Moderate	Pervasive	CH							204.85	205.5	VFG																		
	294				134.1	-69.7		242.55	247.6	Moderate	Pervasive	CH							205.5	207.5	MG																		
	297				134.1	-69.6		245	247.6	Weak	Patchy	SI							207.5	211.5	FG/IMG	locally variable,																	
	300				134.2	-69.5		247.6	258.1	Weak	Pervasive	CH																											
	303				134.2	-69.5		248.85	249.9	Strong	Fract-Cont.	SI	Qtz vein																										
	306				134.2	-69.5		253.3	252.2	Weak	Patchy	SI	also fract control																										
	309				134.3	-69.5																																	
	312				134.4	-69.5		261.7	253.6	Strong	Pervasive	BT	alt of Px						211.5	212.2	FG																		
	315				134.6	-69.4		268.1	271.5	Weak	Patchy	CH							211.5	211.7	ENC																		
	318				134.7	-69.4		271.5	272.1	Weak	Pervasive	BT							212.2	236.75	M	locally weakly fol																	
	321				134.7	-69.4		271.5	275.5	Weak	Pervasive	CH							212.2	227	MG																		

Start Date: 28/Jan/08

Hole: HN-08-54

Southampton Ventures Inc.

Nothing: 6646766

Depth: 378 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303228

Elevation: 255.366m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.6

Logged By: landry

Supervisor: [Signature]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt ppm	Pd ppm	Au ppm	Ni ppm	Cu ppm		
	324	134.7	-69.4					276.5	286.1	Moderate	Pervasive	CH						227	228.4	CG	'well																	
	327	134.7	-69.4					281.5	282	Weak	Fract-Cont	SI									crystallized CG																	
	330	134.9	-69.4					282	285.5	Weak	Fract-Cont	BT									Plag. blady Px"																	
	333	135	-69.4					288.3	288.1	Strong	Patchy	SI	'secondary								contla ris FG																	
	336	134.9	-69.4										Si, not								amphibole																	
	339	134.9	-69.4										primary								(2-3%)																	
	342	135.2	-69.3										QGAB					230.1	231.9	CG																		
	345	135.3	-69.4										also					231.9	236.75	FG/MG	contla ris FG																	
	348	135.4	-69.4										locally								amphibole																	
	351	135.6	-69.4										fracture								(2-3%)																	
	354	135.7	-69.3										controlled"					236.75	239.55	POIK	Polikilitic Pl -																	
	357	135.7	-69.3					289	283.5	Weak	Patchy	BT	local alt								white blebs 1																	
	360	135.8	-69.3										of Px								cm in size,																	
	363	135.9	-69.2					295.1	297.75	Weak	Patchy	CH									10% of unit"																	
	366	136	-69.2					298.05	299.1	Moderate	Patchy	SI						236.75	239.55	MG																		
	372	136.3	-69.1					298.05	302.7	Weak	Pervasive	CH						236.75	239.55	M																		
								298.35	298.45	Weak	Pervasive	BT						239.55	242.55	POIK	poikilitic Pl																	
								302.8	302	Weak	Fract-Cont	SI									white blebs																	
								302.7	316.9	Moderate	Pervasive	CH									0.5-1 cm in																	
								316.9	317.05	Strong	Pervasive	CH									size, 10% of unit"																	
								317.05	318.9	Moderate	Pervasive	CH						239.55	242.55	M																		
								318.9	327.3	Moderate	Pervasive	CH						239.55	242.55	MG																		
								327.3	328.5	Weak	Patchy	BT						242.55	247.6	POIK	poikilitic plag,																	
								327.3	332.5	Moderate	Pervasive	CH									5% of unit"																	
								332.65	334.4	Moderate	Pervasive	CH						242.55	247.6	M																		
								333.15	334.4	Weak	Pervasive	BT						242.55	245.2	FG/MG	incl. 2-3% FG																	
								334.3	334.4	Weak	Patchy	SI									amphibole																	
								335	338.3	Moderate	Pervasive	CH						245.2	247.6	MG																		
								341.9	347.7	Moderate	Patchy	CH						247.6	261.7	M																		
								348.15	350.35	Weak	Patchy	CH						247.6	259.6	FG/MG																		
								355.3	360.35	Strong	Pervasive	CH						259.6	268.1	MG																		
								355.8	358.1	Moderate	Fract-Cont	CA						263.6	268.1	M																		
								358.3	360	Moderate	Fract-Cont	SI	Qtz veins					268.1	269.5	MG	Bl-Qtz-Pl psamm																	
								362.55	366.7	Moderate	Pervasive	CH						269.5	270.15	FG	'grey psamm																	
								372.8	373	Moderate	Pervasive	CH									Qtz-Pl minor Bl"																	
								377	378	Weak	Pervasive	CH						270.15	271.5	FG/MG	Bl-Chl schist																	

Start Date: 28/Jan/08

Hole: HN-08-54

Southampton Ventures Inc.

Nothing: 6646766

Depth: 378 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303228

Elevation: 255.366m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.6

Logged By: landry

Supervisor: [Signature]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration					Structure				Texture				Mineralization						Assays														
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm						
																			271.5	276.7	FG/IMG	"fg matrix, 'mg px"																				
																			276.7	282.4	MG	equigranular																				
																			282.4	286	CG																					
																			286	287.9	MG																					
																			287.9	286.1	MG/CG	altered by silica																				
																			287.9	288.3	FG	minor shear zone																				
																			296.1	297.75	M																					
																			296.1	297.75	FG/IMG	Bl-Hbl, m ncr Cr1'																				
																			297.75	296.05	POBL	Large 1-3 cm Cr'd pobi																				
																			297.75	296.05	FG	Bl-Schist, monir Chl. Hbl"																				
																			298.05	303.75	M																					
																			298.05	303.75	MG																					
																			303.75	316.9	M	weak fol																				
																			303.75	316.9	CG																					
																			316.9	317.05	PEG																					
																			316.9	317.05	CG	CG pegmatitic gabroic dyke																				
																			317.05	316.9	M																					
																			317.05	316.7	CG																					
																			318.7	316.9	MG																					
																			318.9	327.3	M																					
																			318.9	327.3	FG/IMG	"fg matrix, locally MG Px"																				
																			327.3	328.5	MG/CG																					
																			328.5	332.5	CG																					
																			328.5	332.5	M																					
																			332.5	332.65	FG																					
																			332.65	334.4	M																					
																			332.65	334.4	CG																					
																			334.4	335	PEG																					
																			334.4	335	CG	Qtz, Kspar, Ms, Grt, Tour"																				

Start Date: 28/Jan/08

Hole: HN-08-55

Southampton Ventures Inc.

Nothing: 6648651

Depth: 124 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303417

Elevation: 254.928 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -44.4

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays														
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm					
0					0	124	-44.4		22.77	24.5	Strong	Pervasive	BT					22.77	27	FG/IMG		22.77	41.55	FRA	PY	0.05	trace PY in														
									24.5	25.25	Weak	Pervasive	BT					27	27.8	MG/CG								fractures													
									25.25	26.45	Moderate	Pervasive	BT														throughout														
									26.45	38	Weak	Pervasive	BT														unit														
									26.5	38	Weak	Fract-Cont	K																												
									26.5	31	Moderate	Fract-Cont	SI																												
									26.5	29	Moderate	Pervasive	CH	moderate to weak																											
									27.55	27.6					27.55	27.6	42	FR																							
									31	35.4	Strong	Patchy	SI	strong to moderate					27.8	28.2	FG							28	29	28572	0.0025	0.0025	0.0025	0.0025	142	103					
									38	41.55	Moderate	Fract-Cont	SI					28.2	38.1	MG/CG							37	38	28573	0.0025	0.0025	0.0025	0.0025	160	133						
									38	41.55	Moderate	Pervasive	CH					38.1	41.55	FG							38	39	28574	0.0025	0.0025	0.0025	0.0025	162	93						
									38	41.55	Strong	Pervasive	BT	moderate to strong																											
									39	41.55					39	41.55	35	FOL										39	40	28575	0.0025	0.0025	0.0025	0.0025	176	58					
									42.35	42.92	Weak	Pervasive	CH						41.55	42.92	MG/CG	bt-schist (only bt and quartz in abundance)						40	41	28576	0.0025	0.0025	0.0025	0.0025	194	39					
									42.92	46.17	Moderate	Patchy	BT	pyroxenes altered into bla					41.55	42.92	FRA						41	41.55	28577	0.0025	0.0025	0.0025	0.0025	119	23						
									46.8	46.95					46.8	46.95	42	VEIN									41.55	42.05	28578	0.0025	0.0025	0.0025	0.0025	56	61						
									47	48	Weak	Fract-Cont	SI						42.92	49.17	MG/CG						42.05	42.92	28579	0.0025	0.0025	0.0025	0.0025	54	710						
									49.17	54.21	Strong	Patchy	CH						49.17	54.21	MG/CG	bt-schist					46.8	46.95	Vein	CP	1										
									52.4	53	Strong	Pervasive	BT	shearing?					49.17	54.21	DISS	(varying ratio of bt:quartz)					49.17	54.21	DISS	PY	1										
									54.46	56.75	Moderate	Fract-Cont	SI						54.21	54.46	VFG						54.21	54.46	DISS	CP	0.05	trace									
									54.46	56.75	Strong	Patchy	CH	very large patches					54.46	56.75	DISS						54.46	56.75	DISS	PENT	1										
									56.75	63.3	Weak	Patchy	BT						54.46	56.75	BLB-DISS						54.46	56.75	DISS	PO	2										
									56.75	63.3	Strong	Patchy	SI						56.75	57.35	FG						54.46	56.75	DISS	CP	1										
									56.75	63.3	Strong	Fract-Cont	SI						57.35	63.3	CG						54.46	56.75	DISS	PY	1										
									56.75	63.3	Strong	Pervasive	CH						56.75	63.3	DISS						56.75	63.3	DISS	PY	0.05	trace									
									57.9	58					57.9	58	70	VEIN																							
									63.3	65	Moderate	Patchy	CH						63.3	65	MG/CG	bt-schist					63.3	65	DISS	CP	2										

Start Date: 28/Jan/08

Hole: HN-08-55

Southampton Ventures Inc.

Nothing: 6646651

Depth: 124 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303417

Elevation: 254.928m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -44.4

Logged By: Iandry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays														
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm					
								110.65	111.45	Weak	Fract-Cont	SI						110.65	111.45	FG		110.6	111.4	FRA	PY	1	fracture and trace DISS														
								111.45	113	Moderate	Fract-Cont	SI						111.45	112.5	CG	ord-bt-schist (major bt for first 30cm)																				
								111.45	113	Weak	Pervasive	CH																													
								113	116.58	Strong	Fract-Cont	SI										119.5	121.7	DISS	MT	2															
								114.9	115	Weak	Patchy	CA						112.5	113	BLQ			123.3	124	DISS	MT	2														
								116.58	117.65	Moderate	Pervasive	BT						113	116.58	FG																					
								116.58	121.77	Weak	Fract-Cont	SI						116.58	117.65	CG	ord-bt-mo-schist																				
								119.55	121.77	Strong	Pervasive	CH						117.65	119.55	CG	ord-mo-schist																				
								121.77	121.96	Moderate	Pervasive	SI						119.55	121.77	CG	ord-grt-bt-schist; very large garnets																				
								121.77	121.96	Strong	Fract-Cont	SI						121.77	121.96	FG																					
121.96	124	PEL		Metapelite				121.96	124	Strong	Patchy	SI						121.96	123.3	MG/CG	ord-bt-mo-schist																				
121.77	121.96	MVOL		Mafic Volcanic				123.3	124	Strong	Pervasive	CH						123.3	124	MG/CG	ord-grt-mo-schist																				
116.58	121.77	PEL		Metapelite																																					
113	116.58	MVOL		Mafic Volcanic																																					
111.45	113	PEL		Metapelite																																					
110.65	111.45	MVOL		Mafic Volcanic																																					

Start Date: 28/Jan/08

Hole: HN-08-56

Southampton Ventures Inc.

Nothing: 6646651

Depth: 160 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803416

Elevation: 254.937m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -69.9

Logged By: Iandry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
130.63	155.6	MSED		Metasediment	0	124	-69.9		41.09	41.33	Strong	Patchy	SI		18.42	18.46	85	VEIN	17	54.33	MG	FG to CG, grain size	54.33	65.8	BLB-DISS	CP	2		21	21.5	26982	0.03	0.022	0.0025	80	25
129.37	150.63	MTVOL		Metavolcanic	3	124	-69.9		54.33	65.8	Weak	Patchy	CH		21.12	21.22	50	VEIN					65.8	67.96	BLB-DISS	PO	2		30	30.5	26983	0.028	0.09	0.195	333	2280
125.12	129.37	MSED		Metasediment	6	123.7	-69.9		54.33	65.8	Moderate	Pervasive	SI	SI alt?	30.18	30.26	65	BT				highly variable"						45.5	46.5	26984	0.0025	0.0025	0.0025	75	123	
124.97	125.12	MS		Massive sulphide	9	123.4	-69.8		82.5	84	Moderate	Patchy	SI		52.27	52.47	1	VEIN	17	54.33	M	mostly massive	65.8	67.96	BLB-DISS	CP	1.5		48.5	49.5	26985	0.0025	0.016	0.0025	70	123
120.32	124.97	MSED		Metasediment	12	123.4	-69.6		84	84.37	Strong	Pervasive	SI		54.33	65.8	60	FOL	54.33	65.8	MG		87.96	69.85	BLB-DISS	CP	1		52	52.5	26986	0.0025	0.0025	0.0025	53	24
96.02	120.32	GAB		Gabbro	15	123.5	-69.8		64.37	67.96	Moderate	Patchy	SI		67.15	67.4	1	VEIN	65.8	67.96	M		87.96	69.85	BLB-DISS	PO	1		66.75	67.75	26987	0.0025	0.0025	0.0025	42	20
94.98	96.02	MSED		Metasediment	16	123.5	-69.7		87.96	88.15	Weak	Pervasive	E	Epidote	87.98	89.85	57	FOL	65.8	67.96	CG		89.85	94.98	BLB-DISS	PY	0.5		82.5	84	26988	0.014	0.014	0.0025	101	250
99.65	94.98	MSED		Metasediment	21	123.6	-69.7							alt?	89.85	94.98	57	FOL	87.96	69.85	MG		69.85	94.98	BLB-DISS	CP	0.5		84	85	26989	0.0025	0.0025	0.0025	67	194
87.96	89.85	MSED		Metasediment	24	123.8	-69.7		87.96	88.15	Strong	Pervasive	SI		139.01	139.16	55	FOL	89.85	94.98	MG		89.85	94.98	BLB-DISS	PO	0.5				26990	0.501	7.9965	0.488	1750	1850
65.8	87.96	GAB		Gabbro	27	123.9	-69.7		89.85	94.98	Moderate	Pervasive	CH		139.01	139.16	65	VEIN	94.98	96.02	MG		94.98	96.02	BLB-DISS	CP	1		85	86	26991	0.0025	0.0025	0.0025	35	77
54.33	65.8	MSED		Metasediment	30	123.9	-69.6		89.85	94.98	Moderate	Pervasive	A		96.02	120.32		M					94.98	96.02	BLB-DISS	PO	1		86	87	26992	0.0025	0.0025	0.0025	78	224
17	54.33	GAB		Gabbro	33	123.8	-69.5		104	104.5	Strong	Pervasive	CH						96.02	120.32	CG		96.02	120.3	BLB-DISS	CP	3		87	88	26993	0.0025	0.0025	0.0025	66	128
0	17	CAS		Casing	36	123.9	-69.3								120.32	124.97			120.32	124.97	MG		96.02	120.3	BLB-DISS	PO	6		88	89	26994	0.0025	0.0025	0.0025	38	122
					39	124.1	-69.5												124.97	125.12	M		100.9	101.0	BLB-DISS	PY	9		89	90	26995	0.0025	0.0025	0.0025	36	212
					42	124.3	-69.5								100.9	101.0			125.12	129.37	MG		100.9	101.0	BLB-DISS	CP	13		93.5	94	26996	0.0435	0.0956	0.03	835	1700
					45	124.3	-69.5												129.37	130.63	FG		100.9	101.0	BLB-DISS	PO	13		94	95	26997	0.051	0.109	0.048	1280	2640
					48	124.3	-69.5												130.63	155.6	MG		119	119.2	SMASS	PY	5		95	96	26998	0.0025	0.0025	0.0025	258	239
					51	124.5	-69.5																119	119.2	SMASS	PO	35		96	97	26999	0.059	0.114	0.095	1810	6500
					54	124.6	-69.5								120.3	122.5							120.3	122.5	BLB-DISS	PY	1.5		27000	0.102	0.14	0.054	21100	8780		
					57	124.6	-69.4								120.3	122.5							120.3	122.5	BLB-DISS	CP	4		97	98	29268	0.019	0.054	0.123	1360	17000
					60	124.6	-69.4								120.3	122.5							120.3	122.5	BLB-DISS	PO	4		98	99	29269	0.036	0.12	0.218	1880	9990
					63	124.7	-69.2								122.5	123.6							122.5	123.6	SMASS	PY	5		29270	0.5015	8.0205	0.4825	1600	1600		
					66	124.8	-69.3								122.5	123.6							122.5	123.6	SMASS	CP	12		99	100	29271	0.023	0.084	0.096	1240	4600
					69	124.9	-69.2								122.5	123.6							122.5	123.6	SMASS	PO	20		100	101	29272	0.0685	0.1555	0.3855	2490	20000
					72	125	-69.2								124.9	125.1							124.9	125.1	MASS	CP	8		101	102	29273	0.024	0.161	0.16	2360	7730
					75	124.9	-69.1								124.9	125.1							124.9	125.1	MASS	PO	77		102	103	29274	0.061	0.143	0.508	1850	6220
					78	124.9	-69.2								125.1	129.3							125.1	129.3	SMASS	PY	5		103	104	29275	0.02	0.163	0.267	1640	21400
					81	125	-69.2								125.1	129.3							125.1	129.3	SMASS	CP	12		104	105	29276	0.026	0.067	0.032	1090	2600
					84	125.1	-69.1								125.1	129.3							125.1	129.3	SMASS	PO	22		105	105	29277	0.0025	0.031	0.015	295	1600
					87	125.3	-69.2								129.3	130.6							129.3	130.6	DISS	PO	0.1		106	107	29278	0.0025	0.0025	0.0025	122	386
					90	125.2	-69.1								130.6	155.6							130.6	155.6	DISS	PY	1		107	108	29279	0.04	0.044	0.062	908	2490
					93	125.2	-69								139.2	139.2							139.2	139.2	BLB	PY	20				29280	0.0025	0.0025	0.0025	0.5	5
					96	125.2	-68.9																					108	109	29281	0.015	0.062	0.044	927	3860	
					99	125.4	-69.1																					109	110	29282	0.045	0.0855	0.04	997	3330	
					102	125.5	-69																					110	111	29283	0.03	0.034	0.056	1170	4060	
					105	125.4	-68.9																					111	112	29284	0.081	0.119	0.044	1030	3500	

Start Date: 28/Jan/08

Hole: HN-08-57

Southampton Ventures Inc.

Nothing: 6648595

Depth: 182 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303319

Elevation: 255.140m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -70.3

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
183.52	191.39	MVOL		Mafic Volcanic	0	124	-70.3		41.84	42	Moderate	Patchy	FLD	FF at?	22.54	22.55	43	CT	21.5	22.54	M		57.6	57.65	BLB	ILM	5		41.75	42.25	26658	0.0025	0.0025	0.0025	148	73	
180.27	183.52	MSED		Metasediment	3	123.6	-70.3		41.84	42	Strong	Pervasive	SI		30.11	30.12	25	CT	21.5	22.54	CG		90	113.8	DISS	CP	1		45	46	26659	0.0025	0.0039	0.0025	122	99	
179.11	180.27	MS		Massive sulphide	6	123.5	-70.3		45.8	46	Strong	Fract-Cont	CH		34.82	35.04	25	SHZ	22.54	30.12	FG		128.4	153.0	BLB-DISS	PY	2.5				26660	0.0025	0.0025	0.0025	0.5	3	
168.84	179.11	MSED		Metasediment	9	123.4	-70.1		57.55	57.65	Strong	Patchy	FLD	with 5%	39	39.35	57	FOL	30.12	41.55	FG		135.0	135.4	FRA	PY	15		57	58	26661	0.0025	0.0025	0.0025	42	9	
153.04	168.84	GAB		Gabbro	12	123.3	-69.8							ILM	39	39.35	12	F	41.55	62.32	CG		141.2	141.3	FRA	PO	5		61.5	62.5	26662	0.0025	0.0025	0.0025	116	546	
126.4	153.04	MD		Mafic Dyke	15	123.5	-69.5		61.35	62.32	Strong	Pervasive	SI		45.8	46	21	SHZ	62.32	64.41	FG		141.2	141.3	FRA	PY	7		66.5	67.5	26663	0.0025	0.0025	0.0025	62	88	
122.57	126.4	PXE		Metapyroxenite	16	123.8	-69.6		65.86	67.13	Strong	Pervasive	CH		57.18	57.65	25	FOL	64.41	122.57	CG		153.0	168.8	BLB-DISS	CP	2	also as	67.5	68.5	26664	0.0025	0.019	0.008	126	168	
64.41	122.57	GAB		Gabbro	21	124	-69.6		62.75	62.85	Strong	Pervasive	SI	SI all?	6	35	62.32	35	FOL	90	90	BC						fract.	76.04	78.54	26665	0.0025	0.0025	0.0025	29	86	
62.32	64.41	MD		Mafic Dyke	24	124.1	-69.5		91	92	Strong	Fract-Cont	SI		69.5	70	20	FR	126.4	153.04	M	massive to					fract.	82.75	83.25	26666	0.0025	0.0025	0.0025	45	153		
41.55	62.32	GAB		Gabbro	27	124.3	-69.4		91.5	92	Moderate	Fract-Cont	CA		78.24	78.31	40	VEIN				foliate	153.0	168.8	BLB-DISS	PO	8	also as	90	91	26667	0.0025	0.0025	0.0025	54	41	
30.12	41.55	MD		Mafic Dyke	30	124.5	-69.4		92	92.25	Strong	Pervasive	FLD		90	113.81	60	FZ	126.4	153.04	FG	FG-MG					fract.	91	92	26668	0.0025	0.0025	0.0025	159	88		
22.54	30.12	MD		Mafic Dyke	33	124.7	-69.2		95	96.5	Strong	Pervasive	SI		90	93	45	FR	153.04	166.84	M					fract.	92	93	26669	0.0025	0.0025	0.0025	245	235			
21.5	22.54	PXE		Metapyroxenite	36	124.8	-69.1		98.6	98.7	Strong	Pervasive	FLD		127.47	127.57	45	VEIN	153.04	166.84	CG		168.8	179.1	BLB-DISS	PY	4				26670	0.0025	0.0025	0.0025	0.5	3	
0	21.5	CAS		Casing	39	125	-69		103.25	103.9	Strong	Pervasive	FLD		131.82	131.92	40	VEIN	168.84	179.11	MG		168.8	179.1	BLB-DISS	CP	4		93	94	26671	0.0025	0.0025	0.0025	282	605	
					42	125.3	-69		103.25	105	Strong	Pervasive	SI		136.95	137.04	50	VEIN	179.11	180.27	M		168.8	179.1	BLB-DISS	PO	7		94	95	26672	0.0025	0.0025	0.0025	218	270	
					45	125.4	-68.9		105.2	108	Strong	Pervasive	SI		141.2	141.3	47	VEIN	180.27	183.52	MG		168.8	171.3	BLB-DISS	PY	5		95	96	26673	0.0025	0.0025	0.008	129	3140	
					48	125.6	-68.9		135.1	135.4	Strong	Fract-Cont	SI	15% py	150.18	150.27	55	VEIN	183.52	191.39	MG	FG-MG	168.8	171.3	SMASS	CP	8		96	97	26674	0.0025	0.0025	0.0025	121	101	
					51	125.8	-68.9		137.05	137.25	Strong	Pervasive	SI		160.27	163.52	52	FOL					168.8	171.3	SMASS	PO	32		97	98	26675	0.016	0.023	0.0025	140	221	
					54	125.9	-68.8		138.05	138.13	Strong	Fract-Cont	SI	15% py	171.3	178.7	42	FOL					171.3	178.7	DISS	MT	2		98	99	26676	0.0025	0.0025	0.0025	142	296	
					57	125.9	-68.8		147.15	147.85	Strong	Pervasive	SI		187.5	187.57	37	VEIN					178.9	177.9	MASS	CP	15		99	100	26677	0.0025	0.0025	0.0025	121	197	
					60	125.9	-68.7		184.65	184.75	Strong	Fract-Cont	SI										176.9	177.9	MASS	PO	40		100	101	26678	0.0025	0.0025	0.0025	338	850	
					63	125.8	-68.7		188.1	188.8	Strong	Pervasive	SI										179.1	160.2	MASS	PY	15		101	102	26679	0.008	0.005	0.0025	207	387	
					66	126	-68.7		190.15	190.55	Strong	Pervasive	SI										179.1	160.2	MASS	CP	5				26680	0.0025	0.0025	0.0025	14	8	
					69	126	-68.6																179.1	160.2	MASS	PO	75		102	103	26681	0.007	0.011	0.0025	294	175	
					72	126.1	-68.7																						103	104	26682	0.0025	0.0025	0.0025	146	39	
					75	126.2	-68.6																						104	105	26683	0.0025	0.0025	0.0025	186	209	
					78	126.1	-68.6																						105	105	26684	0.0025	0.0025	0.0025	189	138	
					81	126.2	-68.6																						106	107	26685	0.0025	0.0025	0.0025	106	366	
					84	126.2	-68.6																						107	108	26686	0.0025	0.0025	0.0025	169	193	
					87	126.3	-68.6																						108	109	26687	0.0025	0.0025	0.0025	85	62	
					90	126.4	-68.5																						109	110	26688	0.0025	0.0025	0.0025	97	440	
					93	126.4	-68.6																						110	111	26689	0.0025	0.0025	0.0025	105	64.1	
					96	126.5	-68.5																									26690	0.501	7.8965	0.504	1800	1830
					99	126.6	-68.4																						111	112	26691	0.045	0.0025	0.0025	81	622	
					102	126.4	-68.5																						112	113	26692	0.0025	0.0025	0.016	116	826	
					105	126.5	-68.4																						113	114	26693	0.0025	0.0025	0.0025	111	370	

Start Date: 28/Jan/08

Hole: HN-08-58

Southampton Ventures Inc.

Nothing: 6646654

Depth: 272 m

Completed on Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303237

Elevation: 254.654 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60.4

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization					Assays														
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
267.48	272	PEL		Metapelite	0	124	-60.4	81.34	81.73	Strong	Pervasive	SI		24	32.61	35	FR	24	32.61	M		69.58	70.34	DISS	PY	1	near and	69.5	70.5	24915	0.0025	0.0025	0.0025	188	268					
264.55	267.48	MD		Mafic Dyke	3	123.8	-60.1	106	106	Moderate	Pervasive	CH		49.28	60.49	40	FR	24	32.61	MG/CG							around	73	74.5	24916	0.011	0.006	0.0025	54	261					
260.62	264.55	SSH		Metased-Schists	6	123.5	-60.3	110	125.84	Weak	Patchy	BT	variable	64.42	64.78		DYKE	32.81	49.28	M						felsic	95.85	96.35	24917	0.0025	0.0025	0.0025	49	77						
253.39	260.62	MVOL		Mafic Volcanic	9	123.3	-60	128	128.3	Moderate	Fract-Cont	CH		69.56	70.34	45	VEIN	32.51	49.28	MG/CG						veinlets	112.1	112.6	24918	0.0025	0.0025	0.0025	121	252						
251.15	253.39	PSAM		Meta-Psammite	12	123.3	-59.7	135.39	135.44	Strong	Pervasive	E	sulphides	73.08	74.49	43	VEIN	49.28	60.49	M		73.06	74.49	DISS	PY	1	near and	130.9	132	24919	0.017	0.126	0.0025	36	214					
250.5	251.15	MS		Massive Sulphide	15	123.3	-59.4						along	83.92	85.46		VEIN	49.28	60.49	MG/CG						around			24920	0.3975	3.7405	0.2195	1430	1570						
250	250.5	SLT		Siltstone	16	123.4	-59.6						light	85.48	110	25	VEIN	60.49	69.56	M						felsic	132	133	24921	0.0025	0.0025	0.0025	46	190						
248.25	250	MS		Massive Sulphide	21	123.5	-59.6						green	85.48	110	55	FR	60.49	69.56	MG/CG						veinlets	133	134	24922	0.0025	0.0025	0.005	107	1240						
248.25	248.25	SLT		Siltstone	24	123.5	-59.6						veinlets	110	125.84	35	FR	69.56	70.34	M		83.92	85.46	DISS	MT	0.5		134	135	24923	0.0025	0.0025	0.012	36	622					
245.8	246.25	MS		Massive Sulphide	27	123.6	-59.6	136.44	152	Moderate	Patchy	SI		125.84	127.19	60	VEIN	69.56	70.34	YFG								135	135	24924	0.0025	0.0025	0.0025	47	350					
237.8	245.8	GAB		Gabbro	30	123.8	-59.6	145.42	145.6	Strong	Fract-Cont	CH	with Qtz	127.19	130.9	58	FOL	70.34	73.06	M								136	136.5	24925	0.0025	0.0025	0.0025	35	226					
230.45	237.8	MD		Mafic Dyke	33	123.9	-59.7						vein	130.9	136.44		VEIN	70.34	73.06	MG/CG								193.5	194.5	24927	0.035	0.03	0.015	97	464					
216.58	230.45	GAB		Gabbro	36	123.9	-59.7	146.55	147	Moderate	Fract-Cont	SI	veins	136.44	141.65	52	FR	73.06	74.49	M								194.5	195.5	24928	0.015	0.036	0.0025	238	216					
204.65	216.58	PXE		metapyroxenite	39	123.9	-59.8						with	136.44	141.65	52	FOL	73.06	74.49	FG	to very							195.5	196.9	24929	0.024	0.03	0.007	199	529					
197.2	204.65	PEL		Metapelite	42	123.9	-59.8						chlorite	152	163.36	40	FR	74.49	82.42	M									24930	0.0025	0.0025	0.0025	7	9						
194.2	197.2	GAB		Gabbro	45	123.9	-59.8						altered	152	163.36	60	FOL	74.49	82.42	MG/CG									195.9	198	24931	0.0025	0.0025	0.0025	28	355				
193.67	194.2	QITZE		Quartzite	48	123.9	-59.8						halo	174.62	174.74	80	VEIN	83.92	85.46	M									193.6	194.2	24932	0.0025	0.0025	0.0025	17	173				
183.56	193.67	MD		Mafic Dyke	51	123.9	-59.8	167.83	168	Moderate	Pervasive	SI	surroundin	163.56	193.67	70	VEIN	83.92	85.46	FG									198	200	24933	0.0025	0.0025	0.0025	22	508				
152	183.56	GAB		Gabbro	54	124	-59.8						g rocks	163.57	193.67	30	VEIN	85.46	110	M									200	201	24934	0.009	0.0065	0.02	31	1020				
136.44	152	LGAB		leucogabbro, var. met	57	124.1	-59.8						Px altered	193.67	194.2	59	FOL	85.46	110	MG/CG									203	204	24935	0.0025	0.0025	0.015	51	339				
130.9	136.44	MD		Mafic Dyke	60	124.2	-59.8						to bit	194.56	197.2		FZ	110	125.84	M									204	205	24936	0.0025	0.0025	0.027	111	1040				
127.19	130.9	LGAB		leucogabbro, var. met	63	124.3	-59.8	177.83	178	Moderate	Pervasive	SI		197.2	204.65	55	FOL	110	125.84	MG									205	205	24937	0.0025	0.0025	0.008	247	1100				
125.84	127.19	MD		Mafic Dyke	66	124.4	-59.8	194.2	197.2	Strong	Fract-Cont	CA		204.65	216.58	45	VEIN	125.84	127.19	FG									206	207	24938	0.0025	0.0025	0.0025	335	249				
110	125.84	LGAB		leucogabbro, var. met	69	124.5	-59.8	204.65	216.58	Moderate	Fract-Cont	CA		216.58	230.45	50	VEIN	127.19	130.9	MG									217	218	24939	0.039	0.081	0.01	177	713				
85.46	110	GAB		Gabbro	72	124.5	-59.8	216.58	230.45	Weak	Fract-Cont	SI		230.45	237.8	66	VEIN	130.9	136.44	M									237.8	243.5	ST	PO	2		24940	0.3975	3.8025	0.212	1320	1360
83.92	85.46	MD		Mafic Dyke	75	124.5	-59.8	235.5	241.2	Moderate	Pervasive	SI		237.8	245.8	40	VEIN	130.9	136.44	FG	finer near								218	220	24941	0.0025	0.0025	0.0025	66	181				
74.49	83.92	MGAB		meagabbro, var. meta	78	124.6	-59.9	246.25	248.25	Moderate	Fract-Cont	SI	vein to	246.25	248.25	55	FOL			M	contact with Lg								220	221	24942	0.015	0.055	0.0025	96	378				
73.06	74.49	MD		Mafic Dyke	81	124.6	-59.8						patch	248.25	250	56	STRI	136.44	146	M									221	223	24943	0.053	0.043	0.0025	61	234				
70.34	73.06	MGAB		meagabbro, var. meta	84	124.6	-59.9	253.39	260.62	Moderate	Patchy	SI	differs to	250.5	251.15	30	STRI	146	152	FG/MG									223	224	24944	0.0025	0.0025	0.0025	62	218				
69.56	70.34	MD		Mafic Dyke	87	124.7	-59.9						rock form	251.15	253.39	38	VEIN	152	163.56	FG/MG									224	225	24945	0.01	0.05	0.06	963	3020				
60.49	69.56	MGAB		meagabbro, var. meta	90	124.8	-59.9						darken to	253.39	260.62	58	FOL	183.56	193.67	M									225	225	24946	0.039	0.115	0.061	1310	2630				
49.28	60.49	PXE		metapyroxenite	93	124.9	-60						lighter	260.62	264.55	75	VEIN	183.56	193.67	FG									226	227	24947	0.061	0.165	0.075	1880	4600				
32.61	49.28	GAB		Gabbro	96	124.9	-60.1						green	264.55	267.48	70	FOL	193.67	194.2	FG	to very fine								227	228.5	24948	0.013	0.072	0.018	571	1760				
24	32.61	PXE		metapyroxenite	99	125	-60							264.55	267.48	33	VEIN	194.56	197.2	BC	fault zone								228.5	229	24949	0.02	0.123	0.048	1120	2990				
0	24	CAS		Casing	102	125.1	-59.8							267.48	272	43	VEIN			M	associated								246.2	248.2	ST	CP	4		24950	0.098	0.143	0.048	21300	9540
					105	125.1	-60.1							267.48	272	68	FOL			M	with Ca veinlets								229	230	24951	0.02	0.045	0.005	464	1650				

Start Date: 28/Jan/06

Hole: HN-08-58

Southampton Ventures Inc.

Northing: 6646654

Depth: 272 m

Completion Date: 30/Jan/06

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303237

Elevation: 254.664 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone 18N Hole Diameter: NQ

Dip: -60.4

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
	106				125.1	-59.9		260.62	264.55	Weak	Fract-Cont	A	slightly greener in some layers (void: primary?)					197.2	204.65	BC	fairly fractured	248.2	250	SMASS	PY	4		230	231	24962	0.0025	0.0025	0.0025	52	106
	111				125.2	-60												197.2	204.65	FG		248.2	250	SMASS	CP	11		231	232	24963	0.019	0.012	0.0025	66	80
	114				125.3	-60												204.65	216.58	BC		248.2	250	SMASS	PO	45		232	233	24964	0.028	0.022	0.0025	60	98
	117				125.3	-60.1												204.65	216.58	MG/CG		250	250.5	DISS	PO	0.5		233	234	24965	0.038	0.014	0.0025	44	70
	120				125.4	-60												216.58	230.45	M		250	250.5	DISS	CP	0.5		234	238	24966	0.0116	0.0105	0.0025	49	95
	123				125.4	-59.8												216.58	230.45	MG/CG		250	250.5	DISS	PY	1		236	237.5	24967	0.00375	0.0025	0.0025	50	91
	126				125.6	-59.9		264.55	267.48	Strong	Fract-Cont	SI	halo along veinlets					230.45	237.8	FG		250.5	251.1	DISS	PY	2		237.5	239	24968	0.01725	0.0185	0.00425	109.5	201
	129				125.8	-59.9												237.8	245.8	M		250.5	251.1	MASS	PO	10		239	240	24969	0.00125	0.00125	0.00125	4	3
	132				126	-59.9												237.8	245.8	FG/IMG		250.5	251.1	MASS	CP	80		240	240	24970	0.024	0.0715	0.0815	956	3185
	135				126.1	-59.7		270.8	272	Moderate	Patchy	A	appears as layers in unit.					245.8	246.25	FG		251.1	253.3	DISS	MT	0.5		240	240.5	24961	0.0735	0.1365	0.1275	1615	16600
	136				126.1	-59.9												246.25	246.25	FG		251.1	253.3	DISS	PY	1		240.5	241.5	24962	0.081	0.1585	0.139	1865	4110
	141				126.1	-60.1												248.25	250	FG		264.5	267.4	DISS	MT	0.25		241.5	242.5	24963	0.027	0.0505	0.0175	528	2350
	144				126.3	-59.9												250	250.5	FG								242.5	243.5	24964	0.0365	0.0725	0.158	705	4505
	147				126.4	-60												250.5	251.15	FG		243.5	244.1	24965	0.0305	0.1685	0.1105	1930	13600						
	150				126.5	-59.9												251.15	253.39	M		244.1	245	24966	0.029	0.06	0.13	422	7150						
	153				126.6	-59.9												251.15	253.39	FG		245	245.7	24967	0.039	0.328	0.301	1330	8690						
	156				126.7	-59.9												253.39	260.62	FG		245.7	246.2	24968	0.022	0.222	0.205	8040	9670						
	159				126.8	-59.9												260.62	264.55	FG	light purple in areas	246.2	247	24969	0.037	0.125	0.341	1020	14100						
	162				127	-60																					247	247	24970	0.393	3.8136	0.2156	1360	1330	
	165				127.1	-60												264.55	267.48	FG		247	247.7	24971	0.05	0.174	0.165	1660	21800						
	168				127.2	-59.9												267.48	272	FG		247.7	248.2	24972	0.0025	0.031	0.034	306	2440						
	171				127.4	-59.9																248.2	249	24973	0.016	0.183	0.068	3500	22000						
	174				127.5	-59.9												249	249.5	24974	0.058	0.284	0.064	4240	27000										
	177				127.7	-59.9												249.5	250	24975	0.055	0.452	0.034	7900	6520										
	180				127.9	-59.8												250	250.5	24976	0.094	0.214	1.07	246	6306										
	183				128.1	-59.8												250.5	251.1	24977	0.07	0.15	2.561	3670	127300										
	186				128.3	-59.8												251.1	252	24978	0.123	0.579	0.9005	294	7330										
	189				128.4	-59.7												252	253	24979	0.173	0.368	1.028	174	5380										
	192				128.4	-59.7																					24980	0.0025	0.0025	0.0025	10	172			
	195				128.5	-59.5												254	255.5	24981	0.0025	0.0025	0.0025	121	176										
	198				128.6	-59.6												255.5	257	24982	0.0025	0.0025	0.0025	290	169										
	201				128.6	-59.6												257	259	24983	0.0025	0.0025	0.0025	177	215										
	204				128.6	-59.7												259	261	24984	0.0025	0.0025	0.0025	146	61										
	207				128.7	-59.7												261	263	24985	0.0025	0.0025	0.0025	27	84										
	210				128.8	-59.7												263	264.5	24986	0.02	0.038	0.0025	38	348										
	213				128.8	-59.6												264.5	268	24987	0.025	0.016	0.006	52	128										

Start Date: 28/Jan/08

Hole: HN-08-59

Southampton Ventures Inc.

Nothing: 6646655

Depth: 286 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903236

Elevation: 254.443 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -69.6

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
282.63	286	PSAM		Meta-Psammite	0	124	-69.6	63.41	63.95	Strong	Pervasive	SI		37	38.39	3	FR	21.6	35	M		65.66	65.8	DISS	MT	5		116	119	26402	0.015	0.028	0.013	398	131
281.14	282.63	QTZE		Quartzite	3	124.2	-69.9	63.41	63.95	Strong	Pervasive	CH		46	49	55	FOL	21.5	35	CG		135.8	174	DISS	CP	0.1	traces of cp	119	120	26403	0.0025	0.008	0.015	227	48
277.78	281.14	MVOL		Mafic Volcanic	6	124.5	-69.7	118.71	119.4	Moderate	Patchy	SI		53.53	53.68	37	FOL	35	57.9	M								120	121	26404	0.006	0.0025	0.008	228	16
260.67	277.78	MSED		Metasediment	9	124.9	-69.4	119.4	123.03	Moderate	Pervasive	SI		96	96.25	57	FOL	35	57.9	CG							121	122	26405	0.007	0.013	0.009	217	18	
259.61	260.67	MS		Massive sulphide	12	125.1	-69	119.4	123.03	Moderate	Pervasive	CH		100.75	100.9	32	FR	46.9	47.5	BC		205.7	213.5	DISS	CP	1		122	123	26406	0.007	0.0025	0.01	157	162
252.52	259.61	PSAM		Meta-Psammite	15	125	-68.7	127.2	127.35	Strong	Pervasive	SI		116.71	119.4	52	FOL	57.9	61.84	M		213.5	215.6	DISS	CP	1		127	128	26407	0.007	0.0025	0.009	36	104
215.66	252.52	GAB		Gabbro	16	124.9	-68.5	146.95	147.14	Strong	Pervasive	SI		119.4	123.03	66	FOL	57.9	61.84	CG		148.5	148	26408	0.006	0.0025	0.01	57	32						
213.52	215.66	MSED		Metasediment	21	125	-68.5	147.65	147.72	Moderate	Fract-Cont	CH	Chl alt?	123.03	123	47	FOL	61.84	62.23	M		235.5	252.5	BLB-DISS	CP	2		157.5	158.5	26409	0.019	0.023	0.012	58	75
205.79	213.52	GAB		Gabbro	24	125	-68.7	148.9	149	Moderate	Fract-Cont	CH		127.06	127.2	85	VEIN	61.84	62.23	MG		235.5	252.5	BLB-DISS	PO	7			26410	0.0025	0.0025	0.0025	0.5	4	
187.82	205.79	MD		Mafic Dyke	27	125	-68.6	148.9	149	Strong	Fract-Cont	SI		148.9	149	47	FR	62.23	69.61	FG		252.5	253.0	BLB-DISS	CP	5		163.5	164.5	26411	0.015	0.01	0.011	107	152
174	187.82	GAB		Gabbro	30	125.1	-68.6	153.95	154.15	Moderate	Fract-Cont	CH		153.95	154.15	27	FR	69.61	75.67	M		252.5	253.0	SMASS	PO	80		173	174	26412	0.009	0.00425	0.0115	52	85
135.81	174	GAB		Gabbro	33	125	-68.6	153.95	154.15	Strong	Fract-Cont	SI		155.58	155.61	85	FR	69.61	75.67	CG		253.0	253.7	BLB-DISS	CP	5	and as stringers	175.5	161	26413	0.01	0.014	0.007	71	163
123.03	135.81	MD		Mafic Dyke	36	125	-68.7	156.58	156.61	Moderate	Fract-Cont	CH		163.77	164.05	15	FR	75.67	113.92	M							194	195	26414	0.006	0.0025	0.01	41	212	
119.4	123.03	GAB		Gabbro	39	124.8	-68.7	155.58	155.61	Strong	Fract-Cont	SI		173.5	173.59	65	VEIN	75.67	113.92	CG		253.0	253.7	BLB-DISS	PO	20	and as stringers	195	195	26415	0.012	0.0025	0.011	47	138
118.71	119.4	MSED		Metasediment	42	124.9	-68.6	157.86	158.41	Strong	Pervasive	SI		179.75	180.7	40	FR	113.92	116.71	FG	FG-MG						196	197	26416	0.024	0.016	0.0025	67	85	
113.92	118.71	PXE		Metaproxenite	45	124.5	-68.6	163.77	164.05	Moderate	Fract-Cont	CH		179.92	180.03	15	VEIN	118.71	119.4	MG		253.7	256.0	BLB-DISS	CP	2	and as stringers	197	198	26417	0.0025	0.0025	0.029	53	326
75.67	113.92	MGAB		Melagabbro	48	124.5	-68.6	163.77	164.05	Strong	Fract-Cont	SI		180.1	180.25	75	VEIN	119.4	123.03	MG							198	199	26418	0.008	0.0025	0.014	43	352	
69.61	75.67	PXE		Metaproxenite	51	124.5	-68.6	179.75	180.7	Moderate	Fract-Cont	CH		167.82	205.79	40	FOL	123.03	135.81	MG		253.7	256.0	BLB-DISS	PO	6	and as stringers	199	200	26419	0.01	0.0025	0.009	48	221
62.23	69.61	MD		Mafic Dyke	54	124.6	-68.7	179.75	180.7	Strong	Fract-Cont	SI		195.5	205.79	45	FR	128	135.81	M									26420	0.512	7.9225	0.4625	1660	1580	
61.84	62.23	MSED		Metasediment	57	124.5	-68.6	182.4	182.5	Moderate	Patchy	SI	Si alt?	205.79	213.52	35	FOL	135.81	174	M		256.0	256.2	MASS	PO	15		200	201	26421	0.032	0.024	0.033	77	169
57.9	61.84	PXE		Metaproxenite	60	124.4	-68.6	195.5	205.79	Moderate	Fract-Cont	SI		205.79	210	3	FR					256.0	256.2	MASS	CP	45		201	202	26422	0.041	0.011	0.014	143	18
35	57.9	MGAB		Melagabbro	63	124.3	-68.7	205.79	213.52	Moderate	Fract-Cont	SI		208.12	208.2	60	VEIN					256.2	256.5	BLB-DISS	CP	1.5		202	203	26423	0.0025	0.0025	0.008	171	4
21.6	35	PXE		Metaproxenite	66	124.3	-68.4	213.52	215.66	Moderate	Patchy	SI	Si alt?	213.52	215.66	50	FOL	135.81	167.52	MG							203	204	26424	0.0025	0.0025	0.00425	161	10	
0	21.6	CAS		Casing	69	124.3	-68.4	215.66	223	Moderate	Patchy	SI		223.12	223.22	42	JO	167.52	168.52	FG		256.5	256.6	BLB-DISS	CP	1.5		204	205	26425	0.0025	0.0025	0.0025	166	14
					72	124.4	-68.4	223.5	223.5	Strong	Pervasive	CH		223.5	226.8	40	FZ	168.52	174	MG		256.5	256.6	BLB-DISS	PY	3.5		205	205	26426	0.01	0.01	0.012	154	21
					75	124.5	-68.5	223.5	226.5	Strong	Pervasive	SI		245	247	35	FOL	174	187.82	M		256.5	256.6	MASS	PO	90		206	207	26427	0.015	0.016	0.015	148	34
					78	124.4	-68.6	256.04	256.14	Strong	Patchy	SI		260.67	277.78	57	FOL	174	187.82	CG		256.6	256.6	BLB-DISS	PY	1.5		207	208	26428	0.017	0.022	0.01	179	244
					81	124.4	-68.4	267.05	267.15	Strong	Patchy	CH		277.78	281.14	57	FOL	187.82	205.79	FG		256.6	256.6	BLB-DISS	CP	1.5		208	209	26429	0.018	0.044	0.013	199	172
					84	124.4	-68.4							282.63	286	60	FOL	205.79	213.52	M		256.6	256.6	BLB-DISS	PO	7			26430	0.0025	0.0025	0.0025	0.5	4	
					87	124.4	-68.6											205.79	213.52	CG		256.6	260.6	BLB-DISS	CP	5		209	210	26431	0.019	0.04	0.0025	196	82
					90	124.5	-68.7											213.52	215.66	MG		256.6	260.6	MASS	PO	90		210	211	26432	0.014	0.012	0.0025	114	70
					93	124.5	-68.4											215.66	223	M		260.6	274	BLB-DISS	PO	2		213.5	215	26433	0.011	0.0025	0.009	64	222
					96	124.6	-68.6											215.66	223	CG							220	221	26434	0.01	0.017	0.0025	168	158	
					99	124.6	-68.5											225.5	235.49	FG	Mafic dyke?						221	222	26435	0.017	0.018	0.005	165	166	
					102	124.3	-68.5											236.49	252.52	CG	CG-MG						222	223	26436	0.0195	0.024	0.0415	196	264	
					105	124.9	-68.4											252.52	259.61	MG	MG-FG						223	224	26437	0.02	0.03	0.012	209	309	

Start Date: 28/Jan/08

Hole: HN-08-59

Southampton Ventures Inc.

Nothing: 5648655

Depth: 286 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303236

Elevation: 254.443 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -69.6

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
	106				124.9	-68.4												258.6	260.67	M										224	225	26438	0.018	0.015	0.005	249	123		
	111				124.9	-68.6												260.67	277.78	MG	MG-FG									225	225	26439	0.013	0.014	0.0025	233	136		
	114				125	-68.6												277.78	281.14	MG												26440	0.4865	7.9385	0.4785	1710	1790		
	117				125	-68.6												281.14	282.63	MG										226	227	26441	0.025	0.074	0.013	114	232		
	120				125	-68.6												282.63	286	MG										227	228	26442	0.013	0.012	0.071	24	2080		
	123				125	-68.4																								228	229	26443	0.02	0.018	0.075	66	1530		
	126				125.1	-68.6																								229	230	26444	0.02	0.049	0.018	390	313		
	129				125.2	-68.5																								230	231	26445	0.022	0.017	0.0025	79	93		
	132				125.2	-68.4																								231	232	26446	0.026	0.019	0.0025	76	139		
	135				125.3	-68.4																									232	233	26447	0.037	0.014	0.005	60	50	
	136				125.3	-68.2																									233	234	26448	0.023	0.0145	0.00375	64	97	
	141				125.5	-68.4																									234	235	26449	0.044	0.014	0.007	67	81	
	144				125.5	-68.3																										26450	0.4945	7.9675	0.4655	1750	1680		
	147				125.6	-68.4																									235	235	26451	0.033	0.059	0.025	378	828	
	150				125.6	-68.4																									236	237	26452	0.07	0.162	0.11	1540	5940	
	153				125.6	-68.4																									237	238	26453	0.048	0.132	0.134	1100	3730	
	156				125.7	-68.4																									238	239	26454	0.086	0.116	0.155	1280	4290	
	159				125.8	-68.2																									239	240	26455	0.06	0.102	0.074	1150	2410	
	162				125.9	-68.3																									240	241	26456	0.057	0.148	0.107	1660	3530	
	165				125.9	-68.2																									241	242	26457	0.06	0.034	0.143	798	2260	
	166				126	-68.2																									242	243	26458	0.055	0.133	0.064	1530	4290	
	171				126.1	-68.1																									243	244	26459	0.056	0.115	0.138	1310	3910	
	174				126.2	-68.1																										26460	0.0025	0.0025	2	7			
	177				126.3	-68.1																									244	245	26461	0.135	0.143	0.057	2090	2790	
	180				126.4	-68.1																									245	245	26462	0.043	0.139	0.061	1110	4800	
	183				126.6	-68.2																									246	247	26463	0.039	0.12	0.064	1260	5540	
	186				126.8	-68.1																									247	248	26464	0.054	0.15	0.221	1820	5230	
	189				126.9	-68																									248	249	26465	0.06	0.112	0.313	577	4740	
	192				127	-67.9																									249	250	26466	0.055	0.13	0.362	1060	7460	
	195				127.1	-67.9																									250	251	26467	0.093	0.138	0.275	667	4458	
	198				127.1	-67.9																									251	252	26468	0.091	0.139	0.347	851	4940	
	201				127	-67.8																									252	253	0	26469	0.27	0.555	0.145	8860	15500
	204				127	-67.8																										26470	0.4945	7.9875	0.465	1660	1700		
	207				127.1	-67.7																									253	0	26471	0.121	0.229	0.051	4580	13900	
	210				127.1	-67.9																									253	7	26472	0.0275	0.052	0.9835	368	5980	
	213				127.1	-67.9																									255	256	0	26473	0.057	0.287	0.145	490	17700

Start Date: 28/Jan/08

Hole: HN-08-60

Southampton Ventures Inc.

Nothing: 6648695

Depth: 336 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303167

Elevation: 254.652m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -59.5

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays															
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm						
	0				124	-59.5		34.45	34.75	Strong	Pervasive	SI						31.15	44.5	MG/CG																						
								34.75	34.95	Strong	Fract-Cont	CH	sheared					44.5	44.65	MG/CG																						
								41.45	41.6	Strong	Fract-Cont	E						44.65	45	FG																						
								42.8	43.4	Weak	Pervasive	CH						45	46.85	MG/CG																						
								42.8	43.4	Moderate	Pervasive	SI						46.85	55	MG/CG																						
								44.65	45	Moderate	Fract-Cont	CA						55	58.95	MG/CG																						
								44.65	45	Strong	Pervasive	BT	"original texture is completely lost, sheets of Bt and Ch"					58.95	60.1	CG																						
								44.65	45	Strong	Pervasive	CH	"highly altered, possibly sheared"																													
								46.85	55	Weak	Fract-Cont	CA																														
								47.1	47.55	Weak	Pervasive	CH																														
								47.1	47.55	Moderate	Pervasive	SI																														
								55	58.95	Moderate	Fract-Cont	CH																														
								59.5	60.1	Strong	Pervasive	BT	highly altered and sheared	59.5	60.1	60	FOL	59.5	60.1	FG	"highly altered and sheared zone, can see stretched pyroxenes."																					
								59.5	60.1	Strong	Pervasive	CH						60.1	74.3	MG/CG																						
								60.1	74.3	Moderate	Fract-Cont	CH						74.3	76.15	FG/MG																						
								74.3	76.15	Strong	Pervasive	SI						74.3	76.15	FG/MG																						
								74.3	76.15	Strong	Pervasive	BT	zone is mainly sheared					76.15	76.55	POR	fg crystals in vfg matrix																					
								74.3	76.15	Strong	Pervasive	CH	zone is mainly sheared					76.55	77.27	FG/MG																						
								74.3	76.15	Strong	Pervasive	CH	zone is mainly sheared					77.27	80.55	MG/CG																						
								75.15	75.55	Weak	Fract-Cont	CH						80.55	80.8	MG/CG																						
								75.55	77.27	Strong	Pervasive	SI						80.55	80.8	PEG																						
								75.55	77.27	Strong	Pervasive	BT																														

Start Date: 28/Jan/08

Hole: HN-08-60

Southampton Ventures Inc.

Nothing: 6648695

Depth: 336 m

Completed on Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303167

Elevation: 254.662m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -59.5

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
								76.56	77.27	Strong	Pervasive	CH																											
								77.27	81.65	Weak	Fract-Cont	CH																											
								77.27	80.35	Strong	Pervasive	SI																											
								79.45	79.55	Moderate	Fract-Cont	BT	zone looks sheared																										
								81.65	82.65	Weak	Pervasive	CH		81.65	81.75	50	FOL	81.65	81.75	MG/CG																			
								81.65	81.75	Weak	Pervasive	CH		81.65	81.75	50	FOL	81.65	81.75	MG/CG	foliation																		
								82.65	85.15	Strong	Fract-Cont	CH		82.65	83.15			82.65	83.15	MG/CG		86.2	87.45	DISS	CP	5		85.15	86.2	27148	0.018	0.048	0.01	123	321				
								85.35	87.45	Weak	Pervasive	CH		85.35	86.2			85.35	86.2	CG		86.2	87.45	DISS	PO	2		86.2	87	27149	0.013	0.02	0.01	94	697				
								85.9	86.2	Moderate	Fract-Cont	BT		86.2	87.45			86.2	87.45	PEG		86.2	87.45	DISS	PY	5													
								87.45	90.88	Weak	Pervasive	CH		87.45	88.7			87.45	88.7	PEG		96	99	FRA	PO	5													
								90.88	92.1	Strong	Pervasive	SI		90.88	91.9			90.88	91.9	MG/CG		111.8	112.2	DISS	PO	0.5													
								92.38	104.13	Weak	Pervasive	CH		92.38	92.1			92.38	92.1	PEG																			
								94.35	104.13	Strong	Pervasive	SI	moderate to strong	94.35	92.1			94.35	92.1	PEG																			
								100.25	100.45	Strong	Fract-Cont	BT		100.25	92.1			100.25	92.1	FG																			
								104.13	110.15	Moderate	Pervasive	CH		104.13	104.13			104.13	104.13	MG/CG																			
								110.15	116.05	Moderate	Pervasive	SI		110.15	110.15			110.15	110.15	CG	amphibolite (10-15%)																		
								110.15	116.05	Moderate	Pervasive	CH		110.15	116.05			110.15	116.05	MG/CG																			
305.6	306.45	MVOL		Mafic Volcanic				116.05	117	Weak	Fract-Cont	CA		114.83	114.86	30	VEIN	116.05	116.12	CM		116.0	117	DISS	PO	3													
305.3	305.6	PSAM		Meta-Psammite				116.05	117	Moderate	Pervasive	CH		116.05	117			116.05	117	POR	amphibole	116.0	117	DISS	PY	1													
								117	124	Strong	Pervasive	CH		117	123			117	123	CG		117	146.4	DISS	CP	1													
								124	146.4	Moderate	Pervasive	CH	moderate to weak	123	146.4			123	146.4	POIK	pyroxenes	117	146.4	DISS	PO	10													
								146.4	173.6	Weak	Fract-Cont	CA		146.4	173.6			146.4	173.6	POIK	within amphibole pyroxene	158.6	160.0	DISS	CP	1													
								146.4	173.6	Weak	Pervasive	CH		146.4	173.6			146.4	173.6	POIK	within amphibole	158.6	160.0	DISS	PY	1													
								154.3	157.2	Weak	Pervasive	SI	strong at fractures	173.6	173.8			173.6	173.8	CM		173.6	160.2	DISS	PO	3	'some found within 5cm quartz veins, some in DD matrix'												
								154.3	157.2	Moderate	Pervasive	CH	strongest at fractures	173.8	179.2			173.8	179.2	PHAN	equigranular																		
								173.6	180.2	Moderate	Fract-Cont	SI	also some is patchy	179.2	180			180	180.2	APH																			
								180.2	181.55					180.2	181.55			180.2	181.55	CM																			
								181.55	192.65					181.55	192.65			181.55	192.65	POIK																			
								192.65	193.15					192.65	193.15			192.65	193.15	MG/CG																			
																				FG/IMG	'ord, bt, ath'																		

Start Date: 28/Jan/08

Hole: HN-08-60

Southampton Ventures Inc.

Northing: 6648695

Depth: 336 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 803167

Elevation: 254.662m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -59.5

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
326.28	335	PEL		Metapelite				326.28	335	Moderate	Pervasive	Sl						326.28	328	POBL	corphyroblasts of garnet. ord. bt rich"																			
																			328	329.65	FG	mu rich: mu-schist																		
																			329.65	331.6	POBL	mainly ord. some garnet, large Bl and mu'																		
																			331.6	335	FG	mu rich, much lighter in color: mu-schist"																		

Start Date: 28/Jan/08

Hole: HN-08-61

Southampton Ventures Inc.

Nothing: 6648695

Depth: 364 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303166

Elevation: 254.416 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -69.6

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
348.95	354	PEL		Metapelite	0	124	-69.6		33.1	33.4	Moderate	Fract-Cont	SI		4	84	41.82	42	SHZ	28.3	45.04	M		82.1	82.2	FRA	PO	1.5		41	42	26547	0.0025	0.0025	0.0025	40	69
346.79	346.95	MVOL		Mafic Volcanic	3	124	-70		41.64	41.82	Strong	Fract-Cont	CH		45.04	45.05	40	CT	28.3	45.04	CG		82.1	82.2	FRA	CP	4		55	56	26548	0.0025	0.0025	0.0025	45	93	
337.24	346.79	MSED		Metasediment	6	124.1	-70.1		41.64	41.82	Strong	Fract-Cont	SI		55.48	55.92	52	SHZ	45.04	46.15	FG		100.1	100.2	FRA	PY	4		62	63	26549	0.0025	0.0025	0.0025	65	17	
335.46	337.24	MVOL		Mafic Volcanic	9	124.2	-69.9		62.03	62.84	Strong	Fract-Cont	SI		62.03	62.84	57	SHZ	46.15	77.21	M		119.6	119.6	FRA	CP	9				26550	0.0025	0.0025	0.0025	91	295	
318.17	335.46	MSED		Metasediment	12	124.3	-69.8		62.03	62.84	Strong	Fract-Cont	BT		66.65	66.66	7	FR	46.15	77.21	CG		126.1	126.9	BLB-DISS	PY	2		82	83	26551	0.0025	0.0025	0.0025	27	70	
306.34	318.17	GAB		Gabbro	15	124.3	-69.7		76.36	76.66	Strong	Pervasive	A		93.56	93.65	80	SHZ	77.21	80.1	MG		195.9	195.2	BLB	CP	6		65.53	69.56	26552	0.0025	0.0025	0.0025	127	295	
306.52	306.84	MS		Massive sulphide	16	124.4	-69.7		88.53	89.56	Strong	Pervasive	CH		102.5	103.15	3	FR	80.1	107.07	M		195.9	195.2	BLB	PO	8		69.58	90.63	26553	0.0025	0.0025	0.0025	28	25	
303.52	306.52	GAB		Gabbro	21	124.6	-69.4		95.62	95.75	Moderate	Patchy	CH		106.7	107.07	25	FZ	80.1	107.07	CG		227.4	227.4	BLB	CP	4		93.5	94	26554	0.0025	0.0025	0.0025	39	4	
302.7	303.52	MS		Massive sulphide	24	124.9	-69.7		95.62	95.75	Strong	Patchy	SI		171.91	171.92	30	CT	107.07	115.15	M		236.2	236.4	FRA	PO	2		94	94.5	26555	0.0025	0.0025	0.0025	63	3	
271.37	302.7	GAB		Gabbro	27	125	-69.8		192	193.49	Weak	Pervasive	CH		192	192.5	40	FOL	107.07	115.15	CG		236.2	236.4	FRA	CP	2		96.5	97	26556	0.0025	0.0025	0.0025	65	67	
270.5	271.37	MD		Mafic Dyke	30	125	-69.6		192	193.49	Weak	Pervasive	BT		193	193.5	30	FR	115.15	126.1	M		240.6	240.7	BLB-DISS	CP	2		105.5	107.5	26557	0.0025	0.0025	0.0025	275	125	
235.43	270.5	GAB		Gabbro	33	125	-69.7		192	193.49	Strong	Pervasive	SI		2	3.5	226.5	40	VEIN	115.15	126.1	CG		270.5	271.3	DISS	PY	4		119	120	26558	0.0025	0.0025	0.0025	209	454
226.5	235.43	MD		Mafic Dyke	36	125.2	-69.7		200	207.2	Moderate	Patchy	SI	weak to	2	8.7	218.75	57	VEIN	126.1	126.9	FG		271.3	299	BLB-DISS	CP	1		126	127	26559	0.0025	0.0025	0.0025	63	132
213.5	226.5	GAB		Gabbro	39	125.3	-69.4		236	236.43	Strong	Pervasive	SI	strong	226.5	235.43	40	FOL	128.9	171.91	M		271.3	299	BLB-DISS	PO	1.5				26560	0.0025	0.0025	0.0025	4	8	
190.81	213.5	MD		Mafic Dyke	42	125.4	-69.5		236	236.43	Strong	Pervasive	SI	locally	236	236.23	55	FOL	128.9	171.91	CG		299	302.7	BLB-DISS	CP	4		192	193	26561	0.031	0.0025	0.0025	171	64	
174.51	190.81	PXE		Metaproxenite	45	125.5	-69.6		211.4	211.55	Moderate	Pervasive	E	E all?	236.23	236.43	65	VEIN	171.91	174.51	FG		299	302.7	BLB-DISS	PO	15		193	194	26562	0.0025	0.0025	0.0025	64	163	
171.91	174.51	MD		Mafic Dyke	48	125.5	-69.4		211.4	211.55	Strong	Pervasive	SI		252.3	255.55	45	FZ	174.51	190.81	M		302.7	303.5	BLB	CP	4		194	195	26563	0.016	0.007	0.0025	42	213	
128.9	171.91	PXE		Metaproxenite	51	125.6	-69.4		213.76	214.05	Moderate	Pervasive	BT		256.62	256.62	25	VEIN	174.51	190.81	CG		302.7	303.5	MASS	PO	66		195	195	26564	0.0025	0.0025	0.0025	32	296	
126.1	128.9	MD		Mafic Dyke	54	125.9	-69.4		213.76	214.05	Strong	Pervasive	SI		265.57	265.71	30	VEIN	190.81	213.5	FG	FG-MG	303.5	308.5	BLB-DISS	CP	1.5		196	197	26565	0.0025	0.00375	0.02	39	460	
115.15	126.1	GAB		Gabbro	57	126	-69.5		217.85	217.95	Strong	Pervasive	SI		276.4	276.5	43	F	213.5	226.5	M		303.5	308.5	BLB-DISS	PO	5		201	202	26566	0.0025	0.0025	0.0025	36	136	
107.07	115.15	PXE		Metaproxenite	60	126	-69.3		219.8	219.85	Moderate	Fract-Cont	BT		289.86	289.89	85	SHZ	213.5	226.5	MG		306.5	308.8	BLB	CP	2		202	203	26567	0.0025	0.0025	0.0025	36	147	
80.1	107.07	GAB		Gabbro	63	126	-69.4		225.5	232.58	Moderate	Pervasive	SI	weak to	291.29	291.31	90	SHZ	226.5	235.43	FG		306.5	308.8	MASS	PO	93		203	204	26568	0.0025	0.0025	0.0025	37	171	
77.21	80.1	MSED		Metasediment	66	126.1	-69.4		300.96	301.1	Strong	Pervasive	SI	strong	300.96	301.1	67	VEIN	236.43	270.5	M		318.1	325.6	SW	CP	10		204	205	26569	0.0025	0.0025	0.0025	34	167	
46.15	77.21	GAB		Gabbro	69	126.2	-69.3		322.04	325.2	Strong	Pervasive	SI	locally	322.04	325.2	37	FZ	235.43	270.5	MG	MG-CG	318.1	325.6	SW	PO	15				26570	0.3945	4.8215	0.215	1340	1330	
45.04	46.15	MD		Mafic Dyke	72	126.3	-69.4		229.27	229.58	Moderate	Patchy	BT		337.24	346.79	62	FOL	270.5	271.37	FG		320.5	322	DISS	MT	4		205	205	26571	0.0025	0.0025	0.0025	37	113	
28.3	45.04	GAB		Gabbro	75	126.4	-69.4		229.27	229.58	Strong	Pervasive	CH		348.95	354	85	FOL	271.37	302.7	M		325.6	325.9	SMASS	CP	10		206	207	26572	0.0025	0.0025	0.0025	36	191	
0	28.3	CAS		Casing	78	126.5	-69.5		229.27	229.58	Strong	Pervasive	SI						271.37	302.7	MG	MG-CG	325.6	325.9	SMASS	PO	38		207	208	26573	0.0025	0.0025	0.0025	40	239	
					81	126.7	-69.3		235.43	270.5	Weak	Fract-Cont	SI						302.7	303.52	M		325.9	331.7	SW	CP	10		213.5	214.5	26574	0.015	0.006	0.0025	72	145	
					84	126.9	-69.3		251.98	255.55	Moderate	Fract-Cont	CH						303.52	306.52	MG		325.9	331.7	SW	PO	15		217	218	26575	0.007	0.0086	0.0025	51	146	
					87	127	-69.3		251.98	255.55	Strong	Fract-Cont	SI						306.52	306.84	M							218	219	26576	0.0025	0.0025	0.0025	37	41		
					90	127	-69.3		251.98	252.3	Strong	Pervasive	K	K-feldspar					306.84	318.17	MG							219	220	26577	0.0025	0.0025	0.0025	44	90		
					93	127	-69.4		271.37	302.7	Moderate	Patchy	SI						318.17	335.46	MG							227.2	227.7	26578	0.0025	0.0025	0.0025	46	208		
					96	127	-69.2		287.1	287.8	Strong	Pervasive	SI						335.46	337.24	FG							229	230	26579	0.0025	0.0025	0.0025	54	106		
					99	127.2	-69.2		291.79	294.15	Strong	Pervasive	CH						337.24	346.79	MG									230	231	26580	0.0025	0.0025	0.0025	5	9
					102	127.3	-69.3		294.15	300.52	Moderate	Pervasive	CH						346.79	348.86	FG							230	231	26581	0.012	0.01	0.0025	45	293		
					105	127.3	-69.3		303.52	306.52	Weak	Pervasive	CH						348.95	354	MG							236	236.5	26582	0.0025	0.0025	0.0025	80	129		

Start Date: 28/Jan/08

Hole: HN-08-62

Southampton Ventures Inc.

Nothing: 6648568

Depth: 168 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303361

Elevation: 255.230m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -44.6

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
154.08	157	PEL		Metapelite	0	124	-44.6		46.5	47.62	Strong	Pervasive	SI	"dark bluish, qtz/potassi	29.08	44	55	VEIN	29.06	32.82	FG		32.82	34	DISS	ILM	0.5		33	34	24633	0.008	0.03	0.0025	58	338
153	154.08	MVOL		Mafic Volcanic	3	123.6	-44.5								29.07	44	45	FR	32.82	34	MG/CG		44	47.62	DISS	MT	0.25		43.75	44.5	24634	0.0025	0.0025	0.0025	132	222
149.7	153	PSAM		Meta-Psammite	6	123.3	-44.9								29.07	44	35	VEIN	34	40.5	FG		44	47.62	DISS	CP	1		54	55	24635	0.0025	0.0025	0.0025	214	802
148.88	149.7	MVOL		Mafic Volcanic	9	123.1	-45								44	47.62	50	VEIN	40.5	40.9	FG		47.62	64.8	DISS	PY	1		55	56	24636	0.01	0.008	0.0025	69	124
139.13	148.88	PEL		Metapelite	12	123.1	-44.9								44	44.26	0	FR	40.5	40.9	MG/CG		57.9	58.2	BLB	SPH	1		56	57	24637	0.0025	0.0025	0.0025	25	437
128.23	139.13	QTZE		Quartzite	15	123.3	-44.8		47.62	64.8	Strong	Pervasive	SI		47.62	64.8	60	VEIN	44	47.62	YFG		65.8	65.97	FRA	PY	3		57	57.5	24638	0.0025	0.018	0.009	95	1700
104	107.13	PSAM		Meta-Psammite	16	123.6	-45		64.8	65.97	Moderate	Pervasive	SI		47.63	64.8	30	VEIN	47.62	64.8	MG		65.97	77.37	DISS	PY	1		57.5	58	24639	0.0025	0.028	0.017	258	939
103.8	104	MS		Massive Sulphide	21	123.7	-45		101.92	103.8	Moderate	Fract-Cont	CA		64.8	65.97	57	VEIN	62.86	64.47	BC		77.37	86.5	DISS	PO	1				24640	0.3785	3.7765	0.2095	1490	1510
125.07	128.23	MVOL		Mafic Volcanic	24	123.6	-45		108.57	113	Weak	Pervasive	SI		65.97	77.37	55	VEIN	64.8	65.97	FG		77.37	86.5	DISS	PY	2		58	58.5	24641	0.013	0.023	0.013	153	1970
120.5	125.07	PEL		Metapelite	27	123.7	-44.9		113.79	114.2	Strong	Fract-Cont	CA	associated with qtz vein	65.97	77.37	40	FR					86.5	92.2	BLB-DISS	PY	5		58.5	59	24642	0.0025	0.0025	0.0025	249	480
113	120.5	MVOL		Mafic Volcanic	30	123.8	-44.8								77.37	92.2	45	FR	65.97	77.37	MG/CG		86.5	92.2	BLB-DISS	CP	3		59	60	24643	0.0025	0.0025	0.0025	225	148
108.57	113	QTZE		Quartzite	33	123.9	-44.8								101.92	103.8	55	VEIN	77.37	82.2	MG		86.5	92.2	BLB-DISS	PO	9		60	61	24644	0.0025	0.0025	0.0025	200	140
108	108.57	MS		Massive Sulphide	36	124	-44.8		120.5	125.07	Weak	Pervasive	SI		101.93	103.8	30	VEIN	84.27	85.05	BC		99.25	101.9		CP	2		61	62	24645	0.01	0.025	0.0025	122	104
107.36	108	PSAM		Meta-Psammite	39	124.1	-44.8		125.07	128.23	Moderate	Fract-Cont	CA	small yellow veinlets, same orientation as foliation	104	107.13	5	FOL	99.25	101.82	FG		99.25	101.9		PO	60		62	64	24646	0.0025	0.0025	0.0025	116	151
107.13	107.36	MS		Massive Sulphide	42	124.1	-44.8								107.13	107.36	60	FOL	101.92	103.8	FG		101.9	103.8	FRA	CP	4		64	65	24647	0.01	0.015	0.0025	154	274
101.92	103.8	PSAM		Meta-Psammite	45	124.2	-44.8								107.36	103	55	FOL	103.8	104	FG		101.9	103.8	FRA	PO	3		65	66	24648	0.0025	0.0025	0.015	71	374
99.25	101.92	MS		Massive Sulphide	48	124.3	-44.8								108.57	113	57	FOL	104	107.13	FG		103.8	104	MASS	CP	7		66	68	24649	0.01	0.017	0.009	188	236
92.2	99.25	MD		Mafic Dyke	51	124.3	-44.8								113	120.5	55	FOL	107.13	107.36	FG		103.8	104	MASS	PO	60				24650	0.116	0.154	0.051	20950	8500
77.37	92.2	GAB		Gabbro	54	124.4	-44.8								120.5	120.5	75	VEIN	107.36	106	FG		104	105.4	DISS	MT	2		68	70	24651	0.01	0.03	0.007	452	314
85.97	77.37	MGAB		mega-gabbro, var. meta	57	124.4	-44.7		132.7	133.9	Weak	Fract-Cont	CA	yellow-orange	120.5	125.07	60	FOL	108	106.57	FG		106.2	107.1	ST	CP	3		70	72	24652	0.013	0.024	0.011	343	490
64.8	65.97	QTZE		Quartzite	60	124.4	-44.7								125.07	128.23	75	FOL	108.57	113	FG		106.2	107.1	ST	PO	7		72	74	24653	0.01	0.056	0.0025	635	286
47.62	64.8	QGAB		Qtz bearing gabbro	63	124.4	-44.7		132.7	133.9	Strong	Fract-Cont	A	Hb some	128.23	139.13	55	FOL	113	110.5	FG		106.2	107.1	ST	PY	15		74	76	24654	0.0025	0.031	0.012	208	254
44	47.62	D/A		Diabase	66	124.4	-44.7								139.13	148.88	60	FOL	120.5	125.07	MG		107.1	107.3	SMASS	CP	4		76	78	24655	0.0025	0.0025	0.0025	174	314
29.06	44	GAB		Gabbro	69	124.4	-44.7								148.88	149.7	50	FOL	125.07	128.23	FG		107.1	107.3	SMASS	PO	55		78	80	24656	0.0025	0.0025	0.0025	107	409
0	29.06	CAS		Casing	72	124.4	-44.7		146	148.88	Moderate	Fract-Cont	CA	up to 2% foliat on	149.7	153	45	VEIN	128.23	139.13	FG		107.3	108	BLB	CP	3		80	81	24657	0.0025	0.047	0.022	444	1140
					75	124.4	-44.7								153	154.08	53	FOL	139.13	146	MG/CG		107.3	108	ST	PO	10		81	82	24658	0.036	0.104	0.068	774	3530
					78	124.4	-44.6								154.08	157	60	FOL	146	146.88	FG		108	108.5	BLB	PY	2		82	83	24659	0.015	0.102	0.064	758	4360
					81	124.5	-44.6		148.88	149.05	Strong	Fract-Cont	A						148.88	149.7	FG/MG		108	108.5	BLB	CP	2				24660	0.0025	0.0025	0.0025	14	63
					84	124.5	-44.6		149.7	153	Weak	Fract-Cont	E						149.7	153	FG		108	108.5	SMASS	PO	70		83	84	24661	0.005	0.099	0.061	801	3340
					87	124.5	-44.6		149.7	153	Moderate	Fract-Cont	CA						153	154.08	FG/MG		108.5	113	DISS	PO	0.5		84	85.5	24662	0.003	0.092	0.026	818	2140
					90	124.5	-44.6								153	153.46			154.08	157	FG/MG		108.5	113	DISS	CP	1		85.5	86.5	24663	0.053	0.168	0.1145	1140	4340
					93	124.5	-44.6								153	154.08							108.5	113	DISS	PY	1		86.5	87.5	24664	0.039	0.093	0.168	1090	6400
					96	124.6	-44.6																108.8	108.9	SMASS	PO	55		87.5	88	24665	0.095	0.298	0.255	2700	15450
					99	124.6	-44.5	Page: 1 of 3	153	153.46	Moderate	Fract-Cont	E										113	120.5	FRA	PY	1		88	89	24666	0.06	0.113	0.148	2210	6250
					102	124.6	-44.5		153	153.46	Strong	Pervasive	K										113	120.5	DISS	MT	1.5		89	90	24667	0.065	0.165	0.063	1250	2690
					105	124.7	-44.5		155.08	155.19	Strong	Pervasive	A										128.2	139.1	DISS	PY	1		90	91.5	24668	0.057	0.099	0.045	934	1640

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Start Date: 28/Jan/08

Hole: HN-08-62

Southampton Ventures Inc.

Northing: 5648568

Depth: 158 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303361

Elevation: 255.230m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -44.6

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
	106				124.7	-44.5																138.1	148.8	DISS	PY	1		91.5	92.5	24689	0.038	0.108	0.095	925	2250
	111				124.7	-44.5																148.8	148.7	DISS	MT	0.25				24670	0.395	3.8445	0.2225	1430	1320
	114				124.8	-44.4																						92.5	94	24671	0.014	0.0025	0.012	55	135
	117				124.9	-44.3																						94	96	24672	0.033	0.01	0.005	44.5	157
	120				124.9	-44.3																						96	98	24673	0.0025	0.0025	0.0025	50	212
	123				124.9	-44.3																						98	99	24674	0.0025	0.039	0.0025	307	3750
	126				125	-44.2	MAG (nT): 56730																					99	99.5	24675	0.0025	0.038	0.0025	2660	8090
	129				125.1	-44.1																						99.5	100	24676	0.0025	0.114	0.079	5230	15600
	132				125.1	-44.1																						100	100.5	24677	0.0025	0.1	0.061	4040	20200
	135				125.2	-44.1																						100.5	101	24678	0.0025	0.114	0.129	3140	9760
	136				125.3	-44																						101	101.5	24679	0.0025	0.232	0.075	6460	18000
	141				125.4	-44																								24680	0.0025	0.0025	0.0025	34	112
	144				125.3	-43.9																						101.5	102	24681	0.059	0.354	0.112	5020	13900
	150				125.4	-43.9																						102	103	24682	0.0025	0.0025	0.0025	315	613
																												103	103.5	24683	0.0025	0.0025	0.058	109	3460
																												103.5	104	24684	0.108	0.306	0.064	4660	7130
																												104	104.5	24685	0.0025	0.0025	0.0025	241	2250
																												104.5	105.5	24686	0.0025	0.0025	0.0025	145	823
																												105.5	106	24687	0.0025	0.0025	0.0025	26	65
																												106	106.5	24688	0.01	0.043	0.01	608	4600
																												106.5	107	24689	0.044	0.053	0.037	1293	4620
																														24690	0.4075	3.7585	0.208	1270	1260
																												107	107.5	24691	0.048	0.15	0.051	3440	3100
																												107.5	108	24692	0.0025	0.0025	0.03	351	3510
																												108	108.5	24693	0.014	0.303	0.019	8100	2540
																												108.5	109	24694	0.014	0.626	0.145	2270	3810
																												109	110	24695	0.0255	0.0485	0.2065	174	4460
																												110	111	24696	0.009	0.026	0.11	104	3990
																												111	112	24697	0.0025	0.0025	0.0025	16	353
																												112	113	24698	0.0025	0.0025	0.0025	6	74
																												113	114.5	24699	0.0025	0.0025	0.0025	57	147
																														24700	0.1	0.139	0.045	21200	7870
																												114.5	115	24701	0.0025	0.0025	0.0025	30	268
																												116	118	24702	0.0025	0.0025	0.0025	38	95
																												118	120	24703	0.0025	0.0025	0.0025	41	99
																												120	122	24704	0.0025	0.0025	0.0025	14	36

Start Date: 28/Jan/06

Hole: HN-08-63

Southampton Ventures Inc.

Nothing: 6648669

Depth: 171 m

Completed Date: 30/Jan/06

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903360

Elevation: 255 271 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -70

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
158.54	172.34	SSH		Metased-Schists	1	124	-70.7	41.23	42.04	Moderate	Fract-Cont	SI		23.3	41.23	60	VEIN	23.3	40.9	FG/IMG		23.3	41.23	DISS	PY	0.5	associated	23.75	24.25	24494	0.0025	0.0025	0.0025	7	8
157.05	158.54	MVOL		Mafic Volcanic	4	123.9	-70.8	41.23	42.04	Weak	Patchy	BT		41.23	42.04	63	FOL	40.9	41.23	VFG							with white	35.5	37	24496	0.0025	0.0025	0.0025	11	6
150.24	157.05	PSAM		Meta-Psammite	7	123.7	-70.9	62.38	64.22	Strong	Pervasive	SI	gives	42.04	42.83	50	FOL	41.23	42.04	FG/IMG	looks like lense						veinlets	60	61	24496	0.0025	0.0025	0.0025	62	211
146	150.24	MVOL		Mafic Volcanic	10	123.5	-70.8					SI	dark blue	42.04	42.83	61	VEIN				of same	42.04	42.83	DISS	MT	2	up to 2mm	71	72.5	24497	0.0025	0.0025	0.0025	30	653
144.34	148	PSAM		Meta-Psammite	13	123.5	-70.7	65.84	70.34	Moderate	Pervasive	SI		42.83	53.4	49	FOL				composition						size	72.5	73.5	24498	0.0025	0.0025	0.0025	35	3940
142.73	144.34	MVOL		Mafic Volcanic	16	123.4	-70.7	75	85	Moderate	Pervasive	SI	less	53.4	65.84	60	FOL				dyke but older.	53.4	65.84	DISS	PY	1	associated	73.5	74.5	24499	0.0025	0.0025	0.0025	36	792
141.14	142.73	SSH		Metased-Schists	19	123.5	-70.8					SI	altered	65.84	70.34	55	FOL	42.04	42.83	FG	finer at contacts.						with white	74.5	75.5	24500	0.0025	0.0025	0.0025	37	9940
135	141.14	PSAM		Meta-Psammite	22	123.7	-70.5					SI	toward	70.34	75	45	VEIN	42.83	53.4	MG							veinlets	74.5	75.5	24501	0.0025	0.0025	0.0025	91	1230
128.04	136	MD		Mafic Dyke	25	123.8	-70.3					SI	contact	74.88	75	54	VEIN	53.4	54	VFG		70.34	75	FRA	CP	0.5	observed	93	95	24502	0.0025	0.0025	0.0025	318	634
126.17	128.04	PSAM		Meta-Psammite	28	123.8	-70.1					SI	with PXE	75	82.54	50	FR	54	65.84	FG							with Cp	95	96	24503	0.0025	0.0025	0.0025	117	50
122.74	126.17	MGAB		meagabro, var. meta	31	124	-69.9	85.06	87.34	Strong	Pervasive	SI	darker	75	82.54	50	FOL	58.36	59.16	BC							and Vice	96	97	24504	0.0025	0.0025	0.0025	79	65
109.08	122.74	MD		Mafic Dyke	34	124.2	-69.7					SI	green	75.01	82.54	5	FR	61.9	65.7	BC							versa	97	98	24505	0.0025	0.0025	0.0025	70	88
101.47	109.08	MGAB		meagabro, var. meta	37	124.3	-69.4					SI	colour to	85	95.35	45	VEIN	65.84	70.34	MG		70.34	75	FRA	PO	0.5	observed	98	99	24506	0.0025	0.0025	0.0025	133	528
95.35	101.47	GAB		Gabbro	40	124.4	-69.2					SI	core	92.84	95.35		SHZ	65.84	67.15	FG/IMG							with Cp	99	100	24507	0.0025	0.0025	0.0025	72	174
85	95.35	PXE		metaproxenite	43	124.2	-68.9	125.1	125.9	Moderate	Pervasive	SI	darish	95.35	101.47	45	VEIN	67.9	70.34	BC							and Vice	100	101	24508	0.0025	0.0025	0.0025	69	133
75	85	GAB		Gabbro	46	124.9	-68.6					SI	blue colour	101.47	109.08	55	VEIN	70.34	75	FG	sandstone						versa	101	102	24509	0.0025	0.0025	0.0025	510	1240
70.34	75	PSAM		Meta-Psammite	49	125.1	-68.5	128.04	128.5	Moderate	Fract-Cont	SI		109.08	122.74	55	VEIN	75	82.54	MG/CG		70.34	75	Vein	PY	1	diss to vein			24510	0.0025	0.0025	0.0025	13	30
65.84	70.34	GAB		Gabbro	52	125.2	-68.4	142.73	144.34	Moderate	Fract-Cont	CA		109.08	122.74	55	FOL	85	95.35	MG/CG		74.88	75	Vein	PY	10		102	103.5	24511	0.0025	0.104	0.012	741	1930
53.4	65.84	MD		Mafic Dyke	55	125.3	-68.4	148	150.24	Weak	Fract-Cont	CA	imped	122.74	126.17	55	FOL	88.08	90	BC		75	82.54	DISS	CP	1		103.5	104.5	24512	0.043	0.147	0.045	1840	2420
42.83	53.4	GAB		Gabbro	58	125.4	-68.3					SI	with oiz.	128.17	128.04	55	FOL	95.35	101.47	M		75	82.54	DISS	PY	1		104.5	108	24513	0.017	0.09	0.0025	1040	1280
42.04	42.83	MD		Mafic Dyke	61	125.4	-68.1	150.24	157.05	Weak	Patchy	A	appear as	128.04	136	40	VEIN	95.35	101.47	MG/CG		85	95.35	FRA	PY	1	associated	106	107.5	24514	0.017	0.127	0.093	942	2970
41.23	42.04	MD		Mafic Dyke	64	125.4	-68.1					SI	layers	128.04	136	54	FOL	101.47	109.08	M							with	107.5	109	24515	0.0025	0.0025	0.0025	702	1340
23.3	41.23	MD		Mafic Dyke	67	125.2	-68	157.05	158.54	Strong	Fract-Cont	A		136	141.14	42	LAY	101.47	109.08	MG/CG							veinlets	109	111	24516	0.0025	0.0025	0.0025	79	173
0	23.3	CAS		Casing	70	125.1	-68.1					SI		137.4	137.5	52	VEIN	109.08	110.5	FG							and shear	111	112.5	24517	0.0025	0.0025	0.0025	47	240
					73	125.1	-68.1					SI		141.14	142.73	60	FOL	110.5	122.74	FG/IMG							zone	112.5	114	24518	0.0025	0.0025	0.0025	42	186
					76	125.1	-68.1					SI		142.73	144.34	56	FOL	122.74	128.17	MG		95.35	101.4	DISS	ILM	1		114	116	24519	0.0025	0.0025	0.0025	46	200
					79	125.1	-68.1					SI		144.34	148	60	FOL	126.17	128.04	FG		95.35	101.4	DISS	PY	0.5		116	118	24520	0.0025	0.0025	0.0025	1790	1770
					82	125.2	-68					SI		148	150.24	55	FOL	128.04	129.5	FG		101.4	109.0	DISS	PY	2		118	118	24521	0.0025	0.0025	0.0025	38	152
					85	125.2	-68					SI		150.24	157.05	57	FOL	129.5	133.5	FG/IMG		104	104.3	FRA	CP	1		118	120	24522	0.0025	0.0025	0.0025	38	179
					88	125.2	-67.9					SI		157.05	158.54	55	FOL	133.5	136	FG		104	104.3	FRA	PO	2		120	122	24523	0.011	0.02	0.0025	67	375
					91	125.3	-67.9					SI		158.54	172.34	60	FOL	136	141.14	FG	sandstone	109.0	122.7	DISS	MT		Weakly	122	123	24524	0.027	0.04	0.013	400	815
					94	125.3	-67.8					SI						141.14	142.73	FG/IMG							Magnetic	123	125	24525	0.072	0.117	0.076	1230	2580
					97	125.2	-67.7					SI						142.73	144.34	FG							(variable)	125	125	24526	0.207	0.092	0.054	1311	2575
					100	125.3	-67.7					SI						144.34	148	FG	Sandstone	109.0	122.7		CP	0.5		126	127	24527	0.008	0.073	0.064	1220	3300
					103	125.3	-67.7					SI						148	150.24	MG		109.0	122.7		PO	0.5		127	127.5	24528	0.052	0.119	0.067	2080	4650
					106	125.3	-67.6					SI						150.24	157.05	FG		109.0	122.7		PY	1		127.5	128	24529	0.076	0.121	0.147	673	5070

Start Date: 28/Jan/08

Hole: HN-08-63

Southampton Ventures Inc.

Nothing: 6648569

Depth: 171 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903360

Elevation: 255.271m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
	109				129.2	-67.5												157.05	158.54	FG				121.5	122.5	DISS	MT	3				24530	0.0025	0.0025	0.0025	34	113
	112				129.2	-67.5												158.54	172.34	FG				122.7	126.1	BLB-DISS	CP	0.5		128	129.5	24531	0.043	0.034	0.197	675	12300
	115				129.3	-67.4																	122.7	126.1	BLB-DISS	PO	1		128.5	129	24532	0.0025	0.0025	0.138	536	6750	
	118				129.3	-67.3																	122.7	126.1	BLB-DISS	PY	2		129	129.5	24533	0.0025	0.011	0.0025	272	5520	
	121				129.3	-67.4																	126.1	128.0	FRA	CP	0.5		128.5	131	24534	0.0025	0.084	0.0025	66	152	
	124				129.4	-67.5																	126.1	128.0	FRA	PY	2		131	132	24535	0.011	0.007	0.0025	68	75	
	127				129.4	-67.5																some along veins	132	134	24536	0.008	0.02	0.0025	170	913							
	130				129.5	-67.4																	134	134.5	24537	0.016	0.063	0.055	706	14700							
	133				129.4	-67.4																	128.0	129.5	FRA	CP	1		134.5	135	24538	0.0025	0.0025	0.012	120	979	
	136				129.5	-67.4																	128.0	129.5	FRA	PO	2		136	137	24539	0.033	0.071	0.202	1490	13900	
	139				129.6	-67.2																	128.0	129.5	SW	PY	3				24540	0.5	7.91	0.462	1820	1800	
	142				129.7	-67.3																	133.5	138	FRA	CP	3		137	137.5	24541	0.038	0.082	0.169	308	5420	
	145				129.7	-67.1																	133.5	138	SW	PO	4		137.5	138.5	24542	0.0185	0.0535	0.144	658	6900	
	148				129.7	-67.1																also along fractures	133.5	138	SW	PY	2		138.5	139.5	24543	0.054	0.087	0.322	132.5	7407.5	
	151				129.8	-67																	139.5	140.5	24544	0.047	0.101	0.428	149	6910							
	154				129.8	-67																	136	141.1	DISS	MT	3		140.5	142	24545	0.027	0.032	0.111	56	2270	
	157				129.9	-66.9																also diss	136	137.5	FRA	CP	3		142	143	24546	0.0025	0.0025	0.0025	21	54	
	160				129.9	-66.9																also diss	136	137.5	FRA	PY	3		143	144	24547	0.0025	0.0025	0.0025	48	424	
	166				129.8	-66.8																also diss	136	137.5	FRA	PO	4		144	145	24548	0.0025	0.0025	0.0025	18	331	
																							137.5	141.1	DISS	CP	100		145	147	24549	0.0025	0.0025	0.0025	3	8	
																							137.5	141.1	DISS	PO	1				24550	0.109	0.147	0.06	22200	8120	
																							137.5	141.1	DISS	PY	1		147	148	24551	0.0025	0.0025	0.0025	25	395	
																							141.1	141.4	DISS	MT	3		148	150	24552	0.0025	0.0025	0.0025	52	145	
																							143.8	144.2	DISS	MT	2		150	152	24553	0.0025	0.0025	0.0025	30	60	
																							143.8	144.2	DISS	PY	1		152	154	24554	0.0025	0.0025	0.0025	7	34	
																							143.8	144.2	DISS	PO	0.5		154	155	24555	0.0025	0.0025	0.0025	31	84	
																							150.2	157.0	DISS	PY	0.5		155	156	24556	0.0025	0.0025	0.0025	20	91	
																							158.5	172.3	DISS	PY	1		156	158	24557	0.0025	0.0025	0.0025	38	79	
																							158	159	24558	0.0025	0.0025	0.0025	16	90							
																							164	165	24559	0.0025	0.0025	0.0025	8	22							
																								165	167	24560	0.0025	0.0025	0.0025	2	3						
																								165	167	24561	0.0025	0.0025	0.0025	17	122						
																															29490	0.4985	7.9685	0.4945	1790	1720	

Start Date: 28/Jan/08

Hole: HN-08-69

Southampton Ventures Inc.

Nothing: 6648532

Depth: 126 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303337

Elevation: 255.286m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -45

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
	3				124	-45.5		36.9	50.25	Strong	Pervasive	CH	locally moderate					36.9	44	MG	locally FG/MG	36.9	50.25	DISS	PY			39.7	40.2	30431	0.0025	0.0025	0.0385	43	12					
								37.7	38.2	Weak	Patchy	K						37.7	38.2	BC		41.85	42.45					41.85	42.45	30432	0.029	0.026	0.057	64	93					
								43	45.8	Weak	Patchy	K						43	45.8	BC		46.7	47.3					46.7	47.3	30433	0.014	0.008	0.035	32	113					
								38.7	40.1	Strong	Patchy	SI						44	47	FG		48	48.6					48	48.6	30434	0.0025	0.0025	0.02	32	107					
								45.9	50.25	Moderate	Fract-Cont	SI	small 1mm qtz veins					47	47.9	FG/MG		49.5	50.25					49.5	50.25	30435	0.022	0.025	0.028	174	33					
								47.9	49	Weak	Pervasive	CH						47.9	49	FG		50.25	51					50.25	51	30436	0.017	0.024	0.023	111	76					
								49	50.25	Moderate	Fract-Cont	SI	Qtz vein					49	50.25	MG/CG		57	57.8					57	57.8	30437	0.016	0.011	0.032	54	954					
								48	48.1	Strong	Fract-Cont	SI						49	49.5	BC																				
								48.1	48.5	Moderate	Fract-Cont	CA						50.25	54.2	FG	possible dyke																			
								49.3	50.25	Moderate	Patchy	K						50.25	51	BC																				
								50.25	54.2	Weak	Pervasive	CH						53.9	54.2	BC																				
								60.1	61.9					60.1	61.9	65	FOL	54.2	60.1	FG/MG	Bt-psammite	60.1	61.9	DISS	CP			61	62	30438	0.0025	0.0025	0.04	75	1090					
																		60.1	61.9	MG/CG	Bt-Chl psammite; minor Ath																			
								61.9	64	Weak	Fract-Cont	SI						61.9	62.3	VFG		61.9	71.35	DISS	PY			67	68	30439	0.0025	0.0025	0.008	61	199					
								61.9	71.35	Weak	Pervasive	CH						61.9	62.3	CM		71.35	77.3	DISS	PY															
								63	63.5	Weak	Fract-Cont	CA						61.9	71.35	M		71.35	77.3	DISS	CP															
								71.35	77.8	Moderate	Pervasive	CH						62.3	64.5	FG		77.3	77.8	DISS	CP	4														
								71.35	77.3	Weak	Pervasive	CH						64.5	65.6	MG		77.3	77.8	DISS	PY	3														
								77.8	79.35	Strong	Pervasive	CH						65.6	67.1	FG		77.8	79.35	DISS	PO															
								79.35	80.15	Moderate	Pervasive	CH						67.1	67.25	VFG	'small dyke	77.8	79.35	DISS	CP	1														
								80.15	82.55	Moderate	Pervasive	CH							67.1	67.25	VFG	'small dyke sharp contact'	79.35	80.15	DISS	PO														
								87.6	87.8	Weak	Pervasive	CH							67.25	69.85	FG/MG		79.35	80.15	DISS	CP	1													
																		67.25	69	FG		80.15	82.55	DISS	MT															
																		69.85	71.35	CM		80.15	82.55	DISS	CP	1														
																		69.85	71.35	VFG	FG, gradually VFG"	81.69	81.73	MASS	PO	90														
																			71.35	77.8	M		82.55	82.7	MASS	PO	99													
																		71.35	72.8	POIK	1-2 cm Px with incl. about 10% of unit"	82.7	86	BLB	PO	7														
																			82.7	86	BLB		82.7	86	BLB	CP	3													
																			82.7	86	DISS		82.7	86	DISS	MT	1													
																			71.35	77.3	MG/CG	MG matrix, larger Px	86	86.25	DISS	MT	2													
																			75.5	76.1	POIK	5% of unit	86	86.25	MASS	PO	80													

Start Date: 28/Jan/08

Hole: HN-08-70

Southampton Ventures Inc.

Nothing: 6648633

Depth: 138 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903335

Elevation: 255 269m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -71.5

Logged By: Iandry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
136.95	139	PEL		Metapelite	0	124	-71.5	32.3	42	Strong	Pervasive	SI		34.43	34.46	45	VEIN	32.3	35.48	CG		32.3	42	FRA	PY	0.5	associated	34	35	27683	0.009	0.019	0.0025	127	38	
134.45	135.95	MSED		Metasediment	3	123.8	-71.1						silicification	37.55	37.58	90	VEIN	35.48	39.53	MG/CG							with SI	38	39	27684	0.018	0.017	0.0025	103	20	
133.85	134.45	PEL		Metapelite	6	123.6	-70.7						n	37.63	37.68	40	VEIN	39.53	42	FG/IMG							fractures	39	40	27685	0.014	0.018	0.0025	66	82	
133.6	133.85	MVOL		Mafic Volcanic	9	123.7	-70.4						throughout	39.74	39.74	30	FR	42	42.1	CM		42	44.5	DISS	PY	0.5	associated	40	41	27686	0.007	0.011	0.0025	102	85	
129.3	133.6	PEL		Metapelite	12	124	-70.3						unit	41.1	41.2	22	VEIN	42.1	42.75	VFG						with SI	41	42	27687	0.012	0.019	0.0025	108	102		
126.35	129.3	PSAM		Mela-Psammite	15	124.3	-70.5	33.8	34.47	Strong	Patchy	CH		43.35	43.35	30	FR	42.75	44.15	FG						fractures	42	43	27688	0.0025	0.012	0.008	54	347		
122.7	126.35	MSED		Metasediment	16	124.6	-70.8	34.43	34.46	Strong	Fract-Cont	SI	K and	43.75	43.8	28	FR	44.15	44.5	VFG		48.75	49.83	FRA	PY	0.05	trace	43	44	27689	0.012	0.012	0.0025	48	126	
122.08	122.7	MD		Mafic Dyke	21	124.8	-70.8						Qtz vein	45.05	45.3	75	VEIN	44.5	48.2	CG		50.85	64.45	DISS	MT	5	varies from			27690	0.5125	7.927	0.48	1730	1610	
120.9	122.08	MSED		Metasediment	24	124.9	-70.8						2.5m wide	45.17	45.25	26	FR	48.2	48.75	BLO						0 to 5 %	44	45	27691	0.021	0.02	0.0025	100	227		
118.98	120.9	MD		Mafic Dyke	27	125.1	-71	34.43	34.46	Strong	Fract-Cont	K	k and qtz	48.75	48.75	60	CT	48.75	48.95	CM						gradually	45	46	27692	0.0155	0.016	0.0025	127	35		
118.82	118.98	MS		Massive Sulphide	30	125.2	-70.9						vein	52	52.05	39	FR	48.95	49.8	FG						changing	49	49.83	27693	0.0025	0.0025	0.0025	56	159		
117.58	118.82	MD		Mafic Dyke	33	125.3	-70.8						2.5m wide	52.75	53	10	FR	49.8	49.83	CM						back and	51	52	27694	0.0025	0.008	0.0025	39	123		
117.5	117.58	MS		Massive Sulphide	36	125.5	-70.6	39	39.1	Moderate	Pervasive	CH		57.6	57.67	40	FR	49.83	50.85	CG						forth	52	53	27695	0.0025	0.01	0.0025	36	104		
115.9	117.5	MSED		Metasediment	39	125.5	-70.3	39	39.1	Weak	Patchy	K		58.48	58.5	90	VEIN	50.85	50.85	CM						throughout	53	54	27696	0.007	0.017	0.0025	43	184		
114.8	115.9	MGAB		Mafic Metagab	42	125.7	-70.1	39.36	39.52	Weak	Patchy	K		62.17	62.24	36	FR	50.88	53.05	CG						dyke	54	55	27697	0.007	0.015	0.0025	37	89		
114.5	114.8	LC		Lost Core	45	125.9	-69.9	39.36	39.52	Moderate	Pervasive	CH		63.95	64	29	FR	53.05	61.55	MG/CG								55	56	27698	0.011	0.018	0.0025	37	87	
97.9	114.5	MGAB		Mafic Metagab	48	125.9	-69.7	39.52	42	Moderate	Fract-Cont	K	many	68.36	68.43	25	FR	61.55	64	FG		53.03	63.25	FRA	PY	1		56	57	27699	0.017	0.017	0.0025	53	165	
94.7	97.9	GAB		Gabbro	51	126	-69.6						small	70.4	71.75	48	FOL	64	64.45	VFG								57	58	27700	0.101	0.151	0.055	21000	8960	
89.4	94.7	MGAB		Mafic Metagab	54	126.1	-69.3						(mm	74.31	74.45	53	VEIN	64.45	70.4	CG		68.22	69.58	DISS	PY	3	interval	57	58	27701	0.014	0.012	0.0025	56	124	
44.5	48.75	GAB		Gabbro	57	126.3	-69.2						scale)	74.92	74.98	25	FR	70.4	73.92	CG						contains	58	59	27702	0.033	0.019	0.0025	43	162		
42	44.5	MD		Mafic Dyke	60	126.4	-69.2						fractures	77.75	77.8	30	FR	73.92	74.12	FG						many mm	59	60	27703	0.017	0.013	0.0025	42	130		
88.95	89.4	PXE		Pyroxenite	63	126.5	-68.9						have K	78.11	83.8	28	FR	74.15	74.8	CG						scale SI	60	61	27704	0.021	0.0185	0.0025	44	103		
88.6	88.95	MGAB		Mafic Metagab	66	126.6	-68.9						with the	81.21	81.25	40	FR										fractures	61	62	27705	0.018	0.02	0.0025	44	111	
85.2	88.6	LGAB		Leuco/Anorthic Gab	69	126.8	-68.9						Qtz	94	94.15	20	FR	74.8	75.95	M		70.4	75.95	FRA	PY	0.5	PY	62	63	27706	0.035	0.029	0.007	45	111	
83.8	85.2	GAB		Gabbro	72	126.9	-68.8	39.52	42	Strong	Fract-Cont	SI	many	94.7	94.7	43	CT										associated	63	63.5	27707	0.009	0.015	0.0025	50	340	
78.11	83.8	MSED		Metasediment	75	127.1	-68.8						small	97.9	111.3	70	FR										with SI	63.5	64.45	27708	0.019	0.022	0.013	60	1360	
75.95	78.11	GAB		Gabbro	78	127.2	-68.8						(mm	97.9	97.9	65	CT										fractures	69	70	27709	0.031	0.063	0.027	385	1470	
70.4	75.95	MSED		Metasediment	81	127.3	-68.7						scale) SI	112.07	112.15	67	FR	75.95	76.4	CG		75.95	76.11	FRA	PY	0.5	associated			27710	0.0025	0.0025	0.0025	1	5	
64.45	70.4	LGAB		Leuco/Anorthic Gab	84	127.5	-68.7						fractures	114.2	114.35	50	VEIN	76.4	77.9	M							with SI	70	71	27711	0.025	0.048	0.011	182	389	
50.85	64.45	DD		Diabase Dyke	87	127.5	-68.9	41	42	Moderate	Patchy	K	small	115.85	115.86	60	STRI										fractures	71	72	27712	0.025	0.021	0.005	13	44	
49.83	50.85	GAB		Gabbro	90	127.6	-68.8						spots of K	116.1	116.25	50	STRI	77.9	78	BLO		78.11	83.8	FRA	PO	0.5		72	73	27713	0.02	0.018	0.009	17	294	
48.75	49.83	MD		Mafic Dyke	93	127.7	-68.7	42	44.5	Weak	Fract-Cont	K	2 K filled	117.5	117.5	65	CT	78	78.11	M							silicification	73	74	27714	0.023	0.026	0.012	36	339	
32.3	42	GAB		Gabbro	96	127.8	-68.7						fractures	120.7	120.75	40	FR										wiped out texture	74	75	27715	0.008	0.006	0.01	101	531	
0	32.3	CAS		Casing	99	127.8	-68.8	42	44.5	Strong	Fract-Cont	SI	many	126.35	129.3	65	FOL	78.11	83.8	CG		84.8	85.2	FRA	PY	0.5		75	76	27716	0.009	0.01	0.005	152	126	
					102	127.7	-68.7						mm scale	129.3	133.6	35	FOL	79	80.35	BLO		88.95	89.4	DISS	PY	0.05	trace	76	77	27717	0.0025	0.0025	0.005	119	227	
					105	127.9	-68.8						fractures	133.5	133.85	64	LAY	83.8	85.2	CG									77	78	27718	0.007	0.007	0.006	115	22

Start Date: 28/Jan/08

Hole: HN-08-70

Southampton Ventures Inc.

Nothing: 6648533

Depth: 138 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903335

Elevation: 255.269m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -71.5

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
108	128				128.2	-68.6		42	44.5	Strong	Pervasive	SI	silicified	133.85	134.45	25	FOL	85.2	88.6	CG		89.4	94.7	FRA	CP	0.05	associated	78	79	27719	0.01	0.01	0.008	41	291		
111	128.2				128.2	-68.6		44.5	45.4	Strong	Fract-Cont	SI		135.95	139	80	FOL	86.5	87.2	BLO							with SI	7720	0.5075	7.984	0.5015	1810	1720				
114	128.4				128.4	-68.6		44.5	45.4	Strong	Pervasive	CH						87.2	88.6	CG						filled	79	80	27721	0.01	0.01	0.011	19	161			
117	128.7				128.7	-68.6		45.4	48.75	Moderate	Fract-Cont	SI						88.5	88.95	MG/CG						fractures	80	81	27722	0.0025	0.0025	0.009	20	547			
123	129.2				129.2	-68.2		45.4	48.75	Moderate	Fract-Cont	K						89.4	93.9	CG						and patches	81	82	27723	0.03	0.03	0.02	142	1920			
								45.4	48.75	Strong	Patchy	SI						93.9	94.7	MG/CG		89.4	94.7	FRA	PY	0.5	associated	82	83	27724	0.02	0.02	0.01	67	263		
								45.4	48.75	Moderate	Patchy	K						94.7	95.4	MG/CG						with SI	83	84	27725	0.0025	0.0025	0.007	101	690			
								45.4	45.48	Strong	Fract-Cont	K	K and quartz filled					95.4	97.9	CG						filled	84	85	27726	0.0025	0.0025	0.0025	77	212			
								48.75	48.9	Weak	Patchy	K						98.95	105.45	CG						and patches	90	91	27727	0.0025	0.0235	0.0065	435	279			
								48.75	49.83	Strong	Fract-Cont	SI						105.45	108.1	BLO		94.7	97.9	FRA	CP	0.5		91	92	27729	0.06	0.06	0.01	324	835		
								48.75	49.83	Strong	Pervasive	SI	highly silicified					108.1	111.75	CG		94.7	97.9	FRA	PY	1			92	93	27730	0.0025	0.0025	0.0025	178	80	
								49.83	50.85	Weak	Fract-Cont	SI						111.75	112.75	MG/CG		97.9	111.3	BLB-DISS	PY	5	along	92	93	27731	0.075	0.075	0.022	415	1190		
								49.83	50.45	Weak	Patchy	BT						112.75	114.35	CG						fracture	93	94	27732	0.051	0.051	0.007	146	360			
								49.83	50.45	Weak	Patchy	BT						114.35	114.5	FG						planes as	94	95	27733	0.012	0.036	0.044	82	133			
								50.45	50.85	Moderate	Patchy	K						114.8	115.55	FG						well	95	96	27734	0.008	0.062	0.041	101	282			
								50.45	50.85	Moderate	Patchy	K						115.55	115.9	CG		97.9	111.3	DISS	CP	3	along	96	97	27735	0.011	0.074	0.031	176	899		
								50.45	50.85	Strong	Pervasive	SI	*appears "bleached"					115.9	117.45	MG/CG						fracture	97	98	27736	0.008	0.043	0.044	191	844			
																		117.5	117.58	M						planes as	98	99	27737	0.011	0.064	0.045	364	832			
																		117.58	117.75	VFG						well	99	100	27738	0.032	0.121	0.048	1000	1430			
								50.85	64.45	Moderate	Fract-Cont	K	mm wide fractures filled with K if not SI					117.75	118.82	FG		97.9	111.3	BLB-DISS	PO	20	along	100	101	27739	0.02	0.062	0.068	895	1590		
																		118.82	118.98	M						fracture	101	102	27740	0.5065	7.9735	0.501	1760	1680			
																		118.98	119.5	FG						planes as	101	102	27741	0.028	0.105	0.032	862	1090			
																		119.5	120.65	M						well	102	103	27742	0.039	0.074	0.047	834	1940			
								50.85	64.45	Strong	Fract-Cont	SI	mm wide fractures abundant					120.65	120.85	FG									103	104	27743	0.047	0.097	0.069	823	5090	
																		120.85	120.9	CM		111.3	114.3	DISS	CP	5			104	105	27744	0.042	0.125	0.033	1183.5	3409.5	
																		120.9	122.08	CG	anthrophyllite, large crd (altered), bl'						some more blebs than stringers	105	106	27745	0.0685	0.1315	0.028	1250	2150		
								53.03	61.45	Moderate	Patchy	CH						122.08	122.16	CM									106	107	27746	0.032	0.091	0.064	1060	1870	
								61.15	61.35	Weak	Fract-Cont	GOE						122.16	122.65	VFG		113.7	114	SWASS	PY	60			107	108	27747	0.025	0.058	0.04	774	1440	
								61.15	61.35	Strong	Fract-Cont	CH	broken core here highly chloritized					122.65	122.7	CM										108	109	27748	0.032	0.081	0.033	1380	3340
																		122.7	124	CG	ord, bt, anthrophyllite'		114	114.3	ST	PY	30			109	110	27749	0.026	0.067	0.04	1050	2590
																		122.7	124	CG			115.5	115.9	ST	PY	15			110	111	27751	0.025	0.076	0.026	1520	3560
																		124	124.6	FG/MG									110	111	27752	0.058	0.107	0.08	2170	6990	
																											and blebs too	111	112	27753	0.041	0.072	0.165	1970	9540		
																													112	113	27754	0.038	0.185	0.313	2470	7540	

Start Date: 28/Jan/08

Hole: HN-08-70

Southampton Ventures Inc.

Nothing: 6648533

Depth: 138 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903335

Elevation: 255.269m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -71.5

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
								64.45	70.4	Strong	Fract-Cont	CH	most of the fracture planes show chloritization					124.6	128.35	CG	crd, magnetite, anthophyllite	115.9 117.4 DISS	PO	15			114	115	27755	0.04	0.076	0.15	1270	2720			
																						115.9 117.4 DISS	PY	10			115	115	27756	0.055	0.099	0.08	833	5050			
																						118.1 118.2 ST	PY	30			116	117	27757	0.049	0.0855	0.0485	1470	4380			
																						126.35 126.45 FG	PO	20			117	117.5	27758	0.053	0.036	0.065	440	6780			
																						126.45 126.75 CG	PY	2			117.5	118	27759	0.043	0.371	0.159	4960	7810			
																						126.75 128.35 MG/CG	PO	93					27760	0.0025	0.0025	0.0025	6	13			
								64.45	70.4	Weak	Fract-Cont	K	min scale fractures with K on fracture plane									117.5 118.8 FRA	CP	1			118	118.5	27761	0.04	0.181	0.128	503	3190			
																						117.5 118.8 FRA	PY	1			118.5	119	27762	0.056	0.37	0.139	6919	4512.5			
																						(<10cm each of st)	118.8 118.9 MASS	PO	95		119	120	27763	0.057	0.098	0.091	1020	4910			
																						118.9 120.9 DISS	CP	5			120	120.5	27764	0.072	0.105	0.136	144	1710			
																						128.35 129 CG	PY	10			120.5	121	27765	0.047	0.06	0.278	370	4550			
																						129 129.3 FG/MG	PO	15			121	122	27766	0.042	0.107	0.249	889	8950			
								64.45	70.4	Strong	Fract-Cont	SI										129.3 133.3 CG	PY	90			122	123	27767	0.027	0.021	0.067	169	2480			
								64.45	70.4	Strong	Pervasive	SI										120.9 122.0 DISS	MT	7			123	124	27768	0.02	0.111	0.036	55	155			
								64.7	64.78	Strong	Fract-Cont	K	vein with qtz									120.9 122.0 DISS	CP	15			124	125	27769	0.015	0.011	0.022	47	475			
																						120.9 122.0 ST	PY	5					27770	0.502	7.9145	0.4965	1880	1750			
								68.13	68.26	Strong	Patchy	BT	pegmatic BT and quartz patch									120.9 122.0 DISS	PO	10			125	126	27771	0.016	0.0115	0.0105	51	241			
																						120.9 122.0 ST	PO	5			126	127	27772	0.015	0.008	0.008	69	256			
																						133.6 133.85 FG/MG	PY	10			127	128	27773	0.014	0.006	0.008	82	294			
																						133.85 134.45 FG/MG	PY	10			127	128	27773	0.015	0.006	0.008	82	294			
																						122.0 122.7 FRA	PY	1			128	129	27774	0.019	0.008	0.011	56	337			
								70.4	75.8	Strong	Fract-Cont	SI										122.7 128.3 DISS	PY	2			129	130	27775	0.024	0.011	0.045	63	1260			
								70.4	71.75	Strong	Pervasive	SI	very silicified									122.7 128.3 DISS	MT	10			130	131	27776	0.016	0.008	0.016	31	455			
																						126.3 129.3 DISS	PY	5			131	132	27777	0.017	0.008	0.013	13	141			
								70.4	75.95	Moderate	Patchy	CH										128.3 129.3 DISS	MT	7			132	133	27778	0.008	0.01	0.075	21	73			
								70.6	70.95	Moderate	Fract-Cont	A	along foliat on									129.3 133.6 DISS	PY	1			133	134	27779	0.017	0.009	0.005	9	24			
																						129.3 133.6 DISS	CP	1					27780	0.0025	0.0025	0.0025	0.5	4			
								71.75	75	Moderate	Pervasive	SI										133.6 133.8 DISS	PY	1			134	135	27781	0.012	0.01	0.005	75	89			
								74.4	74.8	Moderate	Fract-Cont	A	very SI fractured interval very silicified									134.4 135.9 DISS	PY	1			135	136	27782	0.01	0.021	0.013	360	1280			
																						133.6 133.8 DISS	PY	1			136	137	27783	0.0025	0.0025	0.0025	12	79			
								75	75.95	Strong	Pervasive	SI										134.4 135.3 FRA	CP	0.5			137	138	27784	0.0025	0.0025	0.0025	12	45			
																						134.4 135.3 FRA	PO	1													
								75.95	78.11	Strong	Pervasive	CH										135.9 138 DISS	PY	3													
								76.4	78.11	Strong	Fract-Cont	SI																									

Start Date: 28/Jan/08

Hole: HN-08-71

Southampton Ventures Inc.

Nothing: 6646513

Depth: 144 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303270

Elevation: 254.669m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
0					0	124	-70		30.1	36	Strong	Pervasive	CH	"up to 32.6 is strongest, concentrated at fractures"					30.1	36	CG		36.85	36.95	DISS	PY	0.01	only two visible grains	36.55	37.1	27068	0.016	0.01	0.013	69	160				
									36	44.7	Strong	Pervasive	CH	"although pervasive, CH alteration visible/strongest at fractures"					36	44.7	MG/CG	mainly coarse grained at contact with next MD is porphyritic? for 2-3 cm	44.7	45.3	DISS	PO	1	few magnetic grains	44.7	45.28	27069	0.008	0.0025	0.012	55	303				
														45.3	45.3	50	CT					45.48	46.2	DISS	PY	0.05														
														46.4	46.4	50	CT					46.2	46.4	CM																
									46.4	53.7	Strong	Pervasive	CH						46.4	53.7	MG/CG	"small intervals of medium grained felsic crystals, pyroxenes coarse"	50	50.55	FRA	PY	0.05													
														53.7	53.7	45	CT					53.7	54.03	CM		53.7	62.15	DISS	PY	1	throughout whole									
														53.7	62.15	Weak	Fract-Cont	CA					54.03	54.7	VFG															
														57.8	58.3	Strong	Pervasive	SI					54.7	61.2	PHAN															
														58.3	62.15	Moderate	Patchy	SI																						
														62.15	65.25	Strong	Pervasive	SI	very strong silicification of whole unit					61.2	62.05	VFG														
														62.15	65.25	Strong	Pervasive	CH					62.05	62.15	CM															
																							62.15	62.55	FG															
																							65.4	100.3	DISS	PY	0.05													
																							72	73.5	DISS	PO	0.05													

Start Date: 28/Jan/08

Hole: HN-08-71

Southampton Ventures Inc.

Nothing: 6646513

Depth: 144 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303270

Elevation: 254.669m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
								62.55	64.3	Moderate	Pervasive	BT	moderate to strong					62.15	62.4	MG		104	105	DISS	PY	0.05													
								65.4	101.4	Moderate	Fract-Cont	CA						62.55	64.3	MG/CG	sheared and altered																		
								72	101.4	Strong	Patchy	SI						64.3	64.75	MG	pyroxenes																		
								96	96.5	Moderate	Patchy	E						64.75	65.2	FG/MG	coarser																		
								101.4	102.7	Strong	Pervasive	CH	this is also a sheared interval					64.75	65.2	FG/MG	end of this interval has a quartz vein between the leuco gabbro and the contact with mafic dyke																		
								102.7	105.75	Moderate	Pervasive	CH																											
																			65.4	71.46	APH																		
																			65.4	65.9	CM																		
																			65.9	66.5	VFG																		
																			72	100.35	PHAN	equigranular mafics; feldspar matrix <10%																	
																			100.35	101.05	VFG																		
																			101.05	101.4	CM																		
																			101.4	102.7	BLC	very sheared and altered at contact with diabase dyke																	
																			102.7	105	CG																		
															105	105.75	55	FOL	105	105.75	MG	foliated at contact with psammite																	
								105.75	107	Moderate	Pervasive	CH							105.75	112.51	MG		105.7	112.5	DISS	PY	0.5												
								107	108	Strong	Fract-Cont	CH							112.55	114.1	CG	anthophyllite,	105.7	112.5	DISS	CP	1												
								108	112.51	Strong	Fract-Cont	SI							112.5	114.1	DISS	cordierite, biotite	112.5	114.1	DISS	PY	0.5	<1%											
112.55	114.1	PEL		Metapelite				108	112.51	Moderate	Pervasive	CH						114.1	115.4	VFG		112.5	114.1	BLB-DISS	PO	3													

Start Date: 28/Jan/08

Hole: HN-08-72

Southampton Ventures Inc.

Nothing: 6648562

Depth: 228 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903195

Elevation: 253.980 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -60

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	PL_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
226.2	226.45	MVOL		Mafic Volcanic	8	124	-60.1		29.5	35.2	Moderate	Pervasive	CH		29.5	35.2	65	FOL	29.5	35.2	FG/IMG		29.5	32	BLB-DISS	CP	2		29.5	30.5	30282	0.0025	0.0025	0.0025	31	66
224.95	226.2	MD		Mafic Dyke	9	124.4	-60.6		29.5	35.2	Strong	Patchy	SI		57.15	57.4	45	CT	35.2	42.2	M		29.5	35.2	BLB-DISS	PO	4		30.5	31	30283	0.0025	0.0025	0.018	837	11360
220	222.3	PEL		Metapelite	12	124.2	-60.7		34.7	34.9	Moderate	Patchy	K		103.15	103.2	50	CT	35.2	42.2	FG/IMG		33	35	DISS	PY	1	diss and	31	32	30284	0.0025	0.0025	0.025	590	5390
227.9	228	MVOL		Mafic Volcanic	15	123.3	-60.2		34.7	34.9	Strong	Pervasive	BT		111.9	111.9	50	CT	39	39.35	BC		32	33	30285	0.0025	0.0025	0.073	180	1500						
212.95	220	PSAM		Meta-Psammite	16	122.1	-59.4		35.2	42.2	Moderate	Pervasive	CH		112.1	112.1	25	CT	42.2	63.1	FG/IMG	altered Px, may have originaly been locally CG"	76.4	79	DISS	MT		33	34	30286	0.0025	0.0025	0.047	568	1800	
210.95	212.05	MS		Massive Sulphide	21	121	-58.5		35.2	42.2	Moderate	Patchy	SI		113.8	113.8	50	CT					34	34.7	30287	0.0025	0.0025	0.0025	39	158						
210	210.95	PSAM		Meta-Psammite	24	120.1	-58.2		42.2	63.1	Strong	Pervasive	CH		130.8	130.7	50	DYKE					34.7	35.25	30288	0.0025	0.0025	0.0025	78	163						
226.45	227.9	PSAM		Meta-Psammite	27	119.1	-58.2		54.5	58.75	Weak	Patchy	SI		150.9	162	40	FOL					37	37.7	30289	0.0025	0.0025	0.0025	373	721						
224.3	224.95	MVOL		Mafic Volcanic	30	118.3	-58.7		57.15	57.4	Strong	Pervasive	SI		177.8	177.85	40	CT	63.1	76.4	M		113.8	118.9	DISS	PO		55.5	56.1	30291	0.0025	0.0025	0.0025	351	3570	
222.3	224.3	PSAM		Meta-Psammite	33	118.1	-59		63.1	76.4	Weak	Patchy	SI		177.85	183.3	50	FOL	63.1	76.4	FG/IMG	local CG Px	117.3	117.7	DISS	PO		63	64	30292	0.0025	0.0025	0.0025	93	278	
212.05	212.95	PEL		Metapelite	36	118.1	-59		63.1	76.4	Strong	Pervasive	CH		194.4	194.4	45	CT	64	69	BC		64	65	30293	0.0025	0.0025	0.0025	62	306						
208.7	210	MS		Massive Sulphide	39	118.1	-58.9		72	73	Weak	Fract-Cont	CA		222.3	223.8	75	FOL	76.4	90.55	M		134.5	135.2	DISS	PO	1	64	65	30293	0.0025	0.0025	0.0025	62	306	
208.05	208.7	PSAM		Meta-Psammite	42	118.2	-58.7		76.4	90.55	Moderate	Pervasive	CH		224.95	226.2	20	FR	76.4	90.55	MG/CG		137	137.4	Vein	PY		77.5	78.5	30294	0.0025	0.0025	0.0025	196	7	
207.15	208.05	MS		Massive Sulphide	45	118.2	-58.6		90.55	103.15	Weak	Fract-Cont	CH	small mm size veins	224.95	226.2	75	VEIN	90.55	103.15	M		103.8	104.4	30295	0.0025	0.0025	0.0025	45	129						
204.3	207.15	MSED		Metasediment	48	118.2	-58.5							224.95	225	85	CT	90.55	103.15	MG/CG	local CG px, 10%"	137	137.4	Vein	PO		114	115	30296	0.0025	0.0025	0.0025	49	224		
194.4	204.3	MD		Mafic Dyke	51	118.4	-58.3																117.3	117.9	30297	0.0025	0.0025	0.0025	76	322						
192	194.4	MGAB		Mafic Metagab	54	118.6	-58.3		90.55	103.15	Moderate	Pervasive	CH					96.85	97.15	BC		160.8	162	DISS	CP		130.5	131.4	30298	0.0025	0.0025	0.0025	73	229		
189.8	192	PXE		Pyroxenite	57	118.7	-58.2		103.15	107.95	Weak	Pervasive	CH					103.15	105	FG		162	163.5	Vein	PY	1	134.7	135.4	30299	0.0025	0.0025	0.0025	48	162		
188.55	189.8	MGAB		Mafic Metagab	60	118.7	-58		106	106.55	Moderate	Patchy	SI					103.15	103.45	YFG		162	163.5	Vein	PO	1	155	155.6	30300	0.0025	0.137	0.052	24500	8110		
183.3	188.55	GAB		Gabbrc	63	118.7	-57.9		108.15	111.9	Weak	Pervasive	CH					103.15	103.45	CM		168	169	DISS	PY	1	137	137.7	30301	0.0025	0.0025	0.0025	64	468		
177.85	183.3	PSAM		Meta-Psammite	66	118.7	-57.7		111.9	112.1	Weak	Pervasive	CH					103.15	107.95	M		175.5	178.3	DISS	PY	1	155	155.6	30302	0.0025	0.0025	0.0025	96	291		
116.9	117.3	GAB		Gabbrc	69	118.8	-57.7		112.1	113.8	Weak	Pervasive	CH					105	107.2	MG		162	162.5	30303	0.0025	0.0025	0.0025	49	244							
113.8	116.9	MD		Mafic Dyke	72	118.7	-57.6		113.8	116.9	Weak	Fract-Cont	SI					107.2	107.8	FG		162.5	163.4	30304	0.0025	0.0025	0.0025	44	164							
162	177.85	MD		Mafic Dyke	75	118.8	-57.4		113.8	116.9	Weak	Pervasive	CH					107.8	108.15	ENC		177.8	183.3	DISS	CP	1	168	169	30305	0.0025	0.0025	0.0025	46	153		
150.9	162	GAB		Gabbrc	78	118.9	-57.3		116.9	117.3	Weak	Pervasive	CH					107.8	108.15	YFG		175.5	176.3	30306	0.0025	0.0025	0.0025	50	179							
149.8	150.9	MD		Mafic Dyke	81	119.1	-57.1		117.3	117.75	Weak	Fract-Cont	SI					107.8	108.15	CM		160.3	161	30307	0.0025	0.0025	0.0025	25	152							
147.4	149.8	GAB		Gabbrc	84	119.4	-57		117.3	117.75	Weak	Pervasive	CH					108.15	111.9	M		177.8	183.3	DISS	PY	2	161	181.9	30308	0.0025	0.0025	0.0025	29	724		
134.5	147.4	MD		Mafic Dyke	87	119.4	-56.9		117.75	119.5	Weak	Pervasive	CH					108.15	111.9	MG/CG		161.9	162.8	30309	0.0025	0.0025	0.0025	66	1110							
117.75	134.5	GAB		Gabbrc	90	119.5	-56.9		116.5	134.5	Moderate	Pervasive	CH					111.9	112.1	M							162.8	163.3	30311	0.0025	0.0025	0.0025	96	1190		
117.3	117.75	MD		Mafic Dyke	93	119.5	-56.9		120	123.9	Strong	Fract-Cont	CA					111.9	112.1	YFG		177.8	183.3	DISS	PO		163.3	164	30312	0.0025	0.01	0.0025	139	341		
112.1	113.8	GAB		Gabbrc	96	119.5	-56.9		134.5	147.4	Weak	Pervasive	CH					112.1	113.8	M		183.3	184	CON	PY	2	164	165	30312	0.0025	0.0025	0.0025	96	341		
111.9	112.1	MD		Mafic Dyke	99	119.5	-56.9		137	138	Weak	Fract-Cont	SI					112.1	113.8	CG		164	165	30313	0.0025	0.0025	0.0025	86	168							
108.15	111.9	GAB		Gabbrc	102	119.6	-56.8		142.3	143.4	Moderate	Fract-Cont	CA					113.8	114	FG		191	191.3	30314	0.0025	0.044	0.0025	401	227							
103.15	108.15	MD		Mafic Dyke	105	119.7	-56.9		144.6	146.5	Weak	Fract-Cont	SI					113.8	116.9	M		191.3	192	30315	0.016	0.048	0.028	496	2050							
90.55	103.15	MGAB		Mafic Metagab	108	119.8	-57		147.4	148.6	Weak	Pervasive	CH					113.8	116.9	FG/IMG		192	193	30316												
76.4	90.55	GAB		Gabbrc	111	119.8	-57		146.6	150.9	Moderate	Pervasive	CH					116.65	116.9	FG		191	192	DISS	CP	3	193	193.8	30317	0.032	0.036	0.0025	351	346		

Start Date: 28/Jan/08

Hole: HN-08-72

Southampton Ventures Inc.

Nothing: 6648562

Depth: 228 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903195

Elevation: 253.980m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -60

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
63.1	76.4	MGAB		Mafic Metagab	114	119.9	-57		150.9	162	Weak	Pervasive	SI					116.9	117.3	M		191.3	192	DISS	PO	2		193.8	194.4	30318	0.045	0.2705	0.0025	954	795
42.2	63.1	PXE		Pyroxenite	117	119.9	-56.9		150.9	162	Weak	Pervasive	CH					116.9	117.3	CG		192	194.4	DISS	PY	0		194.4	195	30319	0.0025	0.009	0.0025	58	129
36.2	42.2	MGAB		Mafic Metagab	120	120.1	-57		152	152.4	Strong	Patchy	SI					117.3	117.75	CM	jagged irregular contacts	193.8	194.4	DISS	PO	2		195.8	196.3	30320	0.5095	7.919	0.463	1630	1590
29.5	36.2	GAB		Gabbro	123	120.2	-57		153.5	156	Moderate	Patchy	BT					117.3	117.75	M		196.7	198.3	Vein	CP	1	2 blebs (196.8 and 198.2)	195	195	30321	0.0025	0.0025	0.0025	86	162
0	29.5	CAS		Casing	126	120.3	-57		162	172	Weak	Fract-Cont	SI	local mm-sized veins				117.3	117.75	FG	VFG near contacts						196.8	196.8	30322	0.0025	0.0025	0.0025	74	81	
					129	120.4	-57.1							recrystall ized MG				117.3	117.75	FG							196.8	197.5	30323	0.0025	0.009	0.017	55	664	
					132	120.8	-57							hbl				117.3	117.75	FG		associated with local silicification					197.5	198.3	30324	0.0025	0.0025	0.0025	74	334	
					135	120.7	-57.1		162	162.4	Moderate	Pervasive	A					117.75	134.5	M		198.3	199	30325	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	53	245			
					136	120.9	-57.1											117.75	134.5	MG/CG		199	200	30326	0.0025	0.0025	0.0025	0.0025	0.0025	62	120				
					141	121	-57.1											119.65	119.85	BC		200	201	30327	0.0025	0.02	0.0025	50	80						
					144	121.2	-57.1		162	177.85	Moderate	Pervasive	CH				128	129.7	MG		201	202	30328	0.007	0.007	0.0025	33	85							
					147	121.4	-57.1		183.3	188.55	Moderate	Pervasive	CH				133.65	133.9	BC		202	202.6	30329	0.0025	0.0025	0.0025	114	218							
					150	121.5	-57.2		188.55	189.8	Weak	Patchy	SI				134.5	136.1	FG	gradual grain size changes..	202.5	204.3	DISS	CP	1	downhole	200	201	30330	0.0025	0.0025	0.0025	0.5	4	
					153	121.6	-57.2		188.55	189.8	Moderate	Pervasive	CH								202.6	203.4	30331	0.031	0.355	0.107	679	2270							
					156	121.8	-57.2		189.8	192	Strong	Pervasive	CH				134.5	134.9	VFG		203.4	204.3	30332	0.021	0.078	0.0025	1480	4380							
					159	121.9	-57.1		192	194.4	Moderate	Pervasive	CH				134.5	134.9	CM		204.3	204.8	ST	PO	5	altered zone in this Bt	204.3	204.8	30333	0.033	0.147	0.018	2860	6700	
					162	122.1	-57.1		194.4	204.3	Weak	Pervasive	CH				134.5	147.4	M		204.3	205.2	DISS	CP	1	+ local stringer	204.8	205.4	30334	0.0025	0.189	0.01	4310	3410	
					165	122.4	-57		195.5	198.5	Weak	Fract-Cont	SI				136.1	147.4	FG	VFG near chill margin	205.4	205.9	30335	0.011	0.162	0.065	4793.5	12408.5							
					168	122.6	-56.9		202.55	204.3	Strong	Pervasive	BT								204.3	205.2	BLB-DISS	PO	10		205.4	205.9	30336	0.0025	0.0025	0.071	197	2120	
					171	122.9	-56.7		204.3	207.15	Weak	Patchy	BT				136.1	145.5	MG		205.2	205.9	DISS	PY	1		205.6	207.2	30337	0.0025	0.044	0.159	2560	34600	
					174	123.1	-56.5		204.3	207.15	Moderate	Patchy	CH				147.4	149.6	M		207.2	207.7	30338	0.024	0.192	0.11	7710	9620							
					177	123.4	-56.2		206	208.2	Moderate	Fract-Cont	SI				147.4	149.6	MG/CG		205.2	205.9	SMASS	PO	40		207.2	208.2	30339	0.0025	0.256	0.018	7070	1760	
					180	123.5	-56.1		206	224.95	Moderate	Fract-Cont	SI				149.6	149.8	ENC		206	206.5	DISS	PO	5		207.7	208.2	30340	0.516	7.923	0.5065	1640	1440	
					183	123.7	-56		224.3	224.95	Strong	Pervasive	CH				149.6	150.9	VFG		206	208.2	Vein	CP	5	Cp	208.2	208.7	30341	0.011	0.07	0.024	818	3820	
					185	123.7	-56.8		224.95	226.2	Weak	Fract-Cont	CA				149.9	150.2	FG		208.2	208.7	30342	0.031	0.2005	0.0655	6120	14800							
					189	123.8	-55.7		224.95	226.2	Moderate	Fract-Cont	SI				150.9	162	M	local weak fol	205.4	210	30343	0.0025	0.0025	0.0025	6620	18200							
					192	124	-55.6		224.95	226.2	Strong	Pervasive	CH				150.9	156.2	FG/MG		206.6	207.1	BLB-DISS	PO	15		210.4	210.9	30344	0.005	0.399	0.312	6400	29300	
					195	124.1	-55.4		226.2	226.45	Strong	Pervasive	CH	gradually weaker towards PSAM				158.2	162	MG		206.6	207.1	BLB-DISS	CP	10		210.9	211.4	30345	0.141	0.442	0.59	8600	18200
					196	124.4	-55.3										162	177.85	M		207.1	208.0	DISS	PY	1		211.4	212.0	30346	0.046	0.349	0.261	8450	19600	
					201	124.7	-55.2										162	163.4	FG	equigranular, MG-Hbl at contact	207.1	208.0	DISS	CP	2		212.0	212.6	30347	0.0025	0.0025	0.104	1700	35700	
					204	124.9	-55														207.1	208.0	MASS	PO	85		212.6	213.3	30348	0.0025	0.0025	0.0025	208	866	
					207	125.1	-54.9		227.9	228	Moderate	Fract-Cont	SI								208.0	208.7	DISS	CP	3		213.3	214	30349	0.0025	0.0025	0.0025	21	131	
					210	125.2	-54.9		227.9	228	Strong	Pervasive	CH				163.4	166.5	MG	equigranular, gradual change	208.0	208.7	ST	PO	5		214	215	30350	0.098	0.139	0.054	19300	9290	
					213	125.4	-54.8														208.7	210	BLB	CP	5		214	215	30351	0.0025	0.0025	0.0025	14	24	
					216	125.6	-54.7														208.7	210	MASS	PO	85		215	216	30352	0.0025	0.0025	0.0025	17	19	
					219	125.7	-54.6														210	210.9	BLB	CP	5		216	217	30353	0.0025	0.0025	0.0025	16	17	

Start Date: 28/Jan/08

Hole: HN-08-73

Southampton Ventures Inc.

Nothing: 6648562

Depth: 255 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303195

Elevation: 254.038 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -70.4

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
242.23	243.26	MVOL		Mafic Volcanic	0	124	-70.4		29.6	57.44	Weak	Fract-Cont	SI		29.6	57.44	52	FR	29.6	57.44	MG/CC		49.58	51	INT	MT	5		49.5	51	24716	0.028	0.022	0.0025	555	105
242.03	242.23	QV		Quartz Vein	3	122.9	-69.3		46.58	51	Strong	Pervasive	SI	associated	29.6	57.44	60	FOL	57.44	66	MG		95.43	105.0	Vein	PY	2	associated	96	97	24717	0.0025	0.0025	0.0025	36	153
231.89	232.82	QV		Quartz Vein	6	122.4	-69.3						with Mt	57.44	86	55	VEIN	64.5	66	BC	slight						with felsic	97	98	24718	0.026	0.026	0.0025	40	169	
243.75	255	SSH		Melased-Schists	9	122.1	-69.2	64	86	Moderate	Fract-Cont	CA		57.44	86	55	FR	67.37	74	BC	very						veinlets.	98	99	24719	0.0025	0.0025	0.0025	42	107	
243.38	243.75	MVOL		Mafic Volcanic	12	122.3	-69.1	64	86	Strong	Fract-Cont	SI	associated	64	86		FZ	78.16	78.68	BC		117.9	119.3	FRA	PY	1		24720	0.513	7.9695	0.508	1580	1800			
243.26	243.38	QV		Quartz Vein	15	122.6	-69.2						with Ca	95.43	105.08	46	VEIN	77.3	78.15	BC		124	125.5	FRA	PY	2	associated	99	100	24721	0.0025	0.0025	0.0025	46	149	
241.25	242.03	MVOL		Mafic Volcanic	16	122.9	-69.7	98.2	99.36	Moderate	Pervasive	SI	pale green	95.43	105.08	57	FOL	95.43	105.08	FG/IMG							with felsic	100	102	24722	0.013	0.024	0.0025	47	239	
232.82	241.25	PEL		Metapelite	21	123.4	-70.6	100.49	100.68	Moderate	Pervasive	SI	sale	105.08	117.94	52	VEIN	105.08	117.94	M							veins	102	104	24723	0.012	0.02	0.0025	40	105	
230.67	231.89	MSED		Metasediment	24	123.6	-71						green gray	117.94	119.37	30	VEIN	117.94	119.37	FG/IMG		130.2	130.3	Vein	PY	2		104	105	24724	0.032	0.023	0.0025	47	87	
228.81	230.67	MVOL		Mafic Volcanic	27	123.5	-70.7	119.37	124	Weak	Fract-Cont	CA		117.94	119.37	50	FOL	119.37	124	M	very weakly	151.0	195	FRA	CP	0.5		118	119	24725	0.0025	0.0025	0.0025	58	374	
227.3	228.81	PSAM		Meta-Psammite	30	123.5	-70.2	125.59	136	Weak	Fract-Cont	CA	veinlets	119.37	124	30	VEIN	119.37	124	BC	foliatec	151.0	195	FRA	PY	1	associated	116	119	24726	0.0025	0.0025	0.0025	122	49	
226.21	227.3	MS		Massive Sulphide	33	123.6	-69.7	125.59	136	Moderate	Pervasive	SR	light green	119.37	124	43	FR	119.37	124	MG							with felsic	134	135	24727	0.0025	0.0025	0.0025	76	16	
224.14	226.21	PSAM		Meta-Psammite	36	123.6	-69.5	125.59	136	Moderate	Pervasive	SI	along	124	125.59	47	FOL	124	125.59	FG/IMG							veinlets.	135	136	24728	0.0025	0.0025	0.0025	102	16	
223.61	224.14	MS		Massive Sulphide	39	123.8	-69.4						veinlets	125.59	135	45	VEIN	125.59	135	MG		195	199.6	BLB	PY	0.5		136	137	24729	0.0025	0.0025	0.0025	143	85	
220.78	223.61	PSAM		Meta-Psammite	42	123.9	-69.3	136	144	Weak	Fract-Cont	K	slightly	130.29	130.39	30	VEIN	136	137	BC		195	199.6	BLB	CP	0.5		136	137	24730	0.0025	0.0025	0.0025	6	1	
220.29	220.78	MS		Massive Sulphide	45	124.1	-69.2						pink	135	142		FZ	136	144	MG		204.6	212.5	DISS	MT	0.25	'variable,	137	138	24731	0.0025	0.0025	0.0025	159	82	
214.53	220.29	QITZE		Quartzite	48	124.2	-69	136	145.8	Strong	Fract-Cont	CA	fault zone	151.06	185	55	FOL	139	142	BC							weak	138	139	24732	0.0025	0.0025	0.0025	179	7	
212.5	214.53	GAB		Gabbro	51	124.2	-69.9	157.82	163.92	Strong	Pervasive	SI	'almost	151.06	185	50	VEIN	151.06	193.56	FG/IMG		204.6	212.5	DISS	PY	2		139	140.5	24733	0.0025	0.026	0.0025	211	10	
204.65	212.5	PXE		metaproxenite	54	124.1	-68.8						completely	171.29	171.51	39	VEIN	193.56	195	YFG	chill margin	212.5	214.5	BLB-DISS	PO	1		140.5	142	24734	0.0025	0.0025	0.0025	184	22	
199.65	204.65	GAB		Gabbro	57	124	-68.7						replaced	195	199.65	50	FOL	195	199.65	FG/IMG		212.5	214.5	BLB-DISS	PY	1.5		142	144	24735	0.0025	0.0025	0.0025	169	55	
195	199.65	PSAM		Meta-Psammite	60	124	-68.5						rock,	199.65	202.86	59	FOL	199.65	204.3	FG/IMG		214.5	220.2	DISS	PO	0.5		144.5	145	24736	0.0025	0.0025	0.0025	98	13	
151.06	195	MD		Mafic Dyke	63	123.8	-68.4						light green"	212.5	214.53	65	FR	202.86	204.3	M	mostly	214.5	220.2	DISS	PY	1		151	151.5	24737	0.0025	0.0025	0.0025	61	313	
136	151.06	LGAB		leucogabbro, var. met	66	123.8	-68.3	169.43	170.12	Strong	Fract-Cont	SI		214.53	220.29	40	FR	204.65	212.5	M		214.5	220.2	PAT	PO	2	more	159	161	24738	0.0025	0.0025	0.0025	68	103	
125.59	136	GAB		Gabbro	69	123.7	-68.2						with Py	220.78	223.61	53	VEIN	204.65	212.5	MG/CC							intense	161	163	24739	0.0025	0.0025	0.0025	47	97	
124	125.59	MD		Mafic Dyke	72	123.6	-68.2	174.59	174.71	Strong	Fract-Cont	SI	associated	223.61	224.14	47	STRI	212.5	214.53	MG/CC							near semi	24740	0.495	7.951	0.5095	1550	1490			
119.37	124	GAB		Gabbro	75	123.6	-68.1						with py	224.14	228.21	56	FOL	214.53	220.29	FG							massive	171.2	171.7	24741	0.0025	0.0025	0.0025	97	303	
117.94	119.37	MD		Mafic Dyke	78	123.6	-68.1	177.74	177.96	Strong	Fract-Cont	SI		227.3	228.81	56	FOL	220.29	220.78	FG							sulphides	176	177	24742	0.0025	0.0025	0.0025	57	159	
105.08	117.94	MGAB		me gabbro, var. meta	81	123.6	-68	184	184.1	Strong	Fract-Cont	SI		228.81	230.67	53	VEIN	220.78	223.61	FG		220.2	220.7	ST	PY	15		193.5	194	24743	0.0025	0.0025	0.0025	170	194	
95.43	105.08	MD		Mafic Dyke	84	123.6	-67.9	195	199.65	Moderate	Patchy	SI		230.67	231.89	64	FOL	223.61	224.14	FG		220.2	220.7	SMASS	PO	45		195	196.5	24744	0.007	0.005	0.0025	81	336	
57.44	95.43	MGAB		me gabbro, var. meta	87	123.6	-67.9	199.65	201	Moderate	Patchy	BT	prominent	232.82	241.25	67	FOL	224.14	228.21	FG		220.7	223.6	BLB-DISS	CP	3		195.5	198	24745	0.014	0.007	0.019	18	251	
29.6	57.44	PXE		metaproxenite	90	123.6	-67.9						near	241.25	242.03	55	FOL	226.21	227.3	B	brecciated	198	199.5	24746	0.011	0.006	0.041	17	788							
0	29.6	CAS		Casing	93	123.7	-67.9						contact	242.23	243.26	55	FOL	226.21	227.3	FG		220.7	223.6	ST	PO	17		199.5	200.5	24747	0.015	0.028	0.031	124	1200	
					96	123.7	-67.8	199.65	201	Moderate	Pervasive	SI	prominent	243.38	243.75	56	FOL	226.21	227.3	FG		222.5	222.7	Vein	CP	3		203.5	204.5	24748	0.012	0.032	0.012	241	196	
					99	123.7	-67.8						near	243.75	255	54	FOL	227.3	228.81	BLB		223.6	224.1	BLB-DISS	CP	1		204.5	206.5	24749	0.02	0.034	0.01	426	320	
					102	123.7	-67.9						contact	228.81	230.67		FOL	228.81	230.67	YFG		223.6	224.1	BLB	PY	6		204.5	206.5	24750	0.105	0.135	0.051	21590	9430	
					105	123.8	-67.6											FOL	230.67	231.89	MG		223.6	224.1	SMASS	PO	45		205.5	207.5	24751	0.0515	0.178	0.0475	1140	1900

Start Date: 28/Jan/08

Hole: HN-08-73

Southampton Ventures Inc.

Northing: 6648662

Depth: 266 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303195

Elevation: 254.038 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -70.4

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
	106				123.9	-67.6		228.4	228.5	Weak	Fract-Cont	FP	felsic					231.89	232.82	M		224.1	228.2	ST	PY	7	along	207.5	209	24752	0.042	0.13	0.027	728	699	
	111				124.1	-67.6							vein 0.5cm					231.89	232.82	VFG		224.1	228.2	ST	PO	18	foliation	209	210	24753	0.038	0.034	0.028	657	584	
	114				124.1	-67.7		241.25	242.03	Moderate	Fract-Cont	CA	white					232.82	241.25	FG							along	210	211.5	24754	0.065	0.149	0.022	611	741.5	
	117				124.1	-67.7							veins with					241.25	242.03	VFG							foliation	211.5	212.5	24755	0.104	0.278	0.095	1610	2760	
	120				124.2	-67.6							light					242.03	242.23	M		224.1	228.2	DISS	MT	3		212.5	213.5	24756	0.051	0.119	0.06	1060	1530	
	123				124.2	-67.6							green halo					242.03	242.23	VFG		226.2	227.3	DISS	CP	4		213.5	214.3	24757	0.057	0.11	0.035	748	1280	
	126				124.3	-67.5		242.23	243.26	Moderate	Fract-Cont	CA	veinlets					242.23	243.26	VFG		226.2	227.3	BLB-DISS	PY	9		214.3	215.5	24758	0.02	0.044	0.059	250	1800	
	129				124.3	-67.4		243.75	255	Weak	Fract-Cont	CA	felsic					243.26	243.38	M		226.2	227.3	SMASS	PO	50		215.5	215	24759	0.032	0.066	0.064	565	3180	
	132				124.4	-67.5							veinlets					243.26	243.38	VFG		227.3	227.4	BLB	PO	3				24760	0.0025	0.0025	0.0025	2	15	
	135				124.5	-67.3							some Qtz					243.38	243.75	FG		227.3	227.4	Vein	CP	7		216	217	24761	0.007	0.026	0.136	300	3280	
	136				124.6	-67.3		251.85	252	Strong	Pervasive	SI						243.75	255	FG		227.3	228.8	FRA	PY	3		217	218.5	24762	0.031	0.044	0.1	409	2300	
	141				124.6	-67.3																227.3	228.8	PAT	PO	10		218.5	219.5	24763	0.027	0.074	0.055	597	2060	
	144				124.7	-67.5																227.3	228.8	ST	CP	4		219.5	220.2	24764	0.023	0.144	0.019	2150	2700	
	147				124.8	-67.2																228.3	228.7	BLB	PY	3		220.2	220.8	24765	0.052	0.305	0.0025	2300	3010	
	150				124.8	-67.1																228.3	228.7	BLB	CP	3		220.8	221.3	24766	0.016	0.058	0.024	1800	6260	
	153				124.9	-67.1																228.3	228.7	ST	PO	20		221.3	222	24767	0.005	0.046	0.0025	1310	5120	
	156				124.9	-67.1																228.8	230.6	DISS	CP	0.5		222	222.5	24768	0.071	0.08	0.011	1530	16200	
	159				124.8	-67																228.8	230.6	DISS	PY	0.5		222.5	223	24769	0.06	0.127	0.045	2790	6400	
	162				124.8	-67																232.8	241.2	DISS	PY	1				24770	0.5086	7.915	0.498	1740	1690	
	165				124.7	-67																240.7	241.0	BLB	PY			223	223.5	24771	0.013	0.038	0.0025	1190	7040	
	166				124.7	-66.9																240.7	241.0	ST	CP	5		223.5	224	24772	0.257	0.142	0.0025	3680	9230	
	171				124.7	-67																240.7	241.0	ST	PO	9		224	224.5	24773	0.022	0.162	0.0025	4310	3380	
	174				124.7	-67																243.7	255	BLB	PY	1		224.5	225	24774	0.052	0.108	0.024	3490	3250	
	177				124.7	-67																225	225.5	24775	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	2050	2710			
	180				124.8	-66.7																225.5	226	24776	0.024	0.131	0.031	0.031	0.031	0.031	0.031	2730	5500			
	183				124.9	-66.7																226	226.5	24777	0.02	0.192	0.0025	4220	6440							
	186				124.9	-66.7																225.5	227	24778	0.016	0.122	0.07	3100	18900							
	189				124.9	-66.7																227	227.5	24779	0.025	0.175	0.108	5030	23900							
	192				124.9	-66.8																									24780	0.0025	0.0025	0.0025	61	224
	195				125	-66.6																227.5	228	24781	0.025	0.043	0.053	691	4950							
	198				125.1	-66.5																228	228.5	24782	0.011	0.046	0.155	1440	9270							
	201				125.2	-66.5																228.5	229	24783	0.046	0.034	0.023	2530	3470							
	204				125.4	-66.4																229	230	24784	0.0025	0.0025	0.0025	506	377							
	207				125.5	-66.4																230	231	24785	0.0025	0.0025	0.0025	169	213							
	210				125.8	-66.3																231	231.7	24786	0.0025	0.0025	0.0025	40	20							
	213				125.9	-66.3																231.7	232.5	24787	0.0025	0.0025	0.0025	19	23							

Start Date: 28/Jan/08

Hole: HN-08-74

Southampton Ventures Inc.

Nothing: 6646617

Depth: 318 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303116

Elevation: 254.682m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -60.2

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays																
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm							
0					124	-60.2		28	40.1	Moderate	Patchy	SI						28	35.75	FG/MG																							
								28	35.57	Weak	Patchy	BT																															
								35.57	36	Moderate	Patchy	BT																															
								36	37.65	Weak	Patchy	BT		35.75	36.15	40	SHZ	35.75	36.15	FG	shear zone, pos small piece of MD (enclave?)																						
								37.65	37.9	Moderate	Patchy	BT							36.15	39.63	FG/MG																						
								37.9	40.1	Weak	Pervasive	CH							39.63	39.92	VFG	MD enclave, contact roughly along core axis"																					
								37.9	40.1	Weak	Patchy	BT		39.92	40.1	40	SHZ	39.92	40.1	FG	shear zone																						
								40.1	48.65	Moderate	Pervasive	SI							40.1	46	FG		77	83.4	DISS	PO	0.05		78	79	27379	0.0025	0.0025	0.0025	54	89							
								48.45	50.45	Moderate	Patchy	BT							46	48.65	FG/MG	"large quartz grains, primary"	77	83.4	DISS	CP	0.05																
								50.45	50.9	Strong	Pervasive	BT								48.34	48.5	MG	"enclave of gabbro?, very	83.4	83.4	CON	PY	0.5															
								50.9	52.98	Strong	Patchy	BT	moderate to strong									83.4	83.4	CON	CP	2																	
								51	52	Strong	Pervasive	CH										83.4	111.5	DISS	CP	0.05																	
								52.98	54.63	Moderate	Patchy	BT							48.65	50	VFG		83.4	111.5	DISS	PO	0.05																
								54.63	55.25	Moderate	Pervasive	CH							50	52.98	FG/MG	"some VFG zones,	83.4	111.5	DISS	PY	0.05																
								55.25	55.88	Moderate	Patchy	CH										83.4	111.5	FRA	PY	1	along fractures throughout unit																
								55.25	55.88	Moderate	Patchy	BT																															
								55.88	57.52	Moderate	Patchy	CH																															
								55.88	57.52	Moderate	Patchy	BT							52.98	54.63	FG/MG																						
								57.52	59.05	Weak	Pervasive	CH							54.63	55.25	VFG		90.92	91.06	Vein	PY	2																
								57.52	59.05	Moderate	Patchy	SI							55.25	55.88	FG/MG		90.92	91.06	Vein	CP	10																
								57.52	62	Moderate	Patchy	BT							55.88	57.52	VFG		90.92	91.06	Vein	PO	30																
								58.6	59.28	Moderate	Pervasive	CH							57.52	59.05	MG/CC		90.92	91.06	Vein	ILM	3																
								58.6	59.28	Strong	Pervasive	SI	vein with no angle to core axis						69.05	83.46	MG/CC		165.4	165.5	BLB	PY	1																
																			83.46	83.71	CM		165.4	165.5	BLB	CP	10																
																			83.71	84.7	VFG		168.4	169.3	FRA	PY	1	along fractures with SI alteration trace															
																			84.7	105	FG																						
								59.42	59.47	Strong	Fract-Cont	SI							105	111.5	VFG																						
								59.67	59.77	Strong	Fract-Cont	SI							111.5	113.45	BLO	lots of missing core in here as well.	191.4	210	DISS	PY	0.05																
								62.42	62.5	Moderate	Fract-Cont	SI																															
								69.05	83.46	Weak	Pervasive	SI																															

Start Date: 28/Jan/08

Hole: HN-08-74

Southampton Ventures Inc.

Nothing: 6646617

Depth: 318 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303116

Elevation: 254.682m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -60.2

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
312.25	315.3	PEL		Metapelite																																		

Start Date: 28/Jan/08

Hole: HN-08-76

Southampton Ventures Inc.

Nothing: 6646487

Depth: 116 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903307

Elevation: 255 053m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -45

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization				Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	PL_ppm	PD_ppm	Au_ppm	Ni_ppm
101.55	113.2	PEL		Metapelite	0	124	-45		19.2	30.9	Weak	Fract-Cont	CA	local mm	30.8	30.9	60	VEIN	19.2	30.3	FG	equigranular	19.2	30.9		PY		23.85	24.27	30712	0.0025	0.0025	0.0025	56	191
100.7	101.55	MVOL		Mafic Volcanic									size cal	30.8	30.9	25	CT	30.3	30.9	CM		24.4	24.5	Vein	CP	1	24.27	24.67	30713	0.0025	0.0025	0.0025	71	201	
94.71	100.7	PEL		Metapelite									vein	30.9	36.95	65	FOL	30.3	30.9	VFG		43.2	43.4	Vein	PY	5		43	43.6	30714	0.0025	0.0025	0.0025	52	104
94.06	94.71	MS		Massive Sulphide				19.2	30.9	Weak	Fract-Cont	SI	local mm	36.95	37	60	VEIN	30.9	31.8	FG		57	58				57	58	30715	0.0025	0.0025	0.0025	25	436	
91.3	94.06	QTZE		Quartzite									size qtz	36.95	37	60	CT	31.8	33.3	FG/IMG		58	59				58	59	30716	0.0025	0.0025	0.02	114	2540	
90.95	91.3	MS		Massive Sulphide									vein	43.2	43.4	20	FR	33.3	36.9	IMG		59	60				59	60	30717	0.0025	0.0025	0.023	217	2450	
88.55	90.95	MVOL		Mafic Volcanic				19.2	30.9	Weak	Pervasive	CH		45	45.1	30	CT	36.95	37.15	FG	VFG near	56.9	61.5	DISS	CP	2	60	61	30718	0.0025	0.0025	0.0025	69	2480	
88.15	88.55	QTZE		Quartzite				30.9	35.95	Weak	Pervasive	CH		46.7	48.65	30	CT				contact	56.9	61.5	DISS	PY	1	61	61.5	30719	0.0025	0.0025	0.055	213	3530	
82.25	88.15	PSAM		Meta-Psammite				35.95	45.1	Weak	Fract-Cont	CA		48.65	51.15	65	FOL	36.95	37.15	CM		56.9	61.5	DISS	PO	1		30720	0.371	3.758	0.2185	1420	1400		
78.2	82.25	GAB		Gabbro				35.95	45.1	Weak	Fract-Cont	SI		78.2	82.25	70	FOL	37.15	43.3	FG/IMG	GAB dyke with	61.5	61.9	DISS	PY	1	61.5	62	30721	0.013	0.16	0.055	130	3070	
71.5	78.2	MGAB		Mafic Metagab				45.1	45.75	Weak	Pervasive	CH		78.2	82.25	70	STRI				blady Pl clusters	61.5	61.9	DISS	CP	2	72	72.5	30722	0.023	0.031	0.049	112	779	
63.2	71.5	PXE		Pyroxenite				45.75	48.7	Moderate	Pervasive	CH		62.2	82.25	25	CT	43.3	44.9	FG		74	74.6	BLB	PY	5	72.5	73.4	30723	0.01	0.16	0.0025	97	125	
61.5	63.2	MGAB		Mafic Metagab				48.65	51.15	Moderate	Pervasive	CH		88.55	90.95	75	FOL	44.9	45.1	ENC	piece of LGAB	78.2	80.6	BLB-DISS	PY	1	73.4	74	30724	0.039	0.051	0.113	435	1960	
56.9	61.5	PSAM		Meta-Psammite				51.15	56.9	Weak	Pervasive	CH		89	89.5	20	FR	44.9	45.1	CM		78.2	80.6	BLB-DISS	CP	2	74	74.5	30725	0.025	0.056	0.025	468	918	
51.15	56.9	LGAB		Leucogabbro				56.7	56.9	Moderate	Pervasive	SI		91.3	94.06	75	FOL	44.9	45.1	VFG		74.5	75	30726	PO	5	74.5	75	30726	0.0025	0.0025	0.0025	95	56	
48.65	51.15	GAB		Gabbro				56.9	61.5	Weak	Patchy	CH		45.1	45.75			45.1	45.75	IMG		79.6	79.7	FRA	MT	5	75	76	30727	0.021	0.16	0.0025	77	110	
48.7	48.65	MD		Mafic Dyke				61.5	63.2	Weak	Pervasive	CH		45.75	48			45.75	48	CG		80.6	81.1	SMASS	PO	35	76	77	30728	0.0025	0.0025	0.0025	88	71	
45.75	48.7	GAB		Gabbro				61.5	63.2	Moderate	Patchy	SI		48	48.7			48	48.7	MG/CG						77	78	30729	0.008	0.008	0.0025	53	164		
45.1	45.75	LGAB		Leucogabbro				63.2	71.5	Weak	Pervasive	SI		48.7	48.65			81.1	82.25	BLB		81.1	82.25	BLB	PO	3		30730	0.0025	0.0025	0.0025	5	7		
36.95	45.1	MD		Mafic Dyke				63.2	71.5	Weak	Pervasive	CH		48.65	51.15			61.1	82.25	ST		81.1	82.25	ST	CP	10		78	79	30731	0.0505	0.0715	0.0345	1200	1780
30.9	36.95	LGAB		Leucogabbro				67.4	68.2	Moderate	Pervasive	CH		51.15	52.5			51.15	52.5	IMG		79	80				79	80	30732	0.037	0.076	0.009	1420	1780	
19.2	30.9	MD		Mafic Dyke				71.5	72.1	Moderate	Pervasive	CH		52.5	55.9			52.5	55.9	M		80	80.6				80	80.6	30733	0.0025	0.072	0.015	1410	1640	
0	19.2	CAS		Casing				72.1	74.9	Moderate	Fract-Cont	CA		52.5	55.9			52.5	55.9	MG/CG		80.6	81.1				80.6	81.1	30734	0.008	0.305	0.008	5740	2140	
								72.1	74.9	Moderate	Fract-Cont	FLD		55.5	55.9			55.5	55.9	CG		81.1	81.5				81.1	81.5	30735	0.0025	0.247	0.039	1750	8760	
								72.1	74.9	Strong	Pervasive	CH	*extreme, contact with CG and MG MGAB lost.*	56.9	61.5			56.9	61.5	M		82.25	86.15	DISS	MT	1	81.5	82	30736	0.0025	0.062	0.047	562	9130	
														67	66.15			67	66.15	DISS	grey	82	82.6				82	82.6	30737	0.019	0.357	0.122	1020	16200	
														88.15	86.55			88.15	86.55	DISS	metapsammite	82.6	83.5				82.6	83.5	30738	0.0025	0.0025	0.045	156	3300	
														88.15	86.55			88.15	86.55	DISS	local Bl, Chl	83.5	84				83.5	84	30739	0.0025	0.0025	0.032	144	4280	
														61.5	63.2			61.5	63.2	MG/CG								30740	0.3715	3.8195	0.2095	1410	1370		
														61.5	63.2			61.5	63.2	M		84	85				84	85	30741	0.0025	0.0025	0.048	132	3650	
								74.9	78.2	Moderate	Pervasive	CH		63.2	71.5			63.2	71.5	M		85	86				85	86	30742	0.007	0.028	0.045	120	4400	
								74.9	78.2	Strong	Pervasive	SI		63.2	71.5			63.2	71.5	MG/CG	relatively fresh	90.95	91.3	ST	CP	5	86	87	30743	0.0025	0.022	0.028	82	3460	
								78.2	82.25	Moderate	Fract-Cont	SI		91.3	94.06			91.3	94.06	DISS	black PXE	87	88.14				87	88.14	30744	0.006	0.04	0.065	115	6340	
								78.2	82.25	Strong	Pervasive	SI		70.2	71			70.2	71	BC	grounded core	93.8	94.06	BLB-DISS	PO	3	88.14	88.55	30745	0.0025	0.017	0.04	58	3100	
								78.2	82.25	Strong	Pervasive	CH		71.5	73.4			71.5	73.4	MG/CG		88.55	89				88.55	89	30746	0.0025	0.0025	0.0025	67	371	
								81.4	82.25	Moderate	Fract-Cont	CA		73.4	76.2			73.4	76.2	FG	FG to VFG	89	90				89	90	30747	0.0025	0.0025	0.0025	69	175	

Start Date: 28/Jan/08

Hole: HN-08-76

Southampton Ventures Inc.

Northing: 5646487

Depth: 116 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303307

Elevation: 255.053 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -45

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
								82.25	83.5	Weak	Patchy	E						73.4	75.6	MG	possible MGAB dyke, contact lost due to ch"	94.08	94.71	BLB-DISS	CP	5	+ minor stringers	90	90.95	30748	0.0025	0.0025	0.0025	108	833
								82.25	88.15	Weak	Pervasive	SI																90.95	91.3	30749	0.012	0.126	0.192	5630	9220
								82.25	88.15	Weak	Patchy	CH										94.08	94.71	MASS	PO	85				30750	0.106	0.146	0.045	22000	7300
								83.4	83.5	Moderate	Patchy	SI										97.5	98	BLB	CP	3				30751	0.0025	0.017	0.045	542	2560
								88.55	90.95	Weak	Fract-Cont	SI						78	78.2	BC	grounded core									30752	0.0025	0.0025	0.02	74	1880
								88.55	90.95	Weak	Fract-Cont	CA						78.2	82.25	IMG	altered, dif to say"									30753	0.0025	0.0025	0.007	243	717
								88.55	90.95	Moderate	Pervasive	CH										94	94.71	30754	0.0025	0.0025	0.388	4150	42300						
								100.7	101.55	Moderate	Pervasive	CH						82.25	88.15	FG	Q-F grey-purple metased, minor Bt, Ch"									30755	0.0025	0.059	0.068	2560	4970
																						95.4	96	30756	0.0025	0.0025	0.0025	87	251						
																						98	97	30757	0.0025	0.0025	0.0025	47	36						
																						97	97.65	30758	0.0025	0.0025	0.0025	18	18						
																		88.55	88.9	FG										30759	0.0025	0.0025	0.0025	21	1110
																		88.9	90.75	FG/IMG										30760	0.0025	0.0025	0.0025	4	12
																		90.75	90.95	FG										30761	0.0025	0.0025	0.0025	9	13
																		90.95	91.3	FG										30762	0.0025	0.0025	0.0025	13	17
																		91.3	94.06	FG										30763	0.0025	0.0025	0.0025	41	16
																		94.71	100.7	POBL	Crd									30764	0.0025	0.0025	0.0025	104	133
																		94.71	100.7	MG/CG	Bt-Crd-Ms metapelites									30765	0.0025	0.0025	0.0025	20	5
																						102	103	30766	0.0025	0.0025	0.0025	31	41						
																		100.7	101.55	VFG	minor Bt									30767	0.0025	0.0025	0.0025	17	7
																		101.55	113.2	POBL	Crd									30768	0.0025	0.0025	0.0025	24	10
																		101.55	112.1	FG/IMG	blue Bt-Crd Schists									30769	0.0025	0.0025	0.0025	11	13
																														30770	0.3635	3.7825	0.2155	1370	1300
																		112.1	113.2	FG/IMG	Ms-Crd phyllite - schists									30771	0.0155	0.006	0.0025	16	22
																						107	108	30772	0.0025	0.0025	0.0025	15	5						
																						108	109	30773	0.025	0.015	0.0025	15	70						
																						109	110	30774	0.014	0.007	0.0025	11	3						

Start Date: 28/Jan/08

Hole: HN-08-77

Southampton Ventures Inc.

Northing: 6646468

Depth: 111 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303306

Elevation: 254.974m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays														
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm					
0					0	124	-70																																		
									15.7	18.35	Weak	Fract-Cont	CH		15.7	18.35		DYKE	15.7	18.35	M		18.14	18.18	FRA	PY	1														
									15.7	18.35	Moderate	Fract-Cont	A						15.7	18.35	FG																				
									18	18.35	Strong	Fract-Cont	SI																												
									18.35	19.6	Weak	Pervasive	SI						18.35	19.6	M																				
									18.35	19.6	Moderate	Fract-Cont	E						18.35	19.44	MG																				
									18.35	19.6	Moderate	Fract-Cont	CH						19.44	19.6	CG																				
									18.35	19.6	Moderate	Fract-Cont	CA																												
									19.6	22.25	Moderate	Fract-Cont	E		19.6	22.25		DYKE	19.6	19.86	CM	VFG	19.6	22.25	FRA	PY	0.3														
									19.6	22.25	Weak	Fract-Cont	CA						19.6	22.25	M																				
									19.6	22.25	Moderate	Fract-Cont	CH						19.86	21.9	FG																				
									19.6	22.25	Moderate	Fract-Cont	A						21.9	22.25	CM																				
									22.25	23	Weak	Fract-Cont	CA		22.25	23	40	FOL	22.25	23	M		22.25	23	DISS	PY	0.5														
									22.25	23	Moderate	Fract-Cont	CH						22.25	23	CG																				
									23	32.65	Moderate	Fract-Cont	A						23	23.15	CM		23	32.65	FRA	PY	0.1														
									23	32.65	Weak	Fract-Cont	SI						23	32.65	M																				
									23	32.65	Moderate	Fract-Cont	CH						23.15	32.4	MG																				
									23	32.65	Moderate	Fract-Cont	CA						32.4	32.65	CM																				
									32.65	33.15	Weak	Fract-Cont	CA						32.65	33.15	M																				
									32.65	33.15	Moderate	Fract-Cont	CH						32.65	33.15	CG																				
									32.65	33.15	Moderate	Fract-Cont	A																												
									33.15	33.75	Moderate	Fract-Cont	CH		33.15	33.75		FR	33.15	33.75	M																				
									33.15	33.75	Weak	Fract-Cont	SI						33.15	33.75	FG																				
									33.15	33.75	Moderate	Fract-Cont	CA																												
									33.75	34.08	Moderate	Fract-Cont	CH						33.75	34.08	M																				
									33.75	34.08	Moderate	Fract-Cont	A						33.75	34.08	CG																				
									34.08	37	Moderate	Fract-Cont	E		34.08	37	40	FOL	34.08	37	M																				
									34.08	37	Moderate	Fract-Cont	A						34.08	37	MG																				
									34.08	37	Moderate	Fract-Cont	CH																												
									34.08	37	Moderate	Fract-Cont	CA																												
									37	40.25	Moderate	Fract-Cont	CA						37	37.1	CM		37	40.25	FRA	PY	0.3														
									37	40.25	Moderate	Fract-Cont	CH						37	40.25	M																				
									37	40.25	Moderate	Fract-Cont	A						37.1	40.15	MG																				
									40.25	57.26	Weak	Fract-Cont	SR		40.25	60.95	45	FOL	40.25	60.95	M																				

Start Date: 28/Jan/08

Hole: HN-08-77

Southampton Ventures Inc.

Nothing: 6646468

Depth: 111 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303306

Elevation: 254.974m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
	76.23							76.23	87.25	Weak	Fract-Cont	CA		76.23	88.5		FR	76.23	88.5	M		76.23	76.33	ST	CP	22		78	79	28448	0.008	0.0025	0.021	87	253		
	76.23							76.23	88.5	Moderate	Fract-Cont	E		76.23	88.5			76.23	76.6	CM		76.23	86.5	DISS	CP	0.06		79	80	28447	0.0025	0.0025	0.033	112	121		
	76.23							76.23	88.5	Moderate	Fract-Cont	A		76.6	88.5			76.6	88.5	MG								80	81	28448	0.009	0.0025	0.0025	111	133		
	76.23							76.23	88.5	Moderate	Fract-Cont	CH																81	82	28449	0.013	0.118	0.007	92	106.5		
	87.25							87.25	87.85	Moderate	Fract-Cont	CA																									
	88.5							88.5	89.08	Weak	Fract-Cont	CA		88.5	89.08	60	FOL	88.5	89.08	M		88.5	89.08	BLB-DISS	PO	2											
	88.5							88.5	89.08	Weak	Patchy	SI						88.5	89.08	CG		88.5	89.08	BLB-DISS	PY	3											
	88.5							88.5	89.08	Moderate	Fract-Cont	CH																									
	89.08							89.08	89.6	Moderate	Fract-Cont	A		89.08	89.6	60	SCHS	89.08	89.6	M																	
	89.08							89.08	89.6	Moderate	Fract-Cont	CH						89.08	89.6	MG																	
	89.6							89.6	93.13	Moderate	Patchy	SI		89.6	93.13	65	FOL	89.6	93.13	M		89.6	93.13	FRA	PY	2											
	89.6							89.6	93.13	Moderate	Fract-Cont	SR						89.6	93.13	CG		89.6	93.13	BLB-DISS	PO	8											
	89.6							89.6	93.13	Moderate	Fract-Cont	CH						89.6	93.13	CG		89.6	93.13	BLB-DISS	CP	4											
	89.6							89.6	93.13	Moderate	Fract-Cont	CA						89.6	93.13	CG		89.6	93.13	BLB-DISS	CP	4											
	89.6							89.6	93.13	Moderate	Fract-Cont	CH						89.6	93.13	CG		89.6	93.13	BLB-DISS	CP	4											
	89.6							89.6	93.13	Moderate	Fract-Cont	CA						89.6	93.13	CG		89.6	93.13	BLB-DISS	CP	4											
	93.13							93.13	93.75	Moderate	Fract-Cont	CH						93.13	93.75	M		93.13	93.75	BLB-DISS	PO	3											
	93.75							93.75	97.4	Moderate	Pervasive	SI						93.13	93.75	FG		93.13	93.75	BLB-DISS	CP	1											
	93.75							93.75	97.4	Moderate	Fract-Cont	E						93.75	97.4	MG		93.75	97.4	DISS	MT	1											
	93.75							93.75	97.4	Moderate	Fract-Cont	CA						93.75	97.4	MG		93.75	97.4	DISS	MT	1											
	93.75							93.75	97.4	Moderate	Fract-Cont	CH						93.75	97.4	MG		93.75	97.4	DISS	MT	1											
	93.75							93.75	97.4	Moderate	Fract-Cont	CH						93.75	97.4	MG		93.75	97.4	DISS	MT	1											
	97.4							97.4	97.8	Weak	Fract-Cont	CA						97.4	97.8	M		97.4	97.8	ST	PO	7											
	97.4							97.4	97.8	Moderate	Fract-Cont	CH						97.4	97.8	FG		97.4	97.8	ST	CP	8											
	97.4							97.4	97.8	Moderate	Fract-Cont	CA						97.4	97.8	MG		97.4	97.8	FRA	PY												
	97.4							97.4	97.8	Moderate	Fract-Cont	CH						97.4	97.8	MG		97.4	97.8	FRA	PY												
	97.4							97.4	97.8	Moderate	Fract-Cont	CH						97.4	97.8	B		97.4	97.8	ST	CP	10											
	97.4							97.4	97.8	Moderate	Fract-Cont	A						97.4	97.8	B		97.4	97.8	ST	PO	30											
	97.8							97.8	98.8	Moderate	Patchy	SI						97.8	98.8	B		97.8	98.8	ST	PO	30											
	97.8							97.8	98.8	Moderate	Fract-Cont	CH						97.8	98.8	B		97.8	98.8	ST	PO	30											
	97.8							97.8	98.8	Moderate	Fract-Cont	CA						97.8	98.8	B		97.8	98.8	ST	PO	30											
	97.8							97.8	98.8	Moderate	Fract-Cont	CA						97.8	98.8	B		97.8	98.8	ST	PO	30											
	98.94							98.94	102.55	Weak	Patchy	FLD	Kfld	98.8	102.55		FR	98.8	102.55	FG		98.8	102.55	DISS	MT	4											
	98.94							98.94	102.55	Moderate	Pervasive	CH						98.8	102.55	FG		98.8	102.55	DISS	MT	4											
	98.94							98.94	102.55	Moderate	Pervasive	E						98.8	102.55	FG		98.8	102.55	DISS	MT	4											
	98.94							98.94	102.55	Moderate	Pervasive	E						98.8	102.55	FG		98.8	102.55	DISS	MT	4											
	98.94							98.94	102.55	Moderate	Fract-Cont	SI						98.8	102.55	FG		98.8	102.55	DISS	MT	4											
	98.94							98.94	102.55	Moderate	Fract-Cont	CA						98.8	102.55	FG		98.8	102.55	DISS	MT	4											
	98.94							98.94	102.55	Strong	Fract-Cont	CA						98.8	102.55	FG		98.8	102.55	DISS	MT	4											
	101.2							101.2	101.8	Moderate	Fract-Cont	CH						101.2	101.8	ST		101.2	101.8	ST	PO	10											
	101.2							101.2	101.8	Moderate	Fract-Cont	CH						101.2	101.8	ST		101.2	101.8	ST	PO	10											
	101.2							101.2	101.8	Moderate	Fract-Cont	CH						101.2	101.8	ST		101.2	101.8	ST	PO	10											
	101.2							101.2	101.8	Moderate	Fract-Cont	CH						101.2	101.8	ST		101.2	101.8	ST	PO	10											
	101.2							101.2	101.8	Moderate	Fract-Cont	CH						101.2	101.8	ST		101.2	101.8	ST	PO	10											
	101.2							101.2	101.8	Moderate	Fract-Cont	CH						101.2	101.8	ST		101.2	101.8	ST	PO	10											
	101.2							101.2	101.8	Moderate	Fract-Cont	CH						101.2	101.8	ST		101.2	101.8	ST	PO	10											
	101.2							101.2	101.8	Moderate	Fract-Cont	CH						101.2	101.8	ST		101.2	101.8	ST	PO	10											
	101.2							101.2	101.8	Moderate	Fract-Cont	CH						101.2	101.8	ST		101.2	101.8	ST	PO	10											
	101.2							101.2	101.8	Moderate	Fract-Cont	CH						101.2	101.8	ST		101.2	101.8	ST	PO	10											
	101.2							101.2	101.8	Moderate	Fract-Cont	CH						101.2	101.8	ST		101.2	101.8	ST	PO	10											
	101.2							101.2	101.8	Moderate	Fract-Cont	CH						101.2	101.8	ST		101.2	101.8	ST	PO	10											

Start Date: 28/Jan/08

Hole: HN-08-77

Southampton Ventures Inc.

Nothing: 6646468

Depth: 111 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303306

Elevation: 254.974m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -70

Logged By: landry

Supervisor: []

Survey Method: Flexit

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
								102.55	106.95	Moderate	Patchy	CH																												
								106.95	107.45	Moderate	Fract-Cont	A		106.95	107.45	60	BTT	106.95	107.45	FG																				
								106.95	107.45	Moderate	Fract-Cont	CH																												
								107.45	108.85	Weak	Fract-Cont	CA		107.45	108.85	50	SCHS	107.45	108.85	POBL	Cr'd																			
								107.45	108.85	Moderate	Fract-Cont	SI																												
								107.45	108.85	Moderate	Fract-Cont	CH																												
								108.85	113.7	Weak	Patchy	SI		108.85	113.7	55	SCHS	108.85	113.7	POBL	Cr'd																			
								108.85	113.7	Weak	Fract-Cont	CA																												
								108.85	113.7	Moderate	Fract-Cont	CH																												
								113.7	114	Weak	Fract-Cont	CA		113.7	114	60	BTT	113.7	114	FG																				
								113.7	114	Moderate	Fract-Cont	CH																												
								114	114.6	Moderate	Fract-Cont	CA		114	114.6	65	BTT	114	114.6	MG																				
								114	114.6	Moderate	Patchy	CH	and Fract-Cont																											
114.6	116.39	PSAM		Meta-Psammite				114.6	116.39	Weak	Fract-Cont	CA		114.6	116.39	60	SCHS	114.6	116.39	MG																				
								114.6	116.39	Moderate	Fract-Cont	E																												
								114.6	116.39	Weak	Patchy	SI																												
								114.6	116.39	Moderate	Patchy	BT																												
								114.6	116.39	Strong	Patchy	CH																												

Start Date: 28/Jan/08

Hole: HN-08-78

Southampton Ventures Inc.

Nothing: 6646923

Depth: 510 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303065

Elevation: 252.705 m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -68.7

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm				
451.41	455.84	GAB		Gabbro	0	124	-68.7		33	33.88	Moderate	Pervasive	SI	Px altered to Bt.	27.15	151.09	35	VEIN	27.15	151.09	M		151.0	155.1		PY	0.5	associated with veinlets	87.7	88.2	24992	0.0025	0.0025	0.0025	46	194				
451.24	451.41	MS		Massive Sulphide	3	123.9	-68.9							27.16	151.09	55	VEIN	27.15	151.09	MG																				
506.11	510	MVOL		Mafic Volcanic	6	124	-68.8		36	37.3	Moderate	Pervasive	SI		68.09	68.39	55	DYKE	58.3	61.6	B		151.0	155.1		CP	0.5	associated with veinlets	152.7	153.7	24994	0.0025	0.0025	0.0025	33	133				
504.6	506.11	SSH		Melaseo-Schists	9	124.1	-68.6		58.3	61.6	Strong	Fract-Cont	CA	blocky interval	87.75	87.9	53	VEIN	151.09	155.12	FG																			
503.42	504.6	MVOL		Mafic Volcanic	12	124.2	-68.5							99.4	99.6	44	VEIN	155.12	165.38	M		173.1	173.2	Vein	ILM	1	associated with quartz vein	172.3	173.3	24996	0.0025	0.0025	0.0025	41	72.5					
502.24	503.42	SSH		Melaseo-Schists	15	124.4	-68.4		151.09	155.12	Moderate	Fract-Cont	SI	felsic veinlets	106	106.54	50	DYKE	155.12	165.38	MG																			
500.8	502.24	MVOL		Mafic Volcanic	16	124.6	-69							151.09	155.12	50	FOL	163	164	BC		178.9	258.9	DISS	ILM	1.5														
493.21	500.8	SSH		Melaseo-Schists	21	124.7	-68.6		164	165.38	Moderate	Pervasive	SI		151.09	155.12	50	VEIN	165.38	165.7	BC																			
488.89	493.21	PSAM		Meta-Psammitic	24	124.7	-68.7		183.05	187.21	Moderate	Pervasive	SI	darker blue	162.46	163.72	70	DYKE	165.38	178.91	M																			
483.22	488.89	SSH		Melaseo-Schists	27	124.7	-68.6		195	204	Weak	Pervasive	SI		165.28	165.38	66	SHZ	165.38	174	FG																			
480.29	483.22	SLT		Siltstone	30	124.7	-68.5		225.53	226.16	Moderate	Fract-Cont	FP	Sheared	165.38	178.91	30	VEIN	174	176	FG/IG		258.9	265.6		CP	0.25													
479.02	480.29	PEG		Pegmatite	33	124.6	-68.4		241.07	241.45	Moderate	Fract-Cont	SR	associated	172.4	172.5	30	VEIN	176	178.91	FG		258.9	265.6		PY	0.75													
476.49	479.02	PSAM		Meta-Psammitic	36	124.6	-68.3							173.15	173.25	40	VEIN	178.91	229.79	M		258.9	265.6		PO	1														
475.74	476.49	MS		Massive Sulphide	39	124.6	-68.2		257	258.93	Moderate	Pervasive	BT		178.91	229.79	74	VEIN	178.91	220	MG/CG		258.9	265.6		MT	2													
468.15	475.74	GAB		Gabbro	42	124.6	-68.1		289.81	291.54	Moderate	Patchy	BT		178.91	229.79	65	DYKE	188.31	182	MG		265.6	275.2	DISS	ILM	1													
455.84	468.15	PEG		Pegmatite	45	124.6	-68.1		289.81	291.54	Moderate	Patchy	SI		178.91	229.79	37	FR	220	254	CG		275.2	269.8	DISS	MT	0.25	weakly magnetic	262	263	28906	0.0025	0.0025	0.0025	13	81				
448.57	451.24	GAB		Gabbro	48	124.6	-68		291.54	295.59	Moderate	Patchy	CA		258.93	265.69	57	VEIN	254	258.93	MG																			
447.13	448.57	PSAM		Meta-Psammitic	51	124.8	-67.9		291.54	295.59	Strong	Fract-Cont	SI	felsic veins up to cm	265.69	275.24	60	FOL	258.93	265.69	M		289.8	291.5	DISS	CP	1													
443.68	447.13	GAB		Gabbro	54	125	-67.8		306.28	307.63	Moderate	Patchy	M	size grains	275.24	289.81	60	FR	258.93	265.69	FG/IG		291.5	314.8		CP	2	along veins	265	265.5	28909	0.0025	0.0025	0.0025	13	178				
442.81	443.68	MD		Mafic Dyke	57	125.3	-67.7							275.24	289.81	50	VEIN	265.69	275.24	MG/CG		306.6	307.6	DISS	MT	5	intensely chloritized	289.10			0.0025	0.0025	0.0025	2	4					
442	442.81	GAB		Gabbro	60	125.4	-67.6		306.28	307.63	Strong	Pervasive	CH	very intense	289.81	291.54	55	FOL	270.34	270.42	B	Puzzle breccia																		
433.22	442	MD		Mafic Dyke	63	125.4	-67.5							291.54	314.89	55	VEIN	275.24	269.81	FG/IG		407.5	408	BLB	CP	2	1cm bleb with Si	291	292	28912	0.0025	0.0025	0.015	218	1210					
349	375.53	MGAB		meagabro, var. meta	66	125.6	-67.4							291.54	314.89	55	FOL	289.81	281.54	MG																				
375.53	433.22	GAB		Gabbro	69	125.5	-67.3		338.7	340.81	Moderate	Patchy	BT	minor Bt layers	314.89	322	60	FOL	291.54	314.89	FG/IG																			
340.81	349	PXE		metaproxenite	72	125.6	-67.2							320.1	320.3	80	VEIN	314.89	322	MG/CG		433.2	442	DISS	MT	1.5	strongly magnetic	294	295	28915	0.009	0.007	0.012	59	589					
339.7	340.81	PEG		Pegmatite	75	125.7	-67.1		407.59	408	Strong	Pervasive	SI	associated with a	322	331.88		FR	322	337.28	FG																			
337.28	339.7	PXE		metaproxenite	78	125.6	-67.1							340.81	349	59	FOL	337.28	336.7	M		442	442.8	DISS	MT	0.5														
322	337.28	PEG		Pegmatite	81	125.7	-67							349	375.53	62	FR	337.28	338.7	MG/CG		442.8	443.6	DISS	MT	3														
314.89	322	MGAB		meagabro, var. meta	84	125.8	-66.8		411	414	Moderate	Patchy	SI	may be primary	349	375.53	59	FOL	338.7	340.81	M		443.6	447.1	DISS	MT	0.25													
291.54	314.89	MD		Mafic Dyke	87	125.7	-66.8							375.53	432	57	FR	338.7	340.81	MG/CG		447.1	448.5	DISS	CP	0.5														
289.81	291.54	GAB		Gabbro	90	125.8	-66.7		447.13	448.57	Weak	Patchy	BT		375.53	432	48	FOL	340.81	349	MG/CG																			
275.24	289.81	MD		Mafic Dyke	93	125.9	-66.6		450.65	450.8	Moderate	Fract-Cont	SI	52 deg	433.22	442	50	VEIN	349	375.53	MG/CG		451.2	451.4	BLB	CP	2													
266.69	275.24	GAB		Gabbro	96	125.8	-66.5							442	442.81	53	VEIN	375.53	416	FG/IG		451.2	451.4	MASS	PO	85														
258.93	266.69	MD		Mafic Dyke	99	125.9	-66.4							442.81	443.68	50	VEIN	407.59	409.96	B	appears to be drill related.	458.8	459	BLB	PY	0.5														
178.91	258.93	GAB		Gabbro	102	125.9	-66.3							443.68	447.13	50	VEIN					458.8	459	BLB	CP	0.5														
165.38	178.91	MD		Mafic Dyke	105	126	-66.3							447.13	448.57	60	FOL	418	433.22	FG		458.8	459	BLB	PO	0.75														

Start Date: 28/Jan/08

Hole: HN-08-78

Southampton Ventures Inc.

Nothing: 6646923

Depth: 510 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303065

Elevation: 252.705m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -68.7

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
155.12	165.38	GAB		Gabbrc	106	126	-68.2		454.5	455.84	Moderate	Fract-Cont	BT	also	450.65	450.8	52	FR	433.22	442	M		468.5	468.1	BLB	CP	0.5		441	442.5	28927	0.0025	0.0025	0.0025	20	81			
151.09	165.12	MD		Mafic Dyke	111	126.1	-66							patchy	451.41	455.84	37	VEIN	433.22	442	FG		466.5	468.1	BLB	PO	1		442.5	444	28928	0.0025	0.0025	0.0025	25	34			
27.15	151.09	GAB		Gabbrc	114	126.2	-68							and	455.84	468.15	37	FR	442	442.81	FG/IMG		468.1	475.7	DISS	PY	1		444	445	28929	0.0025	0.0025	0.0025	37	57			
0	27.15	CAS		Casing	117	126.3	-65.9							replacing	468.15	475.74	40	FOL	442.81	443.68	FG	very fine near contact.	468.1	475.7	BLB-DISS	CP	2				28930	0.0025	0.0025	0.0025	3	3			
					120	126.2	-65.8							pyroxenes	475.74	476.49	60	STRI					468.1	475.7	PAT	PO	7		446	447	28931	0.011	0.018	0.01	71	196			
					123	126.5	-65.8							from	476.49	479.02	53	FOL	443.68	447.13	FG/IMG		473.9	474.5	DISS	CP	1		447	448	28932	0.02	0.026	0.0025	67	270			
					126	126.5	-65.7		454.5	455.84	Moderate	Fract-Cont	SI		476.49	479.02	47	STRI	447.13	448.57	FG/IMG		473.9	474.5	DISS	PY	2		448	449	28933	0.0024	0.026	0.0025	90	237			
					129	126.5	-65.6		454.5	455.84	Moderate	Fract-Cont	FP		479.02	480.29	48	STRI	448.57	451.24	M		473.9	474.5	ST	PO	35	semi	449	450	28934	0.014	0.02	0.0025	51	126			
					132	126.4	-65.6		468.15	475.74	Moderate	Fract-Cont	BT	along	482.25	482.47	29	VEIN	448.57	451.24	MG		473.9	474.5	ST	PO		massive in	450	451	28935	0.0025	0.0025	0.0025	50	85			
					135	126.5	-65.5							foliated	483.22	488.89	64	FOL	451.24	451.41	M		473.9	474.5	ST	PO		places in	451	451.5	28936	0.0025	0.194	0.0025	2160	1810			
					136	126.6	-65.5		473.6	475.74	Moderate	Pervasive	SI	bleaching	488.89	493.21	68	FOL	451.41	455.84	MG		451.5	452	28937	0.0025	0.013	0.0025	179	111	intervals	451.5	452	28937	0.0025	0.013	0.0025	179	111
					141	126.7	-65.4		475.74	476.49	Moderate	Patchy	A	Hb	488.89	493.21	65	VEIN	455.84	466.15	M		474.8	475.0	SMASS	PO	65		452	453	28938	0.0025	0.0025	0.0025	94	127			
					144	126.8	-65.4		480.29	481.57	Moderate	Patchy	SI		493.21	500.8	63	FOL	455.84	466.15	CG		475.4	475.6	BLB-DISS	CP	4		453	454	28939	0.0025	0.0025	0.0025	64	123			
					147	127	-65.3		482.25	482.47	Moderate	Fract-Cont	E		500.8	502.24	69	FOL	468.15	475.74	MG/CG		475.4	475.6	SMASS	PO	55				28940	0.0075	3.82	0.228	1350	1340			
					150	127.3	-65.2		482.25	482.47	Moderate	Fract-Cont	CA	vein	502.24	503.42	63	FOL	475.74	476.49	FG	psammitic unit	475.7	478.4	BLB-DISS	PY	5		454	455	28941	0.0025	0.0025	0.0025	151	816			
					153	127.3	-65.2		488.89	493.21	Moderate	Fract-Cont	SI		503.42	504.6	65	FOL	476.49	479.02	FG		475.7	478.4	BLB-DISS	CP	2		455	455.8	28942	0.0025	0.0025	0.0025	202	578			
					156	127.4	-65.1		490.85	491.1	Strong	Fract-Cont	SR		504.6	506.11	71	FOL	479.02	480.29	CG		475.7	478.4	SMASS	PO	60		455.8	457	28943	0.0025	0.0025	0.0025	26	196			
					159	127.6	-65		506.11	510	Moderate	Fract-Cont	SI		506.11	510	62	FOL	480.29	483.22	VFG		476.4	478.8	DISS	CP	2		457	458	28944	0.0025	0.0025	0.0025	11	269			
					162	127.7	-64.8								506.11	510	49	VEIN	483.22	488.89	MG		476.4	478.8	ST	PY	5		458	459	28945	0.0025	0.0025	0.0025	7.5	266.5			
					165	127.7	-64.7												488.89	493.21	FG		476.4	478.8	ST	PO	8		459	460	28946	0.0025	0.0025	0.0025	8	10.5			
					168	127.7	-64.7												493.21	500.8	MG		476.8	478	FRA	CP	3		460	461	28947	0.0025	0.0025	0.0025	7	8			
					171	127.8	-64.6												500.8	502.24	FG/IMG		479.2	479.4	ST	CP	3		461	462	28948	0.0025	0.0025	0.0025	7.5	15			
					174	127.9	-64.6												502.24	503.42	FG/IMG		479.2	479.4	ST	PO	3		462	463	28949	0.0025	0.0025	0.0025	6	4.5			
					177	127.9	-64.6												503.42	504.6	FG/IMG	Light green	480	480.2	DISS	CP	4				28950	0.092	0.14	0.046	17950	8285			
					180	128	-64.6												504.6	506.11	MG	Grit + Cords, but Fg Bt	480	480.2	SMASS	PO	55		463	464	28951	0.0025	0.0025	0.0025	6	4			
					183	128.1	-64.6																480.2	481.5	BLB-DISS	CP	8		464	465	28952	0.0025	0.0025	0.0025	5	10			
					186	128.2	-64.5												506.11	510	FG/IMG		480.2	481.5	ST	PO	15		465	466	28953	0.0025	0.0025	0.0025	8	6			
					189	128.2	-64.5																481.5	482	FRA	PY	3		466	467.5	28954	0.0025	0.0025	0.0025	8	102			
					192	128.3	-64.5																483.2	488.8	DISS	PY	2		467.5	468	28955	0.0025	0.0025	0.0025	208	344			
					195	128.4	-64.6																					Si movement	468	468.5	28956	0.0025	0.043	0.009	1620	2880			
					198	128.5	-64.5																					on one	468.5	469	28957	0.015	0.082	0.018	1530	2340			
					201	128.7	-64.5																					cordierite	469	470	28958	0.0025	0.063	0.012	578	1160			
					204	128.8	-64.5																					grain	470	471	28959	0.018	0.075	0.029	1270	2090			
					207	128.8	-64.5																488.8	488.5	DISS	CP	2				28960	0.0025	0.0025	0.0025	25	39			
					210	128.9	-64.5																							471	472	28961	0.038	0.127	0.063	2060	4220		
					213	128.9	-64.5																							472	473	28962	0.05	0.038	0.043	1150	2380		

Start Date: 28/Jan/08

Hole: HN-08-78

Southampton Ventures Inc.

Nothing: 6646923

Depth: 510 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303066

Elevation: 252.705m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -58.7

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 25/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey			Alteration				Structure				Texture				Mineralization						Assays													
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
					432	139.2	-59.9																																
					435	139.4	-60																																
					436	139.6	-60																																
					441	139.7	-60.1																																
					444	139.8	-60.1																																
					447	139.9	-60.1																																
					450	139.9	-60.1																																
					453	140	-60.2																																
					456	140.1	-60.2																																
					459	140.4	-60.2																																
					462	140.4	-60.2																																
					465	140.5	-60.3																																
					468	140.6	-60.3																																
					471	140.6	-60.1																																
					474	140.9	-60																																
					477	141.1	-60																																
					480	141.3	-59.9																																
					483	141.4	-59.8																																
					486	141.5	-59.6																																
					489	141.6	-59.5																																
					492	141.6	-59.4																																
					496	141.8	-59.2																																

Start Date: 28/Jan/08

Hole: HN-08-79

Southampton Ventures Inc.

Nothing: 6647132

Depth: 583 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303233

Elevation: 257.837m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -68.8

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm
589.5	592.87	PSAM		Meta-Psammite	0	124	-68.8	6.7	17.55	Moderate	Pervasive	CH		17.4	17.55	35	SHZ	6.7	17.55	M		158.6	159.5	Vein	PY	1		354.6	355.6	29001	0.038	0.192	0.01	399	477
586.6	589.5	MVOL		Mafic Volcanic	3	124.2	-68.9	17.55	18.2	Moderate	Pervasive	CH		21.1	24.75	60	FOL	6.7	17.55	MG		159.5	162.5	DISS	CP		at contact	355.6	356.1	29002	0.173	0.408	0.035	568	1620
584.45	586.6	PSAM		Meta-Psammite	6	124.2	-68.8	18.2	21.1	Moderate	Pervasive	CH		51.2	59.3	55	FOL	17.55	18.2	M							with QGAB	356.1	357	29003	0.191	0.645	0.015	1050	1540
572.85	584.45	MVOL		Mafic Volcanic	9	124.3	-68.8	19.7	21.1	Moderate	Fract-Cont	E		62.8	65.2	70	SCHS	17.55	18.2	MG		161.4	161.6	Vein	CP	1	assoc with	357	358	29004	0.0025	0.0025	0.0025	273	60
569.55	572.85	PEL		Metapelite	12	124.4	-68.8	19.7	21.1	Strong	Fract-Cont	SI		65.2	67.4	65	SCHS	18.2	21.1	M						silicification	345.5	346.3	29005	0.033	0.037	0.009	164	392	
554.5	569.55	PSAM		Meta-Psammite	15	124.5	-68.8	21.1	24.75	Moderate	Pervasive	CH		67.4	77.05	45	FOL	18.2	21.1	FG		302.9	304	DISS	PO	2		363.5	364	29006	0.0025	0.0025	0.0025	221	273
538.9	554.5	PEL		Metapelite	16	124.6	-68.8	21.35	21.9	Moderate	Fract-Cont	E		77.05	77.1	40	CT	20.5	20.9	BC						local shear	397.1	397.6	29007	0.0025	0.0025	0.0025	261	232	
538.45	538.9	PEG		Pegmatite	21	124.7	-68.8	21.35	21.9	Strong	Fract-Cont	SI		77.65	108.9	45	FOL	21.1	22.7	FG		313.3	314.5	Vein	CP		in small qtz	397.6	398.4	29008	0.019	0.011	0.0025	204	25
535.4	538.45	PSAM		Meta-Psammite	24	124.7	-68.6	24.75	35.15	Moderate	Pervasive	CH		141.1	142.55	50	SHZ	22.7	24.75	MG						veins	398.4	399.4	29009	0.0025	0.0025	0.0025	182	62	
529.6	535.4	PEG		Pegmatite	27	124.8	-68.6	34	35.15	Weak	Pervasive	SI		142.55	152	35	FOL	24.75	35.15	M		313.3	314.5	DISS	MT					29010	0.0025	0.0025	0.0025	7	3
528.83	529.6	MVOL		Mafic Volcanic	30	125	-68.6	35	35.15	Weak	Pervasive	SI		158.6	159.5	45	FOL	24.75	35.15	MG		314.5	314.7	BLB	ILM	5	xenomorphic	399.4	399.9	29011	0.012	0.011	0.015	401	1210
528.7	528.83	QV		Quartz Vein	33	125.1	-68.6	35.15	35.65	Weak	Pervasive	CH		159.5	162.5	35	FOL	35.15	36.65	M						silicite,	399.9	401	29012	0.0025	0.0025	0.0025	44	119	
528.51	528.7	PEL		Metapelite	36	125.2	-68.5	35.65	37.9	Weak	Pervasive	SI		162.4	162.5	60	SHZ	35.15	36.65	MG						shear	444.2	445.1	29013	0.0025	0.0025	0.0025	329	339	
528.36	528.51	MS		Massive Sulphide	39	125.3	-68.5	35.65	37.9	Weak	Pervasive	CH		162.5	171.1	35	FOL	36.65	37.9	M		314.7	315.5	DISS	ILM			445.1	446.1	29014	0.0025	0.0025	0.014	282	86
526.45	528.36	PEL		Metapelite	42	125.4	-68.4	37.9	45.9	Weak	Pervasive	CH		172.7	172.75	90	CT	36.65	37.9	MG		344.3	344.5	DISS	CP	1		451.6	452.2	29015	0.016	0.023	0.058	275	1020
524.35	526.45	MS		Massive Sulphide	45	125.5	-68.5	45.9	45.75	Weak	Pervasive	CH		179.8	179.85	45	FOL	37.9	45.9	M		344.5	346	DISS	CP			452.2	452.2	29016	0.017	0.022	0.03	176	494
509.25	524.35	PEL		Metapelite	48	125.6	-68.5	45.75	51.2	Weak	Pervasive	SI		179.85	181	45	FOL	37.9	45.9	MG		350.8	351	BLB	CP	1		452.2	453	29017	0.014	0.051	0.012	238	325
498.35	509.25	MVOL		Mafic Volcanic	51	125.8	-68.4	45.75	51.2	Weak	Pervasive	CH		180.9	181	20	CT	45.9	46.75	M		350.8	351	BLB	PO	5	one 2 cm	453	453.6	29018	0.0025	0.024	0.04	297	925
497.75	498.35	MSED		Metasediment	54	125.9	-68.4	51.2	59.3	Weak	Pervasive	SI		181	181.6	45	FOL	45.9	46.75	MG						bleb	453.6	454.6	29019	0.029	0.036	0.071	336	1450	
490.65	497.75	MVOL		Mafic Volcanic	57	126	-68.4	51.2	59.3	Moderate	Pervasive	CH		269.7	271.5	65	FOL	46.75	51.2	M		356	356.2	DISS	CP	3	at contact			29020	0.4005	3.795	0.218	1360	1290
486.85	490.65	MTVOL		Metavolcanic	60	126.2	-68.3	59.3	61.2	Weak	Pervasive	SI		269.7	269.7	70	CT	46.75	51.2	MG						with MSED	455.9	456	29021	0.0025	0.0025	0.0025	136	55	
483.4	486.85	PSAM		Meta-Psammite	63	126.3	-68.3	59.3	61.3	Weak	Pervasive	CH		296.7	298.6	60	SHZ	51.2	59.3	FG/MG		383.5	384	DISS	PY	1		456	458.7	29022	0.02	0.027	0.062	220	1280
479.3	483.4	PEL		Metapelite	66	126.4	-68.2	61.3	65.2	Moderate	Pervasive	CH		298.8	302.9	45	FOL	59.3	62.8	M		397	398	DISS	CP			458.7	458.5	29023	0.0025	0.0025	0.0025	53	349
479	479.3	IVOL		Intermed Volcanic	69	126.4	-68.2	63	64	Moderate	Patchy	BT		302.95	303	65	SHZ	59.3	65.2	MG		398.5	399.7	BLB	PY	5		458.5	460	29024	0.0025	0.0025	0.0025	213	3510
478.75	479	PEL		Metapelite	72	126.6	-68.1	65.2	77.05	Moderate	Pervasive	CH		309	313.3	45	FOL	63.4	63.9	BC	shear zone	399.5	399.7	BLB	CP	15		460	460.5	29025	0.0025	0.0025	0.0025	107	468
475.8	478.75	PSAM		Meta-Psammite	75	126.7	-68.1	74	77.05	Weak	Pervasive	SI		313.3	313.3	50	CT	66.2	67.6	FG/MG		444.2	445.1	DISS	CP			463	464	29026	0.0025	0.0025	0.0025	257	1020
474.5	475.8	MTVOL		Metavolcanic	78	126.9	-68.1	77.05	77.65	Strong	Pervasive	CH		313.3	314.5	45	FOL	67.6	67.6	MG		464	465	DISS	CP	0		464	465	29027	0.0025	0.0025	0.0025	204	337
466.35	474.5	PSAM		Meta-Psammite	81	127	-68	77.65	92	Weak	Pervasive	CH		314.4	314.5	25	CT	77.05	77.65	M		452.1	454.2	DISS	PO			465	465	29028	0.0025	0.0025	0.0025	128	222
460.65	466.35	GAB		Gabbro	84	127.1	-68	92	95	Moderate	Pervasive	CH		314.5	315	55	SHZ	77.05	77.65	YFG		452.1	454.2	DISS	CP	1		466	466.5	29029	0.0025	0.0025	0.08	267	1370
457.1	460.65	PSAM		Meta-Psammite	87	127.3	-68	95	112.8	Weak	Pervasive	CH		315	316.8	40	FOL	77.65	158.6	MG		457.1	460.6	DISS	CP	1				29030	0.0025	0.0025	0.0025	9	31
452.1	457.1	GAB		Gabbro	90	127.4	-67.9	112.8	122.1	Moderate	Pervasive	CH		334	335.05	20	FOL	97	109.9	M	weak fol					one large	465.5	467.2	29031	0.0025	0.0025	0.0025	47	150	
451.8	452.1	QV		Quartz Vein	93	127.5	-67.9	122	158.6	Moderate	Pervasive	CH		335.05	341.85	40	FOL	109.9	141.1	M						stringer	467.2	468	29032	0.0025	0.0025	0.0025	33	246	
450.05	451.8	GAB		Gabbro	96	127.7	-67.9	122	141.1	Weak	Pervasive	CH		341.75	341.85	70	CT	137.65	136.9	BC						one large	468	469	29033	0.0025	0.0025	0.02	73	863	
447.5	450.05	MGAB		Mafic Metagab	99	127.8	-67.9	141.1	142.7	Moderate	Patchy	BT		424.7	425.3	55	FOL	142.55	158.6	M	weak fol						469	470	29034	0.0025	0.0025	0.04	80	2870	
446.15	447.5	PEG		Pegmatite	102	128	-67.9							444.2	444.3	75	SHZ	158.6	159.5	FG		460.6	465.3	DISS	PO			473	473.7	29035	0.143	0.167	0.266	855	3060
444.2	446.15	MGAB		Mafic Metagab	105	128.1	-67.9							444.2	446.15	45	FOL	158.5	162.5	MG		460.8	468.3	DISS	CP	1		473.7	474.5	29036	0.014	0.036	0.243	702	3490

Start Date: 28/Jan/08

Hole: HN-08-79

Southampton Ventures Inc.

Nothing: 6647132

Depth: 583 m

Completed Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903233

Elevation: 257.837m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -68.8

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays									
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm
435.5	444.2	PEG		Pegmatite	106	128.2	-67.9		149.5	152	Weak	Patchy	BT	"local Bt grains, possibly primary"	447.5	450.05	30	FOL	162.5	172.75	MG		466.3	474.5	DISS	MT	2		474.5	475.2	29037	0.015	0.027	0.109	264	1050
391.6	435.5	MGAB		Mafic Metagab	111	128.4	-67.9								449	449.1	40	SHZ	171.1	172.75	M		473	474.5	DISS	PO	1		475.2	475.9	29038	0.034	0.04	0.109	345	1410
357	391.6	PXE		Pyroxenite	114	128.5	-67.9								450.05	451.8	30	FOL	172.75	179.6	M		475.9	476.5	DISS	CP	1		475.9	476.5	29039	0.0065	0.0945	0.195	1000	3430
356.2	357	MSED		Metasediment	117	128.6	-67.9								456.8	457.1	60	FOL	172.75	176	MG		476.5	478.7	BLB	PY	2				29040	0.3655	3.699	0.2095	1430	1590
348.3	356.2	PXE		Pyroxenite	120	128.8	-67.8		158.6	159.5	Strong	Pervasive	CH		457.1	459.6	35	FOL	176	176.95	CG		478.7	478.7	DISS	PO	2		478.5	477.1	29041	0.012	0.036	0.043	911	2010
344.5	348.3	MGAB		Mafic Metagab	123	129	-67.8		159	159.3	Strong	Fract-Cont	SI		459.6	460.65	60	SCHS	176.95	179.4	MG		478.7	478.7	DISS	CP	2		477.1	478	29042	0.0025	0.1	0.045	1160	4000
341.85	344.5	PXE		Pyroxenite	126	129.1	-67.8		152.5	152.5	Moderate	Pervasive	CH		460.65	466.35	50	FOL	179.4	179.85	FG/IMG		478.3	483.4	BLB	PO	1		478	479	29043	0.062	0.122	0.015	1110	1560
335.05	341.85	GAB		Gabbro	129	129.2	-67.8		152.4	152.5	Weak	Patchy	SI	at contact	466.35	474.5	50	FOL	179.85	181	FG/IMG		479.3	483.4	DISS	CP	1		480	481	29044	0.023	0.017	0.01	106	302
319.1	335.05	MGAB		Mafic Metagab	132	129.3	-67.7		152.5	172.75	Weak	Pervasive	CH		475.8	478.75	60	FOL	181	182	FG/IMG		479.3	483.4	DISS	MT	1		481	482	29045	0.038	0.058	0.041	243	731
314.5	319.1	GAB		Gabbro	135	129.4	-67.7		172.75	179.85	Moderate	Pervasive	CH		478.75	479	35	SCHS	182	217.75	M		483.4	485.9	DISS	MT	1		484	485	29046	0.034	0.151	0.054	230	413
313.3	314.5	DD		Diabase Dyke	136	129.4	-67.7		177.3	179.85	Weak	Fract-Cont	SI		479.3	483.4	70	FOL	182	217.75	MG		485	485.6	DISS	CP	2		485	485.6	29047	0.037	0.055	0.104	571	1420
304.6	313.3	GAB		Gabbro	141	129.6	-67.7		178.8	179.85	Weak	Pervasive	SI		486.95	490.65	70	FOL	217.75	269.7	MG/CG	Qtz-Kfs-Pl-Ms-Td	486	486.3	BLB	MT	5		465.6	486.3	29048	0.082	0.075	0.021	373	329
302.9	304.6	LGAB		Leucogabbro	144	129.7	-67.7		179.85	181	Weak	Pervasive	SI		490.65	497.75	70	FOL				ur-Grt-Bt Grt	486.9	490.6	DISS	CP	3		485.3	486.9	29049	0.032	0.034	0.018	307	315
295.8	302.9	GAB		Gabbro	147	129.8	-67.7		179.85	181	Weak	Fract-Cont	SI		498.35	509.25	50	FOL				is FG	489.8	490.6	DISS	PO					29050	0.1	0.135	0.051	18600	8510
292.5	295.8	MGAB		Mafic Metagab	150	129.9	-67.6		179.85	181	Moderate	Pervasive	CH		498.35	509.25	50	VEIN	217.75	269.7	PEG		489.8	490.6	DISS	MT	2		485.9	488	29051	0.01	0.04	0.239	100	3740
284.5	292.5	GAB		Gabbro	153	130	-67.7		181	181.6	Weak	Pervasive	SI		509.25	524.35	70	FOL	219.7	219.85	BC		499	499.5	DISS	CP	2		488	489	29052	0.181	0.193	0.502	97	3810
283.3	284.5	PEG		Pegmatite	156	130.2	-67.6		181	183	Weak	Fract-Cont	SI		526.45	528.36	85	FOL	268.5	269	ENC	GAB enclave	508.2	524.3	DISS	CP			489	490	29053	0.031	0.069	0.445	167	3990
269.7	283.3	GAB		Gabbro	159	130.2	-67.7		181	183	Moderate	Pervasive	CH		528.93	529.6	85	FOL	269.7	263.3	MG/CG		524.2	524.3	BLB	PY	10		490	491	29054	0.042	0.069	0.342	149	3725
181	217.75	GAB		Gabbro	162	130.2	-67.6		183	215.3	Weak	Pervasive	CH		535.4	538.45	70	FOL	271.5	263.3	M		524.2	524.3	BLB	CP	2		491	492	29055	0.049	0.068	0.239	6.5	2330
179.85	181	MD		Mafic Dyke	165	130.3	-67.6		201.4	201.5	Strong	Fract-Cont	SI		538.9	554.5	70	SCHS	283.3	284.5	CG		524.2	524.3	DISS	PO			504	505	29056	0.0025	0.0025	0.069	53	423.5
217.75	269.7	PEG		Pegmatite	168	130.4	-67.5		215.3	217.75	Moderate	Pervasive	CH		554.5	569.55	75	FOL	283.3	284.5	PEG	Qtz-PHMs	524.3	528.4	DISS	MT	8		505	505	29057	0.024	0.019	0.212	61	789
172.75	179.85	GAB		Gabbro	171	130.5	-67.5		257.7	272.5	Weak	Patchy	BT		569.55	572.85	75	FOL	284.5	292.5	M		524.3	524.5	BLB	PY	20		506	507	29058	0.0025	0.0025	0.0025	60	237
162.5	172.75	QGAB		Qtz bearing gao	174	130.6	-67.5		262.7	271.1	Strong	Pervasive	CH		572.85	584.45	70	VEIN	284.5	292.5	MG		528.4	528.4	BLB-DISS	CP	7		507	508	29059	0.0025	0.0025	0.0025	64	209
159.5	162.5	GAB		Gabbro	177	130.8	-67.4		271.1	283.3	Moderate	Pervasive	CH		572.85	584.45	70	FOL	292.5	295.8	M		524.3	525	MASS	PO	85				29060	0.0025	0.0025	0.0025	5	12
158.6	159.5	MD		Mafic Dyke	180	130.9	-67.5		284.5	285.5	Moderate	Pervasive	CH		584.45	596.6	75	FOL	292.5	295.8	MG		525	525.4	MASS	PO	90		508	509.2	29061	0.0025	0.0025	0.0025	62	160
77.65	158.6	GAB		Gabbro	183	131	-67.4		285.5	292.5	Weak	Pervasive	CH		596.6	599.5	85	FOL	295.8	298.7	MG		526.4	528.6	DISS	MT	5		505.2	510	29062	0.0025	0.0025	0.0025	35	145
77.05	77.65	MD		Mafic Dyke	186	131.2	-67.5		292.5	295.8	Weak	Pervasive	CH		599.5	592.87	75	FOL	296.7	298.8	FG		528.4	528.6	DISS	CP	2		510	511	29063	0.0025	0.0025	0.0025	10	42
65.2	77.05	GAB		Gabbro	189	131.3	-67.5		295.6	302.9	Weak	Pervasive	CH						298.8	302.9	MG		526.4	528.6	SMASS	PO	40		511	512	29064	0.0025	0.0025	0.0025	14	7
59.3	65.2	MGAB		Mafic Metagab	192	131.4	-67.5		296.2	298.8	Strong	Pervasive	BT						302.9	304.6	M		526.6	527	ST	PO	2	one 1mm stringer	512	513	29065	0.0025	0.0025	0.0025	18	4
51.2	59.3	PXE		Pyroxenite	195	131.5	-67.5		301	302.9	Weak	Patchy	BT						302.9	304.6	MG/CG		513	514	29066	0.02	0.046	0.042	31	392						
46.75	51.2	MGAB		Mafic Metagab	198	131.7	-67.4		302.9	304.6	Weak	Pervasive	CH						304.6	308	M		526.6	528.3	DISS	MT	1		514	515	29067	0.0025	0.0025	0.017	20	147
45.9	46.75	GAB		Gabbro	201	131.8	-67.4		304.6	313.3	Moderate	Pervasive	CH						304.6	307.1	MG		526.6	527	DISS	CP	1		515	516	29068	0.012	0.027	0.043	18	320
37.9	45.9	MGAB		Mafic Metagab	204	131.9	-67.5		312	312.5	Strong	Pervasive	SI						307.1	308.1	CG		528.3	528.5	DISS	MT	15		516	517	29069	0.0025	0.0025	0.0025	13	13
38.65	37.9	GAB		Gabbro	207	132	-67.5	Page: 2 of 7	313.3	314.5	Weak	Fract-Cont	SI	minor mm size Qtz veins					308.1	311	MG/CG		528.3	528.5	MASS	PO	85				29070	0.3995	3.847	0.2205	1380	1290
35.15	38.65	MGAB		Mafic Metagab	210	132.2	-67.4												311	313.3	MG		528.9	529.6	DISS	MT	2		499	499.7	29071	0.0025	0.0025	0.211	76	952
24.75	35.15	PXE		Pyroxenite	213	132.3	-67.4																552	554.5	DISS	CP		trace	517	518	29072	0.0025	0.0025	0.0025	16	7

Start Date: 28/Jan/08

Hole: HN-08-79

Southampton Ventures Inc.

Nothing: 6647132

Depth: 593 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903233

Elevation: 257.837m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -68.8

Logged By: Ian Dry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays								
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	PL_ppm	Pd_ppm	Au_ppm	Ni_ppm
21.1	24.75	MGAB		Mafic Metagab	216	132.4	-67.4		314.5	319.1	Moderate	Pervasive	CH					313.3	314.5	FG	FG grey cyke,	566	568.5	BLB	CP	2		516	519	29073	0.0025	0.0025	0.0025	15	9
18.2	21.1	LGAB		Leucogabro	219	132.7	-67.3		318.1	336.05	Moderate	Pervasive	CH								magnetic"	577.9	578.3	Vein	ILM	4		519	520	29074	0.0025	0.0025	0.0025	13	9
17.55	18.2	GAB		Gabbro	222	132.8	-67.3		335.05	341.85	Moderate	Pervasive	CH					314.5	314.9	FG/IMG	"nylon tized	577.9	578.3	Vein	MT			520	521	29075	0.0025	0.0025	0.0025	15	4
6.7	17.55	LGAB		Leucogabro	225	133	-67.3		338.7	341.85	Moderate	Patchy	BT								gabro,	577.9	578.3	ST	PY	2		521	522	29076	0.0025	0.0025	0.0025	16	4
0	6.7	CAS		Casing	228	133.2	-67.3		341.7	341.85	Moderate	Fract-Cont	SI	at contact:							zonals	586.6	589.5	DISS	MT	1		522	523	29077	0.0025	0.0025	0.0025	18	22
					231	133.3	-67.2		341.85	344.5	Weak	Patchy	BT								MG/CG						523	523.7	29078	0.0025	0.0025	0.0025	26	25	
					234	133.5	-67.2		341.85	344.5	Strong	Pervasive	CH								porphyroclasts"	523.7	524.3				523.7	524.3	29079	0.0025	0.162	0.029	1960	4810	
					237	133.7	-67.2		344.5	346	Weak	Patchy	BT					314.9	316.8	MG	foliate gabro							29080	0.0025	0.0025	0.0025	31	109		
					240	133.9	-67.2		344.5	348.3	Strong	Pervasive	CH								M						524.3	525	29081	0.0025	0.63	0.095	8400	22700	
					243	133.9	-67.1		348.3	355.2	Strong	Pervasive	CH								MG/CG	massive gab	525	525.5				525	525.5	29082	0.0025	0.467	0.11	9480	13200
					246	133.9	-67.1		356.2	357	Moderate	Pervasive	SI								BC						525.5	526	29083	0.0025	0.664	0.068	9930	11400	
					249	134	-67.1		357	361.6	Strong	Pervasive	CH	locally							M						526	526.4	29084	0.0025	0.694	0.066	9690	25300	
					252	134.1	-67.1						moderate								MG/CG	equigranular	526.4	527				526.4	527	29085	0.0025	0.052	0.0025	2390	7000
					255	134.2	-67		361.6	426	Moderate	Pervasive	CH								MG						527	528.1	29086	0.0025	0.0025	0.0025	67	125	
					258	134.4	-67		405	415	Weak	Patchy	BT								MG/CG						528.1	528.5	29087	0.0025	0.277	0.0025	5620	2300	
					261	134.5	-67		424.7	426	Weak	Pervasive	SI								MG/CG	"originally	528.5	528.9				528.5	528.9	29088	0.0025	0.0025	0.0025	123	242
					264	134.6	-67		426	435.5	Weak	Patchy	BT								MG/CG now						528.9	529.6	29089	0.0025	0.0025	0.0025	41	75	
					267	134.7	-67		426	435.5	Strong	Pervasive	CH									FG because of						29090	0.0025	0.0025	0.0025	11	9		
					270	134.8	-67		444.2	446.15	Moderate	Fract-Cont	SI	local qtz													529.6	530.4	29091	0.0025	0.0025	0.0025	117	192	
					273	134.9	-67.1						veins								M						530.4	531	29092	0.0025	0.0025	0.0025	26	109	
					276	135	-67		444.2	446.15	Moderate	Fract-Cont	BT								MG/CG						531	532	29093	0.0025	0.0025	0.0025	7	11	
					279	135.1	-67		444.2	444.45	Strong	Pervasive	BT								M						532	533	29094	0.0025	0.0025	0.0025	40	15	
					282	135.3	-67		444.2	446.15	Strong	Pervasive	CH								MG/CG						533	534	29095	0.0025	0.0025	0.0025	5	4	
					285	135.4	-67		447.5	450.05	Weak	Fract-Cont	BT								M						534	534.7	29096	0.0025	0.0025	0.0025	4	5	
					288	135.5	-67		447.5	450.05	Moderate	Pervasive	BT								FG/IMG	grey	534.7	535.4				534.7	535.4	29097	0.0025	0.0025	0.0025	4	31
					291	135.6	-66.9		447.5	450.05	Strong	Pervasive	CH									metasediment	535.4	536				535.4	536	29098	0.0025	0.0025	0.0025	35	29
					294	135.8	-67		450.05	451.8	Weak	Pervasive	CH									lens	536	537				536	537	29099	0.0025	0.0025	0.0025	7	2
					297	135.9	-66.9		451.8	452.1	Strong	Fract-Cont	SI									recrystallized"						29100	0.1	0.149	0.049	21900	8170		
					300	136	-66.9		452.1	457.1	Moderate	Pervasive	CH								POIK	local CG poik	537	538				537	538	29101	0.0025	0.0025	0.0025	48	60
					303	136.2	-66.8		454.5	456.8	Weak	Patchy	BT														538	538.5	29102	0.0025	0.0025	0.0025	21	15	
					306	136.4	-66.8		456.8	457.1	Weak	Pervasive	SI								M	Px, 2% of unit"	538.5	539				538.5	539	29103	0.0025	0.0025	0.0025	6	6
					309	136.6	-66.8		456.8	457.1	Strong	Patchy	BT								MG/CG						539	540	29104	0.0025	0.0025	0.0025	9	2	
					312	136.7	-66.8		457.1	460.65	Weak	Fract-Cont	SI								M						540	541	29105	0.0025	0.0025	0.0025	10	66	
					315	136.8	-66.7		457.1	460.65	Weak	Patchy	CH									-20-30% PI	541	542				541	542	29106	0.0025	0.276	0.0025	50	76
					318	136.9	-66.8		457.1	460.65	Strong	Patchy	BT														542	543	29107	0.0025	0.0025	0.0025	86	11	
					321	137	-66.7		460.65	466.35	Moderate	Patchy	SI								MG/CG	-50% PI	543	544				543	544	29108	0.0025	0.0025	0.0025	62	3

Start Date: 28/Jan/08

Hole: HN-08-79

Southampton Ventures Inc.

Nothing: 6647132

Depth: 593 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 903233

Elevation: 257.837m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -68.8

Logged By: landry

Supervisor: [REDACTED]

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays											
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm		
324	137				137	-68.8		460.65	466.35	Weak	Patchy	A	local MG					398.3	435.5	POIK	local CG Px with inclusions, 2-3%"							544	545	29109	0.0025	0.0025	0.0025	54	3			
327	137.1				137.1	-68.7							Hbl and Cum																									
330	137.2				137.2	-68.7																																
333	137.3				137.3	-68.6		460.65	466.35	Strong	Pervasive	BT						398.3	435.5	MG/CG	10-25% Pl							545	546	29110	0.0025	0.0025	0.0025	87	222			
336	137.5				137.5	-68.6		460.65	466.35	Strong	Pervasive	CH						435.5	444.2	MG/CG	Pl-Qtz-Kfs-Ms, local Grt							546	547	29112	0.019	0.006	0.0025	54	101			
339	137.6				137.6	-68.6		466.35	474.5	Weak	Patchy	CH						548	549	29113	0.0025	0.0025	0.0025	59	32	548	549	29114	0.0025	0.0025	0.0025	52	241					
342	137.8				137.8	-68.6		472	472.8	Weak	Pervasive	CH	minor invol content					549	550	29115	0.037	0.0285	0.009	54	41	549	550	29116	0.037	0.0285	0.009	54	41					
345	137.9				137.9	-68.6												550	551	29116	0.009	0.015	0.017	42	107	550	551	29116	0.009	0.015	0.017	42	107					
348	137.8				137.8	-68.6												551	552	29117	0.0025	0.0025	0.0025	48	86	551	552	29117	0.0025	0.0025	0.0025	48	86					
351	137.9				137.9	-68.6		474.5	475.8	Moderate	Pervasive	CH						552	553	29118	0.018	0.015	0.0025	51	173	552	553	29118	0.018	0.015	0.0025	51	173					
354	138				138	-68.6		475.8	478.75	Weak	Patchy	CH						553	554	29119	0.032	0.023	0.0025	51	68	553	554	29119	0.032	0.023	0.0025	51	68					
357	138.1				138.1	-68.6		479	479.3	Weak	Pervasive	CH						448.15	447.5	PEG																		
360	138.2				138.2	-68.6		479.3	483.4	Weak	Patchy	CH						447.5	450.05	FG/MG																		
363	138.2				138.2	-68.5		485.75	485.3	Moderate	Patchy	M						450.05	451.8	MG																		
366	138.3				138.3	-68.6		485.75	485.3	Strong	Patchy	BT						452.1	453.9	POIK																		
369	138.4				138.4	-68.6		485.75	485.3	Strong	Patchy	CH						452.1	455.8	M																		
372	138.5				138.5	-68.5		486.95	490.65	Weak	Fract-Cont	SI	local qtz veins					452.1	457.1	MG/CG																		
375	138.5				138.5	-68.6												457.1	460.65	POBL	Ath																	
378	138.6				138.6	-68.5		486.95	490.65	Weak	Patchy	BT						457.1	460.65	MG	Qtz-PH-Bt metasediment																	
381	138.7				138.7	-68.5		486.95	490.65	Moderate	Patchy	CH																										
384	138.9				138.9	-68.5		490.65	493	Weak	Patchy	BT						466.35	474.5	FG	Q-F-par																	
387	139				139	-68.5		490.65	497.75	Strong	Pervasive	CH																										
390	139.2				139.2	-68.4		498.35	509.25	Weak	Fract-Cont	SI	local qtz veins																									
393	139.4				139.4	-68.4																																
396	139.6				139.6	-68.3		498.35	509.25	Strong	Pervasive	CH						474.5	475.8	FG	mixture of																	
399	139.8				139.8	-68.3		509.25	524.35	Weak	Patchy	CH																										
402	139.9				139.9	-68.3		528.7	528.93	Strong	Patchy	BT	vein																									
405	140				140	-68.2							contains Bt																									
408	140.2				140.2	-68.2		528.7	528.93	Strong	Pervasive	SI																										
411	140.5				140.5	-68.2		528.93	525.6	Weak	Fract-Cont	SI	local thin mm size qtz veins					475.8	478.75	FG	Q-F metased, minor Bt, Ch'																	
414	140.6				140.6	-68.2																																
417	140.7				140.7	-68.2																																
420	140.9				140.9	-68.1																																
423	141.1				141.1	-68.1		528.93	525.6	Weak	Pervasive	BT																										
426	141.2				141.2	-68		528.93	525.6	Strong	Pervasive	CH																										
429	141.4				141.4	-68		554.5	569.55	Weak	Fract-Cont	SI																										

Start Date: 28/Jan/08

Hole: HN-08-79

Southampton Ventures Inc.

Northing: 5647132

Depth: 583 m

Completion Date: 30/Jan/08

Project: SV-HDN

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Easting: 303233

Elevation: 257.837m

Azimuth: 124

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Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays										
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm	
	432				141.5	-68		572.85	584.45	Weak	Fract-Cont	SI						479	479.3	FG	white-green tuff, gradual contact with pelites"							314.4	315	30987	0.0025	0.0025	0.0025	56	156		
	435				141.7	-65.9		572.85	584.45	Strong	Pervasive	CH																315	315	30988	0.0025	0.0025	0.0025	40	19		
	436				141.9	-65.8		577.9	578.3	Strong	Fract-Cont	SI																316	316.9	30989	0.0025	0.0025	0.0025	32	38		
	441				141.9	-65.8		585.6	585.5	Weak	Fract-Cont	SI																		30990	0.4045	3.656	0.2225	1390	1280		
	444				142	-65.8		585.6	585.5	Moderate	Pervasive	CH						479.3	483.4	POBL	Crd							340	341	30991	0.0025	0.0025	0.0025	57	26		
	447				142.2	-65.7												478.3	483.4	FG	Bl-schists, minor Chl"							341	341.5	30992	0.0025	0.0025	0.0025	59	7		
	450				142.2	-65.6																						341.5	342	30993	0.0025	0.0025	0.0025	93	163		
	453				142.3	-65.6												483.4	486.95	POBL	Ath							342	343	30994	0.0375	0.1285	0.0025	251	73		
	456				142.3	-65.5												483.4	486.95	FG	Q-F increased							343	344	30995	0.011	0.057	0.0025	260	218		
	459				142.5	-65.4												485.75	485.3	FG/MG	locally recrystallized							344	344.5	30996	0.116	0.201	0.024	433	818		
	462				142.6	-65.4																						350	350.7	30997	0.01	0.093	0.0025	334	259		
	465				142.4	-65.1																						350.7	351.3	30998	0.018	0.129	0.0025	188	356		
	468				142.5	-65.2																						351.3	352	30999	0.0025	0.063	0.0025	305	301		
	471				142.6	-65												486.95	489	POBL	amphibole, poss Ath, minor									31000	0.097	0.138	0.049	18700	8650		
	474				142.7	-65																															
	477				142.8	-64.9												486.95	490.65	FG	interlayered																
	480				142.8	-64.8																															
	483				142.9	-64.7																															
	486				143.2	-64.7												490.65	497.75	FG	mafic metatuff, minor rnsed"																
	489				143.3	-64.6																															
	492				143.4	-64.6																															
	495				143.6	-64.5												497.75	498.35	M																	
	496				143.8	-64.4												497.75	498.35	FG/MG	Qtz-rich metasediment, gradual contact with mvol"																
	501				144	-64.2																															
	504				144.2	-64.1																															
	507				144.3	-63.9																															
	510				144.6	-63.8																															
	513				144.7	-63.8												498.35	509.25	FG																	
	516				144.7	-63.7												508.25	524.36	POBL	Crd																
	519				144.7	-63.6												508.25	520	FG	Bl-Ms Crd schist, minor Chl"																
	522				144.8	-63.5																															
	525				144.9	-63.3												520	524.36	FG	Bl rich metasediment, gradual contact with mvol"																
	528				144.9	-63.1																															
	531				144.9	-62.9																															
	534				145.1	-62.7												526.45	528.36	FG	to metapelite																
	537				145.3	-62.5																															

Start Date: 28/Jan/08

Hole: HN-08-79

Southampton Ventures Inc.

Northing: 6647132

Depth: 693 m

Completion Date: 30/Jan/08

Project: SV-HDN

Diamond Core Log Sheet

Easting: 303233

Elevation: 257.837m

Azimuth: 124

Property: Horden Lake

Projection: UTM NAD83 Zone

Hole Diameter: NQ

Dip: -58.8

Logged By: landry

Supervisor: []

Survey Method: Reflex Maxibor

Date: 26/04/2008

Storage Location: Horden Lake

Depth		Rock Codes		Rock Description	Survey				Alteration				Structure				Texture				Mineralization						Assays												
From	To	Rock	Qual		Depth	Azimuth	Dip	Mag Field	From	To	Intensity	Style	Type	Comments	From	To	Core Axis	Type	From	To	Texture	Comments	From	To	Style	Type	%	Comments	From	To	Sample	Pt_ppm	Pd_ppm	Au_ppm	Ni_ppm	Cu_ppm			
																		584.45	588.6	FG	Qtz-Fp-Bt melased, minor Chl"																		
																		586.6	589.5	FG																			
																		589.5	592.87	POBL	Gr																		
																		589.5	592.87	FG/MG	Qtz-Fp-Bt melased																		



Date Submitted: 28-Feb-08
Invoice No.: A08-0933
Invoice Date: 14-Apr-08
Your Reference: DOSSIER 21354

Expert Lab
127 Boul Industriel
Rouyn-Noranda Quebec J9X 6P2
Canada

ATTN: Evie Lafreniere

CERTIFICATE OF ANALYSIS

90 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-0933**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Activation Laboratories Ltd. Report: A08-0933

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm 0.2	ppm 0.5	ppm 1	ppm 2	ppm 2	ppm 1	ppm 2	ppm 1	% 0.01	ppm 10	ppm 1	ppm 1	ppm 10	% 0.01	ppm 1	ppm 2	% 0.01	% 0.01	% 0.01	% 0.01	% 0.01	ppm 10	ppm 1	ppm 10
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23001	< 0.2	< 0.5	71	87	3	33	9	7	6.60	20	21	< 1	< 10	4.34	5	166	0.85	0.03	0.75	0.91	0.006	< 10	3	< 10
23002	< 0.2	< 0.5	103	196	2	231	3	20	9.11	13	23	< 1	< 10	5.56	28	164	2.61	0.05	2.64	0.46	0.003	< 10	3	< 10
23003	< 0.2	< 0.5	223	224	< 2	478	< 2	38	2.88	< 10	25	< 1	< 10	0.98	55	170	3.87	0.07	4.12	0.11	0.019	< 10	4	< 10
23004	< 0.2	< 0.5	67	360	< 2	139	2	24	6.21	< 10	13	< 1	< 10	4.19	18	328	2.92	0.06	2.66	0.48	0.002	< 10	4	< 10
23005	< 0.2	< 0.5	109	326	< 2	112	5	21	6.80	< 10	14	< 1	< 10	4.49	17	336	2.78	0.05	2.62	0.59	0.004	< 10	3	< 10
23006	0.3	< 0.5	31	458	< 2	128	7	28	4.92	< 10	8	< 1	< 10	4.25	18	421	2.83	0.03	2.90	0.16	0.002	< 10	3	< 10
23007																								
23008	0.4	< 0.5	481	163	2	284	2	15	3.75	< 10	12	< 1	< 10	3.04	28	126	1.86	0.02	1.90	0.21	0.010	< 10	3	< 10
23009	0.3	< 0.5	383	140	3	142	3	17	7.71	< 10	15	< 1	< 10	5.41	16	135	1.75	0.05	1.93	0.37	0.003	< 10	3	< 10
23010																								
23011	< 0.2	< 0.5	448	325	< 2	780	< 2	38	3.43	< 10	6	< 1	< 10	0.48	67	161	5.02	< 0.01	5.39	0.04	0.003	< 10	2	< 10
23012	< 0.2	< 0.5	315	121	< 2	1200	< 2	13	0.60	< 10	8	< 1	< 10	0.78	52	123	1.43	0.02	1.25	0.06	0.002	< 10	4	< 10
23013	< 0.2	< 0.5	56	157	< 2	473	5	22	0.79	< 10	21	< 1	< 10	0.93	20	373	1.62	0.17	1.98	0.10	< 0.001	< 10	6	< 10
23014	< 0.2	< 0.5	85	163	2	615	< 2	39	1.58	< 10	58	< 1	< 10	0.62	25	633	2.34	0.53	3.01	0.12	0.004	< 10	6	< 10
23015	1.0	0.5	1050	106	< 2	897	7	14	0.41	< 10	56	< 1	< 10	4.04	41	599	2.25	0.21	2.20	0.56	0.003	< 10	3	< 10
23016	1.3	0.5	1740	96	< 2	1360	6	23	6.45	< 10	19	< 1	< 10	4.31	61	248	3.10	0.04	1.39	0.60	0.003	< 10	2	< 10
23017	2.0	0.7	2190	117	< 2	867	6	24	6.43	< 10	13	< 1	< 10	4.65	44	118	2.03	0.02	1.02	0.65	0.003	< 10	3	< 10
23018	2.0	1.3	2270	166	3	766	8	27	6.62	< 10	18	< 1	< 10	4.89	40	169	2.48	0.03	1.66	0.70	0.003	< 10	4	< 10
23019	0.8	0.5	1170	124	2	893	9	15	8.21	< 10	16	< 1	< 10	4.65	47	108	2.20	0.02	1.18	0.70	0.002	< 10	3	< 10
23020	0.7	< 0.5	1600	314	< 2	1490	20	27	6.07	< 10	25	< 1	< 10	2.96	54	168	4.04	0.03	3.91	0.42	0.003	< 10	3	< 10
23021	1.3	0.6	1830	139	< 2	1160	7	18	7.51	< 10	21	< 1	< 10	5.10	62	87	2.58	0.03	1.20	0.93	0.003	< 10	2	< 10
23022	1.2	< 0.5	1740	125	< 2	1140	9	17	6.91	< 10	18	< 1	< 10	4.68	59	66	2.42	0.02	1.00	0.83	0.003	< 10	2	< 10
23023	0.8	0.7	946	146	< 2	602	10	25	7.05	< 10	20	< 1	< 10	4.74	32	115	2.13	0.02	1.66	0.58	0.003	< 10	2	< 10
23024	0.7	< 0.5	890	124	< 2	463	9	18	7.39	< 10	20	< 1	< 10	6.24	27	117	1.73	0.02	1.34	0.67	0.003	< 10	3	< 10
23025	0.5	< 0.5	487	168	< 2	415	11	14	6.21	< 10	16	< 1	< 10	4.51	24	127	1.52	0.02	1.20	0.76	0.002	< 10	3	< 10
23026	1.1	< 0.5	1210	172	2	460	11	20	6.34	< 10	15	< 1	< 10	4.62	30	128	1.83	0.02	1.29	0.73	0.003	< 10	4	< 10
23027	0.9	0.9	999	197	< 2	320	6	24	8.43	< 10	12	< 1	< 10	4.43	24	120	1.93	0.02	1.70	0.58	0.004	< 10	3	< 10
23028	5.7	1.1	4680	425	6	696	< 2	130	4.34	12	9	< 1	< 10	2.92	69	273	4.74	0.01	3.84	0.11	0.004	< 10	4	< 10
23029	2.3	1.0	2340	226	< 2	1050	11	35	5.62	< 10	26	< 1	< 10	3.95	53	167	2.82	0.03	1.70	0.64	0.006	< 10	4	< 10
23030	< 0.2	< 0.5	5	10	< 2	< 1	< 2	2	0.03	< 10	9	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10
23031	2.2	0.8	2070	228	< 2	984	9	34	5.46	< 10	25	< 1	< 10	3.84	49	168	2.80	0.03	1.74	0.60	0.006	< 10	4	< 10
23032	1.2	0.8	1150	223	< 2	1190	9	24	5.13	< 10	16	< 1	< 10	3.72	61	132	3.02	0.03	1.57	0.60	0.006	< 10	4	< 10
23033	1.1	0.5	990	193	< 2	664	9	21	5.60	< 10	18	< 1	< 10	3.90	40	109	2.17	0.03	1.40	0.63	0.004	< 10	3	< 10
23034	1.0	0.6	914	216	< 2	676	14	22	5.74	< 10	16	< 1	< 10	4.03	38	107	2.41	0.02	1.61	0.65	0.004	< 10	4	< 10
23035	0.7	0.5	789	163	2	944	9	15	5.84	< 10	16	< 1	< 10	4.28	50	93	2.34	0.02	1.19	0.73	0.002	< 10	4	< 10
23036	1.8	0.6	1610	237	2	715	6	27	5.65	< 10	16	< 1	< 10	4.03	51	115	2.99	0.02	1.65	0.66	0.005	< 10	5	< 10
23037	1.4	< 0.5	1560	221	2	788	11	24	5.62	< 10	14	< 1	< 10	3.95	69	96	3.80	0.02	1.45	0.62	0.003	< 10	4	< 10
23038	1.6	0.7	2000	259	2	1050	12	26	4.63	< 10	13	< 1	< 10	3.39	102	104	5.39	0.02	1.57	0.57	0.007	< 10	5	< 10
23039	1.2	1.0	1290	217	< 2	676	6	23	4.83	< 10	15	< 1	< 10	3.48	73	86	3.74	0.02	1.38	0.60	0.004	< 10	4	< 10
23040	0.8	< 0.5	1530	319	< 2	1480	7	27	5.97	< 10	26	< 1	< 10	2.97	54	170	4.06	0.03	3.93	0.42	0.003	< 10	3	< 10
23041	1.6	0.7	1870	323	< 2	1120	10	23	3.81	< 10	13	< 1	< 10	2.73	59	66	5.30	0.02	1.73	0.40	0.006	< 10	4	< 10
23042	1.4	1.0	1810	344	< 2	1120	10	22	4.11	< 10	12	< 1	< 10	2.81	100	102	6.82	0.02	1.92	0.40	0.006	< 10	5	< 10
23043	1.8	1.1	2100	495	2	1170	12	52	3.84	< 10	12	< 1	< 10	2.21	55	115	7.93	0.02	2.69	0.30	0.004	< 10	5	< 10
23044	1.1	0.7	1420	281	< 2	817	4	31	4.03	< 10	12	< 1	< 10	3.05	100	372	5.50	0.03	1.82	0.37	0.003	< 10	6	< 10
23045	1.8	< 0.5	1580	314	< 2	1320	3	35	2.65	< 10	13	< 1	< 10	0.98	109	869	7.01	0.03	3.81	0.09	0.004	< 10	4	< 10
23046	1.0	0.7	1040	296	< 2	1050	3	41	3.09	< 10	9	< 1	< 10	1.30	94	437	5.91	0.02	4.17	0.11	0.005	< 10	5	< 10
23047	0.9	< 0.5	889	249	< 2	1060	< 2	39	2.72	< 10	7	< 1	< 10	0.78	68	646	6.67	< 0.01	4.19	0.07	0.003	< 10	2	< 10
23048	0.4	0.7	429	317	< 2	542	4	35	4.82	< 10	17	< 1	< 10	3.16	42	256	3.58	0.06	2.77	0.23	0.010	< 10	3	< 10
23049	23.5	3.2	> 10000	217	< 2	2700	17	59	4.17	< 10	10	< 1	< 10	3.15	130	166	6.25	0.02	1.63	0.36	0.007	< 10	4	< 10
23050	< 0.2	< 0.5	12	9	< 2	2	< 2	1	0.03	< 10	10	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.02	0.004	< 10	< 1	< 10
23051	3.2	2.6	1750	167	< 2	1170	10	40	3.86	< 10	10	< 1	< 10	2.97	74	123	4.02	0.02	1.45	0.34	0.012	< 10	5	< 10
23052	2.9	1.4	1520	181	< 2	1130	14	34	4.36	< 10	13	< 1	< 10	3.37	70	143	3.65	0.02	1.60	0.37	0.004	< 10	4	< 10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
23053	0.9	0.9	331	255	<2	685	23	39	4.03	<10	36	<1	<10	2.31	51	109	4.39	0.02	1.61	0.56	0.10	<10	5	<10
23064	1.6	1.9	1290	241	<2	926	24	55	4.61	<10	26	<1	<10	3.26	69	90	4.96	0.02	1.60	0.53	0.099	<10	4	<10
23065	0.3	0.8	244	113	<2	243	22	20	4.91	<10	11	<1	<10	3.71	22	171	1.69	0.02	1.05	0.57	0.008	<10	4	<10
23066	0.6	0.8	386	136	<2	259	22	20	3.91	<10	12	<1	<10	2.96	31	97	1.97	0.02	0.93	0.59	0.018	<10	4	<10
23067	0.5	0.8	497	152	<2	223	19	26	3.82	<10	12	<1	<10	2.93	25	99	1.92	0.02	1.18	0.53	0.012	<10	4	<10
23068	2.1	1.2	1260	303	<2	1220	7	88	2.66	<10	11	<1	<10	1.43	84	286	5.15	0.03	3.59	0.13	0.007	<10	4	<10
23069	7.6	1.4	4410	279	<2	1280	7	63	2.95	<10	11	<1	<10	1.82	169	246	5.52	0.04	3.22	0.16	0.004	<10	4	<10
23090	0.8	<0.5	1530	324	<2	1650	10	28	5.96	<10	28	<1	<10	3.05	56	114	4.11	0.03	4.04	0.42	0.003	<10	3	<10
23061	2.4	1.2	1410	309	<2	1060	10	59	3.10	<10	14	<1	<10	1.92	94	262	4.56	0.05	3.02	0.18	0.017	<10	4	<10
23062	2.5	1.6	1450	287	<2	1150	3	82	2.89	<10	16	<1	<10	1.51	95	430	5.26	0.05	3.63	0.13	0.003	<10	4	<10
23083	1.4	1.2	791	287	<2	714	2	80	3.32	<10	19	<1	<10	1.44	52	334	4.81	0.07	4.53	0.14	0.006	<10	4	<10
23064	3.5	0.8	1920	279	<2	1100	7	57	3.05	<10	11	<1	<10	1.68	71	223	4.96	0.03	3.65	0.16	0.005	<10	4	<10
23065	2.1	2.5	1870	216	<2	1680	13	66	3.33	<10	10	<1	<10	2.64	102	44	5.09	0.02	1.35	0.48	0.005	<10	6	<10
23066	2.1	1.8	1770	115	<2	1630	28	85	4.93	<10	52	<1	<10	2.81	113	206	6.89	0.12	1.28	0.68	0.005	<10	5	<10
23067	3.7	2.5	2230	123	<2	901	21	136	5.60	<10	55	<1	<10	2.99	83	82	7.66	0.17	1.84	0.77	0.005	<10	5	<10
23069	0.7	0.8	536	287	<2	821	~2	178	4.72	<10	50	<1	<10	0.26	44	40	7.30	0.27	5.04	0.11	0.008	<10	7	<10
23069	1.4	1.2	510	273	4	299	<2	178	4.97	<10	66	<1	<10	0.18	34	112	6.16	0.37	5.59	0.10	0.005	<10	10	<10
23070	<0.2	<0.6	4	11	<2	~1	<2	2	0.04	<10	11	<1	<10	0.04	<1	3	0.06	0.01	0.02	0.02	0.004	<10	<1	<10
23071	0.5	0.8	198	84	2	131	12	29	2.72	<10	15	<1	<10	1.88	14	92	1.28	0.03	0.58	0.57	0.001	<10	2	<10
23072	7.1	4.0	1760	118	2	101	14	53	2.25	<10	16	<1	<10	1.38	20	112	1.87	0.03	0.65	0.40	0.003	<10	3	<10
23073	0.6	1.0	184	114	<2	104	7	38	3.20	<10	22	<1	<10	1.69	24	131	2.67	0.07	1.70	0.48	0.004	<10	3	<10
23074	0.8	0.9	195	101	<2	103	7	37	3.16	<10	22	<1	<10	1.67	21	130	2.64	0.07	1.69	0.48	0.004	<10	3	<10
23075	1.4	<0.5	878	179	2	853	7	41	3.50	<10	14	<1	<10	1.28	42	147	5.84	0.11	2.88	0.40	0.010	<10	6	<10
23076	1.2	<0.5	794	157	<2	1440	4	58	2.62	<10	48	<1	<10	0.41	86	131	7.52	0.20	3.17	0.14	0.010	<10	7	<10
23077	3.0	0.8	2370	139	<2	1520	4	80	3.50	<10	26	<1	<10	0.42	93	134	9.38	0.68	4.11	0.12	0.008	<10	8	<10
23078	<0.2	<0.6	76	137	3	97	6	35	3.63	<10	57	<1	<10	1.52	16	162	3.05	0.19	2.17	0.47	0.006	<10	5	<10
23079	1.7	1.2	704	204	3	200	2	47	3.30	<10	17	<1	<10	0.78	29	89	3.92	0.06	2.41	0.20	0.009	<10	5	<10
23080	0.8	<0.5	1600	322	<2	1510	8	30	6.15	<10	26	<1	<10	3.02	55	171	4.13	0.03	3.98	0.43	0.003	<10	3	<10
23081	4.0	1.4	1010	108	3	78	12	24	4.44	<10	24	<1	<10	2.28	13	88	1.66	0.09	1.27	0.72	0.009	<10	3	<10
23082	14.5	3.9	5450	407	<2	902	2	68	2.61	<10	15	<1	<10	0.88	94	80	11.9	0.03	2.82	0.06	0.017	<10	6	<10
23083	8.6	6.6	3240	187	3	647	4	55	2.74	<10	14	<1	<10	0.99	46	73	8.72	0.03	1.82	0.17	0.018	<10	3	<10
23084	5.3	2.1	1570	264	2	381	16	65	3.02	<10	15	<1	<10	1.45	39	87	4.68	0.03	1.90	0.29	0.019	<10	4	<10
23085	1.4	2.5	415	230	3	91	26	79	2.18	<10	15	<1	<10	1.08	23	80	2.67	0.03	1.45	0.26	0.019	<10	3	<10
23086	1.5	0.8	474	113	2	112	54	36	6.61	<10	78	<1	<10	4.00	24	76	2.36	0.20	1.52	0.61	0.013	<10	3	<10
23087	5.8	1.5	1990	303	3	106	8	90	5.39	<10	75	<1	<10	0.79	23	102	7.20	0.38	5.20	0.15	0.007	<10	10	<10
23088	3.3	1.1	611	591	<2	216	14	43	2.60	<10	11	<1	<10	2.11	44	81	4.26	0.02	2.38	0.07	0.004	<10	7	<10
23089	8.4	1.4	1680	513	2	402	29	50	2.68	<10	9	<1	<10	1.96	70	76	4.78	0.01	2.35	0.06	0.006	<10	7	<10
23090	<0.2	<0.5	5	10	<2	1	<2	1	0.04	<10	10	<1	<10	0.04	<1	3	0.06	0.01	0.02	0.02	0.004	<10	<1	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23001	111	0.02	14	< 10	< 1	< 1	0.047
23002	108	0.02	19	< 10	< 1	< 1	0.158
23003	4	0.08	27	< 10	1	1	0.227
23004	83	0.04	34	< 10	1	< 1	0.047
23005	86	0.03	27	< 10	< 1	< 1	0.051
23006	31	0.02	27	< 10	< 1	< 1	0.033
23007							
23008	53	0.03	22	< 10	1	2	0.158
23009	116	0.03	20	< 10	< 1	< 1	0.083
23010							
23011	2	0.03	27	< 10	1	2	0.264
23012	4	0.01	25	< 10	2	4	0.429
23013	3	0.03	49	< 10	4	8	0.103
23014	7	0.07	40	17	5	11	0.118
23015	87	0.04	43	< 10	1	1	0.432
23016	87	< 0.01	17	< 10	< 1	1	1.154
23017	94	< 0.01	13	< 10	< 1	< 1	0.849
23018	100	0.01	16	< 10	< 1	< 1	0.768
23019	97	< 0.01	13	< 10	< 1	< 1	0.827
23020	71	0.02	35	< 10	< 1	1	0.510
23021	117	< 0.01	13	< 10	< 1	< 1	1.072
23022	109	< 0.01	10	< 10	< 1	< 1	1.070
23023	95	0.01	14	< 10	< 1	< 1	0.488
23024	108	0.01	16	< 10	< 1	< 1	0.434
23025	101	0.01	15	< 10	< 1	< 1	0.374
23026	103	0.01	17	< 10	< 1	< 1	0.961
23027	92	0.01	16	< 10	< 1	< 1	0.358
23028	15	0.02	32	< 10	< 1	2	0.934
23029	99	0.02	21	< 10	< 1	1	0.808
23030	2	< 0.01	< 1	< 10	1	4	0.019
23031	85	0.02	23	< 10	< 1	1	0.808
23032	84	0.02	22	< 10	< 1	1	1.027
23033	81	0.01	17	< 10	< 1	< 1	0.620
23034	87	0.01	19	< 10	< 1	< 1	0.585
23035	98	0.01	17	< 10	< 1	< 1	0.808
23036	87	0.02	24	< 10	< 1	1	0.950
23037	88	0.02	22	< 10	< 1	1	1.282
23038	82	0.02	27	< 10	< 1	2	2.236
23039	82	0.02	21	< 10	< 1	1	1.462
23040	72	0.02	35	< 10	< 1	1	0.909
23041	82	0.03	26	< 10	< 1	3	2.715
23042	67	0.03	32	< 10	< 1	3	2.721
23043	47	0.03	29	< 10	1	3	2.812
23044	60	0.03	36	< 10	1	2	1.835
23045	5	0.07	48	< 10	< 1	2	2.120
23046	6	0.04	31	< 10	< 1	2	1.467
23047	2	0.04	29	< 10	< 1	2	1.768
23048	58	0.03	20	< 10	< 1	2	0.481
23049	57	0.02	19	< 10	< 1	2	3.572
23050	1	< 0.01	< 1	< 10	1	3	0.018
23051	59	0.03	24	< 10	< 1	2	1.516
23052	71	0.02	16	< 10	< 1	1	1.308

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23053	63	0.05	37	< 10	2	2	1.283
23064	69	0.03	29	< 10	1	2	1.669
23065	88	0.03	21	< 10	< 1	< 1	0.320
23066	71	0.04	22	< 10	2	1	0.516
23067	69	0.03	21	< 10	1	1	0.376
23068	11	0.04	25	< 10	< 1	2	1.376
23069	19	0.02	25	< 10	< 1	2	2.320
23060	74	0.02	36	< 10	< 1	1	0.923
23061	28	0.04	31	< 10	2	2	1.209
23062	8	0.04	34	< 10	< 1	2	1.904
23063	10	0.05	35	< 10	1	2	0.715
23064	19	0.03	30	< 10	< 1	2	1.132
23065	58	0.02	24	< 10	< 1	2	2.690
23066	76	0.06	129	< 10	1	2	2.590
23067	79	0.07	167	< 10	< 1	2	2.417
23068	24	0.04	96	< 10	< 1	2	1.477
23069	12	0.07	156	< 10	< 1	2	0.594
23070	2	< 0.01	< 1	< 10	1	4	0.018
23071	49	0.05	47	< 10	< 1	< 1	0.294
23072	38	0.05	60	< 10	< 1	< 1	0.366
23073	40	0.06	123	< 10	< 1	< 1	0.223
23074	40	0.06	123	< 10	< 1	< 1	0.223
23075	33	0.08	134	< 10	2	2	1.621
23076	11	0.10	148	< 10	2	3	2.909
23077	11	0.12	175	< 10	1	3	2.631
23078	33	0.11	139	< 10	1	< 1	0.108
23079	13	0.07	133	< 10	1	1	0.536
23080	73	0.02	36	< 10	< 1	1	0.519
23081	48	0.05	76	< 10	1	< 1	0.207
23082	8	0.05	66	< 10	3	5	3.067
23083	14	0.06	146	< 10	2	4	2.366
23084	19	0.07	80	< 10	2	2	1.153
23085	13	0.08	79	< 10	3	1	0.374
23086	57	0.05	91	< 10	1	< 1	0.449
23087	24	0.07	107	< 10	1	2	1.217
23088	22	0.06	64	< 10	1	2	0.853
23089	21	0.05	56	< 10	1	2	1.581
23090	1	< 0.01	< 1	< 10	1	3	0.019

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	23.8	2.1	1130	718	13	31	847	598	0.48	321	347	<1	1340	0.77	7	5	24.0	0.03	0.18	0.11	0.033	89	<1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.2	0.5	6720	135	315	40	42	59	2.66	99	44	1	20	0.91	13	55	3.55	1.48	1.83	0.14	0.117	<10	7	<10
GXR-4 Cert	4.00	0.860	6920	155	310	42.0	52.0	73.0	2.70	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.0	4.4	83	1050	<2	17	755	553	3.36	14	1240	1	<10	0.81	9	24	2.19	0.58	0.59	0.37	0.055	34	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.2	< 0.5	76	1050	< 2	25	95	121	7.05	244	927	< 1	< 10	0.16	14	81	5.62	0.98	0.45	0.23	0.032	< 10	22	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2960				2320										6.46							
OREAS 13P Cert			2500				2280										7.58							
23003 Ong	< 0.2	< 0.5	222	223	< 2	482	< 2	39	2.67	< 10	24	< 1	< 10	0.98	56	173	3.64	0.07	4.11	0.11	0.019	< 10	4	< 10
23003 Dup	< 0.2	< 0.5	224	225	< 2	473	< 2	37	2.66	< 10	25	< 1	< 10	0.98	55	167	3.70	0.07	4.13	0.11	0.019	< 10	4	< 10
23016 Ong	1.4	0.5	1760	96	< 2	1370	6	24	6.44	< 10	19	< 1	< 10	4.30	61	246	3.11	0.04	1.35	0.60	0.003	< 10	2	< 10
23016 Dup	1.3	0.8	1710	96	< 2	1360	6	22	6.45	< 10	19	< 1	< 10	4.32	61	249	3.09	0.04	1.35	0.60	0.003	< 10	2	< 10
23030 Ong	< 0.2	< 0.5	7	10	< 2	2	< 2	2	0.04	< 10	9	< 1	< 10	0.04	1	3	0.07	0.01	0.02	0.02	0.004	< 10	< 1	< 10
23030 Dup	< 0.2	< 0.5	4	10	< 2	< 1	< 2	1	0.03	< 10	9	< 1	< 10	0.03	< 1	2	0.05	0.01	0.02	0.02	0.004	< 10	< 1	< 10
23053 Ong	1.0	1.1	844	251	2	701	25	41	4.07	< 10	37	< 1	< 10	2.87	54	111	4.47	0.02	1.64	0.56	0.010	< 10	5	< 10
23053 Dup	0.9	0.8	818	249	< 2	670	21	38	4.00	< 10	36	< 1	< 10	2.75	59	107	4.31	0.02	1.58	0.56	0.009	< 10	5	< 10
23067 Ong	3.8	2.3	2230	123	< 2	888	21	135	5.85	< 10	56	< 1	< 10	2.98	83	82	7.53	0.17	1.81	0.78	0.005	< 10	5	< 10
23067 Dup	3.7	2.8	2240	124	< 2	914	21	126	5.55	< 10	54	< 1	< 10	3.01	83	82	7.83	0.18	1.87	0.76	0.005	< 10	5	< 10
23060 Ong	0.8	< 0.5	1570	321	< 2	1510	7	30	6.03	< 10	26	< 1	< 10	3.03	54	173	4.14	0.03	3.86	0.43	0.003	< 10	3	< 10
23060 Dup	0.7	< 0.5	1630	323	< 2	1510	10	29	6.28	< 10	26	< 1	< 10	3.02	55	170	4.12	0.03	4.01	0.44	0.003	< 10	3	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	150		72	122	22	16	0.182
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	71		62	14	12	10	1.831
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77
GXR-2 Meas	52		47	< 10	11	11	0.036
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	32		175	< 10	6	14	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
23003 Orig	4	0.06	27	< 10	1	1	0.228
23003 Dup	4	0.05	26	< 10	1	1	0.228
23016 Orig	87	< 0.01	16	< 10	< 1	1	1.160
23016 Dup	87	< 0.01	17	< 10	< 1	1	1.148
23030 Orig	2	< 0.01	< 1	< 10	1	4	0.022
23030 Dup	1	< 0.01	< 1	< 10	1	4	0.017
23053 Orig	64	0.05	36	< 10	2	3	1.312
23053 Dup	62	0.05	37	< 10	2	2	1.254
23067 Orig	79	0.07	166	< 10	< 1	2	2.399
23067 Dup	79	0.07	166	< 10	< 1	2	2.435
23060 Orig	73	0.02	36	< 10	< 1	1	0.519
23060 Dup	73	0.02	36	< 10	< 1	1	0.519
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 28-Feb-08
Invoice No.: A08-0934
Invoice Date: 14-Apr-08
Your Reference: DOSSIER 21355

Expert Lab
127 Boul Industriel
Rouyn-Noranda Quebec J9X 6P2
Canada

ATTN: Evie Lafreniere

CERTIFICATE OF ANALYSIS

90 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-0934**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

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Activation Laboratories Ltd. Report: A08-0934

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
23091	9.6	1.0	2530	397	< 2	99	15	39	3.06	< 10	7	< 1	< 10	2.19	23	56	3.05	0.02	2.14	0.08	0.005	< 10	6	< 10	
23092	4.2	1.3	1710	152	6	46	3	30	2.75	< 10	58	< 1	< 10	0.06	5	91	2.18	0.76	2.64	0.06	0.003	< 10	5	< 10	
23093	2.3	< 0.5	1030	149	8	57	8	27	3.00	< 10	41	< 1	< 10	0.07	11	93	2.35	0.85	2.93	0.06	0.003	< 10	2	< 10	
23094	2.6	< 0.5	1310	218	3	51	< 2	41	4.05	< 10	76	< 1	< 10	0.49	11	114	4.75	0.75	4.93	0.06	0.007	< 10	12	< 10	
23095	4.8	1.3	1960	180	4	59	4	40	3.85	< 10	85	< 1	< 10	0.12	15	133	3.72	0.88	3.85	0.06	0.006	< 10	10	< 10	
23096	13.6	3.5	4580	257	< 2	59	3	46	3.68	< 10	22	< 1	< 10	0.11	15	50	4.44	0.23	4.34	0.04	0.010	< 10	9	< 10	
23097	< 0.2	< 0.5	91	205	4	6	4	24	3.05	< 10	55	< 1	< 10	0.08	3	56	2.40	0.34	3.14	0.06	0.003	< 10	4	< 10	
23098	0.8	< 0.5	215	193	3	16	3	31	3.35	< 10	67	< 1	< 10	0.09	6	48	3.06	0.46	3.36	0.06	0.014	< 10	5	< 10	
23099	< 0.2	< 0.5	> 40	279	4	6	4	39	3.34	< 10	72	< 1	< 10	0.24	6	50	3.36	0.27	2.85	0.09	0.026	< 10	4	< 10	
23100	0.5	< 0.5	1030	308	< 2	1460	10	28	5.66	< 10	24	< 1	< 10	2.87	54	169	3.90	0.03	3.76	0.41	0.003	< 10	3	< 10	
23101	0.8	< 0.5	325	205	6	8	9	38	2.90	< 10	23	< 1	< 10	0.77	10	83	3.12	0.08	1.89	0.21	0.051	< 10	3	< 10	
23102	< 0.2	< 0.5	57	287	7	9	5	56	3.00	< 10	170	< 1	< 10	0.22	7	69	3.56	0.52	2.45	0.10	0.024	< 10	5	< 10	
23103	3.1	1.2	871	509	3	84	19	85	3.60	< 10	72	< 1	< 10	0.40	16	53	5.04	0.25	3.63	0.10	0.025	< 10	8	< 10	
23104	13.7	3.4	3970	439	3	86	14	114	3.12	< 10	45	< 1	< 10	0.45	19	79	5.17	0.20	4.11	0.06	0.029	< 10	9	< 10	
23105	20.3	3.2	5050	475	< 2	225	13	137	4.10	< 10	50	< 1	< 10	0.50	31	70	5.77	0.26	4.66	0.07	0.031	< 10	10	< 10	
23106	14.4	6.0	3290	449	< 2	169	23	216	4.01	< 10	99	< 1	< 10	0.48	26	66	6.93	0.45	4.61	0.11	0.028	< 10	11	< 10	
23107	7.7	7.9	2040	335	6	87	35	198	2.94	< 10	103	< 1	< 10	0.55	19	79	4.75	0.44	2.79	0.11	0.017	< 10	6	< 10	
23108	1.9	4.5	1060	552	3	223	36	344	3.67	< 10	119	< 1	< 10	0.67	31	60	8.06	0.63	3.67	0.12	0.040	< 10	11	< 10	
23109	1.4	2.0	1400	231	5	324	42	157	3.25	< 10	35	< 1	< 10	1.88	41	115	4.61	0.14	1.33	0.50	0.028	< 10	3	< 10	
23110																									
23111	6.1	1.5	7480	118	2	4150	37	125	2.05	< 10	16	< 1	< 10	0.68	271	76	23.4	0.13	1.32	0.24	0.014	< 10	3	< 10	
23112	4.7	1.2	5100	91	< 2	553	44	104	3.55	< 10	16	< 1	< 10	1.89	67	51	4.98	0.55	1.18	0.51	0.021	< 10	2	< 10	
23113	0.2	0.5	268	54	3	61	66	49	4.52	< 10	15	< 1	< 10	2.91	7	87	1.14	0.05	0.45	0.85	0.016	< 10	1	< 10	
23114	3.8	1.3	5080	176	2	444	63	165	4.19	< 10	35	< 1	< 10	2.11	36	98	6.49	0.10	1.65	0.60	0.019	< 10	4	< 10	
23115	< 0.2	0.5	133	186	4	90	30	210	3.18	< 10	31	< 1	< 10	1.10	15	144	3.97	0.16	1.76	0.33	0.017	< 10	3	< 10	
23116	3.6	3.0	4070	581	< 2	574	31	444	3.97	< 10	15	< 1	< 10	0.92	77	106	12.0	0.09	3.28	0.13	0.020	< 10	7	< 10	
23117	7.1	3.7	7480	454	3	1430	18	420	2.94	< 10	13	< 1	< 10	0.85	609	101	20.2	0.07	2.80	0.08	0.015	< 10	6	< 10	
23118	12.6	1.7	> 10000	405	< 2	2670	28	247	2.61	< 10	14	< 1	< 10	0.47	653	47	25.2	0.17	2.47	0.04	0.025	< 10	9	< 10	
23119	6.9	1.9	5980	369	2	2070	35	339	2.48	< 10	28	< 1	< 10	0.92	143	49	17.1	0.28	2.28	0.08	0.031	< 10	5	< 10	
23120	0.5	< 0.5	1580	308	< 2	1520	11	27	6.08	< 10	23	< 1	< 10	2.88	54	162	3.96	0.03	3.81	0.42	0.003	< 10	3	< 10	
23121	7.2	0.7	7090	306	5	2070	41	226	2.66	< 10	19	< 1	< 10	0.63	83	72	15.9	0.41	2.18	0.10	0.035	< 10	6	< 10	
23122	4.1	0.8	3900	418	3	1100	57	238	2.88	< 10	27	< 1	< 10	0.54	131	42	13.8	0.25	2.39	0.07	0.033	< 10	6	< 10	
23123	9.1	1.2	9270	318	5	2200	64	302	2.50	< 10	15	< 1	< 10	0.35	121	84	17.2	0.39	2.25	0.06	0.022	< 10	5	< 10	
23124	1.0	1.3	995	407	6	361	52	283	3.12	< 10	87	< 1	< 10	0.61	38	85	7.23	0.51	2.78	0.09	0.021	< 10	7	< 10	
23125	1.9	1.0	1440	489	4	354	63	238	3.44	< 10	43	< 1	< 10	0.71	54	84	5.26	0.30	3.01	0.09	0.021	< 10	9	< 10	
23126	5.1	2.2	4560	514	3	1790	97	357	3.05	< 10	26	< 1	< 10	1.25	132	62	17.0	0.23	2.95	0.04	0.019	< 10	8	< 10	
23127	0.4	1.2	210	308	3	3/2	24	255	3.85	< 10	27	< 1	< 10	2.42	28	166	9.50	0.12	4.15	0.03	0.040	< 10	17	< 10	
23128	< 0.2	< 0.5	114	1050	< 2	91	< 2	83	3.71	< 10	14	< 1	< 10	9.35	27	163	8.54	0.05	3.67	0.02	0.024	< 10	17	< 10	
23129	< 0.2	0.9	126	1000	2	84	9	152	4.05	< 10	21	< 1	< 10	4.62	28	186	9.66	0.08	3.78	0.03	0.032	< 10	19	< 10	
23130	< 0.2	< 0.5	6	10	< 2	< 1	< 2	2	0.04	< 10	0.1	< 1	< 10	0.04	< 1	3	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10	
23131	7.3	18.7	7060	256	< 2	7540	67	1240	0.85	< 10	11	7	< 1	< 10	0.31	282	19	43.0	0.21	0.72	0.02	0.010	10	2	13
23132	< 0.2	< 0.5	98	452	8	92	43	201	2.50	< 10	179	< 1	< 10	0.55	12	102	4.39	0.82	1.93	0.09	0.034	< 10	6	< 10	
23133	< 0.2	< 0.5	70	512	8	262	26	185	3.23	< 10	127	< 1	< 10	0.98	83	95	4.83	1.04	2.24	0.15	0.027	< 10	5	< 10	
23134	< 0.2	< 0.5	10	585	6	91	22	158	2.57	< 10	85	< 1	< 10	0.90	23	85	3.84	0.54	2.07	0.06	0.029	< 10	5	< 10	
23135	< 0.2	< 0.5	23	527	7	20	64	159	2.25	< 10	80	< 1	< 10	0.42	9	98	3.85	0.46	1.80	0.06	0.031	< 10	5	< 10	
23135	34.2	29.5	> 10000	177	< 2	7210	2.7	1080	0.40	< 10	12	10	< 1	14	0.06	357	29	43.1	0.07	0.28	0.01	0.012	14	< 1	16
23137	30.0	26.1	> 10000	180	< 2	6960	95	879	0.41	< 10	16	< 1	< 10	0.09	268	26	40.5	0.07	0.23	0.02	0.010	< 10	< 1	15	
23138	20.4	13.3	> 10000	188	< 2	7380	37	513	0.45	< 10	19	< 1	< 10	0.06	635	27	42.9	0.09	0.38	0.03	0.008	11	< 1	14	
23139	2.3	4.3	2790	735	4	257	19	955	3.84	< 10	20	< 1	< 10	0.35	55	56	10.4	0.08	3.66	0.03	0.013	< 10	5	< 10	
23140	0.6	< 0.5	1560	310	< 2	1520	3	31	5.98	< 10	23	< 1	< 10	2.89	54	163	4.04	0.03	3.84	0.41	0.003	< 10	3	< 10	
23141	11.9	12.1	> 10000	597	3	2430	68	2030	2.82	< 10	19	7	< 1	< 10	1.67	479	117	28.0	0.04	2.31	0.01	0.035	< 10	7	20
23142	3.4	1.8	2670	542	3	1190	75	335	2.83	< 10	19	< 1	< 10	2.38	58	65	11.1	0.15	2.36	0.03	0.060	< 10	8	< 10	

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
23143	0.2	< 0.5	207	457	5	81	18	109	2.39	< 10	30	< 1	< 10	2.57	13	74	4.30	0.17	2.35	0.03	0.041	< 10	5	< 10
23144	< 0.2	< 0.5	46	60	17	26	2	9	0.11	< 10	7	< 1	< 10	0.07	2	242	0.46	< 0.01	0.10	0.02	< 0.001	< 10	< 1	< 10
23145	< 0.2	< 0.5	19	534	6	33	7	75	3.60	< 10	30	< 1	< 10	0.13	12	75	5.85	0.15	3.81	0.04	0.025	< 10	5	< 10
23146	1.6	1.6	1850	498	4	526	97	327	3.22	< 10	66	< 1	< 10	0.72	37	86	7.20	0.46	2.78	0.15	0.061	< 10	11	< 10
23147	1.4	1.5	1640	500	6	429	87	280	3.06	< 10	52	< 1	< 10	1.21	72	107	7.80	0.39	2.84	0.15	0.066	< 10	12	< 10
23148	< 0.2	< 0.5	27	252	7	20	5	54	1.61	< 10	34	< 1	< 10	0.10	5	95	2.29	0.15	1.61	0.03	0.13	< 10	2	< 10
23149	< 0.2	< 0.5	144	374	8	204	6	77	2.26	< 10	56	< 1	< 10	0.19	9	84	3.30	0.32	2.28	0.04	0.018	< 10	3	< 10
23160	< 0.2	< 0.5	5	12	< 2	2	< 2	2	0.04	< 10	11	< 1	< 10	0.04	< 1	3	0.07	0.01	0.02	0.02	0.004	< 10	< 1	< 10
23151	< 0.2	< 0.5	65	434	9	17	41	115	2.30	< 10	62	< 1	< 10	0.69	8	123	3.23	0.38	1.89	0.07	0.021	< 10	3	< 10
23162	< 0.2	< 0.5	24	507	6	29	54	132	2.31	< 10	56	< 1	< 10	0.70	9	100	3.49	0.34	1.66	0.07	0.029	< 10	3	< 10
23163	1.1	1.2	2290	113	19	47	36	1070	0.35	< 10	12	< 1	< 10	0.18	10	259	1.21	0.04	0.22	0.02	0.018	< 10	< 1	< 10
23164	14.9	15.0	> 10000	438	5	1420	57	2030	1.61	< 10	13	< 1	< 10	0.17	252	69	15.2	0.14	1.15	0.02	0.019	< 10	3	19
23165	7.9	14.2	4250	395	3	3650	131	958	1.24	< 10	19	< 1	21	0.28	946	70	32.0	0.28	0.93	0.03	0.013	< 10	3	21
23166	3.8	18.7	2680	538	< 2	2100	102	1070	1.88	< 10	19	< 1	< 10	0.94	59	154	15.3	0.10	1.88	0.04	0.011	< 10	6	21
23167	0.4	< 0.5	212	522	6	95	67	159	2.61	< 10	72	< 1	< 10	1.30	28	204	4.35	0.48	2.66	0.07	0.016	< 10	9	< 10
23168	< 0.2	8.8	396	402	7	17	57	386	2.66	< 10	146	< 1	< 10	0.12	12	74	6.08	0.90	2.02	0.06	0.024	< 10	5	< 10
23159	< 0.2	0.8	121	563	7	19	38	383	2.68	< 10	93	< 1	< 10	0.72	13	98	5.19	0.46	2.79	0.06	0.028	< 10	9	< 10
23160	0.6	< 0.5	1560	310	< 2	1480	16	28	5.66	< 10	23	< 1	< 10	2.86	53	162	3.90	0.03	3.77	0.39	0.093	< 10	3	< 10
23161	7.0	7.1	8090	713	2	5050	68	2260	2.75	< 10	21	< 1	11	0.29	109	22	28.0	0.12	3.07	0.02	0.087	< 10	5	< 10
23162	1.8	1.0	2390	776	4	168	18	486	3.21	< 10	50	< 1	30	0.24	23	47	8.86	0.28	2.95	0.05	0.033	< 10	5	< 10
23163	0.3	0.5	337	521	6	68	9	204	2.93	< 10	105	< 1	19	0.39	17	71	7.09	0.46	2.33	0.07	0.053	< 10	6	< 10
23164	10.4	8.1	4330	493	8	442	10	1370	1.89	< 10	36	< 1	< 10	0.55	48	114	8.71	0.31	1.79	0.05	0.036	< 10	4	< 10
23165	< 0.2	< 0.5	41	472	5	29	4	100	2.60	< 10	60	< 1	< 10	1.31	10	120	3.71	0.33	2.25	0.05	0.019	< 10	7	< 10
23166	< 0.2	< 0.5	30	397	5	10	2	58	2.48	< 10	104	< 1	< 10	0.23	6	89	3.76	0.71	1.52	0.06	0.015	< 10	3	< 10
23167	< 0.2	< 0.5	16	628	8	14	3	87	2.94	< 10	183	< 1	< 10	0.39	8	94	4.46	0.72	1.96	0.09	0.027	< 10	5	< 10
23168	< 0.2	< 0.5	221	179	< 2	269	< 2	34	2.63	< 10	6	< 1	< 10	0.50	36	80	2.99	0.01	4.06	0.06	0.010	< 10	1	< 10
23169	< 0.2	< 0.5	101	209	< 2	299	< 2	39	2.97	< 10	6	< 1	< 10	0.84	39	134	3.47	0.01	4.88	0.07	0.007	< 10	2	< 10
23170	< 0.2	< 0.5	3	12	< 2	< 1	< 2	1	0.04	< 10	7	< 1	< 10	0.03	< 1	3	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10
23171	< 0.2	< 0.5	136	286	< 2	617	6	48	4.08	< 10	5	< 1	< 10	0.28	50	206	6.43	< 0.01	6.48	0.03	0.010	< 10	2	< 10
23172	< 0.2	< 0.5	103	115	< 2	634	3	24	2.07	< 10	5	< 1	< 10	0.09	57	197	5.37	< 0.01	4.21	0.01	0.011	< 10	1	< 10
23173	< 0.2	< 0.5	101	127	< 2	620	< 2	25	2.39	< 10	5	< 1	< 10	0.11	68	222	5.79	< 0.01	4.68	0.01	0.008	< 10	< 1	< 10
23174	< 0.2	< 0.5	116	139	< 2	648	< 2	28	2.81	< 10	5	< 1	< 10	0.11	87	236	4.30	< 0.01	5.35	0.01	0.009	< 10	< 1	< 10
23175	< 0.2	0.8	211	137	< 2	647	4	32	3.11	99	5	< 1	< 10	0.11	60	223	4.26	< 0.01	5.40	0.01	0.007	< 10	< 1	< 10
23176	< 0.2	< 0.5	24	223	< 2	316	3	37	2.95	< 10	5	< 1	< 10	0.50	38	137	3.30	< 0.01	4.73	0.06	0.006	< 10	1	< 10
23177	< 0.2	< 0.5	12	152	< 2	244	< 2	27	4.52	< 10	9	< 1	< 10	2.08	29	133	2.58	0.02	3.70	0.13	0.002	< 10	1	< 10
23178	< 0.2	< 0.5	18	244	< 2	300	< 2	35	3.05	< 10	8	< 1	< 10	0.56	37	74	3.34	0.01	4.68	0.05	0.007	< 10	< 1	< 10
23179	< 0.2	< 0.5	398	209	< 2	289	< 2	23	2.66	< 10	9	< 1	< 10	1.55	22	89	2.22	0.03	2.84	0.13	0.003	< 10	2	< 10
23180	0.6	< 0.5	1560	305	< 2	1480	15	28	5.79	< 10	22	< 1	< 10	2.32	54	159	3.91	0.02	3.74	0.40	0.003	< 10	3	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23091	27	0.03	36	< 10	2	2	0.409
23092	8	0.03	11	< 10	3	2	0.139
23093	11	0.02	5	< 10	4	3	0.092
23094	5	0.06	149	< 10	3	2	0.159
23095	5	0.08	113	< 10	2	2	0.196
23096	8	0.02	63	< 10	4	2	0.510
23097	8	0.03	9	< 10	2	2	0.013
23098	8	0.05	21	< 10	2	2	0.030
23099	11	0.04	14	< 10	3	2	0.014
23100	71	0.02	34	< 10	< 1	1	0.488
23101	17	0.07	13	< 10	4	2	0.399
23102	9	0.08	16	< 10	2	3	0.075
23103	13	0.05	51	< 10	4	2	0.227
23104	11	0.04	83	< 10	5	2	0.452
23105	15	0.03	89	< 10	5	2	0.597
23106	18	0.07	111	< 10	5	2	0.514
23107	12	0.08	53	< 10	5	4	0.581
23108	10	0.16	104	< 10	10	3	1.022
23109	34	0.08	81	< 10	4	2	1.119
23110							
23111	16	0.06	95	< 10	2	6	7.343
23112	43	0.04	52	< 10	2	2	2.000
23113	61	0.05	52	< 10	2	< 1	0.171
23114	44	0.05	84	< 10	3	2	1.499
23115	26	0.05	105	< 10	3	1	0.169
23116	14	0.03	130	< 10	5	4	2.006
23117	11	0.03	88	< 10	7	6	6.288
23118	5	0.05	93	< 10	8	7	6.577
23119	8	0.07	85	< 10	11	5	5.691
23120	71	0.02	34	< 10	< 1	1	0.522
23121	7	0.10	67	< 10	10	5	5.467
23122	8	0.08	34	< 10	15	5	4.965
23123	5	0.05	31	< 10	9	6	6.879
23124	10	0.09	32	< 10	12	3	1.151
23125	6	0.11	44	< 10	15	6	2.349
23126	4	0.14	75	< 10	12	6	6.031
23127	5	0.18	135	< 10	15	5	0.451
23128	9	0.10	146	< 10	11	3	0.364
23129	6	0.15	161	< 10	14	4	0.161
23130	2	< 0.01	< 1	< 10	1	4	0.018
23131	3	0.04	76	28	3	11	7.096
23132	6	0.12	12	< 10	11	12	0.129
23133	11	0.14	17	< 10	13	10	0.289
23134	10	0.15	21	< 10	11	11	0.020
23135	6	0.14	21	< 10	20	12	0.028
23136	1	0.02	66	10	2	11	4.523
23137	2	0.01	80	< 10	< 1	10	2.348
23138	2	0.02	81	< 10	2	11	4.161
23139	2	0.02	34	< 10	15	6	0.944
23140	70	0.02	34	< 10	< 1	1	0.516
23141	4	0.04	77	15	7	7	8.253
23142	6	0.10	75	< 10	16	6	3.194

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23143	5	0.08	37	< 10	21	6	0.331
23144	< 1	< 0.01	2	< 10	< 1	< 1	0.046
23145	2	0.03	34	< 10	20	10	0.030
23146	12	0.14	88	< 10	11	5	1.459
23147	14	0.18	88	< 10	16	5	2.111
23148	3	0.03	11	< 10	13	7	0.030
23149	5	0.08	8	< 10	21	12	0.053
23150	2	< 0.01	< 1	< 10	1	4	0.021
23151	12	0.11	11	< 10	23	15	0.096
23152	10	0.11	6	< 10	22	14	0.029
23153	2	0.02	4	11	11	3	0.380
23154	2	0.08	37	< 10	11	12	7.294
23155	3	0.08	78	< 10	4	9	8.997
23156	7	0.09	73	13	2	5	4.774
23157	11	0.13	64	< 10	4	5	0.302
23158	5	0.11	9	< 10	7	14	0.390
23159	7	0.16	62	< 10	11	10	0.211
23160	69	0.02	34	< 10	< 1	1	0.504
23161	3	0.08	56	14	10	8	7.567
23162	9	0.07	38	< 10	13	7	0.704
23163	12	0.11	44	< 10	11	7	0.496
23164	8	0.07	27	< 10	9	11	3.118
23165	16	0.06	43	< 10	15	8	0.041
23166	10	0.08	10	< 10	18	16	0.034
23167	13	0.12	27	< 10	15	13	0.023
23168	1	0.02	14	< 10	< 1	1	0.029
23169	1	0.02	17	< 10	< 1	1	0.016
23170	1	< 0.01	< 1	< 10	< 1	3	0.017
23171	< 1	0.02	36	< 10	< 1	1	0.193
23172	< 1	0.02	46	< 10	< 1	2	0.441
23173	< 1	0.02	96	< 10	< 1	2	0.422
23174	< 1	0.03	31	< 10	< 1	1	0.333
23175	1	0.02	26	< 10	< 1	1	0.331
23176	1	0.02	13	< 10	< 1	< 1	0.021
23177	124	0.01	12	< 10	< 1	< 1	0.017
23178	3	0.01	13	< 10	< 1	< 1	0.012
23179	51	0.03	28	< 10	8	1	0.077
23180	69	0.02	33	< 10	< 1	1	0.506

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
GXR-1 Meas	26.2	2.9	1180	748	14	33	988	540	0.34	364	404	<1	1470	0.74	9	6	25.0	0.03	0.15	0.11	0.039	78	1	27	
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0	
GXR-1 Meas	23.3	2.0	1070	728	13	30	551	581	0.53	312	591	<1	1320	0.77	8	6	22.9	0.03	0.17	0.16	0.036	65	1	25	
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0	
GXR-4 Meas	3.3	< 0.5	6290	139	323	40	41	69	2.61	104	31	1	27	94	14	55	3.58	1.50	1.87	0.13	0.119	< 10	7	< 10	
GXR-4 Cert	4.20	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.65	0.964	0.120	4.80	7.70	5.60	
GXR-4 Meas	3.2	< 0.5	6400	138	317	40	44	67	2.21	101	36	1	15	93	13	55	3.44	1.48	1.84	0.14	0.117	< 10	7	< 10	
GXR-4 Cert	4.20	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.66	0.964	0.120	4.80	7.70	5.60	
GXR-2 Meas	17.5	5.2	79	1000	<2	17	725	543	3.27	14	1150	<1	<10	0.78	9	25	2.11	0.58	0.57	0.35	0.052	30	5	< 10	
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	3.65	25.0	2240	1.70	0.890	0.930	8.80	36.0	1.86	1.37	3.850	0.556	0.105	49.0	6.88	1.70	
GXR-2 Meas	17.4	4.3	81	1020	<2	17	724	530	3.83	<10	1600	1	<10	0.89	8	24	2.10	0.59	0.61	0.47	0.051	27	5	< 10	
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	3.65	25.0	2240	1.70	0.890	0.930	8.80	36.0	1.86	1.37	3.850	0.556	0.105	49.0	6.88	1.70	
GXR-6 Meas	0.7	< 0.5	76	1050	<2	26	992	124	7.02	232	904	14	<10	0.16	14	82	6.61	1.03	0.47	0.21	0.032	< 10	23	< 10	
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	3.605	0.104	0.0360	3.80	27.8	1.70	
GXR-6 Meas	0.3	< 0.5	75	1070	<2	25	95	126	7.13	229	924	<1	<10	0.17	14	84	6.58	1.04	0.48	0.23	0.032	< 10	23	< 10	
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	3.605	0.104	0.0360	3.80	27.8	1.70	
OREAS 13P Meas			2970																						
OREAS 13P Cert			2900																						
OREAS 13P Meas			3090																						
OREAS 13P Cert			2900																						
23064 Orig	2.5	< 0.5	1300	219	3	52	< 2	41	4.12	< 10	76	< 1	< 10	0.49	11	114	4.74	0.75	4.91	0.06	0.007	< 10	12	< 10	
23064 Dup	2.6	< 0.5	1310	218	3	51	7	42	4.06	< 10	76	< 1	< 10	0.49	12	114	4.76	0.75	4.94	0.06	0.007	< 10	12	< 10	
23108 Orig	2.0	4.4	1060	548	3	223	37	341	3.67	< 10	116	< 1	< 10	0.67	31	80	8.02	0.83	3.88	0.12	0.040	< 10	11	< 10	
23108 Dup	1.9	4.7	1040	556	3	223	36	346	3.57	< 10	123	< 1	< 10	0.68	31	81	8.11	0.83	3.87	0.12	0.041	< 10	11	< 10	
23121 Orig	7.2	0.7	7600	310	5	2100	42	228	2.62	< 10	20	< 1	< 10	0.64	85	72	15.1	0.42	2.62	0.21	0.035	< 10	6	< 10	
23121 Dup	7.1	0.7	7410	302	5	2060	41	224	2.65	< 10	18	< 1	< 10	0.62	81	71	15.7	0.41	2.16	0.10	0.034	< 10	6	< 10	
23135 Orig	< 0.2	< 0.5	22	521	7	20	64	180	2.19	< 10	78	< 1	< 10	0.42	9	95	3.80	0.46	1.77	0.06	0.030	< 10	6	< 10	
23135 Dup	< 0.2	< 0.5	24	533	7	21	64	159	2.32	< 10	82	< 1	< 10	0.43	10	98	3.91	0.47	1.83	0.06	0.031	< 10	5	< 10	
23153 Orig	1.1	1.2	2160	107	19	47	38	1050	0.35	< 10	11	< 1	< 10	0.15	9	258	1.21	0.04	0.22	0.02	0.017	< 10	< 1	< 10	
23153 Dup	1.1	1.2	2240	120	19	48	35	1080	0.35	< 10	12	< 1	< 10	0.16	10	261	1.21	0.04	0.23	0.02	0.018	< 10	< 1	< 10	
23167 Orig	< 0.2	< 0.5	19	838	9	14	4	88	2.58	< 10	190	< 1	< 10	0.40	8	95	4.46	0.73	1.98	0.10	0.027	< 10	5	< 10	
23167 Dup	< 0.2	< 0.5	16	818	7	14	3	85	2.51	< 10	186	< 1	< 10	0.39	8	93	4.49	0.71	1.94	0.09	0.027	< 10	4	< 10	
23160 Orig	0.7	< 0.5	1560	302	< 2	1470	19	29	5.76	< 10	22	< 1	< 10	2.79	53	157	3.83	0.92	3.70	0.40	0.002	< 10	3	< 10	
23160 Dup	0.6	< 0.5	1580	308	< 2	1500	10	29	5.76	< 10	22	< 1	< 10	2.85	54	162	3.86	0.92	3.76	0.40	0.003	< 10	3	< 10	
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10	
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10	
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10	
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10	
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10	
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10	
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10	

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	179		76	137	23	14	0.206
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-1 Meas	171		71	124	22	17	0.185
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	73		83	14	12	10	1.847
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-4 Meas	71		82	13	12	9	1.818
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	87		47	< 10	11	10	0.036
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-2 Meas	106		46	< 10	11	12	0.034
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	32		178	< 10	7	11	0.016
GXR-6 Cert	36.0		186	1.90	14.0	110	0.0160
GXR-6 Meas	34		178	< 10	6	9	0.015
GXR-6 Cert	36.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
OREAS 13P Meas							
OREAS 13P Cert							
23064 Orig	5	0.09	150	< 10	3	2	0.155
23064 Dup	5	0.09	148	< 10	3	2	0.164
23108 Orig	10	0.18	103	< 10	10	3	1.023
23108 Dup	10	0.18	104	< 10	10	3	1.022
23121 Orig	7	0.10	86	< 10	10	5	5.558
23121 Dup	7	0.10	86	< 10	10	5	5.377
23135 Orig	6	0.14	20	< 10	20	11	0.028
23135 Dup	6	0.14	21	< 10	20	12	0.028
23153 Orig	2	0.02	4	< 10	11	3	0.376
23153 Dup	2	0.02	4	< 10	11	3	0.386
23167 Orig	13	0.13	28	< 10	16	14	0.023
23167 Dup	13	0.12	27	< 10	15	13	0.024
23180 Orig	89	0.02	33	< 10	< 1	1	0.496
23180 Dup	89	0.02	34	< 10	< 1	1	0.512
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001



Date Submitted: 28-Feb-08
Invoice No.: A08-0922
Invoice Date: 14-Mar-08
Your Reference: DOSSIER #21356

Expert Lab
127 Boul Industriel
Rouyn-Noranda Quebec J9X 6P2
Canada

ATTN: Evie Lafreniere

CERTIFICATE OF ANALYSIS

80 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-0922**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "C. Douglas Read".

C. Douglas Read, B.Sc.
Laboratory Manager

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A08-0922

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
23161	< 0.2	< 0.5	44	202	5	152	3	23	5.07	< 10	10	< 1	< 10	3.47	20	134	1.95	0.02	2.40	0.21	0.003	< 10	2	< 10	
23162	0.2	< 0.5	137	132	< 2	237	2	29	3.32	< 10	22	< 1	< 10	1.90	50	131	1.88	0.07	2.43	0.16	0.012	< 10	2	< 10	
23163	< 0.2	< 0.5	22	110	< 2	192	< 2	24	5.55	< 10	111	< 1	< 10	3.37	25	810	2.09	0.35	2.72	0.29	0.005	< 10	2	< 10	
23164	< 0.2	< 0.5	72	126	< 2	190	< 2	23	4.20	< 10	9	< 1	< 10	2.37	24	100	1.82	0.01	2.75	0.15	0.005	< 10	1	< 10	
23165	< 0.2	< 0.5	58	84	< 2	133	3	17	8.57	< 10	149	< 1	< 10	5.29	16	635	1.92	0.44	2.53	0.78	0.005	< 10	3	< 10	
23166	0.5	< 0.5	223	61	2	78	8	12	7.44	< 10	15	< 1	< 10	5.30	7	195	0.68	0.03	0.65	0.92	0.005	< 10	2	< 10	
23167	< 0.2	< 0.5	99	73	< 2	31	5	9	6.38	< 10	12	< 1	< 10	4.64	5	124	0.59	0.01	0.59	0.75	0.002	< 10	2	< 10	
23168	0.2	< 0.5	183	77	< 2	41	< 2	7	6.22	< 10	13	< 1	< 10	4.62	5	108	0.54	< 0.01	0.47	0.79	0.004	< 10	2	< 10	
23169	0.3	< 0.5	212	87	< 2	72	< 2	9	6.79	< 10	23	< 1	< 10	4.99	10	135	0.76	0.52	0.66	0.71	0.003	< 10	2	< 10	
23190	< 0.2	< 0.5	4	11	< 2	< 1	< 2	1	0.05	< 10	9	< 1	< 10	0.05	< 1	3	0.05	0.01	0.02	0.02	0.004	< 10	< 1	< 10	
23191	< 0.2	< 0.5	67	198	< 2	83	2	16	8.19	< 10	16	< 1	< 10	4.25	12	216	1.56	0.02	1.49	0.63	0.002	< 10	2	< 10	
23192	0.4	< 0.5	272	84	< 2	65	3	7	5.30	< 10	15	< 1	< 10	4.67	7	114	0.60	< 0.01	0.53	0.63	0.003	< 10	2	< 10	
23193	< 0.2	< 0.5	89	162	< 2	158	3	26	4.20	< 10	17	< 1	< 10	2.46	25	134	2.10	0.08	2.88	0.20	0.005	< 10	2	< 10	
23194	0.5	< 0.5	209	175	< 2	342	3	31	2.83	< 10	37	< 1	< 10	1.14	45	193	2.75	0.21	3.43	0.11	0.004	< 10	2	< 10	
23195	0.2	< 0.5	235	123	< 2	60	4	14	4.74	< 10	12	< 1	< 10	3.45	9	122	1.11	0.02	1.35	0.40	0.005	< 10	4	< 10	
23196	0.6	< 0.5	228	97	< 2	145	8	22	6.17	< 10	52	< 1	< 10	3.87	17	488	1.57	0.26	2.48	0.38	0.004	< 10	2	< 10	
23197	2.5	0.6	999	71	< 2	617	12	18	3.07	< 10	22	< 1	< 10	2.07	34	282	1.23	0.11	1.25	0.32	0.026	< 10	1	< 10	
23198	1.3	1.7	511	73	< 2	414	12	18	5.16	< 10	9	< 1	< 10	3.74	23	110	0.94	0.02	0.88	0.62	0.018	< 10	1	< 10	
23199	4.2	2.0	1520	107	< 2	676	12	28	5.75	< 10	14	< 1	< 10	4.00	39	221	1.92	0.06	1.59	0.37	0.004	< 10	2	< 10	
23200	0.6	< 0.5	1510	300	< 2	1390	7	28	5.40	< 10	20	< 1	< 10	2.73	55	155	3.26	0.02	3.50	0.37	0.002	< 10	3	< 10	
23201	2.1	< 0.5	928	127	< 2	978	6	19	2.88	< 10	12	< 1	< 10	1.88	58	304	2.06	0.04	1.79	0.24	0.005	< 10	3	< 10	
23202	6.7	3.6	2280	64	< 2	968	15	22	5.52	< 10	9	< 1	< 10	4.05	40	107	1.47	0.01	1.72	0.62	0.005	< 10	2	< 10	
23203	12.2	6.5	4080	87	< 2	2500	17	46	5.09	< 10	10	< 1	< 10	3.53	101	92	3.14	0.01	1.01	0.51	0.004	< 10	1	< 10	
23204	3.8	2.0	1280	74	< 2	1160	14	21	4.75	< 10	10	< 1	< 10	3.44	51	73	1.89	0.01	0.83	0.56	0.009	< 10	1	< 10	
23205	11.3	7.4	3760	80	< 2	1930	17	51	5.30	< 10	11	< 1	< 10	3.81	79	73	2.78	0.01	0.80	0.60	0.008	< 10	2	< 10	
23206	11.9	8.0	3730	82	< 2	1520	19	47	5.39	< 10	9	< 1	< 10	3.89	74	67	2.64	0.01	0.87	0.61	0.004	< 10	2	< 10	
23207	6.7	1.5	3490	180	< 2	1080	16	94	4.40	< 10	22	< 1	< 10	1.28	89	112	7.78	0.57	4.30	0.28	0.008	< 10	8	< 10	
23208	0.4	< 0.5	142	56	< 2	126	13	14	2.43	< 10	9	< 1	< 10	1.52	18	70	0.78	0.03	0.47	0.46	0.002	< 10	1	< 10	
23209	2.3	2.4	1370	82	< 2	860	26	38	5.41	< 10	11	< 1	< 10	3.57	99	60	4.22	0.04	0.93	0.48	0.005	< 10	2	< 10	
23210	1.5	1.2	992	75	< 2	650	12	50	2.99	< 10	24	< 1	< 10	1.61	79	91	3.46	0.14	1.41	0.32	0.012	< 10	3	< 10	
23211	4.6	4.1	1640	121	< 2	949	18	40	4.60	< 10	8	< 1	< 10	3.15	68	55	2.46	0.02	1.18	0.36	0.003	< 10	2	< 10	
23212	2.3	1.2	376	60	< 2	65	6	22	1.88	< 10	17	< 1	< 10	0.99	11	71	0.70	0.05	0.59	0.35	0.001	< 10	2	< 10	
23213	5.6	1.1	2530	104	< 2	563	9	52	2.60	< 10	27	< 1	< 10	1.10	30	94	3.38	0.13	1.55	0.35	0.006	< 10	3	< 10	
23214	1.9	0.7	1040	85	< 2	741	5	51	2.48	< 10	55	< 1	< 10	0.80	68	171	4.79	0.45	1.78	0.29	0.004	< 10	4	< 10	
23215	0.9	< 0.5	383	89	< 2	178	7	27	2.01	< 10	103	< 1	< 10	0.78	31	125	2.84	0.29	1.15	0.32	0.004	< 10	3	< 10	
23216	0.4	< 0.5	153	86	< 2	230	16	19	3.01	< 10	38	< 1	< 10	1.51	18	102	2.06	0.18	1.14	0.51	0.004	< 10	3	< 10	
23217	12.9	6.2	7300	847	< 2	1020	6	149	4.37	< 10	36	< 1	< 10	0.33	85	98	11.5	0.98	6.30	0.07	0.006	< 10	13	< 10	
23218	9.0	2.8	5940	266	< 2	632	< 2	89	3.19	< 10	11	< 1	< 10	0.26	47	38	5.89	0.04	2.62	1.00	0.009	< 10	6	< 10	
23219	4.0	< 0.5	2790	180	< 2	4230	< 2	34	2.85	< 10	9	< 1	< 10	0.91	417	29	19.6	0.26	2.26	0.12	0.007	< 10	6	< 10	
23220	0.8	< 0.5	1490	304	< 2	1490	7	28	5.72	< 10	23	< 1	< 10	2.83	55	180	3.84	0.02	3.72	0.40	0.003	< 10	3	< 10	
23221	8.6	2.7	4880	259	< 2	1360	6	72	3.47	< 10	12	< 1	< 10	0.51	58	70	10.4	0.05	2.57	0.16	0.006	< 10	5	< 10	
23222	4.7	1.4	2560	88	< 2	5270	4	15	0.80	< 10	20	< 1	< 10	0.20	618	71	18.7	0.09	0.88	0.04	0.006	< 10	2	< 10	
23223	2.0	0.5	1260	150	< 2	3560	7	31	2.65	< 10	11	< 1	< 10	0.64	206	67	17.8	0.10	1.85	0.12	0.004	< 10	2	< 10	
23224	2.5	1.2	1390	311	< 2	1840	8	70	4.19	< 10	21	< 1	< 10	0.81	162	126	12.4	0.40	4.67	0.06	0.003	< 10	7	< 10	
23225	2.8	1.9	1390	197	< 2	1340	22	54	4.43	< 10	45	< 1	< 10	1.64	95	174	8.82	0.38	3.87	0.14	0.009	< 10	9	< 10	
23226	4.0	1.7	968	150	8	224	20	16	2.77	< 10	11	< 1	< 10	2.23	19	135	1.92	0.04	0.81	0.24	< 0.001	< 10	6	< 10	
23227	16.8	7.6	2940	195	< 2	130	66	35	5.04	< 10	19	< 1	< 10	3.48	18	67	2.48	0.11	1.65	0.34	0.002	< 10	6	< 10	
23228	42.1	20.8	6490	328	3	138	148	65	3.84	< 10	10	< 1	< 10	23	279	30	71	2.83	0.01	1.59	0.18	0.003	< 10	5	< 10
23229	13.8	5.1	2130	228	< 2	57	59	23	4.38	< 10	12	< 1	< 10	3.61	15	43	1.63	0.01	1.05	0.24	0.002	< 10	5	< 10	
23230	< 0.2	< 0.5	4	12	< 2	< 1	< 2	2	0.03	< 10	10	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.02	0.004	< 10	< 1	< 10	
23231	2.2	0.8	494	81	2	483	23	13	2.20	< 10	22	< 1	< 10	1.40	81	62	2.71	0.06	0.58	0.34	0.006	< 10	3	< 10	
23232	1.8	0.7	354	108	2	85	7	20	0.64	< 10	26	< 1	< 10	0.55	13	64	1.08	0.07	0.67	0.16	0.008	< 10	3	< 10	

Activation Laboratories Ltd. Report: A08-0922

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23233	1.1	0.5	275	80	4	81	6	12	1.92	<10	17	<1	<10	1.33	18	63	1.10	0.03	0.43	0.38	0.012	<10	3	<10
23234	0.3	0.5	93	50	2	83	5	9	1.93	<10	17	<1	<10	1.18	8	63	0.89	0.05	0.42	0.40	0.010	<10	2	<10
23235	0.5	0.5	92	160	4	58	10	23	2.24	<10	37	<1	<10	1.07	11	119	1.83	0.22	1.23	0.39	0.010	<10	4	<10
23236	0.9	0.8	310	84	<2	188	12	18	3.57	<10	33	<1	<10	2.04	17	73	1.69	0.15	0.85	0.56	0.010	<10	3	<10
23237	5.0	0.9	1940	109	<2	1470	22	20	4.72	<10	29	<1	<10	2.53	102	66	7.30	0.12	1.18	0.62	0.009	<10	3	<10
23238	0.8	0.7	354	105	<2	113	27	29	7.42	<10	86	<1	<10	4.55	26	68	2.54	0.45	2.00	0.50	0.009	<10	5	<10
23239	2.1	1.0	1050	292	<2	450	2	53	4.27	<10	27	<1	<10	0.38	51	83	5.70	0.13	4.65	0.06	0.005	<10	9	<10
23240	1.0	<0.5	1960	299	<2	1440	9	27	5.97	<10	23	<1	<10	2.79	52	168	3.77	0.02	3.69	0.39	0.002	<10	3	<10
23241	<0.2	<0.5	37	156	3	33	<2	27	3.16	<10	20	<1	<10	0.26	9	67	2.37	0.05	2.38	0.07	0.004	<10	4	<10
23242	3.7	0.8	2290	105	5	276	5	7	0.48	<10	8	<1	<10	0.37	51	76	7.16	0.02	0.81	0.03	0.016	<10	<1	<10
23243	0.7	<0.5	482	140	5	31	7	30	3.23	<10	75	<1	<10	0.38	12	84	3.51	0.59	2.72	0.11	<0.001	<10	3	<10
23244	28.9	12.5	5470	108	5	67	6	56	2.47	<10	12	<1	<10	0.11	17	102	2.52	0.08	2.03	0.03	0.007	<10	3	<10
23245	<0.2	<0.5	75	147	5	17	5	23	2.84	<10	38	<1	<10	0.34	5	83	1.63	0.19	1.88	0.07	0.001	<10	2	<10
23246	0.3	<0.5	38	149	11	9	5	34	3.02	<10	96	<1	<10	0.06	4	152	1.82	0.48	2.42	0.07	<0.001	<10	4	<10
23247	16.7	0.8	8450	167	7	7	4	56	3.18	<10	61	<1	26	0.16	25	95	3.66	0.62	3.66	0.06	0.008	<10	5	<10
23248	<0.2	<0.5	40	134	11	10	3	29	2.48	<10	81	<1	<10	0.06	3	127	1.36	0.32	1.80	0.06	0.002	<10	2	<10
23249	<0.2	<0.5	30	135	5	5	4	39	2.70	<10	71	<1	<10	0.20	5	65	1.54	0.43	2.23	0.08	0.001	<10	3	<10
23250	<0.2	<0.5	4	10	<2	<1	<2	1	0.03	<10	9	<1	<10	0.04	<1	2	0.05	0.01	0.02	0.01	0.004	<10	<1	<10
23251	14.2	10.4	1120	141	8	15	15	198	2.94	<10	80	<1	<10	0.48	7	104	2.56	0.51	2.39	0.15	0.005	<10	4	<10
23252	<0.2	0.5	67	200	5	6	11	109	2.90	<10	125	<1	<10	0.30	4	66	2.43	0.52	2.35	0.14	0.004	<10	5	<10
23253	15.3	3.9	1640	240	7	46	58	186	2.94	<10	116	<1	62	0.17	7	80	3.17	0.99	2.17	0.11	0.002	<10	4	<10
23254	51.3	11.1	4580	327	5	118	219	354	3.78	<10	89	<1	92	0.75	9	70	3.99	0.57	2.37	0.23	0.002	<10	5	<10
23255	8.7	1.3	2160	355	3	85	25	51	3.57	<10	9	<1	<10	2.93	24	113	3.19	0.04	1.35	0.19	0.030	<10	7	<10
23256	3.2	1.6	1070	211	3	48	12	90	4.59	<10	157	<1	<10	2.10	74	84	4.52	1.19	2.25	0.48	0.096	<10	11	<10
23257	0.8	1.1	483	216	4	40	13	81	5.30	<10	154	<1	<10	2.37	41	78	5.04	1.08	2.36	0.48	0.108	<10	10	<10
23258	<0.2	<0.5	20	111	3	21	16	37	4.86	<10	117	<1	<10	2.75	8	71	2.61	0.71	1.36	0.64	0.097	<10	6	<10
23259	<0.2	0.8	67	1900	<2	502	<2	17	1.97	11	20	<1	<10	11.8	42	1130	4.34	<0.01	4.21	0.02	0.007	<10	10	<10
23260	0.5	<0.5	1510	297	<2	1420	6	28	5.65	<10	23	<1	<10	2.75	51	169	3.62	0.02	3.56	0.38	0.002	<10	3	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23161	68	0.03	25	< 10	< 1	< 1	0.048
23162	33	0.05	22	< 10	< 1	< 1	0.089
23163	70	0.08	43	< 10	< 1	< 1	0.028
23164	95	0.02	13	< 10	< 1	< 1	0.025
23165	130	0.06	67	< 10	< 1	< 1	0.047
23166	109	0.02	16	< 10	< 1	< 1	0.079
23167	65	< 0.01	8	< 10	< 1	< 1	0.043
23168	88	0.01	9	< 10	< 1	< 1	0.059
23169	97	0.01	11	< 10	< 1	< 1	0.100
23160	2	< 0.01	< 1	< 10	< 1	3	0.016
23161	82	0.01	17	< 10	< 1	< 1	0.038
23162	101	0.01	10	< 10	< 1	< 1	0.081
23163	39	0.03	18	< 10	< 1	< 1	0.052
23164	12	0.04	25	< 10	< 1	1	0.218
23165	55	0.01	14	< 10	3	< 1	0.056
23166	76	0.04	36	< 10	< 1	< 1	0.056
23167	46	0.02	14	< 10	< 1	< 1	0.305
23168	62	< 0.01	8	< 10	< 1	< 1	0.202
23169	65	0.02	13	< 10	< 1	< 1	0.556
23200	55	0.01	31	< 10	< 1	1	0.491
23201	52	0.01	16	< 10	1	2	0.576
23202	82	< 0.01	9	< 10	< 1	< 1	0.728
23203	71	< 0.01	8	< 10	< 1	1	1.634
23204	69	< 0.01	8	< 10	< 1	1	0.856
23205	76	< 0.01	10	< 10	< 1	1	1.534
23206	73	< 0.01	12	< 10	< 1	< 1	1.379
23207	29	0.10	144	< 10	1	3	2.988
23208	38	0.02	19	< 10	< 1	< 1	0.236
23209	67	0.01	26	< 10	< 1	1	2.057
23210	36	0.03	62	< 10	1	1	1.458
23211	56	< 0.01	14	< 10	< 1	1	0.984
23212	31	0.02	15	< 10	< 1	< 1	0.111
23213	31	0.04	76	< 10	< 1	1	1.136
23214	21	0.08	194	< 10	< 1	2	1.375
23215	22	0.07	158	< 10	< 1	< 1	0.356
23216	42	0.05	96	< 10	< 1	< 1	0.400
23217	23	0.03	112	< 10	2	4	2.319
23218	18	0.02	97	< 10	1	2	1.594
23219	21	0.05	169	< 10	< 1	6	7.776
23220	70	0.02	33	< 10	< 1	1	0.520
23221	23	0.02	193	< 10	1	3	2.981
23222	3	0.04	202	< 10	< 1	6	4.562
23223	15	0.05	243	< 10	< 1	5	6.252
23224	13	0.06	113	< 10	< 1	3	3.466
23225	24	0.06	114	< 10	1	3	2.280
23226	35	0.02	30	< 10	< 1	< 1	0.518
23227	70	0.03	61	< 10	< 1	< 1	0.484
23228	62	0.03	33	< 10	< 1	1	0.883
23229	80	0.02	25	< 10	< 1	< 1	0.314
23230	1	< 0.01	< 1	< 10	< 1	4	0.017
23231	22	0.05	56	< 10	< 1	1	1.241
23232	6	0.05	47	< 10	< 1	< 1	0.194

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23233	13	0.05	40	< 10	1	< 1	0.310
23234	13	0.05	45	< 10	1	< 1	0.177
23235	19	0.10	97	< 10	2	< 1	0.087
23236	27	0.05	86	< 10	1	< 1	0.436
23237	37	0.03	86	< 10	< 1	2	3.473
23238	58	0.05	124	< 10	< 1	< 1	0.396
23239	25	< 0.01	79	< 10	3	2	0.790
23240	70	0.02	33	< 10	< 1	1	0.494
23241	13	0.03	53	< 10	< 1	< 1	0.051
23242	3	< 0.01	6	< 10	2	4	4.027
23243	20	0.05	14	< 10	2	2	0.801
23244	15	< 0.01	25	< 10	2	3	0.956
23245	21	0.03	16	< 10	< 1	1	0.072
23246	9	0.03	4	< 10	< 1	2	0.008
23247	10	0.05	5	< 10	2	3	0.906
23248	12	0.02	1	< 10	1	3	0.010
23249	14	0.03	4	< 10	< 1	2	0.006
23250	1	< 0.01	< 1	< 10	< 1	3	0.017
23251	19	0.08	3	< 10	2	3	0.333
23252	17	0.05	6	< 10	2	3	0.015
23253	13	0.08	7	< 10	< 1	4	0.224
23254	33	0.08	10	< 10	1	4	0.617
23255	83	0.08	64	< 10	3	1	0.517
23256	38	0.14	111	< 10	6	2	0.181
23257	35	0.14	122	< 10	7	2	0.159
23258	30	0.11	95	< 10	7	2	0.022
23259	189	< 0.01	87	< 10	3	1	0.209
23260	67	0.02	32	< 10	< 1	1	0.487

Activation Laboratories Ltd. Report: A08-0922

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.4	3.1	1030	798	15	34	612	655	0.60	347	342	<1	1420	0.88	9	8	22.7	0.03	0.18	0.11	0.036	77	1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.2	0.7	6500	140	312	36	48	59	2.68	99	34	1	20	0.93	14	57	3.05	1.36	1.78	0.13	0.113	<10	7	<10
GXR-4 Cert	4.00	0.860	6500	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	15.8	4.9	74	972	<2	15	688	502	3.24	11	1400	<1	<10	0.83	8	22	1.72	0.50	0.54	0.45	0.046	28	4	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.9	76	1110	<2	25	100	123	7.12	232	865	<1	<10	0.17	15	84	5.39	0.96	0.45	0.24	0.032	<10	23	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2850			2260											5.92							
OREAS 13P Cert			2500			2260											7.58							
23152 Ong	0.4	< 0.5	271	89	< 2	69	3	7	6.15	< 10	14	< 1	< 10	4.61	7	113	0.60	< 0.01	0.52	0.82	0.003	< 10	2	< 10
23162 Dup	0.4	< 0.5	273	79	< 2	62	4	7	6.41	< 10	15	< 1	< 10	4.73	5	115	0.61	< 0.01	0.53	0.84	0.004	< 10	2	< 10
23206 Ong	12.0	8.2	3640	85	< 2	1540	19	48	5.43	< 10	9	< 1	< 10	3.94	74	66	2.71	0.01	0.85	0.51	0.006	< 10	2	< 10
23205 Dup	11.7	7.8	3610	79	< 2	1510	19	46	5.34	< 10	8	< 1	< 10	3.85	73	66	2.67	0.01	0.88	0.51	0.004	< 10	2	< 10
23215 Ong	4.0	< 0.5	2290	179	< 2	4190	< 2	34	2.83	< 10	9	< 1	< 10	0.51	414	26	15.7	0.26	2.25	0.12	0.007	< 10	4	< 10
23215 Dup	4.0	0.8	2280	182	< 2	4260	9	34	2.87	< 10	9	< 1	< 10	0.51	421	26	15.9	0.26	2.27	0.12	0.007	< 10	5	< 10
23233 Ong	1.1	0.6	280	83	4	81	8	12	1.92	< 10	17	< 1	< 10	1.33	18	62	1.10	0.03	0.43	0.38	0.011	< 10	3	< 10
23233 Dup	1.1	0.5	270	77	3	80	3	12	1.92	< 10	17	< 1	< 10	1.33	17	63	1.10	0.03	0.43	0.38	0.012	< 10	3	< 10
23258 Ong	2.5	1.5	1070	213	3	49	14	92	5.02	< 10	159	< 1	< 10	2.14	75	65	4.58	1.20	2.27	0.47	0.097	< 10	11	< 10
23255 Dup	3.8	1.5	1070	209	4	47	10	88	4.90	< 10	155	< 1	< 10	2.07	72	63	4.46	1.18	2.23	0.45	0.095	< 10	11	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	181		76	128	23	19	0.190
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	67		80	13	11	9	1.722
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	93		42	< 10	10	11	0.032
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	32		179	< 10	6	13	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
23192 Orig	100	0.01	10	< 10	< 1	< 1	0.081
23192 Dup	103	0.01	10	< 10	< 1	< 1	0.080
23205 Orig	74	< 0.01	12	< 10	< 1	< 1	1.403
23205 Dup	72	< 0.01	11	< 10	< 1	< 1	1.398
23219 Orig	21	0.05	195	< 10	< 1	6	7.627
23219 Dup	21	0.05	203	< 10	< 1	6	7.922
23233 Orig	13	0.05	40	< 10	1	< 1	0.313
23233 Dup	13	0.05	39	< 10	1	< 1	0.306
23258 Orig	38	0.14	112	< 10	6	2	0.185
23258 Dup	37	0.13	110	< 10	6	2	0.178
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 10-Mar-08
Invoice No.: A08-1146
Invoice Date: 07-Apr-08
Your Reference: DOSSIER #21471

Expert Lab
127 Boul Industriel
Rouyn-Noranda Quebec J9X 6P2
Canada

ATTN: Evie Lafreniere

CERTIFICATE OF ANALYSIS

83 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-1146**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-1146

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
	ppm 0.2	ppm 0.5	ppm 1	ppm 2	ppm 2	ppm 1	ppm 2	ppm 1	% 0.01	ppm 10	ppm 1	ppm 1	ppm 10	% 0.01	ppm 1	ppm 2	% 0.01	% 0.01	% 0.01	% 0.01	% 0.001	ppm 10	ppm 1	ppm 10	
25501	2.4	1.0	1420	154	<2	973	6	33	3.71	<10	10	<1	<10	2.25	50	320	2.96	0.02	2.73	0.15	0.005	<10	2	<10	
25502	5.9	2.5	3320	174	<2	2160	6	44	4.61	<10	9	<1	<10	2.45	85	313	4.91	0.02	3.25	0.18	0.004	<10	2	<10	
25503	5.9	2.7	3470	186	<2	1970	6	42	3.89	<10	8	<1	<10	2.01	91	254	4.66	0.02	3.01	0.15	0.003	<10	2	<10	
25504	5.4	1.8	3270	223	<2	1640	5	37	3.38	<10	9	<1	<10	1.95	78	304	4.06	0.03	2.83	0.15	0.005	<10	2	<10	
25505	3.1	1.7	1690	153	<2	1050	4	25	3.92	<10	10	<1	<10	2.85	54	287	2.37	0.03	1.77	0.23	0.003	<10	2	<10	
25506	4.8	3.3	2380	121	<2	752	5	25	4.14	<10	10	<1	<10	3.14	42	149	1.82	0.03	1.28	0.25	0.004	<10	2	<10	
25507	7.5	3.9	3150	115	2	1220	10	28	5.74	<10	8	<1	<10	4.12	59	118	2.28	0.01	1.15	0.40	0.005	<10	2	<10	
25508	11.2	6.5	4540	91	<2	1900	11	42	4.62	<10	9	<1	<10	3.22	89	169	3.47	0.02	1.33	0.33	0.006	<10	2	<10	
25509	12.0	6.9	4190	89	<2	1830	11	46	3.92	<10	8	<1	<10	2.77	89	163	3.26	0.02	1.35	0.31	0.006	<10	2	<10	
25510	<0.2	<0.5	7	10	<2	2	<2	<1	0.03	<10	10	<1	<10	0.04	<1	2	0.05	0.01	0.02	0.02	0.004	<10	<1	<10	
25511	9.4	5.0	3090	91	2	1530	17	37	5.83	<10	7	<1	<10	4.17	78	99	3.07	0.01	1.01	0.48	0.005	<10	3	<10	
25512	5.6	4.2	2150	92	<2	1310	21	45	5.37	<10	12	<1	<10	3.57	81	95	4.03	0.03	1.41	0.36	0.004	<10	3	<10	
25513	3.3	1.3	2150	172	<2	1680	13	58	5.42	<10	29	<1	<10	2.56	148	159	8.61	0.20	2.88	0.45	0.005	<10	5	<10	
25514	1.6	<0.5	1150	158	<2	1660	12	62	3.75	<10	16	<1	<10	1.12	357	68	10	0.36	3.20	0.29	0.005	<10	8	<10	
25515	16.9	1.7	8200	292	3	764	4	134	4.05	81	9	<1	<10	0.48	76	57	8.48	0.02	1.05	0.12	0.015	<10	10	<10	
25516	13.9	0.5	9960	116	<2	6000	7	55	1.67	<10	6	<1	<10	0.37	299	46	23.4	0.16	1.44	0.06	0.011	<10	3	<10	
25517	12.1	7.4	1750	239	<2	145	216	28	4.18	<10	10	<1	<10	3.66	23	51	1.95	0.01	1.05	0.25	0.002	<10	5	<10	
25518	2.1	<0.5	1060	165	8	235	2	21	2.06	<10	12	<1	<10	0.22	29	73	8.84	0.04	1.71	0.07	0.007	<10	3	<10	
25519	0.5	<0.5	178	194	8	17	6	28	3.47	<10	81	<1	<10	0.13	7	123	2.65	0.43	3.08	0.07	0.009	<10	5	<10	
25520	0.5	<0.5	1530	194	<2	1440	4	25	5.75	<10	23	<1	<10	2.80	53	158	3.67	0.02	3.65	0.39	0.003	<10	3	<10	
25521	3.3	<0.5	1270	234	7	37	6	57	3.95	<10	95	<1	<10	22	0.08	6	107	4.08	0.55	4.32	0.06	0.006	<10	6	<10
25522	10.0	3.8	2930	314	4	455	96	132	4.22	<10	38	<1	<10	5.5	2.00	54	88	6.77	0.39	1.58	0.31	0.031	<10	5	<10
25523	17.8	11.6	5990	246	5	1440	70	250	4.04	<10	18	<1	<10	1.48	77	71	12.8	0.32	1.82	0.27	0.025	<10	3	<10	
25524	13.7	6.9	3460	219	6	496	78	206	3.97	<10	38	<1	<10	1.94	50	81	8.47	0.38	1.70	0.30	0.031	<10	4	<10	
25525	11.1	6.8	3110	212	7	200	51	223	4.15	<10	94	<1	<10	1.42	35	110	5.52	0.39	2.07	0.31	0.045	<10	5	<10	
25526	2.0	1.0	595	167	5	47	44	138	4.33	<10	138	<1	<10	1.79	18	106	4.68	0.54	1.82	0.62	0.068	<10	6	<10	
25527	7.2	1.8	>10000	189	4	3940	8	194	2.10	<10	10	<1	<10	0.20	315	108	24.5	0.31	1.55	0.08	0.018	<10	4	<10	
25528	9.8	2.4	>10000	259	<2	4520	10	238	2.01	<10	9	<1	<10	0.20	359	85	27.7	0.19	1.65	0.06	0.016	<10	5	<10	
25529	6.0	2.7	6570	430	7	1380	29	242	3.15	<10	21	<1	<10	0.94	84	109	12.2	0.49	2.59	0.06	0.031	<10	7	<10	
25530	<0.2	<0.5	8	12	<2	2	<2	<1	0.03	<10	9	<1	<10	0.04	<1	2	0.06	0.01	0.02	0.02	0.004	<10	<1	<10	
25531	<0.2	<0.5	66	236	12	29	5	47	2.75	<10	149	<1	<10	0.30	7	159	2.67	0.50	1.61	0.10	0.020	<10	4	<10	
25532	<0.2	<0.5	53	290	10	29	<2	4.2	2.42	<10	81	<1	<10	0.45	8	135	3.23	0.34	1.98	0.07	0.030	<10	3	<10	
25533	<0.2	<0.5	17	279	8	17	6	43	2.87	<10	97	<1	<10	0.73	9	102	3.09	0.56	1.91	0.16	0.034	<10	4	<10	
25534	<0.2	<0.5	10	304	6	48	7	57	2.92	<10	141	<1	<10	0.80	10	117	3.14	0.59	2.37	0.13	0.027	<10	7	<10	
25535	1.7	<0.5	1140	252	8	148	16	94	4.42	<10	122	<1	<10	1.60	40	114	5.98	0.96	2.88	0.17	0.043	<10	7	<10	
25536	5.0	1.6	2690	198	6	165	19	83	4.10	<10	81	<1	<10	1.86	28	92	5.03	0.61	1.71	0.24	0.033	<10	4	<10	
25537	1.0	<0.5	564	207	7	26	24	44	4.07	<10	122	<1	<10	2.50	8	164	3.71	0.42	1.15	0.27	0.080	<10	3	<10	
25538	16.7	3.8	8420	293	4	908	42	153	4.22	<10	23	<1	<10	1.65	78	84	10.0	0.47	1.90	0.28	0.046	<10	5	<10	
25539	8.5	2.6	3790	325	5	807	48	137	4.08	<10	27	<1	<10	1.99	81	76	10.6	0.54	2.68	0.20	0.050	<10	7	<10	
25540	0.5	<0.5	1590	297	<2	1420	4	28	6.07	<10	22	<1	<10	2.77	53	155	3.62	0.02	3.80	0.41	0.002	<10	3	<10	
25541	9.9	3.5	4150	181	7	438	82	125	3.82	<10	50	<1	<10	1.88	75	60	6.66	0.47	1.51	0.24	0.044	<10	4	<10	
25542	5.6	3.1	2610	259	4	406	81	155	4.35	<10	47	<1	<10	1.80	50	62	8.23	0.90	2.62	0.30	0.044	<10	7	<10	
25543	2.1	1.1	1950	150	3	5510	37	137	1.91	<10	22	<1	<10	0.67	85	41	35.6	0.39	1.17	0.10	0.021	<10	4	<10	
25544	<0.2	<0.5	41	281	8	59	13	115	2.45	<10	95	<1	<10	0.70	8	120	3.39	0.27	1.98	0.05	0.028	<10	4	<10	
25545	<0.2	<0.5	15	287	12	29	3	60	1.59	<10	71	<1	<10	0.49	8	157	2.76	0.31	1.75	0.05	0.030	<10	3	<10	
25546	<0.2	<0.5	95	272	8	40	6	66	2.35	<10	94	<1	<10	0.25	13	161	3.06	0.51	1.82	0.06	0.031	<10	5	<10	
25547	<0.2	<0.5	148	283	12	24	71	1.60	<10	84	1	<10	0.27	10	160	3.08	0.38	1.18	0.06	0.020	<10	4	<10		
25548	<0.2	<0.5	145	294	9	14	22	59	1.84	<10	47	1	<10	0.80	11	130	3.02	0.18	1.33	0.04	0.013	<10	5	<10	
25549	<0.2	<0.5	13	166	22	4	31	0.88	<10	13	<1	<10	0.57	4	326	1.60	0.06	0.65	0.06	0.004	<10	3	<10		
25550	<0.2	<0.5	3	8	<2	<1	<1	0.03	<10	8	<1	<10	0.03	<1	2	0.05	0.01	0.02	0.02	0.004	<10	<1	<10		
25551	<0.2	<0.5	85	391	10	35	25	156	2.48	<10	80	<1	<10	1.62	12	183	3.20	0.33	1.76	0.06	0.099	<10	8	<10	
25552	<0.2	<0.5	54	355	12	12	13	43	1.75	<10	97	<1	<10	0.41	8	128	3.03	0.27	1.27	0.07	0.016	<10	6	<10	

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Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm 0.2	ppm 0.5	ppm 1	ppm 2	ppm 2	ppm 1	ppm 2	ppm 1	% 0.01	ppm 10	ppm 1	ppm 1	ppm 10	% 0.01	ppm 1	ppm 2	% 0.01	% 0.01	% 0.01	% 0.01	% 0.001	ppm 10	ppm 1	ppm 10
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25553	< 0.2	< 0.5	72	285	16	17	27	83	1.95	< 10	170	2	< 10	0.25	8	170	2.96	0.47	1.11	0.09	0.017	< 10	5	< 10
25554	< 0.2	1.0	173	590	5	65	25	127	2.20	< 10	64	< 1	< 10	1.65	22	143	3.64	0.20	1.73	0.10	0.032	< 10	8	< 10
25555	< 0.2	< 0.5	93	421	4	76	43	42	2.95	< 10	32	< 1	< 10	2.56	21	161	3.39	0.19	1.97	0.15	0.028	< 10	8	< 10
25556	< 0.2	< 0.5	190	529	4	80	29	71	2.33	< 10	48	< 1	< 10	1.85	28	155	4.32	0.21	2.00	0.09	0.036	< 10	10	< 10
25557	29.6	4.9	> 10000	315	< 2	5520	128	1230	1.19	< 10	12	< 1	22	1.32	195	52	36.5	0.06	0.92	0.02	0.015	11	4	13
25558	30.0	29.6	> 10000	123	< 2	7340	204	1030	0.33	< 10	7	< 1	19	0.08	328	29	41.5	0.02	0.15	0.02	0.010	18	< 1	12
25559	22.8	17.8	> 10000	216	2	5320	191	1530	0.64	< 10	9	< 1	21	0.15	459	36	33.1	0.14	0.50	0.02	0.013	< 10	< 1	11
25560	0.7	< 0.5	1970	297	< 2	1400	24	30	5.75	< 10	23	< 1	< 10	2.78	53	164	3.61	0.02	3.66	0.39	0.002	< 10	3	< 10
25561	0.3	< 0.5	313	396	11	52	43	89	2.54	< 10	71	< 1	< 10	0.74	10	135	3.15	0.51	1.65	0.06	0.029	< 10	3	< 10
25562	0.9	0.8	1080	346	8	314	46	151	2.12	< 10	39	< 1	< 10	0.97	57	96	4.53	0.25	1.25	0.06	0.031	< 10	3	< 10
25563	15.7	5.1	> 10000	175	< 2	6830	29	368	0.84	< 10	13	< 1	20	0.23	312	60	35.6	0.18	0.51	0.05	0.012	11	1	11
25564	0.7	0.5	709	542	7	566	14	190	2.21	< 10	33	3	< 10	0.35	34	163	5.93	1.00	1.64	0.06	0.017	< 10	5	14
25565	< 0.2	< 0.5	115	72	13	42	12	8	0.26	< 10	10	< 1	< 10	0.18	2	180	0.43	0.15	0.03	0.06	0.008	< 10	< 1	< 10
25566	< 0.2	< 0.5	45	86	8	21	9	10	0.24	< 10	8	< 1	< 10	0.56	1	129	0.27	0.08	0.06	0.07	0.025	< 10	< 1	< 10
25567	< 0.2	< 0.5	17	66	21	18	3	4	0.20	< 10	7	< 1	< 10	0.24	< 1	294	0.36	0.08	0.03	0.04	0.007	< 10	< 1	< 10
25568	< 0.2	< 0.5	16	212	8	10	5	43	1.19	< 10	11	2	< 10	1.18	4	126	1.88	0.15	0.88	0.04	0.017	< 10	2	< 10
25569	1.6	1.4	1160	732	7	175	23	1670	4.26	< 10	50	4	< 10	0.89	27	96	9.69	2.02	3.25	0.10	0.091	< 10	11	19
25570	< 0.2	< 0.5	4	10	< 2	< 1	< 2	3	0.03	< 10	9	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.02	0.004	< 10	< 1	< 10
25571	1.4	0.8	941	892	9	40	7	732	2.85	< 10	27	1	38	0.63	32	123	9.58	1.11	2.11	0.06	0.032	< 10	8	< 10
25572	0.9	4.4	898	850	9	28	4	881	3.17	< 10	46	< 1	< 10	0.24	22	128	8.77	1.06	2.25	0.06	0.023	< 10	5	< 10
25573	< 0.2	< 0.5	15	520	9	8	2	190	1.69	< 10	89	< 1	< 10	0.45	4	121	2.67	0.45	1.57	0.06	0.014	< 10	2	< 10
25574	< 0.2	< 0.5	26	317	8	14	3	172	3.08	< 10	153	< 1	< 10	0.97	11	103	4.29	0.69	2.43	0.08	0.043	< 10	7	< 10
25575	< 0.2	< 0.5	19	557	12	10	4	102	2.61	< 10	85	< 1	< 10	0.68	5	153	2.56	0.46	1.91	0.06	0.015	< 10	3	< 10
25576	< 0.2	< 0.5	10	438	9	8	5	70	2.31	< 10	73	1	< 10	0.46	2	132	2.14	0.49	1.85	0.05	0.010	< 10	2	< 10
25577	< 0.2	< 0.5	6	510	9	7	5	74	2.33	< 10	83	< 1	< 10	0.73	3	102	2.19	0.52	1.77	0.05	0.019	< 10	2	< 10
25578	< 0.2	< 0.5	5	388	5	6	2	79	1.78	< 10	84	< 1	< 10	0.18	2	96	2.25	0.55	1.37	0.04	0.006	< 10	1	< 10
25579	0.2	< 0.5	496	417	8	13	3	179	1.57	< 10	34	< 1	< 10	0.48	7	73	12.4	0.28	1.59	0.03	0.017	< 10	1	< 10
25580	0.5	< 0.5	1550	303	< 2	1450	5	28	5.65	< 10	22	< 1	< 10	2.84	54	160	3.72	0.02	3.68	0.40	0.003	< 10	3	< 10
25581	< 0.2	< 0.5	12	257	11	11	< 2	67	1.93	< 10	50	2	< 10	0.81	3	155	2.45	0.30	1.45	0.04	0.002	< 10	< 1	< 10
25582	0.4	< 0.5	1110	184	12	9	3	27	1.27	< 10	18	1	10	1.14	3	182	2.01	0.20	0.77	0.04	0.007	< 10	1	< 10
25583	< 0.2	< 0.5	26	91	12	9	< 2	6	0.38	< 10	9	< 1	< 10	1.07	< 1	166	0.42	0.11	0.08	0.06	0.009	< 10	< 1	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25501	45	0.02	19	< 10	< 1	1	0.703
25502	46	0.01	16	< 10	< 1	1	1.599
25503	37	0.01	14	< 10	< 1	2	1.583
25504	31	0.02	18	< 10	< 1	1	1.266
25505	61	0.02	15	< 10	< 1	< 1	0.706
25506	70	0.01	14	< 10	< 1	< 1	0.567
25507	98	< 0.01	13	< 10	< 1	< 1	0.822
25508	73	0.01	16	< 10	< 1	1	1.610
25509	50	< 0.01	16	< 10	< 1	1	1.535
25510	1	< 0.01	< 1	< 10	< 1	4	0.018
25511	84	< 0.01	15	< 10	< 1	< 1	1.389
25512	57	0.01	28	< 10	< 1	1	1.577
25513	53	0.04	93	< 10	< 1	2	3.324
25514	28	0.08	102	< 10	< 1	3	4.488
25515	13	0.03	111	< 10	1	3	1.999
25516	6	0.04	77	< 10	1	7	8.700
25517	81	0.03	30	< 10	< 1	< 1	0.447
25518	6	0.01	30	< 10	1	3	4.520
25519	10	0.05	21	< 10	2	2	0.047
25520	59	0.02	33	< 10	< 1	1	0.494
25521	17	0.06	15	< 10	3	2	0.137
25522	25	0.09	67	< 10	6	3	2.095
25523	22	0.07	65	< 10	4	5	4.885
25524	23	0.08	48	< 10	4	3	2.128
25525	22	0.09	75	< 10	5	3	0.989
25526	27	0.11	95	< 10	7	3	0.790
25527	8	0.05	54	< 10	3	8	6.040
25528	7	0.04	45	< 10	4	6	6.827
25529	13	0.12	47	< 10	12	5	4.198
25530	1	< 0.01	< 1	< 10	< 1	4	0.021
25531	10	0.10	10	< 10	14	9	0.060
25532	9	0.14	15	< 10	24	9	0.064
25533	16	0.13	21	< 10	18	8	0.021
25534	14	0.14	24	< 10	13	7	0.016
25535	19	0.15	62	< 10	7	3	0.809
25536	24	0.06	40	< 10	7	2	1.013
25537	31	0.10	27	< 10	14	2	0.171
25538	21	0.10	54	< 10	8	4	3.203
25539	13	0.11	66	< 10	8	4	2.940
25540	89	0.02	32	< 10	< 1	1	0.435
25541	18	0.06	57	< 10	6	3	1.598
25542	16	0.13	66	< 10	5	3	1.474
25543	8	0.07	56	< 10	3	9	5.244
25544	5	0.06	22	< 10	17	6	0.111
25545	4	0.05	13	< 10	18	9	0.054
25546	5	0.08	16	< 10	11	9	0.070
25547	6	0.10	10	< 10	18	13	0.738
25548	5	0.10	18	< 10	21	13	0.271
25549	3	0.07	14	< 10	8	12	0.016
25550	1	< 0.01	< 1	< 10	< 1	3	0.017
25551	13	0.15	41	< 10	14	12	0.129
25552	5	0.13	12	< 10	18	20	0.095

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25553	6	0.11	9	< 10	13	16	0.123
25564	12	0.12	67	< 10	8	6	0.259
25555	33	0.13	82	< 10	5	2	0.113
25555	14	0.13	103	116	6	3	0.262
25557	3	0.05	125	13	3	10	5.913
25558	2	< 0.01	68	< 10	< 1	11	4.928
25559	4	0.03	54	13	4	11	8.373
25560	88	0.02	32	< 10	< 1	1	0.499
25561	9	0.11	9	< 10	15	11	0.272
25562	10	0.10	6	11	16	12	1.613
25563	4	0.03	124	21	1	10	5.576
25564	6	0.14	29	< 10	5	17	1.524
25565	2	< 0.01	1	< 10	< 1	< 1	0.101
25566	4	< 0.01	< 1	< 10	< 1	< 1	0.031
25567	3	< 0.01	1	< 10	< 1	< 1	0.016
25568	8	< 0.01	14	< 10	5	2	0.022
25569	11	0.21	93	< 10	8	9	1.439
25570	1	< 0.01	< 1	< 10	< 1	3	0.017
25571	8	0.11	33	< 10	8	16	2.824
25572	6	0.10	25	< 10	9	12	1.508
25573	6	0.07	5	< 10	18	16	0.024
25574	14	0.20	58	< 10	16	9	0.029
25575	11	0.08	12	< 10	22	19	0.016
25576	10	0.09	2	< 10	21	20	0.012
25577	10	0.08	5	< 10	21	17	0.010
25578	3	0.04	2	< 10	14	20	0.008
25579	3	0.02	6	< 10	9	12	1.102
25580	70	0.02	33	< 10	< 1	1	0.503
25581	4	< 0.01	2	< 10	14	16	0.021
25582	4	< 0.01	2	< 10	12	6	0.147
25583	4	< 0.01	< 1	< 10	10	2	0.021

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.7	2.7	1140	790	14	36	574	521	0.61	343	289	<1	1360	0.80	9	6	24.6	0.03	0.17	0.11	0.038	71	1	24
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	< 0.5	6670	142	328	41	43	59	2.70	101	23	1	18	0.96	14	57	3.63	1.56	1.82	0.14	0.121	< 10	7	< 10
GXR-4 Cert	4.00	0.860	6920	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.80	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	15.9	4.5	76	943	<2	15	866	488	3.10	14	1150	<1	<10	0.72	8	23	1.98	0.54	0.53	0.35	0.049	28	4	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.2	< 0.5	75	1030	< 2	27	95	124	7.02	231	953	< 1	< 10	0.17	15	84	6.76	1.05	0.47	0.23	0.033	< 10	23	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2800			2310											6.05							
OREAS 13P Cert			2500			2280											7.58							
25513 Ong	3.3	1.3	2050	171	< 2	1680	15	58	5.22	< 10	29	< 1	< 10	2.55	146	158	6.56	0.20	2.67	0.44	0.005	< 10	5	< 10
25513 Dup	3.3	1.3	2260	173	< 2	1680	12	58	5.62	< 10	30	< 1	< 10	2.57	145	160	6.66	0.20	2.65	0.46	0.005	< 10	5	< 10
25527 Ong	7.2	1.7	9800	169	4	3930	9	187	2.05	< 10	11	< 1	< 10	0.20	315	106	24.3	0.31	1.64	0.08	0.016	< 10	4	< 10
25527 Dup	7.1	2.0	> 10000	170	4	3960	8	192	2.11	< 10	8	< 1	< 10	0.20	314	106	24.7	0.31	1.68	0.08	0.016	< 10	4	< 10
25540 Ong	0.8	< 0.5	1630	299	< 2	1430	5	24	6.18	< 10	21	< 1	< 10	2.79	54	157	3.65	0.02	3.62	0.42	0.002	< 10	3	< 10
25540 Dup	0.5	< 0.5	1580	295	< 2	1410	2	27	5.85	< 10	22	< 1	< 10	2.75	53	154	3.60	0.02	3.68	0.40	0.002	< 10	3	< 10
25554 Ong	< 0.2	1.1	181	506	6	64	26	126	2.33	< 10	64	< 1	< 10	1.66	22	144	3.65	0.20	1.74	0.10	0.033	< 10	8	< 10
25554 Dup	< 0.2	0.9	165	494	5	65	25	128	2.08	< 10	64	< 1	< 10	1.64	22	142	3.63	0.20	1.72	0.09	0.032	< 10	8	< 10
25577 Ong	< 0.2	< 0.5	6	509	9	7	4	73	2.45	< 10	81	< 1	< 10	0.73	3	101	2.17	0.51	1.75	0.08	0.019	< 10	2	< 10
25577 Dup	< 0.2	< 0.5	6	511	8	6	5	74	2.21	< 10	84	< 1	< 10	0.73	3	102	2.22	0.53	1.78	0.05	0.019	< 10	2	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	9	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.02	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	188		76	126	23	17	0.189
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	74		85	12	12	10	1.891
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	85		43	< 10	10	10	0.033
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	34		181	< 10	7	10	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
25513 Orig	52	0.04	93	< 10	< 1	2	3.223
25513 Dup	53	0.04	94	< 10	< 1	3	3.424
25527 Orig	6	0.05	53	< 10	3	8	5.882
25527 Dup	6	0.05	56	< 10	3	8	6.198
25540 Orig	70	0.02	33	< 10	< 1	1	0.499
25540 Dup	69	0.02	32	< 10	< 1	1	0.492
25554 Orig	12	0.13	67	< 10	8	6	0.258
25554 Dup	11	0.12	66	< 10	7	6	0.260
25577 Orig	10	0.08	5	< 10	21	17	0.009
25577 Dup	10	0.08	5	< 10	21	17	0.010
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 10-Mar-08
Invoice No.: A08-1147
Invoice Date: 07-Apr-08
Your Reference: DOSSIER #21472

Expert Lab
127 Boul Industriel
Rouyn-Noranda Quebec J9X 6P2
Canada

ATTN: Evie Lafreniere

CERTIFICATE OF ANALYSIS

91 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-1147**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-1147

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26694	0.3	0.5	94.4	467	< 2	52	5	73	3.60	< 10	37	< 1	< 10	2.81	36	5.57	0.05	1.66	0.30	0.064	< 10	13	< 10	
26695	< 0.2	< 0.5	338	557	< 2	37	< 2	42	2.16	< 10	27	< 1	< 10	1.81	35	67	4.20	0.03	1.85	0.16	0.046	< 10	8	< 10
26696	0.2	< 0.5	456	327	< 2	30	< 2	38	1.50	< 10	11	< 1	< 10	1.52	23	40	2.50	0.02	0.83	0.12	0.046	< 10	8	< 10
26697	< 0.2	< 0.5	136	445	< 2	32	< 2	34	1.40	< 10	63	< 1	< 10	1.85	19	62	3.33	0.10	1.24	0.20	0.039	< 10	10	< 10
26698	< 0.2	< 0.5	136	435	< 2	32	< 2	33	1.62	< 10	41	< 1	< 10	2.02	21	52	3.23	0.06	1.16	0.22	0.046	< 10	10	< 10
26699	< 0.2	< 0.5	49	243	< 2	42	< 2	21	2.61	< 10	15	< 1	< 10	2.46	12	74	1.90	0.03	1.11	0.28	0.025	< 10	6	< 10
26700	0.5	< 0.5	1400	301	< 2	1400	81	29	5.70	< 10	23	< 1	< 10	2.86	51	160	3.53	0.02	3.60	0.39	0.002	< 10	3	< 10
26701	< 0.2	< 0.5	144	503	3	127	4	41	2.92	< 10	7	< 1	< 10	1.84	47	314	4.52	< 0.01	2.79	0.06	0.028	< 10	7	< 10
26702	< 0.2	< 0.5	219	496	2	46	< 2	38	2.58	< 10	15	< 1	< 10	2.29	34	68	5.02	0.03	1.62	0.15	0.047	< 10	10	< 10
26703	0.4	< 0.5	749	221	8	94	< 2	24	1.31	14	7	< 1	< 10	1.48	78	196	2.82	< 0.01	0.62	0.03	0.023	< 10	4	< 10
26704	< 0.2	< 0.5	349	492	< 2	38	< 2	39	2.07	< 10	12	< 1	< 10	2.38	24	62	4.24	0.04	1.35	0.32	0.053	< 10	13	< 10
26705	0.3	< 0.5	586	560	< 2	46	3	59	2.15	< 10	15	< 1	< 10	2.25	35	64	5.78	0.05	1.66	0.27	0.051	< 10	13	< 10
26706	< 0.2	< 0.5	344	437	< 2	18	< 2	32	2.60	< 10	64	< 1	< 10	2.45	42	30	5.49	0.07	1.11	0.37	0.112	< 10	12	< 10
26707	< 0.2	< 0.5	227	247	3	26	< 2	24	2.33	< 10	10	< 1	< 10	2.28	34	73	3.42	0.02	0.51	0.14	0.044	< 10	8	< 10
26708	< 0.2	< 0.5	459	227	< 2	62	< 2	19	3.62	< 10	15	< 1	< 10	3.37	30	32	2.86	0.03	1.10	0.42	0.045	< 10	7	< 10
26709	0.5	< 0.5	699	520	4	63	7	58	3.64	< 10	16	< 1	< 10	2.92	75	101	6.19	0.03	1.93	0.36	0.061	< 10	12	< 10
26710	< 0.2	< 0.5	4	10	< 2	< 1	< 2	2	0.03	< 10	8	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10
26711	< 0.2	< 0.5	190	468	< 2	33	< 2	25	3.38	< 10	20	< 1	< 10	2.99	21	61	3.87	0.04	1.30	0.37	0.049	< 10	11	< 10
26712	< 0.2	< 0.5	339	486	< 2	37	3	83	3.23	< 10	17	< 1	< 10	2.78	34	81	4.32	0.03	1.37	0.27	0.047	< 10	10	< 10
26713	< 0.2	3.1	367	490	< 2	36	6	585	3.15	< 10	18	< 1	< 10	2.54	30	56	4.30	0.04	1.58	0.22	0.047	< 10	10	< 10
26714	0.3	< 0.5	364	408	< 2	76	2	50	2.77	< 10	19	< 1	< 10	1.90	46	139	4.86	0.08	1.88	0.20	0.033	< 10	8	< 10
26715	< 0.2	< 0.5	60	251	< 2	67	< 2	24	2.77	< 10	27	< 1	< 10	1.90	18	164	2.44	0.11	1.37	0.39	0.112	< 10	6	< 10
26716	< 0.2	< 0.5	134	229	< 2	124	2	30	2.43	< 10	34	< 1	< 10	1.57	38	236	2.65	0.16	1.59	0.32	0.005	< 10	7	< 10
26717	< 0.2	< 0.5	426	199	< 2	170	5	50	5.00	< 10	90	< 1	< 10	2.39	56	309	4.26	0.77	2.64	0.56	0.006	< 10	7	< 10
26718	< 0.2	< 0.5	310	204	< 2	141	3	47	3.50	< 10	72	< 1	< 10	1.55	53	262	3.97	0.58	2.31	0.37	0.012	< 10	5	< 10
26719	< 0.2	< 0.5	226	427	< 2	36	2	29	3.18	< 10	11	< 1	< 10	2.81	27	60	3.94	0.03	1.42	0.34	0.048	< 10	11	< 10
26720	0.8	< 0.5	1420	300	< 2	1380	28	30	5.88	< 10	23	< 1	< 10	2.82	52	181	3.47	0.02	3.57	0.41	0.003	< 10	3	< 10
26721	0.3	< 0.5	543	203	4	22	2	79	2.29	< 10	67	< 1	< 10	0.85	9	116	2.32	0.21	1.70	0.15	0.008	< 10	3	< 10
26722	< 0.2	< 0.5	379	299	4	29	< 2	110	2.83	< 10	105	< 1	< 10	0.25	12	63	4.14	0.36	2.62	0.09	0.014	< 10	6	< 10
26723	< 0.2	< 0.5	184	332	6	19	3	89	2.57	< 10	47	< 1	< 10	0.39	10	78	3.30	0.15	2.75	0.06	0.013	< 10	5	< 10
26724	< 0.2	< 0.5	17	267	< 2	83	< 2	27	2.71	< 10	9	< 1	< 10	1.85	14	134	2.31	0.04	2.18	0.26	0.001	< 10	3	< 10
26725	< 0.2	< 0.5	56	128	< 2	61	5	12	5.04	< 10	13	< 1	< 10	3.25	9	131	1.43	0.03	1.58	0.79	0.019	< 10	3	< 10
26726	0.9	< 0.5	564	88	< 2	76	6	14	6.20	< 10	25	< 1	< 10	4.32	10	147	0.97	0.05	0.63	0.78	0.043	< 10	2	< 10
26727	< 0.2	< 0.5	188	401	< 2	34	6	33	3.79	< 10	19	< 1	< 10	3.18	21	59	4.80	0.03	1.11	0.37	0.046	< 10	9	< 10
26728	< 0.2	< 0.5	14	129	< 2	53	14	19	3.80	< 10	13	< 1	< 10	2.43	8	96	1.31	0.03	1.30	0.57	0.004	< 10	3	< 10
26729	< 0.2	< 0.5	9	64	< 2	20	8	9	1.63	< 10	7	< 1	< 10	1.18	2	40	0.45	0.02	0.35	0.28	0.041	< 10	2	< 10
26730	< 0.2	< 0.5	3	9	< 2	< 1	< 2	2	0.03	< 10	8	< 1	< 10	0.03	< 1	2	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10
26731	0.8	0.7	661	221	< 2	870	15	35	3.64	< 10	11	< 1	< 10	3.15	50	114	4.03	0.03	1.55	0.34	0.004	< 10	5	< 10
26732	43.9	14.1	> 10000	136	< 2	1040	23	306	4.38	< 10	9	< 1	< 10	2.87	36	64	7.06	< 0.01	0.75	0.62	0.014	< 10	2	< 10
26733	4.9	1.9	3340	182	< 2	1530	33	58	5.43	< 10	13	< 1	< 10	3.80	107	95	6.17	0.01	0.97	0.67	0.008	< 10	4	< 10
26734	3.0	1.1	1920	159	< 2	769	69	93	5.31	< 10	38	< 1	< 10	3.29	49	195	4.33	0.31	1.83	0.51	0.004	< 10	4	< 10
26735	5.0	3.3	2680	194	< 2	969	78	104	3.62	< 10	25	< 1	< 10	2.63	60	160	4.60	0.06	1.20	0.54	0.012	< 10	5	< 10
26736	9.2	4.7	5380	258	< 2	2320	82	155	3.00	< 10	11	< 1	< 10	2.02	140	181	5.07	0.03	1.38	0.38	0.007	< 10	5	< 10
26737	8.3	5.7	4870	232	< 2	2310	83	152	2.97	< 10	11	< 1	< 10	2.17	105	197	9.05	0.03	1.27	0.42	0.007	< 10	5	< 10
26738	10.8	7.0	6150	207	< 2	2750	80	183	2.98	< 10	15	< 1	< 10	1.99	128	176	10.2	0.09	1.23	0.41	0.007	< 10	4	< 10
26739	9.2	10.0	5070	201	< 2	942	90	205	3.27	< 10	16	< 1	< 10	2.39	53	111	4.82	0.05	1.20	0.46	0.008	< 10	4	< 10
26740	0.5	< 0.5	1490	310	< 2	1410	29	27	6.00	< 10	24	< 1	< 10	2.92	54	166	3.76	0.03	0.71	0.41	0.003	< 10	3	< 10
26741	20.4	14.5	> 10000	222	< 2	1540	108	252	3.02	< 10	13	< 1	< 10	2.13	417	124	8.91	0.03	1.23	0.39	0.010	< 10	4	< 10
26742	16.7	12.0	6580	319	2	1560	91	255	3.15	< 10	17	< 1	< 10	1.65	185	126	8.37	0.40	1.85	0.26	0.022	< 10	7	< 10
26743	8.4	6.2	4140	190	< 2	1980	208	141	4.96	< 10	9	< 1	< 10	3.28	101	206	7.36	0.02	1.37	0.47	0.008	< 10	4	< 10
26744	6.5	4.7	2830	287	< 2	1020	147	116	3.25	< 10	8	< 1	< 10	2.28	77	130	4.09	0.03	0.60	0.18	0.007	< 10	2	< 10
26745	8.3	6.6	4240	276	< 2	1270	98	226	2.62	< 10	6	< 1	< 10	1.34	64	165	5.04	0.02	2.47	0.11	0.009	< 10		

Activation Laboratories Ltd. Report: A08-1147

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25745	6.7	8.9	3280	90	< 2	1030	259	114	6.21	< 10	9	< 1	< 10	4.30	88	113	3.78	0.03	0.88	0.42	0.007	< 10	2	< 10
25747	5.3	8.7	3070	65	< 2	1330	198	109	6.15	< 10	8	< 1	< 10	4.22	90	92	3.42	0.01	0.67	0.51	0.006	< 10	2	< 10
25748	9.5	13.4	7360	80	< 2	1420	244	234	6.54	< 10	9	< 1	< 10	4.21	103	100	5.83	< 0.01	0.88	0.60	0.009	< 10	3	< 10
25748	16.9	12.8	> 10000	81	< 2	3650	127	203	2.36	< 10	11	< 1	< 10	1.29	233	140	14.3	0.02	0.58	0.29	0.016	< 10	2	< 10
25750	< 0.2	< 0.5	8	10	< 2	1	< 2	1	0.03	< 10	9	< 1	< 10	0.03	< 1	2	0.06	0.01	0.02	0.02	0.003	< 10	1	< 10
25751	14.8	10.6	9680	48	< 2	5140	112	201	2.22	< 10	9	< 1	< 10	1.13	445	124	15.0	0.02	0.35	0.34	0.008	< 10	1	< 10
25752	4.1	9.5	3240	73	< 2	1110	197	175	5.03	< 10	19	< 1	< 10	3.04	109	93	5.14	0.07	0.76	0.63	0.011	< 10	2	< 10
25753	6.0	19.4	4100	71	< 2	836	168	238	4.70	< 10	29	< 1	< 10	2.49	85	98	4.78	0.23	1.26	0.64	0.008	< 10	3	< 10
25754	3.2	4.7	2310	53	< 2	1150	160	140	4.66	< 10	10	< 1	< 10	2.97	78	94	5.83	0.03	0.46	0.69	0.013	< 10	1	< 10
25755	5.8	9.3	6190	86	< 2	3500	66	321	1.95	< 10	13	< 1	< 10	0.73	135	136	14.4	0.07	1.12	0.23	0.011	< 10	2	< 10
25755	0.7	1.7	581	82	< 2	430	30	48	2.17	< 10	33	< 1	< 10	1.14	38	114	2.34	0.11	0.81	0.43	0.010	< 10	2	< 10
25757	5.0	2.1	7080	189	< 2	2020	73	289	2.07	< 10	14	< 1	< 10	0.85	272	72	12.0	0.16	1.27	0.17	0.022	< 10	3	< 10
25758	0.4	0.7	426	314	< 2	561	60	150	2.03	< 10	44	< 1	< 10	1.23	70	76	7.23	0.20	1.32	0.10	0.041	< 10	8	< 10
25759	< 0.2	0.6	124	430	< 2	36	33	141	3.36	< 10	14	< 1	< 10	2.51	18	75	5.61	0.03	1.14	0.37	0.049	< 10	8	< 10
25760	0.5	< 0.5	1440	302	< 2	1400	10	29	6.02	< 10	23	< 1	< 10	2.89	52	164	3.57	0.02	3.64	0.41	0.003	< 10	3	< 10
25761	< 0.2	0.7	129	402	< 2	37	48	74	2.39	< 10	8	< 1	< 10	1.80	19	88	4.98	0.02	1.02	0.13	0.046	< 10	7	< 10
25762	6.0	2.3	> 10000	326	< 2	3170	107	330	2.47	< 10	12	< 1	< 10	0.99	134	46	17.2	0.18	2.06	0.06	0.029	< 10	7	< 10
25763	8.3	4.6	> 10000	536	< 2	2720	147	582	3.27	< 10	11	< 1	12	1.52	98	124	16.1	0.06	2.76	0.09	0.010	< 10	6	< 10
25764	6.8	13.0	8330	833	< 2	2680	148	732	3.34	< 10	17	< 1	20	1.84	254	132	18.2	0.15	2.27	0.15	0.018	< 10	4	< 10
25765	3.0	5.7	3580	568	< 2	638	53	435	3.01	< 10	27	2	< 10	1.72	50	61	8.59	0.70	2.51	0.06	0.201	< 10	9	16
25766	< 0.2	< 0.5	99	492	2	20	5	95	2.46	< 10	74	< 1	< 10	1.38	18	31	5.81	0.59	1.53	0.09	0.076	< 10	9	< 10
25767	< 0.2	< 0.5	12	429	3	5	5	51	2.17	< 10	78	< 1	< 10	1.18	2	41	1.87	0.46	1.71	0.08	0.006	< 10	2	< 10
25768	< 0.2	< 0.5	105	275	5	44	5	44	1.83	< 10	42	< 1	< 10	0.64	4	59	2.06	0.25	1.86	0.03	0.006	< 10	1	< 10
25769	1.4	1.6	1140	317	6	324	26	77	2.63	< 10	44	< 1	< 10	1.48	35	113	3.51	0.23	1.82	0.16	0.013	< 10	3	< 10
25770	< 0.2	< 0.5	5	8	< 2	< 1	< 2	2	0.03	< 10	9	< 1	< 10	0.04	< 1	< 2	0.05	0.01	0.02	0.02	0.004	< 10	< 1	< 10
25771	< 0.2	< 0.5	6	457	5	6	9	61	2.38	< 10	50	< 1	< 10	1.19	2	66	2.06	0.27	1.87	0.07	0.006	< 10	2	< 10
25772	< 0.2	< 0.5	5	415	3	3	4	88	1.95	< 10	47	< 1	< 10	1.11	2	40	1.86	0.27	1.50	0.04	0.005	< 10	2	< 10
25773	< 0.2	< 0.5	23	310	17	13	4	37	1.64	< 10	53	< 1	< 10	0.46	2	171	1.56	0.26	1.27	0.04	0.005	< 10	1	< 10
25774	< 0.2	< 0.5	10	362	9	10	3	41	1.84	< 10	42	< 1	< 10	0.42	2	126	1.97	0.26	1.84	0.03	0.006	< 10	1	< 10
25775	< 0.2	< 0.5	8	532	11	10	< 2	101	2.28	< 10	44	< 1	< 10	0.30	3	152	2.83	0.24	2.46	0.04	0.012	< 10	3	< 10
25776	0.5	0.6	863	452	10	19	3	186	2.25	< 10	21	< 1	< 10	0.37	44	116	7.06	0.43	1.62	0.06	0.023	< 10	3	< 10
25777	0.5	1.7	878	863	12	22	4	724	2.62	< 10	32	< 1	< 10	0.33	50	167	7.91	0.48	1.78	0.04	0.032	< 10	3	< 10
25778	< 0.2	< 0.5	297	498	9	13	7	534	2.44	< 10	55	< 1	< 10	0.29	11	125	4.85	0.45	1.77	0.04	0.017	< 10	3	< 10
25779	0.6	2.8	790	464	13	16	12	412	1.76	< 10	39	< 1	< 10	0.22	32	176	4.59	0.32	1.30	0.04	0.012	< 10	1	< 10
25780	0.8	< 0.5	1490	301	< 2	1400	6	28	6.13	< 10	23	< 1	< 10	2.87	51	162	3.67	0.02	3.62	0.42	0.002	< 10	3	< 10
25781	< 0.2	< 0.5	13	363	13	23	< 2	72	1.75	< 10	45	< 1	< 10	0.18	7	165	1.96	0.26	1.36	0.04	0.019	< 10	2	< 10
25782	< 0.2	< 0.5	120	801	7	26	4	98	2.10	< 10	41	< 1	< 10	0.52	13	114	3.23	0.20	1.84	0.04	0.024	< 10	6	< 10
25783	0.3	< 0.5	258	1030	4	54	11	165	3.46	< 10	20	< 1	< 10	2.09	36	132	5.93	0.09	2.83	0.08	0.057	< 10	13	< 10
25784	< 0.2	< 0.5	162	786	3	44	< 2	88	2.68	< 10	15	< 1	< 10	1.76	30	102	6.72	0.08	2.07	0.11	0.046	< 10	11	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25694	57	0.12	126	< 10	10	3	0.905
25695	15	0.15	108	< 10	7	3	0.509
25696	17	0.14	88	< 10	7	2	0.411
25697	12	0.15	97	< 10	8	2	0.214
25698	14	0.16	96	< 10	9	2	0.248
25699	35	0.08	50	< 10	4	1	0.081
25700	68	0.02	33	< 10	< 1	1	0.472
25701	3	0.14	76	< 10	8	3	0.371
25702	19	0.22	121	< 10	10	3	0.691
25703	31	0.23	43	< 10	6	2	1.010
25704	24	0.12	115	< 10	10	2	0.391
25705	19	0.13	121	< 10	9	3	1.085
25706	20	0.15	58	< 10	20	4	0.902
25707	52	0.22	92	< 10	10	3	0.713
25708	53	0.10	51	< 10	5	2	0.681
25709	44	0.21	109	< 10	9	3	1.807
25710	1	< 0.01	< 1	< 10	< 1	4	0.018
25711	67	0.11	106	< 10	8	2	0.276
25712	54	0.14	110	< 10	8	2	0.846
25713	41	0.14	112	< 10	8	2	0.456
25714	23	0.13	86	< 10	6	2	0.961
25715	27	0.07	41	< 10	2	1	0.126
25716	17	0.06	40	< 10	2	1	0.227
25717	43	0.06	61	< 10	3	1	0.483
25718	24	0.09	54	< 10	2	2	0.397
25719	38	0.14	110	< 10	8	2	0.386
25720	67	0.02	33	< 10	< 1	1	0.468
25721	17	0.05	19	< 10	13	3	0.277
25722	13	0.07	21	< 10	9	6	0.482
25723	10	0.05	15	< 10	10	3	0.069
25724	23	0.03	27	< 10	1	< 1	0.024
25725	67	0.02	21	< 10	3	< 1	0.036
25725	64	0.02	17	< 10	5	< 1	0.162
25727	61	0.11	163	< 10	7	2	0.203
25728	51	0.03	16	< 10	1	< 1	0.033
25728	25	0.04	11	< 10	3	3	0.020
25730	1	< 0.01	< 1	< 10	< 1	4	0.016
25731	54	0.03	36	< 10	1	2	1.301
25732	71	0.03	17	< 10	< 1	2	4.194
25733	88	0.02	24	< 10	< 1	2	2.566
25734	66	0.05	41	< 10	2	1	1.377
25735	52	0.05	36	< 10	1	2	1.848
25736	37	0.03	38	< 10	1	3	4.230
25737	42	0.03	36	< 10	< 1	3	3.611
25738	41	0.03	36	< 10	< 1	3	3.816
25739	55	0.04	30	< 10	< 1	2	2.075
25740	71	0.02	34	< 10	< 1	1	0.499
25741	54	0.04	37	< 10	1	3	5.036
25742	36	0.06	69	< 10	2	6	3.709
25743	68	0.03	31	< 10	< 1	2	3.174
25744	39	0.03	18	< 10	< 1	2	1.684
25745	15	0.03	20	< 10	< 1	2	1.905

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25745	30	0.02	16	< 10	< 1	1	1.734
25747	86	0.02	14	< 10	< 1	1	1.696
25748	80	0.02	22	< 10	< 1	2	2.831
25748	26	0.03	46	< 10	2	7	7.285
25750	1	< 0.01	< 1	< 10	< 1	3	0.018
25751	25	0.02	43	< 10	1	6	8.593
25752	58	0.03	39	< 10	1	2	2.960
25753	52	0.05	84	< 10	1	2	2.180
25754	59	0.02	85	< 10	1	2	2.597
25755	14	0.04	74	< 10	1	5	5.698
25758	29	0.05	55	< 10	< 1	1	0.916
25757	13	0.05	112	< 10	2	4	5.017
25758	20	0.14	196	< 10	6	4	1.337
25759	54	0.11	175	< 10	6	2	0.123
25760	68	0.02	33	< 10	< 1	1	0.483
25761	33	0.11	144	< 10	5	2	0.173
25762	8	0.10	77	< 10	6	5	7.104
25763	10	0.03	76	< 10	2	4	4.966
25764	14	0.05	82	< 10	3	5	5.481
25765	12	0.12	59	< 10	14	12	2.011
25766	12	0.15	63	< 10	15	9	0.238
25767	10	0.08	2	< 10	15	21	0.016
25768	4	0.04	2	< 10	23	24	0.104
25769	17	0.05	23	< 10	19	21	0.854
25770	1	< 0.01	< 1	< 10	1	4	0.017
25771	10	0.06	< 1	< 10	22	21	0.013
25772	8	0.05	< 1	< 10	19	18	0.019
25773	5	0.04	2	< 10	20	25	0.018
25774	4	0.04	1	< 10	28	24	0.015
25775	5	0.07	5	< 10	28	22	0.039
25776	11	0.06	6	< 10	9	13	2.767
25777	8	0.09	22	< 10	9	9	1.757
25778	4	0.08	16	< 10	12	9	0.515
25779	5	0.04	5	< 10	15	14	1.458
25780	87	0.02	33	< 10	< 1	1	0.485
25781	3	0.07	7	< 10	23	12	0.020
25782	5	0.13	46	< 10	21	10	0.147
25783	13	0.20	166	< 10	12	4	0.422
25784	13	0.16	146	< 10	9	3	0.266

Activation Laboratories Ltd. Report: A08-1147

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.4	2.2	1140	784	14	38	816	858	334	168	<1	<10	1360	0.84	9	6	23.2	0.03	0.17	0.09	0.038	81	1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.1	< 0.5	6330	137	310	36	42	59	2.83	95	14	1	16	0.93	14	56	3.32	1.40	1.77	0.14	0.116	<10	7	< 10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	17.7	5.0	79	1020	<2	17	753	558	3.44	10	1170	<1	<10	0.81	9	25	2.03	0.54	0.56	0.38	0.052	19	5	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.2	< 0.5	66	1020	< 2	22	93	121	6.98	197	859	< 1	< 10	0.16	15	80	5.04	0.93	0.44	0.22	0.030	< 10	21	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.9	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
28696 Orig	0.2	< 0.5	469	337	< 2	30	< 2	32	1.31	< 10	11	< 1	< 10	1.53	24	41	2.54	0.02	0.84	0.12	0.046	< 10	6	< 10
28695 Dup	0.2	< 0.5	442	316	< 2	29	< 2	44	1.29	< 10	10	< 1	< 10	1.51	22	38	2.46	0.02	0.82	0.12	0.046	< 10	6	< 10
28705 Orig	0.5	< 0.5	696	526	4	63	7	57	3.52	< 10	17	< 1	< 10	2.91	74	101	6.09	0.03	1.91	0.34	0.061	< 10	12	< 10
28705 Dup	0.5	< 0.5	702	513	3	62	7	59	3.55	< 10	16	< 1	< 10	2.94	75	100	6.21	0.03	1.94	0.35	0.062	< 10	12	< 10
28723 Orig	< 0.2	< 0.5	177	319	5	19	3	89	2.60	< 10	44	< 1	< 10	0.39	10	76	3.16	0.14	2.67	0.06	0.012	< 10	5	< 10
28723 Dup	< 0.2	< 0.5	192	345	5	20	3	90	2.85	< 10	50	< 1	< 10	0.40	11	81	3.42	0.16	2.83	0.08	0.013	< 10	5	< 10
28745 Orig	6.8	8.8	3290	85	< 2	1050	260	116	6.28	< 10	10	< 1	< 10	4.33	50	114	3.82	0.03	0.85	0.42	0.007	< 10	2	< 10
28745 Dup	6.6	9.1	3280	95	< 2	1020	258	113	6.15	< 10	9	< 1	< 10	4.26	85	113	3.75	0.03	0.88	0.42	0.007	< 10	2	< 10
28760 Orig	0.5	< 0.5	1450	303	< 2	1420	13	29	6.01	< 10	23	< 1	< 10	2.88	53	163	3.57	0.02	3.64	0.41	0.003	< 10	3	< 10
28760 Dup	0.5	< 0.5	1430	301	< 2	1390	7	29	6.03	< 10	23	< 1	< 10	2.89	52	164	3.57	0.02	3.64	0.41	0.003	< 10	3	< 10
28773 Orig	< 0.2	< 0.5	24	306	17	13	4	38	1.83	< 10	52	< 1	< 10	0.46	2	170	1.52	0.26	1.25	0.04	0.005	< 10	1	< 10
28773 Dup	< 0.2	< 0.5	23	313	17	13	5	37	1.85	< 10	53	< 1	< 10	0.47	2	172	1.61	0.26	1.28	0.04	0.005	< 10	1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	3	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	189		76	127	22	17	0.194
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	69		79	12	11	9	1.819
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	87		46	< 10	10	10	0.036
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	30		166	< 10	6	6	0.014
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
28698 Orig	17	0.14	69	< 10	7	2	0.422
28698 Dup	17	0.14	87	< 10	7	2	0.399
25705 Orig	44	0.21	108	< 10	9	3	1.783
25705 Dup	44	0.22	110	< 10	9	3	1.831
25723 Orig	10	0.06	14	< 10	10	3	0.067
25723 Dup	10	0.08	16	< 10	10	4	0.072
25745 Orig	91	0.02	16	< 10	< 1	1	1.711
25745 Dup	89	0.02	16	< 10	< 1	1	1.756
25760 Orig	69	0.02	33	< 10	< 1	1	0.482
25760 Dup	68	0.02	33	< 10	< 1	1	0.484
25773 Orig	5	0.04	2	< 10	20	25	0.018
25773 Dup	5	0.04	2	< 10	21	25	0.019
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	0.002
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 10-Mar-08
Invoice No.: A08-1149
Invoice Date: 14-Apr-08
Your Reference: DOSSIER #21473

Expert Lab
127 Boul Industriel
Rouyn-Noranda Quebec J9X 6P2
Canada

ATTN: Evie Lafreniere

CERTIFICATE OF ANALYSIS

72 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-1149**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

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Activation Laboratories Ltd. Report: A08-1149

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
23501	0.2	< 0.5	470	257	6	49	6	23	1.66	< 10	33	< 1	< 10	1.63	20	146	1.80	0.04	0.99	0.21	0.014	< 10	4	< 10	
23602	3.6	1.1	2940	212	< 2	67	30	200	2.73	< 10	31	< 1	< 10	2.07	46	160	2.24	0.06	1.06	0.33	0.015	< 10	6	< 10	
23603	0.3	< 0.5	406	142	< 2	131	4	16	8.22	< 10	14	< 1	< 10	6.36	18	67	1.41	0.05	1.37	0.59	0.005	< 10	2	< 10	
23604	< 0.2	< 0.5	113	81	< 2	24	2	8	5.62	< 10	9	< 1	< 10	3.81	5	74	0.63	0.01	0.60	0.73	0.007	< 10	2	< 10	
23605	< 0.2	< 0.5	79	109	< 2	112	5	13	6.30	< 10	26	< 1	< 10	4.47	15	84	1.40	0.10	1.62	0.43	0.004	< 10	2	< 10	
23606	< 0.2	< 0.5	127	94	< 2	22	< 2	6	4.77	< 10	10	< 1	< 10	3.31	5	79	0.63	< 0.01	0.57	0.67	0.011	< 10	3	< 10	
23607	< 0.2	< 0.5	26	218	< 2	46	3	15	3.30	< 10	9	< 1	< 10	2.43	10	87	1.45	0.02	1.44	0.39	0.003	< 10	3	< 10	
23608	0.6	< 0.5	599	107	< 2	133	3	13	6.67	< 10	16	< 1	< 10	4.88	18	38	1.20	0.05	1.04	0.60	0.004	< 10	1	< 10	
23609	< 0.2	< 0.5	115	84	< 2	46	< 2	8	6.32	< 10	14	< 1	< 10	4.41	8	76	0.79	0.06	0.85	0.61	0.007	< 10	2	< 10	
23610	0.5	< 0.5	1460	306	< 2	1460	3	29	5.66	< 10	23	< 1	< 10	2.86	55	166	3.69	0.02	3.72	0.39	0.002	< 10	3	< 10	
23611	< 0.2	< 0.5	9	109	< 2	36	< 2	8	5.19	< 10	9	< 1	< 10	3.55	8	102	0.83	0.03	0.89	0.64	0.003	< 10	3	< 10	
23612	< 0.2	< 0.5	9	94	< 2	44	3	8	6.66	< 10	24	< 1	< 10	4.83	5	123	0.75	0.12	0.60	0.65	0.002	< 10	2	< 10	
23613	0.3	< 0.5	672	151	4	14	< 2	78	2.44	< 10	239	< 1	< 10	0.17	17	49	4.32	1.26	2.78	0.13	0.008	< 10	5	< 10	
23614	< 0.2	< 0.5	173	194	< 2	39	< 2	16	3.14	< 10	41	< 1	< 10	2.33	11	96	1.73	0.07	1.10	0.41	0.015	< 10	4	< 10	
23615	1.7	2.2	1580	215	5	10	< 2	150	3.05	< 10	193	< 1	< 10	0.10	14	64	5.84	1.68	3.20	0.14	0.008	< 10	6	< 10	
23616	< 0.2	< 0.5	82	423	< 2	23	2	27	2.35	< 10	43	< 1	< 10	2.39	13	62	2.97	0.06	1.25	0.36	0.096	< 10	11	< 10	
23617	< 0.2	< 0.5	65	157	3	27	3	35	2.05	< 10	233	< 1	< 10	0.71	16	85	3.46	0.63	1.90	0.13	0.020	< 10	9	< 10	
23618	< 0.2	< 0.5	111	72	< 2	116	8	8	7.77	< 10	14	< 1	< 10	6.83	11	72	0.77	0.02	0.62	0.69	0.006	< 10	2	< 10	
23619	< 0.2	< 0.5	21	97	< 2	26	4	8	4.99	< 10	9	< 1	< 10	3.33	4	101	0.68	0.01	0.80	0.68	0.006	< 10	3	< 10	
23620	< 0.2	< 0.5	3	8	< 2	< 1	< 2	< 1	0.03	< 10	8	< 1	< 10	0.04	< 1	< 2	0.65	0.01	0.02	0.02	0.004	< 10	< 1	< 10	
23621	< 0.2	< 0.5	318	113	< 2	117	3	16	5.67	< 10	23	< 1	< 10	3.80	15	268	1.53	0.11	1.61	0.36	0.007	< 10	3	< 10	
23622	< 0.2	< 0.5	95	77	< 2	56	8	9	8.64	< 10	11	< 1	< 10	6.00	8	51	0.63	0.01	0.43	0.72	0.004	< 10	2	< 10	
23623	< 0.2	< 0.5	16	170	< 2	24	3	11	6.32	< 10	10	< 1	< 10	4.53	5	80	0.99	0.01	0.75	0.56	0.012	< 10	5	< 10	
23624	< 0.2	< 0.5	73	386	< 2	61	< 2	20	2.75	< 10	10	< 1	< 10	1.82	19	94	2.39	0.04	1.60	0.11	0.015	< 10	6	< 10	
23625	< 0.2	< 0.5	86	553	2	70	< 2	25	3.33	< 10	6	< 1	< 10	2.75	24	146	3.32	< 0.01	2.16	0.05	0.012	< 10	6	< 10	
23626	0.3	< 0.5	336	423	< 2	61	5	35	3.82	< 10	17	< 1	< 10	1.91	20	161	3.35	0.05	2.62	0.16	0.013	< 10	8	< 10	
23627	0.3	0.8	361	282	< 2	85	11	73	4.29	< 10	11	< 1	< 10	2.89	23	78	2.16	0.02	1.18	0.53	0.007	< 10	8	< 10	
23628	0.2	< 0.5	312	401	< 2	79	7	38	4.29	< 10	9	< 1	< 10	3.33	25	134	3.10	0.02	1.64	0.32	0.018	< 10	7	< 10	
23629	< 0.2	< 0.5	78	194	< 2	42	5	8	4.25	< 10	11	< 1	< 10	3.10	11	76	1.47	0.04	1.22	0.30	0.014	< 10	6	< 10	
23630	0.6	< 0.5	1530	301	< 2	1440	39	29	5.64	< 10	23	< 1	< 10	2.34	53	159	3.69	0.02	3.65	0.40	0.003	< 10	3	< 10	
23631	0.6	< 0.5	604	201	< 2	316	26	22	4.75	< 10	13	< 1	< 10	3.38	21	79	2.10	0.02	1.25	0.43	0.011	< 10	6	< 10	
23632	0.9	1.0	443	205	< 2	622	53	28	4.43	< 10	12	< 1	< 10	3.40	46	90	3.61	0.03	1.32	0.47	0.011	< 10	7	< 10	
23633	1.1	1.4	636	212	< 2	336	51	30	4.65	< 10	11	< 1	< 10	3.23	25	91	2.30	0.02	1.32	0.42	0.014	< 10	6	< 10	
23634	2.1	2.3	875	205	< 2	367	76	43	4.10	< 10	12	< 1	< 10	3.18	27	96	2.60	0.03	1.33	0.37	0.012	< 10	6	< 10	
23635	1.4	1.4	822	208	< 2	285	48	30	4.91	< 10	12	< 1	< 10	3.40	22	89	2.16	0.03	1.36	0.48	0.011	< 10	6	< 10	
23636	6.3	8.3	2590	162	< 2	948	281	135	4.37	< 10	13	< 1	< 10	2.75	77	46	4.92	0.03	1.15	0.50	0.008	< 10	3	< 10	
23637	3.2	2.9	2760	208	3	1240	157	180	2.19	< 10	14	< 1	< 10	0.81	52	117	7.12	0.05	1.41	0.28	0.008	< 10	3	< 10	
23638	6.5	10.8	3000	441	< 2	591	81	344	3.98	< 10	15	< 1	15	1.03	104	138	6.69	0.06	3.11	0.27	0.009	< 10	6	< 10	
23639	0.3	1.2	220	149	< 2	164	90	76	4.39	< 10	14	< 1	< 10	2.76	17	67	1.66	0.03	0.60	0.62	0.008	< 10	2	< 10	
23640	< 0.2	< 0.5	4	12	< 2	< 1	< 2	1	0.03	< 10	9	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10	
23641	1.3	1.2	1560	226	< 2	416	55	113	2.75	< 10	24	< 1	< 10	1.33	75	133	4.53	0.07	1.45	0.39	0.009	< 10	3	< 10	
23642	4.8	8.4	2480	408	5	275	33	258	2.63	< 10	44	< 1	< 10	0.28	30	58	5.09	0.43	2.34	0.08	0.026	< 10	8	< 10	
23643	2.2	1.6	1310	447	< 2	2920	41	387	2.89	< 10	12	< 1	< 10	0.55	303	61	16.7	0.24	3.08	0.07	0.029	< 10	7	< 10	
23644	1.1	0.9	1060	330	< 2	546	48	260	2.80	< 10	38	< 1	< 10	0.50	41	66	7.67	0.21	2.65	0.06	0.046	< 10	5	< 10	
23645	2.4	1.5	1590	428	< 2	836	136	344	2.87	< 10	36	< 1	< 10	1.02	107	60	10.1	0.21	2.37	0.08	0.037	< 10	7	< 10	
23646	13.5	5.8	> 10000	521	< 2	1650	179	504	2.62	< 10	13	< 1	< 10	0.78	475	92	17.6	0.09	1.81	0.07	0.022	< 10	5	< 10	
23647	8.7	8.6	6920	579	< 2	4610	142	619	2.65	< 10	12	< 1	< 10	0.80	661	36	27.7	0.06	1.69	0.06	0.016	< 10	6	12	
23648	9.6	10.5	8890	562	< 2	2420	229	724	3.37	< 10	13	< 1	< 10	1.10	101	44	15.8	0.08	1.92	0.24	0.025	< 10	4	< 10	
23649	11.8	11.8	8890	543	< 2	2670	180	759	3.04	< 10	4	< 1	< 10	1.16	74	97	15.8	0.08	3.02	0.27	0.19	0.017	< 10	6	10
23650	0.5	< 0.5	1480	296	< 2	1420	8	27	5.74	< 10	22	< 1	< 10	2.80	52	166	3.69	0.02	3.63	0.40	0.002	< 10	3	< 10	
23651	6.1	5.3	5200	385	< 2	6320	84	410	2.07	< 10	15	< 1	< 10	1.05	106	41	26.9	0.10	1.17	0.12	0.017	< 10	3	< 10	
23652	7.5	4.5	7870	477	< 2	7880	12	385	1.96	< 10	7	< 1	< 10	1.04	123	42	32.5	0.02	1.62	0.0					

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23553	12.2	10.7	> 10000	1020	< 2	2390	13	874	4.35	< 10	4	< 1	< 10	0.66	115	39	21.4	< 0.01	3.73	0.02	0.022	< 10	12	15
23554	17.0	6.8	> 10000	810	< 2	1670	86	547	3.70	99	4	< 1	< 10	1.66	397	66	24.0	< 0.01	2.89	0.01	0.019	< 10	9	14
23555	13.7	6.8	> 10000	712	< 2	5670	15	593	3.24	13	5	< 1	< 10	1.42	175	60	28.3	0.01	2.53	0.02	0.016	< 10	8	15
23556	25.1	8.5	> 10000	518	< 2	5810	14	823	2.66	< 10	5	< 1	< 10	1.38	152	48	30.0	0.02	2.28	0.01	0.023	< 10	6	19
23557	21.1	5.4	> 10000	433	< 2	3160	22	717	2.50	< 10	15	< 1	< 10	0.37	41	30	17.0	0.07	2.46	0.02	0.029	< 10	7	13
23558	9.8	7.5	9150	545	4	2140	19	839	2.65	13	19	< 1	< 10	1.72	77	57	13.3	0.11	2.54	0.03	0.051	< 10	11	< 10
23559	0.2	0.8	316	748	4	64	2	157	3.04	< 10	38	< 1	< 10	1.01	15	40	6.17	0.20	3.04	0.03	0.078	< 10	10	< 10
23560	< 0.2	< 0.5	5	10	< 2	1	< 2	1	0.03	< 10	8	< 1	< 10	0.04	< 1	< 2	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10
23561	0.5	< 0.5	44.7	519	4	81	3	77	2.76	< 10	67	< 1	< 10	0.50	13	37	4.56	0.28	1.95	0.04	0.086	< 10	6	< 10
23562	< 0.2	< 0.5	107	703	3	23	< 2	76	3.06	< 10	23	< 1	< 10	1.79	26	43	7.67	0.13	2.26	0.03	0.107	< 10	13	< 10
23563	< 0.2	< 0.5	101	824	3	23	4	78	2.83	< 10	15	< 1	< 10	1.43	25	38	8.84	0.10	1.84	0.03	0.115	< 10	11	< 10
23564	< 0.2	< 0.5	26	363	5	8	3	45	1.60	< 10	38	< 1	< 10	0.64	3	64	2.06	0.17	1.42	0.05	0.007	< 10	2	< 10
23565	< 0.2	< 0.5	67	720	3	17	3	83	2.44	< 10	22	< 1	< 10	1.14	10	35	4.10	0.10	2.52	0.03	0.040	< 10	7	< 10
23566	< 0.2	< 0.5	17	901	3	17	4	95	3.42	< 10	32	< 1	< 10	1.47	16	33	4.76	0.19	2.55	0.06	0.036	< 10	11	< 10
23567	< 0.2	< 0.5	78	676	4	10	2	120	2.68	< 10	18	< 1	< 10	1.29	13	52	4.82	0.09	2.68	0.02	0.076	< 10	9	< 10
23568	< 0.2	< 0.5	24	597	3	9	3	98	2.81	< 10	56	< 1	< 10	0.89	11	36	3.91	0.18	2.61	0.06	0.068	< 10	8	< 10
23569	< 0.2	< 0.5	61	737	2	9	< 2	100	2.81	< 10	23	< 1	< 10	2.56	12	27	5.46	0.13	3.02	0.03	0.069	< 10	9	< 10
23570	0.5	< 0.5	1390	294	< 2	1430	9	28	5.47	< 10	21	< 1	< 10	2.78	53	166	3.66	0.02	3.66	0.37	0.003	< 10	3	< 10
23571	< 0.2	< 0.5	12	883	3	9	4	89	3.18	< 10	13	< 1	< 10	0.71	11	32	4.51	0.08	4.10	0.03	0.018	< 10	5	< 10
23572	< 0.2	< 0.5	10	295	5	8	< 2	37	1.61	< 10	40	< 1	< 10	0.20	2	51	1.86	0.17	1.92	0.03	0.007	< 10	2	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23501	22	0.05	36	< 10	2	3	0.229
23502	32	0.06	63	< 10	2	2	0.645
23503	109	0.02	13	< 10	< 1	< 1	0.034
23504	83	0.02	11	< 10	< 1	< 1	0.037
23505	80	0.03	15	< 10	< 1	< 1	0.043
23506	81	0.02	13	< 10	< 1	< 1	0.037
23507	48	0.02	19	< 10	< 1	< 1	0.021
23508	102	0.02	11	< 10	< 1	< 1	0.169
23509	90	0.02	13	< 10	< 1	< 1	0.041
23510	70	0.02	33	< 10	< 1	1	0.506
23511	74	0.02	13	< 10	< 1	< 1	0.023
23512	93	0.02	15	< 10	< 1	< 1	0.030
23513	4	0.16	89	< 10	3	5	0.336
23514	36	0.05	34	< 10	3	2	0.107
23515	5	0.13	20	< 10	3	5	0.452
23516	34	0.10	96	< 10	8	2	0.109
23517	13	0.17	116	< 10	4	3	0.074
23518	106	0.02	12	< 10	< 1	< 1	0.119
23519	70	0.02	16	< 10	< 1	< 1	0.023
23520	1	< 0.01	< 1	< 10	< 1	3	0.017
23521	77	0.05	29	< 10	< 1	< 1	0.062
23522	110	0.01	12	< 10	< 1	< 1	0.114
23523	78	0.04	26	< 10	2	< 1	0.031
23524	16	0.04	49	< 10	2	1	0.136
23525	14	0.07	73	< 10	3	2	0.110
23526	18	0.10	87	< 10	9	2	0.089
23527	48	0.04	38	< 10	2	1	0.448
23528	41	0.06	56	< 10	3	2	0.302
23529	56	0.03	32	< 10	2	< 1	0.033
23530	70	0.02	33	< 10	< 1	1	0.502
23531	63	0.03	26	< 10	2	< 1	0.481
23532	68	0.03	36	< 10	2	1	1.335
23533	67	0.04	34	< 10	2	1	0.526
23534	62	0.03	32	< 10	2	1	0.660
23535	66	0.03	30	< 10	2	< 1	0.450
23536	67	0.02	33	< 10	< 1	1	2.173
23537	20	0.06	81	< 10	1	2	2.902
23538	28	0.03	91	< 10	2	2	2.887
23539	63	0.03	37	< 10	< 1	< 1	0.761
23540	2	< 0.01	< 1	< 10	1	4	0.019
23541	35	0.05	65	< 10	2	2	1.625
23542	13	0.11	36	< 10	6	3	0.929
23543	19	0.06	127	< 10	4	5	4.954
23544	18	0.08	143	< 10	4	2	1.217
23545	20	0.12	214	< 10	6	3	2.356
23546	10	0.08	133	< 10	3	5	7.354
23547	7	0.05	100	< 10	4	7	7.703
23548	17	0.03	59	< 10	5	4	5.261
23549	21	0.04	89	< 10	5	3	6.179
23550	69	0.02	33	< 10	< 1	1	0.501
23551	15	0.03	105	< 10	3	7	7.044
23552	4	0.05	95	< 10	3	6	6.486

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23553	2	0.05	92	< 10	6	6	4.826
23564	5	0.05	87	< 10	5	6	8.959
23565	4	0.07	117	< 10	5	8	7.036
23566	3	0.05	107	< 10	4	8	7.023
23567	3	0.10	66	< 10	9	9	6.133
23568	5	0.13	70	< 10	18	8	4.696
23569	5	0.20	64	< 10	17	5	0.264
23560	1	< 0.01	< 1	< 10	1	4	0.019
23561	5	0.17	52	< 10	17	5	0.182
23562	13	0.22	91	< 10	19	4	0.341
23563	23	0.17	99	< 10	18	4	0.257
23564	7	0.07	3	< 10	20	17	0.021
23565	11	0.18	35	< 10	22	9	0.036
23566	19	0.20	78	< 10	17	4	0.046
23567	14	0.21	66	< 10	14	5	0.046
23568	11	0.17	49	< 10	18	7	0.018
23569	6	0.16	61	< 10	17	5	0.059
23570	88	0.02	32	< 10	< 1	1	0.494
23571	3	0.05	18	< 10	14	12	0.199
23572	3	0.03	2	< 10	17	21	0.018

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GXR-1 Meas	23.7	2.6	1090	721	13	36	966	633	0.31	336	313	<1	1380	0.71	8	6	23.4	0.02	0.14	0.07	0.037	73	1	23
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.62	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-1 Meas	24.7	2.7	1140	760	14	36	574	621	0.61	343	289	<1	1360	0.80	9	6	24.6	0.03	0.17	0.11	0.036	71	1	24
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.62	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.68	54.0
GXR-4 Meas	3.3	< 0.5	6480	132	316	38	43	66	2.66	96	22	1	15	0.91	13	54	3.39	1.42	1.82	0.14	0.116	< 10	7	< 10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.66	0.964	0.120	4.80	7.70	5.60
GXR-4 Meas	3.3	< 0.5	6670	142	329	41	43	69	2.70	101	23	1	18	0.96	14	57	3.63	1.56	1.92	0.14	0.121	< 10	7	< 10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.66	0.964	0.120	4.80	7.70	5.60
GXR-2 Meas	17.7	5.0	82	992	< 2	16	731	546	3.28	12	1190	< 1	< 10	0.77	8	26	2.11	0.59	0.68	0.25	0.054	29	5	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	3.65	25.0	2240	1.70	0.690	0.930	8.80	36.0	1.86	1.37	0.860	0.566	0.106	49.0	6.88	1.70
GXR-2 Meas	15.9	4.5	76	943	< 2	15	666	488	3.10	14	1150	< 1	< 10	0.72	8	23	1.98	0.54	0.53	0.35	0.049	28	4	< 10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	3.65	25.0	2240	1.70	0.690	0.930	8.80	36.0	1.86	1.37	0.860	0.566	0.106	49.0	5.88	1.70
GXR-6 Meas	0.2	< 0.5	64	806	< 2	20	87	116	5.40	198	702	< 1	< 10	0.14	11	73	5.37	0.85	0.40	0.12	0.028	< 10	20	< 10
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	3.8	96.0	6.58	1.87	0.609	0.104	0.0360	3.80	27.8	1.70
GXR-6 Meas	0.2	< 0.5	75	1080	< 2	27	95	124	7.02	231	953	< 1	< 10	0.17	15	84	6.76	1.05	0.47	0.23	0.033	< 10	23	< 10
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	3.8	96.0	6.58	1.87	0.609	0.104	0.0360	3.80	27.6	1.70
OREAS 13P Meas			2730			2210																		
OREAS 13P Cert			2900			2260																		
OREAS 13P Meas			2800			2310																		
OREAS 13P Cert			2900			2260																		
23609 Orig	0.7	< 0.5	569	106	< 2	133	3	13	6.33	< 10	15	< 1	< 10	4.88	18	36	1.20	0.05	1.04	0.47	0.004	< 10	1	< 10
23609 Dup	0.6	< 0.5	630	107	< 2	134	3	13	7.00	< 10	14	< 1	< 10	4.89	18	39	1.20	0.05	1.04	0.52	0.004	< 10	1	< 10
23621 Orig	< 0.2	< 0.5	306	114	< 2	117	4	16	5.40	< 10	24	< 1	< 10	3.81	15	269	1.66	0.11	1.82	0.34	0.007	< 10	3	< 10
23621 Dup	0.2	< 0.5	332	112	< 2	117	2	16	5.65	< 10	23	< 1	< 10	3.79	15	268	1.52	0.11	1.80	0.38	0.007	< 10	3	< 10
23635 Orig	1.4	1.4	817	212	< 2	262	48	30	4.67	< 10	12	< 1	< 10	3.41	22	90	2.17	0.03	1.35	0.48	0.011	< 10	6	< 10
23635 Dup	1.4	1.3	826	204	< 2	287	48	29	4.66	< 10	12	< 1	< 10	3.39	22	86	2.16	0.03	1.36	0.48	0.011	< 10	6	< 10
23663 Dup	12.3	10.6	> 10000	1020	< 2	2390	14	878	4.35	< 10	4	< 1	< 10	0.66	114	38	21.4	< 0.01	3.72	0.02	0.022	< 10	12	15
23663 Dup	12.1	10.8	> 10000	1020	< 2	2400	13	889	4.35	< 10	4	< 1	< 10	0.67	117	36	21.4	< 0.01	3.73	0.02	0.022	< 10	12	16
23667 Orig	< 0.2	< 0.5	73	876	4	10	3	119	2.69	< 10	18	< 1	< 10	1.30	14	52	4.84	0.09	2.68	0.02	0.076	< 10	9	< 10
23667 Dup	< 0.2	< 0.5	83	876	4	9	2	120	3.06	< 10	18	< 1	< 10	1.27	13	61	4.81	0.09	2.69	0.02	0.076	< 10	9	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	9	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.02	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	188		71	136	23	12	0.190
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-1 Meas	159		75	126	23	17	0.189
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	67		82	12	12	9	1.842
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-4 Meas	74		85	12	12	10	1.891
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	88		47	< 10	11	10	0.037
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-2 Meas	85		43	< 10	10	10	0.033
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	26		153	< 10	6	9	0.013
GXR-6 Cert	36.0		186	1.90	14.0	110	0.0160
GXR-6 Meas	34		181	< 10	7	10	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
OREAS 13P Meas							
OREAS 13P Cert							
23508 Orig	102	0.02	11	< 10	< 1	< 1	0.159
23508 Dup	102	0.02	11	< 10	< 1	< 1	0.160
23521 Orig	77	0.04	29	< 10	< 1	< 1	0.063
23521 Dup	77	0.05	29	< 10	< 1	< 1	0.061
23535 Orig	66	0.03	31	< 10	2	< 1	0.449
23535 Dup	66	0.03	30	< 10	2	< 1	0.450
23563 Orig	2	0.05	92	< 10	6	6	4.798
23563 Dup	2	0.05	93	< 10	6	6	4.854
23567 Orig	14	0.21	66	< 10	14	5	0.047
23567 Dup	14	0.20	66	< 10	14	5	0.044
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 17-Mar-08
Invoice No.: A08-1271
Invoice Date: 09-Apr-08
Your Reference: DOSSIER 21576

Expert Lab
127 Boul Industriel
Rouyn-Noranda Quebec J9X 6P2
Canada

ATTN: Evie Lafreniere

CERTIFICATE OF ANALYSIS

88 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-1271**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman". The signature is written in a cursive, flowing style.

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-1271

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23251	6.0	4.0	3930	122	< 2	76	14	76	3.70	< 10	83	< 1	< 10	2.02	19	76	3.04	0.49	1.29	0.67	0.084	< 10	5	< 10
23262	2.7	1.6	1960	126	< 2	46	7	54	1.36	< 10	31	< 1	< 10	1.16	14	63	3.52	0.16	0.84	0.16	0.148	< 10	3	< 10
23263	1.8	0.8	846	182	< 2	32	13	45	2.25	< 10	35	< 1	< 10	1.45	13	74	3.20	0.14	0.84	0.39	0.108	< 10	3	< 10
23264	7.3	3.0	2910	77	< 2	66	7	69	1.70	< 10	93	< 1	< 10	0.92	18	53	3.17	0.38	0.91	0.26	0.133	< 10	3	< 10
23265	3.1	1.8	1590	100	< 2	57	6	63	1.66	< 10	95	< 1	< 10	0.96	17	81	3.40	0.51	1.18	0.32	0.112	< 10	5	< 10
23266	0.4	< 0.5	114	101	< 2	31	10	49	5.72	< 10	97	< 1	< 10	3.41	8	71	2.87	0.89	1.45	0.87	0.108	< 10	6	< 10
23267	1.2	< 0.5	590	209	< 2	49	8	100	4.68	< 10	133	< 1	< 10	1.96	13	96	3.60	0.88	2.35	0.50	0.055	< 10	7	< 10
23268	0.8	< 0.5	396	211	6	12	7	99	3.85	< 10	106	< 1	< 10	1.72	9	81	2.80	0.89	2.41	0.32	0.019	< 10	3	< 10
23269	< 0.2	< 0.5	36	338	< 2	22	4	98	2.34	< 10	90	< 1	< 10	0.57	9	57	3.97	0.51	2.47	0.07	0.033	< 10	8	< 10
23270	< 0.2	< 0.5	4	12	< 2	< 1	< 2	2	0.04	< 10	12	< 1	< 10	0.04	< 1	3	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10
23271	0.4	< 0.5	315	157	< 2	36	5	84	1.91	< 10	134	< 1	< 10	0.39	16	46	4.56	0.89	2.12	0.10	0.103	< 10	10	< 10
23272	1.0	0.5	691	88	< 2	36	4	51	1.33	< 10	85	< 1	< 10	0.39	13	93	2.90	0.45	1.33	0.10	0.095	< 10	5	< 10
23273	1.9	1.8	840	116	< 2	178	11	49	1.78	< 10	101	< 1	< 10	0.83	16	84	3.76	0.90	1.78	0.19	0.067	< 10	4	< 10
23274	2.2	1.3	2520	149	< 2	1470	8	132	2.53	< 10	15	< 1	< 10	0.20	52	149	11.1	0.83	2.44	0.12	0.015	< 10	6	< 10
23275	1.0	1.0	1010	105	< 2	535	15	128	1.95	< 10	33	< 1	< 10	0.25	42	61	6.27	0.95	2.01	0.12	0.030	< 10	6	< 10
23276	7.3	1.8	8220	166	< 2	1010	17	224	2.11	< 10	11	< 1	< 10	0.25	328	121	10.8	0.79	1.87	0.16	0.036	< 10	5	< 10
23277	2.1	0.8	2310	244	< 2	910	21	337	2.73	< 10	19	< 1	< 10	0.21	55	94	9.85	1.16	2.55	0.13	0.028	< 10	8	< 10
23278	6.1	0.8	6220	276	< 2	1380	23	265	2.66	< 10	9	< 1	< 10	0.17	73	124	12.4	0.77	2.02	0.13	0.021	< 10	7	< 10
23279	3.8	1.8	4270	199	< 2	1030	30	319	2.09	< 10	17	< 1	< 10	0.20	54	65	9.45	0.78	1.89	0.09	0.037	< 10	7	< 10
23280	0.6	< 0.5	1650	317	< 2	1560	10	29	5.97	< 10	26	< 1	< 10	2.96	49	172	4.06	0.03	3.93	0.45	0.003	< 10	3	< 10
23281	8.0	10.3	8030	265	< 2	1520	32	611	2.61	< 10	14	< 1	< 10	0.14	83	98	12.3	0.80	2.18	0.09	0.025	< 10	4	< 10
23282	4.1	9.9	3820	197	< 2	2280	42	610	1.65	< 10	10	< 1	< 10	0.21	103	72	15.4	0.48	1.54	0.11	0.026	< 10	3	< 10
23283	9.6	11.1	9570	254	< 2	2020	34	559	2.61	< 10	8	< 1	< 10	0.13	83	81	15.2	0.55	2.11	0.06	0.020	< 10	4	< 10
23284	1.8	4.8	1690	207	< 2	481	43	420	2.21	< 10	40	< 1	< 10	0.18	41	60	6.09	0.43	1.80	0.08	0.031	< 10	4	< 10
23285	12.8	30.8	> 10000	200	< 2	3540	28	1050	1.41	< 10	8	< 1	< 10	0.09	156	62	22.4	0.09	0.90	0.06	0.017	< 10	1	< 10
23286	13.0	16.2	> 10000	87	< 2	3260	84	778	1.86	< 10	9	< 1	< 10	1.00	136	36	24.3	0.03	0.18	0.32	0.026	< 10	< 1	< 10
23287	4.8	6.0	5770	53	< 2	8630	23	338	0.31	< 10	7	< 1	< 10	0.10	304	39	46.8	0.02	0.14	0.03	0.009	< 10	< 1	< 10
23288	10.3	41.5	> 10000	85	< 2	5390	41	1140	0.67	< 10	7	< 1	< 10	0.27	249	37	26.6	0.06	0.33	0.10	0.015	< 10	< 1	< 10
23289	0.7	1.7	566	232	< 2	151	52	239	3.05	< 10	132	< 1	< 10	0.58	22	127	6.80	0.91	2.61	0.17	0.032	< 10	8	< 10
23290	< 0.2	< 0.5	7	10	< 2	1	< 2	2	0.04	< 10	12	< 1	< 10	0.04	< 1	3	0.06	0.01	0.02	0.02	0.005	< 10	< 1	< 10
23291	< 0.2	< 0.5	124	159	< 2	62	8	183	2.13	< 10	130	< 1	< 10	0.21	10	106	3.86	0.96	1.85	0.09	0.003	< 10	6	< 10
23292	< 0.2	< 0.5	36	237	< 2	83	8	231	4.04	< 10	98	< 1	< 10	0.20	11	180	3.52	0.48	2.94	0.11	0.044	< 10	5	< 10
23293	< 0.2	< 0.5	27	173	< 2	48	15	148	3.32	< 10	181	< 1	< 10	0.21	15	97	3.80	0.84	3.15	0.09	0.059	< 10	9	< 10
23294	0.7	2.0	748	575	< 2	203	125	364	3.64	< 10	75	< 1	< 10	0.55	21	84	8.19	0.38	4.22	0.07	0.036	< 10	11	11
23295	9.7	10.8	> 10000	395	< 2	1090	85	482	2.22	< 10	19	< 1	< 10	1.20	47	77	10.9	0.53	1.76	0.12	0.099	< 10	7	17
23296	20.2	63.4	5900	910	< 2	1170	1370	2690	2.62	< 10	7	< 1	< 10	0.52	303	176	16.0	0.34	2.30	0.04	0.030	< 10	6	15
23297	29.2	72.2	> 10000	163	< 2	4780	330	2330	0.48	< 10	3	< 1	< 10	0.17	1640	36	37.1	0.05	0.27	0.02	0.010	< 10	< 1	19
23298	25.3	53.0	> 10000	89	< 2	7090	260	1130	0.35	< 10	6	< 1	< 10	0.13	483	41	41.0	0.04	0.18	0.03	0.013	< 10	< 1	10
23299	9.4	21.0	7960	103	< 2	7610	99	671	0.37	< 10	6	< 1	< 10	0.10	612	33	43.3	0.12	0.27	0.03	0.011	< 10	< 1	< 10
23300	0.8	< 0.5	1610	310	< 2	1560	6	30	5.88	< 10	26	< 1	< 10	0.28	51	188	4.13	0.03	3.84	0.44	0.003	< 10	3	< 10
23301	30.0	75.4	> 10000	209	< 2	1060	1080	3050	0.65	< 10	11	< 1	< 10	0.16	104	60	8.32	0.25	0.45	0.03	0.032	< 10	2	14
23302	1.4	1.1	1170	504	< 2	88	46	209	2.64	< 10	147	< 1	< 10	0.25	17	60	4.57	0.85	2.13	0.06	0.026	< 10	5	< 10
23303	0.2	< 0.5	196	334	< 2	28	26	82	3.39	< 10	215	< 1	< 10	0.29	10	133	4.27	1.08	1.82	0.16	0.029	< 10	5	< 10
23304	< 0.2	< 0.5	37	231	< 2	6	8	45	2.74	< 10	181	< 1	< 10	0.13	6	40	3.37	0.85	1.68	0.10	0.021	< 10	3	< 10
23305	< 0.2	< 0.5	26	404	< 2	16	14	50	3.29	< 10	230	< 1	< 10	0.78	9	105	4.46	0.74	1.98	0.13	0.034	< 10	7	< 10
23306	< 0.2	< 0.5	57	479	< 2	12	7	83	3.75	< 10	271	< 1	< 10	0.44	14	59	5.97	1.24	2.55	0.13	0.057	< 10	10	< 10
23307	< 0.2	< 0.5	40	372	< 2	13	7	103	3.66	< 10	239	< 1	< 10	0.32	13	131	4.70	0.75	2.37	0.13	0.067	< 10	8	< 10
23308	< 0.2	< 0.5	74	214	< 2	12	7	152	3.01	< 10	38	< 1	< 10	0.49	9	101	5.12	0.19	1.70	0.11	0.078	< 10	2	< 10
23309	2.1	1.6	1960	357	< 2	2000	14	2600	2.68	< 10	12	< 1	< 10	0.29	113	56	21.0	0.76	2.60	0.05	0.065	< 10	4	< 10
23310	< 0.2	< 0.5	8	12	< 2	1	< 2	2	0.05	< 10	12	< 1	< 10	0.05	< 1	3	0.08	0.02	0.02	0.02	0.006	< 10	< 1	< 10
23311	< 0.2	< 0.5	173	291	< 2	16	5	183	3.22	< 10	179	< 1	< 10	0.25	9	64	5.75	0.64	2.25	0.13	0.043	< 10	5	< 10
23312	< 0.2	< 0.5	171	705	2	16	4	288	3.76	< 10	101	< 1	< 10	0.41	15	96	8.14	0.42	2.85	0.07	0.057	< 10	6	< 10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
23313	< 0.2	< 0.5	95	403	< 2	9	6	159	3.31	< 10	169	< 1	< 10	0.58	12	59	5.73	0.83	2.25	0.12	0.050	< 10	7	< 10
23314	2.4	0.8	2030	553	3	467	47	448	2.63	< 10	26	< 1	23	0.61	55	86	8.91	1.19	2.24	0.10	0.027	< 10	4	< 10
23315	< 0.2	< 0.5	65	446	3	5	11	217	2.43	< 10	122	< 1	< 10	0.22	4	49	2.94	0.88	1.48	0.11	0.013	< 10	3	< 10
23316	< 0.2	< 0.5	19	489	< 2	8	8	175	3.23	< 10	142	< 1	< 10	1.11	3	100	2.32	0.87	1.52	0.14	0.017	< 10	3	< 10
23317	< 0.2	< 0.5	8	836	< 2	15	5	279	4.08	< 10	296	< 1	< 10	1.12	9	52	4.29	1.31	2.43	0.14	0.048	< 10	8	< 10
23318	< 0.2	< 0.5	5	394	< 2	5	6	83	2.75	< 10	121	< 1	< 10	0.83	2	108	1.94	0.86	1.44	0.11	0.011	< 10	2	< 10
23319	< 0.2	< 0.5	3	395	< 2	7	5	84	2.88	< 10	125	< 1	< 10	0.60	3	108	2.61	0.81	1.84	0.09	0.015	< 10	2	< 10
23320	0.5	< 0.5	1900	300	< 2	1600	23	26	5.90	< 10	27	< 1	< 10	2.75	45	161	3.99	0.03	3.77	0.44	0.003	< 10	3	< 10
23321	< 0.2	< 0.5	7	287	< 2	6	4	74	2.58	< 10	101	< 1	< 10	0.19	4	95	2.78	0.83	1.55	0.07	0.006	< 10	2	< 10
23322	< 0.2	< 0.5	2	317	< 2	7	4	67	2.44	< 10	78	< 1	< 10	0.44	4	67	2.27	0.63	1.48	0.06	0.006	< 10	2	< 10
23323	< 0.2	< 0.5	2	422	< 2	13	6	92	3.14	< 10	113	< 1	< 10	0.59	4	92	2.89	0.97	2.04	0.12	0.008	< 10	3	< 10
23324	1.7	0.5	1530	591	3	329	35	340	2.58	< 10	28	< 1	17	1.05	53	68	6.69	0.87	2.12	0.09	0.021	< 10	4	< 10
23325	< 0.2	< 0.5	14	399	6	5	3	141	2.65	< 10	139	< 1	< 10	0.09	3	80	3.32	1.02	1.78	0.07	0.003	< 10	2	< 10
23326	< 0.2	< 0.5	155	182	< 2	347	< 2	42	3.05	< 10	58	< 1	< 10	0.69	41	123	3.67	0.27	4.72	0.08	0.005	< 10	2	< 10
23327	< 0.2	< 0.5	183	155	< 2	301	< 2	26	3.45	< 10	34	< 1	< 10	1.88	39	97	2.36	0.14	2.58	0.18	0.007	< 10	2	< 10
23328	< 0.2	< 0.5	176	332	< 2	36	< 2	29	1.21	< 10	18	< 1	< 10	1.41	19	41	2.94	0.06	1.04	0.14	0.051	< 10	8	< 10
23329	< 0.2	< 0.5	236	504	< 2	42	< 2	36	1.64	< 10	74	< 1	< 10	1.77	24	71	4.65	0.25	1.59	0.25	0.047	< 10	12	< 10
23330	< 0.2	< 0.5	4	11	< 2	< 1	< 2	2	0.04	< 10	14	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.02	0.006	< 10	< 1	< 10
23331	< 0.2	< 0.5	178	300	< 2	30	< 2	22	1.17	< 10	53	< 1	< 10	1.28	19	35	2.77	0.18	0.88	0.18	0.051	< 10	7	< 10
23332	< 0.2	< 0.5	221	190	< 2	249	< 2	28	3.75	< 10	11	< 1	< 10	1.84	38	121	2.63	0.02	3.30	0.19	0.012	< 10	3	< 10
23333	0.3	< 0.5	573	188	< 2	256	< 2	37	3.37	< 10	8	< 1	< 10	0.88	50	149	3.16	0.01	4.01	0.09	0.008	< 10	1	< 10
23336	< 0.2	< 0.5	36	217	< 2	323	< 2	33	3.70	< 10	35	< 1	< 10	1.91	34	212	3.30	0.08	3.83	0.19	0.009	< 10	3	< 10
23337	< 0.2	< 0.5	36	140	< 2	157	< 2	21	5.55	< 10	11	< 1	< 10	3.51	17	126	1.68	0.02	1.78	0.32	0.006	< 10	2	< 10
23338	< 0.2	< 0.5	72	196	< 2	188	3	31	7.38	< 10	134	< 1	< 10	4.42	32	532	3.40	0.30	2.78	0.56	0.004	< 10	2	< 10
23339	< 0.2	< 0.5	352	102	< 2	261	< 2	33	7.34	< 10	144	< 1	< 10	4.14	40	569	4.11	0.71	2.85	0.58	0.004	< 10	2	< 10
23340	0.6	< 0.5	1060	312	< 2	1540	27	28	6.06	< 10	26	< 1	< 10	2.90	48	170	4.04	0.03	3.89	0.46	0.003	< 10	3	< 10
23341	< 0.2	< 0.5	159	133	< 2	226	3	28	7.23	< 10	203	< 1	< 10	4.48	25	719	3.09	0.45	2.28	0.75	0.004	< 10	3	< 10
23342	< 0.2	< 0.5	23	123	< 2	143	2	18	7.20	< 10	46	< 1	< 10	4.82	15	369	1.91	0.11	1.77	0.69	0.005	< 10	3	< 10
23343	< 0.2	< 0.5	22	127	< 2	141	2	20	7.27	< 10	47	< 1	< 10	4.96	16	380	1.89	0.11	1.77	0.69	0.005	< 10	3	< 10
23344	< 0.2	< 0.5	491	209	< 2	73	2	18	4.13	< 10	40	< 1	< 10	2.99	35	124	3.12	0.06	1.05	0.36	0.041	< 10	5	< 10
23345	< 0.2	< 0.5	190	236	< 2	69	2	20	3.30	< 10	44	< 1	< 10	2.42	28	162	3.23	0.10	1.29	0.36	0.031	< 10	6	< 10
23346	< 0.2	< 0.5	161	281	< 2	37	2	22	3.48	< 10	89	< 1	< 10	2.79	23	47	2.95	0.10	0.95	0.27	0.046	< 10	6	< 10
23347	< 0.2	< 0.5	156	557	< 2	38	3	43	4.31	< 10	168	< 1	< 10	3.57	24	82	5.47	0.46	1.85	0.56	0.046	< 10	14	< 10
23348	0.2	< 0.5	340	387	< 2	34	3	28	3.10	< 10	42	< 1	< 10	2.61	21	47	3.53	0.07	1.26	0.24	0.053	< 10	7	< 10
23349	< 0.2	< 0.5	215	421	< 2	36	4	29	3.66	< 10	101	< 1	< 10	3.42	22	55	4.13	0.21	1.24	0.51	0.053	< 10	11	< 10
23350	< 0.2	< 0.5	4	13	< 2	< 1	< 2	2	0.05	< 10	11	< 1	< 10	0.04	< 1	3	0.06	0.01	0.02	0.02	0.005	< 10	< 1	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23251	25	0.12	109	< 10	7	3	0.546
23262	10	0.08	147	< 10	13	2	0.321
23283	23	0.09	148	< 10	9	2	0.188
23284	14	0.08	164	< 10	10	2	0.505
23285	18	0.13	162	< 10	9	3	0.349
23286	45	0.10	109	< 10	9	2	0.055
23287	28	0.13	63	< 10	8	5	0.165
23288	16	0.10	11	< 10	10	8	0.128
23289	8	0.14	55	< 10	15	6	0.060
23270	2	< 0.01	< 1	< 10	1	4	0.020
23271	3	0.13	129	< 10	8	4	0.190
23272	4	0.10	123	< 10	6	3	0.126
23273	7	0.10	75	< 10	8	5	0.804
23274	6	0.09	103	< 10	2	3	3.781
23275	3	0.13	58	< 10	4	3	1.607
23276	4	0.11	66	< 10	4	4	4.963
23277	5	0.14	52	< 10	4	4	2.471
23278	6	0.11	74	< 10	3	16	4.371
23279	8	0.11	82	< 10	4	7	2.875
23280	71	0.02	36	< 10	< 1	< 1	0.519
23281	5	0.09	71	< 10	3	6	3.862
23282	7	0.08	99	< 10	3	4	5.344
23283	5	0.08	89	< 10	3	5	5.518
23284	5	0.08	83	< 10	4	3	1.476
23285	3	0.05	120	< 10	1	5	6.972
23286	22	0.03	104	< 10	2	6	6.880
23287	2	0.01	54	< 10	< 1	8	7.165
23288	7	0.02	86	< 10	1	6	7.806
23289	14	0.14	146	< 10	4	2	0.488
23290	2	< 0.01	< 1	< 10	1	4	0.024
23291	6	0.10	110	< 10	3	1	0.097
23292	9	0.11	71	< 10	4	2	0.024
23293	8	0.11	116	< 10	4	1	0.029
23294	8	0.18	93	< 10	11	3	0.914
23295	13	0.13	94	< 10	10	5	3.879
23296	5	0.08	62	< 10	5	5	5.988
23297	4	0.03	88	< 10	1	7	10.44
23298	2	0.02	111	< 10	< 1	7	6.531
23299	2	0.02	101	< 10	< 1	8	7.768
23300	89	0.02	35	< 10	< 1	< 1	0.511
23301	2	0.04	13	< 10	9	16	4.784
23302	7	0.17	19	< 10	15	11	0.324
23303	9	0.13	14	< 10	5	12	0.204
23304	7	0.12	3	< 10	5	11	0.040
23305	13	0.13	49	< 10	8	10	0.032
23306	11	0.17	67	< 10	8	8	0.093
23307	9	0.13	100	< 10	7	7	0.061
23308	10	0.12	123	< 10	6	9	0.111
23309	8	0.06	35	< 10	7	11	6.042
23310	2	< 0.01	< 1	< 10	1	5	0.024
23311	13	0.09	38	< 10	8	10	0.125
23312	14	0.11	48	< 10	11	7	0.354

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23313	18	0.14	<1	<10	8	7	0.244
23314	12	0.09	16	<10	7	16	2.516
23315	10	0.08	4	<10	7	13	0.123
23316	15	0.08	8	<10	11	17	0.028
23317	16	0.18	62	<10	10	7	0.018
23318	15	0.08	2	<10	9	20	0.011
23319	16	0.08	3	<10	11	16	0.007
23320	88	0.02	34	<10	<1	1	0.480
23321	16	0.05	2	<10	11	23	0.008
23322	14	0.05	3	<10	11	16	0.006
23323	21	0.08	4	<10	11	19	0.007
23324	10	0.07	12	<10	13	16	2.737
23325	6	0.03	1	<10	12	14	0.027
23326	7	0.05	25	<10	1	1	0.092
23327	37	0.03	17	<10	<1	<1	0.176
23328	6	0.11	84	<10	7	2	0.257
23329	7	0.17	122	<10	9	3	0.330
23330	2	<0.01	<1	<10	1	6	0.019
23331	10	0.11	77	<10	7	2	0.312
23332	49	0.04	27	<10	1	<1	0.047
23333	20	0.02	26	<10	1	<1	0.090
23336	37	0.07	31	<10	1	<1	0.050
23337	83	0.02	16	<10	<1	<1	0.071
23338	108	0.05	36	<10	<1	<1	0.086
23339	107	0.07	40	<10	<1	<1	0.432
23340	71	0.02	35	<10	<1	<1	0.496
23341	114	0.07	39	<10	<1	<1	0.231
23342	120	0.04	30	<10	1	<1	0.057
23343	118	0.05	31	<10	1	<1	0.068
23344	49	0.14	60	<10	6	2	0.803
23345	33	0.15	82	<10	5	2	0.640
23346	59	0.17	77	<10	8	1	0.381
23347	78	0.21	147	<10	12	2	0.226
23348	50	0.28	90	<10	11	2	0.421
23349	88	0.15	102	<10	10	2	0.404
23350	2	<0.01	<1	<10	1	5	0.022

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.1	2.1	1180	742	13	37	848	811	0.31	337	247	<1	1390	0.71	8	6	23.7	0.02	0.14	0.06	0.034	88	1	21
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	< 0.5	6570	132	317	38	43	55	2.60	98	26	1	23	0.90	14	53	3.49	1.41	1.84	0.14	0.118	< 10	7	< 10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.0	5.1	87	1030	<2	17	760	568	3.38	12	1160	1	<10	0.80	9	25	2.12	0.57	0.58	0.28	0.055	27	5	< 10
GXR-2 Cert	17.0	4.10	78.0	1030	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	< 0.5	79	1040	< 2	25	98	127	6.97	234	816	< 1	< 10	0.15	13	84	5.48	0.97	0.45	0.14	0.032	< 10	23	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.608	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2900			2490																		
OREAS 13P Cert			2500			2280																		
23263 Ong	1.8	0.5	868	163	< 2	33	14	45	2.25	< 10	34	< 1	< 10	1.44	13	75	3.20	0.14	0.83	0.38	0.107	< 10	3	< 10
23263 Dup	1.6	0.7	825	161	< 2	31	13	46	2.28	< 10	35	< 1	< 10	1.45	13	74	3.19	0.14	0.84	0.39	0.109	< 10	3	< 10
23277 Ong	2.0	0.8	2290	242	< 2	917	21	335	2.71	< 10	18	< 1	< 10	0.21	65	92	9.83	1.15	2.64	0.13	0.028	< 10	8	< 10
23277 Dup	2.1	0.9	2340	246	< 2	903	21	339	2.75	< 10	19	< 1	< 10	0.21	66	96	9.86	1.17	2.68	0.13	0.029	< 10	8	< 10
23280 Ong	< 0.2	< 0.5	6	12	< 2	1	< 2	2	0.04	< 10	12	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.02	0.005	< 10	< 1	< 10
23280 Dup	< 0.2	< 0.5	7	9	< 2	1	< 2	2	0.04	< 10	11	< 1	< 10	0.04	< 1	3	0.06	0.01	0.02	0.02	0.005	< 10	< 1	< 10
23304 Ong	< 0.2	< 0.5	40	228	< 2	6	8	45	2.71	< 10	178	< 1	< 10	0.13	6	40	3.32	0.93	1.67	0.10	0.021	< 10	3	< 10
23304 Dup	< 0.2	< 0.5	33	235	< 2	5	8	45	2.77	< 10	184	< 1	< 10	0.14	6	40	3.41	0.96	1.70	0.10	0.022	< 10	4	< 10
23322 Ong	< 0.2	< 0.5	2	319	< 2	7	4	88	2.85	< 10	79	< 1	< 10	0.44	4	56	2.29	0.84	1.49	0.07	0.008	< 10	2	< 10
23322 Dup	< 0.2	< 0.5	2	314	< 2	7	5	86	2.34	< 10	77	< 1	< 10	0.44	4	57	2.24	0.62	1.45	0.06	0.006	< 10	2	< 10
23338 Ong	< 0.2	< 0.5	75	205	< 2	186	3	33	7.65	< 10	141	< 1	< 10	4.59	35	566	3.57	0.31	2.68	0.57	0.003	< 10	2	< 10
23338 Dup	< 0.2	< 0.5	68	187	< 2	175	2	30	7.10	< 10	126	< 1	< 10	4.24	30	505	3.24	0.28	2.63	0.54	0.004	< 10	2	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	10	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.02	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	142		71	123	23	12	0.186
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	56		82	11	12	9	1.882
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	88		47	< 10	11	11	0.036
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	30		175	< 10	7	10	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
23263 Orig	23	0.05	149	< 10	9	2	0.166
23263 Dup	23	0.05	147	< 10	9	2	0.171
23277 Orig	5	0.14	52	< 10	4	4	2.593
23277 Dup	5	0.14	52	< 10	4	4	2.348
23250 Orig	2	< 0.01	< 1	< 10	1	4	0.025
23260 Dup	2	< 0.01	< 1	< 10	1	5	0.023
23304 Orig	7	0.12	3	< 10	4	11	0.040
23304 Dup	7	0.12	3	< 10	5	11	0.041
23322 Orig	14	0.05	3	< 10	11	18	0.006
23322 Dup	14	0.05	3	< 10	11	17	0.006
23338 Orig	111	0.07	38	< 10	< 1	< 1	0.096
23338 Dup	104	0.06	35	< 10	< 1	< 1	0.077
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 17-Mar-08
Invoice No.: A08-1272
Invoice Date: 02-Apr-08
Your Reference: DOSSIER 21580

Expert Lab
127 Boul Industriel
Rouyn-Noranda Quebec J9X 6P2
Canada

ATTN: Evie Lafreniere

CERTIFICATE OF ANALYSIS

108 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-1272**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A08-1272

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
23573	1.4	< 0.5	3300	487	< 2	52	7	38	2.86	11	22	< 1	< 10	2.34	39	85	5.40	0.05	1.92	0.28	0.031	< 10	14	< 10	
23674	< 0.2	< 0.5	221	237	< 2	479	< 2	45	3.49	< 10	6	< 1	< 10	0.13	58	134	4.19	< 0.01	4.87	0.02	0.013	< 10	< 1	< 10	
23675	< 0.2	< 0.5	101	237	< 2	486	< 2	48	3.55	< 10	6	< 1	< 10	0.19	58	159	4.18	< 0.01	5.33	0.02	0.009	< 10	< 1	< 10	
23676	< 0.2	< 0.5	89	111	< 2	168	3	14	0.87	< 10	36	< 1	< 10	0.60	18	230	3.38	0.13	1.22	0.09	0.091	< 10	1	< 10	
23677	< 0.2	< 0.5	52	100	< 2	132	3	14	0.83	< 10	25	< 1	< 10	0.59	13	199	1.06	0.05	0.87	0.09	0.092	< 10	1	< 10	
23678	< 0.2	< 0.5	15	90	< 2	70	< 2	9	0.78	< 10	12	< 1	< 10	0.62	8	69	0.76	0.02	0.80	0.06	0.079	< 10	< 1	< 10	
23679	< 0.2	< 0.5	196	396	< 2	32	3	26	2.20	< 10	17	< 1	< 10	2.15	19	81	3.11	0.03	1.20	0.29	0.055	< 10	10	< 10	
23680	< 0.2	< 0.5	4	11	< 2	< 1	< 2	1	0.04	< 10	9	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.02	0.04	< 10	< 1	< 10	
23681	< 0.2	< 0.5	196	260	< 2	93	< 2	23	1.65	< 10	44	< 1	< 10	1.15	23	89	2.60	0.05	1.60	0.10	0.031	< 10	4	< 10	
23682	< 0.2	< 0.5	142	296	< 2	33	< 2	23	1.33	< 10	94	< 1	< 10	1.11	18	40	2.92	0.21	1.06	0.12	0.048	< 10	6	< 10	
23683	< 0.2	< 0.5	150	412	< 2	38	< 2	30	1.84	< 10	101	< 1	< 10	1.54	21	58	3.74	0.24	1.38	0.17	0.047	< 10	9	< 10	
23684	0.3	< 0.5	1020	212	< 2	54	2	16	2.07	< 10	35	< 1	< 10	1.64	45	43	4.16	0.06	1.07	0.27	0.110	< 10	6	< 10	
23685	0.4	2.2	745	355	< 2	26	199	526	1.62	< 10	28	< 1	< 10	1.49	42	51	4.67	0.03	1.38	0.19	0.108	< 10	10	< 10	
23686	< 0.2	< 0.5	216	308	< 2	48	< 2	41	2.05	< 10	19	< 1	< 10	1.88	35	62	3.19	0.02	1.18	0.32	0.046	< 10	8	< 10	
23687	< 0.2	< 0.5	78	130	< 2	47	5	15	5.77	< 10	12	< 1	< 10	4.17	8	149	1.09	0.03	5.77	1.10	0.74	0.003	< 10	3	< 10
23688	< 0.2	< 0.5	217	80	< 2	37	5	8	4.83	< 10	9	< 1	< 10	3.51	6	81	0.72	0.02	0.88	0.62	0.006	< 10	2	< 10	
23689	< 0.2	< 0.5	106	128	< 2	30	5	9	4.58	< 10	11	< 1	< 10	3.40	6	141	0.89	0.01	0.80	0.79	0.008	< 10	4	< 10	
23690	0.5	< 0.5	1480	295	< 2	1390	12	27	5.60	< 10	24	< 1	< 10	2.74	53	164	3.69	0.02	3.60	0.39	0.002	< 10	3	< 10	
23691	< 0.2	< 0.5	74	135	< 2	48	< 2	11	3.93	< 10	12	< 1	< 10	2.85	7	85	1.04	0.03	0.89	0.59	0.005	< 10	3	< 10	
23692	0.2	0.5	148	484	< 2	41	15	149	2.58	< 10	14	< 1	< 10	2.12	22	99	4.28	0.05	1.50	0.19	0.041	< 10	9	< 10	
23693	1.0	0.7	743	223	< 2	60	< 2	103	2.76	< 10	87	< 1	< 10	1.30	17	180	2.90	0.25	1.97	0.20	0.021	< 10	5	< 10	
23694	0.2	< 0.5	275	106	< 2	74	4	12	4.32	< 10	11	< 1	< 10	2.86	8	119	1.05	0.03	0.93	0.58	0.005	< 10	2	< 10	
23695	0.6	0.5	417	184	< 2	116	9	35	4.95	< 10	39	< 1	< 10	3.34	17	206	2.01	0.06	1.22	0.78	0.004	< 10	4	< 10	
23696	0.7	< 0.5	676	260	< 2	63	< 2	42	2.72	< 10	343	< 1	< 10	0.13	11	62	3.56	0.57	2.60	0.09	0.010	< 10	7	< 10	
23697	0.4	< 0.5	385	170	< 2	39	< 2	43	2.25	< 10	114	< 1	< 10	0.24	9	119	2.59	0.38	1.93	0.10	0.010	< 10	5	< 10	
23698	< 0.2	< 0.5	380	246	< 2	96	6	37	4.60	< 10	81	< 1	< 10	2.99	30	96	3.14	0.26	1.39	0.69	0.025	< 10	6	< 10	
23699	< 0.2	< 0.5	167	354	< 2	55	4	29	3.58	< 10	89	< 1	< 10	2.91	21	85	4.04	0.10	1.22	0.41	0.042	< 10	9	< 10	
23700	< 0.2	< 0.5	4	10	< 2	< 1	< 2	< 1	0.04	< 10	9	< 1	< 10	0.04	< 1	< 2	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10	
23601	1.7	0.9	984	254	< 2	358	4	44	2.00	< 10	18	< 1	< 10	1.77	31	179	2.30	0.04	1.34	0.33	0.011	< 10	6	< 10	
23602	1.5	< 0.5	917	152	< 2	269	8	28	2.55	< 10	42	< 1	< 10	1.79	22	95	1.65	0.11	0.85	0.42	0.010	< 10	3	< 10	
23603	0.6	< 0.5	277	144	< 2	96	9	20	2.65	< 10	19	< 1	< 10	2.04	11	86	1.19	0.05	0.79	0.46	0.011	< 10	3	< 10	
23604	0.9	0.8	842	232	< 2	411	12	42	2.84	< 10	13	< 1	< 10	2.21	33	133	2.82	0.03	1.11	0.48	0.010	< 10	5	< 10	
23605	1.3	0.5	1320	215	< 2	1190	19	51	3.58	< 10	15	< 1	< 10	2.71	73	119	5.57	0.03	1.11	0.56	0.006	< 10	4	< 10	
23606	0.7	0.6	485	150	< 2	239	17	32	2.65	< 10	11	< 1	< 10	1.90	21	76	1.62	0.02	0.79	0.39	0.006	< 10	3	< 10	
23607	2.1	1.6	1830	229	< 2	789	24	65	3.18	< 10	16	< 1	< 10	2.58	55	140	4.17	0.03	1.18	0.50	0.007	< 10	5	< 10	
23608	7.3	4.8	6820	181	< 2	2280	28	152	2.74	< 10	15	< 1	< 10	2.04	155	105	8.23	0.04	0.88	0.34	0.009	< 10	3	< 10	
23609	3.8	3.5	3950	236	< 2	1720	37	128	3.65	< 10	24	< 1	< 10	2.65	139	136	7.97	0.11	1.23	0.58	0.007	< 10	4	< 10	
23610	0.6	< 0.5	1530	303	< 2	1450	8	28	5.74	< 10	24	< 1	< 10	2.80	53	158	3.76	0.02	3.70	0.40	0.003	< 10	3	< 10	
23611	5.3	4.5	4150	230	< 2	1010	49	150	3.63	< 10	14	< 1	< 10	2.79	59	160	6.28	0.03	1.08	0.96	0.007	< 10	4	< 10	
23612	20.1	8.4	> 10000	167	< 2	6310	27	238	1.42	< 10	13	< 1	< 10	1.00	832	95	25.4	0.04	0.87	0.14	0.009	< 10	2	< 10	
23613	5.8	3.4	5490	276	< 2	2560	45	132	2.47	< 10	30	< 1	< 10	1.78	51	152	10.4	0.06	1.33	0.36	0.008	< 10	5	< 10	
23614	1.6	1.2	1380	254	< 2	706	45	88	3.49	< 10	39	< 1	< 10	2.58	48	182	4.06	0.11	1.40	0.54	0.007	< 10	5	< 10	
23615	2.8	1.9	2000	164	< 2	970	40	69	3.21	< 10	12	< 1	< 10	2.32	74	85	4.49	0.02	0.79	0.40	0.008	< 10	3	< 10	
23616	2.9	2.4	2320	212	< 2	1160	54	125	4.44	< 10	41	< 1	< 10	2.72	55	155	5.96	0.22	1.68	0.64	0.006	< 10	5	< 10	
23617	1.8	1.4	1240	162	< 2	729	43	80	3.22	< 10	40	< 1	< 10	1.95	53	152	3.94	0.10	1.27	0.38	0.006	< 10	2	< 10	
23618	3.6	2.4	3070	192	< 2	658	55	89	4.18	< 10	12	< 1	< 10	2.90	109	120	4.63	0.02	1.07	0.64	0.007	< 10	4	< 10	
23619	2.2	2.1	1680	176	< 2	812	69	57	4.32	< 10	12	< 1	< 10	2.94	45	81	3.88	0.01	0.83	0.64	0.007	< 10	3	< 10	
23620	< 0.2	< 0.5	7	9	< 2	< 2	< 2	< 1	0.05	< 10	9	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10	
23621	2.0	2.1	1380	169	< 2	418	56	53	4.62	< 10	13	< 1	< 10	3.18	30	114	2.58	0.02	0.84	0.71	0.008	< 10	4	< 10	
23622	4.4	3.3	3240	131	< 2	1280	64	90	3.66	< 10	12	< 1	< 10	2.46	87	70	5.31	0.01	0.68	0.55	0.009	< 10	2	< 10	
23623	2.0	1.0	1240	139	< 2	427	70	54	4.16	< 10	13	< 1	< 10	2.92	36	68	2.23	0.02	0.76	0.63	0.010	< 10	3	< 10	
23624	2.7	2.8	1770	147	< 2	526	93	118	3.60	< 10	58	< 1	< 10												

Activation Laboratories Ltd. Report: A08-1272

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
	ppm 0.2	ppm 0.5	ppm 1	ppm 2	ppm 2	ppm 1	ppm 2	ppm 1	% 0.01	ppm 10	ppm 1	ppm 1	ppm 10	% 0.01	ppm 1	ppm 2	% 0.01	% 0.01	% 0.01	% 0.01	% 0.001	ppm 10	ppm 1	ppm 10	
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
23625	4.5	4.5	2310	139	<2	1030	106	182	2.74	<10	50	<1	<10	1.68	51	130	4.99	0.29	1.20	0.38	0.008	<10	3	<10	
23626	21.6	21.4	>10000	143	<2	6160	72	648	1.33	<10	12	<1	<10	0.73	338	66	27.3	0.04	0.81	0.16	0.008	<10	2	<10	
23627	13.8	10.0	9490	155	<2	3420	116	370	2.02	<10	24	<1	<10	1.02	110	167	13.7	0.23	1.10	0.28	0.008	<10	5	<10	
23628	11.0	6.6	6960	148	<2	3300	151	241	2.07	<10	23	<1	<10	1.24	124	150	12.6	0.19	0.87	0.28	0.007	<10	3	<10	
23629	8.1	5.7	4520	169	<2	1300	180	210	3.17	<10	36	<1	<10	2.05	69	129	6.17	0.17	1.11	0.45	0.008	<10	3	<10	
23630	0.5	<0.5	1540	305	<2	1470	5	28	5.82	<10	24	<1	<10	2.78	53	158	3.85	0.02	3.77	0.41	0.003	<10	3	<10	
23631	10.1	7.5	6040	207	<2	1480	177	262	3.32	<10	24	<1	<10	2.45	84	169	7.20	0.08	1.18	0.49	0.007	<10	5	<10	
23632	9.9	7.5	6280	140	<2	1660	154	261	2.75	<10	32	<1	<10	1.80	100	141	7.03	0.15	0.91	0.43	0.008	<10	3	<10	
23633	7.6	5.7	4550	149	<2	1300	123	227	2.69	<10	19	<1	<10	1.99	72	101	5.64	0.04	0.79	0.44	0.009	<10	3	<10	
23634	7.3	5.5	4330	196	<2	1260	124	233	3.30	<10	22	<1	<10	2.44	74	136	6.03	0.05	1.08	0.62	0.009	<10	6	<10	
23635	4.0	1.9	2960	298	<2	1040	81	103	2.95	<10	10	<1	<10	2.15	70	302	5.67	0.02	1.20	0.17	0.014	<10	3	<10	
23636	3.8	2.5	2560	136	<2	960	88	152	3.47	<10	19	<1	<10	2.34	53	84	4.53	0.07	1.04	0.39	0.013	<10	2	26	
23637	1.9	1.0	1430	55	<2	634	66	49	2.09	<10	9	<1	<10	1.40	41	51	2.44	<0.01	0.32	0.33	0.010	<10	<1	<10	
23638	1.6	1.2	1160	71	<2	549	71	42	3.01	<10	13	<1	<10	2.06	40	77	2.13	0.02	0.46	0.48	0.010	<10	2	<10	
23639	2.6	1.1	1590	176	<2	622	85	81	4.15	<10	26	<1	<10	2.65	50	112	3.29	0.07	1.38	0.37	0.012	<10	2	<10	
23640	<0.2	<0.5	6	11	<2	1	<2	1	0.05	<10	12	<1	<10	0.04	<1	2	0.06	0.01	0.02	0.02	0.004	<10	<1	<10	
23641	23641	10.1	1310	44	<2	503	40	43	1.55	<10	25	<1	<10	0.77	51	175	1.87	0.20	0.71	0.27	0.011	<10	1	<10	
23642	3.4	5.8	1670	35	<2	560	37	44	0.97	<10	28	<1	<10	0.48	53	161	1.91	0.11	0.65	0.19	0.016	<10	1	<10	
23643	1.0	4.1	1050	52	<2	510	65	32	2.02	<10	32	<1	<10	1.07	48	128	2.35	0.09	0.84	0.40	0.012	<10	1	<10	
23644	1.3	7.5	1590	91	<2	781	45	91	2.03	<10	27	<1	<10	0.52	77	153	4.70	0.12	1.71	0.17	0.014	<10	3	<10	
23645	1.9	0.8	3350	111	<2	2700	21	102	1.94	<10	15	<1	<10	0.20	177	152	11.8	0.05	1.48	0.10	0.015	<10	2	<10	
23646	5.6	2.1	8170	91	<2	3230	17	154	1.36	<10	20	<1	<10	0.09	371	78	11.7	0.13	1.24	0.04	0.014	<10	2	<10	
23647	2.6	<0.5	3900	93	<2	4320	18	59	1.24	<10	18	<1	<10	0.09	359	120	17.6	0.09	1.01	0.04	0.014	<10	2	<10	
23648	0.5	1.3	611	86	<2	497	17	90	1.73	<10	31	<1	<10	0.17	46	51	3.42	0.13	1.73	0.33	0.06	0.018	<10	2	<10
23649	2.4	1.4	2340	115	<2	1570	22	142	1.75	<10	27	<1	<10	0.18	109	99	7.66	0.13	1.41	0.08	0.022	<10	2	<10	
23650	1.7	1.2	2440	129	<2	1880	21	161	1.85	<10	23	<1	<10	0.16	119	102	8.63	0.14	1.39	0.07	0.022	<10	2	<10	
23651	5.3	4.7	7090	172	<2	3930	23	293	1.73	<10	12	<1	<10	0.13	176	135	17.7	0.10	1.38	0.06	0.025	<10	2	<10	
23652	4.8	4.5	5660	176	<2	7770	21	236	1.40	<10	7	<1	<10	0.17	319	85	31.1	0.16	1.24	0.07	0.009	<10	2	<10	
23653	0.6	<0.5	1620	294	<2	1560	8	29	5.62	<10	23	<1	<10	2.67	50	167	4.02	0.02	3.72	0.42	0.003	<10	3	<10	
23654	1.7	0.8	1960	100	<2	>10000	34	81	0.82	<10	9	<1	<10	0.26	315	57	38.2	0.07	0.45	0.08	0.011	<10	<1	<10	
23655	11.9	9.7	>10000	314	<2	3240	97	493	2.28	<10	10	<1	<10	0.90	137	106	17.5	0.19	2.02	0.16	0.034	<10	2	<10	
23656	24.0	19.3	>10000	126	<2	5280	77	580	1.85	<10	7	<1	<10	0.78	974	85	28.1	0.09	0.89	0.11	0.016	<10	1	<10	
23657	12.3	12.7	>10000	151	<2	3760	112	498	2.60	<10	20	<1	<10	12	94	174	135	15.7	0.26	1.88	0.16	0.011	<10	3	<10
23658	8.5	6.5	>10000	106	<2	7360	48	318	1.15	<10	13	<1	<10	0.21	280	57	32.3	0.31	0.95	0.04	0.016	<10	2	<10	
23659	3.5	5.7	3940	190	<2	3680	61	417	2.66	<10	19	<1	<10	0.34	164	90	20.3	1.16	2.75	0.09	0.037	<10	8	<10	
23660	<0.2	<0.5	9	12	<2	4	<2	3	0.04	<10	11	<1	<10	0.04	<1	2	0.07	0.01	0.02	0.02	0.004	<10	<1	<10	
23661	5.2	2.9	8770	116	<2	8600	57	164	0.98	<10	12	<1	<10	0.42	272	81	29.8	0.09	0.61	0.04	0.013	<10	2	<10	
23662	41.2	27.5	>10000	187	<2	3140	69	719	1.38	<10	11	<1	<10	0.41	525	90	23.3	0.08	0.89	0.06	0.023	<10	2	<10	
23663	16.7	8.4	>10000	105	<2	6260	47	290	0.68	<10	11	<1	<10	0.37	1760	47	34.4	0.09	0.65	0.04	0.008	<10	1	<10	
23664	1.7	1.8	1580	159	<2	828	88	223	1.78	<10	41	<1	<10	0.33	70	48	5.94	0.25	1.78	0.59	0.06	0.015	<10	5	<10
23665	0.8	1.8	587	178	<2	96	48	170	1.77	<10	75	<1	<10	0.27	23	108	3.55	0.31	1.55	0.10	0.024	<10	3	<10	
23666	1.5	3.5	1210	433	<2	758	84	322	2.21	<10	28	<1	<10	1.75	36	46	8.61	0.11	2.26	0.05	0.041	<10	7	<10	
23667	5.0	<0.5	3590	1170	<2	2060	18	133	6.24	<10	7	<1	<10	0.72	52	330	18.9	0.02	7.47	0.02	0.015	<10	19	<10	
23668	6.1	5.9	6130	1070	<2	841	32	427	5.20	<10	8	<1	<10	1.21	48	507	13.0	0.03	6.23	0.02	0.053	<10	12	<10	
23669	8.8	18.8	8510	852	<2	4950	109	782	3.78	<10	9	<1	<10	1.27	52	214	21.0	0.04	3.85	0.03	0.032	<10	8	<10	
23670	0.6	<0.5	1600	313	<2	1510	22	32	6.09	<10	24	<1	<10	2.33	55	160	3.97	0.03	3.79	0.43	0.003	<10	3	<10	
23671	7.8	6.6	7530	782	<2	4370	66	405	3.65	<10	10	<1	<10	0.90	363	167	23.2	0.04	3.73	0.03	0.014	<10	9	<10	
23672	5.1	13.2	4520	801	<2	1750	81	948	3.01	<10	14	<1	<10	0.51	308	80	14.5	0.04	2.93	0.04	0.059	<10	9	<10	
23673	<0.2	<0.5	127	592	<2	53	3	56	2.64	<10	33	<1	<10	0.80	17	48	5.55	0.13	2.25	0.04	0.055	<10	8	<10	
23674	<0.2	2.9	250	637	<2	114	216	207	2.75	<10	49	<1	<10	1.16	15	67	4.14	0.25	2.76	0.04	0.041	<10	7	<10	
23675	<0.2	<0.5	14	546	<2	10	6	56	2.25	<10	52	<1	<10	0.89	5	80	2.69	0.20	2.17	0.05	0.023	<10	4	<10	
23676	<0.2	<0.5	18	405	<2	14	3	46	1.92	<10	53	<1	<10	0.70	2	106	1.88	0.23	1.77	0.04	0.006	<10	2	<10	

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23677	< 0.2	< 0.5	5	333	< 2	6	2	64	2.03	< 10	44	< 1	< 10	0.11	2	67	2.20	0.25	2.38	0.03	0.008	< 10	2	< 10
23678	0.8	1.2	1560	372	< 2	26	6	359	2.60	< 10	48	< 1	< 10	0.28	50	132	8.67	0.69	1.87	0.06	0.032	< 10	3	< 10
23679	< 0.2	< 0.5	156	482	3	23	4	170	2.20	< 10	65	< 1	< 10	0.22	8	119	3.43	0.38	1.62	0.06	0.011	< 10	2	< 10
23680	< 0.2	< 0.5	5	11	< 2	< 1	< 2	2	0.04	< 10	10	< 1	< 10	0.04	< 1	3	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23573	68	0.15	122	< 10	10	3	0.795
23574	3	0.02	20	< 10	< 1	1	0.317
23575	2	0.02	20	< 10	< 1	1	0.160
23576	9	0.07	29	< 10	3	13	0.195
23577	10	0.06	24	< 10	3	12	0.112
23578	12	0.02	8	< 10	2	8	0.021
23579	29	0.13	96	< 10	8	2	0.219
23580	1	< 0.01	< 1	< 10	< 1	3	0.017
23581	11	0.09	50	< 10	3	1	0.223
23582	11	0.16	77	< 10	6	2	0.207
23583	13	0.18	107	< 10	8	2	0.233
23584	25	0.06	69	< 10	6	2	1.354
23585	12	0.16	66	< 10	15	5	1.082
23586	19	0.10	74	< 10	7	2	0.499
23587	32	0.02	15	< 10	< 1	< 1	0.047
23588	82	0.01	10	< 10	< 1	< 1	0.049
23589	83	0.02	17	< 10	< 1	< 1	0.034
23590	69	0.02	32	< 10	< 1	1	0.493
23591	75	0.02	14	< 10	< 1	< 1	0.032
23592	25	0.21	107	< 10	8	3	0.148
23593	17	0.11	50	< 10	5	3	0.243
23594	78	0.02	15	< 10	< 1	< 1	0.067
23595	82	0.04	33	< 10	1	< 1	0.251
23596	5	0.09	26	< 10	5	3	0.099
23597	11	0.09	24	< 10	4	3	0.092
23598	62	0.10	65	< 10	4	2	0.547
23599	81	0.10	105	< 10	8	2	0.239
23600	1	< 0.01	< 1	< 10	< 1	3	0.017
23601	20	0.06	36	< 10	2	1	0.470
23602	35	0.03	20	< 10	< 1	< 1	0.408
23603	44	0.03	19	< 10	< 1	< 1	0.151
23604	42	0.03	29	< 10	1	2	0.909
23605	62	0.03	30	< 10	< 1	2	2.376
23606	41	0.02	17	< 10	< 1	< 1	0.492
23607	51	0.03	27	< 10	1	2	1.861
23608	43	0.02	24	< 10	< 1	3	4.165
23609	81	0.03	26	< 10	< 1	3	3.141
23610	71	0.02	33	< 10	< 1	1	0.505
23611	57	0.02	27	< 10	< 1	2	2.304
23612	13	0.04	32	< 10	< 1	7	10.41
23613	23	0.04	34	< 10	1	3	4.743
23614	51	0.04	29	< 10	1	2	1.429
23615	53	0.02	20	< 10	< 1	2	2.143
23616	59	0.05	36	< 10	1	2	2.274
23617	43	0.04	24	< 10	< 1	1	1.563
23618	65	0.03	26	< 10	< 1	2	2.136
23619	69	0.02	22	< 10	< 1	1	1.611
23620	2	< 0.01	< 1	< 10	< 1	3	0.022
23621	71	0.02	23	< 10	< 1	1	0.921
23622	60	0.01	15	< 10	< 1	2	2.653
23623	70	0.02	18	< 10	< 1	< 1	0.867
23624	53	0.05	26	< 10	< 1	1	1.094

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23525	37	0.05	32	< 10	< 1	2	2.078
23526	14	0.04	36	< 10	< 1	6	6.534
23527	22	0.05	39	< 10	< 1	4	5.938
23528	25	0.04	36	< 10	< 1	4	5.152
23529	46	0.04	28	< 10	< 1	2	2.587
23530	72	0.02	34	< 10	< 1	1	0.508
23531	50	0.03	34	< 10	1	2	2.759
23532	42	0.04	27	< 10	< 1	2	3.277
23533	46	0.02	19	< 10	< 1	2	2.696
23534	52	0.03	27	< 10	1	2	2.681
23535	39	0.05	38	< 10	2	2	2.505
23536	42	0.03	20	< 10	< 1	2	2.041
23537	30	0.01	10	< 10	< 1	1	1.281
23538	43	0.03	17	< 10	< 1	< 1	1.038
23539	45	0.05	38	< 10	< 1	1	1.201
23540	2	< 0.01	< 1	< 10	1	4	0.020
23541	16	0.04	53	< 10	< 1	1	0.841
23542	9	0.02	46	< 10	< 1	< 1	0.904
23543	21	0.03	38	< 10	< 1	< 1	1.101
23544	10	0.04	63	< 10	< 1	1	1.914
23545	6	0.03	77	< 10	1	3	3.483
23546	4	0.03	82	< 10	< 1	2	3.757
23547	3	0.03	66	< 10	1	4	4.623
23548	5	0.04	53	< 10	1	< 1	1.236
23549	5	0.05	76	< 10	2	2	3.340
23550	6	0.05	79	< 10	2	2	3.529
23551	5	0.05	90	< 10	2	4	7.255
23552	10	0.03	64	< 10	1	6	6.388
23553	67	0.02	33	< 10	< 1	1	0.517
23554	5	0.02	37	< 10	1	7	5.687
23555	7	0.04	67	< 10	4	4	5.902
23556	12	0.05	78	< 10	2	5	8.515
23557	16	0.04	56	< 10	1	6	6.488
23558	5	0.07	167	< 10	2	9	8.801
23559	6	0.15	69	< 10	5	6	5.873
23560	2	< 0.01	< 1	< 10	1	4	0.023
23561	8	0.05	113	< 10	2	9	9.369
23562	8	0.04	63	< 10	2	6	9.794
23563	3	0.04	41	< 10	1	9	10.41
23564	8	0.08	39	< 10	5	2	1.937
23565	9	0.08	6	< 10	6	3	0.390
23566	8	0.09	43	< 10	11	3	1.953
23567	3	0.05	130	< 10	6	5	3.001
23568	3	0.03	93	< 10	4	4	1.522
23569	3	0.02	86	< 10	3	6	6.430
23570	73	0.02	34	< 10	< 1	1	0.533
23571	3	0.04	129	< 10	4	6	6.646
23572	4	0.15	76	< 10	15	9	6.126
23573	13	0.15	46	< 10	22	8	0.274
23574	11	0.15	37	< 10	20	11	0.338
23575	10	0.12	17	< 10	23	13	0.020
23576	7	0.06	2	< 10	26	19	0.027

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23677	4	0.04	2	< 10	15	16	0.013
23678	7	0.08	22	< 10	7	8	2.307
23679	9	0.05	14	< 10	10	8	0.069
23680	1	< 0.01	< 1	< 10	< 1	3	0.018

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GXR-1 Meas	26.2	2.9	1180	748	14	33	988	840	0.34	364	404	<1	1470	0.74	9	6	25.0	0.03	0.15	0.11	0.039	78	1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	< 0.5	6290	139	323	40	41	59	2.61	104	31	1	27	0.94	14	56	3.58	1.52	1.87	0.13	0.119	< 10	7	< 10
GXR-4 Cert	4.00	0.660	6020	155	310	42.0	62.0	73.0	7.20	98.0	1640	1.60	16.0	1.01	14.6	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	17.5	5.2	79	1000	<2	17	725	543	3.27	14	1150	<1	<10	0.78	9	26	2.11	0.98	0.57	0.35	0.052	30	5	< 10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	26.0	2240	1.70	0.690	0.930	8.50	36.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.2	< 0.5	75	1050	< 2	26	92	124	7.02	232	904	< 1	< 10	0.16	14	82	6.51	1.03	0.47	0.21	0.032	< 10	23	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas							2970																	
OREAS 13P Cert							2180																	
23585 Ong	0.4	2.4	751	376	< 2	27	157	531	1.61	< 10	28	< 1	< 10	1.49	42	56	4.67	0.03	1.35	0.19	0.108	< 10	9	< 10
23585 Dup	0.4	2.0	736	334	< 2	26	161	521	1.63	< 10	28	< 1	< 10	1.50	42	46	4.67	0.03	1.35	0.19	0.109	< 10	10	< 10
23669 Ong	< 0.2	< 0.5	161	349	< 2	63	3	28	3.60	< 10	88	< 1	< 10	2.87	21	84	3.96	0.10	1.21	0.41	0.041	< 10	9	< 10
23669 Dup	< 0.2	< 0.5	174	360	< 2	66	6	29	3.62	< 10	90	< 1	< 10	2.95	21	86	4.10	0.10	1.24	0.41	0.043	< 10	9	< 10
23612 Ong	19.7	8.2	> 10000	166	< 2	62.10	27	233	1.40	< 10	12	< 1	< 10	0.99	628	93	25.7	0.04	0.68	0.13	0.009	< 10	2	< 10
23612 Dup	20.5	8.7	> 10000	169	< 2	64.10	28	239	1.44	< 10	13	< 1	< 10	1.00	635	94	27.1	0.04	0.68	0.14	0.008	< 10	2	< 10
23626 Ong	21.6	21.4	> 10000	144	< 2	62.70	71	654	1.33	< 10	10	< 1	< 10	0.73	339	55	23.5	0.04	0.62	0.16	0.008	< 10	2	< 10
23626 Dup	21.6	21.3	> 10000	142	< 2	60.40	73	642	1.33	< 10	14	< 1	< 10	0.74	337	54	21.1	0.04	0.81	0.16	0.007	< 10	2	< 10
23649 Ong	2.3	1.4	2230	115	< 2	1560	20	140	1.88	< 10	27	< 1	< 10	0.18	107	99	7.62	0.14	1.42	0.08	0.022	< 10	2	< 10
23649 Dup	2.5	1.4	2460	116	< 2	1580	23	144	1.83	< 10	28	< 1	< 10	0.18	110	99	7.69	0.13	1.40	0.08	0.022	< 10	2	< 10
23663 Ong	16.8	8.2	> 10000	105	< 2	6150	48	288	0.68	< 10	12	< 1	< 10	0.37	1770	47	33.5	0.09	0.65	0.04	0.008	< 10	1	< 10
23663 Dup	16.6	8.6	> 10000	104	< 2	6370	45	291	0.68	< 10	10	< 1	< 10	0.37	1740	48	35.2	0.09	0.65	0.04	0.009	< 10	1	< 10
23679 Ong	< 0.2	< 0.5	18	417	< 2	16	3	48	1.66	< 10	64	< 1	< 10	0.71	2	108	2.02	0.23	1.80	0.04	0.006	< 10	2	< 10
23679 Dup	< 0.2	< 0.5	18	394	< 2	14	4	45	1.65	< 10	51	< 1	< 10	0.69	2	103	1.94	0.22	1.74	0.04	0.006	< 10	2	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	179		76	137	23	14	0.206
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	73		63	14	12	10	1.847
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77
GXR-2 Meas	67		47	< 10	11	10	0.036
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	32		176	< 10	7	11	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
23585 Orig	12	0.16	56	< 10	15	5	1.075
23585 Dup	12	0.16	56	< 10	15	5	1.088
23669 Orig	60	0.10	104	< 10	6	2	0.734
23669 Dup	62	0.10	106	< 10	6	2	0.243
23612 Orig	13	0.04	32	< 10	< 1	7	10.32
23612 Dup	13	0.04	32	< 10	< 1	7	10.50
23626 Orig	14	0.04	36	< 10	< 1	7	9.635
23626 Dup	14	0.04	36	< 10	< 1	6	7.433
23649 Orig	5	0.05	77	< 10	2	2	3.489
23649 Dup	5	0.05	76	< 10	2	2	3.191
23663 Orig	4	0.04	41	< 10	1	9	9.948
23663 Dup	3	0.04	42	< 10	1	9	10.88
23676 Orig	8	0.05	2	< 10	26	20	0.028
23676 Dup	7	0.05	1	< 10	26	19	0.027
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 17-Mar-08
Invoice No.: A08-1272 Additional
Invoice Date: 02-Dec-08
Your Reference: DOSSIER 21580

Expert Lab
127 Boul Industriel
Rouyn-Noranda Quebec J9X 6P2
Canada

ATTN: Evie Lafreniere

CERTIFICATE OF ANALYSIS

108 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-1272 Additiona**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Analyte Symbol	Cu	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FUS- Na2O2	AR-ICP	AR-ICP
23645		4160	6170
23646		8970	4150
23647		4040	4930
23648		697	647
23649		2260	1620
23650		2310	2070
23651		6360	4010
23652		4790	7200
23653		1610	1640
23654		1600	9380
23655	1.61	> 10000	3570

Quality Control

Analyte Symbol	Cu	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FJS- Ni2O2	AR-ICP	AR-ICP

GXR-1 Meas		1030	26
GXR-1 Cert		1110	41.0
UNG-1 Meas	0.012		
UNG-1 Cert	0.00990		
GXR-4 Meas		6530	40
GXR-4 Cert		6520	42.0
GXR-5 Meas		85	16
GXR-2 Cert		76.0	21.0
CHR-PT+ Meas	0.049		
CHR-PT+ Cert	0.038		
CZN-3 Meas	0.711		
CZN-3 Cert	0.665		
GXR-6 Meas		74	20
GXR-6 Cert		66.0	27.0
CCU-1C Meas	25.6		
CCU-1C Cert	25.6		
OREAS 13P Meas		2420	2360
OREAS 13P Cert		2500	2260
DTS-2b Meas	< 0.005		
DTS-2b Cert	0.000300		
Method Blank Method Blank		< 1	< 1
Method Blank Method Blank		< 1	< 1
Method Blank Method Blank		< 1	< 1
Method Blank Method Blank	< 0.005		
Method Blank Method Blank	< 0.005		



Date Submitted: 17-Mar-08
Invoice No.: A08-1273
Invoice Date: 09-Apr-08
Your Reference: DOSSIER 21581

Expert Lab
127 Boul Industriel
Rouyn-Noranda Quebec J9X 6P2
Canada

ATTN: Evie Lafreniere

CERTIFICATE OF ANALYSIS

110 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-1273**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

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+1.888.228.5227 FAX +1.905.648.9613
E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Activation Laboratories Ltd. Report: A08-1273

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
25584	0.2	< 0.5	211	109	< 2	115	3	15	5.08	< 10	15	< 1	< 10	4.02	17	102	1.28	0.02	0.84	0.66	0.016	< 10	4	< 10	
25685	< 0.2	< 0.5	29	74	< 2	57	< 2	12	3.69	< 10	43	< 1	< 10	2.07	20	197	1.56	0.38	2.08	0.26	0.029	< 10	5	< 10	
25685	< 0.2	< 0.5	136	83	< 2	84	< 2	12	5.65	< 10	54	< 1	< 10	3.54	10	234	1.79	0.45	1.70	0.67	0.008	< 10	4	< 10	
25687	< 0.2	< 0.5	169	90	< 2	89	< 2	8	4.32	< 10	24	< 1	< 10	3.46	17	67	1.14	0.02	0.66	0.46	0.017	< 10	2	< 10	
25688	< 0.2	< 0.5	73	84	< 2	38	< 2	7	5.69	< 10	54	< 1	< 10	4.20	10	163	0.91	0.09	0.79	0.67	0.006	< 10	2	< 10	
25689	< 0.2	< 0.5	96	149	< 2	34	< 2	5	3.37	< 10	15	< 1	< 10	2.60	6	76	0.71	0.01	0.37	0.51	0.019	< 10	1	< 10	
25690	< 0.2	< 0.5	4	11	< 2	< 1	< 2	1	0.04	< 10	11	< 1	< 10	0.04	< 1	3	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10	
25691	< 0.2	< 0.5	26	390	< 2	103	< 2	17	3.71	< 10	12	< 1	< 10	2.35	20	188	2.97	0.06	3.13	0.13	0.009	< 10	3	< 10	
25692	< 0.2	< 0.5	79	164	< 2	63	< 2	12	3.36	< 10	11	< 1	< 10	2.25	11	155	1.41	0.03	1.55	0.19	0.012	< 10	2	< 10	
25693	< 0.2	< 0.5	6	231	< 2	56	4	16	5.43	< 10	18	< 1	< 10	3.38	10	119	2.13	0.05	1.90	0.69	0.006	< 10	3	< 10	
25694	< 0.2	< 0.5	29	71	< 2	25	< 2	8	4.44	< 10	27	< 1	< 10	3.10	4	52	0.84	0.02	0.48	0.74	0.017	< 10	2	< 10	
25695	< 0.2	< 0.5	4	115	< 2	89	< 2	16	5.65	< 10	94	< 1	< 10	3.65	14	148	1.64	0.31	1.88	0.44	0.034	< 10	2	< 10	
25696	< 0.2	< 0.5	6	117	< 2	180	< 2	27	2.87	< 10	7	< 1	< 10	0.51	29	113	2.44	< 0.01	3.91	0.05	0.078	< 10	< 1	< 10	
25697	< 0.2	< 0.5	< 1	234	< 2	342	< 2	43	3.85	< 10	10	< 1	< 10	0.56	57	175	4.21	0.01	5.92	0.06	0.008	< 10	1	< 10	
25698	< 0.2	< 0.5	7	282	< 2	334	< 2	36	4.48	< 10	31	< 1	< 10	1.36	35	76	3.71	0.03	4.97	0.08	0.005	< 10	< 1	< 10	
25699	< 0.2	< 0.5	42	212	< 2	261	< 2	29	4.25	< 10	33	< 1	< 10	1.78	28	100	2.83	0.02	3.75	0.12	0.006	< 10	1	< 10	
25600	0.7	< 0.5	1570	292	< 2	1480	8	28	6.12	< 10	24	< 1	< 10	2.74	45	155	3.83	0.02	3.60	0.46	0.003	< 10	3	< 10	
25601	< 0.2	< 0.5	33	177	< 2	322	< 2	32	3.45	< 10	10	< 1	< 10	0.84	31	142	3.17	0.01	4.20	0.09	0.013	< 10	2	< 10	
25602	1.0	< 0.5	502	44	< 2	112	8	11	7.38	< 10	10	< 1	< 10	5.20	8	54	0.56	< 0.01	0.40	0.70	0.004	< 10	< 1	< 10	
25603	0.2	< 0.5	86	38	< 2	66	8	6	4.08	< 10	9	< 1	< 10	2.96	5	56	0.42	< 0.01	0.40	0.51	0.007	< 10	< 1	< 10	
25604	0.6	< 0.5	338	43	< 2	368	18	9	8.11	< 10	14	< 1	< 10	6.50	22	119	0.98	0.02	0.57	0.52	0.003	< 10	1	< 10	
25605	0.4	< 0.5	204	58	< 2	197	13	8	5.70	< 10	8	< 1	< 10	4.34	12	55	0.52	< 0.01	0.78	0.42	0.003	< 10	< 1	< 10	
25606	1.8	< 0.5	962	52	< 2	940	15	15	5.95	< 10	9	< 1	< 10	4.25	52	55	1.69	0.01	0.54	0.57	0.005	< 10	1	< 10	
25607	2.2	1.2	1130	116	< 2	930	18	23	5.91	< 10	14	< 1	< 10	4.42	40	93	2.28	0.03	1.30	0.35	0.006	< 10	< 1	< 10	
25608	3.0	1.6	1580	117	< 2	1580	16	25	6.21	< 10	22	< 1	< 10	4.05	55	192	3.18	0.07	1.60	0.36	0.004	< 10	2	< 10	
25609	1.9	0.8	977	139	< 2	1080	13	25	5.31	< 10	34	< 1	< 10	3.25	49	240	2.80	0.13	2.13	0.30	0.006	< 10	2	< 10	
25610	< 0.2	< 0.5	3	10	< 2	< 1	< 2	1	0.03	< 10	9	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.02	0.004	< 10	< 1	< 10	
25611	< 0.2	< 0.5	104	68	< 2	309	10	9	2.98	< 10	8	< 1	< 10	1.87	13	57	0.70	< 0.01	0.50	0.25	0.005	< 10	< 1	< 10	
25612	2.1	0.9	981	47	< 2	623	8	11	1.18	< 10	8	< 1	< 10	0.78	29	46	0.97	< 0.01	0.43	0.19	0.004	< 10	1	< 10	
25613	4.6	3.4	1010	142	< 2	295	40	27	5.35	< 10	13	< 1	< 10	3.56	30	47	1.95	0.01	1.12	0.60	0.003	< 10	2	< 10	
25614	20.0	9.9	2870	161	< 2	324	73	49	4.41	< 10	9	< 1	< 10	2.95	36	38	2.13	< 0.01	0.88	0.40	0.003	< 10	2	< 10	
25615	39.0	15.4	5930	202	< 2	497	66	70	4.22	< 10	10	< 1	< 10	2.80	57	38	3.22	< 0.01	1.18	0.37	0.005	< 10	2	< 10	
25616	14.2	13.4	2880	91	< 2	461	90	53	7.22	< 10	13	< 1	< 10	4.63	55	43	3.24	0.02	0.78	0.60	0.003	< 10	1	< 10	
25617	51.6	40.3	6400	147	< 2	316	168	117	6.11	< 10	10	< 1	< 10	27	3.86	55	38	3.69	0.01	1.00	0.52	0.005	< 10	2	< 10
25618	35.3	25.3	4590	173	< 2	282	152	101	4.55	< 10	10	< 1	< 10	19	2.88	47	35	3.15	< 0.01	0.58	0.47	0.006	< 10	2	< 10
25619	31.5	16.6	4690	214	< 2	444	115	84	4.04	< 10	9	< 1	< 10	2.36	58	42	4.79	< 0.01	1.35	0.38	0.004	< 10	3	< 10	
25620	0.7	< 0.5	1560	294	< 2	1430	3	28	6.24	< 10	24	< 1	< 10	2.77	46	168	3.73	0.02	3.68	0.47	0.003	< 10	3	< 10	
25621	29.9	22.3	3220	248	< 2	250	139	135	3.69	< 10	9	< 1	< 10	26	2.39	39	37	3.12	0.01	1.38	0.27	0.003	< 10	4	< 10
25622	33.0	35.7	4840	178	< 2	147	120	133	4.40	< 10	9	< 1	< 10	2.88	25	37	2.14	0.01	0.88	0.46	0.003	< 10	3	< 10	
25623	3.8	3.2	798	125	< 2	198	28	61	4.35	< 10	34	< 1	< 10	2.12	30	63	2.70	0.19	2.38	0.40	0.006	< 10	4	< 10	
25624	1.2	< 0.5	579	70	< 2	558	26	28	3.24	< 10	11	< 1	< 10	2.12	75	40	3.55	0.01	0.54	0.60	0.003	< 10	1	< 10	
25625	0.3	1.4	77	138	< 2	106	23	59	2.81	< 10	11	< 1	< 10	1.63	18	71	1.54	0.01	1.15	0.48	0.001	< 10	2	< 10	
25626	0.4	< 0.5	83	89	< 2	107	21	21	2.67	< 10	19	< 1	< 10	1.58	18	101	1.29	0.06	0.93	0.48	0.003	< 10	2	< 10	
25627	< 0.2	< 0.5	26	144	< 2	56	27	30	3.45	< 10	12	< 1	< 10	2.03	10	99	1.68	0.03	1.40	0.57	0.001	< 10	2	< 10	
25628	2.4	0.9	1470	210	< 2	742	6	68	3.80	< 10	50	< 1	< 10	0.52	88	83	6.09	0.32	3.83	0.19	0.005	< 10	8	< 10	
25629	1.5	0.5	753	182	< 2	377	15	59	3.67	< 10	23	< 1	< 10	0.90	43	54	4.88	0.17	3.13	0.14	0.004	< 10	6	< 10	
25630	< 0.2	< 0.5	4	10	< 2	< 1	< 2	1	0.04	< 10	9	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10	
25631	5.2	3.9	989	188	< 2	314	62	40	5.84	< 10	29	< 1	< 10	3.98	33	57	2.68	0.16	1.88	0.44	0.002	< 10	8	< 10	
25632	3.7	2.8	1530	167	< 2	406	18	49	4.10	< 10	11	< 1	< 10	1.43	54	54	5.95	0.05	2.65	0.14	0.003	< 10	5	< 10	
25633	3.8	1.7	1850	113	< 2	1350	25	38	3.63	< 10	10	< 1	< 10	1.49	219	73	7.82	0.03	1.60	0.14	0.008	< 10	3	< 10	
25634	0.8	0.7	438	57	< 2	213	67	18	6.09	< 10	13	< 1	< 10	4.17	31	47	2.05	0.05	1.03	0.26	0.006	< 10	2	< 10	
25635	1.4	0.8	817	95	< 2	780	10	18	2.17	< 10	9	< 1	< 10	0.84	53	63	4.14	0.02	1.0						

Activation Laboratories Ltd. Report: A08-1273

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25535	< 0.2	< 0.5	10	152	< 2	43	4	25	3.09	< 10	23	< 1	< 10	0.34	11	96	2.10	0.17	2.53	0.06	0.006	< 10	5	< 10
25637	< 0.2	< 0.5	10	147	< 2	46	< 2	29	3.03	< 10	27	< 1	< 10	0.08	10	121	2.06	0.19	2.60	0.06	0.008	< 10	5	< 10
25638	0.4	0.0	172	109	< 2	22	4	26	2.00	< 10	37	< 1	< 10	0.10	8	86	1.72	0.23	1.85	0.04	0.004	< 10	5	< 10
25639	< 0.2	< 0.5	33	128	< 2	13	4	27	2.12	< 10	29	< 1	< 10	0.08	4	80	1.27	0.09	1.66	0.04	0.009	< 10	2	< 10
25640	0.7	< 0.5	1540	310	< 2	1560	11	29	5.77	< 10	24	< 1	< 10	2.91	49	166	3.98	0.02	3.79	0.43	0.003	< 10	3	< 10
25641	3.4	1.7	454	142	< 2	41	5	55	3.41	< 10	13	< 1	< 10	0.07	12	137	2.80	0.80	3.04	0.07	0.010	< 10	8	< 10
25642	34.1	9.7	4080	100	2	52	16	69	2.06	< 10	19	< 1	85	0.09	14	71	1.78	0.06	1.55	0.04	0.026	< 10	3	< 10
25643	2.7	0.9	829	167	< 2	37	5	45	2.34	< 10	64	< 1	< 10	0.05	9	46	2.09	0.38	2.22	0.06	0.004	< 10	5	< 10
25644	0.4	< 0.5	37	251	< 2	13	11	126	3.26	< 10	142	< 1	< 10	0.08	5	90	3.18	1.12	2.98	0.08	0.002	< 10	5	< 10
25645	17.6	8.8	3220	131	< 2	80	60	194	4.04	< 10	66	< 1	< 10	1.49	9	33	2.49	0.66	2.66	0.27	0.008	< 10	3	< 10
25646	21.8	16.0	5150	213	< 2	123	179	542	4.01	< 10	72	< 1	< 10	1.41	14	72	3.76	0.55	2.79	0.16	0.007	< 10	3	< 10
25647	11.4	29.8	2780	500	< 2	69	403	2220	3.73	< 10	131	< 1	< 10	1.76	15	85	3.75	0.63	1.75	0.22	0.014	< 10	6	< 10
25648	12.8	1230	3480	432	4	30	137	>10000	3.48	< 10	25	< 1	< 10	1.62	43	77	5.16	0.93	1.90	0.21	0.017	< 10	9	< 10
25649	74.7	49.1	6650	234	< 2	264	907	1700	3.97	< 10	25	< 1	116	2.55	41	123	5.50	0.53	1.62	0.17	0.022	< 10	6	< 10
25650	< 0.2	< 0.5	17	9	< 2	< 1	2	7	0.05	< 10	11	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.002	< 10	< 1	< 10	
25651	18.2	9.8	2290	329	< 2	63	163	335	4.67	< 10	13	< 1	< 10	3.90	17	113	3.01	0.04	1.22	0.26	0.039	< 10	9	< 10
25652	29.8	7.9	4170	339	< 2	76	103	171	2.22	< 10	8	< 1	< 10	1.69	24	85	3.12	0.02	1.23	0.10	0.044	< 10	4	< 10
25653	10.6	2.8	1810	314	< 2	46	64	81	2.61	< 10	8	< 1	< 10	2.34	15	83	2.41	0.03	1.10	0.14	0.032	< 10	5	< 10
25654	1.2	0.5	281	180	< 2	24	34	53	3.75	< 10	45	< 1	< 10	2.53	10	85	2.49	0.23	1.20	0.31	0.049	< 10	5	< 10
25655	1.0	< 0.5	266	130	< 2	34	23	67	3.61	< 10	115	< 1	< 10	2.05	13	93	3.67	0.70	1.57	0.50	0.118	< 10	7	< 10
25656	12.3	8.6	3920	186	< 2	858	37	205	3.91	< 10	19	< 1	< 10	1.34	50	67	9.08	1.08	2.45	0.36	0.034	< 10	7	< 10
25657	15.5	10.3	3280	160	< 2	196	52	178	4.24	< 10	112	< 1	< 10	1.23	33	79	4.28	0.71	2.46	0.33	0.035	< 10	7	< 10
25658	6.0	3.6	1060	387	< 2	334	45	155	5.26	< 10	114	< 1	< 10	0.82	34	55	7.72	0.73	4.72	0.17	0.016	< 10	11	< 10
25659	9.8	7.1	4640	228	< 2	911	90	239	3.11	< 10	13	< 1	< 10	1.03	337	47	9.66	0.74	2.44	0.16	0.033	< 10	5	< 10
25660	0.6	< 0.5	1590	309	< 2	1520	5	30	6.10	< 10	24	< 1	< 10	2.89	49	165	3.90	0.02	3.75	0.46	0.003	< 10	3	< 10
25661	1.0	< 0.5	491	300	< 2	44	11	79	3.17	< 10	302	< 1	< 10	0.58	29	82	5.77	1.01	2.35	0.12	0.032	< 10	11	< 10
25662	11.0	1.4	494	330	< 2	39	68	42	3.28	< 10	13	< 1	88	2.85	15	103	2.84	0.04	1.18	0.19	0.031	< 10	6	< 10
25663	26.8	3.0	1560	234	< 2	37	185	51	3.65	< 10	15	< 1	96	2.76	13	75	2.33	0.04	0.68	0.20	0.031	< 10	4	< 10
25664	30.3	1.1	1680	391	< 2	30	76	78	3.35	< 10	190	< 1	88	0.89	13	100	5.17	0.86	2.19	0.12	0.032	< 10	8	< 10
25665	15.4	42.4	5340	335	< 2	1060	49	818	2.69	< 10	20	< 1	17	0.90	54	43	10.1	0.79	2.58	0.07	0.042	< 10	6	11
25666	3.3	11.1	1770	329	< 2	777	16	274	2.67	< 10	65	< 1	< 10	0.46	12	73	5.04	0.95	2.19	0.06	0.033	< 10	5	< 10
25667	< 0.2	< 0.5	32	281	< 2	14	3	58	2.49	< 10	101	< 1	< 10	0.53	7	46	2.87	0.63	1.79	0.10	0.028	< 10	3	< 10
25668	7.5	5.5	4740	357	< 2	600	57	278	2.65	< 10	18	< 1	< 10	0.77	55	100	7.97	0.75	2.25	0.09	0.048	< 10	9	< 10
25669	61.1	91.9	>10000	179	< 2	1480	25	2180	1.57	< 10	9	< 1	< 10	0.37	160	30	16.3	0.48	1.36	0.06	0.057	< 10	6	15
25670	< 0.2	< 0.5	23	9	< 2	2	< 2	5	0.03	< 10	8	< 1	< 10	0.04	< 1	2	0.07	0.01	0.02	0.01	0.004	< 10	< 1	< 10
25671	19.9	41.1	>10000	265	< 2	2250	35	1070	2.06	< 10	11	< 1	< 10	0.43	127	48	16.5	0.61	1.63	0.10	0.046	< 10	7	< 10
25672	0.5	1.0	321	451	< 2	60	14	137	3.22	< 10	164	< 1	< 10	0.67	17	71	4.98	0.85	2.63	0.11	0.049	< 10	11	< 10
25673	2.7	4.5	1150	275	< 2	242	27	395	2.11	< 10	19	< 1	< 10	0.55	133	69	9.23	0.50	1.70	0.07	0.103	< 10	7	< 10
25674	8.1	9.5	4920	231	< 2	886	18	300	1.67	< 10	17	< 1	< 10	0.76	123	66	9.02	0.37	1.44	0.08	0.101	< 10	6	< 10
25675	0.3	1.8	267	486	< 2	121	38	244	3.22	< 10	111	< 1	< 10	1.01	17	87	5.85	1.03	2.88	0.16	0.086	< 10	13	< 10
25676	0.4	2.7	347	533	16	50	63	281	3.16	< 10	62	< 1	< 10	1.15	27	128	5.29	0.49	2.95	0.06	0.030	< 10	11	< 10
25677	< 0.2	1.0	26	538	< 2	39	4	241	3.09	< 10	105	< 1	< 10	0.91	15	106	4.95	0.61	2.92	0.04	0.033	< 10	9	< 10
25678	< 0.2	< 0.5	104	403	< 2	16	4	124	2.32	< 10	125	< 1	< 10	0.52	8	62	3.41	0.52	2.02	0.06	0.042	< 10	7	< 10
25679	0.6	2.3	463	502	< 2	77	33	179	2.82	< 10	42	< 1	< 10	1.58	20	101	5.00	0.28	2.50	0.06	0.040	< 10	8	< 10
25680	0.8	< 0.5	1510	304	< 2	1460	39	29	5.75	< 10	23	< 1	< 10	2.83	47	161	3.86	0.02	3.60	0.43	0.003	< 10	3	< 10
25681	< 0.2	< 0.5	30	333	< 2	12	5	37	2.01	< 10	89	< 1	< 10	0.31	7	40	3.42	0.30	1.58	0.03	0.029	< 10	3	< 10
25682	14.0	3.8	>10000	222	< 2	7770	19	314	0.72	< 10	7	< 1	< 10	0.21	292	33	38.4	0.15	0.73	0.02	0.013	< 10	1	16
25683	6.7	4.0	5580	282	< 2	4290	15	533	1.25	11	5	< 1	< 10	0.31	1190	59	32.4	0.12	1.61	0.02	0.021	< 10	3	20
25684	8.6	18.7	8200	404	< 2	654	16	3540	1.75	< 10	9	< 1	< 10	0.24	221	63	8.75	0.20	1.02	0.04	0.078	< 10	2	20
25685	3.9	< 0.5	3880	125	< 2	82	3	130	0.62	< 10	8	< 1	< 10	0.04	10	89	1.52	0.06	0.38	0.04	0.011	< 10	< 1	< 10
25686	< 0.2	< 0.5	88	59	< 2	12	4	23	0.25	< 10	8	< 1	< 10	0.05	1	121	0.33	0.06	0.06	0.09	0.012	< 10	< 1	< 10
25687	< 0.2	< 0.5	61	82	< 2	7	3	8	0.21	< 10	7	< 1	< 10	0.05	1	77	0.31	0.06	0.05	0.04	0.013	< 10	< 1	< 10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25688	< 0.2	< 0.5	34	65	< 2	7	< 2	10	0.30	< 10	7	< 1	< 10	0.05	2	111	0.47	0.08	0.13	0.05	0.012	< 10	< 1	< 10
25689	< 0.2	< 0.5	33	204	< 2	33	2	21	1.68	< 10	6	< 1	< 10	0.07	2	66	1.83	0.02	2.26	0.04	0.018	< 10	1	< 10
25690	< 0.2	< 0.5	3	10	< 2	< 1	< 2	1	0.03	< 10	9	< 1	< 10	0.03	< 1	2	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10
25691	< 0.2	< 0.5	8	198	< 2	16	2	13	0.75	< 10	7	< 1	< 10	0.06	2	120	1.15	0.08	0.85	0.05	0.013	< 10	2	< 10
25692	< 0.2	< 0.5	6	103	< 2	5	2	8	0.32	< 10	7	< 1	< 10	0.05	< 1	100	0.57	0.06	0.21	0.04	0.011	< 10	< 1	< 10
25693	< 0.2	< 0.5	5	140	< 2	9	< 2	11	0.55	< 10	8	< 1	< 10	0.07	10	94	1.21	0.04	0.60	0.05	0.022	< 10	1	< 10

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25584	60	0.04	26	< 10	2	1	0.255
25585	74	0.06	76	< 10	2	< 1	0.040
25586	55	0.07	92	< 10	1	< 1	0.178
25587	66	0.03	15	< 10	1	1	0.295
25588	74	0.03	21	< 10	< 1	< 1	0.060
25589	57	0.04	13	< 10	< 1	< 1	0.059
25590	2	< 0.01	< 1	< 10	1	4	0.020
25591	30	0.04	19	< 10	< 1	1	0.022
25592	34	0.03	15	< 10	< 1	< 1	0.027
25593	66	0.06	36	< 10	2	1	0.026
25594	78	0.03	12	< 10	< 1	< 1	0.041
25595	133	0.06	32	< 10	2	3	0.025
25596	6	0.02	17	< 10	2	< 1	0.006
25597	10	0.06	27	< 10	2	1	0.005
25598	67	0.04	16	< 10	< 1	< 1	0.010
25599	97	0.03	18	< 10	< 1	< 1	0.016
25600	65	0.02	33	< 10	< 1	1	0.498
25601	26	0.06	34	< 10	2	2	0.010
25602	87	< 0.01	3	< 10	< 1	< 1	0.137
25603	48	< 0.01	4	< 10	1	< 1	0.051
25604	91	< 0.01	8	< 10	< 1	< 1	0.366
25605	68	< 0.01	4	< 10	< 1	< 1	0.143
25606	72	< 0.01	5	< 10	< 1	< 1	0.753
25607	77	< 0.01	9	< 10	< 1	< 1	0.694
25608	70	0.02	14	< 10	< 1	1	1.202
25609	60	0.03	21	< 10	< 1	< 1	0.686
25610	1	< 0.01	< 1	< 10	1	4	0.018
25611	30	< 0.01	5	< 10	1	1	0.150
25612	15	< 0.01	5	< 10	1	1	0.461
25613	60	< 0.01	9	< 10	< 1	< 1	0.552
25614	71	0.01	13	< 10	< 1	< 1	0.906
25615	61	0.02	15	< 10	< 1	1	1.823
25616	61	< 0.01	9	< 10	< 1	< 1	1.531
25617	63	0.01	16	< 10	< 1	< 1	1.808
25618	67	0.01	18	< 10	< 1	1	1.508
25619	53	0.02	25	< 10	< 1	1	2.255
25620	64	0.02	33	< 10	< 1	1	0.506
25621	57	0.02	22	< 10	< 1	< 1	1.220
25622	68	0.01	17	< 10	< 1	< 1	0.896
25623	44	0.05	85	< 10	< 1	< 1	0.453
25624	55	0.01	11	< 10	< 1	< 1	1.966
25625	42	0.02	16	< 10	< 1	< 1	0.192
25626	40	0.03	52	< 10	< 1	< 1	0.222
25627	48	0.03	44	< 10	< 1	< 1	0.054
25628	20	0.04	110	< 10	< 1	1	1.578
25629	23	0.04	116	< 10	< 1	1	0.949
25630	1	< 0.01	< 1	< 10	1	4	0.019
25631	60	0.03	62	< 10	< 1	< 1	0.517
25632	24	0.02	182	< 10	< 1	1	1.397
25633	23	0.02	143	< 10	< 1	2	3.634
25634	51	0.02	75	< 10	< 1	< 1	0.545
25635	11	0.04	36	< 10	1	2	1.876

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25535	8	0.02	92	< 10	< 1	< 1	0.016
25637	4	0.03	94	< 10	< 1	< 1	0.012
25638	4	0.03	43	< 10	< 1	< 1	0.111
25639	4	0.01	27	< 10	1	< 1	0.012
25640	68	0.02	34	< 10	< 1	1	0.529
25641	3	0.10	117	< 10	< 1	< 1	0.058
25642	3	0.02	25	< 10	1	1	0.510
25643	5	0.05	31	< 10	< 1	< 1	0.111
25644	7	0.04	7	< 10	1	2	0.007
25645	30	0.07	9	< 10	3	1	0.406
25646	18	0.08	11	< 10	4	2	0.894
25647	24	0.12	53	< 10	3	3	0.597
25648	21	0.13	36	< 10	3	5	2.966
25649	31	0.09	75	< 10	3	2	2.058
25650	2	< 0.01	< 1	< 10	1	4	0.020
25651	72	0.10	76	< 10	4	1	0.406
25652	41	0.05	56	< 10	2	1	0.533
25653	67	0.07	62	< 10	2	< 1	0.789
25654	49	0.09	81	< 10	7	2	0.091
25655	29	0.13	133	< 10	10	2	0.163
25656	16	0.14	62	< 10	4	3	3.209
25657	28	0.11	88	< 10	3	1	0.861
25658	22	0.12	100	< 10	3	2	0.396
25659	8	0.12	71	14	5	3	4.310
25660	69	0.02	34	< 10	< 1	1	0.531
25661	15	0.15	67	< 10	5	4	0.300
25662	67	0.08	73	< 10	4	1	0.140
25663	61	0.05	56	< 10	2	< 1	0.254
25664	17	0.14	49	< 10	8	5	0.267
25665	9	0.18	57	< 10	12	5	3.669
25666	8	0.17	26	< 10	13	9	1.010
25667	12	0.14	15	< 10	13	5	0.023
25668	8	0.15	92	< 10	10	4	2.774
25669	4	0.09	64	< 10	6	4	7.111
25670	1	< 0.01	< 1	< 10	1	4	0.025
25671	8	0.12	65	< 10	9	6	5.904
25672	13	0.17	78	< 10	12	4	0.148
25673	10	0.11	122	< 10	10	3	2.722
25674	8	0.10	92	< 10	9	3	3.192
25675	9	0.22	114	< 10	15	2	0.425
25676	9	0.16	97	< 10	16	4	0.582
25677	8	0.19	60	< 10	13	6	0.049
25678	6	0.16	40	< 10	13	7	0.029
25679	12	0.16	62	< 10	11	4	0.267
25680	65	0.02	33	< 10	< 1	1	0.523
25681	4	0.12	9	< 10	16	9	0.030
25682	2	0.04	97	< 10	3	8	6.876
25683	2	0.05	105	< 10	5	7	10.41
25684	3	0.02	27	< 10	6	5	5.610
25685	1	< 0.01	2	< 10	4	4	0.893
25686	1	< 0.01	< 1	< 10	5	5	0.043
25687	1	< 0.01	< 1	< 10	4	5	0.056

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25688	1	< 0.01	< 1	< 10	4	4	0.151
25689	1	< 0.01	2	< 10	5	1	0.082
25690	1	< 0.01	< 1	< 10	< 1	3	0.077
25691	1	< 0.01	1	< 10	7	4	0.086
25692	1	< 0.01	< 1	< 10	6	2	0.109
25693	2	< 0.01	< 1	< 10	7	3	0.594

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.2	2.4	1100	838	15	33	894	575	0.61	360	239	<1	1470	0.87	11	6	25.5	0.03	0.18	0.08	0.038	87	1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.6	< 0.5	694.0	146	339	42	47	75	2.77	102	21	1	22	1.00	14	58	3.71	1.45	1.95	0.15	0.128	< 10	7	< 10
GXR-4 Cert	4.00	0.860	692.0	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.064	0.120	4.80	7.70	5.60
GXR-2 Meas	15.6	4.5	67	873	<2	14	648	495	3.20	<10	1340	<1	<10	0.80	7	21	1.81	0.48	0.52	0.29	0.046	23	4	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	< 0.5	72	1040	< 2	24	99	130	7.00	217	837	< 1	< 10	0.17	13	83	5.23	0.84	0.45	0.15	0.032	< 10	22	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas							2720																	
OREAS 13P Cert							2310																	
25556 Ong	< 0.2	< 0.5	5	116	< 2	192	< 2	27	2.92	< 10	7	< 1	< 10	0.51	30	114	2.50	< 0.01	3.97	0.06	0.078	< 10	< 1	< 10
25565 Dup	< 0.2	< 0.5	8	119	< 2	188	< 2	26	2.83	< 10	7	< 1	< 10	0.51	29	113	2.39	< 0.01	3.85	0.05	0.078	< 10	< 1	< 10
25610 Ong	< 0.2	< 0.5	3	10	< 2	< 1	< 2	1	0.04	< 10	10	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.02	0.004	< 10	< 1	< 10
25610 Dup	< 0.2	< 0.5	4	10	< 2	< 1	< 2	1	0.03	< 10	9	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.02	0.004	< 10	< 1	< 10
25623 Ong	3.8	3.4	786	129	< 2	203	27	63	4.25	< 10	35	< 1	< 10	2.20	31	65	2.79	0.20	2.47	0.38	0.006	< 10	4	< 10
25623 Dup	3.7	3.0	826	121	< 2	189	25	59	4.44	< 10	34	< 1	< 10	2.04	29	60	2.62	0.18	2.25	0.41	0.005	< 10	4	< 10
25637 Ong	< 0.2	< 0.5	10	153	< 2	46	< 2	29	3.05	< 10	27	< 1	< 10	0.08	11	123	2.10	0.20	2.63	0.05	0.008	< 10	5	< 10
25637 Dup	< 0.2	< 0.5	10	141	< 2	43	< 2	30	3.00	< 10	27	< 1	< 10	0.07	10	119	2.00	0.19	2.57	0.05	0.009	< 10	5	< 10
25650 Ong	0.7	< 0.5	1610	315	< 2	1540	3	30	8.18	< 10	23	< 1	< 10	2.95	50	170	3.99	0.03	3.82	0.48	0.003	< 10	3	< 10
25650 Dup	0.6	< 0.5	1570	303	< 2	1490	8	29	6.04	< 10	24	< 1	< 10	2.82	48	162	3.81	0.02	3.65	0.45	0.003	< 10	3	< 10
25674 Ong	8.6	9.3	4770	236	< 2	885	18	337	1.78	< 10	17	< 1	< 10	0.78	135	57	9.37	0.33	1.46	0.06	0.106	< 10	5	< 10
25674 Dup	7.6	9.8	5070	227	< 2	895	17	293	1.86	< 10	16	< 1	< 10	0.72	111	54	8.67	0.30	1.39	0.08	0.106	< 10	5	< 10
25687 Ong	< 0.2	< 0.5	87	81	< 2	7	3	8	0.21	< 10	6	< 1	< 10	0.04	1	76	0.31	0.08	0.05	0.04	0.013	< 10	< 1	< 10
25687 Dup	< 0.2	< 0.5	86	83	< 2	6	3	8	0.22	< 10	7	< 1	< 10	0.05	1	79	0.32	0.06	0.05	0.04	0.013	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	198		75	127	25	17	0.198
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	70		86	12	12	9	2.054
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	87		40	< 10	10	11	0.032
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	31		171	< 10	7	9	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
25555 Orig	7	0.02	17	< 10	2	< 1	0.006
25565 Dup	6	0.02	17	< 10	2	< 1	0.007
25610 Orig	1	< 0.01	< 1	< 10	1	4	0.018
25610 Dup	1	< 0.01	< 1	< 10	1	4	0.018
25623 Orig	45	0.05	89	< 10	< 1	< 1	0.472
25623 Dup	44	0.05	81	< 10	< 1	< 1	0.434
25637 Orig	4	0.03	93	< 10	< 1	< 1	0.012
25637 Dup	4	0.03	94	< 10	< 1	< 1	0.012
25660 Orig	69	0.02	35	< 10	< 1	1	0.535
25660 Dup	67	0.02	33	< 10	< 1	1	0.527
25674 Orig	8	0.11	96	< 10	10	3	3.313
25674 Dup	8	0.10	89	< 10	9	3	3.070
25687 Orig	1	< 0.01	< 1	< 10	4	5	0.057
25687 Dup	1	< 0.01	< 1	< 10	4	5	0.062
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 15-May-08
Invoice No.: A08-2433
Invoice Date: 23-Jun-08
Your Reference: DOSSIER 22234

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

81 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2433**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2433

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25182	17.5	13.0	50<0	279	<2	1780	157	180	4.28	<10	9	<1	<10	2.95	124	139	7.15	0.02	1.68	0.17	0.007	<10	3	<10
25183	6.5	9.4	1890	306	<2	1100	22	358	3.74	<10	8	<1	<10	1.00	97	381	6.63	0.01	4.38	0.06	0.006	<10	3	<10
25184	9.1	12.8	2760	307	<2	1070	64	447	3.51	<10	7	<1	<10	0.93	100	380	5.34	<0.01	4.09	0.04	0.004	<10	2	<10
25185	7.6	9.6	2570	260	<2	1120	62	444	3.62	<10	8	<1	<10	1.17	110	294	6.93	0.02	3.85	0.09	0.005	<10	2	<10
25186	8.7	17.5	3880	325	<2	1040	102	791	3.85	<10	11	<1	<10	3.25	98	281	6.78	0.02	2.53	0.14	0.006	<10	3	<10
25187	7.4	26.1	1960	784	<2	632	94	1880	4.40	<10	10	<1	<10	2.44	52	623	8.45	0.03	5.38	0.05	0.004	<10	10	<10
25188	36.0	309	>10000	959	<2	531	947	>10000	4.23	<10	9	<1	30	2.85	157	286	11.7	0.02	4.05	0.05	0.027	<10	10	<10
25189	16.4	33.1	7080	676	<2	1240	297	1940	4.89	<10	12	<1	<10	2.86	106	281	11.6	0.02	2.41	0.21	0.007	<10	4	<10
25190	0.7	<0.5	1480	335	<2	1520	3	30	6.63	<10	23	<1	<10	3.30	58	181	3.85	0.03	3.81	0.38	0.003	<10	4	<10
25191	9.2	20.4	5810	457	<2	4360	148	649	2.66	<10	18	<1	<10	1.35	167	137	26.0	0.06	2.10	0.06	0.013	<10	7	<10
25192	0.3	0.8	190	804	<2	125	7	130	5.37	<10	18	<1	<10	0.40	19	60	8.83	0.05	8.87	0.02	0.077	<10	8	<10
26318	<0.2	0.5	84	619	3	88	5	89	3.73	<10	64	<1	<10	0.54	19	121	6.55	0.19	3.62	0.03	0.081	<10	6	<10
28319	<0.2	0.7	87	967	<2	13	3	100	3.04	<10	155	<1	<10	1.75	17	86	4.68	0.41	2.00	0.08	0.080	<10	9	<10
28320	0.5	<0.5	1300	324	<2	1510	<2	28	5.95	<10	28	<1	<10	3.19	56	174	3.82	0.03	3.55	0.34	0.003	<10	4	<10
28321	<0.2	1.6	27	694	<2	15	5	272	2.91	<10	188	<1	<10	1.27	16	95	4.26	0.77	2.01	0.08	0.072	<10	9	<10
28322	<0.2	<0.5	90	962	<2	11	4	129	3.45	<10	282	<1	<10	1.60	17	89	6.33	0.97	2.10	0.10	0.079	<10	11	<10
28323	<0.2	<0.5	105	559	<2	160	<2	33	6.32	<10	11	<1	<10	6.57	25	553	4.84	0.02	3.34	0.03	0.003	<10	9	<10
28324	0.6	0.6	440	386	<2	266	<2	38	7.13	<10	63	<1	<10	6.81	47	504	4.00	0.10	2.87	0.22	0.002	<10	9	<10
28325	<0.2	<0.5	85	239	<2	105	3	24	5.34	<10	34	<1	<10	3.39	19	365	2.62	0.05	2.03	0.50	<0.001	<10	4	<10
28326	<0.2	<0.5	32	121	<2	13	7	5	0.43	<10	8	<1	<10	0.19	<1	223	0.31	0.12	0.05	0.06	0.009	<10	<1	12
28327	<0.2	<0.5	21	342	<2	10	7	4	0.43	<10	9	<1	<10	0.22	<1	169	0.31	0.10	0.06	0.06	0.013	<10	<1	<10
28328	1.2	0.7	1040	284	<2	95	12	222	4.64	<10	76	<1	<10	2.51	27	90	5.12	0.64	1.98	0.26	0.010	<10	3	<10
28329	2.8	1.6	1550	146	<2	318	18	70	5.22	<10	84	<1	<10	2.67	30	82	4.45	0.70	1.64	0.43	0.012	<10	5	<10
28330	<0.2	<0.5	5	16	<2	<1	<2	<1	0.05	<10	12	<1	<10	0.18	<1	2	0.04	0.02	0.02	0.004	<10	<1	<10	
28331	1.6	0.9	571	237	<2	51	<4	82	5.02	<10	217	<1	<10	1.51	11	96	3.72	0.62	2.02	0.38	0.016	<10	5	<10
28332	<0.2	0.7	29	429	<2	19	7	83	4.61	<10	526	<1	<10	0.18	14	97	5.15	0.97	2.80	0.16	0.021	<10	9	<10
28333	0.7	<0.5	293	288	<2	81	6	68	4.23	<10	239	<1	<10	0.81	13	130	3.91	0.78	2.42	0.17	0.037	<10	7	<10
28334	8.2	3.0	3980	242	<2	660	9	113	5.11	<10	31	<1	<10	2.00	85	69	9.77	0.83	2.15	0.31	0.035	<10	7	<10
28335	3.2	1.0	1440	232	<2	199	20	84	5.67	<10	100	<1	<10	2.44	24	81	7.01	0.73	1.88	0.48	0.032	<10	6	<10
28336	2.9	1.6	1510	211	<2	246	17	95	4.60	<10	44	<1	<10	1.97	35	53	6.42	0.79	1.83	0.34	0.034	<10	6	<10
28337	3.6	1.3	1220	172	<2	107	26	71	5.81	<10	127	<1	<10	3.42	19	116	4.46	0.96	1.28	0.40	0.026	<10	4	<10
28338	5.2	1.7	1900	202	<2	234	34	91	5.07	<10	50	<1	<10	2.85	38	80	5.73	0.64	1.49	0.34	0.030	<10	5	<10
28339	7.1	2.1	2140	230	<2	300	53	98	5.15	<10	40	<1	<10	2.57	51	102	6.28	0.63	1.47	0.44	0.033	<10	5	<10
28340	0.6	<0.5	1570	354	<2	1740	3	29	6.61	<10	25	<1	<10	3.43	59	163	3.80	0.04	3.65	0.35	0.003	<10	4	<10
28341	6.2	1.9	1370	309	<2	196	58	108	4.45	<10	112	<1	<10	1.45	30	115	5.05	0.73	1.98	0.39	0.033	<10	6	<10
28342	3.8	1.1	768	299	<2	92	54	94	4.64	<10	221	<1	<10	1.46	18	133	4.25	0.67	1.84	0.45	0.033	<10	6	<10
28343	4.3	2.5	520	296	<2	92	74	128	5.61	<10	125	<1	<10	2.31	21	88	4.96	0.97	2.45	0.42	0.025	<10	11	<10
28344	21.1	12.3	6150	131	<2	280	45	154	6.95	<10	18	<1	<10	0.33	32	283	3.83	0.03	0.35	0.07	0.004	<10	<1	<10
28345	14.3	6.9	2630	216	<2	462	40	177	3.17	<10	27	<1	<10	0.36	35	164	6.28	0.49	2.04	0.11	0.043	<10	4	<10
28346	8.4	5.9	2010	205	<2	288	41	230	2.12	<10	39	<1	<10	0.31	28	144	6.80	0.98	2.04	0.09	0.041	<10	5	<10
28347	2.5	3.8	1150	172	<2	978	44	340	1.74	<10	9	<1	11	0.23	59	114	10.2	0.67	1.45	0.11	0.031	<10	6	11
28348	9.7	11.6	6170	159	<2	6670	25	292	1.43	<10	8	<1	<10	0.57	602	91	42.2	0.38	0.84	0.17	0.112	13	5	<10
28349	1.1	1.4	575	182	<2	211	13	105	1.27	<10	100	<1	<10	0.69	32	110	5.72	0.35	0.91	0.15	0.130	<10	7	<10
28350	0.8	1.3	7410	293	<2	>10000	7	41	0.50	<10	13	<1	<10	0.42	635	29	26.4	0.11	0.16	0.06	0.044	<10	4	<10
28351	0.4	0.8	169	194	<2	101	7	48	0.94	<10	77	<1	<10	0.73	29	124	6.24	0.17	0.71	0.12	0.133	<10	6	<10
28352	0.7	0.8	68	160	<2	41	5	38	0.75	<10	40	<1	<10	0.77	23	114	4.69	0.06	0.38	0.15	0.136	<10	5	<10
28353	0.4	0.7	196	186	<2	44	12	59	1.66	<10	43	<1	<10	1.27	23	93	4.79	0.12	0.70	0.26	0.116	<10	4	<10
28354	<0.2	<0.5	44	380	<2	39	5	81	3.08	<10	179	<1	<10	1.53	19	116	4.25	0.90	2.01	0.16	0.039	<10	11	<10
28355	0.2	0.6	76	296	<2	45	6	89	2.67	<10	184	<1	<10	1.38	22	109	5.01	0.83	2.18	0.15	0.071	<10	13	<10
28356	13.0	12.6	8880	213	<2	599	48	503	1.63	<10	11	<1	<10	0.50	277	100	8.70	0.32	1.28	0.08	0.048	<10	5	<10
28357	38.8	53.3	>10000	168	<2	4470	62	1680	0.96	<10	4	<1	<10	0.24	225	64	26.5	0.12	0.62	0.05	0.017	<10	2	<10
28358	24.4	28.1	>10000	223	<2	2820	93	1050	1.36	<10	6	<1	<10	0.61	214	74	16.8	0.13	0.84	0.04	0.019	<10	3	13

Activation Laboratories Ltd. Report: A08-2433

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
28356	13.9	9.4	> 10000	147	< 2	7820	78	357	0.97	< 10	7	< 1	12	0.30	309	124	36.9	0.18	0.58	0.03	0.012	< 10	2	10
28360	< 0.2	< 0.5	4	13	< 2	< 1	< 2	< 1	0.05	< 10	9	< 1	< 10	0.18	< 1	< 2	0.03	0.02	0.01	0.02	0.004	< 10	< 1	< 10
28361	14.8	4.4	> 10000	205	< 2	7830	63	333	1.07	< 10	11	< 1	13	0.30	328	127	36.4	0.18	0.70	0.03	0.011	< 10	2	< 10
28362	1.4	0.7	1610	468	< 2	284	12	78	3.38	< 10	96	< 1	< 10	0.30	37	86	7.27	0.47	3.10	0.03	0.057	< 10	7	< 10
28363	< 0.2	0.7	137	385	3	45	3	45	3.29	< 10	134	< 1	< 10	0.38	20	70	5.48	0.62	2.57	0.03	0.087	< 10	8	< 10
28364	< 0.2	< 0.5	133	277	< 2	16	3	36	2.76	< 10	99	< 1	< 10	0.16	14	175	3.69	0.46	1.99	0.03	0.036	< 10	4	< 10
28365	< 0.2	< 0.5	14	519	2	13	6	108	3.36	< 10	121	< 1	< 10	0.57	5	216	2.55	0.69	1.87	0.10	0.012	< 10	3	< 10
28366	< 0.2	1.0	616	484	2	30	4	205	2.19	< 10	79	< 1	< 10	0.41	16	123	6.17	0.50	1.22	0.06	0.021	< 10	2	< 10
28367	< 0.2	0.5	446	457	< 2	26	5	193	2.17	< 10	89	< 1	< 10	0.40	13	151	5.40	0.51	1.28	0.06	0.020	< 10	2	< 10
28372	0.4	< 0.5	690	517	2	13	6	72	2.64	< 10	164	< 1	< 10	0.79	9	114	3.16	0.30	1.44	0.09	0.029	< 10	6	< 10
28373	< 0.2	< 0.5	39	827	2	13	4	85	2.98	< 10	175	< 1	< 10	0.40	10	198	4.17	0.62	1.89	0.06	0.032	< 10	5	< 10
28374	< 0.2	0.8	367	521	2	11	4	182	3.23	< 10	129	< 1	< 10	0.36	15	135	4.86	0.68	1.55	0.06	0.020	< 10	4	< 10
28375	< 0.2	< 0.5	21	394	< 2	31	6	116	2.78	< 10	90	< 1	< 10	1.26	10	136	3.10	0.45	1.59	0.07	0.009	< 10	4	< 10
28376	< 0.2	< 0.5	30	414	< 2	34	4	115	2.76	< 10	89	< 1	< 10	1.60	12	141	3.20	0.45	1.73	0.06	0.011	< 10	5	< 10
28377	< 0.2	< 0.5	95	473	< 2	52	7	81	2.71	< 10	55	< 1	< 10	2.62	24	174	3.41	0.27	2.31	0.04	0.013	< 10	9	< 10
28378	< 0.2	< 0.5	79	486	< 2	56	7	79	2.71	< 10	59	< 1	< 10	2.61	24	171	3.68	0.30	2.42	0.06	0.014	< 10	9	< 10
28379	< 0.2	< 0.5	64	525	< 2	59	7	81	2.86	< 10	59	< 1	< 10	2.90	25	221	3.93	0.31	2.48	0.06	0.013	< 10	11	< 10
28380	< 0.2	< 0.5	101	546	< 2	66	8	82	3.37	< 10	63	< 1	< 10	2.96	26	232	3.95	0.33	2.61	0.06	0.014	< 10	12	< 10
28381	< 0.2	< 0.5	61	516	< 2	59	8	88	2.97	< 10	45	< 1	< 10	3.00	25	165	3.29	0.20	2.31	0.08	0.014	< 10	10	< 10
28382	< 0.2	< 0.5	3	295	< 2	7	3	40	2.50	< 10	33	< 1	< 10	0.14	14	166	3.44	0.15	2.35	0.02	0.023	< 10	2	< 10
28383	< 0.2	< 0.5	8	347	< 2	7	4	38	2.80	< 10	48	< 1	< 10	0.15	9	112	3.40	0.27	2.32	0.02	0.034	< 10	3	< 10
28370	0.6	< 0.5	1350	324	< 2	1640	2	25	5.37	< 10	21	< 1	< 10	3.10	55	149	3.54	0.04	3.41	0.29	0.002	< 10	3	< 10
28371	< 0.2	< 0.5	3	357	2	7	3	39	2.56	< 10	47	< 1	< 10	0.09	6	135	3.12	0.26	2.26	0.02	0.023	< 10	2	< 10
28372	< 0.2	< 0.5	2	407	2	9	2	48	2.89	< 10	39	< 1	< 10	0.17	8	107	3.46	0.24	2.65	0.02	0.030	< 10	4	< 10
28373	< 0.2	< 0.5	3	333	< 2	5	< 2	42	2.30	< 10	34	< 1	< 10	0.22	4	66	2.65	0.19	1.94	0.02	0.015	< 10	1	< 10
28374	< 0.2	0.7	146	564	< 2	6	< 2	112	3.01	< 10	92	< 1	< 10	0.38	12	84	6.22	0.47	2.31	0.03	0.052	< 10	6	< 10
28375	< 0.2	0.7	12	850	< 2	7	< 2	79	3.02	< 10	83	< 1	< 10	0.44	16	84	5.81	0.35	2.28	0.02	0.087	< 10	6	< 10
28376	< 0.2	0.7	24	681	3	7	< 2	72	2.63	< 10	60	< 1	< 10	1.82	14	64	4.76	0.27	2.04	0.02	0.078	< 10	4	< 10
28377	< 0.2	< 0.5	6	103	< 2	11	2	7	0.34	< 10	16	3	< 10	1.11	< 1	164	0.38	0.10	0.15	0.02	0.079	< 10	< 1	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25182	58	0.03	30	< 10	1	3	3.187
25183	5	0.03	33	< 10	< 1	2	1.167
25184	4	0.02	25	< 10	< 1	2	1.259
25185	10	0.02	27	< 10	< 1	2	2.053
25186	32	0.03	33	< 10	< 1	2	2.415
25187	14	0.03	62	17	2	3	0.930
25188	17	0.06	102	147	4	4	3.063
25189	40	0.04	97	17	2	4	3.392
25190	74	0.02	36	< 10	< 1	1	0.495
25191	12	0.04	149	< 10	2	7	3.269
25192	2	0.10	71	< 10	23	11	0.233
26318	3	0.15	62	< 10	20	15	0.305
28319	17	0.24	63	< 10	16	12	0.112
28320	74	0.02	36	< 10	< 1	1	0.481
28321	11	0.26	63	< 10	13	12	0.121
28322	17	0.25	73	< 10	13	13	0.153
28323	9	0.05	64	< 10	2	2	0.105
28324	29	0.06	51	< 10	2	1	0.375
28325	55	0.05	30	< 10	< 1	< 1	0.077
28326	2	< 0.01	2	< 10	2	2	0.019
28327	2	< 0.01	1	< 10	3	3	0.024
28328	27	0.10	37	< 10	9	7	1.228
28329	33	0.06	35	< 10	2	3	1.117
28330	2	< 0.01	< 1	< 10	1	6	0.009
28331	25	0.10	22	< 10	3	9	0.150
28332	8	0.14	21	< 10	5	19	0.016
28333	23	0.13	82	< 10	4	5	0.064
28334	29	0.13	76	< 10	5	5	2.337
28335	45	0.12	86	< 10	5	4	0.918
28336	29	0.12	71	< 10	6	3	1.336
28337	53	0.11	63	< 10	4	3	0.577
28338	39	0.11	88	< 10	4	4	1.262
28339	34	0.12	70	< 10	4	4	1.560
28340	69	0.02	36	< 10	< 1	2	0.497
28341	23	0.14	67	< 10	4	3	0.736
28342	21	0.14	50	< 10	4	3	0.403
28343	27	0.15	72	< 10	5	2	0.507
28344	5	0.03	21	< 10	1	2	1.939
28345	7	0.11	87	< 10	4	4	1.811
28346	8	0.12	71	< 10	4	4	1.017
28347	5	0.13	90	< 10	3	7	2.792
28348	12	0.08	219	< 10	10	15	4.986
28349	10	0.16	158	< 10	12	8	0.972
28350	18	0.09	56	< 10	16	17	5.500
28351	12	0.15	173	< 10	14	8	0.442
28352	17	0.13	190	< 10	14	7	0.264
28353	24	0.13	173	< 10	12	6	0.484
28354	22	0.15	87	< 10	7	9	0.076
28355	24	0.16	125	< 10	7	6	0.222
28356	6	0.11	124	< 10	5	5	3.920
28357	4	0.05	107	13	1	7	7.442
28358	9	0.06	94	123	3	6	7.427

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28356	6	0.04	87	< 10	1	11	5.343
28360	2	< 0.01	< 1	< 10	1	6	0.009
28361	5	0.04	91	< 10	2	10	5.257
28362	5	0.12	52	< 10	15	11	0.993
28363	5	0.16	63	< 10	23	12	0.148
28364	4	0.07	19	< 10	12	19	0.172
28365	18	0.08	5	< 10	11	59	0.016
28366	6	0.05	14	< 10	11	21	0.877
28367	6	0.06	14	< 10	11	22	0.670
28622	10	0.10	26	< 10	19	22	0.094
25223	11	0.11	38	< 10	12	20	0.042
26224	8	0.08	12	< 10	12	20	0.411
26225	12	0.08	27	< 10	12	15	0.046
25226	13	0.09	36	< 10	11	15	0.044
26227	16	0.13	75	< 10	5	3	0.033
26228	17	0.13	79	< 10	5	3	0.030
25229	21	0.13	86	< 10	5	3	0.033
28630	23	0.14	87	< 10	6	4	0.033
25231	24	0.13	83	< 10	4	2	0.030
28368	3	0.01	11	< 10	7	16	0.106
28369	3	0.04	15	< 10	9	11	0.057
28370	65	0.02	35	< 10	< 1	2	0.454
28371	3	0.03	8	< 10	11	22	0.032
28372	3	0.04	21	< 10	13	17	0.030
28373	2	0.03	2	< 10	13	26	0.025
28374	4	0.11	39	< 10	13	14	0.176
28375	5	0.08	56	< 10	10	7	0.053
28376	7	0.04	40	< 10	15	7	0.055
28377	4	< 0.01	2	< 10	5	2	0.017

Activation Laboratories Ltd. Report: A08-2433

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.9	1.6	1090	776	14	34	531	630	0.31	349	231	<1	1490	0.78	8	6	25.0	0.02	0.13	0.06	0.034	78	1	22
GXR-1 Cert	31.0	3.3	1110	852	18	41	730	760	3.52	427	750	1	1380	0.96	8	12	23.6	0.05	0.22	0.05	0.065	122	2	54
GXR-4 Meas	3.3	<0.5	5900	142	334	40	44	70	2.71	101	30	1	17	1.00	17	56	3.47	1.40	1.72	0.11	0.117	<10	7	<10
GXR-4 Cert	4.0	0.5	6620	156	310	42	62	73	7.20	98	1640	2	16	1.01	15	64	3.09	4.01	1.65	0.65	0.120	5	8	6
GXR-2 Meas	18.8	4.4	86	1070	<2	18	760	554	3.79	14	1210	1	<10	0.85	11	26	2.19	0.55	0.55	0.28	0.055	33	5	<10
GXR-2 Cert	17.0	4.1	78	1037	2	21	890	530	16.50	25	2240	2	1	0.93	9	35	1.86	1.37	0.85	3.56	0.105	49	7	2
GXR-6 Meas	0.3	<0.5	67	1040	<2	25	90	117	6.85	227	892	<1	<10	0.17	17	82	5.47	0.90	0.42	0.14	0.031	<10	23	<10
GXR-6 Cert	1.3	1.0	66	1007	2	27	101	118	17.70	330	1300	1	0	0.18	14	95	5.58	1.87	0.51	3.10	0.035	4	28	2
OREAS 13P Meas			2670			2410											6.40							
OREAS 13P Cert			2500			2261											7.58							
25185 Ong	7.4	9.4	2370	257	<2	1110	60	438	3.38	<10	8	<1	<10	1.16	109	292	6.82	0.02	3.85	0.08	0.005	<10	2	<10
25185 Dup	7.8	9.8	2770	262	<2	1130	64	450	3.65	<10	9	<1	<10	1.18	111	297	7.04	0.02	4.02	0.10	0.005	<10	2	<10
28323 Ong	<0.2	0.8	108	559	<2	162	<2	33	6.35	<10	10	<1	<10	6.40	25	564	5.00	0.02	3.40	0.02	0.003	<10	9	<10
28323 Dup	<0.2	<0.5	102	559	<2	168	<2	33	6.25	<10	11	<1	<10	6.74	25	563	4.68	0.01	3.25	0.03	0.003	<10	9	<10
28337 Ong	3.8	1.5	1250	169	<2	107	26	69	5.77	<10	127	<1	<10	3.38	19	117	4.41	0.56	1.28	0.40	0.025	<10	4	<10
28337 Dup	3.6	1.2	1200	176	<2	107	24	72	5.84	<10	128	<1	<10	3.45	20	121	4.49	0.56	1.25	0.40	0.025	<10	4	<10
28360 Ong	<0.2	<0.5	4	12	<2	<1	<2	<1	0.05	<10	9	<1	<10	0.18	<1	<2	0.03	0.02	0.01	0.02	0.004	<10	<1	<10
28360 Dup	<0.2	<0.5	5	13	<2	1	<2	<1	0.05	<10	8	<1	<10	0.17	<1	2	0.03	0.02	0.01	0.02	0.004	<10	<1	<10
25228 Ong	<0.2	<0.5	78	484	<2	56	7	77	2.71	<10	58	<1	<10	2.60	24	189	3.66	0.30	2.38	0.05	0.014	<10	9	<10
25228 Dup	<0.2	<0.5	61	488	<2	55	8	80	2.71	<10	59	<1	<10	2.62	24	172	3.66	0.30	2.45	0.05	0.014	<10	9	<10
28377 Ong	<0.2	<0.5	5	102	<2	11	2	6	0.34	<10	17	3	<10	1.09	1	153	0.39	0.10	0.15	0.02	0.077	<10	<1	<10
28377 Dup	<0.2	<0.5	5	104	<2	11	2	7	0.35	<10	16	3	<10	1.13	<1	154	0.38	0.10	0.15	0.02	0.082	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	9	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	10	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.02	<0.001	<10	<1	<10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	152		74	135	23	14	0.188
GXR-1 Cert	275		80	164	32	38	0.257
GXR-4 Meas	72		87	12	12	11	1.854
GXR-4 Cert	221		87	31	14	186	1.770
GXR-2 Meas	52		49	< 10	11	12	0.037
GXR-2 Cert	180		52	2	17	289	0.031
GXR-6 Meas	32		178	< 10	6	14	0.015
GXR-6 Cert	35		186	2	14	110	0.016
OREAS 13P Meas							
OREAS 13P Cert							
25185 Orig	10	0.02	26	< 10	< 1	2	2.034
25185 Dup	10	0.02	27	< 10	< 1	2	2.071
28323 Orig	9	0.06	64	< 10	2	2	0.103
28323 Dup	9	0.08	64	< 10	2	1	0.107
28337 Orig	53	0.11	62	< 10	4	3	0.572
28337 Dup	53	0.12	64	< 10	4	3	0.582
28360 Orig	2	< 0.01	< 1	< 10	1	7	0.009
28360 Dup	2	< 0.01	< 1	< 10	1	6	0.009
25228 Orig	17	0.13	79	< 10	5	3	0.030
25228 Dup	17	0.13	79	< 10	5	3	0.031
28377 Orig	4	< 0.01	3	< 10	5	2	0.016
28377 Dup	5	< 0.01	2	< 10	5	2	0.018
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 15-May-08
Invoice No.: A08-2433 Additional
Invoice Date: 02-Dec-08
Your Reference: DOSSIER 22234

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

81 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2433 Additiona**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Analyte Symbol	Ni	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FUS- Na2O2	AR-ICP	AR-ICP
28345		2680	477
28348		2200	291
28347		1280	1080
28348		4150	5880
28349		650	232
28350	1.81	8030	> 10000
28351		181	82
28352		97	38
28353		199	41
28354		45	33
28355		65	42

Quality Control

Analyte Symbol	Ni	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FJS- Ni2O2	AR-ICP	AR-ICP

GXR-1 Meas		1030	26
GXR-1 Cert		1110	41.0
UNG-1 Meas	0.024		
UNG-1 Cert	0.0247		
GXR-4 Meas		6530	40
GXR-4 Cert		6520	42.0
GXR-2 Meas		85	16
GXR-2 Cert		76.0	21.0
CHR-PT+ Meas	0.572		
CHR-PT+ Cert	0.589		
GXR-6 Meas		74	20
GXR-6 Cert		69.0	27.0
OREAS 13P Meas		2420	2360
OREAS 13P Cert		2500	2260
DTS-2b Meas	0.374		
DTS-2b Cert	0.378		
28345 Orig		2180	291
28345 Dup		2210	291
Method Blank Method		< 1	< 1
Blank			
Method Blank Method		< 1	< 1
Blank			
Method Blank Method		< 1	< 1
Blank			
Method Blank Method	< 0.005		
Blank			
Method Blank Method	< 0.005		
Blank			



Date Submitted: 15-May-08
Invoice No.: A08-2434
Invoice Date: 28-May-08
Your Reference: DOSSIER 22235

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

82 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2434**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman". The signature is written in a cursive, flowing style.

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A08-2434

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm 0.2	ppm 0.5	ppm 1	ppm 2	ppm 2	ppm 1	ppm 2	ppm 1	% 0.01	ppm 10	ppm 1	ppm 1	ppm 10	% 0.01	ppm 1	ppm 2	% 0.01	% 0.01	% 0.01	% 0.01	% 0.001	ppm 10	ppm 1	ppm 10
AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25951	0.7	0.9	1100	496	<2	237	<2	37	7.33	15	12	<1	<10	4.70	116	600	5.29	0.05	4.02	0.16	0.005	<10	8	<10
25952	<0.2	<0.5	19	240	<2	79	3	21	4.66	<10	17	<1	<10	2.63	13	312	2.47	0.03	2.05	0.41	0.012	<10	3	<10
25953	<0.2	<0.5	21	159	<2	89	7	13	8.14	<10	14	<1	<10	5.15	13	184	1.83	0.02	1.41	0.58	0.012	<10	2	<10
25954	<0.2	<0.5	19	225	<2	113	<2	18	6.67	<10	15	<1	<10	4.17	22	235	2.44	0.03	1.98	0.39	0.003	<10	2	<10
25955	<0.2	<0.5	43	288	<2	97	<2	17	7.18	<10	23	<1	<10	4.50	17	281	2.58	0.03	2.05	0.53	0.006	<10	4	<10
25956	<0.2	<0.5	7	153	<2	90	<2	15	7.47	<10	30	<1	<10	4.78	14	295	1.96	0.06	1.81	0.51	0.003	<10	2	<10
25957	1.4	11.6	1010	269	<2	108	8	677	6.90	<10	19	<1	<10	4.33	19	320	2.89	0.04	2.46	0.41	0.002	<10	3	<10
25958	<0.2	<0.5	86	247	<2	100	<2	20	6.33	<10	13	<1	<10	3.96	18	290	2.39	0.03	2.10	0.44	0.004	<10	3	<10
25959	0.2	<0.5	144	177	<2	66	<2	17	6.67	<10	13	<1	<10	4.47	12	191	1.54	0.02	1.26	0.67	0.005	<10	3	<10
25960	<0.2	<0.5	4	11	<2	<1	<2	<1	0.04	<10	14	<1	<10	0.04	<1	2	0.06	0.01	0.02	0.02	0.004	<10	<1	<10
25961	0.2	<0.5	169	148	<2	46	4	9	8.54	<10	10	<1	<10	4.72	8	148	1.05	0.02	0.84	0.69	0.014	<10	3	<10
25962	0.2	<0.5	161	111	<2	56	3	9	7.47	<10	10	<1	<10	5.11	9	159	1.04	0.02	0.87	0.67	0.007	<10	3	<10
25963	<0.2	<0.5	12	142	<2	72	4	13	6.27	<10	16	<1	<10	4.01	11	161	1.32	0.03	1.40	0.44	0.004	<10	2	<10
25964	<0.2	<0.5	7	78	<2	28	3	7	5.68	<10	12	<1	<10	3.97	4	96	0.65	0.01	0.59	0.70	0.005	<10	2	<10
25965	<0.2	<0.5	88	68	<2	41	4	5	5.10	<10	11	<1	<10	3.57	6	90	0.68	0.01	0.56	0.59	0.048	<10	2	<10
25966	0.7	<0.5	303	89	<2	101	2	10	4.29	<10	11	<1	<10	3.04	12	142	0.96	0.02	0.85	0.38	0.009	<10	3	<10
25967	1.9	<0.5	825	103	<2	199	<2	12	2.35	<10	9	<1	<10	1.76	19	178	1.05	0.01	0.93	0.22	0.011	<10	4	<10
25968	1.8	<0.5	993	111	<2	176	4	8	2.31	<10	10	<1	<10	1.75	21	196	1.16	0.03	1.04	0.24	0.006	<10	4	<10
25969	1.2	<0.5	376	77	<2	80	3	9	3.25	<10	13	<1	<10	2.31	11	125	0.81	0.02	0.81	0.31	0.009	<10	3	<10
26378	<0.2	2.7	152	619	<2	9	6	359	2.61	<10	78	2	<10	1.27	14	66	4.15	0.36	1.75	0.04	0.094	<10	6	<10
23441	<0.2	<0.5	140	289	<2	597	<2	50	3.66	<10	8	<1	<10	0.14	80	248	5.47	<0.01	5.42	0.02	0.012	<10	<1	<10
23442	<0.2	<0.5	67	147	<2	644	3	31	3.05	<10	7	<1	<10	0.09	81	288	7.68	<0.01	5.54	0.01	0.009	<10	2	<10
23443	<0.2	<0.5	156	288	<2	532	<2	50	3.65	<10	7	<1	<10	0.08	75	136	4.86	<0.01	5.30	0.02	0.011	<10	<1	<10
23444	<0.2	<0.5	89	283	<2	498	<2	51	3.90	<10	6	<1	<10	0.14	59	112	4.60	<0.01	5.62	0.02	0.008	<10	<1	<10
23445	<0.2	<0.5	226	193	<2	316	<2	31	2.82	<10	7	<1	<10	0.79	39	177	2.87	<0.01	3.42	0.06	0.007	<10	1	<10
23446	<0.2	<0.5	174	155	<2	122	<2	12	4.07	<10	118	<1	<10	3.16	15	134	1.06	0.02	0.92	0.19	0.001	<10	<1	<10
23447	<0.2	<0.5	244	158	<2	282	4	18	4.34	<10	36	<1	<10	3.15	28	94	1.88	0.04	1.51	0.24	0.008	<10	1	<10
23448	<0.2	<0.5	12	173	<2	160	<2	17	4.66	<10	20	<1	<10	3.40	20	122	1.89	0.03	1.95	0.29	0.003	<10	2	<10
23449	<0.2	<0.5	100	184	<2	139	<2	16	4.46	<10	13	<1	<10	3.00	19	112	1.70	0.03	1.72	0.36	0.003	<10	2	<10
23450	1.0	1.1	8660	311	<2	>10000	3	41	0.53	<10	7	<1	<10	0.40	587	32	32.1	0.11	0.17	0.08	0.046	<10	4	<10
26970	0.7	<0.5	1010	334	<2	1620	11	27	6.05	<10	28	<1	<10	3.24	65	176	3.99	0.03	3.68	0.38	0.003	<10	4	<10
26971	0.4	<0.5	194	78	<2	43	3	7	6.69	<10	11	<1	<10	8.05	7	124	0.78	0.01	0.72	0.55	0.006	<10	2	<10
26972	0.2	<0.5	16	75	<2	31	4	7	6.73	<10	10	<1	<10	5.00	5	96	0.64	0.01	0.73	0.64	0.004	<10	1	<10
26973	0.4	<0.5	133	84	<2	53	4	7	8.01	<10	10	<1	<10	6.87	8	99	0.78	0.01	0.72	0.56	0.007	<10	2	<10
26974	0.6	<0.5	229	73	<2	117	3	8	6.63	<10	10	<1	<10	4.79	13	78	0.76	0.07	0.70	0.43	0.015	<10	2	<10
26975	0.4	<0.5	144	81	<2	120	3	8	7.04	<10	8	<1	<10	5.33	15	76	0.92	0.02	0.87	0.34	0.006	<10	2	<10
26976	0.4	<0.5	168	98	<2	177	4	9	6.64	<10	12	<1	<10	6.25	21	82	1.16	0.03	1.03	0.33	0.005	<10	2	<10
26977	0.3	<0.5	143	93	<2	176	4	9	7.15	<10	13	<1	<10	5.06	22	93	1.20	0.06	1.19	0.32	0.004	<10	2	<10
26978	0.6	<0.5	163	180	<2	167	<2	21	3.66	<10	24	<1	<10	2.63	28	208	2.11	0.13	2.61	0.16	0.003	<10	3	<10
26979	0.4	<0.5	201	210	<2	278	4	28	4.81	<10	27	<1	<10	2.84	37	142	2.58	0.17	3.18	0.17	0.005	<10	3	<10
26980	<0.2	<0.5	3	13	<2	<1	<2	<1	0.05	<10	12	<1	<10	0.44	<1	3	0.05	0.01	0.02	0.02	0.004	<10	<1	<10
26981	<0.2	<0.5	44	82	<2	50	4	6	5.74	<10	8	<1	<10	4.66	7	74	0.66	0.01	0.72	0.34	0.007	<10	2	<10
23451	<0.2	<0.5	37	171	<2	123	3	19	1.25	<10	143	<1	<10	1.07	16	216	1.50	0.29	1.48	0.11	0.094	<10	2	<10
23452	<0.2	<0.5	80	69	<2	34	<2	5	6.36	<10	15	<1	<10	4.47	6	114	0.64	0.01	0.53	0.67	0.009	<10	2	<10
23453	0.2	<0.5	189	81	<2	66	6	45	6.22	<10	17	<1	<10	4.27	11	153	0.80	0.01	0.67	0.76	0.013	<10	3	<10
23454	<0.2	<0.5	64	80	<2	48	5	7	6.66	<10	14	<1	<10	4.70	7	105	0.74	0.01	0.55	0.69	0.011	<10	2	<10
23456	<0.2	<0.5	71	109	<2	111	<2	12	6.63	<10	86	<1	<10	0.91	12	146	1.06	0.16	0.84	0.07	0.094	<10	1	<10
23458	<0.2	<0.5	229	138	<2	36	<2	9	4.98	<10	19	<1	<10	3.58	7	119	1.01	0.04	0.88	0.70	0.025	<10	4	<10
23457	0.3	<0.5	363	162	<2	110	5	10	4.66	<10	24	<1	<10	3.71	20	123	1.53	0.03	1.01	0.39	0.015	<10	3	<10
23459	<0.2	<0.5	201	128	<2	87	<2	6	5.31	<10	25	<1	<10	3.94	16	88	1.13	0.03	0.79	0.43	0.006	<10	3	<10
23459	<0.2	<0.5	131	69	<2	38	2	5	5.71	<10	22	<1	<10	3.89	6	106	0.66	0.06	0.58	0.64	0.008	<10	2	<10
23460	<0.2	<0.5	3	14	<2	<1	<2	<1	0.07	<10	9	<1	<10	0.18	<1	3	0.03	0.02	0.01	0.02	0.004	<10	<1	<10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
25682	< 0.2	< 0.5	39	132	< 2	63	3	12	5.76	< 10	9	< 1	< 10	3.99	11	95	1.17	0.02	1.20	0.33	0.006	< 10	2	< 10
25683	0.3	< 0.5	124	101	< 2	84	6	8	5.84	< 10	9	< 1	< 10	4.49	11	120	0.96	0.02	1.04	0.37	0.006	< 10	3	< 10
25684	0.7	< 0.5	187	56	< 2	102	10	8	6.84	< 10	9	< 1	< 10	5.08	12	52	0.63	< 0.01	0.81	0.37	0.004	< 10	1	< 10
25685	0.3	< 0.5	110	60	< 2	91	8	6	6.73	< 10	9	< 1	< 10	5.09	12	85	0.76	0.02	0.83	0.35	0.003	< 10	2	< 10
25686	< 0.2	< 0.5	23	98	< 2	55	7	8	6.77	< 10	8	< 1	< 10	4.85	8	69	0.80	0.01	0.80	0.35	0.002	< 10	1	< 10
25687	0.5	< 0.5	203	141	< 2	258	7	18	6.32	< 10	29	< 1	< 10	4.46	34	114	1.87	0.08	1.52	0.29	0.004	< 10	3	< 10
25688	0.3	< 0.5	106	121	< 2	109	5	9	6.41	< 10	11	< 1	< 10	4.87	15	95	1.17	0.02	1.08	0.37	0.007	< 10	3	< 10
25689	0.4	< 0.5	120	96	< 2	69	5	6	6.60	< 10	12	< 1	< 10	4.99	10	97	0.87	0.01	0.82	0.56	0.006	< 10	3	< 10
25690	1.1	< 0.5	1370	316	< 2	1470	5	25	6.16	< 10	24	< 1	< 10	3.07	59	165	3.81	0.23	3.52	0.36	0.003	< 10	3	< 10
25691	1.2	< 0.5	309	88	< 2	214	6	11	7.02	< 10	39	< 1	< 10	5.20	28	96	1.31	0.09	1.14	0.43	0.005	< 10	3	< 10
25481	< 0.2	< 0.5	177	90	< 2	60	4	8	8.40	< 10	18	< 1	< 10	4.50	10	135	0.83	0.03	0.73	0.62	0.006	< 10	3	< 10
23462	0.5	< 0.5	436	75	< 2	242	3	15	6.11	< 10	10	< 1	< 10	4.52	19	122	0.99	0.02	0.64	0.55	0.013	< 10	2	< 10
23463	1.1	< 0.5	466	231	< 2	136	3	34	3.40	< 10	261	< 1	< 10	0.90	23	130	3.28	0.52	2.63	0.14	0.019	< 10	7	< 10
23464	2.3	1.5	1240	253	< 2	94	4	49	2.71	< 10	214	< 1	< 10	0.29	15	53	3.34	0.81	2.32	0.09	0.023	< 10	6	< 10
23465	0.8	1.2	287	243	< 2	65	18	41	3.60	< 10	123	< 1	< 10	1.38	12	74	2.71	0.47	2.31	0.16	0.024	< 10	4	< 10
23466	1.4	0.9	573	294	< 2	124	14	45	3.45	< 10	117	< 1	< 10	1.14	17	60	3.15	0.42	2.62	0.16	0.016	< 10	5	< 10
23467	9.8	6.6	3020	354	< 2	216	30	102	4.02	< 10	135	< 1	< 10	1.25	29	93	5.30	0.62	3.24	0.22	0.022	< 10	9	17
23468	3.8	2.3	1290	280	< 2	111	62	50	4.73	< 10	84	< 1	< 10	2.71	17	86	4.43	0.34	2.06	0.35	0.124	< 10	6	16
23469	21.4	9.4	8230	981	< 2	333	49	88	2.63	< 10	31	< 1	< 10	1.17	34	122	5.11	0.11	1.83	0.11	0.020	< 10	5	19
23470	0.6	< 0.5	1630	336	< 2	1660	< 2	25	6.10	< 10	21	< 1	< 10	3.16	52	151	3.66	0.04	3.51	0.33	0.003	< 10	3	< 10
25692	1.0	< 0.5	286	71	< 2	163	10	11	7.25	< 10	23	< 1	< 10	5.09	18	85	0.91	0.07	0.89	0.39	0.005	< 10	1	< 10
25693	1.2	< 0.5	309	69	< 2	116	12	8	7.41	< 10	12	< 1	< 10	5.61	9	123	0.70	0.02	0.84	0.55	0.003	< 10	2	< 10
25694	0.9	< 0.5	250	64	< 2	145	17	17	6.88	< 10	94	< 1	< 10	4.56	19	345	1.23	0.32	1.66	0.44	0.002	< 10	2	< 10
25695	< 0.2	< 0.5	10	54	< 2	67	18	7	5.12	< 10	14	< 1	< 10	3.58	6	161	0.57	0.04	0.64	0.48	0.003	< 10	1	< 10
25696	< 0.2	< 0.5	5	40	< 2	80	26	7	5.88	< 10	19	< 1	< 10	4.03	6	251	0.57	0.09	0.84	0.48	0.002	< 10	1	< 10
25697	< 0.2	< 0.5	3	45	< 2	21	23	5	4.66	< 10	9	< 1	< 10	3.36	3	83	0.43	0.02	0.61	0.62	0.001	< 10	2	< 10
25698	0.9	0.5	212	122	< 2	122	13	12	3.33	< 10	6	< 1	< 10	2.80	14	87	0.96	0.01	0.80	0.18	0.012	< 10	2	< 10
25699	0.8	0.5	290	67	< 2	145	22	9	5.32	< 10	7	< 1	< 10	4.01	13	44	0.65	< 0.01	0.45	0.32	0.010	< 10	2	< 10
26000	1.0	1.0	8780	277	< 2	> 10000	< 2	39	0.45	< 10	9	< 1	< 10	0.38	687	29	31.7	0.11	0.15	0.07	0.046	< 10	3	< 10
25001	4.0	1.5	866	49	< 2	231	40	15	7.50	< 10	9	< 1	< 10	5.48	17	55	0.62	0.01	0.25	0.55	0.003	< 10	< 1	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25551	44	0.05	72	< 10	3	2	0.495
25662	44	0.02	27	< 10	2	1	0.028
25663	88	0.02	19	< 10	1	< 1	0.039
25664	63	0.02	24	< 10	< 1	< 1	0.040
25665	70	0.03	36	< 10	1	1	0.043
25656	84	0.03	23	< 10	< 1	< 1	0.033
25667	71	0.03	29	< 10	< 1	< 1	0.182
25668	66	0.03	29	< 10	< 1	< 1	0.068
25659	88	0.02	20	< 10	< 1	< 1	0.066
25660	2	< 0.01	< 1	< 10	1	6	0.018
25681	98	0.02	18	< 10	< 1	< 1	0.068
25662	97	0.02	16	< 10	< 1	< 1	0.082
25663	74	0.02	13	< 10	< 1	< 1	0.027
25664	78	0.01	9	< 10	2	< 1	0.025
25665	60	0.02	11	< 10	3	1	0.038
25666	50	0.02	17	< 10	1	< 1	0.072
25667	23	0.03	27	< 10	1	1	0.150
25668	34	0.02	26	< 10	1	1	0.166
25689	41	0.02	17	< 10	< 1	< 1	0.071
28378	6	0.04	42	< 10	15	8	0.113
23441	< 1	0.03	41	< 10	< 1	2	0.265
23442	< 1	0.02	72	16	< 1	2	0.201
23443	< 1	0.02	37	< 10	< 1	2	0.197
23444	< 1	0.02	26	< 10	< 1	1	0.113
23445	5	0.05	16	< 10	< 1	< 1	0.072
23446	52	0.02	11	< 10	< 1	< 1	0.080
23447	51	0.03	17	< 10	< 1	< 1	0.233
23448	65	0.03	17	< 10	< 1	< 1	0.032
23449	75	0.03	19	< 10	< 1	< 1	0.070
23450	16	0.10	62	< 10	16	19	6.100
25670	74	0.02	36	< 10	< 1	1	0.023
25671	94	0.01	11	< 10	< 1	< 1	0.057
25672	102	< 0.01	7	< 10	< 1	< 1	0.034
25673	132	0.01	12	< 10	< 1	< 1	0.058
25674	109	0.02	10	< 10	< 1	< 1	0.100
25675	114	0.02	13	< 10	< 1	< 1	0.090
25676	107	0.02	13	< 10	< 1	< 1	0.148
25677	98	0.02	12	< 10	< 1	< 1	0.139
25678	42	0.04	21	< 10	< 1	< 1	0.077
25679	52	0.04	24	< 10	< 1	< 1	0.109
25680	2	< 0.01	< 1	< 10	1	4	0.018
25681	95	0.01	10	< 10	< 1	< 1	0.038
23451	13	0.10	34	< 10	3	6	0.044
23452	104	0.02	12	< 10	< 1	< 1	0.048
23453	105	0.03	17	< 10	< 1	< 1	0.106
23454	108	0.02	14	< 10	< 1	< 1	0.068
23455	14	0.07	19	< 10	2	6	0.061
23456	118	0.04	22	< 10	1	1	0.053
23457	74	0.02	20	< 10	< 1	1	0.397
23458	74	0.01	13	< 10	< 1	< 1	0.246
23459	108	0.02	16	< 10	< 1	< 1	0.054
23460	3	< 0.01	< 1	< 10	1	6	0.008

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25682	83	0.01	12	< 10	< 1	< 1	0.032
25683	95	0.02	16	< 10	< 1	< 1	0.053
25684	108	< 0.01	6	< 10	< 1	< 1	0.083
25685	97	< 0.01	9	< 10	< 1	< 1	0.069
25686	95	< 0.01	8	< 10	< 1	< 1	0.037
25687	81	0.03	20	< 10	< 1	< 1	0.209
25688	98	0.02	15	< 10	< 1	< 1	0.090
25689	114	0.02	16	< 10	< 1	< 1	0.066
25690	70	0.02	35	< 10	< 1	1	0.483
25691	103	0.02	16	< 10	< 1	< 1	0.240
23481	119	0.02	17	< 10	< 1	< 1	0.076
23482	118	0.02	14	< 10	< 1	< 1	0.233
23483	15	0.11	88	< 10	4	3	0.124
23484	14	0.11	27	< 10	5	4	0.295
23485	30	0.10	21	< 10	8	4	0.105
23486	24	0.09	22	< 10	7	3	0.248
23487	19	0.16	60	< 10	11	4	0.848
23488	46	0.16	119	< 10	26	3	0.572
23489	20	0.10	70	< 10	9	3	1.842
23470	66	0.02	36	< 10	< 1	2	0.484
25692	95	0.02	11	< 10	< 1	< 1	0.143
25693	98	0.01	11	< 10	< 1	< 1	0.112
25694	65	0.04	33	< 10	< 1	< 1	0.072
25695	47	< 0.01	9	< 10	< 1	< 1	0.026
25696	57	0.01	21	< 10	< 1	< 1	0.025
25697	43	< 0.01	6	< 10	2	< 1	0.021
25698	23	< 0.01	12	< 10	< 1	< 1	0.109
25699	46	< 0.01	13	< 10	2	< 1	0.150
26000	14	0.09	67	< 10	16	17	6.610
26001	62	< 0.01	5	< 10	< 1	< 1	0.252

Activation Laboratories Ltd. Report: A08-2434

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.5	1.6	1120	799	14	32	962	615	0.35	348	393	<1	1390	0.77	8	5	24.3	0.02	0.13	0.08	0.038	81	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	< 0.5	6160	144	325	40	44	57	2.66	100	45	1	16	0.98	15	56	3.45	1.42	1.71	0.13	0.116	< 10	7	< 10
GXR-4 Cert	4.00	0.660	6020	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.6	4.4	82	1080	<2	16	757	553	3.71	16	1230	1	<10	0.85	10	27	2.18	0.57	0.56	0.27	0.056	37	5	< 10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.4	< 0.5	71	1040	<2	26	88	123	7.19	236	895	<1	<10	0.17	14	81	6.19	0.81	0.42	0.15	0.031	< 10	22	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2540			2280											5.93							
OREAS 13P Cert			2500			2280											7.58							
25655 Ong	0.2	< 0.5	145	181	< 2	70	< 2	17	6.81	< 10	13	< 1	< 10	4.58	13	195	1.57	0.02	1.28	0.68	0.005	< 10	3	< 10
25655 Dup	0.2	< 0.5	143	173	< 2	61	3	16	6.52	< 10	12	< 1	< 10	4.36	11	187	1.51	0.02	1.24	0.65	0.005	< 10	3	< 10
23443 Ong	< 0.2	0.5	166	288	< 2	537	2	49	3.88	< 10	7	< 1	< 10	0.08	72	133	4.76	< 0.01	5.28	0.01	0.011	< 10	< 1	< 10
23443 Dup	< 0.2	< 0.5	162	287	< 2	527	< 2	50	3.82	< 10	7	< 1	< 10	0.08	77	142	4.94	< 0.01	5.32	0.02	0.011	< 10	< 1	< 10
25675 Ong	0.4	< 0.5	143	80	< 2	121	3	7	7.03	< 10	8	< 1	< 10	5.32	15	75	0.91	0.02	0.67	0.34	0.006	< 10	2	< 10
25675 Dup	0.4	< 0.5	144	82	< 2	118	3	8	7.05	< 10	7	< 1	< 10	5.33	15	76	0.93	0.02	0.68	0.34	0.006	< 10	2	< 10
23458 Ong	< 0.2	< 0.5	200	126	< 2	77	3	6	5.36	< 10	25	< 1	< 10	3.89	15	87	1.10	0.03	0.78	0.43	0.006	< 10	3	< 10
23458 Dup	< 0.2	< 0.5	201	131	< 2	97	< 2	7	5.27	< 10	25	< 1	< 10	4.00	17	89	1.16	0.03	0.80	0.43	0.005	< 10	3	< 10
23468 Ong	1.4	0.8	584	298	< 2	113	14	48	3.48	< 10	116	< 1	< 10	1.15	17	61	3.15	0.41	2.52	0.16	0.015	< 10	5	< 10
23468 Dup	1.4	0.9	563	291	< 2	134	14	44	3.44	< 10	117	< 1	< 10	1.13	17	60	3.15	0.42	2.51	0.17	0.016	< 10	5	< 10
25001 Ong	3.8	1.3	866	41	< 2	229	46	14	7.51	< 10	9	< 1	< 10	5.44	17	54	0.61	0.01	0.26	0.56	0.003	< 10	< 1	< 10
25001 Dup	4.0	1.7	881	57	< 2	235	41	17	7.49	< 10	9	< 1	< 10	5.52	17	58	0.63	0.01	0.30	0.56	0.003	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	177		76	144	24	14	0.196
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	75		85	14	12	11	1.831
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	95		51	< 10	11	12	0.037
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	32		177	< 10	6	16	0.019
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
25655 Orig	30	0.02	20	< 10	< 1	< 1	0.070
25655 Dup	86	0.02	19	< 10	< 1	< 1	0.062
23443 Orig	< 1	0.02	36	< 10	< 1	2	0.193
23443 Dup	< 1	0.02	37	< 10	< 1	2	0.202
25675 Orig	114	0.02	12	< 10	< 1	< 1	0.089
25675 Dup	114	0.02	13	< 10	< 1	< 1	0.090
23456 Orig	72	0.01	13	< 10	< 1	< 1	0.228
23456 Dup	75	0.01	13	< 10	< 1	< 1	0.263
23468 Orig	25	0.05	22	< 10	7	3	0.254
23468 Dup	24	0.05	22	< 10	7	3	0.243
25001 Orig	81	< 0.01	5	< 10	< 1	< 1	0.256
25001 Dup	83	< 0.01	5	< 10	< 1	< 1	0.249
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 15-May-08
Invoice No.: A08-2438
Invoice Date: 11-Jun-08
Your Reference: DOSSIER 22237

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

90 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2438**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2438

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
24161	2.6	5.5	1440	345	<2	993	67	89	4.52	<10	7	<1	<10	3.32	58	243	5.86	0.01	3.41	0.10	0.007	<10	3	<10	
24162	1.3	4.5	237	342	<2	566	173	100	5.77	<10	6	<1	<10	4.24	47	260	4.34	0.02	2.69	0.13	0.007	<10	4	<10	
24183	2.1	3.0	1230	202	<2	525	258	210	7.28	<10	8	<1	<10	5.58	47	448	4.84	0.01	1.28	0.23	0.005	<10	3	<10	
23651	<0.2	<0.5	195	512	<2	162	5	33	3.08	<10	5	<1	<10	2.33	27	258	3.60	<0.01	2.75	0.04	0.012	<10	2	<10	
23652	0.4	<0.5	447	218	<2	143	4	22	4.84	<10	42	<1	<10	3.41	33	429	3.40	0.17	2.43	0.26	0.028	<10	5	<10	
23653	<0.2	<0.5	129	106	<2	66	4	8	5.30	<10	12	<1	<10	3.90	10	131	1.04	0.03	0.73	0.53	0.010	<10	2	<10	
23654	0.2	<0.5	35	152	<2	71	2	17	4.73	<10	21	<1	<10	2.59	11	260	1.93	0.09	1.76	0.26	0.004	<10	3	<10	
23655	0.4	<0.5	308	237	<2	220	3	19	5.36	<10	28	<1	<10	2.78	22	323	2.90	0.09	2.09	0.30	0.007	<10	4	<10	
23656	3.7	1.3	1580	442	<2	115	38	59	4.52	<10	90	<1	<10	1.77	20	111	4.71	0.36	3.13	0.11	0.024	<10	9	<10	
23667	1.5	<0.5	583	159	<2	246	31	17	4.63	<10	9	<1	<10	3.61	25	117	1.38	0.02	1.06	0.26	0.012	<10	2	<10	
23688	<0.2	0.8	31	792	<2	10	2	59	3.11	<10	93	<1	<10	0.79	17	57	4.66	0.35	2.58	0.06	0.096	<10	8	<10	
23689	<0.2	<0.5	10	896	<2	8	<2	94	3.44	<10	52	<1	<10	0.99	15	45	4.67	0.23	2.84	0.05	0.083	<10	9	<10	
23690	<0.2	<0.5	3	16	<2	1	11	<1	0.05	<10	7	<1	<10	0.18	<1	2	0.04	0.01	0.02	0.01	0.004	<10	<1	<10	
23691	<0.2	<0.5	3	596	<2	7	<2	70	2.42	<10	59	<1	<10	0.28	7	77	2.99	0.25	2.22	0.02	0.024	<10	4	<10	
23692	0.5	0.9	582	794	<2	73	10	10	317	2.69	<10	27	<1	<10	0.87	44	52	7.69	0.25	2.38	0.02	0.101	<10	7	<10
23693	1.4	1.7	1290	717	<2	37	5	353	2.78	<10	48	<1	<10	0.65	30	94	6.68	0.24	2.22	0.04	0.024	<10	6	<10	
23694	<0.2	<0.5	115	466	<2	10	7	123	2.47	<10	70	<1	<10	0.31	8	94	3.96	0.38	1.72	0.03	0.025	<10	3	<10	
23695	<0.2	<0.5	70	201	<2	261	<2	34	2.46	<10	5	<1	<10	0.53	33	106	2.81	<0.01	3.66	0.06	0.098	<10	1	<10	
25054	<0.2	0.7	44	183	<2	221	<2	30	2.49	<10	5	<1	<10	0.28	30	105	2.37	<0.01	3.09	0.03	0.008	<10	<1	<10	
25055	<0.2	0.5	13	232	<2	275	4	35	2.68	<10	5	<1	<10	0.52	38	68	3.27	<0.01	4.13	0.05	0.014	<10	1	<10	
28228	0.5	<0.5	136	125	<2	132	5	38	1.68	<10	15	<1	<10	0.80	26	104	1.98	0.04	0.97	0.16	0.002	<10	2	<10	
28229	1.8	0.9	697	166	<2	528	8	49	2.00	<10	12	20	<1	<10	0.96	75	129	3.36	0.03	1.14	0.21	0.003	<10	3	<10
28230	<0.2	<0.5	4	13	<2	<1	<2	<1	0.04	<10	8	<1	<10	0.18	<1	2	0.03	0.01	0.02	0.01	0.003	<10	<1	<10	
28231	1.5	1.0	638	144	<2	3320	6	48	1.68	<10	7	<1	<10	0.87	88	60	8.69	0.01	0.87	0.16	0.003	<10	2	<10	
28232	6.0	1.0	128	91	<2	7280	21	10	1.25	<10	5	<1	<10	0.79	357	87	15.2	0.02	0.63	0.17	0.004	<10	2	<10	
28233	<0.2	<0.5	70	157	<2	192	3	23	2.21	<10	9	<1	<10	1.22	22	106	2.27	0.01	1.07	0.24	0.004	<10	2	<10	
28234	<0.2	<0.5	93	121	<2	225	5	27	2.35	<10	11	<1	<10	1.01	22	144	2.75	0.02	1.30	0.25	0.004	<10	2	<10	
28235	1.6	0.9	597	110	<2	407	<2	41	1.79	<10	31	<1	<10	0.61	47	147	4.06	0.10	1.48	0.14	0.007	<10	3	<10	
28236	1.2	<0.5	476	101	<2	645	6	35	1.68	<10	33	<1	<10	0.72	85	142	4.51	0.11	1.69	0.16	0.009	<10	3	<10	
28237	0.4	<0.5	249	124	<2	171	6	34	2.34	<10	18	<1	<10	0.95	25	125	2.85	0.06	1.71	0.20	0.007	<10	3	<10	
28238	0.6	0.7	311	157	<2	362	4	34	2.88	<10	33	<1	<10	0.93	52	134	3.96	0.13	2.36	0.20	0.007	<10	5	<10	
28239	0.2	<0.5	80	121	<2	114	8	32	3.03	<10	22	<1	<10	1.08	20	129	2.47	0.08	1.94	0.25	0.006	<10	4	<10	
28240	0.6	<0.5	1410	309	<2	1540	7	25	5.82	<10	22	<1	<10	3.00	58	163	3.68	0.02	3.41	0.32	0.003	<10	3	<10	
28241	0.3	0.8	140	96	<2	168	14	85	3.78	<10	11	<1	<10	1.95	26	97	2.04	0.03	1.29	0.45	0.007	<10	3	<10	
28242	2.9	1.1	1290	130	<2	728	5	37	3.47	<10	13	<1	<10	1.29	100	108	5.13	0.03	1.75	0.28	0.007	<10	3	<10	
28243	4.9	1.3	2300	394	<2	1180	6	53	3.77	<10	12	<1	<10	0.43	85	44	8.82	0.04	3.80	0.07	0.009	<10	9	<10	
28244	0.5	<0.5	284	162	<2	386	5	38	2.80	<10	6	<1	<10	0.47	36	37	3.92	0.02	1.84	0.05	0.011	<10	4	<10	
28245	2.0	3.0	969	475	<2	1360	5	107	3.61	<10	10	<1	<10	0.55	279	59	11.1	0.05	3.57	0.07	0.008	<10	9	<10	
28246	13.1	1.1	7410	216	<2	3020	6	28	1.46	<10	7	<1	<10	0.49	161	30	18.5	0.03	1.24	0.04	0.024	<10	3	<10	
28247	4.2	1.3	2110	432	<2	3280	9	84	2.91	<10	16	<1	<10	0.55	272	47	18.7	0.03	2.94	0.04	0.009	<10	7	<10	
28248	4.1	2.1	1360	527	<2	776	40	55	5.61	<10	51	<1	<10	1.79	72	62	7.44	0.25	4.35	0.13	0.007	<10	10	<10	
28249	7.2	1.5	3440	397	<2	2090	27	73	4.07	<10	17	<1	<10	1.04	193	64	11.4	0.02	3.24	0.10	0.005	<10	7	<10	
28250	0.9	1.3	8780	281	<2	>10000	8	42	0.50	<10	4	<1	<10	0.38	554	32	33.3	0.11	0.17	0.07	0.049	<10	3	<10	
28251	7.51	1.2	3330	336	<2	4590	15	56	2.97	<10	10	<1	<10	0.40	162	56	16.5	0.26	3.03	0.06	0.005	<10	6	<10	
28252	5.5	1.2	2320	537	<2	1680	14	82	4.20	<10	21	<1	<10	0.88	52	82	10.8	0.24	4.37	0.01	0.011	<10	5	<10	
28253	5.1	12.8	973	724	<2	158	11	294	4.55	<10	12	<1	<10	0.47	25	109	5.66	0.06	5.44	0.05	0.003	<10	15	<10	
28254	80.1	30.8	8190	480	<2	206	906	111	2.28	<10	6	<1	<10	1.17	34	66	3.95	0.01	2.15	0.03	0.004	<10	6	<10	
28255	68.3	31.2	8520	413	<2	199	728	134	2.29	<10	6	<1	<10	1.29	33	84	3.51	0.01	1.95	0.04	0.003	<10	4	<10	
28256	80.2	31.4	6170	485	<2	207	1100	119	2.05	<10	7	<1	<10	1.02	35	76	3.83	0.01	2.15	0.03	0.003	<10	5	<10	
28257	4.2	2.1	439	222	<2	85	91	38	2.84	<10	53	<1	<10	0.74	12	50	2.33	0.19	2.06	0.12	0.010	<10	4	<10	
28258	3.1	1.9	370	157	<2	49	51	44	2.88	<10	72	<1	<10	0.39	7	83	1.89	0.26	1.73	0.13	0.009	<10	4	<10	
28259	9.4	3.6	1100	158	<2	86	47	71	2.66	<10	114	<1	<10	0.36	8	123	2.21	0.40	1.71	0.12	0.008	<10	3	<10	

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26250	< 0.2	< 0.5	4	13	< 2	< 1	< 2	< 1	0.04	< 10	3	< 1	< 10	0.18	< 1	< 2	0.03	0.01	0.02	0.01	0.004	< 10	< 1	< 10
26261	21.4	9.6	2360	144	< 2	83	36	114	2.19	< 10	99	< 1	< 10	0.34	20	87	2.11	0.33	1.40	0.11	0.006	< 10	3	< 10
26262	2.8	2.1	425	152	< 2	60	22	108	2.44	< 10	135	< 1	< 10	0.34	7	81	1.80	0.37	1.84	0.10	0.007	< 10	4	< 10
26263	2.8	1.6	695	279	< 2	81	17	134	2.77	< 10	70	< 1	< 10	0.77	8	55	2.52	0.24	2.11	0.10	0.008	< 10	4	< 10
26264	4.4	2.5	971	139	< 2	120	24	124	2.79	< 10	134	< 1	< 10	0.92	11	44	2.42	0.51	1.60	0.22	0.009	< 10	4	< 10
26265	16.1	2.6	3650	366	< 2	249	22	121	4.50	< 10	58	< 1	12	1.54	58	79	5.15	0.37	2.47	0.28	0.008	< 10	6	< 10
26266	1.0	0.6	367	141	< 2	52	8	42	2.61	< 10	31	< 1	< 10	0.71	8	59	2.05	0.10	0.98	0.18	0.010	< 10	2	< 10
26267	16.6	2.8	4190	806	< 2	684	24	199	3.67	< 10	17	< 1	< 10	0.67	102	91	11.0	0.32	2.82	0.10	0.010	< 10	11	< 10
26268	0.5	< 0.5	147	357	< 2	27	5	71	2.64	< 10	157	< 1	< 10	0.36	11	71	4.07	0.43	1.83	0.10	0.014	< 10	7	< 10
26269	0.3	0.6	163	370	< 2	17	6	87	3.06	< 10	264	< 1	< 10	0.22	14	76	4.40	0.60	1.70	0.10	0.016	< 10	10	< 10
26270	0.8	< 0.5	1370	305	< 2	1500	8	28	5.88	< 10	21	< 1	< 10	2.93	57	188	3.69	0.02	3.98	0.32	0.002	< 10	3	< 10
26271	0.5	< 0.5	256	382	< 2	20	5	93	2.66	< 10	204	< 1	< 10	0.30	15	62	5.07	0.56	1.77	0.09	0.024	< 10	9	< 10
26272	3.7	1.5	1160	267	< 2	16	7	112	4.02	< 10	202	< 1	< 10	1.36	14	83	3.99	0.66	2.09	0.26	0.016	< 10	6	< 10
26273	1.1	1.2	480	636	< 2	46	7	96	4.31	< 10	76	< 1	< 10	1.14	16	64	5.16	0.26	3.18	0.14	0.021	< 10	7	< 10
26274	4.4	1.3	1400	206	< 2	61	11	86	3.60	< 10	94	< 1	< 10	1.52	15	76	3.27	0.32	1.67	0.33	0.029	< 10	4	< 10
26275	3.9	2.8	1690	166	< 2	116	19	83	4.14	< 10	50	< 1	< 10	2.12	24	47	3.23	0.29	1.45	0.40	0.034	< 10	4	< 10
26276	1.6	1.0	870	115	< 2	114	12	52	4.24	< 10	27	< 1	< 10	2.85	20	68	2.14	0.15	0.73	0.31	0.040	< 10	2	< 10
26277	2.5	1.3	1160	183	< 2	96	14	94	5.68	< 10	113	< 1	< 10	3.23	18	70	3.26	0.49	1.97	0.27	0.033	< 10	6	< 10
26287	1.2	0.8	798	117	< 2	1340	28	18	5.82	< 10	19	< 1	< 10	4.13	96	103	4.84	0.02	0.70	0.46	0.005	< 10	3	< 10
26288	2.4	1.1	1500	78	< 2	523	23	27	5.67	< 10	23	< 1	< 10	4.06	89	127	2.70	0.08	0.60	0.46	0.009	< 10	1	< 10
26289	1.3	0.5	413	75	< 2	169	23	15	6.68	< 10	25	< 1	< 10	4.70	16	135	1.03	0.08	0.59	0.65	0.018	< 10	2	< 10
26290	0.6	< 0.5	1340	307	< 2	1460	4	27	6.01	< 10	20	< 1	< 10	3.01	57	161	3.51	0.02	3.28	0.32	0.003	< 10	3	< 10
26291	0.7	< 0.5	184	92	< 2	54	18	14	5.03	< 10	24	< 1	< 10	3.97	8	100	0.66	0.05	0.46	0.48	0.016	< 10	1	< 10
26292	2.3	< 0.5	662	134	< 2	217	24	17	6.66	< 10	16	< 1	< 10	6.19	24	74	1.39	0.01	0.64	0.53	0.008	< 10	3	< 10
26293	1.0	< 0.5	275	82	< 2	122	19	12	5.50	< 10	22	< 1	< 10	4.29	15	62	0.80	0.03	0.42	0.51	0.007	< 10	2	< 10
26294	3.2	1.4	1240	86	< 2	561	16	29	5.29	< 10	75	< 1	< 10	3.66	46	110	2.42	0.13	0.75	0.62	0.011	< 10	2	< 10
26295	1.9	0.8	906	96	< 2	533	12	28	4.81	< 10	88	< 1	< 10	3.29	35	121	2.50	0.18	0.85	0.46	0.013	< 10	2	< 10
26296	2.2	0.7	675	137	< 2	176	16	24	5.21	< 10	95	< 1	< 10	3.74	16	171	1.81	0.19	1.13	0.53	0.012	< 10	4	< 10
26297	0.4	< 0.5	471	194	< 2	14	< 2	72	2.62	< 10	53	< 1	< 10	0.51	12	89	2.75	0.17	1.62	0.13	0.008	< 10	2	< 10
26298	1.4	1.2	886	150	< 2	10	< 2	92	2.55	< 10	65	< 1	< 10	0.37	9	73	2.16	0.20	1.40	0.11	0.013	< 10	2	< 10
26299	5.1	5.8	4060	163	< 2	216	4	213	2.75	< 10	23	< 1	< 10	0.61	127	40	6.16	0.36	1.66	0.12	0.011	< 10	3	< 10
26300	< 0.2	< 0.5	9	14	< 2	< 1	2	< 1	0.04	< 10	7	< 1	< 10	0.17	< 1	2	0.04	0.01	0.02	0.01	0.003	< 10	< 1	< 10
26301	4.4	4.5	2860	452	< 2	226	3	359	3.74	< 10	47	< 1	< 10	0.92	121	37	7.37	0.21	3.66	0.06	0.008	< 10	6	< 10
26302	0.3	0.6	191	96	< 2	28	3	41	4.74	< 10	8	< 1	< 10	3.72	9	66	0.84	0.02	0.61	0.21	0.006	< 10	2	< 10
26303	8.4	2.9	2320	89	< 2	862	18	47	4.67	< 10	55	< 1	< 10	3.17	55	152	3.58	0.17	0.92	0.52	0.020	< 10	3	< 10
26304	10.3	2.7	2400	87	< 2	266	33	35	5.20	< 10	40	< 1	< 10	3.83	32	75	1.67	0.05	0.56	0.49	0.014	< 10	2	< 10
26305	0.2	< 0.5	83	160	< 2	63	32	21	5.94	< 10	21	< 1	< 10	4.17	9	102	1.29	0.02	0.95	0.60	0.009	< 10	3	< 10
26306	2.1	1.1	1060	87	< 2	964	30	16	4.75	< 10	21	< 1	< 10	3.72	55	79	3.71	0.01	0.51	0.46	0.013	< 10	2	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24181	35	0.01	30	< 10	1	2	1.192
24182	63	0.01	29	< 10	< 1	1	0.467
24183	111	< 0.01	53	< 10	< 1	1	0.902
23651	9	0.05	35	< 10	1	1	0.093
23652	43	0.08	94	< 10	2	1	0.249
23653	89	0.03	20	< 10	< 1	< 1	0.081
23654	42	0.04	31	< 10	2	1	0.023
23655	41	0.05	39	< 10	2	1	0.224
23656	17	0.14	77	< 10	12	2	0.240
23657	70	0.02	16	< 10	< 1	< 1	0.246
23688	15	0.20	58	< 10	15	6	0.199
23689	19	0.18	61	< 10	21	5	0.057
23690	2	< 0.01	< 1	< 10	1	5	0.008
23691	7	0.08	12	< 10	22	16	0.014
23692	7	0.16	64	< 10	14	5	1.650
23693	12	0.09	34	< 10	14	6	1.068
23694	10	0.07	9	< 10	25	13	0.223
23693	1	0.02	14	< 10	< 1	1	0.018
25054	< 1	0.01	10	< 10	< 1	< 1	0.009
25055	1	0.02	15	< 10	< 1	1	0.006
28228	20	0.03	74	< 10	< 1	< 1	0.203
28229	26	0.03	72	< 10	1	1	0.865
28230	2	< 0.01	< 1	< 10	1	5	0.006
28231	19	0.02	23	< 10	< 1	3	4.288
28232	21	0.02	39	< 10	< 1	5	9.151
28233	26	0.03	76	< 10	< 1	< 1	0.284
28234	27	0.03	92	< 10	< 1	< 1	0.312
28235	15	0.05	157	< 10	< 1	1	0.715
28236	18	0.05	166	< 10	< 1	1	1.227
28237	20	0.05	139	< 10	< 1	< 1	0.264
28238	19	0.06	129	< 10	1	1	0.701
28239	28	0.05	122	< 10	< 1	< 1	0.143
28240	69	0.02	34	< 10	< 1	1	0.507
28241	46	0.03	87	< 10	< 1	< 1	0.245
28242	33	0.03	106	< 10	< 1	2	1.749
28243	28	0.02	148	< 10	2	3	2.357
28244	19	0.02	103	< 10	1	1	0.874
28245	29	0.01	121	< 10	3	3	3.491
28246	14	0.03	136	< 10	< 1	6	6.116
28247	9	0.07	125	< 10	1	5	4.848
28248	47	0.03	104	< 10	2	2	1.403
28249	33	0.03	74	< 10	1	3	4.413
28250	15	0.09	63	< 10	16	16	10.51
28251	17	0.04	75	< 10	1	5	7.574
28252	23	0.03	82	< 10	2	3	3.293
28253	16	0.02	60	< 10	3	2	0.366
28254	12	0.04	43	< 10	< 1	1	1.281
28255	18	0.03	34	< 10	< 1	1	1.053
28256	8	0.04	47	< 10	< 1	2	1.026
28257	17	0.05	37	< 10	2	1	0.147
28258	13	0.05	18	< 10	2	1	0.094
28256	11	0.06	11	< 10	2	1	0.261

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28260	2	< 0.01	< 1	< 10	1	5	0.008
28261	10	0.06	8	< 10	2	2	0.500
28262	10	0.08	11	< 10	2	1	0.070
28263	10	0.05	9	< 10	3	1	0.137
28264	17	0.08	19	< 10	2	1	0.313
28265	29	0.05	32	< 10	3	2	1.368
28266	20	0.03	25	< 10	2	2	0.219
28267	12	0.09	96	< 10	8	4	3.533
28268	13	0.09	56	< 10	4	3	0.105
28269	10	0.12	64	< 10	3	5	0.190
28270	67	0.01	34	< 10	< 1	1	0.500
28271	12	0.11	56	< 10	4	4	0.308
28272	21	0.11	27	< 10	8	4	0.214
28273	19	0.11	55	< 10	15	4	0.129
28274	28	0.08	41	< 10	7	2	0.383
28275	29	0.07	28	< 10	8	2	0.871
28276	30	0.05	14	< 10	5	1	0.668
28277	35	0.10	22	< 10	6	1	0.456
28287	89	0.01	15	< 10	< 1	2	2.285
28288	73	0.02	15	< 10	< 1	1	1.263
28289	82	0.02	17	< 10	2	1	0.273
28290	67	0.02	34	< 10	< 1	1	0.499
28291	67	0.02	9	< 10	2	2	0.094
28292	114	0.02	16	< 10	1	< 1	0.375
28293	84	0.01	10	< 10	< 1	< 1	0.194
28294	60	0.03	16	< 10	< 1	1	0.989
28295	48	0.04	20	< 10	< 1	1	0.927
28296	48	0.05	31	< 10	< 1	< 1	0.304
28277	13	0.02	14	< 10	2	3	0.327
28278	11	0.04	13	< 10	3	3	0.195
28279	11	0.05	30	< 10	2	4	2.443
28280	2	< 0.01	< 1	< 10	1	5	0.010
28281	12	0.06	80	< 10	5	3	1.586
28282	48	< 0.01	11	< 10	2	< 1	0.098
28283	67	0.04	27	< 10	2	2	1.802
28284	83	0.02	12	< 10	< 1	1	0.725
28285	88	0.02	16	< 10	1	1	0.084
28286	82	0.01	12	< 10	< 1	2	1.746

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.1	1.7	937	757	14	36	846	593	0.64	317	398	<1	1310	0.83	8	6	22.6	0.03	0.16	0.08	0.036	74	1	23
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.4	0.5	644.0	147	342	41	44	56	2.63	102	30	2	14	1.02	17	58	3.60	1.47	1.60	0.12	0.125	<10	7	<10
GXR-4 Cert	4.00	0.660	650.0	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.5	4.5	78	1060	<2	17	764	561	3.78	14	1280	1	<10	0.88	11	27	2.12	0.96	0.56	0.28	0.055	35	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	<0.5	65	1110	<2	26	100	129	7.45	227	975	<1	<10	0.18	18	86	6.36	0.96	0.44	0.15	0.033	<10	24	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2300			2310											5.66							
OREAS 13P Cert			2500			2280											7.58							
2350C Ong	<0.2	<0.5	3	17	<2	<1	11	<1	0.05	<10	7	<1	<10	0.18	<1	2	0.04	0.01	0.02	0.01	0.004	<10	<1	<10
2366C Dup	<0.2	<0.5	3	14	<2	<1	12	<1	0.04	<10	7	<1	<10	0.18	<1	2	0.04	0.01	0.02	0.01	0.004	<10	<1	<10
28234 Ong	0.3	0.6	97	118	<2	218	6	27	2.34	<10	11	<1	<10	0.99	22	136	2.72	0.02	1.28	0.26	0.004	<10	2	<10
28234 Dup	<0.2	<0.5	90	123	<2	231	4	26	2.35	<10	11	<1	<10	1.03	21	148	2.78	0.02	1.32	0.26	0.004	<10	2	<10
28247 Ong	4.3	1.2	2170	447	<2	3390	7	68	2.58	<10	14	<1	<10	0.56	278	45	15.3	0.33	3.01	0.04	0.010	<10	7	<10
28247 Dup	4.1	1.3	2040	416	<2	3170	10	50	2.84	<10	17	<1	<10	0.55	265	44	16.2	0.32	2.65	0.04	0.009	<10	6	<10
28251 Ong	19.1	9.4	2630	146	<2	85	35	115	2.28	<10	100	<1	<10	0.35	19	89	2.14	0.33	1.42	0.12	0.006	<10	3	<10
28251 Dup	23.6	9.6	2460	142	<2	82	35	114	2.10	<10	98	<1	<10	0.34	21	85	2.09	0.33	1.39	0.11	0.006	<10	3	<10
25053 Ong	1.0	<0.5	271	90	<2	121	18	11	5.49	<10	22	<1	<10	4.32	13	64	0.80	0.03	0.42	0.51	0.007	<10	2	<10
25093 Dup	1.0	<0.5	279	75	<2	123	19	12	5.50	<10	22	<1	<10	4.26	17	60	0.79	0.03	0.42	0.51	0.006	<10	2	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	175		72	121	22	18	0.180
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	77		89	12	12	11	1.915
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	94		51	< 10	11	12	0.036
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	34		189	< 10	7	12	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
23550 Orig	2	< 0.01	< 1	< 10	1	5	0.009
23660 Dup	2	< 0.01	< 1	< 10	1	5	0.008
28234 Orig	27	0.03	89	< 10	< 1	< 1	0.309
28234 Dup	27	0.03	94	< 10	< 1	< 1	0.315
28247 Orig	9	0.07	130	< 10	1	5	5.450
28247 Dup	9	0.07	120	< 10	1	5	3.845
28251 Orig	10	0.06	8	< 10	2	1	0.496
28251 Dup	10	0.06	8	< 10	2	2	0.501
25053 Orig	84	0.01	10	< 10	< 1	< 1	0.191
25053 Dup	83	0.01	10	< 10	< 1	< 1	0.197
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 15-May-08
Invoice No.: A08-2439
Invoice Date: 23-Jun-08
Your Reference: DOSSIER 22238

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

92 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2439**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

Note: insufficient sample

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2439

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
25056	< 0.2	0.6	32	278	< 2	452	3	45	3.71	< 10	6	< 1	< 10	0.43	55	127	4.08	< 0.01	5.02	0.04	0.012	< 10	< 1	< 10	
25057	< 0.2	< 0.5	44	343	< 2	364	< 2	42	3.69	< 10	15	< 1	< 10	1.32	48	136	3.87	0.02	4.75	0.06	0.008	< 10	2	< 10	
25058	0.2	< 0.5	162	130	< 2	77	3	11	7.10	< 10	50	< 1	< 10	6.51	13	209	1.35	0.03	0.95	0.79	0.007	< 10	5	< 10	
25059	< 0.2	< 0.5	12	93	< 2	69	2	14	6.15	< 10	70	< 1	< 10	4.60	13	256	1.36	0.16	1.15	0.57	0.007	< 10	2	< 10	
25060	< 0.2	< 0.5	4	15	< 2	< 1	2	< 1	0.05	< 10	10	< 1	< 10	0.20	< 1	3	0.04	0.02	0.02	0.02	0.004	< 10	< 1	< 10	
25061	< 0.2	< 0.5	35	75	< 2	85	4	11	6.57	< 10	48	< 1	< 10	5.06	11	205	1.00	0.11	0.77	0.61	0.006	< 10	2	< 10	
25062	< 0.2	< 0.5	53	152	< 2	105	< 2	21	6.99	< 10	102	< 1	< 10	4.27	20	376	2.38	0.28	2.14	0.61	0.006	< 10	4	< 10	
25063	< 0.2	< 0.5	97	310	< 2	136	2	28	5.88	< 10	44	< 1	< 10	4.10	24	408	3.18	0.10	2.60	0.41	0.004	< 10	5	< 10	
25064	< 0.2	< 0.5	106	167	< 2	74	3	13	6.63	< 10	22	< 1	< 10	4.89	12	267	1.64	0.23	1.31	0.64	0.008	< 10	3	< 10	
25065	< 0.2	< 0.5	76	217	< 2	96	3	21	6.89	< 10	26	< 1	< 10	4.66	16	443	2.29	0.04	1.90	0.73	0.006	< 10	4	< 10	
25066	< 0.2	< 0.5	118	113	< 2	84	3	9	8.69	< 10	15	< 1	< 10	4.88	10	104	1.03	0.02	0.75	0.56	0.009	< 10	1	< 10	
25067	0.4	< 0.5	141	61	< 2	119	5	12	7.85	< 10	21	< 1	< 10	5.86	12	111	0.74	0.04	0.50	0.62	0.010	< 10	1	< 10	
25068	0.8	< 0.5	580	90	< 2	103	< 2	21	4.62	< 10	118	< 1	< 10	2.23	22	220	1.91	0.29	1.49	0.35	0.006	< 10	3	< 10	
25069	0.2	< 0.5	223	239	< 2	77	6	31	4.80	< 10	90	< 1	< 10	3.12	25	137	3.13	0.42	1.65	0.26	0.019	< 10	9	< 10	
25070	0.7	< 0.5	1360	329	< 2	150	12	29	6.22	< 10	25	< 1	< 10	3.25	58	176	3.72	0.02	3.63	0.35	0.003	< 10	3	< 10	
25071	0.3	< 0.5	292	242	< 2	96	6	30	5.24	< 10	23	< 1	< 10	3.98	27	79	2.63	0.10	1.16	0.21	0.031	< 10	6	< 10	
25072	0.3	< 0.5	228	350	< 2	102	5	29	4.84	< 10	10	< 1	< 10	4.11	30	102	3.16	0.23	1.39	0.27	0.028	< 10	8	< 10	
25073	< 0.2	< 0.5	295	182	< 2	85	4	14	5.69	< 10	11	< 1	< 10	4.62	25	61	1.96	0.02	0.68	0.37	0.032	< 10	5	< 10	
25074	0.7	< 0.5	815	308	< 2	82	4	75	4.90	< 10	112	< 1	< 10	3.10	21	100	3.67	0.53	1.81	0.24	0.022	< 10	8	< 10	
25075	1.1	0.6	945	185	4	68	5	111	4.04	< 10	108	< 1	< 10	1.52	23	42	4.72	0.83	1.60	0.19	0.013	< 10	4	< 10	
25076	1.3	1.4	1110	263	< 2	13	5	102	4.25	< 10	108	< 1	< 10	1.57	11	67	3.11	0.42	1.64	0.21	0.013	< 10	3	< 10	
25078	4.8	1.0	2750	276	< 2	579	24	44	3.74	< 10	46	< 1	< 10	3.03	55	153	3.23	0.11	1.41	0.16	0.008	< 10	4	< 10	
25098	0.8	< 0.5	510	251	< 2	216	12	40	5.69	< 10	79	< 1	< 10	3.77	38	245	2.71	0.33	1.61	0.44	0.014	< 10	7	< 10	
25099	4.9	1.9	1800	304	< 2	864	22	64	4.85	< 10	30	< 1	< 10	3.80	49	112	4.26	0.09	1.41	0.39	0.011	< 10	6	< 10	
25100	1.0	1.4	7520	320	< 2	> 10000	8	44	0.50	< 10	4	< 1	< 10	0.39	553	33	30.6	0.11	0.17	0.07	0.046	< 10	4	< 10	
25165	3.9	1.7	1470	276	< 2	630	16	61	4.64	< 10	65	< 1	< 10	2.94	49	187	4.23	0.40	1.82	0.63	0.014	< 10	6	< 10	
25155	5.9	2.7	1990	189	< 2	1400	10	127	2.71	< 10	7	< 1	< 10	0.27	132	218	5.36	0.01	3.60	0.03	0.007	< 10	< 1	< 10	
25157	8.5	3.3	2310	209	< 2	1420	11	107	2.69	< 10	12	< 1	< 10	0.34	174	294	5.92	0.05	3.63	0.04	0.008	< 10	1	< 10	
25158	4.2	1.7	1300	303	< 2	1160	22	80	2.69	< 10	13	< 1	< 10	1.02	108	243	6.03	0.06	3.70	0.09	0.007	< 10	4	< 10	
25159	15.9	4.4	3670	244	< 2	1170	14	116	2.57	< 10	25	< 1	< 10	0.59	94	366	6.49	0.17	3.78	0.05	0.010	< 10	2	< 10	
25160	< 0.2	< 0.5	8	16	< 2	2	3	< 1	0.05	< 10	9	< 1	< 10	0.19	< 1	3	0.04	0.02	0.02	0.02	0.004	< 10	< 1	< 10	
25161	12.3	2.3	4060	282	< 2	1780	11	80	2.38	< 10	112	< 1	< 10	0.98	112	588	8.21	0.14	3.85	0.07	0.014	< 10	3	< 10	
28278	< 2	2.3	2310	261	< 2	124	9	113	5.75	< 10	22	< 1	< 10	2.86	24	42	4.33	0.41	2.41	0.26	0.033	< 10	6	< 10	
28279	0.7	0.5	382	151	< 2	32	8	67	3.48	< 10	70	< 1	< 10	1.27	8	87	2.15	0.28	1.51	0.23	0.011	< 10	3	< 10	
28280	< 0.2	< 0.5	4	19	< 2	< 1	2	< 1	0.05	< 10	10	< 1	< 10	0.19	< 1	3	0.04	0.02	0.02	0.02	0.004	< 10	< 1	< 10	
28281	2.7	1.3	1210	219	< 2	192	15	124	3.20	< 10	86	< 1	< 10	1.23	26	64	4.40	0.47	1.60	0.21	0.024	< 10	5	< 10	
28282	8.0	5.0	4040	225	< 2	229	16	182	4.63	< 10	44	< 1	< 10	2.77	23	91	6.97	0.67	1.69	0.29	0.048	< 10	6	< 10	
28283	5.8	2.3	3960	193	< 2	390	13	130	3.69	< 10	31	< 1	< 10	2.02	74	40	6.69	0.55	1.73	0.24	0.044	< 10	6	< 10	
78284	4.7	2.2	1660	226	< 2	239	19	118	4.16	< 10	93	< 1	< 10	2.36	39	116	4.12	0.46	2.03	0.32	0.032	< 10	6	< 10	
28285	2.0	1.1	1680	144	< 2	1120	24	85	4.78	< 10	26	< 1	< 10	2.58	103	129	7.07	0.33	1.78	0.48	0.31	0.009	< 10	4	< 10
28286	1.6	1.5	1340	191	< 2	764	25	114	4.43	< 10	35	< 1	< 10	1.87	79	120	6.39	0.33	2.17	0.35	0.009	< 10	5	< 10	
28287	1.1	< 0.5	682	140	< 2	379	18	73	3.99	< 10	77	< 1	< 10	1.37	54	127	4.51	0.99	2.47	0.30	0.019	< 10	6	< 10	
25162	14.3	4.0	4260	280	< 2	1620	72	75	3.18	< 10	13	< 1	< 10	2.04	106	184	6.41	0.06	2.39	0.14	0.008	< 10	3	< 10	
25163	3.6	1.6	1020	246	< 2	1640	102	39	5.71	< 10	8	< 1	< 10	4.16	65	230	5.41	0.03	1.70	0.30	0.007	< 10	4	< 10	
25184	5.8	2.4	1610	183	< 2	830	101	39	5.11	< 10	10	< 1	< 10	4.11	89	163	3.18	0.02	1.29	0.39	0.008	< 10	4	< 10	
25165	12.9	3.6	2320	193	< 2	1700	109	41	4.19	< 10	11	< 1	< 10	3.20	142	140	5.70	0.02	1.17	0.49	0.008	< 10	5	< 10	
78166	6.4	1.4	1280	168	< 2	977	98	24	4.23	< 10	10	< 1	< 10	3.12	98	93	3.63	0.01	0.62	0.60	0.008	< 10	3	< 10	
25187	8.9	2.7	1790	279	< 2	1190	132	35	4.74	< 10	9	< 1	< 10	3.48	78	149	4.87	0.01	1.42	0.48	0.007	< 10	5	< 10	
25168	12.9	4.7	2590	277	< 2	1920	122	59	4.61	< 10	13	< 1	< 10	2.93	55	306	5.13	0.04	2.85	0.19	0.009	< 10	3	< 10	
25169	13.5	5.0	2340	286	< 2	1180	178	80	4.40	< 10	10	< 1	< 10	2.48	70	370	4.52	0.03	3.63	0.15	0.007	< 10	3	< 10	
25170	0.7	< 0.5	1450	333	< 2	1530	5	28	6.39	< 10	26	< 1	< 10	3.24	59	178	3.84	0.02	3.61	0.36	0.003	< 10	4	< 10	
25171	11.2	4.3	2180	248	< 2	1370	147	53	5.34	< 10	15	< 1	< 10	3.91	61	329	4.04	0.06	2.12	0.22	0.008	< 10	2	< 10	

Activation Laboratories Ltd. Report: A08-2439

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
26288	0.6	0.6	299	104	<2	429	14	85	3.10	<10	72	<1	<10	0.60	44	165	3.13	0.35	2.19	0.16	0.014	<10	4	<10	
26289	2.4	2.2	1860	161	<2	861	16	93	3.64	<10	50	<1	<10	0.70	133	145	5.92	0.50	3.11	0.16	0.011	<10	6	<10	
26290	1.0	1.3	8300	323	<2	>10000	7	44	0.49	<10	4	<1	<10	0.41	559	33	33.1	0.11	0.18	0.07	0.048	<10	4	<10	
26291	2.7	2.6	2180	292	<2	829	23	259	4.21	<10	26	<1	<10	0.75	88	141	6.35	0.48	3.75	0.13	0.015	<10	9	<10	
26292	8.5	3.5	6100	471	<2	1130	15	456	3.74	<10	37	<1	<10	0.57	76	100	12.4	0.25	3.28	0.09	0.018	<10	8	<10	
26293	4.4	2.8	3250	232	<2	1540	78	308	3.13	<10	19	<1	<10	1.29	103	154	93	12.3	0.32	1.58	0.27	0.021	<10	5	<10
26294	8.9	15.8	6360	263	<2	5080	88	762	2.18	<10	7	<1	<10	0.67	217	78	28.7	0.15	1.00	0.12	0.013	<10	2	<10	
26295	22.2	17.9	>10000	216	<2	3710	361	887	1.44	<10	6	<1	41	0.39	1140	96	28.2	0.09	0.66	0.04	0.010	<10	2	<10	
26296	11.0	12.8	7060	272	<2	2270	95	1070	1.69	<10	7	<1	<10	0.38	352	132	15.6	0.28	1.29	0.03	0.031	<10	5	13	
26297	2.0	2.7	1620	497	<2	202	104	554	3.65	<10	114	<1	<10	2.03	21	60	5.86	0.48	2.26	0.16	0.033	<10	6	<10	
26298	18.4	16.3	9290	322	<2	1950	64	6520	2.25	<10	10	<1	<10	1.02	59	111	14.5	0.44	1.57	0.03	0.193	<10	8	15	
26299	6.2	14.8	2560	384	<2	2710	59	7790	2.62	<10	14	<1	<10	1.07	168	101	15.9	0.60	1.66	0.03	0.127	<10	6	13	
26300	0.9	1.3	8220	310	<2	>10000	5	42	0.63	<10	6	<1	<10	0.41	536	31	31.3	0.11	0.17	0.08	0.046	<10	4	<10	
26301	10.4	5.2	6780	301	<2	7020	58	388	1.09	<10	6	<1	<10	0.69	801	62	33.3	0.05	0.69	0.01	0.010	11	2	10	
26302	12.5	6.4	9040	315	<2	7470	85	311	1.03	<10	5	<1	<10	0.18	649	81	40.4	0.06	0.68	0.01	0.008	14	2	<10	
26303	16.4	5.3	>10000	374	<2	6970	49	251	1.69	<10	8	<1	<10	0.38	184	149	35.6	0.17	1.17	0.01	0.012	<10	4	<10	
26304	9.7	7.1	6610	395	<2	3620	48	508	2.10	<10	20	<1	<10	0.41	113	101	22.4	0.27	1.79	0.03	0.030	<10	6	<10	
26305	4.3	2.3	2060	393	>	223	20	211	2.77	<10	99	<1	<10	0.31	24	76	5.23	0.52	2.08	0.04	0.046	<10	6	<10	
26306	<0.2	<0.5	76	414	<2	43	3	77	3.60	<10	275	<1	<10	0.34	17	90	4.47	0.74	2.47	0.06	0.092	<10	9	<10	
26307	<0.2	0.8	46	466	<2	15	2	70	3.87	<10	162	<1	<10	0.49	15	62	4.97	0.54	3.01	0.07	0.072	<10	8	<10	
25172	8.6	4.4	1780	175	<2	760	214	44	7.68	<10	13	<1	<10	5.53	48	242	2.71	0.05	1.48	0.34	0.086	<10	3	<10	
25173	8.4	4.2	1550	162	<2	749	213	44	6.74	<10	13	<1	<10	5.29	51	224	2.50	0.06	1.42	0.29	0.007	<10	2	<10	
25174	13.9	6.7	3390	264	<2	917	174	69	6.04	<10	7	<1	<10	5.10	55	303	4.02	0.02	1.62	0.29	0.004	<10	5	<10	
25175	49.2	13.9	>10000	511	<2	673	227	111	4.99	<10	5	<1	<10	4.33	42	327	6.36	0.01	3.01	0.14	0.006	<10	7	<10	
25176	15.3	9.9	3360	451	<2	739	241	88	5.57	<10	6	<1	<10	4.86	56	365	4.97	0.02	2.62	0.20	0.004	<10	7	<10	
25177	7.2	12.4	1720	493	<2	1260	126	170	3.64	<10	6	<1	<10	2.48	51	286	5.22	0.01	2.94	0.13	0.006	<10	4	<10	
25178	11.1	9.8	2850	318	<2	1500	108	187	3.83	<10	5	<1	<10	1.93	122	257	5.57	0.01	3.33	0.12	0.008	<10	3	<10	
25179	14.7	7.5	2560	324	<2	1210	248	250	3.62	<10	6	<1	<10	1.49	67	223	4.89	0.01	3.58	0.06	0.009	<10	2	<10	
25180	<0.2	<0.5	9	14	<2	3	2	<1	0.05	<10	9	<1	<10	0.18	<1	3	0.04	0.02	0.02	0.01	0.004	<10	<1	<10	
25181	6.8	7.2	1600	391	<2	967	191	154	4.72	<10	9	<1	<10	2.74	59	198	4.47	0.02	3.03	0.16	0.010	<10	3	<10	
26308	<0.2	0.5	90	506	<2	32	4	54	3.91	<10	69	<1	<10	0.43	22	67	5.92	0.27	3.68	0.03	0.086	<10	8	<10	
26309	<0.2	0.7	26	721	<2	17	<2	98	4.38	<10	43	<1	<10	0.33	17	75	6.44	0.20	4.53	0.02	0.078	<10	8	<10	
26310																									
26311	<0.2	0.6	6	695	<2	9	<2	95	3.96	<10	50	<1	<10	0.35	16	60	5.45	0.23	4.20	0.02	0.087	<10	8	<10	
26312	<0.2	0.6	8	762	<2	11	<2	94	4.13	<10	54	<1	<10	0.39	19	69	5.90	0.24	4.30	0.02	0.086	<10	8	<10	
26313	<0.2	<0.5	5	798	<2	11	<2	99	4.63	<10	48	<1	<10	0.34	15	69	5.96	0.22	4.66	0.02	0.089	<10	9	<10	
26314	<0.2	1.1	7	700	>	10	<2	94	4.13	<10	32	<1	<10	0.32	18	46	5.56	0.14	4.22	0.01	0.083	<10	8	<10	
26315	<0.2	0.7	10	709	<2	13	<2	89	4.24	<10	30	<1	<10	0.35	18	50	5.53	0.14	4.05	0.01	0.083	<10	7	<10	
26316	<0.2	0.5	5	712	<2	12	3	87	3.66	<10	36	<1	<10	0.39	18	97	5.84	0.19	4.22	0.01	0.079	<10	7	<10	
26317	<0.2	0.9	2	792	<2	28	9	118	5.11	<10	17	<1	<10	0.45	19	42	7.31	0.07	5.77	0.01	0.121	<10	7	<10	

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25055	5	0.03	20	< 10	< 1	1	0.069
25067	27	0.03	21	< 10	< 1	1	0.024
25088	93	0.03	27	< 10	1	< 1	0.038
25088	72	0.04	25	< 10	< 1	< 1	0.038
25080	3	< 0.01	< 1	< 10	1	6	0.009
25081	74	0.03	21	< 10	< 1	< 1	0.075
25082	71	0.06	53	< 10	1	< 1	0.075
25083	49	0.05	49	< 10	2	1	0.066
25084	70	0.04	26	< 10	< 1	< 1	0.055
25085	60	0.06	41	< 10	1	< 1	0.043
25088	84	0.02	10	< 10	< 1	< 1	0.079
25087	95	0.01	10	< 10	< 1	< 1	0.132
25088	34	0.05	43	< 10	2	2	0.332
25089	51	0.13	92	< 10	4	2	0.285
25070	71	0.02	36	< 10	< 1	1	0.501
25071	62	0.07	64	< 10	3	1	0.428
25072	66	0.10	71	< 10	4	2	0.459
25073	88	0.06	40	< 10	3	< 1	0.486
25074	37	0.13	82	< 10	5	3	0.291
25075	21	0.11	28	< 10	2	5	0.943
25076	20	0.07	20	< 10	4	5	0.272
25067	38	0.08	35	< 10	1	2	1.477
25086	65	0.10	61	< 10	3	1	0.337
25089	49	0.05	37	< 10	2	3	1.530
25100	14	0.10	62	< 10	16	19	9.008
25155	57	0.07	42	< 10	2	3	1.704
25158	1	0.02	24	< 10	< 1	2	1.768
25157	1	0.03	26	< 10	< 1	2	2.124
25158	4	0.05	33	< 10	< 1	2	1.606
25159	2	0.05	35	< 10	< 1	2	1.814
25160	2	< 0.01	< 1	< 10	1	6	0.010
25181	2	0.09	53	< 10	1	3	2.730
28276	34	0.11	27	< 10	6	2	0.815
28279	23	0.07	16	< 10	3	4	0.126
28280	3	< 0.01	< 1	< 10	1	6	0.009
28281	21	0.08	32	< 10	4	4	1.100
28282	37	0.12	26	< 10	7	3	1.713
28283	20	0.11	33	< 10	5	3	2.439
28284	24	0.12	47	< 10	6	3	0.930
28285	28	0.07	73	< 10	1	2	2.788
28285	27	0.07	81	< 10	3	3	2.245
28287	19	0.10	107	< 10	3	2	1.014
25182	29	0.03	27	< 10	< 1	3	2.585
25183	78	0.03	26	< 10	1	2	2.026
25184	90	0.02	21	< 10	< 1	1	1.238
25185	77	0.02	25	< 10	< 1	2	2.498
25186	71	0.02	21	< 10	< 1	2	1.716
25187	74	0.03	35	< 10	1	2	1.908
25188	52	0.04	26	< 10	< 1	2	1.566
25189	39	0.03	24	< 10	< 1	2	0.990
25170	73	0.02	37	< 10	< 1	1	0.502
25171	78	0.04	22	< 10	< 1	1	1.376

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26288	12	0.10	89	< 10	2	2	0.511
26289	17	0.08	87	< 10	2	2	1.722
26290	15	0.11	84	< 10	16	19	10.13
26291	19	0.10	114	< 10	4	3	2.126
26292	17	0.07	127	< 10	5	4	2.860
26293	23	0.08	103	< 10	3	4	4.437
26294	11	0.04	86	< 10	3	6	6.925
26295	13	0.03	107	< 10	2	7	7.866
26296	6	0.10	61	11	7	12	6.992
26297	19	0.16	36	< 10	25	16	0.658
26298	8	0.12	59	81	10	6	6.200
26299	4	0.15	60	71	7	6	5.992
26300	16	0.10	61	< 10	16	19	9.172
26301	3	0.04	96	10	2	10	8.092
26302	3	0.04	92	< 10	2	10	6.154
26303	4	0.05	129	< 10	3	9	7.062
26304	6	0.10	79	< 10	10	11	6.064
26305	6	0.09	32	< 10	10	10	0.906
26306	10	0.11	89	< 10	11	8	0.124
26307	17	0.13	53	< 10	14	9	0.033
26172	114	0.03	20	< 10	1	1	0.826
26173	109	0.03	17	< 10	< 1	1	0.796
26174	101	0.03	29	< 10	1	2	1.462
26175	50	0.03	48	< 10	1	2	1.477
26176	70	0.03	46	< 10	1	2	1.100
26177	22	0.04	31	< 10	1	2	1.343
26178	20	0.03	23	< 10	< 1	2	1.764
26179	11	0.02	22	< 10	< 1	2	1.242
26180	2	< 0.01	< 1	< 10	1	6	0.012
26181	37	0.04	27	< 10	1	2	1.048
26308	5	0.12	67	< 10	18	8	0.766
26309	3	0.08	84	< 10	17	7	0.131
26310							
26311	4	0.08	67	< 10	20	8	0.118
26312	4	0.11	68	< 10	28	9	0.152
26313	3	0.08	74	< 10	17	6	0.059
26314	3	0.08	86	< 10	13	7	0.198
26315	3	0.09	63	< 10	12	9	0.246
26316	3	0.12	61	< 10	14	10	0.341
26317	2	0.09	82	< 10	14	7	0.342

Activation Laboratories Ltd. Report: A08-2439

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.3	1.6	990	748	13	29	841	589	0.46	316	248	<1	1310	0.84	7	6	22.4	0.03	0.15	0.07	0.033	71	1	22
GXR-1 Cert	31.0	3.3	1110	852	18	41	730	760	3.52	427	750	1	1380	0.96	8	12	23.6	0.05	0.22	0.05	0.065	122	2	54
GXR-4 Meas	3.5	< 0.5	6070	150	350	43	46	72	2.6C	104	30	1	16	1.04	18	58	3.46	1.35	1.75	0.11	0.123	< 10	7	< 10
GXR-4 Cert	4.0	0.6	6620	166	310	42	62	73	2.2C	98	1640	2	16	1.01	15	64	3.09	4.01	1.65	0.65	0.120	5	8	6
GXR-2 Meas	17.3	4.1	66	995	<2	16	707	512	3.05	15	1220	1	<10	0.80	10	23	2.04	0.51	0.51	0.23	0.053	32	5	< 10
GXR-2 Cert	17.0	4.1	78	1007	2	21	890	530	16.50	25	2240	2	1	0.93	9	35	1.86	1.37	0.85	0.56	0.105	49	7	2
GXR-6 Meas	0.3	< 0.5	63	1050	< 2	25	90	118	6.50	228	910	< 1	< 10	0.17	16	82	6.45	0.87	0.41	0.13	0.032	< 10	22	< 10
GXR-6 Cert	1.3	1.0	66	1007	2	27	101	118	17.70	330	1300	1	0	0.18	14	95	5.58	1.87	0.51	0.10	0.035	4	28	2
OREAS 13P Meas			2500				2430										6.32							
OREAS 13P Cert			2500				2261										7.58							
25058 Ong	0.7	< 0.5	580	100	< 2	105	2	20	4.44	< 10	123	< 1	< 10	2.30	21	231	1.98	0.30	1.54	0.34	0.007	< 10	3	< 10
25058 Dup	0.9	< 0.5	611	81	< 2	101	< 2	21	4.6C	< 10	114	< 1	< 10	2.16	23	210	1.85	0.28	1.43	0.36	0.006	< 10	3	< 10
25155 Ong	5.8	2.6	2040	185	< 2	1390	10	106	2.76	< 10	7	< 1	< 10	0.27	133	214	5.29	0.01	3.44	0.03	0.007	< 10	< 1	< 10
25155 Dup	6.0	2.7	1960	192	< 2	1410	11	138	2.87	< 10	7	< 1	< 10	0.28	131	221	5.42	0.01	3.67	0.03	0.008	< 10	1	< 10
28285 Ong	2.1	1.2	1670	145	< 2	1140	24	85	4.75	< 10	27	< 1	< 10	2.64	56	130	7.24	0.34	1.51	0.31	0.009	< 10	4	< 10
28285 Dup	2.0	1.1	1690	143	< 2	1100	25	85	4.78	< 10	26	< 1	< 10	2.48	104	128	5.90	0.32	1.45	0.30	0.008	< 10	4	< 10
28289 Ong	2.4	2.3	1880	164	< 2	863	15	94	3.57	< 10	53	< 1	< 10	0.71	138	145	5.97	0.50	3.13	0.15	0.012	< 10	6	< 10
28289 Dup	2.4	2.1	1820	159	< 2	840	18	91	3.50	< 10	47	< 1	< 10	0.68	129	146	5.87	0.50	3.08	0.15	0.011	< 10	6	< 10
25175 Ong	15.3	9.5	3340	447	< 2	741	243	88	5.48	< 10	6	< 1	< 10	4.82	54	361	4.98	0.02	2.51	0.20	0.004	< 10	7	< 10
25175 Dup	15.2	10.1	3360	455	< 2	737	239	89	5.65	< 10	6	< 1	< 10	4.89	59	370	4.95	0.02	2.52	0.21	0.004	< 10	7	< 10
28315 Ong	< 0.2	0.5	6	728	2	15	4	90	4.15	< 10	36	< 1	< 10	0.40	19	89	5.95	0.20	4.32	0.02	0.081	< 10	7	< 10
28315 Dup	< 0.2	0.5	5	695	< 2	11	2	85	3.77	< 10	35	< 1	< 10	0.38	18	85	5.73	0.19	4.13	0.01	0.078	< 10	7	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	148		72	121	22	18	0.174
GXR-1 Cert	275		80	164	32	38	0.257
GXR-4 Meas	57		89	13	12	10	1.940
GXR-4 Cert	221		87	31	14	186	1.770
GXR-2 Meas	89		46	< 10	10	12	0.034
GXR-2 Cert	180		52	2	17	289	0.031
GXR-6 Meas	31		178	< 10	6	12	0.016
GXR-6 Cert	35		186	2	14	110	0.016
OREAS 13P Meas							
OREAS 13P Cert							
25058 Orig	35	0.05	45	< 10	2	2	0.333
25058 Dup	33	0.05	42	< 10	2	2	0.331
25155 Orig	1	0.02	24	< 10	< 1	2	1.769
25155 Dup	1	0.02	24	< 10	< 1	2	1.767
28285 Orig	28	0.07	73	< 10	1	3	2.889
28285 Dup	26	0.07	72	< 10	1	2	2.688
28289 Orig	18	0.08	88	< 10	2	2	1.756
28289 Dup	17	0.08	87	< 10	2	2	1.688
25178 Orig	69	0.03	46	< 10	1	2	1.089
25178 Dup	70	0.03	46	< 10	1	2	1.111
28316 Orig	3	0.12	63	< 10	14	11	0.353
28316 Dup	3	0.12	60	< 10	14	10	0.328
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 26-May-08
Invoice No.: A08-2667
Invoice Date: 24-Jul-08
Your Reference: DOSSIER #22242

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

90 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2667**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2667 rev 1

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
28424	2.6	3.1	1960	444	<2	326	120	523	2.30	<10	85	<1	<10	0.54	55	170	5.35	0.86	2.10	0.06	0.033	<10	7	12
28425	<0.2	0.5	44	1030	<2	22	13	183	4.39	<10	89	<1	<10	0.66	16	68	7.49	0.80	4.03	0.04	0.060	<10	11	<10
28426	<0.2	<0.5	11	88	<2	8	5	9	0.41	<10	7	<1	<10	0.08	<1	135	0.49	0.12	0.13	0.03	0.012	<10	<1	<10
28427	3.0	0.7	1960	954	<2	501	11	123	1.62	15	6	<1	<10	2.96	49	72	6.74	0.05	1.26	0.02	0.034	<10	3	<10
28428	<0.2	<0.5	20	71	<2	12	3	6	0.23	<10	6	<1	<10	0.08	<1	129	0.33	0.07	0.06	0.04	0.015	<10	<1	<10
28429	<0.2	<0.5	9	117	<2	7	4	5	0.34	<10	6	<1	<10	0.07	<1	128	0.37	0.11	0.04	0.05	0.012	<10	<1	<10
28430	<0.2	<0.5	4	11	<2	<1	8	2	0.03	<10	9	<1	<10	0.04	<1	3	0.05	0.01	0.02	0.01	0.004	<10	<1	<10
28431	<0.2	<0.5	2	324	<2	6	4	49	1.60	<10	37	<1	<10	0.13	3	93	1.76	0.22	1.13	0.03	0.017	<10	1	<10
28432	<0.2	<0.5	2	496	<2	5	<2	68	3.61	<10	117	<1	<10	0.26	14	85	4.56	0.72	2.55	0.04	0.038	<10	7	<10
28433	<0.2	<0.5	6	460	<2	3	3	53	3.16	<10	108	<1	<10	0.23	14	68	4.91	0.70	2.26	0.03	0.078	<10	7	<10
27075	<0.2	<0.5	212	482	<2	54	<2	28	3.25	<10	9	<1	<10	2.88	29	97	4.21	0.03	1.53	0.22	0.033	<10	9	<10
27077	<0.2	<0.5	138	484	<2	54	<2	28	3.13	<10	8	<1	<10	3.07	28	102	4.46	0.02	1.65	0.11	0.035	<10	8	<10
27078	<0.2	<0.5	131	516	<2	56	<2	32	3.25	<10	7	<1	<10	3.02	29	82	4.66	0.02	1.75	0.15	0.036	<10	9	<10
27079	<0.2	<0.5	133	416	<2	54	4	32	3.78	<10	12	<1	<10	3.15	23	77	3.40	0.02	1.24	0.34	0.037	<10	9	<10
27080	<0.2	<0.5	4	13	<2	<1	5	1	0.05	<10	8	<1	<10	0.05	<1	3	0.06	0.01	0.02	0.01	0.004	<10	<1	<10
27081	<0.2	<0.5	116	411	<2	50	4	29	2.98	<10	10	<1	<10	2.74	22	71	3.44	0.02	1.30	0.27	0.036	<10	10	<10
27082	<0.2	<0.5	142	349	<2	77	<2	25	2.64	<10	9	<1	<10	2.50	25	61	3.24	0.01	1.21	0.24	0.042	<10	9	<10
27083	0.2	<0.5	304	283	<2	46	4	23	3.60	<10	9	<1	<10	3.20	22	60	2.30	0.01	0.91	0.36	0.040	<10	7	<10
27084	<0.2	<0.5	127	250	<2	38	<2	19	2.00	<10	8	<1	<10	1.80	18	45	2.24	0.01	0.84	0.20	0.039	<10	8	<10
27085	<0.2	<0.5	155	394	<2	48	<2	27	2.38	<10	22	<1	<10	2.31	23	61	3.24	0.02	1.22	0.25	0.039	<10	10	<10
28434	<0.2	<0.5	30	587	<2	4	<2	55	3.26	<10	58	<1	<10	0.28	14	76	4.84	0.38	2.45	0.03	0.087	<10	6	<10
28435	<0.2	<0.5	9	558	<2	5	3	68	3.60	<10	119	<1	<10	0.27	14	63	4.47	0.86	2.10	0.05	0.085	<10	6	<10
28436	<0.2	<0.5	19	642	<2	4	6	73	3.50	<10	126	<1	<10	0.32	14	57	4.67	0.82	2.17	0.04	0.086	<10	7	<10
28437	<0.2	<0.5	8	904	<2	3	5	93	3.74	<10	149	<1	<10	0.38	18	81	6.27	0.82	2.60	0.04	0.088	<10	8	<10
28438	<0.2	<0.5	5	937	<2	3	10	103	3.74	<10	156	<1	<10	0.55	20	64	5.29	0.72	2.49	0.05	0.086	<10	7	<10
28439	<0.2	<0.5	32	763	<2	6	14	112	3.62	<10	308	<1	<10	0.42	17	78	4.98	0.83	2.40	0.07	0.083	<10	9	<10
28440	0.8	<0.5	1540	322	<2	1700	<2	28	6.22	<10	20	<1	<10	3.01	56	148	3.39	0.03	3.39	0.34	0.003	<10	3	<10
30635	0.5	<0.5	416	174	<2	393	<2	35	2.66	<10	22	<1	<10	1.54	39	111	2.33	0.07	2.21	0.10	0.014	<10	2	<10
30637	0.3	<0.5	212	136	<2	44	3	7	5.14	<10	12	<1	<10	3.66	9	137	0.96	0.02	0.82	0.63	0.013	<10	4	<10
30638	3.0	2.6	1860	260	<2	47	<2	117	3.32	<10	219	<1	<10	0.10	12	99	2.66	0.74	1.65	0.06	0.004	<10	5	<10
27086	0.3	<0.5	496	300	<2	41	2	25	2.64	<10	11	<1	<10	2.39	20	64	2.37	0.02	1.12	0.27	0.041	<10	8	<10
27087	0.2	<0.5	433	259	<2	51	3	18	3.47	<10	10	<1	<10	2.85	22	53	2.27	0.02	0.87	0.39	0.040	<10	7	<10
27088	<0.2	<0.5	143	391	<2	51	<2	22	3.03	<10	11	<1	<10	2.44	25	73	3.75	0.01	1.35	0.19	0.040	<10	8	<10
27089	<0.2	<0.5	158	400	<2	47	<2	25	3.15	<10	12	<1	<10	2.72	23	78	3.42	0.02	1.24	0.31	0.039	<10	9	<10
27090	0.8	<0.5	1470	303	<2	1590	<2	23	6.00	<10	19	<1	<10	2.85	52	140	3.21	0.03	3.18	0.33	0.002	<10	3	<10
27091	<0.2	<0.5	223	433	<2	57	<2	27	3.35	<10	12	<1	<10	2.72	27	65	3.72	0.04	1.41	0.19	0.036	<10	8	<10
27092	<0.2	<0.5	78	406	<2	42	<2	26	4.39	<10	13	<1	<10	3.75	18	71	3.00	0.03	1.15	0.28	0.038	<10	9	<10
27093	<0.2	<0.5	220	507	<2	54	<2	31	3.25	<10	8	<1	<10	2.70	29	85	4.54	0.02	1.73	0.23	0.039	<10	11	<10
27094	<0.2	<0.5	196	396	<2	46	<2	25	2.27	<10	8	<1	<10	2.26	23	67	3.31	0.02	1.26	0.22	0.039	<10	9	<10
27095	0.5	<0.5	690	524	<2	87	2	35	3.04	<10	8	<1	<10	1.88	44	83	5.40	0.02	2.00	0.15	0.039	<10	9	<10
30639	3.3	2.2	1500	328	<2	75	10	225	5.11	<10	121	<1	<10	2.33	15	53	4.22	0.69	1.75	0.17	0.032	<10	5	<10
30640	3.1	<0.5	1590	313	<2	1650	<2	26	6.01	<10	19	<1	<10	2.94	56	147	3.37	0.03	3.31	0.33	0.003	<10	3	<10
30641	0.4	<0.5	311	96	<2	216	12	11	5.81	<10	13	<1	<10	4.04	27	42	1.53	0.01	0.48	0.64	0.037	<10	2	<10
30642	0.2	<0.5	197	02	<2	181	17	8	6.31	<10	22	<1	<10	4.28	19	73	1.03	0.04	0.41	0.73	0.041	<10	1	<10
30643	1.8	0.8	767	101	<2	338	21	11	6.14	<10	13	<1	<10	4.33	32	50	1.67	<0.01	0.65	0.65	0.013	<10	3	<10
30644	1.5	0.5	943	96	<2	437	22	11	6.04	<10	14	<1	<10	4.22	48	75	2.29	0.01	0.55	0.56	0.009	<10	3	<10
30645	1.0	<0.5	746	148	<2	326	17	16	5.81	<10	22	<1	<10	4.08	42	106	2.39	0.04	0.81	0.60	0.014	<10	4	<10
30646	1.3	<0.5	864	141	<2	892	25	15	5.75	<10	20	<1	<10	3.91	59	108	3.57	0.03	0.88	0.52	0.013	<10	3	<10
30647	1.7	0.6	809	169	<2	919	16	15	5.48	<10	15	<1	<10	3.65	50	106	3.78	0.02	0.91	0.51	0.009	<10	4	<10
30648	1.0	<0.5	290	121	<2	92	22	9	5.33	<10	17	<1	<10	3.81	13	128	1.14	0.02	0.64	0.61	0.016	<10	3	<10
30649	2.3	0.6	1610	154	<2	756	24	16	5.44	<10	22	<1	<10	3.78	77	202	4.03	0.03	0.50	0.54	0.017	<10	4	<10
30650	1.0	1.3	9080	281	<2	>10000	<2	42	0.66	<10	6	<1	<10	0.40	666	34	33.1	0.11	0.17	0.06	0.047	<10	4	<10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
30051	1.8	0.9	1370	177	<2	832	24	20	5.73	<10	17	<1	<10	4.18	54	209	4.10	0.02	0.98	0.47	0.012	<10	4	<10
30062	3.2	1.7	1880	237	<2	923	26	35	4.93	<10	12	<1	<10	3.54	62	186	4.63	0.02	1.21	0.36	0.010	<10	4	<10
30063	0.5	<0.5	284	88	<2	484	31	9	8.48	<10	11	<1	<10	4.67	25	93	1.88	0.02	0.52	0.57	0.009	<10	2	<10
30064	1.5	0.8	1180	103	<2	517	31	16	6.20	<10	16	<1	<10	4.29	50	118	2.50	0.03	0.61	0.63	0.012	<10	2	<10
30065	1.2	1.0	1190	118	<2	935	34	16	6.32	<10	12	<1	<10	4.30	50	155	3.71	0.01	0.75	0.57	0.009	<10	4	<10
30066	2.0	<0.5	1360	136	<2	1310	35	14	5.57	<10	16	<1	<10	3.45	308	161	5.87	0.04	0.58	0.44	0.010	<10	3	<10
30067	0.8	0.8	490	289	<2	844	11	52	5.03	<10	83	<1	<10	1.73	59	364	5.77	0.41	5.01	0.11	0.003	<10	9	<10
30068	3.7	1.6	1730	194	<2	507	43	53	4.02	<10	44	<1	<10	2.05	32	267	3.43	0.18	2.60	0.23	0.007	<10	6	<10
27106	0.5	<0.5	285	294	<2	19	<2	35	3.16	<10	190	<1	<10	0.28	10	64	3.00	0.83	2.10	0.09	0.010	<10	9	<10
27107	0.7	<0.5	339	347	<2	14	3	36	4.61	<10	206	<1	<10	1.04	11	80	4.00	1.06	2.34	0.16	0.013	<10	9	<10
27108	0.5	<0.5	242	324	<2	31	3	34	4.83	<10	193	<1	<10	1.48	13	117	4.18	1.18	2.43	0.14	0.019	<10	8	<10
27109	5.1	1.7	2820	427	<2	86	<2	50	5.62	<10	114	<1	<10	1.73	35	70	6.78	1.66	3.05	0.14	0.027	<10	16	<10
27110	<0.2	<0.5	13	13	<2	<1	<2	2	0.07	<10	9	<1	<10	0.04	<1	3	0.07	0.01	0.03	0.01	0.004	<10	<1	<10
27111	0.7	<0.5	409	370	<2	39	3	33	4.71	<10	374	<1	<10	1.11	21	173	4.98	1.06	2.72	0.14	0.018	<10	14	<10
27112	3.7	1.8	2610	189	<2	45	4	37	3.71	<10	128	<1	<10	0.66	14	91	3.66	0.66	2.65	0.17	0.025	<10	6	<10
27113	0.9	<0.5	595	194	<2	6	2	27	3.04	<10	107	<1	<10	0.24	6	78	2.52	0.46	2.88	0.06	0.025	<10	3	<10
27114	3.4	1.6	2630	263	<2	75	5	59	2.66	<10	89	<1	<10	0.44	24	55	4.22	0.32	2.81	0.04	0.013	<10	5	<10
27115	0.4	<0.5	291	239	<2	201	12	29	4.04	<10	17	<1	<10	2.28	35	97	2.25	0.05	2.29	0.12	0.008	<10	2	<10
30069	9.8	4.5	3910	174	<2	888	68	93	5.75	<10	38	<1	<10	3.28	40	238	4.45	0.11	1.48	0.45	0.009	<10	4	<10
30060	<0.2	<0.5	6	13	<2	3	<2	6	0.04	<10	8	<1	<10	0.04	<1	3	0.06	<0.01	0.02	0.01	0.003	<10	<1	<10
30061	10.9	3.8	4240	113	<2	885	67	48	5.81	<10	9	<1	<10	4.01	105	128	4.24	0.01	0.70	0.37	0.007	<10	2	<10
30062	5.5	1.9	2340	140	<2	934	61	34	5.43	<10	12	<1	<10	3.74	61	191	4.74	0.02	0.58	0.36	0.009	<10	4	<10
30063	15.9	7.5	7480	177	<2	1650	68	121	4.06	<10	10	<1	<10	2.25	83	223	7.99	0.02	1.15	0.27	0.009	<10	2	<10
30064	10.7	6.4	4610	198	<2	1620	74	117	3.69	<10	22	<1	<10	1.66	117	239	7.16	0.08	1.73	0.26	0.011	<10	3	<10
30065	4.2	3.3	1290	196	<2	453	79	92	2.47	<10	22	<1	<10	1.23	46	146	3.34	0.05	1.24	0.23	0.011	<10	3	<10
30066	1.7	0.8	477	113	<2	169	16	39	1.01	<10	64	<1	<10	0.48	30	109	3.08	0.11	0.82	0.10	0.049	<10	4	<10
30067	<0.2	<0.5	94	177	<2	36	5	35	1.12	<10	53	<1	<10	0.70	17	70	4.09	0.12	1.01	0.05	0.119	<10	4	<10
30068	<0.2	<0.5	33	412	<2	35	<2	37	2.29	<10	29	<1	<10	0.85	25	85	4.88	0.10	1.78	0.07	0.094	<10	6	<10
30069	<0.2	<0.5	31	589	<2	33	4	48	2.69	<10	23	<1	<10	0.88	21	76	6.63	0.08	2.52	0.04	0.096	<10	7	<10
30070	0.6	<0.5	1520	314	<2	1660	<2	24	5.75	<10	19	<1	<10	2.92	55	145	3.35	0.03	3.27	0.31	0.003	<10	3	<10
30071	2.1	3.4	1360	597	<2	463	71	225	2.80	<10	45	<1	<10	0.76	90	67	7.77	0.11	2.22	0.06	0.086	<10	9	<11
30072	13.8	9.3	9590	453	<2	6120	29	538	2.00	<10	13	<1	<10	0.34	108	79	27.1	0.04	1.80	0.01	0.019	<10	2	<10
30073	9.2	7.7	5780	423	<2	6920	16	408	1.85	<10	10	<1	<10	0.24	215	100	31.9	0.05	1.45	0.02	0.010	10	3	<10
30074	10.8	6.0	6140	914	<2	4560	69	385	2.63	<10	7	<1	<10	0.35	540	89	26.8	0.03	1.96	0.01	0.017	<10	4	<10
30075	10.0	20.2	5750	787	<2	3240	90	1380	3.34	<10	8	<1	<10	0.48	359	118	22.0	0.02	2.77	0.01	0.010	<10	7	<10
30076	20.9	26.2	>10000	655	<2	1670	90	1770	3.00	<10	13	<1	<10	0.64	119	83	14.6	0.05	2.66	0.02	0.027	<10	8	13
30077	1.1	6.3	1240	744	<2	84	20	641	3.63	<10	58	<1	<10	0.73	28	88	6.44	0.29	3.05	0.05	0.060	<10	9	<10
30078	<0.2	0.7	167	869	<2	40	3	129	4.59	<10	137	<1	<10	0.83	23	50	7.25	0.96	3.57	0.09	0.083	<10	15	<10

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Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
Detection Limit	1	0.01	1	10	1	1	0.001		0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
28424	4	0.12	<6	<10	6	11	1.291																		
28425	5	0.12	81	<10	12	7	0.112																		
28426	<1	<0.01	2	<10	10	3	0.015																		
28427	4	<0.01	14	<10	9	3	1.956																		
28428	<1	<0.01	<1	<10	4	1	0.017																		
28429	1	<0.01	<1	<10	12	4	0.014																		
28430	1	<0.01	<1	<10	<1	4	0.018																		
28431	3	0.02	4	<10	9	10	0.004																		
28432	8	0.13	62	<10	7	7	0.005																		
28433	4	0.13	62	<10	5	5	0.006																		
27078	37	0.11	98	<10	6	2	0.327																		
27077	34	0.13	110	<10	7	3	0.192																		
27078	32	0.13	113	<10	7	3	0.188																		
27079	61	0.10	87	<10	6	2	0.197																		
27060	2	<0.01	<1	<10	<1	4	0.018																		
27081	45	0.11	89	<10	7	2	0.166																		
27082	35	0.10	69	<10	6	2	0.279																		
27063	55	0.08	63	<10	5	1	0.247																		
27084	29	0.08	59	<10	4	1	0.175																		
27085	35	0.10	64	<10	6	2	0.212																		
28434	5	0.07	55	<10	6	6	0.016																		
28435	8	0.15	60	<10	6	6	0.009																		
28436	12	0.16	59	<10	6	6	0.013																		
28437	8	0.17	66	<10	10	6	0.007																		
28438	11	0.17	63	<10	10	6	0.014																		
28439	13	0.17	71	<10	8	6	0.028																		
28440	68	0.02	36	<10	<1	1	0.483																		
30035	24	0.04	18	<10	1	1	0.258																		
30037	66	0.03	23	<10	1	<1	0.051																		
30038	10	0.03	14	<10	<1	2	0.246																		
27066	37	0.10	71	<10	5	1	0.253																		
27087	62	0.08	62	<10	5	1	0.298																		
27088	50	0.13	63	<10	7	2	0.229																		
27089	45	0.09	64	<10	6	2	0.203																		
27090	62	0.02	33	<10	<1	1	0.460																		
27091	47	0.10	66	<10	6	2	0.313																		
27092	78	0.09	81	<10	6	2	0.131																		
27093	35	0.11	106	<10	7	2	0.278																		
27094	26	0.06	66	<10	6	2	0.187																		
27095	24	0.12	110	<10	6	3	0.818																		
30039	27	0.12	51	<10	7	3	0.591																		
30040	65	0.02	33	<10	<1	1	0.473																		
30041	57	0.02	13	<10	3	2	0.535																		
30042	78	0.02	13	<10	2	1	0.343																		
30043	91	0.02	18	<10	2	2	0.819																		
30044	69	0.02	21	<10	<1	1	1.012																		
30045	83	0.04	33	<10	1	1	0.739																		
30046	83	0.03	29	<10	1	2	1.427																		
30047	78	0.03	34	<10	<1	2	1.455																		
30048	66	0.03	24	<10	1	<1	0.173																		
30049	80	0.04	36	<10	2	2	1.560																		
30050	16	0.06	62	<10	17	19	6.894																		

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Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	1	0.01	1	10	1	1	0.001		0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30051	90	0.03	40	< 10		1	2																	
30062	74	0.03	37	< 10	< 1	2	1.637																	
30063	87	0.02	18	< 10	< 1	2	0.759																	
30064	76	0.02	17	< 10	< 1	2	1.136																	
30065	78	0.02	26	< 10	< 1	2	1.471																	
30066	70	0.02	30	< 10	< 1	3	3.122																	
30067	26	0.08	93	< 10	2	2	0.838																	
30068	29	0.05	41	< 10	3	2	0.724																	
27105	10	0.11	18	< 10	2	3	0.146																	
27107	19	0.13	23	< 10	4	4	0.226																	
27108	20	0.14	34	< 10	4	3	0.289																	
27109	17	0.16	111	< 10	7	3	0.975																	
27110	2	< 0.01	< 1	< 10	< 1	4	0.020	< 0.2	< 0.5	4	11	< 2	< 1	< 2	2	0.03	< 10	10	< 1	< 10	0.04	< 1	2	
27111	19	0.18	71	< 10	6	4	0.346																	
27112	16	0.06	16	< 10	4	5	0.731																	
27113	13	0.05	11	< 10	6	6	0.084																	
27114	8	0.07	18	< 10	10	3	0.896																	
27115	50	0.06	26	< 10	< 1	< 1	0.117																	
30049	55	0.03	31	< 10	1	2	1.591																	
30060	1	< 0.01	< 1	< 10	< 1	4	0.023																	
30061	68	0.01	22	< 10	< 1	2	1.877																	
30062	68	0.02	39	< 10	< 1	2	1.674																	
30063	40	0.02	44	< 10	< 1	3	3.448																	
30064	24	0.05	70	< 10	1	2	2.887																	
30065	27	0.04	52	< 10	< 1	1	0.924																	
30066	11	0.08	103	< 10	4	2	0.487																	
30067	8	0.09	116	< 10	9	2	0.197																	
30068	13	0.14	110	< 10	12	3	0.156																	
30069	13	0.15	84	< 10	12	5	0.139																	
30070	65	0.02	34	< 10	< 1	2	0.475																	
30071	10	0.16	90	< 10	14	5	1.631																	
30072	8	0.08	64	< 10	3	8	4.538																	
30073	5	0.05	61	< 10	2	9	5.456																	
30074	4	0.09	72	< 10	4	8	7.116																	
30075	6	0.06	86	15	3	6	5.772																	
30076	7	0.12	80	18	11	7	4.891																	
30077	13	0.13	76	< 10	17	5	0.468																	
30078	21	0.13	138	< 10	19	4	0.127																	

Activation Laboratories Ltd.

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Analyte Symbol	Fe	K	Mg	Na	P	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zr	S	Hg	Ag	Cu	Zn	Pb	Ni	Cd	Co	Mn
Unit Symbol	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	%	%
Detection Limit	0.01	0.01	0.01	0.01	0.001	10	1	10	1	0.01	1	10	1	1	0.001			0.001			0.003			
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES

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Activation Laboratories Ltd. Report: A08-2667 rev 1

Analyte Symbol	Fe	K	Mg	Na	P	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zr	S	Hg	Ag	Cu	Zn	Pb	Ni	Cd	Co	Mn
Unit Symbol	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	%	%
Detection Limit	0.01	0.01	0.01	0.01	0.001	10	1	10	1	0.01	1	10	1	1	0.001			0.001			0.003			
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES
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27105																								
27107																								
27108																								
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27110	0.05	0.01	0.02	0.02	0.004	< 10	< 1	< 10	2	< 0.01	< 1	< 10	1	4	0.017									
27111																								
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Analyte Symbol	Fe	Li
Unit Symbol	%	%
Detection Limit		
Analysis Method	ICP-OES	TD-ICP

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Analyte Symbol	Fe	Li
Unit Symbol	%	%
Detection Limit		
Analysis Method	ICP-OES	TD-ICP

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GXR-1 Meas	26.9	3.9	1190	922	15	26	592	527	0.35	353	222	<1	1900	0.80	9	7	24.9	0.03	0.14	0.04	0.036	78	1	29
GXR-1 Cert	31.0	3.30	1110	952	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.4	0.6	6160	141	333	36	43	59	2.78	96	30	1	36	0.93	15	56	3.49	1.38	1.68	0.11	0.119	<10	7	<10
GXR-4 Cert	4.00	0.600	6020	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.064	0.120	4.80	7.70	5.60
GXR-2 Meas	19.1	4.7	81	1100	<2	16	771	564	3.63	15	1160	1	<10	0.82	10	27	2.20	0.55	0.55	0.15	0.058	32	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
KC-1A Meas																								
KC-1A Cert																								
GZN-3 Meas																								
GZN-3 Cert																								
GXR-6 Meas	0.3	0.6	78	1060	<2	19	95	124	7.65	232	933	<1	<10	0.18	16	84	6.06	0.90	0.41	0.08	0.032	<10	24	<10
GXR-6 Cert	1.30	1.00	65.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.56	1.87	3.606	0.104	0.0350	3.60	27.6	1.70
OCU-1C Meas																								
OCU-1C Cert																								
PTC-1a Meas																								
PTC-1a Cert																								
OREAS 13P Meas			2450			2140												5.41						
OREAS 13P Cert			2500			2260												7.58						
OREAS 14P Meas																								
OREAS 14P Cert																								
28430 Orig	<0.2	<0.5	4	10	<2	<1	8	2	0.03	<10	9	<1	<10	0.04	<1	3	0.05	0.01	0.02	0.01	0.004	<10	<1	<10
28430 Dup	<0.2	<0.5	4	11	<2	<1	7	2	0.03	<10	9	<1	<10	0.04	<1	3	0.05	0.01	0.02	0.01	0.004	<10	<1	<10
28434 Orig	<0.2	<0.5	28	579	2	4	<2	58	3.18	<10	58	<1	<10	0.29	14	76	4.82	0.38	2.45	0.03	0.086	<10	6	<10
28434 Dup	<0.2	<0.5	31	584	<2	4	4	55	3.33	<10	57	<1	<10	0.28	14	77	4.85	0.38	2.48	0.03	0.088	<10	6	<10
27065 Orig	<0.2	<0.5	159	405	<2	48	<2	25	3.15	<10	13	<1	<10	2.77	23	79	3.45	0.02	1.25	0.32	0.039	<10	10	<10
27065 Dup	<0.2	<0.5	156	394	<2	47	<2	25	3.13	<10	12	<1	<10	2.68	22	77	3.36	0.02	1.22	0.30	0.038	<10	9	<10
30045 Orig	1.3	<0.5	869	139	<2	908	26	15	5.80	<10	20	<1	<10	3.86	58	107	3.50	0.03	0.87	0.52	0.013	<10	3	<10
30045 Dup	1.3	<0.5	859	142	<2	875	23	16	5.70	<10	20	<1	<10	3.96	60	105	3.63	0.03	0.89	0.51	0.013	<10	3	<10
27111 Orig	0.7	0.5	418	371	<2	41	3	33	4.73	<10	399	<1	<10	1.12	21	173	4.99	1.07	2.73	0.14	0.018	<10	14	<10
27111 Dup	0.6	<0.5	406	369	<2	38	3	33	4.70	<10	359	<1	<10	1.10	21	173	4.97	1.06	2.70	0.14	0.018	<10	14	<10
30069 Orig	<0.2	<0.5	32	412	<2	35	<2	37	2.28	<10	29	<1	<10	0.85	20	85	4.87	0.09	1.75	0.07	0.094	<10	6	<10
30069 Dup	<0.2	<0.5	33	412	<2	35	4	37	2.31	<10	30	<1	<10	0.85	19	85	4.90	0.10	1.80	0.07	0.095	<10	6	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
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Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Be	Be	Bi	Ca	Co	Cr
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
Detection Limit	1	0.01	1	10	1	1	0.001	1	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GXR-1 Meas	180		77	149	24	16	0.204	1140	29.5	3.4	1150	789	16	36	600	642	0.33	393	203	< 1	1440	0.76	8	7
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257	1110	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.560	8.20	12.0
GXR-4 Meas	71		80	14	12	10	1.903	6010	3.6	0.6	5520	136	344	39	45	70	2.58	100	32	1	26	0.82	16	56
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77	6520	4.00	0.960	6520	165	310	42.0	62.0	73.0	7.20	96.0	1640	1.90	16.0	1.01	14.6	54.0
GXR-2 Meas	91		51	< 10	11	12	0.037	86	21.3	4.6	83	1030	< 2	17	768	549	3.58	13	1420	1	< 10	0.82	10	25
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313	76.0	17.0	4.10	76.0	1010	2.10	21.0	690	530	15.5	25.0	2240	1.70	0.690	0.930	8.60	36.0
KC-1A Meas																								
KC-1A Cert																								
GZN-3 Meas																								
GZN-3 Cert																								
GXR-6 Meas	34		174	< 10	7	16	0.021	68	0.3	0.8	81	1020	< 2	31	55	122	7.10	243	652	< 1	< 10	0.16	15	84
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160	66.0	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	86.0
OCU-1C Meas																								
OCU-1C Cert																								
PTC-1a Meas																								
PTC-1a Cert																								
OREAS 13P Meas								2610																
OREAS 13P Cert								2500																
OREAS 14P Meas								8950																
OREAS 14P Cert								9670																
28430 Orig	1	< 0.01	< 1	< 10	< 1	4	0.018																	
28430 Dup	1	< 0.01	< 1	< 10	< 1	4	0.017																	
28434 Orig	5	0.07	66	< 10	6	6	0.019																	
28434 Dup	5	0.07	55	< 10	6	6	0.013																	
27065 Orig	46	0.06	83	< 10	6	2	0.206																	
27065 Dup	45	0.06	84	< 10	6	2	0.199																	
30045 Orig	82	0.03	30	< 10	1	2	1.414																	
30045 Dup	84	0.03	28	< 10	1	2	1.440																	
27111 Orig	20	0.16	71	< 10	6	4	0.349																	
27111 Dup	19	0.16	71	< 10	6	4	0.345																	
30069 Orig	13	0.14	109	< 10	12	3	0.180																	
30069 Dup	13	0.14	111	< 10	12	3	0.152																	
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001																	
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001																	
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001																	
Method Blank Method Blank								< 1																
Method Blank Method Blank								< 0.2	< 0.6	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	
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Quality Control

Analyte Symbol	Fe	K	Mg	Na	P	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zr	S	Cu	Ni
Unit Symbol	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%
Detection Limit	0.01	0.01	0.01	0.01	0.001	10	1	10	1	0.01	1	10	1	1	0.001	0.001	0.003
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES
GXR-1 Meas	26.4	0.02	0.13	0.05	0.038	79	1	28	163		78	131	24	13	0.204		
GXR-1 Cert	23.8	0.0500	0.217	0.0520	0.0650	122	1.58	54.0	275		80.0	164	32.0	38.0	0.257		
GXR-4 Meas	3.49	1.38	1.69	0.11	0.123	< 10	7	< 10	75		87	12	12	10	1.623		
GXR-4 Cert	3.09	4.01	1.66	0.564	0.120	4.80	7.70	6.60	221		67.0	30.8	14.0	186	1.77		
GXR-2 Meas	2.31	0.57	0.56	0.28	0.058	29	5	< 10	102		51	< 10	11	13	0.037		
GXR-2 Cert	1.88	1.37	0.890	0.558	0.105	49.0	8.88	1.70	180		52.0	1.90	17.0	289	0.0313		
KC-1A Meas																	0.641
KC-1A Cert																	0.629
GZN-3 Meas																	0.684
GZN-3 Cert																	0.685
GXR-6 Meas	6.89	0.89	0.42	0.12	0.033	< 10	22	< 10	34		183	< 10	6	14	0.020		
GXR-6 Cert	5.58	1.87	0.609	0.104	0.0350	3.60	27.6	1.70	35.0		186	1.80	14.0	110	0.0160		
OCU-1C Meas																	25.6
OCU-1C Cert																	25.6
PTC-1a Meas																	13.5
PTC-1a Cert																	13.5
OREAS 13P Meas																	0.250
OREAS 13P Cert																	0.250
OREAS 14P Meas																	0.902
OREAS 14P Cert																	0.997
28430 Orig																	
28430 Dup																	
28434 Orig																	
28434 Dup																	
27066 Orig																	
27066 Dup																	
30046 Orig																	
30046 Dup																	
27111 Orig																	
27111 Dup																	
30068 Orig																	
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Method Blank Method	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001		
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Date Submitted: 26-May-08
Invoice No.: A08-2666
Invoice Date: 24-Jul-08
Your Reference: DOSSIER #22243

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

92 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2666**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is fluid and cursive, written over a horizontal dotted line.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	10	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
27125	1.8	0.5	1020	198	<2	271	22	54	6.07	19	13	<1	<10	4.65	33	261	2.22	0.02	1.35	0.48	0.006	<10	6	<10
27127	0.9	<0.5	1160	104	<2	946	32	71	6.35	<10	17	<1	<10	4.28	65	163	5.41	0.03	0.82	0.56	0.006	<10	3	<10
27128	4.8	0.8	7710	152	<2	2050	23	177	3.42	<10	15	<1	<10	2.04	459	131	13.8	0.04	1.03	0.29	0.015	<10	3	<10
27129	0.3	<0.5	581	528	<2	135	10	109	3.34	<10	49	<1	<10	2.03	43	113	7.43	0.15	1.87	0.10	0.057	<10	11	<10
27130	<0.2	<0.5	10	18	<2	2	<2	2	0.08	<10	9	<1	<10	0.06	1	4	0.12	0.01	0.03	0.01	0.005	<10	<1	<10
27131	1.7	0.7	2250	161	<2	2850	21	206	2.31	<10	11	<1	<10	0.75	159	91	15.6	0.54	1.78	0.15	0.023	<10	8	<10
27132	1.0	1.2	1270	357	<2	419	70	178	4.19	<10	38	<1	<10	2.89	36	136	5.18	0.08	1.58	0.20	0.025	<10	7	<10
27133	9.1	4.7	>10000	943	<2	1630	42	713	3.88	<10	51	<1	<10	0.47	138	67	13.9	0.37	3.69	0.05	0.015	<10	9	<10
27134	10.3	4.8	>10000	483	<2	1780	74	589	2.55	<10	25	<1	<10	0.78	153	68	15.4	0.24	2.16	0.06	0.030	<10	8	<10
27135	7.1	3.1	>10000	539	<2	885	53	538	3.42	34	18	<1	<10	1.79	452	94	16.8	0.27	2.99	0.04	0.016	<10	9	<10
30079	0.5	5.1	541	860	<2	139	18	745	3.29	<10	108	<1	<10	0.72	37	84	8.28	0.45	2.40	0.04	0.061	<10	7	<10
30080	<0.2	<0.5	11	23	<2	2	<2	10	0.05	<10	10	<1	<10	0.05	<1	3	0.12	0.02	0.04	0.01	0.005	<10	<1	<10
30081	<0.2	<0.5	59	588	<2	8	3	103	4.16	<10	173	<1	<10	0.37	18	77	5.82	1.11	2.84	0.05	0.083	<10	11	<10
30082	<0.2	<0.5	112	544	<2	6	3	81	3.82	<10	131	<1	<10	0.29	17	67	5.35	0.82	2.73	0.03	0.088	<10	9	<10
30083	<0.2	<0.5	20	550	2	5	<2	67	3.80	<10	110	<1	<10	0.28	15	65	4.96	0.64	3.07	0.03	0.086	<10	10	<10
30084	<0.2	<0.5	24	803	<2	6	2	87	4.09	<10	154	<1	<10	0.30	16	96	6.07	0.88	3.12	0.04	0.085	<10	12	<10
30085	<0.2	<0.5	48	525	3	4	2	99	4.09	<10	154	<1	<10	0.34	19	67	5.19	0.81	3.08	0.05	0.076	<10	11	<10
30086	<0.2	<0.5	49	530	<2	6	3	107	3.63	<10	167	<1	<10	0.32	17	72	5.17	0.90	2.81	0.04	0.088	<10	10	<10
30087	<0.2	<0.5	94	1210	<2	6	3	171	4.31	<10	181	<1	<10	0.78	15	84	5.43	0.85	3.31	0.06	0.079	<10	12	<10
30088	<0.2	<0.5	236	1250	<2	2	4	201	4.67	<10	262	<1	<10	0.80	20	70	5.75	1.07	3.68	0.10	0.095	<10	13	<10
30089	<0.2	<0.5	38	1350	<2	5	3	223	4.75	<10	171	<1	<10	0.82	14	100	4.96	0.87	3.80	0.09	0.085	<10	12	<10
30090	0.6	<0.5	1410	341	<2	1510	11	29	6.65	<10	30	<1	<10	3.18	53	181	3.88	0.03	6.65	0.40	0.003	<10	4	<10
30091	<0.2	<0.5	133	1120	<2	17	3	239	4.77	<10	201	<1	<10	0.72	16	82	5.10	0.83	3.78	0.08	0.086	<10	12	<10
30092	<0.2	<0.5	10	1250	<2	5	<2	214	4.73	<10	109	<1	<10	0.78	15	86	6.98	0.57	4.82	0.04	0.070	<10	10	<10
30093	<0.2	<0.5	11	595	<2	4	3	128	3.38	<10	123	<1	<10	0.25	8	103	3.57	0.58	3.22	0.04	0.034	<10	6	<10
30094	0.8	2.0	1890	596	3	26	9	425	3.32	<10	61	<1	<10	0.60	27	147	7.30	0.39	2.65	0.04	0.033	<10	6	<10
30095	4.5	2.4	1940	800	<2	29	9	421	5.27	<10	157	<1	<10	1.23	22	73	7.01	0.80	3.11	0.11	0.030	<10	8	<10
30096	9.9	7.4	3280	512	<2	308	21	423	5.32	<10	42	<1	<10	1.98	34	73	6.61	0.71	2.43	0.16	0.033	<10	5	<10
30097	7.7	3.9	2180	353	<2	143	30	228	4.75	<10	108	<1	<10	1.61	23	114	4.25	0.37	1.83	0.30	0.038	<10	5	<10
30098	10.4	6.1	3020	296	<2	257	38	210	4.15	<10	92	<1	13	2.11	32	80	5.14	0.44	1.71	0.24	0.031	<10	4	<10
27147	0.5	<0.5	424	822	<2	44	12	85	4.36	<10	32	<1	<10	1.97	31	86	7.09	0.22	3.00	0.04	0.105	<10	14	<10
27150	1.0	0.5	0060	339	<2	>10000	9	43	0.59	21	5	<1	<10	0.43	579	34	34.3	0.12	0.19	0.09	0.049	10	4	<10
28475	<0.2	<0.5	219	235	<2	367	9	59	3.72	<10	103	<1	<10	1.80	34	102	4.90	0.56	1.73	0.36	0.121	<10	8	<10
28477	<0.2	<0.5	123	491	<2	48	11	122	4.63	<10	89	<1	<10	2.16	30	98	6.10	0.68	3.01	0.10	0.116	<10	14	<10
28478	<0.2	0.6	100	923	<2	77	3	153	3.53	<10	93	<1	<10	1.38	29	164	4.86	0.62	2.75	0.07	0.028	<10	13	<10
28479	<0.2	<0.5	7	235	<2	11	3	74	3.64	<10	103	<1	<10	0.14	10	121	3.14	0.82	2.64	0.05	0.022	<10	5	<10
28480	<0.2	<0.5	3	16	<2	<1	<2	2	0.08	<10	11	<1	<10	0.17	<1	3	0.05	0.02	0.04	0.02	0.004	<10	<1	<10
28481	<0.2	<0.5	4	244	<2	8	<2	57	3.49	<10	63	<1	<10	0.12	7	128	2.67	0.64	2.59	0.04	0.024	<10	3	<10
28482	<0.2	<0.5	3	200	2	5	3	58	3.04	<10	60	<1	<10	0.13	7	101	2.40	0.63	2.06	0.06	0.017	<10	3	<10
28483	<0.2	<0.5	5	216	2	5	<2	70	3.49	<10	76	<1	<10	0.11	9	149	3.59	0.88	2.67	0.04	0.028	<10	6	<10
24184	8.1	5.1	7300	95	<2	5170	118	188	3.22	<10	13	<1	<10	1.69	259	276	25.8	0.03	0.50	0.17	0.009	10	2	<10
24185	7.2	6.1	7430	61	<2	8160	33	181	0.57	<10	15	<1	<10	0.42	416	53	38.0	0.01	0.26	0.03	0.011	11	<1	<10
24186	11.9	15.3	>10000	77	<2	6800	45	429	0.80	<10	8	<1	<10	0.50	346	47	36.1	0.03	0.37	0.03	0.014	12	1	<10
24187	4.1	19.6	3050	51	<2	7800	19	553	0.41	<10	8	<1	<10	0.25	640	26	41.2	0.06	0.24	0.02	0.013	15	1	<10
24188	7.8	6.0	8490	200	<2	3700	140	250	2.09	<10	13	<1	<10	1.15	232	144	21.3	0.02	0.88	0.08	0.012	<10	6	12
24189	9.4	8.7	7300	191	<2	3400	160	371	2.67	<10	9	<1	<10	1.67	212	180	19.3	0.06	0.92	0.10	0.011	<10	5	<10
24190	<0.2	<0.5	74	13	<2	70	<2	4	0.06	<10	10	<1	<10	0.05	2	4	0.18	0.01	0.02	0.01	0.004	<10	<1	<10
24191	12.9	11.4	>10000	149	<2	4280	153	432	2.12	<10	8	<1	<10	0.87	790	157	25.1	0.08	0.80	0.11	0.015	<10	2	<10
24192	25.2	10.2	5770	300	<2	2300	1250	374	3.42	<10	12	<1	<10	0.91	153	164	15.3	0.04	1.51	0.14	0.021	<10	3	<10
24193	19.4	22.7	>10000	325	<2	4310	355	683	2.65	<10	13	<1	<10	0.56	243	116	26.0	0.04	1.46	0.11	0.016	<10	4	<10
24143	3.5	1.8	1140	207	<2	422	53	49	5.99	<10	7	<1	<10	4.19	29	142	2.68	0.02	1.19	0.63	0.007	<10	5	<10
24144	4.3	1.8	1100	261	<2	419	55	45	5.66	<10	8	<1	<10	3.99	35	163	2.79	0.02	1.35	0.53	0.015	<10	5	<10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
24145	3.3	1.1	770	205	<2	264	62	24	6.13	<10	13	<1	<10	4.41	29	128	2.00	0.02	1.07	0.64	0.008	<10	4	<10	
24146	4.4	0.9	966	113	<2	239	57	18	5.67	<10	14	<1	<10	3.82	20	86	1.26	0.02	0.67	0.69	0.007	<10	3	<10	
24147	7.2	2.0	1570	163	<2	187	64	28	6.68	<10	18	<1	<10	4.62	22	149	1.60	0.03	0.95	0.85	0.010	<10	5	<10	
24148	2.4	0.6	485	65	<2	116	58	13	6.05	<10	33	<1	<10	3.86	15	112	0.88	0.09	0.54	0.81	0.017	<10	2	<10	
24149	2.4	0.9	720	179	<2	326	50	24	6.83	<10	24	<1	<10	4.77	32	156	2.52	0.06	1.11	0.77	0.011	<10	6	<10	
24150	1.0	1.0	8720	336	<2	>10000	8	44	0.60	<10	7	<1	<10	0.44	575	35	33.3	0.12	0.15	0.09	0.048	12	4	<10	
24201	24.3	27.3	>10000	273	<2	5100	278	764	2.47	<10	7	<1	<10	0.80	310	114	26.6	0.09	1.20	0.13	0.013	11	4	<10	
24202	26.1	82.5	>10000	498	<2	2060	319	1020	4.66	<10	25	<1	<10	2.28	467	98	18.7	0.08	1.75	0.22	0.018	<10	7	<10	
24213	0.6	1.3	432	475	<2	69	25	138	4.11	<10	320	<1	<10	0.82	23	121	4.47	0.88	2.39	0.17	0.042	<10	8	<10	
27066	0.7	0.6	642	956	<2	96	7	46	3.78	<10	17	<1	<10	2.58	43	97	5.47	0.03	2.06	0.19	0.047	<10	11	<10	
27097	0.2	<0.5	284	800	<2	88	2	38	3.88	<10	14	<1	<10	3.11	32	123	5.38	0.04	2.09	0.20	0.038	<10	13	<10	
27098	0.3	<0.5	586	544	<2	72	4	30	3.63	<10	24	13	<1	<10	3.19	35	95	5.44	0.03	1.88	0.33	0.050	<10	14	<10
27099	0.3	<0.5	110	127	<2	60	4	12	7.67	<10	18	<1	<10	5.55	9	104	1.10	0.03	0.76	0.53	0.009	<10	3	<10	
27100	1.0	<0.5	8300	304	<2	>10000	6	41	0.62	<10	15	<1	<10	0.45	548	32	31.8	0.11	0.17	0.10	0.045	10	4	<10	
27101	0.6	<0.5	534	160	<2	66	3	24	6.05	<10	44	<1	<10	3.81	11	203	1.80	0.20	1.64	0.37	0.007	<10	4	<10	
27102	2.1	1.2	1610	251	<2	44	<2	59	2.80	<10	86	<1	<10	0.35	11	104	3.24	0.40	2.60	0.08	0.007	<10	7	<10	
27103	0.3	<0.5	316	373	<2	19	3	40	3.36	<10	85	<1	<10	0.22	11	113	3.93	0.38	3.21	0.06	0.006	<10	6	<10	
27104	1.5	<0.5	1120	268	<2	29	<2	41	3.06	<10	152	1	<10	0.16	25	97	3.07	0.70	2.34	0.06	0.006	<10	4	<10	
27105	1.4	0.5	630	319	<2	25	<2	38	3.45	<10	185	1	<10	0.17	9	131	2.87	1.00	2.23	0.10	0.009	<10	7	<10	
27115	2.5	<0.5	1560	227	<2	96	10	35	4.28	<10	19	<1	<10	2.97	19	132	2.14	0.06	1.85	0.17	0.016	<10	4	<10	
27117	0.3	<0.5	219	234	<2	246	3	26	3.05	<10	10	<1	<10	1.93	33	155	2.53	0.03	2.58	0.14	0.006	<10	4	<10	
27118	<0.2	<0.5	109	234	<2	242	5	21	3.27	<10	10	<1	<10	2.09	29	232	2.36	0.03	2.42	0.13	0.007	<10	4	<10	
27119	<0.2	<0.5	148	271	<2	451	2	40	3.65	<10	8	<1	<10	1.26	46	267	3.44	0.02	3.95	0.09	0.006	<10	3	<10	
27120	0.6	<0.5	1880	333	<2	1660	2	25	6.32	<10	24	<1	<10	3.14	54	158	3.58	0.04	3.49	0.35	0.003	<10	4	<10	
27121	1.3	<0.5	910	216	<2	400	16	21	5.72	<10	12	<1	<10	3.88	25	204	1.96	0.03	1.70	0.33	0.011	<10	4	<10	
27122	<0.2	<0.5	63	312	<2	76	7	20	5.04	<10	10	<1	<10	4.16	11	389	1.95	0.03	1.66	0.26	0.006	<10	7	<10	
27123	2.1	1.8	1090	220	<2	614	23	133	4.20	<10	10	<1	<10	1.88	56	327	3.52	0.03	3.22	0.22	0.010	<10	3	<10	
27124	1.9	0.9	1140	122	<2	493	26	54	5.99	<10	10	<1	<10	4.11	42	139	2.66	0.02	1.15	0.41	0.016	<10	3	<10	
27125	3.7	1.1	2110	87	<2	478	31	60	6.75	<10	8	<1	<10	4.79	43	124	1.95	0.02	0.88	0.40	0.006	<10	3	<10	
27135	14.4	5.8	>10000	597	<2	2010	75	505	3.33	<10	37	29	<1	<10	3.16	135	47	18.3	0.10	2.24	0.05	0.020	<10	11	<10
27137	7.6	2.8	9410	494	<2	1870	47	300	2.62	<10	25	<1	<10	1.62	110	101	15.1	0.09	1.60	0.09	0.027	<10	9	<10	
27138	5.0	4.7	5280	630	<2	288	86	484	3.24	<10	10	<1	<10	2.42	39	89	7.06	0.05	1.99	0.15	0.018	<10	12	<10	
27139	5.8	11.5	6650	551	<2	712	106	1000	3.07	<10	10	<1	<10	2.51	48	52	8.97	0.02	1.75	0.10	0.020	<10	10	<10	
27140	0.7	<0.5	1690	348	<2	1710	3	36	6.38	<10	23	<1	<10	3.25	55	163	3.71	0.04	3.61	0.35	0.003	<10	4	<10	
27141	0.9	1.9	1010	357	<2	190	42	239	2.11	<10	13	<1	<10	1.17	29	64	5.33	0.05	1.15	0.11	0.084	<10	5	<10	
27142	9.1	12.7	8710	163	<2	3500	57	653	1.65	<10	11	<1	<10	0.39	205	58	16.6	0.28	1.05	0.12	0.035	<10	4	<10	
27143	22.5	37.8	>10000	119	<2	7450	34	1590	0.73	<10	14	<1	<10	0.20	353	40	35.9	0.04	0.38	0.03	0.012	13	1	<10	
27144	0.9	2.8	1010	297	<2	158	15	240	2.70	<10	94	<1	<10	0.65	32	58	5.50	0.97	2.63	0.08	0.069	<10	12	<10	
27145	<0.2	0.5	176	484	<2	71	8	122	4.69	<10	77	<1	<10	1.75	28	86	6.81	0.82	3.24	0.28	0.071	<10	12	<10	
27146	0.8	<0.5	560	627	<2	46	7	79	3.87	<10	51	<1	<10	1.75	28	123	5.05	0.31	2.23	0.14	0.081	<10	14	<10	

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Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
Detection Limit	1	0.01	1	10	1	1	0.001		0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
27125	31	0.03	29	< 10	1	2	0.485																	
27127	76	0.02	22	< 10	1	2	2.443																	
27128	35	0.04	27	< 10	2	5	5.374																	
27125	29	0.24	181	< 10	10	6	0.907																	
27130	2	< 0.01	2	< 10	1	5	0.026																	
27131	15	0.13	47	< 10	4	7	6.114																	
27132	37	0.15	85	< 10	5	4	0.988																	
27133	10	0.09	87	< 10	4	4	2.968																	
27134	15	0.12	146	< 10	5	6	5.202																	
27135	9	0.05	94	< 10	3	6	6.176																	
30079	9	0.13	80	< 10	18	12	0.893																	
30080	2	< 0.01	1	< 10	1	5	0.028	< 0.2	< 0.5		3	9	< 2	< 1	< 2	5	0.03	< 10	5	< 1	< 10	0.03	< 1	2
30081	9	0.18	77	< 10	14	11	0.939																	
30082	5	0.13	70	< 10	12	9	0.034																	
30083	7	0.06	70	< 10	10	9	0.029																	
30084	7	0.15	78	< 10	9	9	0.016																	
30085	9	0.15	74	< 10	8	8	0.021																	
30066	8	0.15	71	< 10	7	6	0.014																	
30087	14	0.18	79	< 10	10	10	0.057																	
30088	24	0.18	82	< 10	9	7	0.156																	
30089	21	0.19	74	< 10	10	10	0.030																	
30090	79	0.02	39	< 10	< 1	2	0.491																	
30091	20	0.15	80	< 10	9	9	0.026																	
30092	8	0.12	86	< 10	12	10	0.018																	
30093	10	0.08	26	< 10	10	24	0.015																	
30094	9	0.12	34	< 10	15	17	0.923																	
30095	33	0.15	88	< 10	9	5	0.749																	
30096	26	0.15	77	< 10	7	5	1.843																	
30097	33	0.14	79	< 10	8	5	0.480																	
30098	26	0.12	40	< 10	8	6	1.381																	
27147	23	0.25	136	< 10	14	3	0.309																	
27150	17	0.12	86	< 10	18	20	10.06																	
28475	29	0.15	136	< 10	11	3	0.435																	
28477	29	0.21	142	< 10	17	3	0.269																	
28478	19	0.18	120	< 10	7	5	0.137																	
28476	9	0.10	17	< 10	7	11	0.096																	
28480	2	< 0.01	< 1	< 10	1	6	0.008																	
28481	18	0.08	11	< 10	8	15	0.006																	
28482	16	0.08	6	< 10	7	16	0.006																	
28483	7	0.12	23	< 10	8	13	0.007																	
24184	47	0.03	100	< 10	1	8	7.280																	
24185	8	0.07	129	< 10	1	11	7.899																	
24186	9	0.04	235	< 10	1	10	7.078																	
24187	4	0.05	208	< 10	1	11	5.150																	
24188	24	0.08	104	< 10	2	7	7.448																	
24189	34	0.05	117	< 10	2	6	7.187																	
24190	2	< 0.01	1	< 10	1	5	0.061																	
24191	11	0.03	81	< 10	1	7	8.538																	
24192	14	0.04	140	< 10	2	5	5.175																	
24193	11	0.03	131	< 10	1	7	6.714																	
24143	88	0.04	33	< 10	1	1	0.875																	
24144	79	0.05	35	< 10	1	2	0.753																	

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Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr
Unit	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
Detection Limit	1	0.01	1	10	1	1	0.001		0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
24145	88	0.03	29	< 10	< 1		2	0.553																
24146	84	0.02	16	< 10	< 1	1	0.377																	
24147	91	0.03	22	< 10	2	2	0.382																	
24148	79	0.03	14	< 10	1	1	0.187																	
24149	52	0.05	36	< 10	2	2	0.645																	
24150	17	0.11	64	< 10	18	20	8.801																	
24201	13	0.02	96	10	1	6	6.676																	
24202	40	0.04	160	< 10	2	6	5.848																	
24213	27	0.15	41	< 10	10	13	0.274																	
27065	41	0.14	116	< 10	7	3	0.756																	
27067	43	0.18	131	< 10	9	3	0.260																	
27068	46	0.15	123	< 10	9	3	0.540																	
27069	52	0.04	22	< 10	1	1	0.074																	
27100	19	0.10	60	< 10	17	19	7.442																	
27101	46	0.04	29	< 10	3	2	0.115																	
27102	7	0.05	19	< 10	4	4	0.277																	
27103	8	0.05	16	< 10	4	3	0.157																	
27104	10	0.06	12	< 10	4	4	0.281																	
27105	8	0.10	19	< 10	3	4	0.116																	
27115	55	0.03	26	< 10	2	1	0.204																	
27117	26	0.04	28	< 10	1	1	0.146																	
27118	42	0.04	30	< 10	2	1	0.124																	
27116	12	0.03	24	< 10	< 1	1	0.182																	
27120	89	0.02	36	< 10	< 1	1	0.474																	
27121	88	0.03	25	< 10	1	< 1	0.231																	
27122	42	0.04	41	< 10	3	1	0.041																	
27123	34	0.03	22	< 10	2	2	0.496																	
27124	78	0.02	16	< 10	3	3	0.596																	
27125	95	0.01	15	< 10	< 1	1	0.752																	
27135	15	0.04	151	< 10	4	6	5.955																	
27137	23	0.09	134	< 10	5	6	6.019																	
27138	35	0.10	114	< 10	4	3	1.117																	
27139	31	0.05	111	11	3	4	2.848																	
27140	73	0.02	39	< 10	< 1	2	0.501																	
27141	19	0.14	128	< 10	10	3	0.657																	
27142	9	0.07	100	< 10	4	6	7.457																	
27143	6	0.03	96	20	1	9	5.412																	
27144	9	0.21	120	< 10	9	3	0.470																	
27145	29	0.23	136	< 10	11	3	0.129																	
27146	24	0.21	125	< 10	10	4	0.163																	

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Analyte Symbol	Fe	K	Mg	Na	P	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zr	S	Hg	Ag	Cu	Zn	Pb	Ni	Cd	Co	Mn
Unit Symbol	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	%	%
Detection Limit	0.01	0.01	0.01	0.01	0.001	10	1	10	1	0.01	1	10	1	1	0.001			0.001			0.003			
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES

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27134																								
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30079																								
30080	0.35	0.01	0.02	0.01	0.004	< 10	< 1	< 10	2	< 0.01	< 1	< 10	1	4	0.015									
30081																								
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Analyte Symbol	Fe	K	Mg	Na	P	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zr	S	Hg	Ag	Cu	Zn	Pb	Ni	Cd	Co	Mn
Unit Symbol	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	%	%
Detection Limit	0.01	0.01	0.01	0.01	0.001	10	1	10	1	0.01	1	10	1	1	0.001			0.001			0.003			
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES

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Analyte Symbol	Fe	Li
Unit Symbol	%	%
Detection Limit		
Analysis Method	ICP-OES	TD-ICP

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Analyte Symbol	Fe	Li
Unit Symbol	%	%
Detection Limit		
Analysis Method	ICP-OES	TD-ICP

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.9	3.3	1130	779	16	26	813	524	0.35	351	183	<1	1400	0.80	8	6	24.9	0.03	0.14	0.04	0.038	59	1	24
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.4	< 0.5	6220	139	327	36	45	71	2.80	97	42	1	24	0.90	15	55	3.45	1.36	1.65	0.11	0.115	< 10	7	< 10
GXR-4 Cert	4.00	0.600	6020	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.064	0.120	4.80	7.70	5.60
GXR 2 Meas	17.5	4.3	75	1020	<2	16	708	523	3.31	16	1080	1	<10	0.75	10	25	2.04	0.52	0.50	0.14	0.055	44	5	< 10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
KC-1A Meas																								
KC-1A Cert																								
GZN 3 Meas																								
GZN-3 Cert																								
GXR-6 Meas	0.3	< 0.5	73	1040	< 2	20	94	126	7.27	222	323	< 1	< 10	0.18	16	84	5.96	0.88	0.41	0.07	0.031	< 10	24	< 10
GXR-6 Cert	1.30	1.00	65.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	95.0	5.56	1.87	3.605	0.104	0.0350	3.60	27.6	1.70
OCU-1C Meas																								
OCU-1C Cert																								
PTC-1a Meas																								
PTC-1a Cert																								
OREAS 13P Meas			2480			2180											5.83							
OREAS 13P Cert			2500			2260											7.58							
OREAS 14P Meas																								
OREAS 14P Cert																								
30061 Orig	< 0.2	< 0.5	56	595	3	7	3	132	4.07	< 10	171	< 1	< 10	0.37	18	76	5.81	1.11	2.63	0.04	0.083	< 10	11	< 10
30061 Dup	< 0.2	< 0.5	60	591	< 2	8	3	105	4.24	< 10	174	< 1	< 10	0.38	18	78	5.83	1.12	2.86	0.05	0.083	< 10	11	< 10
30055 Orig	4.2	2.4	1990	802	< 2	30	10	398	5.30	< 10	145	< 1	< 10	1.24	22	74	7.10	0.81	3.12	0.11	0.031	< 10	8	< 10
30055 Dup	4.8	2.5	1880	798	< 2	27	8	424	5.23	< 10	169	< 1	< 10	1.21	23	72	6.95	0.80	3.10	0.11	0.030	< 10	8	< 10
28463 Orig	< 0.2	< 0.5	4	213	2	4	< 2	59	3.45	< 10	75	< 1	< 10	0.10	9	137	3.53	0.85	2.64	0.04	0.026	< 10	5	< 10
28463 Dup	< 0.2	< 0.5	5	219	2	5	< 2	70	3.63	< 10	77	< 1	< 10	0.11	9	160	3.66	0.87	2.71	0.04	0.027	< 10	5	< 10
24145 Orig	4.8	0.9	981	116	< 2	238	57	17	5.62	< 10	14	< 1	< 10	3.82	20	88	1.24	0.02	0.66	0.69	0.007	< 10	3	< 10
24145 Dup	3.9	0.9	948	110	< 2	239	96	18	5.42	< 10	15	< 1	< 10	3.82	20	88	1.28	0.02	0.67	0.68	0.006	< 10	3	< 10
27121 Orig	1.3	< 0.5	891	215	< 2	400	16	21	5.63	< 10	13	< 1	< 10	3.33	25	201	1.94	0.03	1.68	0.33	0.011	< 10	3	< 10
27121 Dup	1.4	< 0.5	926	217	< 2	401	16	21	5.61	< 10	12	< 1	< 10	3.93	25	207	1.96	0.03	1.71	0.34	0.012	< 10	4	< 10
27145 Orig	< 0.2	0.5	182	484	< 2	71	8	119	4.66	< 10	76	< 1	< 10	1.74	28	85	5.80	0.82	3.23	0.28	0.071	< 10	12	< 10
27145 Dup	< 0.2	0.5	175	485	< 2	71	8	124	4.72	< 10	78	< 1	< 10	1.75	29	85	5.81	0.82	3.25	0.28	0.070	< 10	12	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	1	3	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method																								
Method Blank Method																								
Method Blank Method																								
Method Blank Method																								

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Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Be	Be	Bi	Ca	Co	Cr
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
Detection Limit	1	0.01	1	10	1	1	0.001	1	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GXR-1 Meas	154		78	144	24	16	0.203	1140	29.5	3.4	1150	789	15	35	600	642	0.33	393	203	< 1	1440	0.76	8	7
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257	1110	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.580	8.20	12.0
GXR-4 Meas	56		76	14	11	10	1.767	6010	3.5	0.6	5520	135	344	39	45	70	2.58	100	32	1	26	0.82	16	56
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77	6520	4.00	0.960	6520	165	310	42.0	62.0	73.0	7.20	96.0	1640	1.90	16.0	1.01	14.6	54.0
GXR-2 Meas	64		4.7	< 10	11	12	0.034	86	21.3	4.6	83	1030	< 2	1.7	788	549	3.58	13	1420	1	< 10	0.82	10	25
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313	76.0	17.0	4.10	76.0	1010	2.10	21.0	690	530	15.5	25.0	2240	1.70	0.890	0.930	8.60	35.0
KC-1A Meas																								
KC-1A Cert																								
GZN-3 Meas																								
GZN-3 Cert																								
GXR-6 Meas	33		168	< 10	7	13	0.021	68	0.3	0.8	81	1020	< 2	31	55	122	7.10	243	852	< 1	< 10	0.15	15	84
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160	66.0	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	85.0
OCU-1C Meas																								
OCU-1C Cert																								
PTC-1a Meas																								
PTC-1a Cert																								
OREAS 13P Meas								2610																
OREAS 13P Cert								2500																
OREAS 14P Meas								8950																
OREAS 14P Cert								9670																
30061 Orig	9	0.18	74	< 10	14	11	0.040																	
30061 Dup	9	0.18	79	< 10	14	11	0.039																	
30055 Orig	33	0.15	68	< 10	10	5	0.757																	
30055 Dup	32	0.15	69	< 10	9	5	0.740																	
28483 Orig	7	0.12	23	< 10	7	13	0.007																	
28483 Dup	7	0.12	23	< 10	8	13	0.007																	
24145 Orig	85	0.02	15	< 10	< 1	1	0.369																	
24145 Dup	83	0.02	15	< 10	< 1	1	0.386																	
27121 Orig	66	0.03	25	< 10	1	1	0.233																	
27121 Dup	69	0.03	25	< 10	1	< 1	0.228																	
27145 Orig	28	0.23	136	< 10	11	3	0.130																	
27145 Dup	29	0.23	137	< 10	11	3	0.127																	
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001																	
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001																	
Method Blank Method								< 1																
Method Blank Method									< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2
Method Blank Method																								
Method Blank Method																								



Date Submitted: 26-May-08
Invoice No.: A08-2665
Invoice Date: 24-Jul-08
Your Reference: DOSSIER #22285

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

71 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2665**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2665 rev 1

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm 0.2	ppm 0.5	ppm 1	ppm 2	ppm 2	ppm 1	ppm 2	ppm 1	% 0.01	ppm 10	ppm 1	ppm 1	ppm 10	% 0.01	ppm 1	ppm 2	% 0.01	% 0.01	% 0.01	% 0.01	% 0.001	ppm 10	ppm 1	ppm 10
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25601	4.9	2.0	2170	716	<2	1220	21	100	4.56	15	6	<1	12	5.57	77	483	7.76	<0.01	5.72	0.01	0.008	<10	8	<10
25602	2.7	6.5	1790	270	<2	1550	6	270	3.06	<10	6	<1	<10	0.79	95	360	5.89	0.01	3.74	0.03	0.009	<10	2	<10
25603	3.2	6.2	2320	308	<2	1160	16	213	3.00	<10	8	<1	<10	1.18	100	328	6.00	0.03	3.60	0.06	0.013	<10	2	<10
25604	5.1	5.3	3800	127	<2	4330	90	187	2.40	<10	5	<1	<10	1.61	125	57	18.4	0.01	0.85	0.06	0.023	<10	2	<10
25605	4.1	5.0	3170	103	<2	2140	48	211	2.35	<10	6	<1	<10	1.31	162	134	9.85	<0.01	1.30	0.07	0.017	<10	1	<10
25606	4.4	6.1	3200	129	<2	1360	38	256	2.22	<10	6	<1	<10	0.86	125	233	7.51	<0.01	2.22	0.06	0.009	<10	2	<10
25607	5.7	7.7	2280	124	<2	1470	224	215	3.48	<10	6	<1	<10	2.12	136	142	7.60	<0.01	1.58	0.09	0.007	<10	1	<10
25608	3.8	5.7	2910	116	<2	1470	101	243	3.38	<10	6	<1	<10	1.92	118	288	7.79	0.01	1.76	0.10	0.006	<10	3	<10
25609	3.8	4.5	2220	99	<2	1260	157	180	3.68	<10	6	<1	<10	2.38	100	168	5.46	0.01	1.18	0.11	0.009	<10	2	<10
25610	<0.2	<0.5	10	10	<2	3	<2	1	0.06	<10	8	<1	<10	0.04	<1	3	0.07	0.01	0.02	0.01	0.004	<10	<1	<10
25611	9.9	17.9	8120	82	<2	1610	238	511	4.41	<10	6	<1	<10	2.82	118	130	8.47	<0.01	0.79	0.18	0.009	<10	1	<10
25612	6.7	10.3	3780	121	<2	1120	260	332	4.68	<10	8	<1	<10	3.64	107	134	6.25	<0.01	0.75	0.23	0.010	<10	1	<10
25613	14.8	17.7	3330	308	<2	825	1070	428	3.89	<10	8	<1	28	2.20	226	106	7.78	0.01	1.70	0.31	0.025	<10	4	<10
25614	11.8	12.9	4270	555	<2	1070	601	542	3.34	<10	16	<1	10	2.24	105	92	5.82	0.05	2.53	0.13	0.019	<10	7	<10
25615	8.7	3.2	1570	427	2	467	636	201	3.18	<10	49	<1	19	1.06	37	53	6.80	0.45	2.21	0.09	0.300	<10	6	<10
25616	5.4	4.5	2960	557	<2	401	132	304	3.70	<10	61	<1	<10	1.23	33	61	6.92	0.51	2.45	0.11	0.047	<10	9	<10
25617	6.6	7.9	5630	472	<2	1020	146	289	2.50	<10	7.3	<1	<10	1.75	93	70	9.07	0.09	1.53	0.09	0.026	<10	4	<10
25618	0.6	1.0	516	376	<2	480	27	152	2.77	<10	47	<1	<10	0.32	43	67	6.62	0.64	1.97	0.04	0.046	<10	7	<10
25619	<0.2	<0.5	26	414	4	9	4	128	3.85	<10	225	<1	<10	0.24	15	82	5.02	1.10	2.35	0.05	0.078	<10	11	<10
25620	0.6	<0.5	1280	272	<2	1330	<2	23	5.48	<10	21	<1	<10	2.58	48	148	3.07	0.02	2.95	0.31	0.003	<10	3	<10
25621	0.5	<0.5	215	134	<2	81	15	11	5.59	<10	19	<1	<10	4.14	12	137	1.05	0.02	0.84	0.56	0.008	<10	3	<10
25622	0.2	<0.5	109	208	<2	86	12	19	3.22	<10	11	<1	<10	2.33	12	176	1.39	0.01	2.58	0.24	0.008	<10	3	<10
25623	0.3	<0.5	121	311	<2	147	8	29	2.30	<10	10	<1	<10	1.07	21	135	2.41	0.03	1.71	0.05	0.005	<10	3	<10
25624	0.6	<0.5	302	169	<2	208	17	27	3.71	<10	14	<1	<10	2.87	18	136	1.49	0.01	0.71	0.33	0.006	<10	3	<10
25625	0.8	<0.5	493	163	<2	251	18	25	5.88	<10	16	<1	<10	4.26	21	144	1.65	0.01	0.75	0.60	0.012	<10	3	<10
25626	1.6	<0.5	1310	200	<2	574	19	22	5.72	<10	15	<1	<10	4.11	49	203	3.12	0.01	0.66	0.50	0.009	<10	4	<10
25627	2.2	0.5	1630	151	<2	647	20	21	5.19	<10	14	<1	<10	3.85	87	130	3.15	0.01	0.78	0.48	0.007	<10	3	<10
25628	0.5	<0.5	256	134	<2	90	23	10	6.03	<10	16	<1	<10	4.30	13	163	1.12	0.01	0.71	0.74	0.009	<10	4	<10
25629	0.4	<0.5	186	84	<2	48	23	8	5.15	<10	14	<1	<10	3.73	8	94	0.68	0.01	0.45	0.58	0.009	<10	2	<10
25630	0.5	<0.5	1370	281	<2	1380	6	24	6.04	<10	21	<1	<10	2.72	50	153	3.24	0.02	3.11	0.34	0.002	<10	3	<10
28446	<0.2	<0.5	106	128	<2	92	10	11	6.40	<10	13	<1	<10	4.49	14	76	1.29	0.04	1.19	0.40	0.010	<10	3	<10
28450	<0.2	<0.5	140	105	<2	76	11	10	5.52	<10	19	<1	<10	3.79	13	80	1.06	0.08	0.97	0.39	0.009	<10	2	<10
28451	1.0	1.4	8620	251	<2	>10000	<2	39	0.55	<10	9	<1	<10	0.39	589	33	31.3	0.11	0.15	0.06	0.046	<10	3	<10
28452	0.2	<0.5	182	115	<2	127	12	8	5.43	<10	8	<1	<10	3.87	13	61	1.13	0.01	0.75	0.55	0.011	<10	3	<10
28453	<0.2	<0.5	97	85	<2	42	11	6	4.61	<10	7	<1	<10	3.36	8	44	0.71	<0.01	0.53	0.47	0.012	<10	2	<10
28454	<0.2	<0.5	55	112	<2	34	14	8	5.27	<10	8	<1	<10	3.84	7	53	0.87	0.01	0.72	0.46	0.009	<10	3	<10
28455	<0.2	<0.5	51	129	<2	45	22	8	6.02	<10	10	<1	<10	4.28	8	62	0.93	0.03	0.83	0.47	0.012	<10	3	<10
28456	<0.2	<0.5	114	247	<2	78	17	24	5.55	<10	9	<1	<10	3.97	13	62	1.66	0.02	1.42	0.31	0.011	<10	3	<10
28457	1.0	<0.5	483	134	<2	290	30	21	6.76	<10	8	<1	<10	6.01	19	121	1.17	0.01	0.86	0.45	0.008	<10	3	<10
28458	0.4	<0.5	241	88	<2	95	23	12	4.08	<10	7	<1	<10	3.02	8	112	0.61	0.01	0.51	0.41	0.005	<10	2	<10
25468	6.0	2.4	2660	49	<2	909	40	59	4.13	<10	21	<1	<10	2.72	85	118	3.49	0.07	0.64	0.37	0.014	<10	2	<10
25469	2.3	1.5	1310	66	<2	1750	48	51	3.95	<10	32	<1	<10	2.10	118	311	7.11	0.29	1.37	0.32	0.007	<10	3	<10
25470	0.8	<0.5	1230	285	<2	1390	<2	23	5.76	<10	21	<1	<10	2.75	52	158	3.23	0.02	3.14	0.33	0.002	<10	3	<10
25471	6.4	3.4	5020	96	<2	1490	105	80	5.18	<10	14	<1	<10	3.23	110	82	5.96	0.05	0.84	0.35	0.012	<10	2	<10
25472	8.2	3.3	4920	89	<2	2000	68	87	5.84	<10	21	<1	<10	3.52	101	180	8.28	0.10	1.07	0.32	0.008	<10	2	<10
25473	<0.2	6.8	2680	110	<2	1250	111	102	5.07	<10	11	<1	<10	3.09	353	168	7.05	0.04	0.98	0.22	0.007	<10	2	<10
26474	10.1	14.2	7920	122	<2	1620	137	622	4.60	<10	8	<1	<10	2.90	105	119	7.88	0.02	0.71	0.27	0.009	<10	2	<10
25475	3.9	9.1	2180	340	<2	712	234	429	3.17	<10	15	<1	<10	0.92	56	101	6.55	0.05	2.19	0.14	0.019	<10	5	<10
25476	0.5	2.5	359	298	<2	165	46	184	2.45	<10	75	<1	<10	0.98	28	68	4.83	0.40	1.75	0.10	0.091	<10	7	<10
25477	16.8	42.6	>10000	149	<2	5300	71	1540	1.09	<10	7	<1	<10	0.26	283	36	24.4	0.23	0.70	0.06	0.026	<10	2	16
25411	14.3	6.8	6500	125	<2	1560	122	119	4.87	<10	10	<1	<10	3.31	125	209	6.86	0.01	0.68	0.39	0.007	<10	3	<10
25412	17.0	6.8	7960	158	<2	2110	113	123	4.02	<10	9	<1	<10	2.53	153	161	6.36	0.01	0.84	0.35	0.018	<10	2	<10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25413	10.2	4.3	4250	192	< 2	1230	137	92	4.33	< 10	10	< 1	< 10	2.88	115	176	5.50	0.03	1.33	0.31	0.008	< 10	3	< 10
25414	7.0	7.5	3490	84	< 2	466	129	83	5.61	< 10	10	< 1	< 10	4.26	31	101	2.61	0.04	0.61	0.29	0.008	< 10	2	< 10
25415	5.7	8.0	3020	115	< 2	588	133	98	5.50	< 10	7	< 1	< 10	3.84	45	138	3.38	0.01	0.93	0.40	0.010	< 10	3	< 10
25416	0.5	< 0.5	147	59	< 2	26	122	14	4.68	< 10	7	< 1	< 10	3.49	4	86	0.48	< 0.01	0.36	0.51	0.009	< 10	2	< 10
25417	4.5	2.0	1290	78	< 2	365	172	40	5.98	< 10	8	< 1	< 10	4.50	26	92	1.16	0.01	0.63	0.42	0.008	< 10	3	< 10
25418	7.8	4.0	1970	49	< 2	205	228	65	6.44	< 10	13	< 1	< 10	4.71	19	76	1.00	0.04	0.44	0.40	0.009	< 10	2	< 10
25419	13.0	9.8	3320	73	< 2	303	145	149	3.02	< 10	12	< 1	< 10	1.50	29	74	2.71	0.04	0.64	0.23	0.014	< 10	2	< 10
25420	0.7	< 0.5	1490	304	< 2	1630	< 2	24	5.99	< 10	18	< 1	< 10	2.86	53	143	3.20	0.03	3.18	0.36	0.002	< 10	3	< 10
25792	3.7	2.8	1020	114	< 2	227	37	54	2.57	< 10	5	< 1	< 10	0.77	30	72	2.02	< 0.01	2.46	0.06	0.007	< 10	< 1	< 10
26763	0.2	< 0.5	169	178	< 2	273	< 2	30	3.67	< 10	8	< 1	< 10	1.39	33	102	2.68	0.01	3.66	0.09	0.009	< 10	1	< 10
25794	< 0.2	< 0.5	62	120	< 2	73	6	10	8.66	< 10	37	< 1	< 10	4.40	12	232	1.29	0.09	1.21	0.63	0.005	< 10	2	< 10
25795	< 0.2	< 0.5	45	90	< 2	97	3	7	6.10	< 10	43	< 1	< 10	4.19	13	220	1.03	0.10	1.05	0.49	0.005	< 10	2	< 10
25796	< 0.2	< 0.5	47	81	< 2	37	< 2	9	5.26	< 10	11	< 1	< 10	3.90	6	112	0.67	0.01	0.60	0.49	0.006	< 10	1	< 10
25797	< 0.2	< 0.5	104	103	< 2	61	< 2	7	5.66	< 10	9	< 1	< 10	4.30	11	122	0.90	0.01	0.88	0.53	0.009	< 10	2	< 10
25798	< 0.2	< 0.5	70	131	< 2	16	< 2	26	2.31	< 10	113	< 1	< 10	0.15	6	113	1.65	0.27	1.24	0.06	0.008	< 10	3	< 10
26799	0.5	< 0.5	146	64	< 2	48	3	7	6.08	< 10	9	< 1	< 10	4.46	6	78	0.64	< 0.01	0.40	0.63	0.006	< 10	2	< 10
25600	1.0	1.6	8220	265	< 2	> 10000	< 2	40	0.54	< 10	5	< 1	< 10	0.39	586	32	30.5	0.11	0.16	0.08	0.045	< 10	3	< 10
26768	< 0.2	< 0.5	40	108	< 2	61	4	10	7.63	< 10	16	< 1	< 10	6.26	9	86	1.11	0.04	0.76	0.71	0.007	< 10	3	< 10
26789	< 0.2	< 0.5	77	184	< 2	40	< 2	11	2.71	< 10	34	< 1	< 10	2.23	12	92	1.57	0.03	0.92	0.23	0.020	< 10	6	< 10

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Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Hg	Ag	Cu	Zn	Pb	Ni	Ca	Co	Mn	Fe	Li
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%
Detection Limit	1	0.01	1	10	1	1	0.001				0.001			0.003					
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	TD-ICP
25601	15	0.02	52	< 10	2	2	0.912												
25602	3	0.02	21	< 10	< 1	2	1.598												
25603	7	0.02	23	< 10	< 1	3	1.778												
25604	40	0.02	22	< 10	2	6	4.401												
25605	30	0.01	21	< 10	< 1	3	4.817												
25606	13	0.01	24	< 10	< 1	3	3.223												
25607	50	< 0.01	16	< 10	< 1	3	3.454												
25608	42	0.02	22	< 10	< 1	3	3.343												
25609	53	0.01	17	< 10	< 1	2	3.206												
25610	2	< 0.01	< 1	< 10	< 1	4	0.024												
25611	38	< 0.01	25	< 10	< 1	3	3.846												
25612	39	< 0.01	31	< 10	< 1	2	3.215												
25613	29	0.02	76	< 10	2	3	3.490												
25614	19	0.02	60	< 10	2	3	3.183												
25615	13	0.07	42	< 10	5	7	1.741												
25616	14	0.12	66	< 10	7	6	1.401												
25617	12	0.03	52	< 10	4	4	2.989												
25618	5	0.11	49	< 10	6	7	2.004												
25619	8	0.19	76	< 10	5	6	0.034												
25620	62	0.02	31	< 10	< 1	1	0.443				0.150			0.151					
25381	98	0.02	19	< 10	< 1	< 1	0.148												
25382	52	0.07	28	< 10	2	< 1	0.097												
25383	17	0.07	41	< 10	2	1	0.236												
25384	81	0.06	28	< 10	2	1	0.360												
25385	96	0.03	22	< 10	< 1	< 1	0.462												
25386	94	0.03	29	< 10	< 1	1	1.214												
25387	83	0.02	24	< 10	< 1	1	1.493												
25388	97	0.03	26	< 10	< 1	< 1	0.166												
25389	79	0.02	16	< 10	< 1	< 1	0.090												
25390	65	0.01	32	< 10	< 1	1	0.463												
26449	62	0.04	29	< 10	< 1	< 1	0.052												
28450	90	0.03	22	< 10	< 1	< 1	0.062												
28451	15	0.08	60	< 10	16	16	6.255												
28452	94	0.04	26	< 10	1	< 1	0.101												
28453	84	0.02	18	< 10	< 1	< 1	0.048												
28454	92	0.03	23	< 10	< 1	< 1	0.030												
28455	112	0.03	24	< 10	< 1	< 1	0.036												
28456	90	0.03	30	< 10	< 1	< 1	0.054												
28457	121	0.02	23	< 10	< 1	< 1	0.188												
28458	72	< 0.01	11	< 10	< 1	< 1	0.032												
25468	44	0.02	23	< 10	< 1	1	1.870												
25469	30	0.06	99	< 10	< 1	3	3.523												
25470	65	0.02	33	< 10	< 1	1	0.475				0.153			0.157					
25471	41	0.02	29	< 10	< 1	2	3.198												
25472	48	0.03	36	< 10	< 1	3	3.749												
25473	38	0.02	35	< 10	< 1	2	3.468												
26474	37	0.01	41	< 10	< 1	3	3.131												
25475	12	0.08	68	< 10	6	3	1.846												
25476	10	0.14	99	< 10	9	3	0.612												
25477	4	0.05	66	13	3	8	8.419												
25411	77	0.02	49	< 10	< 1	2	2.557												
25412	57	0.02	37	< 10	< 1	3	3.178												

Activation Laboratories Ltd.

Report: A08-2665 rev 1

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Hg	Ag	Cu	Zn	Pb	Ni	Cd	Co	Mn	Fe	Li
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%
Detection Limit	1	0.01	1	10	1	1	0.001				0.001			0.003					
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	TD-ICP
25413	55	0.03	33	< 10	< 1	2	2.359												
25414	76	0.02	18	< 10	< 1	1	1.114												
25415	69	0.02	18	< 10	< 1	2	1.408												
25416	71	0.01	10	< 10	< 1	< 1	0.051												
25417	89	0.01	14	< 10	< 1	< 1	0.449												
25418	64	0.02	29	< 10	< 1	< 1	0.412												
25419	20	0.04	56	< 10	1	1	1.112												
25420	62	0.02	33	< 10	< 1	1	0.467												
25792	7	0.01	13	< 10	< 1	< 1	0.191												
25793	62	0.02	16	< 10	< 1	< 1	0.033												
25794	104	0.03	24	< 10	< 1	< 1	0.045												
25795	137	0.03	18	< 10	< 1	< 1	0.049												
25796	84	0.01	13	< 10	< 1	< 1	0.031												
25797	86	0.02	15	< 10	< 1	< 1	0.043												
25798	7	0.06	15	< 10	2	3	0.027												
25799	103	0.01	11	< 10	< 1	< 1	0.072												
25800	15	0.08	59	< 10	16	16	8.860				0.989				2.10				
25788	183	0.03	22	< 10	1	< 1	0.046												
25789	47	0.08	42	< 10	3	< 1	0.034												

Activation Laboratories Ltd. Report: A08-2665 rev 1

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GXR-1 Meas	22.8	3.2	987	887	12	17	521	549	0.52	287	274	<1	1260	0.78	9	5	20.4	0.03	0.14	0.05	0.030	84	<1	25
GXR-1 Cert	31.0	3.30	1110	952	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.2	0.6	5990	132	320	36	43	51	2.74	91	29	1	16	0.89	15	54	3.20	1.29	1.55	0.11	0.106	<10	6	<10
GXR-4 Cert	4.00	0.600	6020	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR 2 Meas	18.8	4.6	80	1080	<2	16	779	571	3.46	15	939	1	<10	0.76	10	26	2.06	0.51	0.52	0.13	0.055	33	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
KC-1A Meas																								
KC-1A Cert																								
GZN 3 Meas																								
GZN-3 Cert																								
GXR-6 Meas	0.3	0.8	63	393	<2	17	92	114	7.15	223	812	<1	<10	0.16	15	82	5.61	0.83	0.35	0.06	0.031	<10	23	<10
GXR-6 Cert	1.30	1.00	65.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	95.0	5.56	1.87	0.605	0.104	0.0350	3.60	27.6	1.70
OCU-1C Meas																								
OCU-1C Cert																								
PTC-1a Meas																								
PTC-1a Cert																								
OREAS 13P Meas																								
OREAS 13P Cert																								
OREAS 14P Meas																								
OREAS 14P Cert																								
25603 Org	3.0	5.6	2290	295	<2	1120	18	211	3.07	<10	8	<1	<10	1.14	67	319	5.77	0.03	3.48	0.06	0.012	<10	2	<10
25603 Dup	3.3	6.4	2360	317	<2	1210	13	215	3.11	<10	8	<1	<10	1.21	102	336	5.23	0.03	3.72	0.06	0.013	<10	2	<10
26386 Org	1.5	<0.5	1220	194	<2	643	18	21	5.48	<10	15	<1	<10	3.98	46	159	2.99	0.01	0.98	0.40	0.009	<10	4	<10
26386 Dup	1.7	0.8	1400	205	<2	605	20	23	5.55	<10	15	<1	<10	4.25	51	208	3.24	0.01	1.03	0.52	0.010	<10	4	<10
28458 Org	0.4	<0.5	240	84	<2	93	22	12	3.88	<10	7	<1	<10	2.97	8	110	0.60	0.01	0.50	0.40	0.005	<10	2	<10
28458 Dup	0.4	<0.5	241	91	<2	96	24	11	4.15	<10	7	<1	<10	3.07	8	114	0.62	0.01	0.52	0.42	0.004	<10	2	<10
26413 Org	10.1	4.3	4280	197	<2	1220	139	91	4.31	<10	10	<1	<10	2.85	116	177	6.50	0.03	1.32	0.31	0.008	<10	3	<10
26413 Dup	10.3	4.3	4210	194	<2	1230	136	92	4.34	<10	10	<1	<10	2.90	114	175	5.51	0.03	1.34	0.32	0.008	<10	3	<10
25789 Org	<0.2	<0.5	71	135	<2	16	<2	25	2.35	<10	115	<1	<10	0.16	5	116	1.66	0.27	1.25	0.05	0.008	<10	3	<10
25789 Dup	<0.2	<0.5	69	128	<2	16	<2	26	2.25	<10	111	<1	<10	0.14	5	107	1.62	0.27	1.22	0.06	0.008	<10	3	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method																								
Blank																								
Method Blank Method																								
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Cu	Ni
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%
Detection Limit	1	0.01	1	10	1	1	0.001	1	0.001	0.003
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES
GXR-1 Meas	139		84	114	20	17	0.169	1140		
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257	1110		
GXR-4 Meas	55		79	13	11	9	1.738	6010		
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77	6520		
GXR-2 Meas	78		48	< 10	11	10	0.036	86		
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313	76.0		
KC-1A Meas									0.641	
KC-1A Cert									0.628	
GZN-3 Meas									0.684	
GZN-3 Cert									0.685	
GXR-6 Meas	28		158	< 10	6	13	0.016	68		
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160	66.0		
OCU-1C Meas									25.6	
OCU-1C Cert									25.5	
PTC-1a Meas									13.5	10.3
PTC-1a Cert									13.5	10.1
OREAS 13P Meas								2810	0.250	0.227
OREAS 13P Cert								2500	0.250	0.226
OREAS 14P Meas								8950	0.902	2.08
OREAS 14P Cert								9970	0.997	2.10
25603 Orig	7	0.02	23	< 10	< 1	3	1.730			
25603 Dup	7	0.02	24	< 10	< 1	3	1.827			
26385 Orig	90	0.03	28	< 10	< 1	1	1.176			
26385 Dup	98	0.03	30	< 10	< 1	1	1.254			
28458 Orig	70	< 0.01	10	< 10	< 1	< 1	0.090			
28458 Dup	75	< 0.01	11	< 10	< 1	< 1	0.093			
26413 Orig	54	0.03	33	< 10	< 1	2	2.283			
26413 Dup	56	0.03	33	< 10	< 1	2	2.434			
25799 Orig	8	0.05	15	< 10	2	3	0.025			
25799 Dup	7	0.06	16	< 10	2	3	0.028			
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001			
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001			
Method Blank Method Blank								< 1		
Method Blank Method Blank								< 0.001	< 0.003	



Date Submitted: 26-May-08
Invoice No.: A08-2665 Repeats
Invoice Date: 27-Nov-08
Your Reference: DOSSIER #22285

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

71 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT A08-2665 Repeats

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Analyte Symbol	Cu	Ni
Unit Symbol	ppm	ppm
Detection Limit	1	1
Analysis Method	AR-ICP	AR-ICP
25367	1710	728
26388	254	90
25380	253	58
26390	1470	1480
28446	108	92
28450	161	77
28451		
28452	127	59
28453	109	42
28454	67	36
28455	61	50

Quality Control

Analyte Symbol	Cu	Ni
Unit Symbol	ppm	ppm
Detection Limit	1	1
Analysis Method	AR-ICP	AR-ICP
GXR-1 Meas	1030	28
GXR-1 Cert	1110	41.0
GXR-4 Meas	5530	40
GXR-4 Cert	5520	42.0
GXR-2 Meas	85	16
GXR-2 Cert	76.0	21.0
GXR-6 Meas	74	20
GXR-6 Cert	66.0	27.0
OREAS 13P Meas	2420	2350
OREAS 13P Cert	2500	2260
Method Blank Method Blank	< 1	< 1
Method Blank Method Blank	< 1	< 1
Method Blank Method Blank	< 1	< 1



Date Submitted: 26-May-08
Invoice No.: A08-2664
Invoice Date: 24-Jul-08
Your Reference: DOSSIER #22286

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

63 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2664**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A08-2664 rev 1

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
25391	1.5	0.6	770	131	<2	429	27	19	6.06	<10	19	<1	<10	4.34	29	128	2.17	0.01	0.74	0.67	0.009	<10	4	<10
25392	3.7	1.6	2080	183	<2	686	27	30	6.23	<10	24	<1	<10	4.56	50	140	3.50	0.01	0.97	0.59	0.008	<10	5	<10
25393	2.5	1.0	1600	123	<2	702	29	21	5.60	<10	23	<1	<10	4.01	56	91	3.13	0.01	0.70	0.55	0.006	<10	3	<10
25394	0.8	<0.5	437	120	<2	187	29	16	6.08	<10	16	<1	<10	4.42	20	113	1.42	0.03	0.78	0.60	0.006	<10	4	<10
25395	0.7	<0.5	331	106	<2	210	37	15	6.68	<10	13	<1	<10	4.49	17	117	1.27	0.01	0.76	0.75	0.006	<10	4	<10
25396	0.2	<0.5	66	152	<2	139	35	40	5.87	<10	94	<1	<10	3.23	17	301	2.70	0.39	2.25	0.38	0.003	<10	5	<10
25397	<0.2	<0.5	76	163	<2	138	35	42	5.73	<10	95	<1	<10	3.36	17	314	2.86	0.40	2.39	0.39	0.003	<10	6	<10
25398	1.5	1.0	707	147	<2	243	43	28	5.97	<10	18	<1	<10	4.22	27	121	1.83	0.04	0.88	0.61	0.010	<10	4	<10
25399	3.2	1.7	1390	154	<2	687	46	40	4.96	<10	13	<1	<10	3.50	48	107	3.11	0.01	0.83	0.48	0.006	<10	3	<10
26400	1.1	1.4	8000	270	<2	>10000	3	42	0.65	<10	7	<1	<10	0.40	604	34	32.8	0.11	0.17	0.06	0.047	<10	4	<10
25421	23.2	31.0	9680	138	<2	2350	845	372	2.88	<10	13	<1	37	0.78	90	92	11.7	0.38	1.92	0.14	0.014	<10	8	<10
25422	7.8	9.1	3520	137	<2	1390	160	171	2.71	<10	25	<1	<10	0.74	149	63	6.72	0.13	1.21	0.13	0.020	<10	2	<10
25423	13.0	7.8	2330	210	<2	1260	798	171	2.62	<10	27	<1	45	1.54	91	54	7.64	0.14	1.14	0.14	0.019	<10	3	<10
25424	8.5	3.2	2780	117	<2	2670	367	154	1.70	<10	21	<1	25	1.01	189	37	13.1	0.07	0.51	0.13	0.017	<10	2	<10
25425	9.8	6.0	2370	160	<2	3310	491	338	2.69	<10	11	<1	27	0.82	166	58	17.1	0.41	1.24	0.22	0.025	<10	3	<10
25426	14.5	13.9	1700	369	<2	776	810	480	3.88	<10	31	<1	99	0.32	56	104	7.60	0.38	2.72	0.11	0.022	<10	6	<10
25427	14.5	20.3	9600	626	<2	3770	237	857	3.09	<10	11	<1	11	0.75	356	69	23.3	0.25	2.43	0.05	0.029	<10	8	12
26428	0.4	0.8	197	539	<2	80	26	76	3.48	<10	135	<1	<10	0.66	15	77	5.35	0.63	2.62	0.06	0.083	<10	10	<10
25429	<0.2	<0.5	102	535	<2	31	17	97	3.45	<10	137	<1	<10	0.58	13	49	4.81	0.85	2.44	0.07	0.074	<10	7	<10
25430	<0.2	<0.5	5	12	<2	<1	<2	2	0.04	<10	8	<1	<10	0.04	<1	2	0.65	0.01	0.02	0.01	0.004	<10	<1	<10
25441	<0.2	<0.5	35	407	<2	8	5	57	2.18	<10	85	<1	<10	0.34	8	82	3.37	0.41	1.40	0.04	0.027	<10	3	<10
25442	<0.2	<0.5	16	546	8	15	<2	81	2.67	<10	81	<1	<10	0.43	9	100	4.06	0.55	1.63	0.05	0.012	<10	3	<10
25443	<0.2	<0.5	8	413	<2	13	4	34	1.85	<10	43	<1	<10	0.45	6	100	2.59	0.29	1.16	0.03	0.018	<10	2	<10
25444	<0.2	<0.5	121	432	<2	10	5	40	1.70	<10	37	<1	<10	0.46	6	113	2.52	0.22	1.08	0.02	0.019	<10	<1	<10
25445	<0.2	<0.5	114	660	9	12	3	69	2.50	<10	157	<1	<10	0.49	8	88	3.71	0.47	1.49	0.05	0.052	<10	5	<10
26446	<0.2	<0.5	106	733	<2	30	2	132	3.83	<10	322	<1	<10	0.66	16	78	5.80	1.00	2.21	0.06	0.057	<10	11	<10
25447	0.2	<0.5	130	809	<2	42	4	241	4.28	<10	415	<1	<10	1.27	20	88	5.80	1.21	2.84	0.08	0.058	<10	14	<10
27162	<0.2	<0.5	80	97	<2	168	<2	15	7.90	<10	39	<1	<10	6.57	19	127	1.40	0.08	1.12	0.38	0.097	<10	2	<10
27163	0.2	<0.5	78	75	<2	139	3	10	8.22	<10	34	<1	<10	6.83	17	124	1.18	0.08	0.55	0.41	0.006	<10	1	<10
27164	0.2	<0.5	314	467	<2	36	<2	31	3.65	<10	15	<1	<10	3.38	24	74	3.94	0.03	1.21	0.45	0.060	<10	12	<10
27165	<0.2	<0.5	147	77	<2	97	2	7	6.28	<10	21	<1	<10	4.20	14	140	0.96	0.03	0.69	0.70	0.007	<10	2	<10
27166	0.5	<0.5	1160	73	<2	189	3	24	8.39	<10	64	<1	<10	4.79	43	628	3.92	0.49	2.12	0.56	0.003	<10	4	<10
27167	<0.2	<0.5	187	62	<2	127	<2	8	6.64	<10	33	<1	<10	4.29	15	162	1.10	0.07	0.75	0.67	0.002	<10	2	<10
27168	0.3	<0.5	207	111	<2	53	<2	9	6.47	<10	15	<1	<10	4.44	8	146	0.94	0.02	0.67	0.81	0.007	<10	3	<10
27169	<0.2	<0.5	35	72	<2	47	3	8	5.33	<10	43	<1	<10	3.42	8	167	0.86	0.17	0.81	0.68	0.008	<10	2	<10
27170	0.7	<0.5	1580	314	<2	1650	<2	24	6.03	<10	20	<1	<10	2.93	54	147	3.36	0.03	3.31	0.33	0.003	<10	3	<10
27171	<0.2	<0.5	162	416	<2	43	<2	27	3.24	<10	127	<1	<10	2.71	27	80	4.00	0.22	1.38	0.22	0.045	<10	10	<10
25458	2.0	0.8	536	188	<2	116	29	29	8.35	<10	18	<1	<10	5.57	18	133	1.67	0.03	1.03	0.75	0.009	<10	3	<10
26459	3.4	0.9	1030	202	<2	197	18	36	7.27	<10	29	<1	<10	4.84	29	168	2.25	0.08	1.61	0.42	0.011	<10	3	<10
25480	<0.2	<0.5	11	10	<2	1	2	2	0.12	<10	9	<1	<10	0.07	1	3	0.06	0.01	0.02	0.02	0.004	<10	<1	<10
25461	7.0	1.1	2070	157	<2	140	17	30	5.77	<10	12	<1	<10	3.92	21	94	1.67	0.02	1.04	0.51	0.009	<10	2	<10
25462	0.4	<0.5	190	217	<2	100	16	12	5.77	<10	28	<1	<10	4.28	17	146	2.10	0.02	0.94	0.59	0.029	<10	6	<10
25463	1.4	0.6	1110	148	<2	605	20	15	4.84	<10	38	<1	<10	3.43	51	108	3.31	0.02	0.74	0.58	0.014	<10	4	<10
25464	1.2	<0.5	876	244	<2	481	18	19	5.00	<10	34	<1	<10	3.46	50	144	3.72	0.03	1.20	0.54	0.023	<10	5	<10
25465	1.7	<0.5	1510	198	<2	686	17	20	4.81	<10	57	<1	<10	3.21	77	138	4.32	0.04	0.95	0.52	0.017	<10	4	<10
25466	0.3	<0.5	206	232	<2	110	16	19	3.40	<10	13	<1	<10	2.63	20	100	1.89	0.02	1.07	0.32	0.017	<10	6	<10
26467	6.3	3.1	3900	170	<2	864	47	59	5.05	<10	18	<1	<10	3.21	69	194	3.92	0.06	1.75	0.26	0.010	<10	2	<10
26011	0.6	<0.5	388	453	<2	310	8	49	3.04	<10	13	<1	<10	2.21	34	86	8.41	0.07	1.20	0.22	0.107	<10	12	<10
26012	<0.2	<0.5	215	531	<2	15	<2	75	2.75	<10	28	<1	<10	1.73	21	42	7.82	0.23	1.67	0.09	0.145	<10	15	<10
26013	<0.2	<0.5	86	523	<2	7	2	59	2.27	<10	14	<1	<10	1.51	21	69	6.11	0.09	1.20	0.06	0.094	<10	11	<10
25498	<0.2	<0.5	43	698	9	2	12	93	3.85	<10	183	<1	<10	1.28	14	35	5.10	1.23	2.28	0.04	0.075	<10	11	<10
25499	<0.2	<0.5	47	690	<2	6	11	92	3.60	<10	142	<1	<10	1.50	15	66	4.83	0.87	2.05	0.04	0.084	<10	11	<10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25500	1.1	1.4	810	289	< 2	> 10000	3	43	0.52	< 10	8	< 1	< 10	0.40	621	34	33.1	0.12	0.18	0.06	0.048	10	4	< 10
28442	6.6	2.8	2380	242	< 2	143	3	69	2.63	11	49	< 1	< 10	0.46	26	63	6.39	0.86	2.65	0.06	0.021	< 10	6	13
28443	3.8	2.0	1430	117	2	43	3	32	1.92	< 10	54	< 1	< 10	0.22	9	91	1.83	0.18	1.21	0.06	0.015	< 10	2	< 10
28444	14.2	4.6	6190	75	< 2	169	2	59	1.51	< 10	42	< 1	< 10	0.13	34	87	3.61	0.16	1.23	0.04	0.015	< 10	2	< 10
28445	24.7	2.5	> 10000	173	< 2	82	4	62	2.38	< 10	46	< 1	< 10	1.33	10	77	3.73	0.14	1.38	0.15	0.016	< 10	2	< 10
28446	0.4	< 0.5	253	228	< 2	87	5	13	5.38	< 10	11	< 1	< 10	4.16	15	72	1.59	0.02	1.07	0.35	0.011	< 10	3	< 10
28447	0.2	< 0.5	121	278	< 2	112	5	17	4.45	< 10	9	< 1	< 10	3.29	21	107	2.11	0.02	1.57	0.31	0.009	< 10	4	< 10
28448	0.3	< 0.5	133	130	< 2	111	9	12	5.67	< 10	12	< 1	< 10	4.11	16	62	1.32	0.03	1.16	0.36	0.011	< 10	2	< 10
28459	4.1	1.3	2140	99	< 2	394	20	37	3.56	< 10	32	< 1	< 10	2.45	44	133	2.03	0.09	0.95	0.30	0.026	< 10	3	< 10
28460	< 0.2	< 0.5	13	10	< 2	2	< 2	2	0.06	< 10	8	< 1	< 10	0.06	< 1	3	0.06	0.01	0.02	0.01	0.004	< 10	< 1	< 10
28461	2.2	1.1	1630	149	< 2	707	32	49	5.63	< 10	13	< 1	< 10	4.12	57	117	3.39	0.04	1.24	0.33	0.013	< 10	2	< 10

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Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm		
Detection Limit	1	0.01	1	10	1	1	0.001		0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
25391	97	0.02	22	< 10	< 1	1	0.791																		
26362	96	0.03	30	< 10	1	2	1.448																		
25593	89	0.02	20	< 10	< 1	1	1.429																		
26394	90	0.02	23	< 10	< 1	< 1	0.347																		
26395	76	0.02	22	< 10	1	< 1	0.279																		
26396	48	0.08	77	< 10	2	< 1	0.111																		
26397	49	0.08	79	< 10	3	< 1	0.100																		
26398	71	0.03	30	< 10	1	1	0.917																		
26399	72	0.02	24	< 10	< 1	2	1.321																		
26400	16	0.08	62	< 10	17	19	6.167																		
26421	10	0.07	106	< 10	2	4	4.472																		
26422	10	0.05	103	< 10	2	3	3.339																		
26423	7	0.05	61	< 10	3	3	2.780																		
26424	6	0.03	73	< 10	2	4	5.192																		
26425	14	0.07	81	< 10	3	5	5.547																		
26426	17	0.07	116	< 10	3	3	1.874																		
26427	8	0.10	96	< 10	6	7	7.368																		
26428	16	0.21	70	< 10	16	6	0.179																		
26429	17	0.18	61	< 10	12	6	0.137																		
26430	1	< 0.01	< 1	< 10	1	4	0.019																		
26441	7	0.09	19	< 10	19	11	0.026																		
26442	9	0.09	14	< 10	16	12	0.015																		
26443	7	0.06	7	< 10	19	11	0.012																		
26444	3	0.03	3	< 10	24	14	0.022																		
26445	10	0.10	26	< 10	13	13	0.034																		
26446	12	0.20	67	< 10	7	7	0.117																		
26447	12	0.24	117	< 10	7	6	0.037																		
27162	200	0.04	36	< 10	< 1	< 1	0.123																		
27163	212	0.03	32	< 10	< 1	< 1	0.116																		
27164	61	0.12	110	< 10	10	2	0.336																		
27165	100	0.02	17	< 10	< 1	< 1	0.190																		
27166	115	0.07	70	< 10	< 1	1	1.159																		
27167	100	0.02	17	< 10	< 1	< 1	0.246																		
27168	120	0.03	21	< 10	< 1	< 1	0.072																		
27169	98	0.04	19	< 10	< 1	< 1	0.025																		
27170	65	0.02	33	< 10	< 1	1	0.472																		
27171	89	0.18	109	< 10	9	2	0.292																		
26458	114	0.03	28	< 10	1	< 1	0.239																		
26459	90	0.05	32	< 10	< 1	< 1	0.396																		
26460	2	< 0.01	< 1	< 10	< 1	4	0.020	< 0.2	< 0.5	3	14	< 2	< 1	2	1	0.05	< 10	10	< 1	< 10	0.04	< 1	2		
26461	74	0.02	19	< 10	< 1	< 1	0.389																		
26462	95	0.08	60	< 10	3	2	0.229																		
26463	81	0.03	32	< 10	1	1	1.333																		
26464	75	0.05	40	< 10	2	2	1.202																		
26465	74	0.08	45	< 10	2	2	1.709																		
26466	40	0.05	36	< 10	2	1	0.243																		
26467	66	0.03	24	< 10	< 1	1	1.446																		
26011	45	0.11	90	< 10	21	4	0.871																		
26012	26	0.13	105	< 10	28	5	0.396																		
26013	24	0.15	72	< 10	21	4	0.207																		
26498	9	0.27	73	< 10	10	5	0.084																		
26499	11	0.26	67	< 10	14	6	0.122																		

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Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	1	0.01	1	10	1	1	0.001		0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25500	15	0.09	63	< 10	17	19	8.797																	
28442	9	0.14	77	< 10	4	4	0.990																	
28443	8	0.05	16	< 10	4	4	0.321																	
28444	6	0.04	14	< 10	4	3	1.626																	
28445	22	0.04	23	< 10	3	3	1.477																	
28446	71	0.04	31	< 10	1	< 1	0.111																	
28447	61	0.05	36	< 10	2	1	0.118																	
28448	85	0.03	26	< 10	< 1	< 1	0.078																	
28456	50	0.02	21	< 10	4	2	0.693																	
28460	2	< 0.01	< 1	< 10	1	4	0.020		< 0.2	< 0.6	4	11	< 2	1	2	2	0.03	< 10	10	< 1	< 10	0.04	< 1	2
28461	93	0.02	20	< 10	1	1	1.214																	

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Analyte Symbol	Fe	K	Mg	Na	P	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zr	S	Hg	Ag	Cu	Zn	Pb	Ni	Cd	Co	Mn
Unit Symbol	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	%	%
Detection Limit	0.01	0.01	0.01	0.01	0.001	10	1	10	1	0.01	1	10	1	1	0.001			0.001			0.003			
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES
25391																								
26392																								
25393																								
26394																								
26395																								
26396																								
26397																								
26398																								
25399																								
26400																		0.899				2.11		
25421																								
26422																								
26423																								
26424																								
26425																								
26426																								
26427																								
26428																								
26429																								
26430																								
26441																								
26442																								
26443																								
26444																								
26445																								
26446																								
26447																								
27162																								
27163																								
27164																								
27165																								
27166																								
27167																								
27168																								
27169																								
27170																								
27171																								
26458																								
26459																								
26460	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10	2	< 0.01	< 1	< 10	1	4	0.018									
26461																								
26462																								
26463																								
26464																								
26465																								
26466																								
26467																								
26011																								
26012																								
26013																								
26498																								
26499																								

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Analyte Symbol	Fe	K	Mg	Na	P	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zr	S	Hg	Ag	Cu	Zn	Pb	Ni	Cd	Co	Mn
Unit Symbol	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	%	%
Detection Limit	0.01	0.01	0.01	0.01	0.001	10	1	10	1	0.01	1	10	1	1	0.001			0.001				0.003		
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES
25500																		0.349					2.09	
28442																								
28443																								
28444																								
28445																								
28446																								
28447																								
28448																								
28459																								
28460	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10	2	< 0.01	< 1	< 10	1	4	0.019									
28461																								

Analyte Symbol	Fe	Li
Unit Symbol	%	%
Detection Limit		
Analysis Method	ICP-OES	TD-ICP

- 25391
- 26392
- 25393
- 26394
- 26395
- 25396
- 26397
- 26398
- 25399
- 26400
- 25421
- 26422
- 26423
- 25424
- 26425
- 26426
- 25427
- 26428
- 26429
- 25430
- 26441
- 25442
- 26443
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- 27162
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- 27169
- 27170
- 27171
- 25458
- 26459
- 26460
- 25461
- 25462
- 25463
- 25464
- 25465
- 25466
- 26467
- 26011
- 26012
- 26013
- 25498
- 26499

Analyte Symbol	Fe	Li
Unit Symbol	%	%
Detection Limit		
Analysis Method	ICP-OES	TD-ICP

- 28500
- 28442
- 28443
- 28444
- 28445
- 28446
- 28447
- 28448
- 28459
- 28460
- 28481

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GXR-1 Meas	26.7	3.5	1100	780	15	22	595	516	0.33	349	219	<1	1480	0.79	7	6	25.1	0.02	0.14	0.04	0.036	85	1	24
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.4	0.6	6020	141	329	36	43	58	2.72	96	35	1	33	0.92	15	56	3.46	1.38	1.68	0.11	0.120	<10	7	<10
GXR-4 Cert	4.00	0.660	6020	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.5	4.8	81	1120	<2	15	781	576	3.58	12	1180	1	<10	0.83	10	27	2.24	0.96	0.55	0.15	0.060	38	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
KC-1A Meas																								
KC-1A Cert																								
GZN-3 Meas																								
GZN-3 Cert																								
GXR-6 Meas	0.3	< 0.5	61	1000	< 2	17	89	111	6.77	236	918	< 1	< 10	0.18	14	79	6.01	0.87	0.39	0.06	0.031	< 10	23	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.56	1.87	0.605	0.104	0.0350	3.60	27.6	1.70
OCU-1C Meas																								
OCU-1C Cert																								
PTC-1a Meas																								
PTC-1a Cert																								
OREAS 13P Meas			2480			2150												5.62						
OREAS 13P Cert			2500			2260												7.58						
OREAS 14P Meas																								
OREAS 14P Cert																								
25597 Orig	0.2	< 0.5	63	165	< 2	142	34	43	5.66	< 10	84	< 1	< 10	3.38	19	317	2.90	0.40	2.42	0.38	0.003	< 10	6	< 10
25597 Dup	< 0.2	< 0.5	69	160	< 2	135	36	41	5.57	< 10	97	< 1	< 10	3.34	17	311	2.82	0.39	2.36	0.38	0.003	< 10	6	< 10
26441 Orig	< 0.2	< 0.5	37	401	< 2	8	6	58	2.18	< 10	85	< 1	< 10	0.34	8	82	3.40	0.41	1.40	0.04	0.028	< 10	3	< 10
26441 Dup	< 0.2	< 0.5	33	401	< 2	8	5	57	2.17	< 10	85	< 1	< 10	0.34	8	83	3.35	0.41	1.35	0.04	0.027	< 10	3	< 10
27168 Orig	0.3	< 0.5	212	117	< 2	54	2	9	6.62	< 10	15	< 1	< 10	4.47	9	148	0.95	0.02	0.67	0.63	0.007	< 10	3	< 10
27168 Dup	0.2	< 0.5	202	105	< 2	53	< 2	9	6.32	< 10	15	< 1	< 10	4.41	8	143	0.93	0.02	0.67	0.60	0.008	< 10	3	< 10
28011 Orig	0.6	0.7	373	456	< 2	313	9	50	3.07	< 10	13	< 1	< 10	2.22	34	65	6.50	0.07	1.21	0.22	0.107	< 10	12	< 10
28011 Dup	0.6	< 0.5	344	451	< 2	307	8	49	3.01	< 10	14	< 1	< 10	2.19	34	55	6.32	0.07	1.18	0.22	0.106	< 10	12	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	2	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank																								
Method Blank Method Blank																								
Method Blank Method Blank																								
Method Blank Method Blank																								

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Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Be	Be	Bi	Ca	Co	Cr
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	158		78	143	24	16	0.204	1140	29.5	3.4	1150	788	16	36	600	642	0.33	383	203	< 1	1440	0.76	8	7
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257	1110	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.580	8.20	12.0
GXR-4 Meas	70		63	14	12	10	1.822	6010	3.6	0.6	5520	135	344	39	45	70	2.58	100	32	1	26	0.82	16	56
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77	6520	4.00	0.960	6520	165	310	42.0	62.0	73.0	7.20	96.0	1640	1.90	16.0	1.01	14.6	54.0
GXR-2 Meas	90		51	< 10	12	12	0.038	86	21.3	4.6	83	1030	< 2	17	788	548	3.58	13	1420	1	< 10	0.82	10	25
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313	76.0	17.0	4.10	76.0	1010	2.10	21.0	690	530	15.5	25.0	2240	1.70	0.690	0.930	8.60	38.0
KC-1A Meas																								
KC-1A Cert																								
GZN-3 Meas																								
GZN-3 Cert																								
GXR-6 Meas	33		165	< 10	7	18	0.017	68	0.3	0.8	81	1020	< 2	31	55	122	7.10	243	852	< 1	< 10	0.16	15	84
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160	66.0	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	86.0
OCU-1C Meas																								
OCU-1C Cert																								
PTC-1a Meas																								
PTC-1a Cert																								
OREAS 13P Meas								2810																
OREAS 13P Cert								2500																
OREAS 14P Meas								8950																
OREAS 14P Cert								9670																
25567 Orig	50	0.08	78	< 10	3	1	0.101																	
25567 Dup	48	0.08	80	< 10	3	< 1	0.098																	
26441 Orig	7	0.05	19	< 10	19	10	0.028																	
26441 Dup	7	0.05	19	< 10	19	11	0.025																	
27168 Orig	121	0.03	21	< 10	< 1	< 1	0.073																	
27168 Dup	120	0.03	21	< 10	< 1	< 1	0.071																	
28011 Orig	45	0.11	80	< 10	21	4	0.071																	
28011 Dup	45	0.11	90	< 10	21	4	0.070																	
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	0.002																	
Blank																								
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001																	
Blank																								
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001																	
Blank																								
Method Blank Method								< 1																
Blank									< 0.2	< 0.6	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2
Method Blank Method																								
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Date Submitted: 26-May-08

Invoice No.: A08-2663

Invoice Date: 24-Jul-08

Your Reference: DOSSIER #22287

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

50 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2663**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2663 rev 1

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	10	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
27212	22.2	30.0	9050	465	< 2	276	690	558	1.81	< 10	10	< 1	23	1.01	39	120	4.51	0.03	1.34	0.04	0.023	< 10	4	21	
27213	38.3	28.1	7760	821	< 2	706	2060	1470	3.60	< 10	7	< 1	83	1.37	132	79	13.6	0.02	2.21	0.02	0.031	< 10	8	40	
27214	23.1	15.3	> 10000	951	< 2	2450	481	913	3.65	< 10	22	< 1	< 10	1.21	231	83	21.0	0.11	2.23	0.05	0.035	< 10	9	21	
27215	39.3	29.1	> 10000	533	< 2	1990	203	1520	2.65	< 10	22	< 1	< 10	0.97	123	56	17.9	0.13	1.50	0.08	0.035	< 10	4	35	
27216	0.8	1.4	598	326	< 2	137	117	146	3.71	< 10	20	< 1	< 10	3.10	22	100	2.96	0.07	2.05	0.18	0.100	< 10	4	< 10	
27217	0.4	0.9	290	374	< 2	125	93	181	3.75	< 10	19	< 1	< 10	3.02	22	126	2.99	0.07	2.33	0.22	0.008	< 10	5	< 10	
27218	< 0.2	0.6	66	297	< 2	91	47	113	4.65	< 10	20	< 1	< 10	3.28	18	116	2.34	0.07	1.87	0.47	0.100	< 10	5	< 10	
27219	0.5	< 0.5	245	343	< 2	84	30	40	4.40	< 10	16	< 1	< 10	3.19	19	98	2.66	0.09	1.90	0.45	0.020	< 10	5	< 10	
27220	0.6	< 0.5	1540	325	< 2	1660	< 2	24	6.16	< 10	22	< 1	< 10	3.09	55	153	3.45	0.04	3.43	0.34	0.003	< 10	4	< 10	
27221	3.8	1.3	1760	405	< 2	67	23	121	2.60	< 10	41	< 1	< 10	1.45	21	111	4.16	0.20	2.39	0.12	0.041	< 10	8	< 10	
27232	< 0.2	< 0.5	51	882	< 2	11	< 2	82	3.65	< 10	174	< 1	< 10	0.54	10	107	3.99	0.71	2.40	0.08	0.030	< 10	8	< 10	
27233	< 0.2	< 0.5	164	381	5	26	3	112	3.61	< 10	189	< 1	< 10	0.33	44	65	5.93	1.00	2.05	0.06	0.037	< 10	9	< 10	
27234	< 0.2	< 0.5	23	533	< 2	26	< 2	92	3.83	< 10	264	< 1	< 10	0.35	22	95	5.69	0.95	1.78	0.08	0.042	< 10	12	< 10	
27235	< 0.2	< 0.5	69	579	< 2	31	3	104	3.73	< 10	129	< 1	< 10	1.65	21	80	5.04	0.79	2.00	0.08	0.053	< 10	10	< 10	
27236	< 0.2	< 0.5	124	542	< 2	39	< 2	71	2.37	< 10	53	< 1	< 10	3.33	29	63	4.40	0.21	1.64	0.05	0.066	< 10	8	< 10	
27237	< 0.2	< 0.5	114	846	< 2	42	< 2	62	2.91	< 10	76	< 1	< 10	2.39	30	74	6.05	0.28	1.75	0.06	0.065	< 10	11	< 10	
27238	< 0.2	< 0.5	51	637	< 2	31	6	160	3.96	< 10	92	< 1	< 10	1.89	18	65	5.28	0.63	2.30	0.04	0.066	< 10	12	< 10	
26368	1.5	< 0.5	1640	197	< 2	671	< 2	28	5.39	< 10	15	< 1	< 10	3.50	60	176	2.81	0.08	2.14	0.24	0.007	< 10	3	< 10	
26369	0.5	< 0.5	256	71	< 2	95	5	9	8.04	< 10	14	< 1	< 10	5.80	10	117	0.75	0.04	0.49	0.75	0.007	< 10	2	< 10	
26370	0.7	< 0.5	1350	295	< 2	1450	5	24	5.74	< 10	21	< 1	< 10	2.80	54	158	3.34	0.02	3.21	0.33	0.003	< 10	3	< 10	
26478	9.9	19.3	6980	444	< 2	756	216	899	2.68	< 10	42	< 1	< 10	1.13	111	74	8.72	0.22	1.48	0.10	0.017	< 10	4	< 10	
26479	19.3	47.9	9520	333	< 2	5500	329	2020	1.31	< 10	16	< 1	< 10	0.50	324	33	28.2	0.05	0.58	0.05	0.018	< 10	< 1	19	
26480	< 0.2	< 0.5	7	11	< 2	1	< 2	2	0.03	< 10	8	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10	
26481	12.0	5.7	7620	430	< 2	1620	308	549	3.72	< 10	28	< 1	< 10	1.60	107	123	10.7	0.12	1.87	0.24	0.019	< 10	3	< 10	
26482	14.4	9.0	9230	407	< 2	3110	248	784	2.36	< 10	17	< 1	< 10	0.96	350	70	19.6	0.12	1.42	0.09	0.018	< 10	4	11	
26483	22.8	27.0	9060	492	< 2	846	606	1450	3.66	< 10	35	< 1	11	1.76	129	91	9.07	0.26	2.29	0.14	0.021	< 10	7	< 10	
26484	45.8	51.8	> 10000	430	< 2	938	330	2150	2.18	< 10	30	< 1	< 10	1.01	50	148	8.57	0.10	1.77	0.05	0.019	< 10	4	< 10	
26485	16.4	53.2	> 10000	605	< 2	462	92	2450	2.60	< 10	46	< 1	< 10	1.65	40	109	6.46	0.20	2.06	0.05	0.047	< 10	7	< 10	
26486	0.5	1.1	369	363	< 2	19	9	168	2.49	< 10	162	< 1	< 10	0.20	5	49	2.91	0.70	1.90	0.06	0.020	< 10	4	< 10	
26487	1.6	1.7	2340	684	< 2	758	6	442	3.38	< 10	35	< 1	< 10	0.35	50	38	10.2	0.69	2.63	0.02	0.051	< 10	8	< 10	
26488	5.0	< 0.5	1900	300	< 2	464	95	88	3.33	< 10	96	< 1	< 10	0.57	19	106	4.40	0.65	2.16	0.06	0.013	< 10	9	< 10	
26489	1.2	1.0	1250	354	< 2	19	7	132	3.28	< 10	178	< 1	< 10	0.85	13	80	4.36	0.59	2.17	0.10	0.014	< 10	6	< 10	
26490	1.1	1.5	8980	295	< 2	> 10000	< 2	45	0.55	< 10	6	< 1	< 10	0.41	625	36	33.5	0.16	0.18	0.06	0.50	4	< 10		
26491	0.6	1.9	516	228	< 2	9	10	223	2.97	< 10	149	< 1	< 10	0.75	7	69	3.22	0.43	1.66	0.15	0.010	< 10	2	< 10	
26492	< 0.2	0.7	55	180	< 2	8	4	123	1.91	< 10	26	< 1	< 10	0.24	3	108	1.63	0.07	1.05	0.08	0.096	< 10	2	< 10	
26493	8.4	7.2	2550	367	< 2	154	21	335	3.65	< 10	63	< 1	< 10	1.25	20	57	5.25	0.46	2.02	0.16	0.015	< 10	4	< 10	
26494	11.2	5.3	2340	135	< 2	144	60	180	4.15	< 10	56	< 1	< 10	2.88	18	44	3.21	0.18	0.82	0.21	0.028	< 10	2	< 10	
26495	24.6	6.0	2940	244	< 2	239	215	169	3.38	< 10	36	< 1	< 10	1.95	2.05	51	27	5.25	1.01	1.01	0.16	0.042	< 10	2	< 10
26496	8.9	4.1	2340	236	< 2	188	35	135	2.62	< 10	61	< 1	< 10	1.16	32	69	4.93	0.11	1.66	0.20	0.038	< 10	3	< 10	
26497	4.1	1.1	1080	98	< 2	102	25	21	6.28	< 10	16	< 1	< 10	4.81	20	78	1.34	0.02	0.51	0.48	0.008	< 10	2	< 10	
26498	3.0	2.2	4210	108	< 2	1140	32	92	4.74	< 10	11	< 1	< 10	3.51	80	152	6.14	0.03	0.84	0.27	0.013	< 10	3	< 10	
26499	1.0	1.5	1500	137	< 2	921	41	89	5.27	< 10	8	< 1	< 10	3.73	68	128	5.70	0.01	0.86	0.34	0.018	< 10	4	< 10	
26499	1.1	1.3	1470	125	< 2	938	57	157	6.08	< 10	17	< 1	< 10	4.17	83	348	8.41	0.08	1.08	0.33	0.007	< 10	2	< 10	
26499	3.7	2.2	4650	140	< 2	1630	42	357	3.47	< 10	25	< 1	< 10	2.04	152	365	11.2	0.13	1.17	0.25	0.007	< 10	2	< 10	
26499	0.3	1.0	378	851	< 2	400	3	48	4.63	< 10	6	< 1	< 10	3.30	57	368	4.99	0.02	3.80	0.04	0.009	< 10	5	< 10	
26765	0.6	< 0.5	925	105	< 2	104	< 2	14	4.51	< 10	12	< 1	< 10	3.38	17	117	1.26	0.01	0.75	0.53	0.044	< 10	3	< 10	
26766	< 0.2	< 0.5	20	233	< 2	69	< 2	18	3.66	< 10	9	< 1	< 10	2.81	11	77	1.89	0.02	1.66	0.22	0.021	< 10	2	< 10	
26787	1.2	< 0.5	2000	170	< 2	597	< 2	35	6.98	< 10	54	< 1	< 10	4.38	39	118	2.61	0.13	1.87	0.43	0.004	< 10	3	< 10	
26791	< 0.2	< 0.5	142	121	< 2	232	< 2	27	2.34	< 10	6	< 1	< 10	0.35	30	73	2.04	< 0.01	2.88	0.04	0.006	< 10	< 1	< 10	

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Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Hg	Ag	Cu	Zn	Pb	Ni	Ca	Co	Mn	Fe	Li
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%
Detection Limit	1	0.01	1	10	1	1	0.001				0.001			0.003					
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-OES	TD-ICP
27212	15	0.07	75	< 10	1	2	1.349												
27213	22	0.15	139	14	7	4	4.166												
27214	12	0.12	137	< 10	6	7	6.901												
27215	19	0.08	84	12	5	6	7.304												
27216	37	0.09	50	< 10	2	1	0.213												
27217	33	0.08	56	< 10	2	1	0.086												
27218	68	0.08	54	< 10	2	< 1	0.046												
27219	70	0.09	68	< 10	3	1	0.061												
27220	69	0.02	36	< 10	< 1	2	0.468												
27221	18	0.15	69	< 10	14	5	0.386												
27232	17	0.15	58	< 10	15	16	0.015												
27233	12	0.15	63	< 10	8	8	0.332												
27234	12	0.17	85	< 10	6	7	0.064												
27235	18	0.21	97	< 10	9	5	0.221												
27236	13	0.21	115	< 10	10	3	0.587												
27237	17	0.24	119	< 10	14	5	0.608												
27238	15	0.24	104	< 10	11	5	0.127												
26368	61	0.04	26	< 10	1	1	0.590												
26389	117	0.02	15	< 10	< 1	< 1	0.113												
26370	68	0.02	33	< 10	< 1	1	0.490												
26478	15	0.07	54	< 10	6	4	2.980												
26479	10	0.03	52	18	4	8	8.405												
26480	1	< 0.01	< 1	< 10	< 1	3	0.020												
26481	25	0.03	94	< 10	3	3	4.033												
26482	12	0.07	103	14	3	6	6.216												
26483	19	0.09	70	15	4	3	3.185												
26484	10	0.05	41	21	2	3	4.070												
26485	11	0.11	58	23	9	4	2.606												
26486	8	0.10	8	< 10	10	8	0.083												
26487	9	0.15	49	< 10	12	6	3.457												
26448	19	0.10	61	< 10	5	3	0.900												
26449	12	0.08	21	< 10	8	4	0.814												
26450	15	0.08	64	< 10	17	20	9.111	0.895						2.09					
26451	14	0.07	15	< 10	4	4	0.561												
26452	9	0.04	11	< 10	4	3	0.022												
26453	19	0.10	41	< 10	5	3	1.176												
26454	35	0.05	38	< 10	5	2	0.971												
26455	29	0.05	45	< 10	6	2	1.646												
26456	21	0.06	46	< 10	7	3	1.728												
26457	88	0.02	17	< 10	1	< 1	0.421												
26462	72	0.02	20	< 10	1	2	2.726												
26463	61	0.04	39	< 10	2	3	2.325												
26464	69	0.02	47	< 10	< 1	2	2.249												
26465	33	0.03	55	< 10	1	4	4.018												
26441	10	0.03	52	< 10	1	2	0.357												
26765	65	0.04	22	< 10	2	< 1	0.272												
26766	44	0.03	26	< 10	2	1	0.029												
26787	148	0.04	47	< 10	< 1	< 1	0.528												
26791	4	0.01	10	< 10	< 1	< 1	0.018												

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.5	3.4	1040	715	14	19	547	576	0.64	304	330	< 1	1360	0.80	10	6	22.3	0.03	0.15	0.06	0.033	70	1	24
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.5	0.6	6200	141	339	40	44	70	2.83	99	32	1	32	0.94	15	55	3.52	1.39	1.71	0.11	0.123	< 10	7	< 10
GXR-4 Cert	4.00	0.660	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.6	4.9	83	1130	< 2	17	797	586	3.59	15	1000	1	< 10	0.80	11	27	2.22	0.55	0.55	0.14	0.061	36	5	< 10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
KC-1A Meas																								
KC-1A Cert																								
GZN-3 Meas																								
GZN-3 Cert																								
GXR-6 Meas	0.3	0.8	67	1060	< 2	20	96	119	7.38	246	866	< 1	< 10	0.18	16	86	6.05	0.88	0.41	0.06	0.033	< 10	24	< 10
GXR-6 Cert	1.30	1.00	65.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	95.0	5.56	1.87	3.60E	0.104	0.0350	3.60	27.6	1.70
OCU-1C Meas																								
OCU-1C Cert																								
PTC-1a Meas																								
PTC-1a Cert																								
OREAS 13P Meas			2510			2180											5.34							
OREAS 13P Cert			2500			2260											7.58							
OREAS 14P Meas																								
OREAS 14P Cert																								
27235 Orig	< 0.2	< 0.5	66	594	< 2	31	3	133	3.75	< 10	130	< 1	< 10	1.66	21	80	5.06	0.80	2.02	0.06	0.054	< 10	10	< 10
27235 Dup	< 0.2	< 0.5	70	575	< 2	31	2	104	3.71	< 10	129	< 1	< 10	1.65	21	80	5.02	0.79	1.99	0.08	0.052	< 10	10	< 10
26449 Orig	1.2	0.9	1240	355	< 2	21	7	130	3.28	< 10	180	< 1	< 10	0.66	13	80	4.38	0.59	2.13	0.10	0.014	< 10	6	< 10
26449 Dup	1.3	1.0	1250	352	< 2	18	6	134	3.25	< 10	177	< 1	< 10	0.65	13	81	4.34	0.60	2.20	0.10	0.014	< 10	6	< 10
26785 Orig	0.6	< 0.5	933	103	< 2	99	2	15	4.65	< 10	12	< 1	< 10	3.35	15	116	1.26	0.01	0.75	0.52	0.043	< 10	3	< 10
26785 Dup	0.6	< 0.5	918	107	< 2	109	< 2	14	4.63	< 10	12	< 1	< 10	3.42	18	118	1.29	0.01	0.77	0.54	0.045	< 10	3	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	30	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank																								
Method Blank Method Blank																								
Method Blank Method Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S	Cu	Cu	Ni
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%
Detection Limit	1	0.01	1	10	1	1	0.001	1	0.001	0.003
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES
GXR-1 Meas	149		87	121	21	17	0.184	1140		
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257	1110		
GXR-4 Meas	59		84	16	12	10	1.866	6010		
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77	6520		
GXR-2 Meas	84		51	< 10	11	12	0.038	86		
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313	76.0		
KC-1A Meas									0.641	
KC-1A Cert									0.628	
GZN-3 Meas									0.684	
GZN-3 Cert									0.685	
GXR-6 Meas	30		172	< 10	7	15	0.018	68		
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160	66.0		
OCU-1C Meas								26.6		
OCU-1C Cert								25.5		
PTC-1a Meas								13.5	10.3	
PTC-1a Cert								13.5	10.1	
OREAS 13P Meas								2810	0.250	0.227
OREAS 13P Cert								2500	0.250	0.226
OREAS 14P Meas								8950	0.902	2.08
OREAS 14P Cert								8970	0.907	2.10
27235 Orig	18	0.22	86	< 10	9	5	0.225			
27235 Dup	18	0.21	86	< 10	9	5	0.217			
28445 Orig	12	0.05	21	< 10	8	4	0.821			
28445 Dup	12	0.08	21	< 10	8	4	0.808			
26785 Orig	55	0.04	22	< 10	2	< 1	0.266			
26785 Dup	66	0.04	22	< 10	2	< 1	0.278			
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001			
Blank										
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001			
Blank										
Method Blank Method								< 1		
Blank										
Method Blank Method								< 0.001	< 0.003	
Blank										



Date Submitted: 26-May-08
Invoice No.: A08-2662
Invoice Date: 24-Jul-08
Your Reference: DOSSIER #22288

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

82 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2662**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2662 rev 1

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27152	< 0.2	< 0.5	51	99	< 2	100	< 2	12	4.53	< 10	22	< 1	< 10	2.57	14	101	1.26	0.04	1.35	0.55	0.10	< 10	2	< 10
27163	< 0.2	< 0.5	26	103	< 2	42	< 2	6	5.24	< 10	59	< 1	< 10	3.46	9	91	1.02	0.12	0.74	0.73	0.013	< 10	3	< 10
27154	< 0.2	< 0.5	34	184	< 2	184	< 2	22	4.71	< 10	12	< 1	< 10	2.67	24	122	2.07	0.04	2.53	0.17	0.007	< 10	2	< 10
27155	< 0.2	< 0.5	110	134	< 2	342	< 2	25	2.40	< 10	6	< 1	< 10	0.36	43	134	2.69	< 0.01	3.35	0.03	0.028	< 10	< 1	< 10
27156	< 0.2	< 0.5	322	107	< 2	621	< 2	23	2.27	< 10	5	< 1	< 10	0.11	66	188	3.56	< 0.01	3.62	0.01	0.011	< 10	< 1	< 10
27157	< 0.2	< 0.5	307	137	< 2	644	< 2	29	2.71	< 10	5	< 1	< 10	0.08	74	163	4.25	< 0.01	4.15	0.01	0.010	< 10	< 1	< 10
27158	< 0.2	< 0.5	130	183	< 2	639	3	36	3.46	< 10	4	< 1	< 10	0.06	62	206	5.11	< 0.01	5.02	0.01	0.007	< 10	< 1	< 10
27159	< 0.2	< 0.5	76	180	< 2	394	< 2	34	3.12	< 10	5	< 1	< 10	0.23	49	106	3.17	< 0.01	4.22	0.03	0.010	< 10	< 1	< 10
27160	< 0.2	< 0.5	4	10	< 2	2	< 2	2	0.05	< 10	8	< 1	< 10	0.04	< 1	2	0.06	0.01	0.03	0.01	0.004	< 10	< 1	< 10
27161	< 0.2	< 0.5	169	201	< 2	267	< 2	34	3.12	< 10	6	< 1	< 10	0.93	38	133	2.75	< 0.01	3.63	0.09	0.012	< 10	2	< 10
25401	1.7	0.9	947	129	< 2	303	50	28	5.32	< 10	11	< 1	< 10	3.81	39	121	1.89	0.01	0.81	0.54	0.007	< 10	3	< 10
25402	6.6	2.1	3260	158	< 2	1030	50	49	5.23	< 10	12	< 1	< 10	3.87	52	163	4.39	0.01	0.83	0.49	0.007	< 10	5	< 10
25403	10.7	4.5	5740	119	< 2	2890	52	81	4.38	< 10	23	< 1	< 10	3.00	151	183	9.26	0.03	0.69	0.88	0.005	< 10	3	< 10
25404	8.8	2.8	4370	146	< 2	2860	58	60	4.58	< 10	23	< 1	< 10	3.10	158	176	5.19	0.04	0.84	0.39	0.006	< 10	4	< 10
25405	6.9	3.6	3330	76	< 2	1890	63	63	4.58	< 10	14	< 1	< 10	3.25	102	155	5.82	0.02	0.89	0.40	0.008	< 10	2	< 10
25406	9.1	5.5	4110	180	< 2	981	81	133	5.33	< 10	10	< 1	< 10	3.48	54	244	6.09	0.02	0.99	0.48	0.008	< 10	3	< 10
25407	14.0	6.1	6340	149	< 2	2490	86	105	4.69	< 10	8	< 1	< 10	3.07	135	178	9.06	0.01	0.59	0.32	0.007	< 10	3	< 10
25408	12.5	4.4	5460	184	< 2	2590	82	87	3.76	< 10	9	< 1	< 10	2.54	159	191	9.69	0.01	1.02	0.23	0.006	< 10	4	< 10
25409	13.4	5.8	5490	147	< 2	1070	112	99	5.04	< 10	10	< 1	< 10	3.81	97	189	5.31	0.01	0.77	0.39	0.007	< 10	3	< 10
25410	< 0.2	< 0.5	19	11	< 2	4	< 2	2	0.05	< 10	8	< 1	< 10	0.05	1	4	0.07	0.01	0.02	0.01	0.004	< 10	< 1	< 10
28468	11.4	4.0	> 10000	608	< 2	2820	36	469	2.42	< 10	24	< 1	< 10	2.12	182	37	18.2	0.11	1.95	0.05	0.014	< 10	8	< 10
28469	3.7	3.0	2700	931	< 2	241	44	423	4.21	11	7	< 1	< 10	5.01	36	85	8.46	0.02	3.00	0.09	0.020	< 10	18	< 10
28470	0.7	< 0.5	1500	308	< 2	1660	< 2	24	5.78	< 10	18	< 1	< 10	2.88	55	144	3.32	0.03	3.28	0.31	0.003	< 10	3	< 10
28471	0.3	0.9	292	756	< 2	107	20	151	3.94	< 10	9	< 1	< 10	4.37	30	124	7.03	0.03	2.72	0.19	0.032	< 10	18	< 10
28472	24.7	10.5	> 10000	481	< 2	534	34	871	2.62	< 10	17	< 1	< 10	1.40	59	60	11.9	0.07	1.91	0.09	0.037	< 10	6	< 10
28473	2.1	1.3	2000	222	< 2	63	12	110	1.87	< 10	19	< 1	< 10	0.71	26	62	4.66	0.06	1.43	0.08	0.089	< 10	4	< 10
28474	1.8	1.3	1090	83	< 2	55	8	72	1.82	< 10	80	< 1	< 10	0.90	21	53	3.28	0.23	0.87	0.18	0.117	< 10	4	< 10
28475	0.8	0.8	631	139	< 2	48	7	78	1.75	< 10	50	< 1	< 10	1.08	25	71	3.46	0.16	1.00	0.17	0.155	< 10	4	< 10
28485	17.9	13.5	> 10000	346	< 2	1060	41	1150	2.18	< 10	32	< 1	< 10	1.19	102	93	9.77	0.18	1.58	0.12	0.018	< 10	4	< 10
28487	4.0	3.0	4490	340	< 2	1330	48	307	2.69	< 10	31	< 1	< 10	1.96	100	85	11.2	0.11	1.22	0.11	0.040	< 10	7	< 10
28489	1.3	0.5	586	141	< 2	166	21	25	5.86	< 10	15	< 1	< 10	4.36	19	126	1.36	0.01	0.70	0.49	0.10	< 10	3	< 10
28482	0.8	< 0.5	313	118	< 2	143	18	13	5.31	< 10	23	< 1	< 10	4.02	14	131	1.27	0.03	0.72	0.54	0.007	< 10	3	< 10
28483	2.0	1.1	1120	135	< 2	662	20	21	5.25	< 10	16	< 1	< 10	3.91	45	110	3.22	0.01	0.77	0.47	0.013	< 10	3	< 10
28484	1.2	< 0.5	506	114	< 2	173	24	14	5.08	< 10	12	< 1	< 10	3.78	29	96	1.38	0.03	0.70	0.53	0.011	< 10	3	< 10
28485	0.7	< 0.5	245	86	< 2	106	22	10	4.40	< 10	31	< 1	< 10	3.05	12	70	0.95	0.06	0.58	0.49	0.014	< 10	2	< 10
28486	3.6	1.5	1210	121	< 2	385	30	22	4.69	< 10	21	< 1	< 10	3.54	37	103	2.23	0.02	0.58	0.54	0.009	< 10	3	< 10
28487	6.0	2.7	2250	95	< 2	852	35	33	4.68	< 10	28	< 1	< 10	3.18	73	98	3.44	0.07	0.75	0.55	0.009	< 10	2	< 10
28488	0.8	< 0.5	166	70	< 2	51	37	9	5.11	< 10	17	< 1	< 10	3.69	7	54	0.62	0.03	0.44	0.50	0.008	< 10	2	< 10
28489	1.7	0.9	587	94	< 2	266	43	16	6.07	< 10	25	< 1	< 10	4.01	25	77	1.69	0.05	0.69	0.70	0.017	< 10	3	< 10
28490	< 0.2	< 0.5	6	8	< 2	< 1	< 2	1	0.07	< 10	8	< 1	< 10	0.05	< 1	2	0.05	0.01	0.02	0.02	0.004	< 10	< 1	< 10
28491	2.9	0.5	879	190	< 2	268	37	16	5.87	< 10	13	< 1	< 10	4.00	30	110	1.93	< 0.01	0.82	0.22	0.013	< 10	3	< 10
28492	3.0	0.8	890	261	< 2	419	43	21	7.27	< 10	16	< 1	< 10	5.05	35	107	2.74	0.01	1.06	0.37	0.015	< 10	6	< 10
28493	1.5	0.9	581	216	< 2	258	47	23	6.70	< 10	13	< 1	< 10	4.58	29	113	2.16	0.01	0.95	0.58	0.010	< 10	5	< 10
28494	3.8	1.9	1250	202	< 2	667	50	36	6.32	< 10	31	< 1	< 10	4.52	65	187	3.92	0.11	1.26	0.57	0.011	< 10	6	< 10
28495	2.5	0.8	958	156	< 2	748	56	25	5.88	< 10	25	< 1	< 10	4.14	55	172	3.95	0.05	0.85	0.85	0.011	< 10	4	< 10
28496	5.5	1.5	1930	174	< 2	920	51	32	5.55	< 10	14	< 1	< 10	4.07	79	170	4.62	0.02	0.82	0.60	0.010	< 10	5	< 10
28497	4.4	1.6	2140	155	< 2	1220	49	31	5.20	< 10	25	< 1	< 10	3.70	72	146	6.38	0.04	0.84	0.66	0.012	< 10	4	< 10
28498	1.8	0.7	379	119	< 2	184	63	20	8.13	< 10	16	< 1	< 10	4.30	20	128	1.46	0.02	0.84	0.56	0.011	< 10	3	< 10
28499	3.3	0.7	509	91	< 2	81	65	17	5.80	< 10	14	< 1	< 10	4.12	10	85	0.89	0.01	0.51	0.57	0.009	< 10	3	< 10
28499	0.6	< 0.5	1440	315	< 2	1460	6	25	6.46	< 10	26	< 1	< 10	3.01	55	173	3.58	0.03	3.46	0.38	0.003	< 10	3	< 10
25488	< 0.2	< 0.5	11	599	< 2	6	6	98	4.37	< 10	184	< 1	< 10	0.69	11	62	5.26	1.00	2.84	0.04	0.073	< 10	9	< 10
25489	< 0.2	< 0.5	10	526	< 2	9	4	46	2.76	< 10	37	< 1	< 10	1.43	9	132	3.19	0.23	1.85	0.03	0.131	< 10	6	< 10

Activation Laboratories Ltd. Report: A08-2662 rev 1

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
25490	0.6	< 0.5	1630	344	< 2	1750	< 2	26	6.44	< 10	22	< 1	< 10	3.20	58	160	3.66	0.04	3.61	0.35	0.003	< 10	4	< 10
25491	< 0.2	< 0.5	11	529	< 2	9	4	72	4.00	< 10	155	< 1	< 10	0.73	13	134	4.56	0.98	2.21	0.05	0.092	< 10	8	< 10
25492	< 0.2	< 0.5	25	439	< 2	8	3	92	3.95	< 10	147	< 1	< 10	0.71	15	72	4.86	1.15	2.20	0.06	0.035	< 10	8	< 10
25493	< 0.2	< 0.5	15	550	< 2	3	4	87	3.88	< 10	143	< 1	< 10	0.92	14	70	4.71	1.09	2.25	0.06	0.094	< 10	8	< 10
25494	< 0.2	< 0.5	3	518	< 2	7	4	107	4.63	< 10	239	< 1	< 10	0.93	14	89	4.57	1.30	2.36	0.08	0.084	< 10	11	< 10
25495	< 0.2	< 0.5	3	578	< 2	6	3	98	4.48	< 10	226	< 1	< 10	1.08	15	105	5.26	1.35	2.52	0.06	0.086	< 10	12	< 10
25496	< 0.2	< 0.5	20	615	< 2	7	7	76	4.08	< 10	177	< 1	< 10	1.37	12	120	4.75	1.03	2.34	0.05	0.081	< 10	12	< 10
25497	< 0.2	< 0.5	2	895	< 2	6	6	99	4.47	< 10	207	< 1	< 10	1.35	12	106	5.43	1.57	2.62	0.06	0.079	< 10	12	< 10
25691	1.2	1.8	662	240	< 2	344	63	27	5.21	< 10	15	< 1	< 10	4.03	29	133	2.69	0.54	1.01	0.27	0.013	< 10	4	< 10
25692	3.2	2.8	1480	378	< 2	862	79	36	4.85	< 10	17	< 1	< 10	3.88	86	161	5.77	0.03	1.15	0.32	0.014	< 10	6	< 10
25693	8.5	5.2	2010	378	< 2	1050	93	80	3.99	< 10	12	< 1	< 10	3.14	59	366	3.75	0.05	2.12	0.24	0.007	< 10	5	< 10
25694	8.1	5.1	2340	444	< 2	1990	68	87	3.58	< 10	16	< 1	< 10	2.02	120	491	6.06	0.08	3.71	0.15	0.010	< 10	3	< 10
25895	24.1	5.9	4990	591	< 2	2470	187	88	4.15	< 10	13	< 1	< 10	2.16	194	477	7.15	0.06	3.59	0.13	0.013	< 10	3	< 10
25896	9.5	2.9	2220	844	< 2	1040	183	60	5.71	< 10	10	< 1	< 10	4.80	74	599	5.42	0.03	3.09	0.19	0.020	< 10	5	< 10
25897	7.1	5.0	1820	576	< 2	1180	176	83	5.34	< 10	10	< 1	< 10	3.89	75	319	5.03	0.03	2.96	0.18	0.018	< 10	4	< 10
25898	16.8	12.5	4950	480	< 2	1680	53	139	3.67	< 10	9	< 1	< 10	2.06	58	326	6.86	0.03	3.93	0.10	0.012	< 10	3	< 10
25899	4.0	8.5	1330	794	< 2	1540	139	175	4.98	59	7	< 1	< 10	4.32	105	463	7.61	0.01	5.84	0.03	0.006	< 10	8	< 10
25900	1.0	1.7	8310	338	< 2	> 10000	3	44	0.65	11	4	< 1	< 10	0.42	605	34	32.5	0.12	0.18	0.06	0.048	< 10	4	< 10
25931	< 0.2	< 0.5	170	831	2	82	7	79	3.74	< 10	248	< 1	< 10	0.40	13	112	5.35	1.17	1.77	0.10	0.027	< 10	8	< 10
25932	< 0.2	< 0.5	240	436	< 2	8	< 2	189	2.50	< 10	113	< 1	< 10	0.17	5	161	4.62	0.66	1.42	0.04	0.012	< 10	2	< 10
25933	< 0.2	0.5	586	525	2	9	3	291	2.56	< 10	84	< 1	< 10	0.12	8	182	4.56	0.62	1.53	0.04	0.006	< 10	2	< 10
25934	0.4	6.2	790	835	3	17	4	1280	2.28	< 10	53	< 1	< 10	0.32	26	106	6.35	0.56	1.45	0.04	0.014	< 10	2	< 10
25935	< 0.2	< 0.5	54	716	< 2	29	6	116	2.04	< 10	363	< 1	< 10	0.50	10	85	2.92	0.74	1.48	0.05	0.030	< 10	7	< 10
25936	< 0.2	< 0.5	30	584	< 2	12	3	48	1.84	< 10	83	2	< 10	1.11	5	120	2.47	0.22	1.15	0.08	0.019	< 10	5	< 10
25937	< 0.2	< 0.5	6	699	< 2	7	< 2	38	1.28	< 10	96	4	< 10	0.13	5	128	1.67	0.39	0.72	0.06	0.021	< 10	3	< 10
25938	< 0.2	< 0.5	6	62	< 2	7	< 2	5	0.10	< 10	12	< 1	30	0.02	< 1	136	0.21	0.03	0.03	0.02	< 0.001	< 10	< 1	< 10
25939	< 0.2	< 0.5	5	49	< 2	11	< 2	4	0.03	< 10	10	< 1	38	0.01	< 1	247	0.24	< 0.01	0.02	0.02	< 0.001	< 10	< 1	< 10
25940	0.6	< 0.5	1410	328	< 2	1530	2	26	6.28	< 10	25	< 1	< 10	3.10	59	181	3.75	0.03	3.62	0.06	0.003	< 10	3	< 10
25941	< 0.2	< 0.5	7	53	< 2	12	< 2	1	0.04	< 10	8	< 1	21	0.02	< 1	207	0.21	< 0.01	0.01	0.01	< 0.001	< 10	< 1	< 10
25942	< 0.2	< 0.5	3	27	< 2	7	< 2	< 1	< 0.01	< 10	9	< 1	< 10	< 0.01	< 1	165	0.15	< 0.01	< 0.01	0.02	< 0.001	< 10	< 1	< 10

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Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27152	74	0.03	20	< 10	< 1	< 1	0.040																	
27163	95	0.04	25	< 10	1	< 1	0.048																	
27184	128	0.03	19	< 10	< 1	< 1	0.021																	
27185	3	0.02	18	< 10	< 1	< 1	0.079																	
27186	< 1	0.02	28	< 10	< 1	1	0.541																	
27187	< 1	0.02	31	< 10	< 1	1	0.705																	
27188	< 1	0.01	30	< 10	< 1	1	0.905																	
27189	< 1	0.02	15	< 10	< 1	< 1	0.122																	
27180	1	< 0.01	< 1	< 10	< 1	4	0.019																	
27181	20	0.03	21	< 10	< 1	1	0.039																	
28401	85	0.02	22	< 10	< 1	1	0.804																	
28402	85	0.02	32	< 10	< 1	2	1.960																	
28403	70	0.02	38	< 10	< 1	3	4.478																	
28404	89	0.03	48	< 10	< 1	3	4.324																	
28405	72	0.02	28	< 10	< 1	2	2.831																	
28406	78	0.03	46	< 10	< 1	2	1.828																	
28407	74	0.02	54	< 10	< 1	3	4.101																	
28408	59	0.03	67	< 10	< 1	3	4.754																	
28409	88	0.03	44	< 10	< 1	2	2.244																	
28410	2	< 0.01	< 1	< 10	< 1	4	0.024	< 0.2	< 0.5	4	8	< 2	< 1	< 2	1	0.03	< 10	8	< 1	< 10	0.03	< 1	< 2	
28468	12	0.02	88	< 10	2	5	4.470																	
28469	31	0.02	150	< 10	3	3	0.837																	
28470	65	0.02	33	< 10	< 1	1	0.481																	
28471	42	0.04	189	< 10	4	2	0.206																	
28472	15	0.04	145	< 10	4	4	4.220																	
28473	13	0.10	123	< 10	8	3	0.441																	
28474	18	0.09	155	< 10	9	2	0.398																	
28475	22	0.10	134	< 10	13	2	0.433																	
28485	9	0.05	89	< 10	2	3	3.997																	
28487	21	0.07	160	< 10	5	4	3.426																	
28661	103	0.02	21	< 10	< 1	1	0.338																	
28882	95	0.02	20	< 10	< 1	1	0.283																	
28883	89	0.03	23	< 10	< 1	1	1.344																	
28884	84	0.03	21	< 10	< 1	< 1	0.383																	
28885	73	0.03	16	< 10	< 1	< 1	0.190																	
28886	81	0.02	21	< 10	< 1	1	0.896																	
28887	87	0.02	15	< 10	< 1	2	1.860																	
28888	76	0.01	10	< 10	< 1	< 1	0.107																	
28889	84	0.03	19	< 10	2	1	0.523																	
28890	2	< 0.01	< 1	< 10	1	4	0.020																	
28891	88	0.05	30	< 10	< 1	1	0.568																	
28892	112	0.05	39	< 10	2	1	0.759																	
28893	109	0.03	29	< 10	1	1	0.464																	
28904	98	0.05	44	< 10	2	2	1.223																	
28885	92	0.04	34	< 10	1	2	1.442																	
28885	80	0.03	34	< 10	1	2	1.873																	
28867	76	0.03	35	< 10	1	2	2.178																	
28888	92	0.03	22	< 10	< 1	< 1	0.350																	
28889	88	0.02	16	< 10	< 1	< 1	0.168																	
28870	73	0.02	36	< 10	< 1	1	0.478																	
28488	14	0.21	64	< 10	19	7	0.025																	
28486	18	0.18	38	< 10	14	6	0.018																	

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Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	1	0.01	1	10	1	1	0.001		0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25490	70	0.02	37	< 10	< 1	1	0.500																	
25451	20	0.20	59	< 10	16	7	0.012																	
25492	18	0.22	65	< 10	10	6	0.013																	
25493	16	0.23	70	< 10	13	7	0.012																	
25494	17	0.23	77	< 10	9	6	0.014																	
25455	13	0.27	83	< 10	13	7	0.011																	
25496	12	0.24	74	< 10	15	6	0.040																	
25497	11	0.30	76	< 10	10	6	0.012																	
25691	70	0.05	29	< 10	2	1	0.967																	
25692	80	0.06	41	< 10	2	2	1.799																	
25893	62	0.03	32	< 10	1	2	0.955																	
25694	20	0.04	32	< 10	1	2	1.647																	
25895	35	0.07	40	< 10	2	3	2.544																	
25896	79	0.07	55	< 10	2	2	1.035																	
25697	70	0.05	40	< 10	2	2	1.090																	
25898	16	0.04	31	< 10	1	2	1.456																	
25699	12	0.02	52	< 10	2	2	0.999																	
25600	16	0.12	62	< 10	18	20	9.968																	
25931	12	0.13	38	< 10	8	13	0.117																	
25632	6	0.05	4	< 10	9	17	0.247																	
25633	6	0.03	4	< 10	15	23	0.524																	
25934	4	0.05	5	< 10	21	18	1.649																	
25935	5	0.16	49	< 10	12	13	0.124																	
25936	13	0.11	12	< 10	26	21	0.021																	
25937	7	0.05	29	< 10	4	7	0.007																	
25638	1	< 0.01	< 1	< 10	< 1	< 1	0.009																	
25939	< 1	< 0.01	< 1	< 10	< 1	< 1	0.005																	
25940	75	0.02	37	< 10	< 1	1	0.506																	
25941	< 1	< 0.01	< 1	< 10	< 1	< 1	0.004																	
25942	< 1	< 0.01	< 1	< 10	< 1	< 1	0.002																	

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Analyte Symbol	Fe	K	Mg	Na	P	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zr	S	Cu	Ni
Unit Symbol	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%
Detection Limit	0.01	0.01	0.01	0.01	0.001	10	1	10	1	0.01	1	10	1	1	0.001	0.001	0.003
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES

27152																	
27163																	
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25401																	
25402																	
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25407																	
25408																	
25409																	
25410	0.34	0.01	0.02	0.01	0.003	< 10	< 1	< 10	1	< 0.01	< 1	< 10	< 1	3	0.016		
25466																	
25469																	
25470																	
25471																	
25472																	
25473																	
25474																	
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Analyte Symbol	Fe	K	Mg	Na	P	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zr	S	Cu	Ni
Unit Symbol	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%
Detection Limit	0.01	0.01	0.01	0.01	0.001	10	1	10	1	0.01	1	10	1	1	0.001	0.001	0.003
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.1	3.5	1060	738	15	23	597	631	0.35	341	302	<1	1450	0.77	7	6	24.3	0.02	0.14	0.04	0.039	79	1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.5	0.6	6590	143	343	40	44	72	3.04	100	23	1	14	0.98	15	59	3.54	1.46	1.77	0.13	0.127	<10	7	<10
GXR-4 Cert	4.00	0.600	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	16.0	1.01	14.5	54.0	3.09	4.61	1.66	0.064	0.120	4.80	7.70	5.60
GXR-2 Meas	20.8	5.1	88	1180	<2	19	828	606	4.04	13	1260	1	<10	0.89	11	30	2.40	0.63	0.61	0.17	0.063	33	6	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
KC-1A Meas																								
KC-1A Cert																								
GZN-3 Meas																								
GZN-3 Cert																								
GXR-6 Meas	0.3	0.5	72	1130	<2	20	102	125	8.25	225	1040	1	<10	0.20	17	91	6.70	1.04	0.48	0.08	0.035	<10	27	<10
GXR-6 Cert	1.30	1.00	65.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	95.0	5.56	1.87	3.606	0.104	0.0350	3.60	27.6	1.70
OCU-1C Meas																								
OCU-1C Cert																								
PTC-1a Meas																								
PTC-1a Cert																								
OREAS 13P Meas			2510			2230											5.89							
OREAS 13P Cert			2500			2260											7.58							
OREAS 14P Meas																								
OREAS 14P Cert																								
27157 Org	< 0.2	< 0.5	311	140	< 2	655	< 2	30	2.78	< 10	6	< 1	< 10	0.08	75	167	4.32	< 0.01	4.22	0.01	0.010	< 10	< 1	< 10
27157 Dup	< 0.2	< 0.5	303	134	< 2	635	< 2	28	2.64	< 10	5	< 1	< 10	0.08	73	158	4.18	< 0.01	4.07	0.01	0.010	< 10	< 1	< 10
29405 Org	13.3	5.8	5450	145	< 2	1060	108	97	5.04	< 10	10	< 1	< 10	3.56	56	186	5.27	0.01	0.77	0.39	0.007	< 10	3	< 10
29405 Dup	13.6	5.9	5530	149	< 2	1090	115	101	5.04	< 10	11	< 1	< 10	3.65	59	193	5.36	0.01	0.78	0.39	0.007	< 10	3	< 10
29853 Org	2.1	1.1	1140	136	< 2	693	21	21	5.35	< 10	16	< 1	< 10	3.93	47	111	3.26	0.01	0.78	0.48	0.014	< 10	3	< 10
29853 Dup	1.9	1.0	1110	135	< 2	671	20	21	5.14	< 10	16	< 1	< 10	3.89	45	109	3.18	0.01	0.76	0.46	0.012	< 10	3	< 10
29488 Org	< 0.2	< 0.5	9	593	3	6	8	98	4.32	< 10	181	< 1	< 10	0.69	10	61	6.17	0.98	2.80	0.04	0.072	< 10	9	< 10
29488 Dup	< 0.2	< 0.5	13	604	< 2	7	5	99	4.43	< 10	187	< 1	< 10	0.70	11	62	5.35	1.02	2.88	0.04	0.073	< 10	10	< 10
29595 Org	24.0	6.0	4970	552	< 2	2450	186	87	4.14	< 10	13	< 1	< 10	2.15	195	477	7.16	0.06	3.58	0.13	0.013	< 10	3	< 10
29595 Dup	24.2	5.9	5000	550	< 2	2480	187	89	4.17	< 10	12	< 1	< 10	2.17	194	477	7.14	0.06	3.60	0.13	0.013	< 10	3	< 10
29538 Org	< 0.2	< 0.5	5	60	< 2	8	< 2	5	0.10	< 10	11	< 1	33	0.02	< 1	138	0.22	0.03	0.03	0.02	< 0.001	< 10	< 1	< 10
29538 Dup	< 0.2	< 0.5	4	63	< 2	6	< 2	4	0.10	< 10	13	< 1	27	0.02	< 1	141	0.21	0.03	0.02	0.02	< 0.001	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10

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Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Be	Be	Bi	Ca	Co	Cr
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
Detection Limit	1	0.01	1	10	1	1	0.001	1	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GXR-1 Meas	178		74	140	23	16	0.206	1140	29.5	3.4	1150	789	16	36	600	642	0.33	393	203	< 1	1440	0.76	8	7
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257	1110	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.580	8.20	12.0
GXR-4 Meas	75		67	12	12	10	1.913	6010	3.6	0.6	5520	136	344	39	45	70	2.58	100	32	1	26	0.82	16	56
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77	6520	4.00	0.960	6520	165	310	42.0	62.0	73.0	7.20	96.0	1640	1.90	16.0	1.01	14.6	64.0
GXR-2 Meas	100		54	< 10	13	13	0.041	86	21.3	4.6	83	1030	< 2	17	788	549	3.58	13	1420	1	< 10	0.82	10	25
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313	76.0	17.0	4.10	76.0	1010	2.10	21.0	690	530	15.5	25.0	2240	1.70	0.890	0.930	8.60	36.0
KC-1A Meas																								
KC-1A Cert																								
GZN-3 Meas																								
GZN-3 Cert																								
GXR-6 Meas	37		182	< 10	9	8	0.017	68	0.3	0.8	81	1020	< 2	31	55	122	7.10	243	852	< 1	< 10	0.16	15	84
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160	66.0	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	86.0
OCU-1C Meas																								
OCU-1C Cert																								
PTC-1a Meas																								
PTC-1a Cert																								
OREAS 13P Meas								2610																
OREAS 13P Cert								2500																
OREAS 14P Meas								8950																
OREAS 14P Cert								8670																
27157 Org	< 1	0.02	32	< 10	< 1	1	0.713																	
27157 Dup	< 1	0.02	31	< 10	< 1	1	0.696																	
26405 Org	87	0.03	44	< 10	< 1	2	2.224																	
26405 Dup	89	0.03	45	< 10	< 1	2	2.263																	
26853 Org	90	0.02	24	< 10	< 1	1	1.340																	
26853 Dup	88	0.03	23	< 10	< 1	1	1.349																	
26488 Org	14	0.21	65	< 10	19	7	0.024																	
26488 Dup	14	0.21	65	< 10	19	7	0.026																	
25685 Org	34	0.07	40	< 10	2	3	2.538																	
25685 Dup	35	0.07	40	< 10	2	3	2.549																	
26538 Org	1	< 0.01	< 1	< 10	< 1	< 1	0.008																	
26538 Dup	1	< 0.01	< 1	< 10	< 1	1	0.009																	
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001																	
Blank																								
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001																	
Blank																								
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001																	
Blank																								
Method Blank Method																								
Blank																								
Method Blank Method									< 0.2	< 0.6	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2
Blank																								
Method Blank Method																								
Blank																								

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Quality Control

Analyte Symbol	Fe	K	Mg	Na	P	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zr	S	Cu	Ni
Unit Symbol	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%
Detection Limit	0.01	0.01	0.01	0.01	0.001	10	1	10	1	0.01	1	10	1	1	0.001	0.001	0.003
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES
GXR-1 Meas	26.4	0.02	0.13	0.05	0.038	79	1	28	163		78	131	24	13	0.204		
GXR-1 Cert	23.8	0.0500	0.217	0.0520	0.0650	122	1.58	54.0	275		80.0	164	32.0	36.0	0.257		
GXR-4 Meas	3.49	1.36	1.69	0.11	0.123	< 10	7	< 10	75		87	12	12	10	1.623		
GXR-4 Cert	3.09	4.01	1.66	0.564	0.120	4.80	7.70	6.60	221		67.0	30.8	14.0	186	1.77		
GXR-2 Meas	2.31	0.57	0.56	0.26	0.058	29	5	< 10	102		51	< 10	11	13	0.037		
GXR-2 Cert	1.88	1.37	0.890	0.556	0.105	49.0	8.88	1.70	180		52.0	1.90	17.0	289	0.0313		
KC-1A Meas																	0.641
KC-1A Cert																	0.629
GZN-3 Meas																	0.684
GZN-3 Cert																	0.685
GXR-6 Meas	6.89	0.89	0.42	0.12	0.033	< 10	22	< 10	34		183	< 10	6	14	0.020		
GXR-6 Cert	5.58	1.87	0.609	0.104	0.0550	3.60	27.6	1.70	35.0		186	1.80	14.0	110	0.0160		
OCU-1C Meas																	25.6
OCU-1C Cert																	25.6
PTC-1a Meas																	13.5
PTC-1a Cert																	13.5
OREAS 13P Meas																	0.227
OREAS 13P Cert																	0.250
OREAS 14P Meas																	0.902
OREAS 14P Cert																	0.997
27157 Orig																	
27157 Dup																	
28405 Orig																	
28405 Dup																	
28853 Orig																	
28853 Dup																	
28488 Orig																	
28488 Dup																	
25685 Orig																	
25685 Dup																	
25638 Orig																	
25638 Dup																	
Method Blank Method																	
Blank																	
Method Blank Method																	
Blank																	
Method Blank Method																	
Blank																	
Method Blank Method	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001		
Blank																	
Method Blank Method																	
Blank																	



Date Submitted: 26-May-08

Invoice No.: A08-2660

Invoice Date: 08-Jul-08

Your Reference: DOSSIER #22289

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

80 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2660**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26001	< 0.2	< 0.5	13	840	< 2	4	9	105	4.25	< 10	193	< 1	< 10	1.83	13	63	5.05	1.23	2.16	0.07	0.084	< 10	11	< 10
26002	< 0.2	< 0.5	46	959	< 2	5	6	120	4.02	< 10	205	< 1	< 10	1.79	14	96	5.35	1.21	2.47	0.06	0.076	< 10	10	< 10
26003	< 0.2	< 0.5	4	558	< 2	4	5	83	2.51	< 10	78	< 1	< 10	1.45	3	115	2.33	0.44	1.77	0.03	0.008	< 10	3	< 10
26004	< 0.2	< 0.5	4	500	< 2	5	4	71	2.26	< 10	63	< 1	< 10	0.63	3	144	2.46	0.42	1.55	0.03	0.008	< 10	2	< 10
26005	< 0.2	< 0.5	9	499	2	6	< 2	83	2.86	< 10	67	< 1	< 10	0.17	5	122	3.43	0.46	1.95	0.03	0.011	< 10	2	< 10
26006	< 0.2	< 0.5	24	510	< 2	5	< 2	87	2.61	< 10	52	< 1	< 10	0.40	5	164	3.39	0.32	1.80	0.06	0.022	< 10	3	< 10
26007	< 0.2	< 0.5	464	416	< 2	15	2	89	2.20	< 10	51	< 1	< 10	0.26	18	187	4.10	0.32	1.61	0.03	0.013	< 10	2	< 10
26008	1.1	0.5	1710	493	< 2	88	6	120	2.63	< 10	22	< 1	< 10	0.65	101	131	10.5	0.59	1.78	0.04	0.025	< 10	5	< 10
26009	2.6	41.8	156	953	< 2	11	3	3210	2.82	< 10	100	< 1	< 10	2.10	24	82	8.20	0.14	1.45	0.10	0.120	< 10	17	< 10
26010	< 0.2	< 0.5	4	13	< 2	< 1	4	10	0.06	< 10	13	< 1	< 10	0.05	< 1	3	0.08	0.01	0.02	0.02	0.005	< 10	< 1	< 10
27192	4.8	5.8	2870	521	< 2	1020	166	223	4.22	< 10	32	< 1	< 10	2.88	79	317	8.32	0.09	2.80	0.18	0.008	< 10	8	< 10
27193	4.8	9.3	3370	451	< 2	1040	238	345	3.63	< 10	18	< 1	< 10	2.47	71	191	5.09	0.05	2.04	0.15	0.018	< 10	4	< 10
27194	3.9	7.4	2600	475	< 2	962	184	314	3.16	< 10	19	< 1	< 10	1.72	68	309	5.89	0.06	2.81	0.13	0.003	< 10	6	< 10
27195	4.8	6.6	2380	577	< 2	1010	354	395	4.25	< 10	12	< 1	< 10	1.70	105	286	5.19	0.03	4.00	0.06	0.006	< 10	4	< 10
27196	5.0	5.5	2640	491	< 2	1230	307	385	3.48	< 10	21	< 1	< 10	1.19	116	401	9.72	0.09	2.94	0.07	0.005	< 10	4	< 10
27197	3.2	2.7	2220	438	< 2	1240	215	286	3.23	< 10	17	< 1	< 10	0.97	645	331	12.5	0.10	2.75	0.06	0.006	< 10	3	< 10
27198	3.0	2.5	903	245	< 2	825	300	189	4.82	< 10	8	< 1	14	2.99	82	368	5.79	0.03	1.50	0.19	0.013	< 10	4	< 10
27199	4.6	4.2	2110	239	< 2	1360	347	262	5.04	< 10	13	< 1	14	2.69	172	466	8.66	0.04	1.68	0.21	0.005	< 10	4	< 10
27200	1.1	1.4	8330	320	< 2	> 10000	5	43	0.65	< 10	6	< 1	< 10	0.42	615	35	33.6	0.12	0.18	0.09	0.047	11	4	< 10
27201	6.5	6.2	2080	178	< 2	668	549	217	7.38	< 10	11	< 1	19	4.95	55	245	4.58	0.02	1.16	0.37	0.011	< 10	4	< 10
27202	7.4	6.5	3660	172	< 2	1210	412	337	5.60	< 10	12	< 1	13	3.10	249	234	8.47	0.02	0.94	0.37	0.014	< 10	3	< 10
27203	7.9	8.5	5170	241	< 2	1440	309	494	4.53	< 10	12	< 1	< 10	2.37	117	176	9.54	0.03	1.05	0.26	0.015	< 10	2	< 10
27204	12.1	18.5	8810	226	< 2	1750	262	736	3.97	< 10	17	< 1	< 10	1.98	230	147	11.6	0.06	0.97	0.31	0.014	< 10	1	< 10
27205	36.0	50.0	> 10000	337	< 2	3060	189	1120	2.24	< 10	9	< 1	< 10	0.65	247	123	20.2	0.08	1.15	0.09	0.017	< 10	2	20
27206	41.1	95.8	> 10000	429	< 2	1200	250	3100	2.95	< 10	20	< 1	11	1.06	79	113	12.1	0.12	1.57	0.16	0.031	< 10	3	18
27207	21.3	31.8	> 10000	328	< 2	1010	337	1230	4.66	< 10	28	< 1	< 10	2.08	104	118	9.45	0.14	1.43	0.46	0.017	< 10	3	17
27208	9.0	18.3	8190	351	< 2	406	93	894	3.34	< 10	35	< 1	< 10	0.81	33	189	7.66	0.16	1.55	0.20	0.014	< 10	5	< 10
27209	22.7	103	> 10000	472	< 2	2760	169	4430	2.97	< 10	7	< 1	< 10	0.61	653	67	24.3	0.10	1.62	0.11	0.018	< 10	4	33
27210	< 0.2	< 0.5	7	13	< 2	5	< 2	12	0.05	< 10	11	< 1	< 10	0.04	3	3	0.11	0.01	0.02	0.02	0.005	< 10	< 1	< 10
27211	14.3	29.4	6070	596	< 2	458	448	1500	3.67	< 10	0	< 1	11	1.83	87	271	9.15	0.03	1.90	0.12	0.023	< 10	6	17
27182	0.9	2.6	740	281	< 2	134	12	129	3.83	< 10	21	< 1	< 10	3.23	28	160	2.36	0.03	1.14	0.30	0.023	< 10	8	< 10
27183	0.5	< 0.5	414	286	< 2	89	12	30	3.73	< 10	17	< 1	< 10	3.02	14	180	2.02	0.04	1.25	0.27	0.010	< 10	6	< 10
27184	1.5	< 0.5	1180	394	< 2	160	4	28	2.35	< 10	13	< 1	< 10	2.31	31	106	2.49	0.03	1.72	0.06	0.011	< 10	3	< 10
27185	0.5	< 0.5	435	541	< 2	383	3	35	3.04	< 10	11	< 1	< 10	2.04	47	240	4.00	0.03	3.35	0.10	0.004	< 10	6	< 10
27186	< 0.2	< 0.5	173	496	< 2	79	< 2	18	5.26	< 10	7	< 1	< 10	5.84	28	209	3.60	< 0.01	2.45	0.04	0.012	< 10	12	< 10
27187	3.1	3.0	1870	615	< 2	757	78	177	3.65	< 10	10	< 1	< 10	2.18	78	343	5.65	0.02	3.13	0.06	0.008	< 10	9	< 10
27188	9.7	6.0	5480	550	< 2	1050	111	278	3.48	< 10	15	< 1	14	1.83	95	251	7.52	0.04	3.43	0.08	0.008	< 10	6	< 10
27189	13.8	8.8	9180	445	< 2	2770	89	321	2.65	< 10	8	< 1	< 10	1.22	140	213	12.7	0.02	2.84	0.09	0.009	< 10	2	< 10
27190	8.6	< 0.5	1530	330	< 2	1660	< 2	25	6.27	< 10	25	< 1	< 10	3.12	55	166	3.99	0.04	3.46	0.36	0.003	< 10	4	< 10
27191	0.1	5.0	5320	444	< 2	1270	71	218	2.31	< 10	12	< 1	< 10	2.01	89	233	7.05	0.03	2.14	0.09	0.016	< 10	3	< 10
27222	0.2	< 0.5	179	454	4	77	6	97	3.23	< 10	133	< 1	< 10	0.40	23	154	3.84	0.44	2.65	0.06	0.021	< 10	7	< 10
27223	0.3	0.6	236	655	< 2	40	2	95	4.29	< 10	113	< 1	< 10	0.68	12	88	8.62	0.52	2.88	0.14	0.049	< 10	8	< 10
27224	< 0.2	< 0.5	34	469	< 2	18	< 2	83	4.24	< 10	178	< 1	< 10	0.72	12	116	5.08	0.71	3.15	0.09	0.045	< 10	9	< 10
27225	< 0.2	< 0.5	102	614	< 2	50	3	53	3.06	< 10	20	< 1	< 10	2.48	27	116	5.21	0.08	2.05	0.16	0.042	< 10	15	< 10
27226	0.2	< 0.5	123	890	< 2	80	2	58	3.31	< 10	16	< 1	< 10	2.77	30	114	6.46	0.07	2.15	0.20	0.038	< 10	16	< 10
27227	< 0.2	< 0.5	74	573	< 2	10	< 2	74	3.64	< 10	212	< 1	< 10	0.77	21	42	5.30	0.96	2.91	0.06	0.077	< 10	13	< 10
27228	< 0.2	< 0.5	16	744	< 2	4	< 2	72	4.36	< 10	185	< 1	< 10	0.89	14	70	5.01	0.74	3.25	0.09	0.087	< 10	11	< 10
27229	< 0.2	< 0.5	18	731	< 2	9	< 2	134	4.27	< 10	137	< 1	< 10	1.15	13	59	4.66	0.83	3.39	0.09	0.062	< 10	8	< 10
27230	< 0.2	< 0.5	3	11	< 2	< 1	< 2	2	0.05	< 10	11	< 1	< 10	0.04	< 1	< 2	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10
27231	< 0.2	< 0.5	37	821	< 2	16	< 2	130	4.34	< 10	184	< 1	< 10	1.18	16	78	4.98	0.88	3.19	0.08	0.064	< 10	11	< 10
27172	0.3	< 0.5	289	424	< 2	44	4	31	3.58	< 10	37	< 1	< 10	3.19	26	64	3.28	0.06	1.41	0.42	0.048	< 10	12	< 10
27173	0.2	< 0.5	273	284	< 2	81	5	28	2.06	< 10	46	<												

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27174	< 0.2	< 0.5	251	359	< 2	100	4	21	2.55	< 10	25	< 1	< 10	2.59	38	119	2.87	0.06	1.35	0.20	0.078	< 10	7	< 10
27175	< 0.2	< 0.5	269	347	< 2	106	3	21	1.68	< 10	14	< 1	< 10	1.83	43	112	3.02	0.03	1.71	0.11	0.077	< 10	8	< 10
27176	0.3	< 0.5	288	515	< 2	87	2	53	3.37	11	21	< 1	< 10	3.59	78	153	4.61	0.08	2.10	0.13	0.042	< 10	8	< 10
27177	0.4	< 0.5	387	90	< 2	82	4	8	6.21	< 10	17	< 1	< 10	4.31	10	85	0.78	< 0.01	0.46	0.76	0.005	< 10	2	< 10
27178	0.3	< 0.5	213	162	< 2	154	7	15	6.48	< 10	17	< 1	< 10	4.71	21	S24	1.69	0.01	1.02	0.82	0.006	< 10	5	< 10
27179	0.3	< 0.5	251	148	< 2	256	7	14	7.05	< 10	15	< 1	< 10	5.18	27	199	1.75	0.02	1.38	0.43	0.006	< 10	4	< 10
27180	< 0.2	< 0.5	3	10	< 2	< 1	< 2	2	0.04	< 10	13	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.02	0.004	< 10	< 1	< 10
27181	< 0.2	< 0.5	206	254	< 2	206	5	24	5.29	< 10	22	< 1	< 10	3.73	29	213	2.66	0.07	1.95	0.21	0.013	< 10	7	< 10
25641	0.7	< 0.5	304	284	< 2	303	18	24	5.24	< 10	13	< 1	< 10	3.67	34	152	2.72	0.02	1.80	0.41	0.005	< 10	5	< 10
26642	0.4	< 0.5	196	165	< 2	96	23	19	6.63	< 10	11	< 1	< 10	4.68	16	136	1.60	0.02	1.36	0.66	0.010	< 10	5	< 10
25643	1.0	< 0.5	293	131	< 2	85	20	18	8.48	< 10	22	< 1	< 10	4.24	13	105	1.34	0.07	1.14	0.60	0.008	< 10	3	< 10
25644	0.7	< 0.5	391	336	< 2	84	18	23	5.58	< 10	16	< 1	< 10	3.69	13	169	2.26	0.02	1.68	0.42	0.009	< 10	4	< 10
25645	1.0	< 0.5	386	274	< 2	166	20	30	6.08	< 10	32	< 1	< 10	4.21	23	123	1.92	0.02	1.36	0.62	0.008	< 10	5	< 10
25646	1.7	< 0.5	482	201	< 2	217	26	26	7.43	< 10	24	< 1	< 10	5.31	26	101	1.78	0.02	1.04	0.73	0.013	< 10	5	< 10
25647	1.1	< 0.5	290	133	< 2	84	24	16	7.20	< 10	17	< 1	< 10	5.11	13	112	1.11	0.02	0.76	0.72	0.017	< 10	4	< 10
26848	1.4	< 0.5	464	110	< 2	216	24	18	7.42	< 10	37	< 1	< 10	5.18	24	131	1.40	0.08	0.85	0.71	0.014	< 10	3	< 10
25649	1.4	< 0.5	516	242	< 2	209	23	23	6.97	< 10	16	< 1	< 10	5.31	29	223	2.32	0.02	1.41	0.58	0.009	< 10	7	< 10
26650	1.0	1.4	8290	326	< 2	> 10000	4	43	0.68	< 10	8	< 1	< 10	0.44	610	33	33.4	0.12	0.18	0.10	0.047	< 10	4	< 10
24194	7.8	6.2	5080	191	< 2	2780	270	310	3.85	< 10	10	< 1	< 10	1.23	555	108	19.2	0.10	1.00	0.30	0.013	< 10	3	< 10
24195	6.4	3.6	4100	164	< 2	4010	175	203	2.63	< 10	5	< 1	< 10	0.71	1140	138	25.4	0.18	1.03	0.16	0.008	< 10	3	< 10
24196	23.1	8.4	> 10000	124	< 2	5320	257	237	1.29	< 10	4	< 1	< 10	0.67	999	87	31.7	0.01	0.51	0.04	0.015	10	2	15
24197	18.4	10.0	> 10000	111	< 2	6150	273	277	1.33	< 10	5	< 1	< 10	0.64	503	68	33.6	0.01	0.52	0.07	0.023	10	2	16
24198	20.5	9.8	> 10000	214	< 2	5420	532	348	2.31	< 10	8	< 1	13	0.83	356	106	31.4	0.19	0.84	0.12	0.010	11	3	< 10
24199	25.6	23.9	> 10000	297	< 2	3640	296	532	2.94	< 10	26	< 1	< 10	1.29	249	86	21.3	0.09	1.08	0.16	0.016	< 10	4	< 10
24200	0.7	< 0.5	1450	323	< 2	1500	6	27	6.57	< 10	27	< 1	< 10	3.10	59	176	3.80	0.03	3.52	0.36	0.003	< 10	4	< 10
27148	0.4	< 0.5	321	121	< 2	123	5	18	5.60	< 10	33	< 1	< 10	4.09	22	246	1.83	0.11	1.25	0.69	0.008	< 10	4	< 10
27149	0.2	< 0.5	697	180	< 2	94	< 2	12	3.44	< 10	14	< 1	< 10	2.88	29	104	1.79	0.02	0.80	0.33	0.012	< 10	3	< 10
27151	< 0.2	< 0.5	70	140	< 2	67	< 2	9	4.60	< 10	28	< 1	< 10	3.59	12	157	1.36	0.04	1.00	0.53	0.012	< 10	4	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26001	16	0.30	71	< 10	14	6	0.047
26002	14	0.29	69	< 10	15	11	0.113
26003	10	0.07	4	< 10	25	48	0.011
26004	6	0.05	5	< 10	11	26	0.011
26005	4	0.03	3	< 10	11	27	0.011
26006	9	0.04	5	< 10	15	25	0.048
26007	4	0.02	5	< 10	15	26	0.559
26008	7	0.07	20	< 10	17	21	3.983
26009	38	0.15	95	< 10	29	6	0.496
26010	2	< 0.01	< 1	< 10	1	5	0.021
27192	22	0.05	43	< 10	2	3	1.771
27193	19	0.03	36	< 10	2	3	1.990
27194	16	0.04	47	< 10	2	3	1.915
27195	7	0.04	35	< 10	1	3	2.233
27196	16	0.04	53	< 10	< 1	3	3.033
27197	16	0.05	62	< 10	1	4	6.208
27198	51	0.03	43	< 10	1	2	1.817
27199	46	0.04	66	< 10	1	3	2.947
27200	18	0.10	63	< 10	18	20	9.212
27201	71	0.04	53	< 10	2	2	1.364
27202	55	0.05	67	< 10	2	3	3.525
27203	42	0.04	72	< 10	2	3	3.545
27204	35	0.04	64	< 10	2	4	5.033
27205	14	0.03	76	< 10	1	6	8.106
27206	18	0.05	72	< 10	3	4	5.327
27207	43	0.05	64	< 10	4	3	3.853
27208	30	0.05	73	< 10	3	3	1.830
27209	20	0.05	121	10	5	7	6.637
27210	2	< 0.01	< 1	< 10	1	5	0.038
27211	34	0.11	195	< 10	4	3	1.760
27182	45	0.05	46	< 10	3	2	0.491
27183	38	0.04	36	< 10	5	2	0.121
27184	18	0.04	21	< 10	5	2	0.285
27185	8	0.05	47	< 10	2	2	0.172
27186	10	0.09	113	< 10	7	2	0.157
27187	6	0.10	82	< 10	4	3	0.741
27188	4	0.05	42	< 10	2	3	2.054
27189	4	0.05	27	< 10	1	4	4.690
27190	69	0.02	36	< 10	< 1	2	0.473
27191	9	0.04	27	< 10	2	3	2.865
27222	18	0.11	33	< 10	11	13	0.104
27223	26	0.14	56	< 10	9	9	0.754
27224	21	0.12	48	< 10	10	11	0.042
27225	34	0.16	146	< 10	10	3	0.116
27226	38	0.18	144	< 10	9	3	0.148
27227	15	0.21	64	< 10	10	6	0.152
27228	25	0.17	72	< 10	14	8	0.019
27229	24	0.18	74	< 10	11	7	0.024
27230	2	< 0.01	< 1	< 10	1	5	0.017
27231	25	0.20	87	< 10	10	7	0.031
27172	83	0.15	104	< 10	8	2	0.261
27173	47	0.17	59	< 10	5	3	0.487

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27174	52	0.20	75	< 10	10	10	0.616
27175	18	0.20	89	< 10	7	12	0.503
27176	38	0.23	91	< 10	10	3	0.872
27177	122	0.02	15	< 10	< 1	< 1	0.143
27178	119	0.05	44	< 10	1	< 1	0.222
27179	95	0.04	28	< 10	1	< 1	0.199
27180	2	< 0.01	< 1	< 10	1	5	0.017
27181	52	0.08	66	< 10	3	1	0.218
25841	64	0.03	26	< 10	2	2	0.461
26842	82	0.03	26	< 10	2	1	0.081
25843	78	0.03	30	< 10	1	1	0.105
26844	54	0.03	31	< 10	2	2	0.106
25845	84	0.03	29	< 10	2	2	0.221
25846	109	0.03	28	< 10	1	1	0.312
25847	101	0.02	19	< 10	1	1	0.114
29848	103	0.03	24	< 10	2	1	0.257
25849	108	0.04	37	< 10	2	1	0.385
26850	18	0.11	63	< 10	18	19	7.087
24194	32	0.04	112	< 10	1	5	6.421
24195	17	0.04	99	< 10	< 1	7	7.931
24196	8	0.04	94	< 10	1	8	8.521
24197	7	0.03	67	34	1	9	7.573
24198	13	0.04	99	< 10	< 1	8	7.636
24199	20	0.03	91	< 10	1	6	6.298
24200	76	0.02	37	< 10	< 1	1	0.508
27148	68	0.04	31	< 10	3	1	0.767
27149	44	0.11	34	< 10	3	3	0.380
27151	75	0.06	31	< 10	2	1	0.133

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GXR-1 Meas	24.5	3.2	1130	716	14	16	998	589	0.62	311	315	<1	1360	0.80	8	6	22.9	0.03	0.15	0.05	0.035	73	1	24
GXR-1 Cert	31.0	3.30	1110	952	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-1 Meas			967																					
GXR-1 Cert			1110																					
GXR-4 Meas	3.6	0.5	6260	150	352	40	44	69	3.10	104	26	2	15	1.02	16	62	3.67	1.54	1.85	0.13	0.128	<10	7	<10
GXR-4 Cert	4.20	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.68	0.864	0.120	4.80	7.70	5.60
GXR-4 Meas			6580																					
GXR-4 Cert			6520																					
GXR-2 Meas	21.7	5.5	83	1230	<2	20	861	637	4.06	<10	1140	1	<10	0.89	12	32	2.52	0.65	0.62	0.17	0.065	31	6	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-2 Meas			90																					
GXR-2 Cert			70.0																					
GXR-6 Meas	0.3	<0.5	67	1120	<2	22	100	126	8.02	237	980	1	<10	0.17	15	91	5.67	1.03	0.46	0.07	0.034	<10	27	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	3.8	96.0	5.58	1.87	0.608	0.104	0.0360	3.80	27.8	1.70
GXR-6 Meas			69																					
GXR-6 Cert			60.0																					
OREAS 13P Meas			2790			2300											5.97							
OREAS 13P Cert			2500			2260											7.58							
OREAS 13P Meas			2460																					
OREAS 13P Cert			2500																					
26001 Org	<0.2	<0.5	13	836	<2	4	9	133	4.22	<10	182	<1	<10	1.81	12	62	5.02	1.22	2.16	0.07	0.082	<10	11	<10
26001 Dup	<0.2	<0.5	13	844	<2	3	9	106	4.28	<10	193	<1	<10	1.84	13	64	5.08	1.23	2.17	0.07	0.085	<10	11	<10
27155 Org	4.6	6.4	2370	579	<2	1000	348	398	4.25	<10	12	<1	<10	1.70	103	288	5.18	0.03	4.01	0.06	0.007	<10	4	<10
27155 Dup	4.6	6.8	2400	575	<2	1020	359	403	4.24	<10	11	<1	<10	1.70	107	285	5.20	0.03	3.98	0.06	0.006	<10	4	<10
27205 Org	22.5	103	>10000	468	<2	2800	165	4420	2.87	<10	6	<1	<10	0.60	855	65	24.6	0.10	1.61	0.11	0.018	<10	4	32
27205 Dup	22.9	103	>10000	476	<2	2720	172	4410	2.88	<10	8	<1	<10	0.61	850	66	24.1	0.10	1.63	0.11	0.019	<10	4	33
27210 Org			7																					
27210 Dup			7																					
27172 Org	0.2	<0.5	269	425	<2	44	4	31	3.57	<10	37	<1	<10	3.20	25	84	3.26	0.06	1.42	0.42	0.048	<10	12	<10
27172 Dup	0.3	<0.5	290	422	<2	45	3	30	3.69	<10	37	<1	<10	3.18	27	84	3.28	0.06	1.40	0.42	0.048	<10	12	<10
25845 Org	1.0	<0.5	386	274	<2	166	20	30	6.13	<10	30	<1	<10	4.20	24	125	1.93	0.02	1.35	0.62	0.008	<10	5	<10
25845 Dup	1.1	0.5	394	274	<2	166	20	30	6.03	<10	35	<1	<10	4.23	22	121	1.92	0.02	1.38	0.63	0.007	<10	5	<10
27148 Org	0.4	<0.5	313	111	<2	120	5	19	5.65	<10	32	<1	<10	4.06	22	246	1.83	0.11	1.24	0.58	0.007	<10	4	<10
27148 Dup	0.4	<0.5	330	131	<2	126	5	18	5.66	<10	33	<1	<10	4.12	23	248	1.83	0.11	1.25	0.60	0.008	<10	4	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	2	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	9	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method																								
Blank																								
Method Blank Method																								
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	189		89	124	22	17	0.187
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-1 Meas							
GXR-1 Cert							
GXR-4 Meas	80		90	14	13	11	1.959
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-4 Meas							
GXR-4 Cert							
GXR-2 Meas	94		57	< 10	13	11	0.043
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-2 Meas							
GXR-2 Cert							
GXR-6 Meas	31		179	< 10	7	12	0.017
GXR-6 Cert	36.0		186	1.90	14.0	110	0.0160
GXR-6 Meas							
GXR-6 Cert							
OREAS 13P Meas							
OREAS 13P Cert							
OREAS 13P Meas							
OREAS 13P Cert							
26001 Orig	16	0.26	71	< 10	14	8	0.047
26001 Dup	16	0.30	72	< 10	14	8	0.048
27155 Orig	7	0.04	36	< 10	1	3	2.209
27155 Dup	7	0.04	35	< 10	1	3	2.257
27205 Orig	20	0.05	121	10	5	7	8.741
27205 Dup	20	0.05	121	11	5	7	8.533
27210 Orig							
27210 Dup							
27172 Orig	83	0.15	104	< 10	8	2	0.253
27172 Dup	83	0.16	104	< 10	8	2	0.268
25845 Orig	94	0.03	28	< 10	2	2	0.224
25845 Dup	94	0.03	30	< 10	2	2	0.218
27148 Orig	95	0.04	31	< 10	3	1	0.268
27148 Dup	70	0.05	31	< 10	3	1	0.268
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method							
Blank							
Method Blank Method							
Blank							



Date Submitted: 26-May-08
Invoice No.: A08-2659
Invoice Date: 21-Jul-08
Your Reference: DOSSIER #22290

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

90 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2659**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2659 Revised

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
25661	7.3	4.5	2390	110	<2	1220	128	57	6.66	<10	17	<1	<10	4.79	103	326	5.92	0.03	0.72	0.42	0.015	<10	2	<10	
25662	7.1	6.3	2240	182	<2	1040	83	57	5.06	<10	11	<1	<10	3.68	79	136	4.82	0.01	1.12	0.19	0.005	<10	4	<10	
25663	3.9	2.9	960	220	<2	344	151	31	6.58	<10	14	<1	<10	5.01	23	166	2.39	0.01	0.98	0.39	0.013	<10	5	<10	
25664	4.4	3.7	1600	204	<2	1070	137	40	5.35	<10	12	<1	<10	3.98	87	145	4.83	0.01	1.07	0.52	0.008	<10	5	<10	
25665	4.3	3.5	2270	151	<2	1580	106	33	4.69	<10	10	<1	<10	3.53	124	109	6.42	<0.01	0.76	0.49	0.008	<10	3	<10	
25666	5.6	2.9	3090	207	<2	2980	63	29	3.52	<10	10	<1	<10	2.32	209	113	12.1	<0.01	0.59	0.35	0.008	<10	5	<10	
25667	1.7	1.5	514	165	<2	836	75	19	4.53	<10	11	<1	<10	3.25	80	84	4.30	<0.01	0.75	0.60	0.008	<10	4	<10	
25668	2.1	2.8	845	240	<2	790	73	31	4.39	<10	12	<1	<10	3.24	59	116	4.34	0.01	1.04	0.56	0.011	<10	6	<10	
25669	3.8	4.6	1770	342	<2	792	73	54	4.06	<10	10	<1	<10	3.12	70	168	4.97	0.01	1.48	0.50	0.010	<10	6	<10	
25690	0.6	0.6	1480	321	<2	1620	<2	27	6.78	<10	26	<1	<10	3.18	62	174	3.81	0.02	3.65	0.40	0.002	<10	3	<10	
25801	0.8	0.8	699	117	<2	317	5	14	10.0	<10	13	<1	<10	6.58	23	165	1.51	0.04	0.97	0.88	0.005	<10	4	<10	
25602	0.3	<0.5	362	95	<2	69	5	10	7.45	<10	10	<1	<10	5.22	9	132	0.90	0.02	0.72	0.72	0.005	<10	3	<10	
25803	<0.2	<0.5	211	118	<2	129	<2	14	7.79	<10	29	<1	<10	5.26	16	198	1.52	0.20	7.79	1.45	0.52	0.006	<10	4	<10
25804	0.4	<0.5	368	139	<2	255	2	20	7.00	<10	17	<1	<10	4.71	25	182	1.90	0.11	1.97	0.30	0.003	<10	3	<10	
25805	<0.2	<0.5	182	94	<2	128	2	13	6.82	<10	15	<1	<10	4.70	15	163	1.23	0.09	1.28	0.38	0.003	<10	3	<10	
25806	0.4	<0.5	296	112	<2	106	3	14	7.01	<10	9	<1	<10	6.07	14	202	1.10	0.03	0.90	0.63	0.006	<10	2	<10	
25807	<0.2	<0.5	92	176	<2	107	<2	20	6.40	<10	9	<1	<10	4.61	14	149	1.71	0.03	1.45	0.42	0.004	<10	2	<10	
25808	0.3	<0.5	236	121	<2	163	3	19	6.45	<10	22	<1	<10	4.33	25	166	1.76	0.14	1.94	0.36	0.004	<10	2	<10	
25809	<0.2	<0.5	9	71	<2	63	<2	10	3.75	<10	9	<1	<10	2.58	9	138	0.75	0.03	0.85	0.40	<0.001	<10	2	<10	
25810	<0.2	<0.5	3	9	<2	<1	<2	2	0.03	<10	7	<1	<10	0.03	<1	3	0.64	0.01	0.01	0.01	0.003	<10	<1	<10	
25371	0.8	1.0	363	249	<2	34	<2	53	3.26	<10	216	<1	<10	0.24	12	91	3.09	0.80	2.01	0.10	0.016	<10	7	<10	
25372	0.9	0.9	620	159	<2	39	2	43	2.59	<10	88	<1	<10	0.17	11	106	2.66	0.28	1.43	0.09	0.013	<10	4	<10	
25373	1.1	1.1	667	262	4	95	2	51	3.34	<10	85	<1	<10	0.92	18	141	3.49	0.36	2.16	0.17	0.018	<10	6	<10	
25374	<0.2	<0.5	40	176	<2	39	8	12	4.17	<10	12	<1	<10	3.25	8	176	1.23	0.02	0.94	0.44	0.010	<10	4	<10	
25375	<0.2	<0.5	28	96	<2	46	8	11	4.71	<10	57	<1	<10	3.07	9	133	1.17	0.14	1.08	0.50	0.004	<10	3	<10	
25376	0.3	<0.5	127	101	<2	110	14	16	6.20	<10	30	<1	<10	4.56	16	96	1.22	0.10	1.04	0.41	0.007	<10	3	<10	
25377	0.3	<0.5	120	86	<2	81	15	7	5.43	<10	10	<1	<10	4.04	13	63	0.80	0.01	0.80	0.51	0.006	<10	3	<10	
25378	0.4	<0.5	153	104	<2	66	14	8	5.24	<10	13	<1	<10	3.79	10	64	0.84	<0.01	0.58	0.60	0.010	<10	3	<10	
25379	0.3	<0.5	139	108	<2	64	13	8	5.63	<10	14	<1	<10	4.08	11	82	0.88	<0.01	0.88	0.66	0.007	<10	3	<10	
25380	<0.2	<0.5	4	8	<2	<1	<2	1	0.04	<10	7	<1	<10	0.04	<1	2	0.04	0.01	0.02	0.01	0.003	<10	<1	<10	
25621	<0.2	1.0	6	403	<2	8	6	71	3.69	<10	182	<1	<10	0.34	13	46	4.39	1.08	2.27	0.09	0.077	<10	9	<10	
25622	<0.2	0.9	20	482	<2	9	4	79	4.49	<10	251	<1	<10	0.35	15	111	4.64	1.16	2.24	0.10	0.082	<10	9	<10	
25623	0.3	1.0	130	594	<2	14	12	128	5.51	<10	431	<1	<10	1.47	13	60	5.04	1.41	2.65	0.22	0.078	<10	12	<10	
25624	<0.2	0.7	30	596	<2	6	8	88	4.04	<10	242	<1	<10	1.40	9	71	3.75	0.93	1.56	0.17	0.050	<10	7	<10	
25625	<0.2	0.7	75	394	<2	6	5	58	2.83	<10	129	<1	<10	0.33	5	116	3.27	0.78	1.25	0.08	0.005	<10	2	<10	
25626	<0.2	0.6	9	407	<2	3	3	56	3.33	<10	131	<1	<10	0.55	4	65	3.09	0.79	1.96	0.06	0.005	<10	3	<10	
25627	<0.2	0.6	8	336	<2	19	6	71	3.51	<10	116	<1	<10	1.23	12	145	2.91	0.83	2.08	0.09	0.010	<10	8	<10	
25628	<0.2	1.4	104	463	<2	26	3	221	3.21	<10	154	<1	<10	0.45	14	147	5.09	0.90	1.90	0.07	0.014	<10	7	<10	
25629	<0.2	1.1	4	556	<2	10	3	79	4.06	<10	330	<1	<10	0.94	8	86	4.71	1.03	1.65	0.16	0.043	<10	7	<10	
25630	<0.2	<0.5	3	10	<2	<1	<2	2	0.04	<10	8	<1	<10	0.04	<1	<2	0.05	0.01	0.02	0.01	0.004	<10	<1	<10	
25671	2.4	1.1	385	188	<2	176	70	26	5.80	<10	13	<1	<10	4.34	22	153	1.78	0.02	1.00	0.57	0.011	<10	5	<10	
25672	3.4	1.9	1120	202	<2	585	61	39	5.14	<10	11	<1	<10	3.89	41	143	3.38	0.02	1.10	0.52	0.012	<10	6	<10	
25673	8.5	3.9	3120	215	<2	1230	61	60	4.87	<10	14	<1	<10	3.53	71	149	6.05	0.23	1.20	0.50	0.008	<10	6	<10	
25674	2.6	3.2	730	320	<2	417	81	60	6.35	<10	20	<1	<10	4.67	35	212	4.68	0.04	1.90	0.76	0.011	<10	10	<10	
25675	3.3	4.3	2520	253	<2	1280	98	65	5.65	<10	16	<1	<10	3.99	102	165	6.31	0.02	1.34	0.65	0.016	<10	7	<10	
25676	7.0	2.0	1240	212	<2	699	90	36	4.65	<10	12	<1	<10	3.50	77	170	4.45	0.01	0.95	0.52	0.017	<10	6	<10	
25677	7.0	3.8	2470	91	<2	634	66	42	3.80	<10	11	<1	<10	2.71	77	93	3.06	<0.01	0.40	0.45	0.013	<10	2	<10	
25678	3.3	2.1	1130	179	<2	1200	69	40	4.82	<10	13	<1	<10	3.31	53	141	5.27	0.02	1.02	0.58	0.007	<10	8	<10	
25679	4.5	2.5	1770	209	<2	3360	63	54	4.55	<10	22	<1	<10	2.62	222	287	12.9	0.07	1.25	0.44	0.005	<10	5	<10	
25680	<0.2	<0.5	4	11	<2	2	<2	1	0.04	<10	7	<1	<10	0.04	<1	3	0.05	0.01	0.02	0.01	0.003	<10	<1	<10	
25611	<0.2	<0.5	52	68	<2	106	3	14	1.23	<10	45	<1	<10	0.32	13	123	1.10	0.17	1.10	0.10	<0.001	<10	2	<10	
25612	<0.2	<0.5	26	147	<2	22	<2	30	3.22	<10	213	1	<10	0.06	8	71	1.65	0.36	1.76	0.07	0.002	<10	4	<10	

Activation Laboratories Ltd. Report: A08-2659 Revised

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	<10	1	1	<10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
25813	0.5	0.7	450	189	<2	23	<2	42	3.61	<10	187	<1	<10	0.07	9	113	2.41	0.84	2.18	0.08	0.004	<10	5	<10
25814	0.7	1.0	723	234	<2	66	<2	50	3.69	<10	211	<1	<10	0.06	22	50	3.93	1.23	2.79	0.09	0.005	<10	7	<10
25815	2.3	1.5	2010	186	<2	85	<2	80	3.11	<10	102	<1	<10	0.11	22	48	3.85	0.78	2.10	0.08	0.005	<10	9	<10
25816	1.6	1.3	1390	212	<2	76	4	55	3.33	<10	112	<1	<10	0.12	24	72	3.53	0.65	1.85	0.10	0.003	<10	7	<10
25817	1.3	0.9	893	234	<2	40	<2	71	3.44	<10	185	<1	<10	0.24	14	54	3.38	0.88	2.29	0.12	0.002	<10	7	<10
25818	0.4	0.7	329	197	<2	50	<2	55	3.16	<10	125	2	<10	0.44	13	53	2.91	0.99	2.08	0.16	0.001	<10	9	<10
25819	0.3	<0.5	236	199	<2	20	<2	44	3.03	<10	194	<1	<10	0.15	9	66	2.25	0.69	1.71	0.08	0.006	<10	3	<10
25820	0.6	0.6	1360	297	<2	1410	<2	25	6.19	<10	23	<1	<10	2.95	57	162	3.50	0.02	3.35	0.36	0.002	<10	3	<10
25821	0.6	0.6	309	213	<2	25	<2	45	3.28	<10	265	<1	<10	0.44	9	96	2.43	0.58	1.65	0.14	0.005	<10	4	<10
25822	<0.2	0.7	187	276	<2	17	3	38	4.67	<10	186	<1	<10	2.22	10	66	2.73	0.66	1.93	0.17	0.016	<10	6	<10
25823	1.0	1.0	899	163	<2	16	2	80	5.14	<10	128	<1	<10	2.19	19	49	3.88	0.79	1.99	0.19	0.015	<10	5	<10
25824	0.3	1.2	734	287	<2	12	2	55	4.61	<10	165	<1	<10	1.73	13	53	4.09	0.69	2.44	0.16	0.015	<10	6	<10
25825	0.3	0.8	215	303	<2	98	2	69	6.08	<10	232	<1	<10	2.42	19	220	4.13	0.83	2.87	0.28	0.004	<10	9	<10
25826	0.7	0.6	457	154	<2	19	3	42	3.62	<10	52	<1	<10	1.10	14	75	2.12	0.13	1.29	0.26	0.004	<10	2	<10
25827	0.4	0.5	186	125	<2	94	3	49	4.94	<10	156	<1	<10	2.43	32	242	2.23	0.49	1.98	0.27	0.003	<10	5	<10
25828	<0.2	<0.5	79	99	<2	43	6	21	6.14	<10	40	<1	<10	4.11	7	188	1.09	0.10	1.04	0.21	0.006	<10	2	<10
25829	1.8	0.7	752	59	<2	126	13	20	6.77	<10	13	<1	<10	5.05	12	51	0.75	0.02	0.42	0.31	0.022	<10	1	<10
25830	<0.2	<0.6	3	11	<2	1	<2	1	0.03	<10	9	<1	<10	0.04	<1	2	0.04	0.01	0.02	0.02	0.003	<10	<1	<10
25831	2.5	1.2	1150	133	<2	296	6	38	5.37	<10	12	<1	<10	3.89	36	77	2.10	0.10	1.49	0.18	0.008	<10	3	<10
25832	4.0	1.7	1930	105	<2	465	10	35	5.65	<10	8	<1	<10	4.18	54	61	2.16	0.04	0.92	0.30	0.009	<10	3	<10
25833	2.7	1.3	1260	73	<2	690	17	22	6.74	<10	12	<1	<10	4.64	69	65	1.99	0.03	0.55	0.65	0.003	<10	3	<10
25834	0.2	<0.5	129	58	<2	155	13	14	4.65	<10	13	<1	<10	3.30	11	56	0.68	0.03	0.57	0.55	0.016	<10	2	<10
25835	0.6	0.6	280	93	<2	278	8	14	3.76	<10	22	<1	<10	2.49	17	86	1.03	0.07	0.85	0.42	0.017	<10	2	<10
25836	1.6	0.6	664	117	<2	137	14	17	4.67	<10	39	<1	<10	3.13	15	113	1.19	0.10	0.85	0.61	0.010	<10	3	<10
25837	5.6	1.3	1970	162	<2	202	22	34	5.11	<10	19	<1	<10	3.58	29	110	1.82	0.02	0.97	0.62	0.006	<10	4	<10
25838	4.8	1.2	1450	184	<2	234	21	33	4.40	<10	15	<1	<10	3.04	29	105	1.89	0.02	1.04	0.51	0.006	<10	4	<10
25839	1.8	1.0	571	257	<2	490	16	37	4.39	<10	12	<1	<10	2.78	49	103	2.95	0.02	1.44	0.35	0.003	<10	3	<10
25840	0.6	0.6	1360	304	<2	1450	10	28	6.30	<10	23	<1	<10	2.99	60	164	3.57	0.02	3.42	0.36	0.002	<10	3	<10
25431	1.3	2.0	1370	885	<2	1250	26	482	3.62	<10	20	<1	<10	0.54	112	69	11.2	1.44	2.01	0.11	0.046	<10	8	<10
25432	1.2	11.0	1270	571	<2	235	9	595	3.18	<10	65	<1	<10	0.65	13	16	5.56	0.88	2.09	0.06	0.058	<10	7	<10
25433	<0.2	0.9	10	571	<2	10	16	89	3.67	<10	205	<1	<10	0.91	15	26	4.36	0.95	2.12	0.09	0.073	<10	8	<10
25434	<0.2	0.8	16	576	7	7	19	82	2.85	<10	108	<1	<10	1.11	8	49	3.34	0.47	1.83	0.04	0.038	<10	6	<10
25435	<0.2	0.6	2	557	<2	6	10	100	2.65	<10	105	<1	<10	0.74	7	47	3.02	0.56	2.14	0.05	0.032	<10	5	<10
25436	<0.2	1.0	17	758	<2	11	2	160	4.26	<10	195	<1	<10	1.12	12	53	4.89	0.77	2.92	0.11	0.073	<10	10	<10
25437	<0.2	0.7	10	453	<2	6	<2	73	2.27	<10	79	<1	<10	0.47	5	60	2.99	0.28	1.37	0.04	0.011	<10	3	<10
25438	<0.2	0.7	43	385	2	6	2	66	2.04	<10	53	<1	<10	0.59	11	33	3.75	0.23	1.25	0.04	0.044	<10	5	<10
25439	<0.2	1.3	58	534	<2	10	<2	63	2.41	<10	16	<1	<10	2.11	21	40	6.48	0.07	0.94	0.16	0.114	<10	11	<10
25440	0.5	0.7	1530	309	<2	1590	4	26	6.07	<10	19	<1	<10	2.97	50	142	3.37	0.03	3.31	0.32	0.002	<10	3	<10

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Analyte Symbol	Sr	Ti	V	W	Y	Zr	S	Ag	Al	As	Ba	Be	Bi	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	%	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001	0.2	0.01	10	1	1	10	0.01	0.5	1	2	0.01	0.01	0.01	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25661	97	0.02	<1	<10	<1	2	2.174																
25662	96	0.03	27	<10	<1	2	1.909																
25663	93	0.05	30	<10	2	1	0.878																
25664	90	0.03	31	<10	1	2	1.757																
25665	77	0.02	24	<10	<1	2	2.537																
25666	50	0.03	32	<10	<1	4	5.264																
25667	69	0.02	22	<10	<1	2	1.647																
25668	61	0.04	34	<10	2	2	1.494																
25669	49	0.04	<1	<10	2	2	1.431																
25690	72	0.02	36	<10	<1	1	0.505	0.7	5.77	<10	28	<1	<10	2.98	<0.5	63	176	3.85	0.03	3.63	313	<2	0.36
25801	134	0.03	21	<10	<1	<1	0.261																
25602	109	0.02	14	<10	<1	<1	0.106																
25803	103	0.04	25	<10	<1	<1	0.078																
25804	79	0.03	21	<10	<1	<1	0.114																
25605	69	0.02	18	<10	<1	<1	0.074																
25806	103	0.02	20	<10	<1	<1	0.093																
25607	81	0.02	19	<10	<1	<1	0.054																
25608	67	0.03	21	<10	<1	<1	0.079																
25809	41	<0.01	10	<10	1	<1	0.021																
25810	1	<0.01	<1	<10	<1	4	0.015																
25371	8	0.12	43	<10	3	3	0.158																
25372	6	0.10	23	<10	3	4	0.438																
25373	15	0.10	43	<10	5	3	0.391																
25374	57	0.03	25	<10	1	<1	0.045																
25375	63	0.05	24	<10	2	<1	0.041																
25376	91	0.03	21	<10	<1	<1	0.120																
25377	88	0.02	14	<10	<1	<1	0.114																
25378	69	0.02	16	<10	<1	<1	0.116																
25379	96	0.02	16	<10	<1	<1	0.094																
25380	1	<0.01	<1	<10	<1	3	0.016																
25621	10	0.15	70	<10	5	6	0.007																
25622	15	0.20	88	<10	6	10	0.008																
25623	21	0.23	76	<10	7	8	0.054																
25624	20	0.17	41	<10	9	12	0.060																
25625	10	0.07	2	<10	7	24	0.063																
25626	13	0.07	2	<10	8	19	0.036																
25627	17	0.09	33	<10	9	20	0.013																
25628	10	0.06	47	<10	10	16	0.148																
25629	15	0.15	61	<10	10	11	0.010																
25630	1	<0.01	<1	<10	1	4	0.016																
25671	91	0.04	30	<10	2	<1	0.305																
25672	79	0.04	34	<10	1	2	1.051																
25673	67	0.04	42	<10	1	3	2.429																
25674	67	0.07	65	<10	3	2	0.752																
25675	91	0.05	55	<10	2	3	2.311																
25676	74	0.04	49	<10	2	2	1.555																
25677	59	0.02	23	<10	<1	2	1.399																
25678	58	0.04	48	<10	2	2	2.007																
25679	48	0.05	94	<10	1	4	5.226																
25880	2	<0.01	<1	<10	1	4	0.018																
25811	8	0.02	20	<10	2	2	0.170																
25812	7	0.04	16	<10	1	2	0.028																

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Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001	0.2	0.01	10	1	1	10	0.01	0.5	1	2	ppm	0.01	0.01	0.01	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25813	7	0.04	17	< 10	1	2	0.073																	
25814	10	0.05	19	< 10	1	2	0.304																	
25815	10	0.07	31	< 10	1	2	0.729																	
25816	9	0.08	28	< 10	1	3	0.553																	
25817	12	0.10	30	< 10	2	2	0.176																	
25818	18	0.08	17	< 10	1	2	0.228																	
25819	22	0.07	11	< 10	2	2	0.037																	
25820	88	0.02	34	< 10	< 1	1	0.461																	
25821	39	0.08	17	< 10	2	3	0.073																	
25822	114	0.11	26	< 10	4	4	0.144																	
25823	19	0.09	23	< 10	4	5	0.837																	
25824	35	0.06	23	< 10	6	5	0.395																	
25825	39	0.12	50	< 10	2	2	0.197																	
25826	18	0.04	15	< 10	2	4	0.315																	
25827	28	0.07	54	< 10	2	1	0.164																	
25828	42	0.03	26	< 10	< 1	< 1	0.042																	
25829	75	< 0.01	7	< 10	1	< 1	0.222																	
25830	1	< 0.01	< 1	< 10	< 1	4	0.016																	
25831	88	0.03	19	< 10	< 1	< 1	0.484																	
25832	74	0.03	19	< 10	< 1	1	0.796																	
25833	88	0.01	17	< 10	< 1	< 1	0.945																	
25834	62	0.01	12	< 10	1	< 1	0.120																	
25835	46	0.02	14	< 10	2	1	0.222																	
25836	85	0.03	19	< 10	1	1	0.230																	
25837	74	0.03	23	< 10	1	1	0.549																	
25838	63	0.03	26	< 10	1	1	0.536																	
25839	53	0.02	21	< 10	< 1	2	0.830																	
25840	68	0.02	34	< 10	< 1	1	0.482																	
25431	7	0.18	37	< 10	7	9	3.368																	
25432	10	0.18	45	< 10	8	5	1.070																	
25433	13	0.21	60	< 10	9	4	0.060																	
25434	10	0.18	33	< 10	16	9	0.040																	
25435	10	0.13	27	< 10	14	11	0.009																	
25436	18	0.17	67	< 10	12	7	0.019																	
25437	8	0.06	7	< 10	21	14	0.023																	
25438	8	0.10	33	< 10	19	6	0.130																	
25439	30	0.12	82	< 10	19	4	0.178																	
25440	61	0.02	33	< 10	< 1	1	0.468																	

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Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Se	Sr	Ti	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	2	0.001	10	1	10	1	0.01	1	10	1	1	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

25661														
25662														
25663														
25664														
25665														
25666														
25667														
25668														
25669														
25690	0.003	6	0.518	< 10	3	< 10	78	0.02	38	< 10	< 1	26	1	
25801														
25802														
25803														
25804														
25805														
25806														
25807														
25808														
25809														
25810														
25371														
25372														
25373														
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25621														
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25629														
25630														
25671														
25672														
25673														
25674														
25875														
25676														
25677														
25678														
25679														
25680														
25811														
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Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Se	Sr	Ti	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	2	0.001	10	1	10	1	0.01	1	10	1	1	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.9	3.3	1190	778	15	38	596	646	0.35	360	298	<1	1460	0.81	9	8	25.3	0.02	0.14	0.07	0.041	77	1	31
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.4	1.0	6360	143	335	41	43	70	2.86	99	25	1	17	1.01	15	57	3.47	1.41	1.75	0.13	0.119	<10	7	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.8	5.0	84	1110	<2	19	808	590	3.84	15	1180	1	<10	0.88	11	28	2.30	0.60	0.59	0.27	0.060	33	6	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	1.4	70	1010	<2	25	91	120	7.57	200	90	<1	<10	0.18	15	83	5.12	0.82	0.42	0.16	0.031	<10	23	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.9	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2590			2140											5.76							
OREAS 13P Cert			2500			2280											7.58							
25803 Ong	< 0.2	< 0.5	217	124	< 2	133	3	15	8.01	< 10	31	< 1	< 10	5.42	17	200	1.59	0.21	1.53	0.54	0.006	< 10	4	< 10
25803 Dup	< 0.2	< 0.5	205	112	< 2	124	< 2	13	7.57	< 10	28	< 1	< 10	5.10	15	197	1.44	0.19	1.37	0.50	0.005	< 10	3	< 10
26377 Ong	0.3	< 0.5	120	87	< 2	82	16	7	5.61	< 10	11	< 1	< 10	4.13	13	63	0.81	0.01	0.61	0.62	0.006	< 10	3	< 10
26377 Dup	0.3	< 0.5	120	85	< 2	79	14	8	5.35	< 10	10	< 1	< 10	3.95	13	62	0.79	0.01	0.68	0.50	0.006	< 10	3	< 10
25630 Ong	< 0.2	< 0.5	3	10	< 2	< 1	< 2	1	0.04	< 10	8	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10
25630 Dup	< 0.2	< 0.5	4	9	< 2	< 1	< 2	2	0.04	< 10	7	< 1	< 10	0.04	< 1	< 2	0.04	0.01	0.02	0.01	0.004	< 10	< 1	< 10
25614 Ong	0.7	1.0	685	226	< 2	63	< 2	59	3.75	< 10	207	< 1	< 10	0.06	21	46	3.82	1.19	2.70	0.08	0.005	< 10	7	< 10
25614 Dup	0.8	1.0	752	243	< 2	68	< 2	61	4.02	< 10	215	< 1	< 10	0.06	24	53	4.05	1.27	2.88	0.09	0.005	< 10	7	< 10
25637 Ong	5.8	1.1	2010	158	< 2	203	23	32	5.03	< 10	19	< 1	< 10	3.53	30	110	1.80	0.02	0.95	0.61	0.008	< 10	4	< 10
25637 Dup	5.6	1.5	1940	166	< 2	200	21	35	5.16	< 10	18	< 1	< 10	3.64	28	111	1.84	0.02	0.98	0.63	0.006	< 10	4	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method																								
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001	0.2	0.01	10	1	1	10	0.01	0.5	1	2	1	0.01	0.01	0.01	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	194		81	146	25	16	0.205	29.9	0.32	383	190	<1	1440	0.82	3.4	9	6	1110	25.1	0.03	0.14	878	16	0.06
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257	31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	0.9500	0.217	852	18.0	0.0520
GXR-4 Meas	72		67	12	12	10	1.963	3.9	2.44	101	31	1	29	0.92	0.5	16	55	5850	3.55	1.42	1.69	139	354	0.11
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77	4.00	7.20	98.0	1640	1.60	19.0	1.01	0.660	14.6	64.0	6520	3.05	4.01	1.66	155	310	0.964
GXR-2 Meas	96		54	<10	12	11	0.039	24.3	3.67	14	1130	1	<10	0.82	5.5	11	29	95	2.58	0.64	0.60	1150	<2	0.20
GXR-2 Cert	180		52.0	<10	17.0	269	0.0313	17.0	16.5	25.0	2240	1.70	0.690	0.930	4.10	8.60	35.0	76.0	1.88	1.37	0.850	1010	2.10	0.566
GXR-6 Meas	32		175	<10	6	7	0.015	0.3	6.61	231	896	<1	<10	0.17	1.0	15	83	66	6.41	0.91	0.42	991	<2	0.10
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160	1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.6	95.0	66.0	5.58	1.87	0.999	1010	2.40	0.104
OREAS 13P Meas																		2950	6.79					
OREAS 13P Cert																		2500	7.58					
25603 Orig	106	0.04	26	<10	1	<1	0.078																	
25603 Dup	100	0.03	23	<10	<1	<1	0.074																	
25637 Orig	89	0.02	16	<10	<1	<1	0.113																	
25637 Dup	84	0.02	14	<10	<1	<1	0.116																	
25630 Orig	1	<0.01	<1	<10	1	4	0.017																	
25630 Dup	2	<0.01	<1	<10	1	4	0.016																	
25614 Orig	10	0.05	18	<10	1	2	0.345																	
25614 Dup	10	0.05	20	<10	1	2	0.383																	
25637 Orig	72	0.03	22	<10	1	1	0.553																	
25637 Dup	75	0.03	23	<10	1	1	0.544																	
Method Blank Method	<1	<0.01	<1	<10	<1	<1	<0.001																	
Blank																								
Method Blank Method	<1	<0.01	<1	<10	<1	<1	<0.001																	
Blank																								
Method Blank Method								<0.2	<0.01	<10	8	<1	<10	<0.01	<0.5	<1	<2	<1	<0.01	<0.01	<0.01	<2	<2	0.01
Blank																								

Quality Control

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	0.001	2	0.001	10	1	10	1	0.01	1	10	1	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	33	0.038	602	0.207	87	1	23	1.71		79	192	24	632	13
GXR-1 Cert	41.0	0.0650	730	0.257	122	1.58	54.0	275		80.0	164	32.0	760	36.0
GXR-4 Meas	38	0.122	44	1.896	< 10	7	< 10	70		86	15	11	67	10
GXR-4 Cert	42.0	0.120	52.0	1.77	4.80	7.70	5.60	221		87.0	30.8	14.0	73.0	186
GXR-2 Meas	19	0.065	837	0.041	41	6	< 10	57		57	< 10	12	605	12
GXR-2 Cert	21.0	0.105	690	0.0313	49.0	6.88	1.70	160		52.0	1.90	17.0	530	269
GXR-6 Meas	23	0.032	95	0.018	< 10	22	< 10	32		177	< 10	6	120	11
GXR-6 Cert	27.0	0.0550	101	0.0160	3.50	27.6	1.70	35.0		186	1.90	14.0	118	110
OREAS 13P Meas	2380													
OREAS 13P Cert	2280													
25803 Orig														
25803 Dup														
25377 Orig														
25377 Dup														
25530 Orig														
25530 Dup														
25614 Orig														
25614 Dup														
25637 Orig														
25637 Dup														
Method Blank Method														
Blank														
Method Blank Method														
Blank														
Method Blank Method	< 1	< 0.001	< 2	< 0.001	< 10	< 1	< 10	< 1	< 0.01	< 1	< 10	< 1	< 1	< 1
Blank														



Date Submitted: 26-May-08
Invoice No.: A08-2658
Invoice Date: 10-Jun-08
Your Reference: DOSSIER #22292

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

90 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2658**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2658

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
25012	9.4	5.2	1500	45	<2	186	63	28	4.05	<10	11	<1	<10	2.35	20	74	0.94	0.03	0.57	0.57	0.005	<10	1	<10	
25013	4.6	2.2	702	39	<2	116	48	17	3.66	<10	10	<1	<10	2.03	13	66	0.67	0.02	0.60	0.53	0.006	<10	1	<10	
25014	3.2	1.6	568	41	<2	131	41	16	3.22	<10	17	<1	<10	1.88	14	84	0.72	0.06	0.57	0.50	0.004	<10	1	<10	
25015	2.5	1.6	535	46	<2	199	23	16	2.25	<10	45	<1	<10	1.19	27	101	1.06	0.12	0.46	0.39	0.003	<10	1	<10	
25016	5.1	1.9	1130	38	<2	259	15	20	2.12	<10	16	<1	<10	1.25	30	44	1.12	0.02	0.23	0.37	0.006	<10	1	<10	
25017	7.7	2.8	1820	41	<2	406	16	27	2.15	<10	22	<1	<10	1.20	60	77	1.60	0.06	0.43	0.37	0.003	<10	1	<10	
25018	1.7	1.5	562	88	<2	226	23	35	3.18	<10	24	<1	<10	1.61	32	110	1.82	0.13	1.07	0.45	0.003	<10	2	<10	
25019	2.0	1.3	1910	67	<2	1610	12	29	2.47	<10	35	<1	<10	1.18	156	124	6.70	0.28	1.16	0.26	0.028	<10	4	<10	
25020	0.7	0.7	1450	299	<2	1480	8	28	6.13	<10	23	<1	<10	2.91	50	160	3.66	0.52	3.43	0.35	0.002	<10	3	<10	
25021	4.7	1.4	3760	98	<2	966	7	38	2.35	<10	25	<1	<10	0.76	142	66	6.78	0.08	1.06	0.16	0.004	<10	2	<10	
25022	2.5	1.0	578	39	<2	132	49	13	8.44	<10	15	<1	<10	5.95	10	102	0.57	0.05	0.45	0.53	0.005	<10	1	<10	
25023	1.6	0.7	351	67	<2	126	65	10	7.75	<10	8	<1	<10	5.38	11	53	0.56	0.01	0.50	0.75	0.002	<10	1	<10	
25024	14.2	4.8	2880	62	<2	342	64	32	7.66	<10	8	<1	<10	6.15	27	59	1.05	0.01	0.52	0.57	0.003	<10	2	<10	
25025	18.7	6.6	3390	50	<2	505	71	40	6.20	<10	8	<1	<10	4.26	40	36	1.21	0.01	0.43	0.49	0.004	<10	1	<10	
25026	24.9	13.1	4050	202	<2	263	74	98	5.07	<10	8	<1	<10	3.88	34	40	2.05	0.01	1.11	0.38	0.003	<10	5	<10	
25027	4.4	2.8	824	178	<2	217	67	29	5.89	<10	7	<1	<10	4.59	21	60	1.59	0.02	1.08	0.31	0.002	<10	6	<10	
25028	20.9	8.2	4060	224	<2	241	73	77	4.84	<10	8	<1	<10	3.71	32	40	2.06	0.01	1.14	0.31	0.004	<10	5	<10	
25029	26.0	4.1	4800	174	<2	276	76	44	5.33	<10	8	<1	<10	3.71	33	32	2.03	0.02	1.11	0.33	0.002	<10	3	<10	
25010	<0.2	<0.5	10	10	<2	<1	<2	2	0.04	<10	8	<1	<10	0.04	<1	<2	0.05	0.01	0.02	0.01	0.003	<10	<1	<10	
25011	15.3	7.8	2520	107	<2	457	52	65	4.45	<10	93	<1	<10	1.88	53	168	3.38	0.44	2.38	0.34	0.005	<10	5	<10	
23471	5.0	7.0	2190	408	<2	243	79	124	2.38	<10	25	<1	<10	0.60	28	80	4.98	0.11	2.51	0.07	0.025	<10	5	10	
23472	3.5	10.5	2730	471	<2	931	68	298	3.14	<10	23	<1	<10	0.61	75	64	8.67	0.31	3.55	0.06	0.026	<10	9	11	
23473	5.4	10.3	3590	213	<2	2500	68	242	1.17	<10	10	<1	<10	0.62	562	169	13.6	0.03	0.76	0.06	0.008	<10	2	<10	
23474	2.7	4.5	2190	406	<2	976	161	265	3.05	<10	30	<1	<10	1.65	51	246	6.21	0.14	1.67	0.09	0.007	<10	4	<10	
23475	8.1	8.5	6130	526	<2	2210	197	358	3.24	<10	24	<1	<10	0.91	215	256	13.0	0.13	2.59	0.13	0.007	<10	5	<10	
23476	12.6	18.9	6090	592	<2	436	249	631	3.68	<10	52	<1	<10	0.91	42	303	7.28	0.24	2.66	0.16	0.008	<10	7	16	
23477	11.2	6.1	5720	503	<2	2920	293	264	2.30	<10	11	<1	<10	23	0.17	556	72	17.3	0.06	2.20	0.02	0.014	<10	4	<10
23478	17.2	18.5	8770	589	<2	3190	475	795	3.20	<10	7	<1	<10	0.14	274	43	16.5	0.06	3.26	0.02	0.013	<10	7	13	
23479	13.6	31.1	7560	830	<2	3310	412	1280	3.71	<10	9	<1	<10	0.20	142	146	19.8	0.02	3.55	0.02	0.011	<10	10	13	
23480	<0.2	<0.5	16	11	<2	5	<2	4	0.04	<10	8	<1	<10	0.04	<1	<2	0.06	0.01	0.02	0.01	0.003	<10	<1	<10	
25027	2.7	2.0	2340	77	<2	2140	21	48	4.66	<10	31	<1	<10	2.38	364	66	10.6	0.16	0.69	0.36	0.004	<10	3	<10	
25023	8.2	2.0	6280	134	<2	2370	19	55	4.83	<10	21	<1	<10	1.67	239	112	11.9	0.25	2.00	0.34	0.007	<10	6	<10	
25024	3.7	2.5	3790	57	<2	6740	<2	19	1.37	27	7	<1	<10	13	7.74	1640	36	30.2	0.18	0.67	0.06	0.004	<10	2	<10
25025	0.4	0.8	256	280	<2	462	<2	43	2.83	<10	18	<1	<10	0.64	51	56	3.68	0.09	2.81	0.06	0.005	<10	4	<10	
25026	0.2	0.9	145	191	<2	650	<2	51	3.55	<10	18	<1	<10	0.39	46	75	3.12	0.29	2.40	0.09	0.004	<10	3	<10	
25027	1.0	1.0	435	163	<2	67	8	66	3.34	<10	76	<1	<10	0.93	17	65	2.18	0.25	1.48	0.24	0.009	<10	4	<10	
25028	1.4	0.8	1320	192	<2	118	10	68	3.62	<10	110	<1	<10	1.00	118	74	3.26	0.43	1.73	0.28	0.014	<10	5	<10	
25029	0.3	0.9	312	316	<2	50	3	84	3.64	<10	318	<1	<10	0.21	20	62	4.54	0.87	2.67	0.11	0.020	<10	12	<10	
25030	<0.2	<0.5	6	11	<2	<1	<2	2	0.05	<10	10	<1	<10	0.04	<1	2	0.07	0.01	0.03	0.01	0.004	<10	<1	<10	
25031	<0.2	0.8	21	247	<2	18	3	84	2.81	<10	312	<1	<10	0.13	8	48	2.56	0.83	1.91	0.08	0.026	<10	8	<10	
23481	<0.2	0.5	21	233	<2	17	4	65	2.65	<10	321	<1	<10	0.13	9	47	2.59	0.65	1.95	0.06	0.026	<10	8	<10	
23482	5.3	2.1	4360	1030	<2	784	123	92	5.18	<10	7	<1	<10	1.70	124	122	13.9	0.02	4.49	0.02	0.020	<10	16	19	
23483	2.2	2.5	1830	976	<2	493	77	88	5.38	<10	6	<1	<10	2.14	54	215	11.7	0.52	4.54	0.02	0.017	<10	23	13	
23484	0.5	1.3	299	924	<2	167	13	60	4.92	<10	10	<1	<10	2.43	18	263	7.78	0.03	4.04	0.05	0.013	<10	18	<10	
23485	<0.2	0.7	198	540	<2	66	21	38	3.00	<10	15	<1	<10	2.84	22	166	3.47	0.07	2.32	0.12	0.014	<10	12	<10	
23486	<0.2	0.7	78	534	<2	67	6	31	2.60	<10	10	<1	<10	2.18	25	164	3.46	0.04	2.33	0.07	0.015	<10	10	<10	
23487	<0.2	0.6	64	372	<2	61	12	27	2.67	<10	14	<1	<10	2.26	19	124	2.32	0.05	1.66	0.16	0.014	<10	8	<10	
23488	<0.2	0.5	45	369	<2	48	13	27	2.42	<10	10	<1	<10	1.68	17	115	2.26	0.03	1.69	0.09	0.013	<10	8	<10	
23489	<0.2	0.7	57	559	<2	81	22	58	3.31	<10	8	<1	<10	2.67	28	161	3.95	0.02	2.70	0.06	0.012	<10	7	<10	
23490	0.7	0.6	1560	309	<2	1680	2	25	5.78	<10	18	<1	<10	2.96	59	141	3.42	0.03	3.33	0.31	0.003	<10	3	<10	
25032	<0.2	0.5	7	260	<2	36	5	71	3.03	<10	187	<1	<10	0.51	8	73	2.42	0.71	2.05	0.17	0.022	<10	8	<10	
25033	<0.2	<0.5	4	152	<2	36	6	67	2.26	<10	166	<1	<10	0.43	7	66	1.87	0.58	1.70	0.13	0.026	<10	6	<10	

Activation Laboratories Ltd. Report: A08-2658

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
25034	< 0.2	< 0.5	26	224	< 2	34	6	78	2.93	< 10	233	< 1	< 10	0.30	7	100	2.42	0.60	1.65	0.11	0.026	< 10	7	< 10
25035	0.3	0.7	335	187	< 2	64	9	82	3.64	< 10	155	< 1	< 10	1.35	15	114	3.80	0.65	1.80	0.32	0.022	< 10	6	< 10
25036	0.3	0.6	241	109	< 2	61	13	55	4.80	< 10	86	< 1	< 10	2.82	10	80	2.13	0.38	0.95	0.38	0.020	< 10	2	< 10
25037	0.8	1.0	742	117	< 2	323	8	101	3.23	< 10	86	< 1	< 10	1.14	39	108	3.85	0.55	1.54	0.31	0.022	< 10	5	< 10
25038	1.4	1.3	1720	80	< 2	1250	12	82	4.38	< 10	36	< 1	< 10	2.25	115	115	6.17	0.35	1.26	0.43	0.010	< 10	3	< 10
25039	1.8	1.8	1970	221	< 2	1100	5	176	5.17	< 10	38	< 1	< 10	1.84	159	86	5.55	0.75	3.21	0.17	0.008	< 10	8	< 10
25040	0.9	0.6	1410	284	< 2	1420	4	25	6.07	< 10	22	< 1	< 10	2.80	57	152	3.50	0.02	3.24	0.35	0.002	< 10	3	< 10
25041	0.8	1.1	823	151	< 2	639	6	91	4.80	< 10	63	< 1	< 10	1.52	54	161	5.13	0.50	2.60	0.19	0.006	< 10	5	< 10
23491	< 0.2	0.7	82	427	< 2	79	12	31	2.64	< 10	15	< 1	< 10	1.69	22	151	2.84	0.06	2.16	0.09	0.013	< 10	9	< 10
23492	< 0.2	0.7	69	508	< 2	67	27	45	3.05	< 10	11	< 1	< 10	2.37	22	164	3.27	0.03	2.20	0.09	0.013	< 10	9	< 10
23493	0.2	0.9	93	385	< 2	45	89	73	2.35	< 10	13	< 1	< 10	1.84	13	113	2.42	0.05	1.43	0.08	0.013	< 10	8	< 10
23494	17.0	15.8	> 10000	379	< 2	1340	227	640	2.30	< 10	13	< 1	< 10	0.85	252	62	11.5	0.05	1.10	0.09	0.016	< 10	3	< 10
23495	11.8	17.1	8920	402	< 2	2030	182	699	2.69	< 10	17	< 1	< 10	0.82	252	61	14.8	0.08	1.38	0.10	0.020	< 10	4	12
23496	8.3	16.7	7320	120	< 2	8480	49	506	0.87	< 10	9	< 1	< 10	0.21	350	16	35.6	0.03	0.39	0.04	0.006	< 10	< 1	14
23497	18.4	20.5	7870	606	< 2	768	556	825	3.73	< 10	22	< 1	21	0.70	70	147	11.3	0.09	2.60	0.11	0.007	< 10	8	16
23498	12.7	13.0	> 10000	83	< 2	90	60	357	0.27	< 10	6	< 1	< 10	0.29	14	86	2.09	< 0.01	0.21	0.01	0.007	< 10	< 1	> 10
23499	6.0	14.8	4760	577	< 2	214	352	587	4.22	< 10	12	< 1	< 10	1.84	24	175	7.46	0.04	1.81	0.26	0.065	< 10	6	12
23500	1.0	2.8	8080	266	< 2	> 10000	3	42	0.60	< 10	7	< 1	< 10	0.37	677	31	31.4	0.11	0.16	0.06	0.046	< 10	3	< 10
25042	0.4	1.0	286	268	< 2	153	36	89	3.29	< 10	52	< 1	< 10	0.35	24	87	4.13	0.18	2.82	0.08	0.006	< 10	5	< 10
25043	0.5	0.6	217	239	< 2	61	15	83	3.35	< 10	178	< 1	< 10	0.32	13	84	3.65	0.50	2.66	0.12	0.008	< 10	6	< 10
25044	0.6	0.7	147	219	< 2	57	10	80	3.20	< 10	182	< 1	< 10	0.28	13	54	3.51	0.61	2.53	0.11	0.009	< 10	6	< 10
25045	0.7	1.0	314	148	< 2	55	10	66	3.69	< 10	126	< 1	< 10	0.86	13	75	2.89	0.52	1.83	0.27	0.013	< 10	5	< 10
25046	0.3	1.1	217	264	< 2	65	14	80	4.46	< 10	182	< 1	< 10	1.26	16	52	4.43	0.87	2.81	0.24	0.014	< 10	8	< 10
25047	1.1	1.4	1090	140	< 2	627	27	76	6.41	< 10	55	< 1	< 10	3.45	48	70	6.61	0.89	2.08	0.32	0.017	< 10	7	> 10
25048	1.4	1.2	776	286	< 2	170	25	80	5.39	< 10	132	< 1	< 10	1.96	23	93	5.56	0.84	2.79	0.31	0.017	< 10	9	< 10
25049	3.4	2.0	1030	185	< 2	296	31	83	5.25	< 10	46	< 1	< 10	2.84	48	73	5.35	0.57	1.66	0.23	0.024	< 10	5	< 10
25050	0.9	2.7	8490	273	2	> 10000	7	42	0.49	< 10	4	< 1	< 10	0.37	576	31	31.4	0.11	0.18	0.08	0.048	< 10	4	< 10
25051	1.9	1.2	1040	189	< 2	202	26	68	5.02	< 10	79	< 1	< 10	3.05	42	49	4.49	0.41	1.41	0.18	0.027	< 10	5	< 10
25101	1.7	1.5	926	175	< 2	105	14	79	2.93	< 10	69	< 1	< 10	1.83	31	40	2.86	0.22	1.01	0.08	0.021	< 10	3	> 10
25102	0.8	1.3	264	353	< 2	81	16	87	2.61	< 10	33	< 1	17	1.75	31	108	2.73	0.11	1.45	0.05	0.023	< 10	4	< 10
25103	1.2	1.4	454	443	< 2	97	18	89	2.49	< 10	14	< 1	14	1.69	35	104	2.91	0.04	1.38	0.06	0.025	< 10	5	< 10
25104	0.4	1.0	234	439	< 2	70	10	63	3.69	< 10	87	< 1	< 10	1.38	29	138	4.21	0.70	2.88	0.04	0.028	< 10	13	< 10
25105	< 0.2	0.5	4	282	< 2	6	5	34	3.26	< 10	118	< 1	< 10	1.01	5	42	2.63	0.56	1.93	0.11	0.031	< 10	6	< 10
25106	< 0.2	0.6	23	252	< 2	9	7	35	4.12	< 10	154	< 1	< 10	1.34	9	64	2.91	1.01	1.79	0.18	0.038	< 10	5	< 10
25107	< 0.2	0.6	66	233	< 2	12	4	35	3.39	< 10	145	< 1	< 10	0.83	10	78	2.86	0.52	1.76	0.11	0.025	< 10	5	< 10
25108	< 0.2	0.5	198	212	< 2	7	5	33	3.81	< 10	159	< 1	< 10	1.13	8	79	2.71	0.84	1.60	0.14	0.030	< 10	4	< 10
25109	< 0.2	0.7	36	362	< 2	24	6	44	3.60	< 10	189	< 1	< 10	1.05	14	75	3.55	0.86	2.17	0.10	0.030	< 10	8	< 10
25052	1.0	1.3	568	249	< 2	125	15	89	5.35	< 10	155	< 1	< 10	2.60	20	40	4.90	0.82	2.14	0.19	0.014	< 10	6	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25012	48	0.01	29	< 10	< 1	< 1	0.332
25013	43	< 0.01	26	< 10	< 1	< 1	0.163
25014	40	0.01	44	< 10	< 1	< 1	0.164
25015	29	0.05	64	< 10	< 1	< 1	0.367
25016	32	0.03	23	< 10	< 1	< 1	0.559
25017	37	0.03	33	< 10	< 1	< 1	0.871
25018	44	0.04	32	< 10	< 1	< 1	0.454
25019	25	0.05	104	< 10	1	3	3.068
25020	69	0.02	34	< 10	< 1	1	0.490
25021	18	0.02	49	< 10	1	3	2.502
25022	93	< 0.01	12	< 10	< 1	< 1	0.156
25023	105	< 0.01	7	< 10	< 1	< 1	0.113
25024	95	< 0.01	10	< 10	< 1	< 1	0.474
25025	80	< 0.01	11	< 10	< 1	< 1	0.810
25026	70	0.01	20	< 10	< 1	< 1	0.673
25027	76	0.01	28	< 10	< 1	< 1	0.267
25028	70	0.01	22	< 10	< 1	< 1	0.694
25029	68	< 0.01	16	< 10	< 1	< 1	0.686
25010	1	< 0.01	< 1	< 10	< 1	4	0.017
25011	39	0.07	156	< 10	< 1	1	0.932
23471	8	0.11	35	< 10	20	5	1.226
23472	7	0.20	69	< 10	17	4	2.434
23473	9	0.03	14	< 10	2	5	7.536
23474	17	0.03	35	< 10	3	3	2.248
23475	14	0.08	89	< 10	2	4	4.536
23476	16	0.10	105	< 10	2	2	1.223
23477	4	0.08	38	< 10	8	6	6.386
23478	3	0.08	70	< 10	4	5	5.576
23479	5	0.08	110	< 10	4	7	4.969
23480	1	< 0.01	< 1	< 10	< 1	4	0.026
25022	39	0.05	87	< 10	1	4	4.378
25023	33	0.08	176	< 10	1	4	4.349
25024	8	0.03	54	< 10	2	8	8.666
25025	15	< 0.01	21	< 10	3	2	0.853
25026	17	0.01	20	< 10	2	2	0.545
25027	22	0.05	48	< 10	2	2	0.155
25028	21	0.07	47	< 10	3	3	0.789
25029	10	0.13	42	< 10	5	6	0.245
25030	1	< 0.01	< 1	< 10	< 1	4	0.019
25031	8	0.10	26	< 10	5	6	0.019
23481	6	0.11	26	< 10	5	6	0.015
23482	11	0.13	143	< 10	9	5	3.150
23483	13	0.14	152	< 10	10	5	1.976
23484	10	0.09	142	< 10	7	3	0.155
23485	18	0.08	86	< 10	4	2	0.069
23486	10	0.05	62	< 10	4	2	0.099
23487	21	0.05	60	< 10	3	1	0.081
23488	15	0.04	46	< 10	2	1	0.043
23489	15	0.05	76	< 10	3	2	0.120
23490	63	0.02	33	< 10	< 1	1	0.476
25032	12	0.11	23	< 10	5	9	0.011
25033	8	0.10	30	< 10	4	10	0.010

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25034	7	0.11	25	< 10	5	12	0.011
25035	24	0.11	38	< 10	4	8	0.028
25036	31	0.07	22	< 10	5	5	0.408
25037	18	0.06	41	< 10	3	4	1.028
25038	23	0.06	77	< 10	2	3	2.510
25039	20	0.06	117	< 10	1	3	2.426
25040	65	0.02	33	< 10	< 1	1	0.474
25041	25	0.05	97	< 10	1	2	1.304
23491	12	0.05	64	< 10	3	1	0.120
23492	9	0.06	73	< 10	3	2	0.061
23493	13	0.05	56	< 10	3	1	0.038
23494	22	0.03	72	< 10	2	4	4.751
23495	24	0.04	67	< 10	3	5	5.302
23496	8	0.01	47	< 10	1	9	3.942
23497	28	0.05	137	< 10	4	3	2.020
23498	1	< 0.01	11	< 10	< 1	< 1	1.207
23499	46	0.07	174	< 10	7	2	0.872
23600	14	0.08	60	< 10	16	16	8.966
25042	12	0.03	44	< 10	3	1	0.368
25043	11	0.08	32	< 10	3	2	0.062
25044	10	0.06	33	< 10	2	2	0.072
25045	20	0.08	45	< 10	2	2	0.192
25046	23	0.11	62	< 10	4	2	0.242
25047	39	0.11	82	< 10	2	2	1.962
25048	32	0.14	95	< 10	5	2	0.741
25049	35	0.11	87	< 10	4	2	1.374
25050	14	0.09	61	< 10	16	16	9.027
25051	31	0.10	61	< 10	3	2	1.030
25101	18	0.07	24	< 10	3	1	0.911
25102	14	0.10	57	16	4	1	0.297
25103	15	0.08	69	< 10	2	1	0.430
25104	13	0.20	102	< 10	10	4	0.071
25105	18	0.13	22	< 10	11	4	0.011
25106	25	0.15	29	< 10	5	5	0.014
25107	17	0.13	16	< 10	6	6	0.019
25108	23	0.13	17	< 10	5	6	0.030
25109	18	0.15	37	< 10	12	5	0.016
25052	32	0.14	49	< 10	3	2	0.626

Activation Laboratories Ltd. Report: A08-2658

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.1	3.3	1130	728	14	33	898	838	0.35	338	368	<1	1360	0.78	8	6	23.2	0.02	0.13	0.08	0.039	74	1	29
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.1	1.0	604.0	135	310	39	38	53	2.82	93	28	1	18	0.95	14	53	3.14	1.31	1.61	0.13	0.112	<10	7	<10
GXR-4 Cert	4.00	0.860	602.0	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.9	4.8	84	1060	<2	18	778	569	3.94	12	1090	1	<10	0.84	10	27	2.12	0.96	0.56	0.27	0.056	28	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	1.3	64	940	<2	23	84	112	7.25	193	898	<1	<10	0.17	13	76	5.44	0.86	0.39	0.15	0.028	<10	21	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.9	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2610			2280											5.64							
OREAS 13P Cert			2500			2280											7.58							
25004 Ong	14.3	5.0	2860	59	<2	345	66	32	7.53	<10	7	<1	<10	5.14	27	58	1.04	0.01	0.52	0.57	0.003	<10	2	<10
25004 Dup	14.1	4.6	2900	65	<2	340	63	31	7.65	<10	8	<1	<10	5.15	25	59	1.06	0.01	0.52	0.56	0.003	<10	2	<10
23477 Ong	11.2	6.2	5090	506	<2	2810	298	257	2.31	<10	11	<1	24	0.17	660	70	16.5	0.06	2.21	0.02	0.014	<10	4	11
23477 Dup	11.1	6.0	5190	500	<2	3020	288	281	2.29	<10	10	<1	22	0.17	652	73	18.2	0.08	2.19	0.02	0.014	<10	4	<10
25031 Ong	<0.2	0.6	21	232	<2	18	3	64	2.58	<10	313	<1	<10	0.13	8	44	2.54	0.63	1.85	0.08	0.026	<10	8	<10
25031 Dup	<0.2	0.6	21	252	<2	18	3	53	2.64	<10	312	<1	<10	0.13	9	52	2.56	0.63	1.82	0.08	0.025	<10	8	<10
25035 Ong	0.3	0.8	324	188	<2	63	9	82	3.61	<10	153	<1	<10	1.33	16	112	3.76	0.65	1.78	0.31	0.022	<10	6	<10
25035 Dup	0.3	0.7	346	185	<2	64	10	82	4.06	<10	158	<1	<10	1.36	15	115	3.83	0.66	1.83	0.33	0.023	<10	7	<10
25048 Ong	1.4	1.4	788	287	<2	170	25	81	5.45	<10	137	<1	<10	1.98	23	94	5.63	0.84	2.81	0.31	0.017	<10	9	<10
25048 Dup	1.5	1.1	765	284	<2	170	25	79	5.34	<10	127	<1	<10	1.94	23	92	5.53	0.83	2.77	0.30	0.017	<10	9	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	177		74	139	23	14	0.196
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	69		81	13	11	10	1.748
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	87		51	< 10	11	10	0.037
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	30		161	< 10	6	7	0.014
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
25004 Orig	95	< 0.01	10	< 10	< 1	< 1	0.473
25004 Dup	95	< 0.01	10	< 10	< 1	< 1	0.474
23477 Orig	4	0.06	38	< 10	6	6	5.752
23477 Dup	4	0.06	38	< 10	6	7	7.020
25031 Orig	8	0.10	26	< 10	5	6	0.020
25031 Dup	6	0.10	26	< 10	5	6	0.018
25035 Orig	24	0.11	37	< 10	4	8	0.528
25035 Dup	24	0.12	38	< 10	4	8	0.528
25048 Orig	32	0.14	96	< 10	5	2	0.739
25048 Dup	32	0.14	94	< 10	5	2	0.744
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 26-May-08

Invoice No.: A08-2656 (i)

Invoice Date: 11-Jun-08

Your Reference: DOSSIER #22293

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

90 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2656 (i)**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2656 (i)

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
30001	6.0	24.4	4130	675	<2	203	548	1050	4.66	<10	24	<1	<10	2.20	29	81	6.85	0.09	2.35	0.29	0.080	<10	8	12
30002	3.2	5.5	2010	443	<2	2800	198	248	2.47	<10	7	<1	<10	0.68	420	42	15.6	0.10	1.70	0.05	0.032	<10	6	11
30003	1.0	1.1	1040	474	6	137	41	130	2.84	<10	88	<1	<10	0.47	23	81	5.28	0.24	2.11	0.05	0.038	<10	7	10
30004	7.2	22.5	5190	560	<2	1620	133	775	2.66	<10	6	<1	<10	1.17	639	95	20.7	0.17	1.61	0.07	0.026	<10	6	15
30005	4.9	18.9	5060	651	<2	369	97	616	3.09	<10	14	<1	<10	1.09	254	75	12.7	0.06	2.12	0.04	0.031	<10	7	20
30006	7.2	8.8	4430	523	6	139	119	301	2.45	<10	24	<1	<10	1.61	43	94	5.63	0.09	2.22	0.07	0.067	<10	9	19
30007	5.9	6.4	3320	673	<2	177	260	263	3.10	<10	36	<1	<10	1.86	38	73	7.03	0.15	2.74	0.06	0.093	<10	14	13
30008	36.2	41.9	>10000	503	<2	3100	268	1480	2.47	<10	9	<1	<10	0.66	71	63	18.7	0.14	1.66	0.03	0.028	<10	5	32
30009	1.7	5.0	1480	504	6	80	85	244	2.93	<10	96	<1	<10	0.68	15	87	4.81	0.34	2.40	0.06	0.034	<10	6	14
30010	<0.2	<0.5	13	16	<2	<1	<2	3	0.07	<10	9	<1	<10	0.04	<1	3	0.06	0.01	0.03	0.01	0.004	<10	<1	<10
30011	10.9	9.0	7370	832	<2	309	286	417	2.77	<10	21	<1	<10	2.11	81	99	8.38	0.08	1.84	0.12	0.054	<10	10	17
30012	58.1	26.6	>10000	535	<2	3290	182	1120	2.42	<10	9	<1	<10	0.76	245	38	27.3	0.07	1.34	0.04	0.030	<10	3	25
30013	69.1	26.1	>10000	301	<2	4080	672	1010	1.41	<10	7	<1	25	0.55	241	40	27.1	0.04	0.68	0.04	0.038	<10	3	56
30014	40.3	32.8	>10000	625	<2	307	2380	1440	2.76	<10	22	<1	45	1.96	39	174	6.64	0.09	1.45	0.16	0.035	<10	8	47
30015	35.8	25.2	>10000	554	<2	1750	1450	1010	2.34	<10	12	<1	84	1.46	140	126	14.1	0.04	1.40	0.09	0.040	<10	6	61
30016	97.6	38.1	>10000	448	<2	402	3700	1380	2.31	<10	30	<1	194	1.01	47	117	7.17	0.23	1.47	0.16	0.022	<10	6	56
30017	36.8	20.7	>10000	203	<2	4990	214	1020	1.17	<10	4	<1	<10	0.22	1260	67	35.4	0.14	0.73	0.04	0.020	12	3	22
30018	21.0	34.2	>10000	437	<2	832	680	1130	2.91	<10	13	<1	17	0.88	110	120	12.0	0.17	2.02	0.11	0.041	<10	7	49
30019	42.9	60.1	>10000	491	<2	286	1980	1320	2.80	<10	16	<1	41	1.57	39	188	6.51	0.05	1.65	0.19	0.038	<10	8	66
30020	0.6	<0.5	1610	342	<2	1710	<2	27	6.33	<10	22	<1	<10	3.19	55	162	3.66	0.04	3.56	0.35	0.003	<10	4	<10
25110	<0.2	<0.5	15	12	<2	12	<2	2	0.11	<10	9	<1	<10	0.06	1	4	0.08	0.01	0.04	0.02	0.004	<10	<1	<10
25111	0.3	<0.5	156	340	<2	31	18	44	4.55	<10	246	<1	<10	1.69	19	109	3.31	1.07	1.76	0.18	0.031	<10	9	<10
25112	0.5	<0.5	84	303	<2	12	14	45	4.68	<10	279	<1	<10	1.38	13	97	3.65	1.09	1.60	0.20	0.035	<10	8	<10
25113	<0.2	<0.5	28	314	2	12	10	41	4.23	<10	310	<1	<10	0.92	10	106	3.56	1.02	1.94	0.12	0.032	<10	7	<10
25114	<0.2	<0.5	23	268	<2	14	9	42	4.43	<10	335	<1	<10	0.37	13	113	3.75	1.11	1.95	0.17	0.029	<10	8	<10
25115	21.6	2.1	3140	493	<2	84	25	112	4.26	<10	194	<1	117	0.97	34	175	5.86	1.17	3.07	0.06	0.028	<10	17	<10
25116	1.1	<0.5	365	501	<2	51	4	57	3.32	<10	108	<1	<10	1.37	25	132	4.60	0.57	2.29	0.05	0.031	<10	10	<10
25117	2.5	<0.5	478	409	<2	25	9	57	3.66	<10	213	<1	11	0.77	21	112	4.63	1.03	2.57	0.06	0.024	<10	11	<10
25118	0.3	0.8	141	550	<2	66	8	103	3.75	<10	27	<1	<10	2.54	30	179	5.10	0.12	2.42	0.12	0.125	<10	12	<10
25119	0.2	<0.5	149	285	<2	31	9	46	3.46	<10	36	<1	<10	2.56	19	77	3.26	0.13	1.12	0.32	0.068	<10	7	<10
30021	32.4	43.1	7290	426	<2	200	1190	748	2.42	<10	17	<1	29	1.78	31	134	5.29	0.04	1.39	0.20	0.071	<10	7	37
30022	92.7	80.5	>10000	402	<2	342	3980	781	2.28	<10	14	<1	147	1.68	38	152	7.21	0.03	1.51	0.17	0.042	<10	8	62
30023	>100	47.6	8160	322	<2	265	>5000	431	2.04	<10	11	<1	406	1.55	41	124	6.19	0.02	1.18	0.16	0.071	<10	6	45
30024	68.6	50.6	>10000	318	<2	313	1110	524	2.66	<10	27	<1	38	1.80	67	138	6.34	0.14	1.48	0.23	0.065	<10	8	45
30025	4.7	2.9	775	944	<2	46	103	97	3.18	<10	116	<1	<10	0.40	16	83	6.36	0.71	2.60	0.05	0.052	<10	9	<10
30026	2.6	1.5	1060	584	<2	126	32	88	1.91	<10	16	<1	<10	0.60	24	64	11.2	0.22	1.72	0.03	0.039	<10	3	<10
30027	<0.2	<0.5	39	797	<2	8	4	77	3.97	<10	164	<1	<10	0.76	17	105	6.32	0.62	3.51	0.05	0.087	<10	11	<10
30028	<0.2	<0.5	29	990	<2	4	6	133	3.92	<10	109	<1	<10	0.91	17	85	5.45	0.50	3.49	0.04	0.089	<10	9	<10
30029	0.2	<0.5	46	1040	<2	10	16	133	3.75	<10	78	<1	<10	0.66	24	160	5.61	0.40	3.39	0.03	0.098	<10	9	<10
30030	<0.2	<0.5	4	16	<2	<1	<2	2	0.08	<10	10	<1	<10	0.04	<1	3	0.07	0.01	0.03	0.02	0.005	<10	<1	<10
25120	0.6	<0.5	1460	338	<2	1550	4	26	6.97	<10	28	<1	<10	3.23	55	167	3.89	0.03	3.73	0.39	0.003	<10	4	<10
25121	0.3	<0.5	81	330	<2	31	10	40	3.97	<10	109	<1	<10	1.99	21	138	4.89	0.64	1.82	0.34	0.107	<10	10	<10
25122	<0.2	<0.5	43	357	<2	19	8	34	3.45	<10	182	<1	<10	0.93	17	228	4.56	0.75	2.02	0.17	0.051	<10	9	<10
25123	<0.2	<0.5	31	253	<2	11	4	27	3.46	<10	237	<1	<10	0.56	13	155	3.39	0.86	1.60	0.15	0.027	<10	6	<10
25124	<0.2	<0.5	27	436	<2	24	7	40	4.61	<10	206	<1	<10	1.73	23	110	6.40	1.39	2.65	0.18	0.078	<10	16	<10
25125	<0.2	<0.5	86	267	<2	36	12	40	5.24	<10	104	<1	<10	2.62	20	145	4.57	1.09	2.11	0.48	0.096	<10	13	<10
25126	<0.2	<0.5	166	473	<2	84	10	41	4.62	<10	60	<1	<10	4.01	29	186	3.84	0.11	1.76	0.35	0.032	<10	12	<10
25127	<0.2	<0.5	99	302	<2	50	5	50	4.27	<10	434	<1	<10	1.64	27	164	5.86	1.39	2.30	0.38	0.096	<10	18	<10
25128	<0.2	<0.5	5	174	<2	28	3	40	3.04	<10	309	<1	<10	1.21	19	96	4.15	0.98	1.68	0.36	0.110	<10	10	<10
25129	<0.2	<0.5	22	186	<2	30	5	68	2.49	<10	294	<1	<10	0.56	22	123	4.87	1.23	2.03	0.19	0.102	<10	11	<10
25130	<0.2	<0.5	4	12	<2	<1	<2	2	0.06	<10	10	<1	<10	0.04	<1	3	0.08	0.02	0.03	0.01	0.005	<10	<1	<10
25131	<0.2	<0.5	64	121	<2	34	4	41	1.65	<10	137	<1	<10	0.70	18	160	4.28	0.49	1.05	0.21	0.099	<10	7	<10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	<10	1	1	<10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
25132	< 0.2	< 0.5	35	248	< 2	26	7	71	3.38	< 10	196	< 1	< 10	1.38	28	82	4.58	0.89	1.63	0.33	0.094	< 10	9	< 10
25133	< 0.2	< 0.5	18	178	< 2	29	7	51	4.19	< 10	137	< 1	< 10	1.88	20	100	4.82	0.97	1.83	0.39	0.105	< 10	10	< 10
25134	< 0.2	< 0.5	17	286	< 2	38	10	89	6.60	< 10	169	< 1	< 10	2.91	31	125	8.00	1.45	2.40	0.54	0.101	< 10	13	< 10
25135	< 0.2	< 0.5	22	401	< 2	38	42	46	5.67	< 10	151	< 1	< 10	2.56	40	193	5.19	1.28	2.18	0.42	0.090	< 10	14	< 10
25136	0.3	1.1	168	467	< 2	27	58	81	3.83	< 10	208	< 1	< 10	0.82	17	163	3.76	1.05	1.92	0.18	0.029	< 10	7	< 10
25137	1.8	1.4	1560	453	< 2	71	125	202	2.37	< 10	106	< 1	< 10	0.57	13	113	4.33	0.59	1.50	0.07	0.028	< 10	5	13
25138	30.3	17.6	> 10000	279	< 2	4150	111	1380	1.26	< 10	6	< 1	< 10	0.28	558	76	26.9	0.25	0.73	0.02	0.019	< 10	3	15
25139	9.9	11.1	8460	349	< 2	3940	171	574	2.07	< 10	7	< 1	21	0.54	281	48	24.8	0.49	1.40	0.03	0.026	< 10	6	14
30031	0.6	0.5	471	822	< 2	177	6	155	3.09	< 10	98	< 1	< 10	0.39	22	153	5.04	0.53	2.63	0.04	0.044	< 10	7	< 10
30032	0.4	< 0.5	497	574	3	67	11	169	2.74	< 10	96	< 1	< 10	0.28	20	216	5.52	0.66	1.84	0.06	0.019	< 10	4	< 10
30033	1.3	2.2	1760	520	< 2	22	8	519	2.19	< 10	89	< 1	< 10	0.31	28	134	4.85	0.43	1.48	0.04	0.019	< 10	3	< 10
30034	< 0.2	< 0.5	171	525	< 2	12	9	169	2.23	< 10	93	< 1	< 10	0.37	9	174	2.69	0.52	1.45	0.06	0.027	< 10	3	< 10
30035	0.2	< 0.5	258	396	< 2	39	10	77	2.64	11	103	< 1	< 10	0.58	10	172	2.83	0.43	1.48	0.09	0.011	< 10	2	< 10
28379	< 0.2	< 0.5	128	207	< 2	65	4	15	4.88	< 10	85	< 1	< 10	3.28	18	283	2.00	0.29	1.78	0.54	0.010	< 10	5	< 10
28380	< 0.2	< 0.5	4	11	< 2	< 1	< 2	1	0.06	< 10	11	< 1	< 10	0.06	< 1	4	0.06	0.01	0.03	0.02	0.004	< 10	< 1	< 10
28381	< 0.2	< 0.5	226	321	< 2	39	6	16	4.42	< 10	37	< 1	< 10	3.90	14	162	2.13	0.03	1.45	0.48	0.015	< 10	9	< 10
28382	4.0	1.1	3160	149	< 2	409	< 2	38	2.59	< 10	21	< 1	< 10	1.80	48	131	2.54	0.11	1.73	0.17	0.015	< 10	6	< 10
28383	6.4	2.0	4300	134	< 2	492	4	48	4.85	< 10	44	< 1	< 10	2.73	55	142	3.24	0.25	2.42	0.24	0.013	< 10	4	< 10
28384	< 0.2	< 0.5	242	186	< 2	57	3	34	3.75	< 10	88	< 1	< 10	0.87	16	195	2.42	0.35	2.14	0.22	0.009	< 10	5	< 10
28385	1.0	0.9	1350	145	< 2	74	< 2	49	2.62	< 10	111	1	< 10	0.33	27	116	3.25	0.56	1.91	0.15	0.013	< 10	5	< 10
28386	< 0.2	< 0.5	316	233	< 2	93	6	40	6.93	< 10	90	< 1	< 10	4.11	20	193	3.36	0.34	1.96	0.38	0.020	< 10	7	< 10
28387	0.5	< 0.5	340	181	< 2	300	18	11	6.91	< 10	14	< 1	< 10	5.04	26	118	1.85	0.03	0.78	0.60	0.009	< 10	4	< 10
28388	0.7	< 0.5	462	92	< 2	320	21	11	6.00	< 10	12	< 1	< 10	4.81	28	104	1.69	0.02	0.64	0.62	0.006	< 10	4	< 10
28389	1.0	< 0.5	253	116	< 2	134	29	15	7.02	< 10	16	< 1	< 10	5.37	16	117	1.26	0.05	0.91	0.58	0.007	< 10	4	< 10
28390	0.6	< 0.5	1640	345	< 2	1750	< 2	27	6.33	< 10	24	< 1	< 10	3.24	55	160	3.75	0.04	3.65	0.35	0.003	< 10	4	< 10
28391	1.5	0.7	1220	158	< 2	1260	33	29	6.83	< 10	34	< 1	< 10	4.93	68	167	5.67	0.07	1.07	0.64	0.009	< 10	5	< 10
28392	1.9	0.8	1980	155	< 2	1250	36	37	7.02	13	55	< 1	< 10	4.92	75	217	5.90	0.17	1.21	0.62	0.009	< 10	5	< 10
28393	1.4	< 0.5	1340	150	< 2	765	40	23	6.65	< 10	27	< 1	< 10	4.92	65	179	4.06	0.06	0.98	0.58	0.008	< 10	5	< 10
25140	0.6	< 0.5	1450	330	< 2	1650	6	25	6.45	< 10	27	< 1	< 10	3.15	56	163	3.84	0.03	3.65	0.38	0.003	< 10	4	< 10
25141	2.2	1.7	2050	399	< 2	367	47	577	2.31	< 10	73	2	< 10	0.42	30	157	5.53	0.43	1.67	0.05	0.023	< 10	4	< 10
25142	17.4	8.2	> 10000	160	< 2	8660	89	911	0.71	< 10	6	< 1	< 10	0.09	472	91	43.0	0.16	0.63	0.02	0.009	12	2	< 10
25143	0.5	2.7	482	738	< 2	182	38	581	3.88	< 10	181	< 1	< 10	0.82	33	116	6.02	1.02	2.38	0.09	0.081	< 10	9	< 10
25144	< 0.2	< 0.5	30	522	< 2	11	4	118	3.75	< 10	154	< 1	< 10	0.85	15	65	4.98	0.88	2.38	0.07	0.080	< 10	8	< 10
25145	< 0.2	< 0.5	114	659	< 2	26	7	90	4.77	< 10	371	< 1	< 10	1.56	18	116	5.21	1.38	2.11	0.28	0.076	< 10	11	< 10
25146	< 0.2	< 0.5	21	485	< 2	23	7	85	3.77	13	202	< 1	< 10	1.48	15	140	4.02	0.94	2.27	0.07	0.024	< 10	10	< 10
25147	< 0.2	< 0.5	7	272	< 2	12	4	31	2.76	27	89	< 1	< 10	0.60	5	226	2.14	0.69	1.53	0.12	0.007	< 10	2	< 10
25148	< 0.2	< 0.5	22	379	< 2	17	5	42	3.95	13	131	< 1	< 10	0.78	10	146	3.20	0.85	2.00	0.05	0.009	< 10	6	< 10
25149	< 0.2	< 0.5	6	278	< 2	8	5	40	2.75	59	167	< 1	< 10	0.22	6	129	2.62	0.76	1.80	0.07	0.005	< 10	3	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30001	46	0.11	120	10	10	3	0.797
30002	9	0.10	80	< 10	9	9	8.188
30003	12	0.13	88	< 10	20	9	0.401
30004	13	0.11	87	< 10	9	9	9.475
30005	8	0.13	46	< 10	14	8	4.248
30006	9	0.15	68	< 10	20	5	1.083
30007	11	0.18	111	< 10	17	4	0.954
30008	9	0.07	62	< 10	10	10	7.900
30009	11	0.10	41	< 10	19	6	0.295
30010	2	< 0.01	< 1	< 10	1	5	0.019
30011	28	0.13	171	< 10	8	4	1.864
30012	13	0.05	91	10	3	8	7.356
30013	9	0.08	131	11	2	8	8.871
30014	23	0.10	122	< 10	4	3	1.889
30015	16	0.10	125	24	3	5	5.373
30016	18	0.11	114	< 10	3	3	2.223
30017	8	0.05	116	11	1	9	6.048
30018	20	0.11	163	11	5	4	4.167
30019	22	0.11	150	< 10	4	3	2.072
30020	71	0.02	37	< 10	< 1	1	0.496
25110	3	< 0.01	< 1	< 10	1	4	0.021
25111	21	0.17	42	< 10	6	8	0.050
25112	25	0.17	31	< 10	6	10	0.033
25113	18	0.18	26	< 10	5	7	0.019
25114	20	0.15	23	< 10	5	10	0.016
25115	14	0.26	121	< 10	9	6	0.446
25116	18	0.18	80	< 10	9	5	0.178
25117	16	0.21	66	< 10	11	7	0.096
25118	37	0.14	115	< 10	12	3	0.103
25119	67	0.09	63	< 10	9	3	0.189
30021	26	0.10	116	< 10	9	3	1.394
30022	18	0.12	159	< 10	5	3	2.051
30023	19	0.10	153	< 10	8	3	1.667
30024	31	0.10	124	< 10	7	3	2.182
30025	8	0.15	96	< 10	12	12	0.873
30026	6	0.05	24	12	8	11	3.857
30027	13	0.15	75	< 10	17	8	0.138
30028	9	0.15	66	< 10	19	9	0.161
30029	6	0.12	69	< 10	18	10	0.172
30030	2	< 0.01	< 1	< 10	1	5	0.019
25120	79	0.02	39	< 10	< 1	1	0.909
25121	36	0.20	104	< 10	15	7	0.167
25122	13	0.21	54	< 10	14	16	0.080
25123	16	0.15	24	< 10	11	14	0.011
25124	19	0.28	102	< 10	13	6	0.061
25125	35	0.18	123	< 10	11	4	0.108
25126	73	0.11	99	< 10	7	2	0.768
25127	19	0.21	145	< 10	11	4	0.184
25128	14	0.15	125	< 10	14	4	0.039
25129	7	0.20	126	< 10	9	6	0.115
25130	2	< 0.01	1	< 10	1	4	0.019
25131	10	0.14	132	< 10	10	7	0.108

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25132	16	0.16	127	< 10	8	5	0.150
25133	23	0.17	127	< 10	8	5	0.156
25134	35	0.18	148	< 10	7	4	0.164
25135	34	0.18	114	< 10	7	5	0.129
25136	11	0.16	24	< 10	12	18	0.043
25137	5	0.16	15	< 10	17	22	0.366
25138	4	0.08	94	15	6	16	9.289
25139	4	0.13	80	15	8	16	8.674
30031	7	0.13	40	< 10	16	19	0.595
30032	10	0.08	16	< 10	15	26	0.833
30033	5	0.07	15	< 10	17	26	1.544
30034	8	0.08	15	< 10	24	29	0.358
30035	17	0.04	7	< 10	13	15	0.157
28379	47	0.07	34	< 10	2	1	0.146
28360	2	< 0.01	< 1	< 10	1	4	0.019
28381	63	0.06	64	< 10	3	1	0.056
28382	24	0.04	36	< 10	3	2	0.13
28383	49	0.06	34	< 10	1	1	1.006
28384	19	0.07	28	< 10	3	2	0.038
28385	10	0.11	35	< 10	4	4	0.543
28386	64	0.08	37	< 10	6	1	0.469
28387	105	0.03	25	< 10	1	< 1	0.536
28388	109	0.02	19	< 10	< 1	< 1	0.596
28389	111	0.02	22	< 10	< 1	< 1	0.174
28390	73	0.02	37	< 10	< 1	1	0.496
28391	102	0.03	29	< 10	2	3	2.275
28392	104	0.04	36	< 10	2	3	2.333
28393	102	0.03	33	< 10	1	2	1.478
25140	78	0.02	38	< 10	< 1	1	0.511
25141	4	0.08	16	< 10	18	22	1.153
25142	2	0.03	72	11	3	16	6.660
25143	18	0.20	56	< 10	14	13	0.862
25144	16	0.22	60	< 10	15	9	0.046
25145	21	0.25	71	< 10	11	13	0.106
25146	17	0.19	60	< 10	20	18	0.030
25147	16	0.07	4	< 10	14	35	0.012
25148	16	0.09	22	< 10	10	24	0.039
25149	12	0.05	4	< 10	9	44	0.011

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.0	2.7	1030	721	14	20	986	576	0.66	317	450	<1	1290	0.81	7	6	23.4	0.03	0.16	0.06	0.037	86	1	23
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.62	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	< 0.5	6160	142	329	37	45	70	2.87	96	32	1	37	0.94	16	56	3.49	1.42	1.68	0.12	0.117	< 10	7	< 10
GXR-4 Cert	4.00	0.860	6020	155	310	42.0	62.0	73.0	7.20	98.0	1640	1.60	16.0	1.01	14.6	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	6.60
GXR-2 Meas	19.5	4.8	86	1120	<2	17	779	573	3.88	13	1040	1	<10	0.80	12	29	2.29	0.99	0.66	0.15	0.060	44	6	< 10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	< 0.5	70	1050	< 2	16	95	117	7.82	237	899	< 1	< 10	0.18	16	85	6.24	0.87	0.43	0.07	0.033	< 10	25	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas																								
OREAS 13P Cert																								
30013 Ong	70.1	25.8	> 10000	302	< 2	4130	672	1010	1.41	< 10	7	< 1	26	0.48	245	40	27.7	0.04	0.68	0.04	0.038	< 10	3	56
30013 Dup	68.0	26.4	> 10000	300	< 2	4020	672	1010	1.40	< 10	8	< 1	23	0.62	238	40	26.6	0.04	0.67	0.04	0.037	< 10	3	54
25116 Ong	1.2	< 0.5	367	497	< 2	61	4	55	3.35	< 10	105	< 1	< 10	1.36	74	131	4.66	0.57	2.27	0.06	0.031	< 10	10	< 10
25116 Dup	1.1	0.6	344	506	< 2	61	4	58	3.28	< 10	107	< 1	< 10	1.38	25	134	4.63	0.58	2.31	0.06	0.031	< 10	11	< 10
30030 Ong	< 0.2	< 0.5	4	21	< 2	< 1	< 2	2	0.08	< 10	10	< 1	< 10	0.04	< 1	3	0.09	0.01	0.04	0.02	0.005	< 10	< 1	< 10
30030 Dup	< 0.2	< 0.5	4	11	< 2	< 1	< 2	1	0.04	< 10	10	< 1	< 10	0.04	< 1	3	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10
25133 Ong	< 0.2	< 0.5	18	178	< 2	26	6	51	4.11	< 10	136	< 1	< 10	1.86	19	100	4.80	0.96	1.61	0.38	0.107	< 10	10	< 10
25133 Dup	< 0.2	< 0.5	19	179	< 2	29	8	52	4.26	< 10	138	< 1	< 10	1.90	20	101	4.84	0.98	1.85	0.40	0.103	< 10	10	< 10
28390 Ong	0.8	< 0.5	1630	347	< 2	1760	< 2	28	8.38	< 10	24	< 1	< 10	3.27	55	158	3.74	0.04	3.67	0.35	0.003	< 10	4	< 10
28390 Dup	0.6	< 0.5	1650	343	< 2	1730	2	26	6.27	11	24	< 1	< 10	3.21	55	163	3.76	0.04	3.64	0.35	0.003	< 10	4	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	186		71	139	22	18	0.191
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	75		81	17	12	11	1.801
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	88		53	< 10	12	12	0.038
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	32		175	< 10	7	12	0.019
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
30013 Orig	8	0.06	131	12	2	8	9.206
30013 Dup	11	0.05	131	11	2	7	8.537
25116 Orig	18	0.16	79	< 10	9	5	0.177
25115 Dup	18	0.15	81	< 10	9	5	0.179
30030 Orig	2	< 0.01	1	< 10	1	4	0.020
30030 Dup	2	< 0.01	< 1	< 10	1	5	0.017
25133 Orig	23	0.17	126	< 10	8	5	0.155
25133 Dup	23	0.16	128	< 10	9	5	0.156
28260 Orig	73	0.02	37	< 10	< 1	1	0.501
28260 Dup	72	0.02	37	< 10	< 1	1	0.492
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 26-May-08

Invoice No.: A08-2654

Invoice Date: 13-Jun-08

Your Reference: DOSSIER #22294

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

51 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2654**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva
Administration

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2654

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26394	4.2	1.8	2260	152	<2	716	63	41	6.17	<10	41	<1	<10	4.03	59	233	3.79	0.13	1.06	0.58	0.10	<10	3	<10
26395	2.2	1.4	1180	119	<2	696	67	28	6.20	<10	33	<1	<10	4.31	49	236	3.39	0.11	0.93	0.67	0.096	<10	4	<10
26396	2.9	1.4	1870	128	<2	1060	60	30	5.50	<10	38	<1	<10	3.63	85	138	4.63	0.12	0.85	0.63	0.068	<10	3	<10
26397	2.1	1.3	1290	174	<2	734	53	40	5.13	<10	65	<1	<10	3.29	55	191	4.19	0.34	1.37	0.64	0.099	<10	4	<10
26398	2.6	1.4	1200	226	<2	401	52	33	5.13	<10	60	<1	<10	3.48	33	162	2.67	0.20	1.11	0.52	0.007	<10	4	<10
26399	2.3	1.0	745	251	<2	283	63	26	6.75	<10	37	<1	<10	4.98	28	198	2.32	0.16	1.03	0.51	0.008	<10	5	<10
26400	1.0	1.3	8440	244	<2	>10000	<2	37	0.65	<10	15	<1	<10	0.39	579	30	30.7	0.11	0.15	0.08	0.047	<10	3	<10
26401	<0.2	<0.5	82	403	<2	98	10	5	0.38	<10	6	<1	<10	0.10	4	167	0.46	0.11	0.02	0.06	0.099	<10	1	11
26402	<0.2	<0.5	10	216	<2	11	9	4	0.33	<10	6	<1	<10	0.06	<1	167	0.27	0.12	0.01	0.05	0.096	<10	1	14
26403	0.5	0.6	29	392	<2	13	63	35	0.34	<10	6	<1	<10	0.06	<1	76	0.36	0.11	0.04	0.03	0.097	<10	<1	30
26180	1.0	1.0	8670	272	<2	>10000	<2	42	0.65	<10	11	<1	<10	0.40	658	33	32.1	0.11	0.19	0.09	0.049	12	4	<10
26181	<0.2	<0.5	203	926	<2	168	12	54	2.62	<10	19	<1	<10	2.60	30	120	5.20	0.13	1.51	0.24	0.046	<10	13	<10
26182	<0.2	<0.5	31	324	<2	16	3	30	0.69	<10	9	5	<10	1.10	8	146	1.67	0.08	0.50	0.07	0.021	<10	4	<10
26183	<0.2	<0.5	75	481	<2	21	5	50	1.73	<10	18	3	<10	1.23	15	103	2.87	0.13	1.19	0.08	0.028	<10	7	<10
26184	<0.2	<0.5	106	305	<2	452	<2	47	3.76	<10	5	<1	<10	0.36	57	158	4.77	<0.01	4.96	0.03	0.077	<10	1	<10
26185	<0.2	<0.5	73	287	<2	473	<2	42	3.66	<10	6	<1	<10	0.28	53	147	4.63	<0.01	4.66	0.02	0.010	<10	<1	<10
26186	<0.2	<0.5	52	275	<2	454	<2	41	3.35	<10	4	<1	<10	0.20	50	192	4.62	<0.01	4.53	0.02	0.096	<10	<1	<10
26187	<0.2	<0.5	34	346	<2	413	<2	46	3.72	<10	5	<1	<10	0.40	56	163	5.06	<0.01	4.62	0.03	0.099	<10	1	<10
26188	<0.2	<0.5	9	194	<2	171	<2	24	6.30	<10	84	<1	<10	3.59	26	493	2.98	0.15	2.84	0.24	0.098	<10	3	<10
26189	<0.2	<0.5	5	44	<2	12	4	5	0.31	<10	8	<1	<10	0.09	1	127	0.24	0.11	0.11	0.03	0.096	<10	<1	<10
26404	1.4	1.0	590	624	<2	124	34	38	1.83	<10	13	<1	<10	1.03	24	203	1.43	0.24	0.43	0.11	0.098	<10	2	26
26405	4.9	3.4	2640	400	<2	1140	79	51	5.44	<10	10	<1	<10	4.33	58	198	6.20	0.09	1.19	0.36	0.111	<10	8	<10
26406	2.3	2.6	1210	288	<2	378	93	46	3.66	<10	16	1	<10	2.98	41	143	3.13	0.08	1.08	0.54	0.012	<10	5	<10
26407	2.9	2.0	1880	236	<2	906	79	38	3.45	<10	14	<1	<10	2.76	54	122	4.77	0.08	1.03	0.38	0.015	<10	4	<10
26408	7.7	3.4	4230	241	<2	2220	80	45	2.95	<10	9	<1	<10	2.30	154	90	9.83	0.05	1.04	0.34	0.010	<10	4	<10
26409	8.4	4.3	4960	343	<2	1490	61	63	2.40	<10	18	2	<10	2.03	152	136	8.17	0.13	1.64	0.31	0.098	<10	6	<10
26410	<0.2	<0.5	18	11	<2	4	<2	<1	0.04	<10	8	<1	<10	0.04	<1	2	0.07	0.01	0.02	0.01	0.093	<10	<1	<10
26411	3.6	4.3	1380	211	<2	1300	105	71	4.15	<10	51	1	<10	2.57	69	426	4.89	0.59	2.20	0.35	0.113	<10	4	<10
26412	8.4	9.3	2940	174	<2	1330	166	87	5.27	<10	32	2	<10	3.66	82	123	3.66	0.42	1.93	0.26	0.098	<10	2	<10
26413	8.4	14.0	3250	172	<2	4310	44	142	3.03	<10	11	<1	<10	1.59	156	218	7.99	0.14	2.35	0.13	0.097	<10	2	<10
26414	9.8	19.4	5610	148	<2	2730	32	163	3.30	<10	12	<1	<10	1.72	189	211	6.18	0.13	2.13	0.16	0.096	<10	1	<10
26415	<0.2	0.5	94	168	<2	124	<2	19	4.01	<10	16	<1	<10	2.54	13	236	1.84	0.03	1.87	0.36	0.093	<10	2	<10
26416	0.9	2.4	8580	252	<2	>10000	<2	37	0.60	<10	4	<1	<10	0.37	569	31	31.8	0.11	0.16	0.06	0.045	<10	3	<10
27088	<0.2	<0.5	160	69	<2	69	4	8	6.00	<10	10	<1	<10	4.27	9	106	0.78	0.02	0.81	0.57	0.093	<10	1	<10
27089	<0.2	0.6	303	344	<2	56	<2	23	2.62	<10	8	<1	<10	2.18	31	42	3.32	0.02	1.22	0.16	0.041	<10	7	<10
27070	0.6	0.5	1530	302	<2	1580	<2	26	5.65	<10	19	<1	<10	2.91	59	138	3.40	0.03	3.25	0.31	0.092	<10	3	<10
27071	<0.2	<0.5	128	189	<2	63	<2	12	2.41	<10	8	<1	<10	2.14	21	36	1.99	<0.01	0.68	0.27	0.098	<10	6	<10
27072	<0.2	<0.5	55	80	<2	30	3	7	4.67	<10	10	<1	<10	3.56	6	120	0.72	0.01	0.73	0.58	0.093	<10	2	<10
27073	<0.2	0.5	144	344	<2	61	4	36	2.66	<10	7	<1	<10	2.18	26	67	3.11	<0.01	1.22	0.20	0.035	<10	6	<10
27074	<0.2	<0.5	126	345	<2	65	2	25	2.15	<10	7	<1	<10	1.90	24	59	3.20	0.01	1.14	0.19	0.038	<10	7	<10
27075	<0.2	0.5	56	394	<2	40	<2	26	1.88	<10	8	<1	<10	2.13	20	66	3.10	0.02	1.21	0.16	0.038	<10	9	<10
28414	2.7	3.4	1780	220	<2	1530	79	80	2.96	<10	7	<1	<10	1.88	142	166	6.52	0.04	1.85	0.22	0.077	<10	3	<10
28415	2.8	3.2	1190	137	<2	977	206	66	5.11	<10	7	<1	<10	3.91	56	120	4.79	0.02	0.81	0.35	0.096	<10	4	<10
28416	4.1	3.6	506	79	<2	409	325	42	6.23	<10	6	<1	21	4.95	31	126	1.53	0.01	0.53	0.34	0.094	<10	3	<10
28417	6.5	7.7	951	92	<2	644	267	72	6.19	<10	7	<1	26	4.70	35	176	1.42	0.01	0.71	0.39	0.092	<10	4	<10
28418	46.9	13.0	1750	79	<2	774	1530	94	6.68	<10	12	<1	221	4.79	50	217	3.29	0.02	0.47	0.41	0.096	<10	3	<10
28419	10.9	3.3	5930	124	<2	7960	67	125	1.01	<10	7	<1	<10	0.66	280	63	29.6	0.01	0.46	0.04	0.012	<10	2	<10
28420	0.6	<0.5	1590	295	<2	1620	<2	23	5.79	<10	18	<1	<10	2.75	56	138	3.25	0.03	3.09	0.31	0.093	<10	3	<10
28421	28.7	9.3	>10000	435	<2	2620	159	439	2.63	<10	9	<1	<10	0.93	269	140	16.9	0.03	1.22	0.05	0.012	<10	3	<10
28422	14.7	6.8	>10000	664	<2	3840	138	376	2.93	<10	15	<1	<10	1.61	285	124	21.0	0.10	1.89	0.65	0.018	<10	6	<10
28423	8.9	5.9	5640	722	<2	1820	109	566	3.66	<10	15	3	<10	0.94	354	121	18.3	0.42	3.21	0.04	0.012	<10	9	14

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28384	81	0.04	35	< 10	< 1	2	1.526
28385	81	0.03	24	< 10	< 1	2	1.383
28386	70	0.03	25	< 10	< 1	2	2.258
28387	63	0.05	30	< 10	< 1	2	1.619
28388	58	0.05	34	48	2	1	0.828
28389	83	0.04	37	< 10	1	1	0.504
28400	16	0.07	56	< 10	15	17	9.157
28401	2	< 0.01	1	< 10	29	21	0.063
28402	1	< 0.01	< 1	< 10	15	11	0.012
28403	2	< 0.01	< 1	< 10	19	20	0.039
28180	18	0.08	81	< 10	18	19	9.806
28181	49	0.15	151	< 10	10	4	0.243
28182	13	0.07	44	17	7	5	0.037
28183	11	0.11	78	< 10	9	9	0.083
28643	1	0.02	30	< 10	< 1	2	0.283
28644	< 1	0.02	32	< 10	< 1	2	0.299
28645	< 1	0.02	32	< 10	< 1	1	0.235
28646	1	0.03	37	< 10	< 1	2	0.160
28647	102	0.07	50	< 10	< 1	< 1	0.039
28184	3	< 0.01	2	< 10	3	1	0.010
28404	19	0.02	16	< 10	12	21	0.364
28405	87	0.08	60	< 10	2	3	2.554
28406	66	0.04	37	< 10	2	2	0.838
28407	82	0.05	35	< 10	2	2	1.982
28408	51	0.04	39	< 10	1	4	4.472
28409	30	0.07	53	< 10	2	4	3.638
28410	1	< 0.01	< 1	< 10	< 1	4	0.027
28411	62	0.07	46	< 10	1	2	1.206
28412	86	0.04	20	< 10	< 1	1	1.194
28413	30	0.03	20	< 10	< 1	2	3.687
28648	34	0.03	16	< 10	< 1	2	3.093
28649	57	0.02	18	< 10	2	1	0.075
28650	15	0.08	60	< 10	15	17	9.256
27088	94	< 0.01	6	< 10	< 1	< 1	0.088
27089	37	0.10	86	< 10	4	2	0.471
27070	61	0.02	33	< 10	< 1	1	0.474
27071	44	0.07	47	< 10	3	1	0.296
27072	85	0.01	10	< 10	< 1	< 1	0.038
27073	36	0.10	73	< 10	4	2	0.740
27074	25	0.10	81	< 10	5	2	0.233
27075	20	0.12	87	< 10	6	2	0.107
28414	34	0.03	24	< 10	< 1	2	2.869
28415	88	0.02	24	< 10	< 1	2	2.018
28416	109	0.01	13	< 10	< 1	< 1	0.547
28417	103	0.02	20	< 10	< 1	< 1	0.428
28418	99	0.02	38	< 10	< 1	1	1.342
28419	9	0.03	81	< 10	< 1	9	6.568
28420	81	0.02	32	< 10	< 1	1	0.495
28421	14	0.03	83	< 10	< 1	5	6.688
28422	10	0.03	106	< 10	3	6	7.869
28423	5	0.08	119	< 10	5	6	7.117

Activation Laboratories Ltd. Report: A08-2654

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	22.8	3.2	987	887	12	17	521	549	0.52	287	274	<1	1280	0.78	9	5	20.4	0.03	0.14	0.05	0.030	84	<1	25
GXR-1 Cert	31.0	3.30	1110	952	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.2	0.6	5990	132	320	36	43	51	2.74	91	29	1	16	0.89	15	54	3.20	1.29	1.55	0.11	0.106	<10	6	<10
GXR-4 Cert	4.00	0.660	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.0	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.8	4.6	80	1080	<2	16	779	571	3.48	15	939	1	<10	0.76	10	26	2.06	0.51	0.52	0.13	0.055	33	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.8	63	993	<2	17	92	114	7.15	223	812	<1	<10	0.16	15	82	5.61	0.83	0.39	0.06	0.031	<10	23	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
25152 Orig	< 0.2	< 0.5	30	316	< 2	17	3	30	0.97	< 10	9	5	< 10	1.09	8	144	1.63	0.08	0.49	0.07	0.021	< 10	4	< 10
25152 Dup	< 0.2	< 0.5	32	331	< 2	16	3	30	1.00	< 10	9	5	< 10	1.11	8	149	1.70	0.08	0.50	0.07	0.021	< 10	4	< 10
28410 Orig	< 0.2	< 0.5	21	11	< 2	6	< 2	< 1	0.04	< 10	8	< 1	< 10	0.04	< 1	2	0.07	0.01	0.02	0.01	0.003	< 10	< 1	< 10
28410 Dup	< 0.2	< 0.5	12	10	< 2	3	< 2	< 1	0.03	< 10	7	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.01	0.004	< 10	< 1	< 10
27074 Orig	< 0.2	< 0.5	127	345	< 2	66	2	25	2.15	< 10	7	< 1	< 10	1.90	24	59	3.21	0.01	1.14	0.19	0.038	< 10	7	< 10
27074 Dup	< 0.2	0.5	125	345	< 2	66	2	24	2.14	< 10	7	< 1	< 10	1.90	24	59	3.19	0.01	1.14	0.19	0.038	< 10	7	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	139		84	114	20	17	0.169
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	65		79	13	11	9	1.738
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	78		48	< 10	11	10	0.036
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	28		156	< 10	6	13	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
25152 Orig	13	0.07	44	16	6	4	0.036
25152 Dup	13	0.07	45	18	7	5	0.037
28410 Orig	1	< 0.01	< 1	< 10	< 1	4	0.029
28410 Dup	1	< 0.01	< 1	< 10	< 1	4	0.024
27074 Orig	25	0.10	81	< 10	5	2	0.230
27074 Dup	25	0.10	81	< 10	5	2	0.238
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 02-Jun-08

Invoice No.: A08-2862

Invoice Date: 21-Jul-08

Your Reference: 22330

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

90 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2862**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2862 Revised

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23351	< 0.2	< 0.5	60	301	< 2	43	< 2	15	2.23	< 10	9	< 1	< 10	2.53	24	71	2.05	0.01	0.95	0.04	0.060	< 10	5	< 10
23352	< 0.2	0.6	113	578	< 2	36	3	35	3.60	< 10	36	< 1	< 10	3.78	29	81	4.44	0.06	1.46	0.37	0.050	< 10	14	< 10
23353	< 0.2	0.7	248	980	< 2	17	< 2	39	1.90	< 10	78	< 1	< 10	2.28	38	41	5.77	0.15	1.13	0.24	0.115	< 10	14	< 10
23354	0.2	0.7	154	547	< 2	15	6	39	3.02	< 10	43	< 1	< 10	3.04	42	42	5.38	0.06	1.02	0.31	0.115	< 10	13	< 10
23355	< 0.2	0.9	133	324	< 2	149	< 2	84	4.43	< 10	228	< 1	< 10	0.48	51	681	8.97	1.76	4.08	0.16	0.007	< 10	11	< 10
23356	< 0.2	0.6	415	389	< 2	57	3	31	2.85	< 10	87	< 1	< 10	2.52	38	105	4.26	0.12	1.53	0.30	0.045	< 10	11	< 10
23357	0.5	1.1	666	248	< 2	20	< 2	126	2.26	< 10	167	< 1	< 10	0.22	12	96	3.61	0.48	1.75	0.09	0.014	< 10	4	< 10
23358	0.5	0.5	304	152	< 2	12	2	70	1.85	< 10	29	< 1	< 10	0.18	6	116	1.50	0.08	1.05	0.05	0.028	< 10	2	< 10
23359	0.6	0.8	554	167	< 2	35	< 2	85	2.21	< 10	70	< 1	< 10	0.17	15	125	2.45	0.20	1.45	0.06	0.017	< 10	2	< 10
23360	< 0.2	< 0.5	3	13	< 2	< 1	< 2	1	0.04	< 10	9	< 1	< 10	0.17	< 1	2	0.03	0.01	0.01	0.004	< 10	< 1	< 10	
23361	0.9	0.7	738	124	< 2	89	< 2	83	2.55	< 10	79	< 1	< 10	1.09	29	188	2.61	0.28	1.85	0.17	0.010	< 10	4	< 10
23362	0.6	0.5	522	165	< 2	108	4	59	3.35	< 10	88	< 1	< 10	1.67	23	319	2.77	0.25	1.95	0.23	0.019	< 10	4	< 10
23363	1.1	< 0.5	1010	131	< 2	416	6	24	5.97	< 10	10	< 1	< 10	4.54	30	105	1.75	0.02	1.29	0.88	0.015	< 10	2	< 10
23364	< 0.2	< 0.5	147	170	< 2	160	8	21	6.46	< 10	11	< 1	< 10	4.87	19	182	1.84	0.03	1.84	0.39	0.011	< 10	3	< 10
23365	0.2	< 0.5	170	108	< 2	137	5	13	6.45	< 10	11	< 1	< 10	4.92	13	184	1.11	0.02	0.98	0.61	0.004	< 10	3	< 10
23366	< 0.2	< 0.5	336	146	< 2	267	6	19	7.23	< 10	16	< 1	< 10	5.58	26	267	1.79	0.02	2.82	0.83	0.005	< 10	3	< 10
23367	0.6	0.5	350	284	< 2	34	3	48	3.01	< 10	549	< 1	< 10	0.19	14	77	3.30	0.62	2.47	0.08	0.013	< 10	8	< 10
23368	0.3	< 0.5	185	127	< 2	93	9	13	6.83	< 10	26	< 1	< 10	5.53	11	166	1.18	0.05	0.76	0.68	0.011	< 10	4	< 10
23369	0.3	< 0.5	182	100	< 2	73	7	13	5.93	< 10	18	< 1	< 10	4.87	12	145	1.00	0.05	0.73	0.60	0.011	< 10	3	< 10
23370	< 0.2	< 0.5	3	11	< 2	< 1	< 2	1	0.04	< 10	11	< 1	< 10	0.04	< 1	3	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10
23371	0.2	< 0.5	159	162	< 2	71	14	18	5.98	< 10	15	< 1	< 10	4.86	12	125	1.31	0.01	0.93	0.68	0.013	< 10	4	< 10
23372	< 0.2	< 0.5	116	241	< 2	82	10	15	5.18	< 10	21	< 1	< 10	4.38	14	140	1.32	0.03	0.92	0.56	0.011	< 10	4	< 10
23373	< 0.2	< 0.5	106	130	< 2	45	7	14	5.98	< 10	17	< 1	< 10	4.95	9	145	1.06	0.01	0.85	0.63	0.011	< 10	4	< 10
23374	0.5	< 0.5	261	259	< 2	136	8	32	5.98	< 10	13	< 1	< 10	5.03	16	203	1.72	0.02	1.09	0.58	0.012	< 10	5	< 10
23375	0.4	< 0.5	216	164	< 2	75	17	22	6.04	< 10	14	< 1	< 10	4.74	12	133	1.12	0.01	0.78	0.69	0.010	< 10	4	< 10
23376	0.4	< 0.5	234	141	< 2	84	16	20	5.73	< 10	18	< 1	< 10	4.66	14	141	1.18	0.03	0.85	0.66	0.010	< 10	4	< 10
23377	2.2	1.2	1340	134	< 2	358	18	41	5.28	< 10	43	< 1	< 10	4.10	38	147	1.97	0.11	0.99	0.61	0.012	< 10	4	< 10
23378	4.0	2.1	2460	171	< 2	769	25	61	4.57	< 10	32	< 1	< 10	3.41	59	128	3.85	0.03	0.97	0.66	0.014	< 10	5	< 10
23379	1.0	0.8	742	165	< 2	423	28	50	4.94	< 10	32	< 1	< 10	3.75	43	110	2.76	0.17	1.57	0.38	0.007	< 10	4	< 10
23380	0.7	0.5	1350	332	< 2	1550	5	28	5.97	< 10	26	< 1	< 10	3.17	57	185	3.71	0.02	3.55	0.35	0.003	< 10	3	< 10
23381	0.7	< 0.5	426	157	< 2	294	28	57	4.78	< 10	38	< 1	< 10	3.21	40	125	2.49	0.22	2.06	0.37	0.009	< 10	4	< 10
23382	1.5	1.0	790	148	< 2	308	57	52	4.88	< 10	34	< 1	< 10	3.91	25	182	2.11	0.08	1.09	0.61	0.008	< 10	5	< 10
23383	2.3	2.4	1430	156	< 2	792	64	101	4.45	< 10	58	< 1	< 10	3.32	51	150	4.19	0.17	1.44	0.51	0.005	< 10	4	< 10
23384	8.8	4.0	7790	167	< 2	5090	23	128	1.74	< 10	11	< 1	< 10	1.37	540	119	18.9	0.12	1.37	0.13	0.010	< 10	4	< 10
23385	2.9	2.9	2300	216	< 2	1870	36	130	2.56	< 10	30	< 1	< 10	2.08	109	198	7.49	0.14	1.54	0.21	0.006	< 10	5	< 10
23386	3.1	3.3	1800	210	< 2	1340	78	125	3.51	< 10	15	< 1	< 10	3.09	65	139	5.74	0.03	1.11	0.48	0.009	< 10	5	< 10
23387	3.0	3.3	1930	211	< 2	965	104	111	4.60	< 10	32	< 1	< 10	3.66	52	171	4.74	0.07	1.23	0.62	0.007	< 10	5	< 10
23388	3.5	3.3	2100	228	< 2	1050	100	160	4.43	< 10	62	< 1	< 10	3.15	57	199	5.46	0.36	1.92	0.47	0.006	< 10	6	< 10
23389	2.3	2.2	1230	206	< 2	568	129	133	4.30	< 10	62	< 1	< 10	3.18	38	179	3.41	0.31	1.66	0.90	0.008	< 10	5	< 10
23390	< 0.2	< 0.5	4	11	< 2	1	< 2	2	0.03	< 10	9	< 1	< 10	0.04	< 1	3	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10
23391	9.4	7.1	5290	201	< 2	1820	143	254	3.38	< 10	24	< 1	< 10	2.73	50	175	7.30	0.07	1.10	0.48	0.007	< 10	6	< 10
23392	10.3	6.2	6030	189	< 2	2260	141	218	3.12	< 10	21	< 1	< 10	2.45	118	155	8.63	0.07	0.91	0.42	0.012	< 10	5	< 10
23393	13.0	8.5	6640	229	< 2	2440	145	293	3.22	< 10	17	< 1	< 10	2.59	135	201	5.50	0.06	1.08	0.44	0.009	< 10	6	< 10
23394	7.6	4.9	3570	216	< 2	1470	173	197	3.76	< 10	26	< 1	< 10	3.02	83	186	6.24	0.09	1.12	0.53	0.008	< 10	5	< 10
23395	8.8	5.4	3930	240	< 2	1450	174	225	4.18	< 10	15	< 1	< 10	3.58	87	222	8.45	0.04	1.21	0.49	0.009	< 10	7	< 10
23396	6.0	4.1	2930	219	< 2	1210	165	150	4.47	< 10	15	< 1	< 10	3.59	55	177	5.43	0.03	0.95	0.55	0.012	< 10	5	< 10
23397	18.6	15.6	8230	212	< 2	885	239	410	3.27	< 10	19	< 1	< 10	2.88	67	188	6.39	0.03	1.16	0.47	0.012	< 10	7	< 10
23398	19.9	13.3	8980	172	< 2	1890	202	327	3.13	< 10	19	< 1	< 10	2.57	128	174	8.03	0.02	0.93	0.45	0.016	< 10	8	< 10
23399	14.7	10.3	6960	198	< 2	1310	211	254	3.65	< 10	16	< 1	< 10	3.00	87	177	6.26	0.02	1.03	0.51	0.013	< 10	6	< 10
23400	0.9	1.9	8880	318	< 2	> 10000	4	46	0.51	< 10	5	< 1	< 10	0.40	553	33	32.7	0.11	1.17	0.08	0.050	< 10	4	< 10
23401	11.9	8.5	5770	198	< 2	1060	206	231	3.83	< 10	18	< 1	< 10	2.94	70	153	5.44	0.02	1.07	0.51	0.015	< 10	6	< 10
23402	5.5	3.4	2850	165	< 2	1630	189	89	4.33	< 10	16	< 1	< 10	3.53	103	205	6.32	0.03	1.01	0.49	0.011	< 10	5	< 10

Activation Laboratories Ltd. Report: A08-2862 Revised

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23403	5.3	4.5	2390	172	<2	1390	103	127	4.08	<10	42	<1	<10	2.63	77	327	5.57	0.31	2.59	0.23	0.11	<10	4	<10
23404	12.1	12.2	6850	94	<2	1940	124	125	2.65	<10	8	<1	<10	2.61	105	91	6.92	0.02	0.83	0.16	0.035	<10	3	<10
23405	17.5	8.8	8600	96	<2	4860	158	117	2.58	<10	16	<1	<10	1.38	283	294	18.4	0.19	1.65	0.13	0.012	<10	4	<10
23406	8.8	9.0	3980	63	<2	1630	164	105	4.64	<10	37	<1	<10	2.52	118	224	5.81	0.42	2.31	0.24	0.009	<10	4	<10
23407	9.0	8.7	2990	59	<2	600	250	79	5.22	<10	22	<1	<10	3.27	52	171	3.29	0.10	2.04	0.31	0.011	<10	3	<10
23408	4.8	7.4	1890	52	<2	798	149	55	2.46	<10	27	<1	<10	1.55	52	244	3.02	0.12	1.08	0.22	0.008	<10	3	<10
23409	2.1	3.3	863	67	<2	460	252	44	5.10	<10	8	<1	<10	4.36	59	73	2.30	<0.01	0.46	0.36	0.013	<10	4	<10
23410	<0.5	3	10	<2	<1	<2	2	0.03	<10	<10	9	<1	<10	0.04	<1	3	0.05	<0.01	0.02	0.01	0.004	<10	<1	<10
23411	6.1	2.7	6470	59	<2	3400	161	97	4.07	<10	11	<1	<10	2.79	217	41	13.7	<0.01	0.24	0.38	0.024	<10	2	<10
23412	3.9	3.2	3710	78	<2	2070	183	134	5.13	<10	12	<1	<10	3.68	139	134	6.23	<0.01	0.38	0.36	0.015	<10	4	<10
23413	3.4	2.4	2730	65	<2	1840	250	78	8.45	<10	24	<1	<10	4.39	142	218	8.45	0.08	0.39	0.43	0.013	<10	3	<10
23414	2.5	2.5	696	76	<2	501	372	78	7.55	<10	37	<1	<10	5.59	41	221	3.31	0.13	0.65	0.43	0.015	<10	3	<10
23415	4.2	5.6	4290	106	<2	2820	135	292	3.91	<10	21	<1	<10	2.29	143	236	13.3	0.41	1.09	0.24	0.012	<10	4	<10
23416	13.1	10.4	>10000	179	<2	4400	95	414	2.09	<10	10	<1	<10	0.80	245	88	21.2	0.28	1.15	0.07	0.012	<10	3	<10
23417	2.8	9.1	2980	166	<2	5540	80	356	1.22	<10	14	<1	<10	0.58	162	65	23.5	0.17	0.86	0.04	0.009	<10	3	<10
23418	1.5	3.9	1480	46	<2	>10000	39	113	0.35	<10	13	<1	<10	0.13	385	36	41.2	0.05	0.20	0.02	0.006	<10	<1	11
23419	1.6	2.6	2260	51	<2	>10000	29	46	0.30	<10	10	<1	<10	0.22	284	20	41.6	0.02	0.17	0.02	0.006	11	<1	<10
23420	0.6	<0.5	1420	322	<2	1520	4	28	6.22	<10	25	<1	<10	3.12	55	176	3.64	0.02	3.48	0.37	0.003	<10	3	<10
23421	4.2	4.7	4070	93	<2	8670	98	158	1.71	<10	20	<1	<10	0.91	231	70	31.4	0.05	0.37	0.13	0.014	<10	<1	<10
23422	20.2	12.6	>10000	217	<2	3550	141	459	2.11	<10	14	<1	<10	1.60	453	110	16.5	0.04	0.78	0.09	0.028	<10	2	13
23423	17.9	9.0	>10000	306	<2	3670	172	420	2.13	<10	11	<1	<10	0.62	803	76	21.2	0.14	1.38	0.08	0.015	<10	3	<10
23424	5.0	4.9	5110	280	<2	8740	84	239	1.85	<10	17	<1	<10	0.31	259	110	32.8	0.21	1.19	0.08	0.009	<10	3	<10
23425	5.9	9.1	5300	675	<2	2680	156	588	2.71	<10	19	<1	<10	1.35	366	137	17.2	0.05	2.66	0.07	0.029	<10	5	<10
23426	6.1	7.9	4130	1020	<2	1020	176	511	4.38	<10	12	<1	<10	1.81	87	167	11.3	0.03	4.24	0.06	0.016	<10	10	<10
23427	8.7	11.6	7300	1100	<2	2150	221	555	4.18	<10	7	<1	<10	1.73	99	227	15.5	0.02	4.02	0.02	0.014	<10	8	<10
23428	11.2	4.4	>10000	794	<2	4690	210	234	2.69	<10	9	<1	<10	1.54	348	80	22.3	0.03	2.69	0.02	0.022	<10	8	<10
23429	0.9	1.5	690	588	<2	254	43	111	2.47	<10	56	<1	<10	1.34	47	107	4.84	0.20	1.85	0.08	0.028	<10	8	<10
23430	<0.2	<0.5	4	13	<2	4	<2	2	0.04	<10	10	<1	<10	0.04	<1	3	0.06	0.01	0.02	0.01	0.005	<10	<1	<10
23431	<0.2	1.4	73	837	<2	31	37	99	2.62	<10	28	<1	<10	2.40	10	84	3.64	0.09	2.44	0.02	0.027	<10	5	<10
23432	<0.2	<0.5	127	518	<2	66	7	44	2.08	<10	44	<1	<10	1.77	7	110	2.43	0.15	1.92	0.03	0.008	<10	3	<10
23433	<0.2	<0.5	13	372	<2	17	4	36	1.60	<10	57	<1	<10	0.98	4	176	1.96	0.21	1.66	0.03	0.007	<10	2	<10
23434	<0.2	<0.5	7	443	<2	9	2	44	2.07	<10	38	<1	<10	1.29	3	116	2.31	0.20	2.09	0.02	0.006	<10	2	<10
23435	<0.2	<0.5	5	316	2	8	3	40	1.73	<10	40	<1	<10	0.18	3	76	1.87	0.19	1.78	0.02	0.006	<10	1	<10
23436	<0.2	<0.5	27	112	<2	16	3	25	0.33	<10	24	<1	<10	0.07	2	265	0.73	0.07	0.28	0.02	<0.001	<10	<1	<10
23437	0.4	2.4	724	996	<2	20	30	402	3.32	<10	90	2	<10	0.41	31	94	6.68	0.89	2.34	0.06	0.013	<10	5	<10
23438	<0.2	<0.5	26	388	6	23	3	64	1.66	<10	74	<1	<10	0.27	9	214	2.32	0.32	1.44	0.04	0.011	<10	3	<10
23439	<0.2	0.6	152	734	<2	43	2	56	2.60	<10	22	<1	<10	2.77	31	120	6.37	0.12	1.65	0.17	0.050	<10	14	<10
23440	0.6	0.5	1430	326	<2	1550	5	28	6.13	<10	24	<1	<10	3.17	57	183	3.74	0.02	3.54	0.36	0.003	<10	3	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ni
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23351	35	0.44	79	< 10	15	3	0.117		
23362	58	0.20	137	< 10	12	2	0.171		
23363	11	0.18	79	< 10	22	5	0.551		
23364	33	0.16	79	< 10	22	4	0.467		
23365	8	0.14	99	< 10	1	3	0.257		
23366	37	0.15	107	< 10	8	2	0.818		
23367	8	0.06	23	< 10	6	9	0.608		
23368	5	0.07	13	< 10	8	6	0.093		
23369	5	0.07	20	< 10	4	5	0.410		
23370	2	< 0.01	< 1	< 10	1	5	0.007	3	< 1
23381	18	0.08	34	< 10	3	3	0.526		
23362	28	0.08	48	< 10	4	3	0.347		
23363	95	0.02	16	< 10	1	< 1	0.395		
23364	95	0.08	28	< 10	1	< 1	0.089		
23365	106	0.02	18	< 10	< 1	< 1	0.107		
23366	109	0.03	31	< 10	1	< 1	0.442		
23367	12	0.10	25	< 10	3	2	0.069		
23368	106	0.03	23	< 10	1	< 1	0.153		
23369	85	0.03	20	< 10	< 1	< 1	0.121		
23370	2	< 0.01	< 1	< 10	1	4	0.018		
23371	100	0.04	28	< 10	1	< 1	0.099		
23372	91	0.04	26	< 10	1	< 1	0.107		
23373	103	0.03	23	< 10	1	< 1	0.061		
23374	97	0.04	30	< 10	1	< 1	0.226		
23375	86	0.02	21	< 10	< 1	< 1	0.129		
23376	81	0.03	23	< 10	< 1	< 1	0.157		
23377	71	0.04	24	< 10	1	< 1	0.810		
23378	67	0.04	27	< 10	1	2	1.667		
23379	68	0.05	27	< 10	< 1	< 1	0.740		
23380	70	0.02	37	< 10	< 1	1	0.520		
23381	59	0.05	27	< 10	< 1	< 1	0.314		
23382	78	0.04	31	< 10	1	< 1	0.983		
23383	65	0.05	32	< 10	< 1	1	1.588		
23384	13	0.05	38	< 10	1	5	9.740		
23385	25	0.05	34	< 10	< 1	2	3.462		
23386	59	0.04	35	< 10	1	2	2.650		
23387	75	0.04	39	< 10	1	2	1.879		
23388	66	0.07	45	< 10	< 1	2	1.918		
23389	67	0.05	37	< 10	< 1	1	1.026		
23390	2	< 0.01	< 1	< 10	1	4	0.020		
23391	47	0.03	32	< 10	1	3	3.706		
23392	46	0.04	36	< 10	1	3	4.845		
23393	48	0.04	42	< 10	1	3	4.894		
23394	57	0.04	36	< 10	1	2	2.961		
23395	83	0.04	40	< 10	1	2	2.927		
23396	69	0.04	36	< 10	1	2	2.427		
23397	50	0.04	41	< 10	2	2	2.606		
23398	47	0.03	33	< 10	2	4	4.377		
23399	58	0.03	36	< 10	1	2	3.211		
23400	15	0.10	61	< 10	17	18	9.046		
23401	59	0.04	39	< 10	1	2	2.518		
23402	68	0.04	37	< 10	1	2	3.053		

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ni
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23403	37	0.08	50	< 10	1	2	2.568		
23404	35	0.04	26	< 10	2	2	4.153		
23405	19	0.10	95	< 10	1	4	8.072		
23406	42	0.05	102	< 10	< 1	2	2.773		
23407	54	0.02	79	< 10	< 1	< 1	1.298		
23408	28	0.03	66	< 10	1	1	1.526		
23409	52	0.04	27	< 10	1	1	1.134		
23410	2	< 0.01	< 1	< 10	1	4	0.019		
23411	40	0.02	17	< 10	2	4	6.923		
23412	49	0.04	39	< 10	2	3	4.378		
23413	78	0.03	72	< 10	2	3	3.846		
23414	59	0.05	59	< 10	2	1	1.132		
23415	44	0.08	84	< 10	2	4	6.120		
23416	14	0.08	131	< 10	1	6	7.306		
23417	8	0.08	134	< 10	2	6	6.469		
23418	3	0.03	129	< 10	< 1	9	6.348		
23419	4	0.04	67	< 10	< 1	9	6.003		
23420	70	0.02	36	< 10	< 1	1	0.514		
23421	15	0.04	87	< 10	2	8	6.032		
23422	19	0.14	112	< 10	4	6	8.975		
23423	8	0.04	65	< 10	3	6	9.061		
23424	11	0.05	105	< 10	2	8	5.578		
23425	10	0.05	76	< 10	6	5	6.903		
23426	8	0.05	86	< 10	4	3	2.981		
23427	4	0.04	72	< 10	3	4	4.364		
23428	3	0.08	94	< 10	6	6	8.510		
23429	12	0.17	41	< 10	20	16	0.746		
23430	2	< 0.01	< 1	< 10	1	4	0.021		
23431	14	0.12	19	< 10	28	12	0.112		
23432	7	0.07	4	< 10	32	25	0.144		
23433	5	0.06	1	< 10	32	24	0.024		
23434	4	0.05	< 1	< 10	31	24	0.020		
23435	4	0.04	1	< 10	25	25	0.019		
23436	1	0.01	4	< 10	3	4	0.018		
23437	12	0.10	25	< 10	14	12	1.091		
23438	6	0.05	10	< 10	13	11	0.031		
23439	21	0.17	167	< 10	11	3	0.264		
23440	70	0.02	36	< 10	< 1	< 1	0.531		

Activation Laboratories Ltd. Report: A08-2862 Revised

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.7	3.5	1060	774	14	36	966	631	0.45	331	258	<1	1390	0.83	10	6	22.9	0.03	0.15	0.06	0.036	73	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.4	0.7	5850	138	334	39	44	55	2.60	96	30	1	24	0.97	17	58	3.20	1.30	1.67	0.11	0.127	<10	7	<10
GXR-4 Cert	4.00	0.860	6020	155	310	42.0	62.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.2	4.8	86	1110	<2	19	778	563	3.41	19	1000	1	<10	0.79	11	27	2.23	0.57	0.55	0.19	0.063	38	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.8	66	1030	<2	26	99	121	7.05	237	825	<1	<10	0.16	16	88	5.24	0.89	0.41	0.10	0.034	<10	23	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.9	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2800			2390											6.05							
OREAS 13P Cert			2500			2280											7.58							
23363 Ong	1.1	<0.5	992	124	<2	413	5	23	5.56	<10	10	<1	<10	4.55	29	105	1.74	0.02	1.25	0.38	0.015	<10	2	<10
23363 Dup	1.1	0.5	1020	139	<2	418	7	24	5.87	<10	10	<1	<10	4.52	31	106	1.76	0.02	1.30	0.36	0.015	<10	2	<10
23377 Ong	2.2	1.2	1360	139	2	361	19	41	5.25	<10	42	<1	<10	4.09	35	147	2.01	0.11	0.95	0.61	0.012	<10	4	<10
23377 Dup	2.2	1.2	1320	130	<2	365	18	42	5.24	<10	44	<1	<10	4.10	36	147	1.93	0.11	0.95	0.60	0.011	<10	4	<10
23350 Ong	<0.2	<0.5	4	12	<2	1	2	2	0.04	<10	9	<1	<10	0.04	<1	3	0.06	0.01	0.02	0.01	0.004	<10	<1	<10
23360 Dup	<0.2	<0.5	3	11	<2	1	<2	1	0.03	<10	9	<1	<10	0.04	<1	2	0.05	0.01	0.02	0.01	0.004	<10	<1	<10
23404 Ong	12.2	12.6	6850	96	<2	1930	123	127	2.64	<10	8	<1	<10	2.63	108	82	5.96	0.02	0.64	0.16	0.034	<10	3	<10
23404 Dup	12.0	11.8	6850	91	<2	1950	125	123	2.66	<10	7	<1	<10	2.59	102	80	5.87	0.02	0.62	0.16	0.037	<10	3	<10
23427 Ong	8.8	11.5	7370	1100	<2	2180	222	585	4.20	<10	7	<1	<10	1.74	102	228	15.6	0.02	4.04	0.02	0.014	<10	8	<10
23427 Dup	8.5	11.7	7240	1100	<2	2130	220	545	4.15	<10	8	<1	<10	1.73	95	227	15.4	0.02	3.95	0.02	0.014	<10	8	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ni
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	151		73	129	22	17	0.186	1110	33
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257	1110	41.0
GXR-4 Meas	85		83	12	11	10	1.930	5850	38
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77	6520	42.0
GXR-2 Meas	85		51	< 10	12	11	0.039	95	19
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313	76.0	21.0
GXR-6 Meas	29		182	< 10	6	12	0.016	66	23
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160	66.0	27.0
OREAS 13P Meas								2950	2380
OREAS 13P Cert								2500	2280
23363 Orig	95	0.02	16	< 10	1	< 1	0.391		
23363 Dup	95	0.02	16	< 10	1	< 1	0.398		
23377 Orig	71	0.04	24	< 10	1	< 1	0.606		
23377 Dup	72	0.04	24	< 10	1	< 1	0.614		
23350 Orig	2	< 0.01	< 1	< 10	1	4	0.020		
23360 Dup	2	< 0.01	< 1	< 10	1	4	0.019		
23404 Orig	35	0.04	26	< 10	2	2	4.169		
23404 Dup	35	0.04	26	< 10	2	2	4.138		
23427 Orig	4	0.04	73	< 10	3	4	4.414		
23427 Dup	4	0.04	72	< 10	3	4	4.313		
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001		
Blank									
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001		
Blank									
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001		
Blank									
Method Blank Method								< 1	< 1
Blank									



Date Submitted: 02-Jun-08
Invoice No.: A08-2863
Invoice Date: 17-Jun-08
Your Reference: DOSSIER 22331

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

80 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2863**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Administration

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2863

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
23871	1.5	1.7	929	160	<2	257	6	83	3.49	<10	86	<1	<10	1.13	55	132	4.26	0.26	2.66	0.22	0.007	<10	7	<10	
23872	0.8	0.9	468	118	<2	436	16	37	3.19	<10	14	<1	<10	1.98	50	73	2.31	0.04	0.91	0.40	0.022	<10	4	<10	
23873	0.5	0.9	287	103	<2	205	7	39	2.62	<10	73	<1	<10	1.28	37	187	2.89	0.13	1.25	0.32	0.004	<10	4	<10	
23874	0.5	1.0	296	85	<2	212	4	50	2.60	<10	143	<1	<10	1.08	40	195	3.73	0.31	1.31	0.32	0.004	<10	5	<10	
23875	0.4	0.7	166	63	<2	139	4	30	2.15	<10	84	<1	<10	1.03	25	176	2.62	0.19	0.87	0.31	0.003	<10	4	<10	
23876	0.8	0.6	254	67	<2	308	3	23	1.46	<10	10	<1	<10	0.81	42	306	1.81	0.27	0.02	0.54	0.22	0.013	<10	3	<10
23877	1.6	0.9	765	82	<2	483	6	39	1.91	<10	84	<1	<10	0.64	47	191	4.33	0.24	1.24	0.20	0.004	<10	5	<10	
23878	1.4	1.4	743	92	<2	262	4	38	1.81	<10	11	<1	<10	0.82	40	169	3.38	0.02	0.76	0.26	0.003	<10	3	<10	
23879	2.3	1.5	930	71	<2	1300	3	36	1.30	<10	33	<1	<10	0.33	58	149	7.41	0.15	1.10	0.11	0.006	<10	3	<10	
23880	0.6	0.7	1380	282	<2	1420	6	24	5.72	<10	21	<1	<10	2.75	53	160	3.68	0.02	3.22	0.32	0.002	<10	3	<10	
23881	0.7	1.0	281	53	<2	388	4	24	1.02	<10	55	<1	<10	0.27	45	155	3.75	0.18	0.82	0.12	0.005	<10	3	<10	
23882	<0.2	<0.5	13	156	2	28	<2	39	1.32	<10	133	<1	<10	0.33	10	154	2.06	0.41	1.05	0.06	0.014	<10	5	<10	
23883	0.5	1.0	233	102	<2	226	<2	39	2.11	<10	72	<1	<10	0.27	31	158	4.04	0.27	1.97	0.08	0.008	<10	5	<10	
23884	0.9	0.9	467	67	<2	349	6	22	2.40	<10	38	<1	<10	1.04	38	151	2.71	0.13	1.10	0.31	0.008	<10	3	<10	
23885	10.3	5.2	2870	230	<2	377	10	60	3.43	<10	12	<1	<10	1.44	44	63	3.83	0.04	2.18	0.26	0.011	<10	5	<10	
23886	0.2	<0.5	46	78	<2	29	14	14	3.30	<10	11	<1	<10	1.70	8	66	0.90	0.02	0.82	0.41	0.008	<10	2	<10	
23887	0.8	0.9	247	156	<2	81	33	29	3.40	<10	29	<1	<10	1.72	29	64	2.21	0.07	1.34	0.38	0.010	<10	3	<10	
23888	0.7	1.3	176	210	<2	60	66	44	2.26	<10	24	<1	<10	0.81	19	66	2.23	0.07	1.66	0.17	0.016	<10	4	<10	
23889	3.4	2.1	934	147	<2	204	50	30	4.69	<10	37	<1	<10	2.80	29	48	2.34	0.08	1.10	0.45	0.008	<10	2	<10	
23890	<0.2	<0.5	5	9	<2	<1	3	1	0.04	<10	7	<1	<10	0.04	<1	<2	0.65	0.01	0.02	<0.01	0.003	<10	<1	<10	
23891	6.3	2.5	966	343	<2	133	36	44	4.32	<10	45	<1	<10	1.40	25	78	3.37	0.15	2.89	0.20	0.006	<10	7	<10	
23892	7.1	4.8	1160	347	<2	114	13	54	4.11	<10	28	<1	<10	0.41	22	88	3.54	0.15	3.89	0.08	0.006	<10	8	<10	
23893	2.6	2.7	377	326	<2	44	5	49	3.12	<10	8	<1	<10	0.21	12	55	2.57	0.02	3.05	0.04	0.009	<10	5	<10	
23894	17.2	13.0	2240	501	<2	412	7	244	4.38	<10	17	<1	<10	3.7	83	43	39	7.06	0.09	5.12	0.03	0.018	<10	10	<10
23895	19.1	11.4	2950	291	<2	115	42	34	2.57	<10	14	<1	<10	0.53	15	48	3.42	0.04	2.29	0.07	0.005	<10	3	<10	
23896	29.3	11.7	3920	368	<2	394	103	80	3.16	<10	47	<1	<10	1.10	43	66	4.74	0.11	2.23	0.13	0.006	<10	5	<10	
23897	49.8	12.8	5500	313	<2	144	139	81	2.52	<10	5	<1	<10	24	141	26	45	2.68	<0.01	1.37	0.04	0.003	<10	3	<10
23898	56.7	14.7	6830	424	<2	182	141	116	2.73	<10	5	<1	<10	33	145	31	60	3.61	<0.01	1.68	0.04	0.003	<10	4	<10
23899	11.3	4.3	1380	281	<2	75	97	41	3.63	<10	7	<1	<10	2.69	17	44	1.99	0.01	1.22	0.10	0.004	<10	4	<10	
23900	1.0	2.9	8320	242	<2	>10000	9	38	0.46	<10	15	<1	<10	0.36	528	31	31.5	0.11	0.15	0.07	0.045	<10	3	<10	
23901	8.6	2.7	1060	205	<2	114	124	41	6.47	<10	62	<1	<10	3.82	16	66	2.65	0.20	1.69	0.29	0.006	<10	5	<10	
23902	51.7	19.8	7770	242	<2	424	35	129	2.85	<10	27	<1	<10	1.35	83	41	4.57	0.08	1.88	0.11	0.012	<10	4	<10	
23903	43.9	19.5	7430	200	<2	236	42	123	2.88	<10	54	<1	<10	1.83	28	47	3.31	0.13	1.34	0.09	0.008	<10	3	<10	
23904	22.9	31.7	3100	314	3	106	91	347	1.36	<10	8	<1	<10	0.96	7	56	1.70	0.01	1.30	0.01	0.021	<10	<1	<10	
23905	25.0	23.5	4100	290	<2	123	60	249	3.05	<10	30	<1	<10	1.85	17	45	2.52	0.10	1.43	0.09	0.006	<10	2	<10	
23906	4.1	2.0	794	265	<2	69	69	50	4.78	<10	71	<1	<10	2.33	9	51	2.86	0.36	2.33	0.23	0.006	<10	4	<10	
23907	18.3	5.5	2900	203	<2	210	69	62	4.22	<10	28	<1	<10	2.84	17	81	2.32	0.11	1.05	0.13	0.004	<10	2	<10	
23908	17.3	4.8	2940	188	<2	271	42	75	4.53	<10	38	<1	<10	2.50	25	63	3.33	0.21	1.44	0.19	0.006	<10	3	<10	
23909	12.7	4.4	2560	213	<2	63	20	85	3.83	<10	32	<1	<10	1.99	10	66	2.37	0.13	1.64	0.16	0.004	<10	3	<10	
23910	1.0	3.0	8930	280	<2	>10000	9	40	0.49	<10	10	<1	<10	0.38	540	31	33.1	0.11	0.18	0.07	0.048	<10	3	<10	
23911	0.6	0.8	180	256	<2	47	6	59	2.88	<10	189	<1	<10	0.63	9	96	2.81	0.45	1.95	0.14	0.006	<10	6	<10	
23912	3.9	3.2	1140	168	<2	122	14	133	2.35	<10	87	<1	<10	0.96	22	84	2.44	0.29	1.42	0.13	0.034	<10	3	<10	
23913	1.2	1.1	440	227	<2	55	7	91	4.05	<10	224	<1	<10	1.38	16	79	4.57	0.77	2.27	0.19	0.028	<10	8	<10	
23914	2.4	2.2	1320	203	<2	96	11	123	4.85	<10	177	<1	<10	2.04	24	67	4.98	0.87	2.27	0.26	0.035	<10	8	<10	
23915	1.0	1.1	514	161	<2	41	13	62	4.11	<10	83	<1	<10	2.07	15	69	3.36	0.46	1.55	0.39	0.045	<10	5	<10	
23916	8.5	2.3	2420	144	<2	108	29	78	3.32	<10	95	<1	<10	1.05	22	86	3.89	0.55	1.84	0.27	0.042	<10	5	<10	
23917	0.8	0.9	356	148	<2	79	14	44	3.22	<10	84	<1	<10	1.64	18	64	3.82	0.39	1.57	0.26	0.075	<10	6	<10	
23918	0.2	0.8	196	149	<2	37	7	33	4.18	<10	116	<1	<10	1.58	23	75	4.29	0.55	2.01	0.32	0.088	<10	8	<10	
23919	0.9	1.2	620	389	<2	141	7	35	4.62	<10	66	<1	<10	1.48	45	51	6.59	0.32	3.25	0.16	0.078	<10	11	<10	
23920	<0.2	<0.5	6	9	<2	1	<2	2	0.04	<10	7	<1	<10	0.04	<1	2	0.06	0.01	0.02	<0.01	0.004	<10	<1	<10	
23921	1.1	1.9	537	362	<2	170	10	87	4.20	<10	57	<1	<10	1.20	38	84	5.93	0.30	3.47	0.13	0.067	<10	11	<10	
23922	0.4	1.6	348	315	<2	239	9	112	4.21	<10	51	<1	<10	0.85	22	86	5.41	0.30	3.65	0.05	0.036	<10	10	<10	

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
23623	7.0	5.1	534.0	277	< 2	806	19	276	3.75	< 10	38	< 1	< 10	1.05	100	77	10.0	0.34	3.43	0.12	0.016	< 10	6	< 10
23624	3.6	3.6	2400	98	< 2	1180	23	272	1.64	< 10	28	< 1	< 10	0.31	89	94	10.2	0.49	1.45	0.11	0.016	< 10	5	< 10
23625	4.9	9.0	3320	155	< 2	1650	64	552	2.30	< 10	22	< 1	< 10	0.56	95	88	12.8	0.29	1.35	0.15	0.028	< 10	4	< 10
23626	14.7	12.3	8990	175	< 2	5900	138	656	1.18	< 10	12	< 1	12	0.20	270	48	35.7	0.11	0.58	0.04	0.010	< 10	1	12
23627	11.6	38.8	5200	209	< 2	5570	219	1410	1.71	< 10	14	< 1	24	0.23	219	67	34.0	0.08	1.24	0.02	0.008	< 10	3	16
23628	33.8	27.5	> 10000	371	< 2	2280	139	1270	2.58	< 10	18	< 1	14	0.61	187	66	22.2	0.25	2.37	0.02	0.029	< 10	8	17
23629	16.7	31.2	> 10000	336	< 2	3680	72	734	2.16	< 10	14	< 1	< 10	0.43	649	100	26.6	0.16	1.57	0.02	0.022	< 10	5	13
23630	< 0.2	< 0.5	22	16	< 2	6	< 2	2	0.04	< 10	8	< 1	< 10	0.15	1	2	0.09	0.01	0.01	< 0.01	0.003	< 10	< 1	< 10
23631	1.6	4.1	966	356	< 2	119	99	272	2.26	< 10	178	< 1	< 10	0.50	45	43	4.46	0.58	1.70	0.07	0.036	< 10	9	< 10
23632	0.5	1.6	301	423	< 2	36	18	148	3.06	< 10	209	< 1	< 10	0.30	17	73	4.86	0.76	2.15	0.06	0.077	< 10	7	< 10
23633	< 0.2	1.0	20	498	< 2	19	3	77	3.58	< 10	154	< 1	< 10	0.51	15	48	4.88	0.83	3.09	0.05	0.078	< 10	10	< 10
23634	< 0.2	1.1	66	438	< 2	13	3	53	3.33	< 10	184	< 1	< 10	0.36	17	56	4.77	0.61	2.73	0.04	0.082	< 10	6	< 10
23635	< 0.2	1.0	154	499	< 2	8	3	59	3.50	< 10	201	< 1	< 10	0.31	19	44	5.49	0.89	2.69	0.04	0.083	< 10	10	< 10
23636	< 0.2	1.2	47	555	< 2	10	3	73	3.78	< 10	187	< 1	< 10	0.42	17	81	5.59	0.73	2.52	0.07	0.075	< 10	9	< 10
23637	< 0.2	1.1	53	522	< 2	7	3	71	3.68	< 10	250	< 1	< 10	0.32	19	36	5.64	0.78	2.53	0.06	0.082	< 10	11	< 10
23638	< 0.2	1.2	46	524	< 2	9	< 2	79	3.60	< 10	182	< 1	< 10	0.30	18	41	5.94	0.62	2.69	0.04	0.083	< 10	10	< 10
23639	< 0.2	1.4	26	631	< 2	7	< 2	93	3.74	< 10	117	< 1	< 10	0.33	19	34	5.28	0.44	3.25	0.03	0.084	< 10	9	< 10
23640	< 0.2	< 0.5	4	10	< 2	< 1	< 2	2	0.04	< 10	8	< 1	< 10	0.04	< 1	< 2	0.06	0.01	0.02	< 0.01	0.004	< 10	< 1	< 10
23641	< 0.2	1.1	76	854	< 2	6	< 2	111	3.91	< 10	169	< 1	< 10	0.54	17	33	5.92	0.61	3.44	0.05	0.078	< 10	10	< 10
23642	< 0.2	1.4	22	652	< 2	7	< 2	103	3.54	< 10	133	< 1	< 10	0.42	15	45	5.10	0.50	3.54	0.03	0.076	< 10	10	< 10
23643	< 0.2	1.2	188	579	< 2	5	< 2	111	2.48	< 10	48	< 1	< 10	0.17	6	68	5.11	0.27	1.89	0.02	0.008	< 10	2	< 10
23644	1.7	2.3	3950	326	4	10	3	292	1.75	< 10	28	< 1	< 10	0.21	28	56	15.6	0.49	1.40	0.01	0.030	< 10	1	< 10
23645	< 0.2	< 0.5	51	140	< 2	15	< 2	20	0.64	< 10	13	< 1	< 10	0.34	6	165	1.32	0.03	0.58	0.02	0.004	< 10	2	< 10
23646	< 0.2	0.9	63	430	< 2	23	4	61	2.95	< 10	18	2	< 10	0.08	8	86	4.21	0.06	3.14	0.01	0.007	< 10	3	< 10
23647	< 0.2	1.6	36	807	< 2	23	3	115	4.80	15	15	< 1	< 10	0.28	25	26	9.41	0.05	5.01	< 0.01	0.105	< 10	6	< 10
23648	< 0.2	0.8	111	370	< 2	40	3	69	2.13	< 10	9	< 1	< 10	2.08	22	91	3.67	0.04	1.36	0.10	0.044	< 10	8	< 10
23649	< 0.2	< 0.5	179	111	< 2	51	3	15	4.82	< 10	15	< 1	< 10	2.88	10	147	1.19	0.03	0.82	0.50	0.013	< 10	2	< 10
23650	0.7	0.7	1440	287	< 2	1420	6	28	5.60	< 10	21	< 1	< 10	2.82	53	162	3.54	0.02	3.23	0.33	0.003	< 10	3	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23671	21	0.09	161	< 10	2	2	0.961
23672	42	0.04	43	< 10	2	1	0.799
23673	32	0.07	163	< 10	< 1	1	0.395
23674	31	0.08	202	< 10	< 1	1	0.470
23675	31	0.06	147	< 10	< 1	< 1	0.273
23676	22	0.03	122	< 10	< 1	1	0.510
23677	18	0.07	172	< 10	< 1	1	0.743
23678	24	0.05	186	< 10	< 1	< 1	0.466
23679	8	0.05	206	< 10	< 1	2	2.083
23680	65	0.02	33	< 10	< 1	1	0.473
23681	8	0.07	185	< 10	< 1	1	0.877
23682	5	0.10	53	< 10	2	6	0.020
23683	9	0.09	186	< 10	< 1	1	0.390
23684	24	0.05	110	< 10	< 1	1	0.794
23685	22	0.02	82	< 10	1	1	0.984
23686	27	0.03	62	< 10	< 1	< 1	0.048
23687	25	0.03	78	< 10	1	< 1	0.400
23688	12	0.04	83	< 10	2	< 1	0.737
23689	34	0.02	58	< 10	1	< 1	0.860
23690	1	< 0.01	< 1	< 10	< 1	3	0.018
23691	34	0.03	107	< 10	1	< 1	0.333
23692	19	0.02	113	< 10	1	< 1	0.155
23693	9	< 0.01	48	< 10	1	< 1	0.057
23694	8	0.02	85	< 10	3	2	0.792
23695	9	0.02	26	< 10	2	1	0.590
23696	21	0.03	37	< 10	2	2	1.409
23697	18	0.03	26	< 10	< 1	< 1	0.727
23698	18	0.03	43	< 10	< 1	1	0.810
23699	33	0.03	36	< 10	< 1	< 1	0.254
23900	15	0.07	60	< 10	15	16	5.431
23901	49	0.04	67	< 10	1	< 1	0.742
23902	15	0.03	30	< 10	3	3	1.756
23903	15	0.03	26	< 10	3	2	1.104
23904	7	0.03	4	474	7	1	0.463
23905	20	0.04	8	122	5	1	0.871
23906	38	0.05	11	< 10	4	1	0.191
23907	42	0.03	8	< 10	3	1	0.886
23908	41	0.04	13	< 10	3	2	1.040
23909	28	0.04	16	< 10	3	2	0.393
23910	14	0.08	82	< 10	16	17	7.034
23911	15	0.08	21	< 10	4	4	0.062
23912	14	0.05	22	< 10	5	3	0.506
23913	23	0.13	74	< 10	6	2	0.152
23914	28	0.14	64	< 10	6	3	0.636
23915	31	0.10	85	< 10	7	2	0.279
23916	21	0.13	62	< 10	5	2	0.525
23917	29	0.10	110	< 10	8	2	0.764
23918	30	0.11	86	< 10	7	2	0.086
23919	19	0.13	126	< 10	14	2	0.528
23920	1	< 0.01	< 1	< 10	< 1	4	0.018
23921	20	0.10	114	< 10	9	2	0.271
23922	11	0.06	79	< 10	8	2	0.104

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23623	12	0.08	104	< 10	4	3	2.527
23624	7	0.09	110	< 10	2	4	3.230
23625	13	0.07	119	< 10	3	4	4.116
23626	4	0.04	94	< 10	2	9	5.579
23627	5	0.03	116	14	2	8	5.408
23628	8	0.05	97	< 10	8	6	5.725
23629	5	0.06	113	10	4	7	7.408
23630	2	< 0.01	< 1	< 10	< 1	4	0.023
23631	5	0.17	42	< 10	10	6	0.694
23632	5	0.12	67	< 10	8	5	0.764
23633	9	0.11	86	< 10	9	4	0.045
23634	6	0.11	65	< 10	12	5	0.034
23635	6	0.12	72	< 10	8	5	0.033
23636	9	0.13	65	< 10	6	6	0.023
23637	7	0.14	78	< 10	6	4	0.016
23638	7	0.09	72	< 10	7	5	0.018
23639	6	0.08	72	< 10	11	5	0.060
23640	1	< 0.01	< 1	< 10	< 1	3	0.018
23641	14	0.11	73	< 10	10	5	0.026
23642	5	0.07	68	< 10	11	5	0.024
23643	4	0.04	5	< 10	21	14	0.078
23644	3	0.03	8	< 10	10	9	3.589
23645	3	0.05	30	< 10	2	4	0.049
23646	2	< 0.01	20	< 10	13	5	0.100
23647	2	0.02	49	< 10	9	5	1.173
23648	19	0.07	89	< 10	6	2	0.339
23649	59	0.03	19	< 10	3	1	0.089
23650	65	0.02	33	< 10	< 1	1	0.476

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	23.3	3.4	1060	700	13	21	496	558	0.52	301	360	<1	1280	0.78	11	6	22.1	0.03	0.14	0.09	0.031	83	1	25
GXR-1 Cert	31.0	3.3	1110	852	18	41	730	760	3.52	427	750	1	1380	0.96	8	12	23.6	0.05	0.22	0.05	0.065	122	2	54
GXR-4 Meas	3.3	1.0	6300	141	332	41	44	59	2.8C	98	36	1	20	0.95	17	56	3.45	1.36	1.7C	0.11	0.119	<10	7	<10
GXR-4 Cert	4.0	0.9	6620	156	310	42	62	73	7.2C	98	1640	2	16	1.01	15	64	3.09	4.01	1.65	0.65	0.120	5	8	6
GXR-2 Meas	17.8	4.7	80	1020	<2	16	736	540	3.53	15	1280	1	<10	0.84	11	25	2.09	0.53	0.53	0.28	0.054	31	5	<10
GXR-2 Cert	17.0	4.1	78	1037	2	21	890	530	16.5C	25	2240	2	1	0.93	9	35	1.86	1.37	0.85	0.56	0.105	49	7	2
GXR-6 Meas	0.6	1.5	69	1030	<2	24	92	118	7.15	227	890	<1	<10	0.16	16	81	5.30	0.85	0.41	0.15	0.031	<10	22	<10
GXR-6 Cert	1.3	1.0	66	1007	2	27	101	118	17.7C	330	1300	1	0	0.18	14	95	5.58	1.87	0.51	0.10	0.035	4	28	2
OREAS 13P Meas			2690			2270											5.90							
OREAS 13P Cert			2500			2261											7.58							
23883 Ong	0.5	1.0	234	105	<2	232	<2	39	2.14	<10	73	<1	<10	0.28	31	180	4.07	0.27	1.99	0.09	0.008	<10	5	<10
23883 Dup	0.4	1.0	232	99	<2	221	3	40	2.05	<10	72	<1	<10	0.27	31	155	4.00	0.26	1.85	0.06	0.008	<10	5	<10
23867 Ong	60.1	12.7	5580	314	<2	144	140	82	2.66	<10	5	<1	26	1.43	25	46	2.69	<0.01	1.37	0.04	0.003	<10	3	<10
23867 Dup	49.1	12.5	5410	311	<2	145	139	80	2.47	<10	5	<1	23	1.40	26	46	2.67	<0.01	1.38	0.04	0.003	<10	3	<10
23510 Ong	1.0	3.0	9060	267	<2	>10000	10	41	0.5C	<10	8	<1	<10	0.37	544	32	33.8	0.11	0.16	0.07	0.047	<10	3	<10
23510 Dup	0.9	3.0	8900	253	<2	>10000	9	40	0.45	<10	13	<1	<10	0.36	535	31	32.4	0.11	0.15	0.07	0.045	<10	3	<10
23624 Ong	3.7	3.6	2440	98	<2	1170	27	272	1.85	<10	25	<1	<10	0.30	87	94	10.3	0.50	1.5C	0.11	0.016	<10	5	<10
23624 Dup	3.6	3.9	2360	98	<2	1190	19	273	1.92	<10	31	<1	<10	0.31	90	94	10.1	0.49	1.48	0.11	0.016	<10	5	<10
23947 Ong	<0.2	1.5	38	811	<2	23	3	115	4.83	13	15	<1	<10	0.29	23	29	9.51	0.05	5.03	<0.01	0.106	<10	8	<10
23947 Dup	<0.2	1.7	37	803	<2	23	3	116	4.77	16	15	<1	<10	0.28	25	26	9.30	0.05	4.98	<0.01	0.103	<10	8	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	145		89	113	21	17	0.166
GXR-1 Cert	275		80	164	32	38	0.257
GXR-4 Meas	70		86	13	12	10	1.845
GXR-4 Cert	221		87	31	14	186	1.770
GXR-2 Meas	93		48	< 10	11	13	0.035
GXR-2 Cert	180		52	2	17	289	0.031
GXR-6 Meas	31		177	< 10	6	13	0.015
GXR-6 Cert	35		186	2	14	110	0.016
OREAS 13P Meas							
OREAS 13P Cert							
23883 Orig	9	0.05	187	< 10	< 1	1	0.390
23883 Dup	9	0.05	184	< 10	< 1	1	0.391
23897 Orig	18	0.03	26	< 10	< 1	1	0.714
23897 Dup	17	0.03	26	< 10	< 1	< 1	0.740
23910 Orig	15	0.05	82	< 10	16	18	7.902
23910 Dup	14	0.05	61	< 10	15	17	6.166
23924 Orig	7	0.05	112	< 10	2	4	3.248
23924 Dup	7	0.05	108	< 10	2	4	3.211
23947 Orig	2	0.02	48	< 10	10	5	1.173
23947 Dup	2	0.02	49	< 10	9	5	1.172
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 02-Jun-08
Invoice No.: A08-2864
Invoice Date: 12-Jun-08
Your Reference: DOSSIER 22332

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

108 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2864**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
23695	< 0.2	< 0.5	157	57	< 2	61	< 2	5	3.56	< 10	17	< 1	< 10	2.69	10	96	0.65	0.04	0.54	0.34	0.012	< 10	2	< 10
23666	< 0.2	< 0.5	226	64	< 2	67	< 2	8	3.63	< 10	54	< 1	< 10	2.77	11	179	0.88	0.16	0.83	0.39	0.013	< 10	2	< 10
23997	< 0.2	< 0.5	25	68	< 2	55	< 2	10	3.75	< 10	82	< 1	< 10	2.51	11	214	1.02	0.22	1.05	0.35	0.015	< 10	2	< 10
23698	< 0.2	< 0.5	84	72	< 2	59	< 2	6	3.33	< 10	24	< 1	< 10	2.52	11	91	0.76	0.03	0.61	0.37	0.009	< 10	2	< 10
23699	< 0.2	< 0.5	110	100	< 2	65	< 2	6	4.14	< 10	36	< 1	< 10	2.98	13	124	0.93	0.11	0.69	0.43	0.016	< 10	2	< 10
24000	0.9	1.0	8920	247	< 2	> 10000	16	39	0.47	< 10	5	< 1	< 10	0.35	555	31	31.9	0.11	0.15	0.06	0.044	< 10	3	< 10
24001	< 0.2	< 0.5	53	52	< 2	81	< 2	10	5.05	< 10	68	< 1	< 10	3.46	14	187	1.25	0.40	1.28	0.29	0.013	< 10	1	< 10
24002	< 0.2	< 0.5	301	55	< 2	66	< 2	6	4.22	< 10	16	< 1	< 10	3.17	8	98	0.63	0.06	0.65	0.41	0.014	< 10	2	< 10
24003	< 0.2	< 0.5	64	62	< 2	67	< 2	7	4.47	< 10	48	< 1	< 10	3.12	11	219	0.97	0.23	1.01	0.40	0.018	< 10	2	< 10
24004	< 0.2	< 0.5	104	73	< 2	67	< 2	7	4.05	< 10	17	< 1	< 10	3.04	11	116	0.82	0.04	0.63	0.47	0.016	< 10	3	< 10
24005	< 0.2	< 0.5	93	66	< 2	33	< 2	4	3.81	< 10	11	< 1	< 10	2.78	8	79	0.58	0.02	0.48	0.43	0.020	< 10	2	< 10
24006	< 0.2	< 0.5	69	62	< 2	49	< 2	6	4.20	< 10	33	< 1	< 10	3.22	7	65	0.68	0.07	0.53	0.32	0.033	< 10	1	< 10
24007	< 0.2	< 0.5	27	41	< 2	33	< 2	6	4.00	< 10	33	< 1	< 10	2.80	7	129	0.63	0.14	0.63	0.58	0.012	< 10	1	< 10
24008	< 0.2	< 0.5	43	55	< 2	24	< 2	4	4.32	< 10	18	< 1	< 10	3.15	5	107	0.57	0.04	0.53	0.48	0.009	< 10	2	< 10
24009	< 0.2	< 0.5	31	58	< 2	23	< 2	4	3.94	< 10	14	< 1	< 10	2.91	5	94	0.52	0.03	0.48	0.44	0.008	< 10	2	< 10
24010	4.2	1.1	9070	246	< 2	> 10000	17	37	0.48	< 10	8	< 1	< 10	0.35	652	31	31.9	0.11	0.15	0.06	0.044	< 10	3	< 10
24011	< 0.2	< 0.5	43	118	< 2	32	< 2	3	3.85	< 10	4	< 1	< 10	3.01	4	93	0.54	0.03	0.46	0.41	0.015	< 10	2	< 10
24012	< 0.2	< 0.5	6	63	< 2	30	< 2	6	5.07	< 10	36	< 1	< 10	3.69	6	141	0.70	0.09	0.63	0.48	0.007	< 10	2	< 10
24013	< 0.2	< 0.5	11	62	< 2	30	< 2	5	3.80	< 10	21	< 1	< 10	2.77	5	97	0.58	0.04	0.50	0.43	0.010	< 10	2	< 10
24014	< 0.2	< 0.5	217	133	< 2	143	3	15	7.65	< 10	59	< 1	< 10	4.86	11	66	1.70	0.11	1.21	0.49	0.011	< 10	2	< 10
24015	< 0.2	< 0.5	100	52	< 2	61	2	7	9.20	< 10	59	< 1	< 10	6.35	5	39	0.78	0.02	0.58	0.54	0.009	< 10	1	< 10
24016	< 0.2	< 0.5	25	56	< 2	22	3	5	7.71	< 10	16	< 1	< 10	5.47	3	35	0.49	0.02	0.38	0.55	0.008	< 10	1	< 10
24017	1.0	0.7	406	123	< 2	887	21	18	4.59	< 10	50	< 1	< 10	2.76	54	185	2.56	0.30	2.02	0.23	0.008	< 10	1	< 10
24018	16.9	9.9	3900	111	< 2	636	72	34	4.61	< 10	7	< 1	22	3.44	54	40	2.96	0.01	0.67	0.34	0.003	< 10	3	< 10
24019	16.5	11.8	2900	83	< 2	340	142	35	4.65	< 10	8	< 1	13	3.39	39	21	1.79	< 0.01	0.42	0.34	0.002	< 10	1	< 10
24020	< 0.2	< 0.5	3	12	< 2	1	< 2	2	0.03	< 10	8	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	< 0.001	0.004	< 10	< 1	< 10
24021	43.3	32.4	7500	143	< 2	302	417	92	4.44	< 10	9	< 1	24	3.20	38	40	2.24	< 0.01	0.75	0.31	0.004	< 10	2	< 10
24022	26.1	20.9	4710	147	< 2	357	247	63	4.65	< 10	10	< 1	< 10	3.42	43	42	2.40	< 0.01	0.62	0.41	0.010	< 10	2	< 10
24023	34.0	25.5	4830	131	< 2	358	507	66	5.30	< 10	11	< 1	33	3.89	43	63	2.14	< 0.01	0.75	0.35	0.006	< 10	2	< 10
24024	46.2	44.4	8030	157	< 2	190	738	95	4.31	< 10	9	< 1	44	3.09	29	41	2.16	< 0.01	0.65	0.19	0.005	< 10	2	< 10
24025	61.0	36.4	7120	149	< 2	200	769	96	4.32	< 10	10	< 1	68	3.14	32	47	2.23	< 0.01	0.62	0.30	0.014	< 10	2	< 10
24026	45.1	33.9	7590	111	< 2	339	365	135	4.62	< 10	8	< 1	39	3.44	44	22	2.50	< 0.01	0.54	0.32	0.005	< 10	1	< 10
24027	38.3	28.1	7160	118	< 2	255	83	4.65	< 10	8	< 1	24	3.66	35	32	2.29	< 0.01	0.64	0.32	0.019	< 10	2	< 10	
24028	14.1	12.5	2670	108	< 2	97	119	55	5.55	< 10	12	< 1	< 10	3.93	17	54	1.33	0.02	0.63	0.50	0.022	< 10	1	< 10
24029	3.8	3.3	1030	57	< 2	129	61	21	5.45	< 10	23	< 1	< 10	3.79	26	137	1.32	0.07	0.50	0.54	0.016	< 10	< 1	< 10
24030	< 0.2	< 0.5	6	10	< 2	1	< 2	< 1	0.03	< 10	7	< 1	< 10	0.15	< 1	< 2	0.03	0.01	0.01	< 0.001	0.003	< 10	< 1	< 10
24031	1.5	1.3	437	81	< 2	121	36	31	4.47	< 10	83	< 1	< 10	2.40	21	227	1.92	0.40	1.63	0.44	0.008	< 10	3	< 10
24032	3.8	1.9	1220	91	< 2	155	8	44	2.44	< 10	82	< 1	< 10	0.22	35	117	2.79	0.33	1.81	0.09	0.007	< 10	3	< 10
24033	1.8	1.0	1160	71	< 2	674	26	25	3.27	< 10	29	< 1	< 10	1.54	489	96	6.40	0.27	1.21	0.30	0.006	< 10	2	< 10
24034	3.0	2.7	1830	115	< 2	597	25	53	4.22	< 10	78	< 1	< 10	1.74	75	154	4.74	0.48	1.99	0.30	0.013	< 10	4	< 10
24035	2.1	0.9	1370	117	< 2	1360	9	49	3.03	< 10	41	< 1	< 10	0.13	159	62	6.03	0.65	2.55	0.07	0.004	< 10	7	< 10
24036	1.2	1.3	705	99	< 2	436	5	39	2.61	< 10	15	< 1	< 10	0.15	61	69	3.26	0.06	1.55	0.07	0.009	< 10	2	< 10
24037	1.3	0.8	795	75	< 2	577	5	30	1.96	< 10	28	< 1	< 10	0.14	56	44	3.63	0.11	1.34	0.05	0.009	< 10	2	< 10
24038	0.9	0.7	404	105	< 2	264	11	32	2.42	< 10	14	< 1	< 10	0.27	35	60	2.17	0.06	1.53	0.06	0.012	< 10	2	< 10
24039	2.0	2.1	506	107	< 2	373	4	44	2.65	< 10	19	< 1	< 10	0.16	44	60	2.74	0.41	2.05	0.08	0.011	< 10	3	< 10
24040	< 0.2	< 0.5	4	11	< 2	1	< 2	2	0.03	< 10	7	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	< 0.001	0.004	< 10	< 1	< 10
24041	2.6	0.8	1620	158	< 2	1400	8	80	3.88	< 10	41	< 1	< 10	0.21	120	61	9.71	1.75	4.28	0.09	0.012	< 10	10	29
24042	5.1	0.8	3170	219	< 2	2380	16	110	4.88	< 10	31	< 1	< 10	0.29	198	65	15.5	2.38	5.95	0.12	0.033	< 10	22	50
24043	2.0	0.7	1340	574	< 2	1040	19	256	5.21	< 10	50	3	< 10	0.38	111	77	10.9	2.58	5.55	0.16	0.040	< 10	18	98
24044	1.7	< 0.5	581	173	< 2	379	8	59	1.39	< 10	11	4	< 10	0.30	40	72	2.95	0.52	0.94	0.04	0.028	< 10	3	32
24045	3.0	0.9	2070	456	< 2	1510	12	155	3.70	< 10	47	2	< 10	0.95	121	55	12.0	1.75	3.95	0.10	0.011	< 10	11	41
24046	4.1	0.7	2650	427	< 2	1830	12	142	5.44	< 10	42	1	< 10	0.14	115	62	14.4	2.64	6.06	0.10	0.023	<		

Activation Laboratories Ltd. Report: A08-2864

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
24047	6.4	0.7	3520	253	< 2	2220	14	89	2.78	< 10	21	1	< 10	0.18	211	99	13.7	1.42	3.14	0.07	0.019	< 10	9	27	
24048	2.9	0.9	1370	496	< 2	1160	16	168	4.83	< 10	27	5	< 10	0.30	116	70	11.1	1.98	5.16	0.09	0.035	< 10	13	40	
24049	> 130	168	> 10000	285	< 2	209	> 5000	8890	2.03	< 10	37	< 1	< 228	0.99	40	112	4.40	0.28	1.42	0.04	0.014	14	5	11	
24050	1.0	2.4	8780	266	< 2	> 10000	7	42	0.50	< 10	5	< 1	< 10	0.37	681	31	33.0	0.11	0.16	0.07	0.046	< 10	3	< 10	
24051	52.8	50.5	> 10000	530	5	400	599	2410	3.43	16	53	< 1	< 10	1.69	54	117	5.64	0.42	1.70	0.16	0.016	< 10	8	< 10	
24052	32.2	23.0	7190	444	< 2	555	362	846	3.55	< 10	52	< 1	11	149	56	46	7.76	0.52	2.08	0.22	0.015	< 10	5	< 10	
24053	21.7	17.4	4280	362	< 2	535	272	770	3.60	< 10	46	< 1	< 10	0.92	40	76	7.33	0.87	2.38	0.20	0.012	< 10	6	< 10	
24054	23.5	14.0	5790	449	< 2	831	197	471	4.33	< 10	33	< 1	12	2.11	54	60	9.21	0.51	1.84	0.14	0.012	< 10	4	< 10	
24055	16.3	8.9	4920	169	< 2	1460	71	353	2.64	< 10	25	< 1	< 10	0.63	98	48	12.8	0.72	1.81	0.16	0.017	< 10	4	< 10	
24056	10.1	6.6	3020	269	< 2	467	79	285	4.02	< 10	65	< 1	< 10	1.41	46	66	6.97	0.70	2.24	0.23	0.019	< 10	6	< 10	
24057	1.3	1.0	696	231	< 2	49	14	248	3.10	< 10	210	< 1	< 10	0.58	31	51	7.24	1.09	2.25	0.17	0.028	< 10	7	< 10	
24058	< 0.2	< 0.5	63	136	< 2	29	15	96	2.63	< 10	164	< 1	< 10	1.35	15	73	5.04	0.64	1.44	0.33	0.106	< 10	7	< 10	
24059	1.0	< 0.5	439	214	< 2	31	11	34	2.12	< 10	62	< 1	< 10	1.17	14	86	3.66	0.23	0.98	0.22	0.104	< 10	4	< 10	
24060	1.0	1.2	9060	277	< 2	> 10000	18	41	0.50	< 10	5	< 1	< 10	0.38	593	33	33.7	0.11	0.18	0.07	0.047	< 10	4	< 10	
24061	22.6	11.4	4710	417	< 2	115	54	329	2.42	< 10	20	< 1	18	1.08	18	50	3.56	0.07	1.38	0.13	0.019	< 10	2	< 10	
24062	7.5	2.7	2210	236	< 2	39	28	78	3.02	< 10	27	< 1	< 10	1.94	10	67	2.72	0.17	0.99	0.28	0.039	< 10	2	< 10	
24063	13.7	5.8	3040	290	< 2	182	61	102	3.18	< 10	109	< 1	< 10	1.07	19	82	4.95	0.63	2.12	0.13	0.018	< 10	4	< 10	
24064	9.6	3.9	1630	136	< 2	69	80	71	3.45	< 10	46	< 1	< 10	0.43	14	113	2.60	0.29	2.21	0.11	0.031	< 10	4	< 10	
24065	3.3	1.3	438	123	< 2	45	53	58	2.98	< 10	42	< 1	< 10	0.21	12	108	2.03	0.27	2.07	0.05	0.031	< 10	4	< 10	
24066	23.4	6.8	2510	135	< 2	86	172	82	3.03	< 10	33	< 1	50	0.20	16	96	2.52	0.20	2.10	0.06	0.020	< 10	4	< 10	
24067	39.2	11.1	4030	107	< 2	139	387	96	2.89	< 10	66	< 1	82	0.32	24	80	2.97	0.32	1.92	0.09	0.024	< 10	3	< 10	
24068	7.1	2.5	1530	110	< 2	62	37	69	3.07	< 10	100	< 1	< 10	0.70	14	92	3.05	0.50	1.68	0.20	0.040	< 10	4	< 10	
24069	20.0	7.6	2850	131	< 2	201	212	87	4.40	< 10	128	< 1	< 10	1.30	49	86	4.24	0.62	2.14	0.30	0.018	< 10	5	< 10	
24070	< 0.2	< 0.5	5	11	< 2	< 1	0.04	< 10	8	< 1	< 10	0.16	< 1	< 2	0.03	0.01	0.01	0.01	< 0.001	0.003	< 10	< 1	< 10		
24071	17.8	5.5	3590	143	< 2	225	99	95	5.08	< 10	122	< 1	< 10	2.27	27	78	5.05	0.87	1.98	0.30	0.058	< 10	6	< 10	
24072	40.9	9.6	> 10000	73	< 2	2160	11	170	0.21	< 10	6	< 1	< 10	0.40	240	70	13.9	0.01	0.32	0.01	0.044	< 10	< 1	< 10	
24073	24.2	6.2	5920	83	< 2	490	38	98	2.31	< 10	20	< 1	< 10	0.92	54	88	8.30	0.11	0.74	0.18	0.030	< 10	< 1	< 10	
24074	27.4	5.3	7150	105	< 2	1160	93	128	4.31	< 10	34	< 1	< 10	1.89	67	69	11.0	0.79	1.60	0.46	0.091	< 10	6	< 10	
24075	14.8	3.4	3630	127	< 2	1430	67	119	3.29	< 10	19	< 1	< 10	0.74	286	184	12.4	1.03	2.07	0.24	0.013	< 10	6	< 10	
24076	49.4	16.5	> 10000	85	2	3940	47	193	1.65	< 10	13	< 1	< 10	0.92	178	42	24.2	0.20	0.88	0.09	0.020	< 10	2	< 10	
24077	22.7	6.6	6480	129	< 2	769	20	100	1.34	< 10	43	< 1	< 10	0.57	131	66	9.66	0.39	1.14	0.06	0.047	< 10	1	< 10	
24078	8.5	3.1	1870	111	< 2	115	32	77	3.11	< 10	112	< 1	< 10	0.81	15	106	2.84	0.56	1.90	0.18	0.041	< 10	4	< 10	
24079	6.4	3.1	2150	112	< 2	101	28	75	3.16	< 10	103	< 1	< 10	0.61	14	106	2.72	0.52	1.83	0.16	0.040	< 10	4	< 10	
24080	0.5	< 0.5	1390	284	< 2	1420	19	26	5.76	< 10	21	< 1	< 10	2.78	57	153	3.55	0.02	3.24	0.32	0.002	< 10	3	< 10	
24081	4.9	2.2	1340	206	< 2	151	42	90	4.97	< 10	218	< 1	< 10	1.51	36	94	5.96	1.37	2.88	0.21	0.031	< 10	12	< 10	
24082	0.9	< 0.5	189	268	2	66	11	44	3.61	< 10	220	< 1	< 10	0.85	11	101	3.35	0.82	1.77	0.16	0.032	< 10	10	< 10	
24083	< 0.2	< 0.5	30	406	< 2	84	6	52	3.68	< 10	148	< 1	< 10	0.80	24	73	3.89	1.03	2.44	0.10	0.017	< 10	6	< 10	
24084	< 0.2	< 0.5	29	291	< 2	17	4	46	3.61	< 10	231	< 1	< 10	0.62	10	103	3.40	1.07	1.95	0.18	0.023	< 10	9	< 10	
24085	< 0.2	< 0.5	16	252	< 2	8	9	42	3.16	< 10	155	< 1	< 10	0.60	5	91	2.62	0.90	1.63	0.16	0.021	< 10	6	< 10	
24086	< 0.2	< 0.5	6	377	4	27	5	49	3.83	< 10	233	< 1	< 10	0.88	11	114	2.96	1.00	1.87	0.18	0.022	< 10	6	< 10	
24087	< 0.2	< 0.5	7	357	2	34	7	54	3.67	< 10	182	< 1	< 10	1.05	11	94	3.48	0.79	2.07	0.15	0.013	< 10	8	< 10	
24088	< 0.2	< 0.5	6	375	3	20	4	41	2.74	< 10	140	< 1	< 10	1.70	10	103	2.72	0.57	1.61	0.11	0.017	< 10	6	< 10	
24089	< 0.2	< 0.5	12	369	< 2	16	5	58	2.76	< 10	287	< 1	< 10	0.61	11	112	3.45	0.95	1.84	0.10	0.029	< 10	9	< 10	
24090	< 0.2	< 0.5	3	16	< 2	< 1	< 2	< 1	0.03	< 10	8	< 1	< 10	0.16	< 1	2	0.03	0.01	0.01	< 0.001	0.003	< 10	< 1	< 10	
24091	< 0.2	< 0.5	16	393	6	12	5	65	2.63	< 10	262	< 1	< 10	0.79	11	72	3.66	0.98	1.75	0.09	0.020	< 10	5	< 10	
24092	0.6	< 0.5	211	448	< 2	61	14	64	2.64	< 10	15	< 1	< 10	2.33	24	135	3.31	0.06	1.43	0.16	0.032	< 10	7	< 10	
24093	0.5	< 0.5	176	305	< 2	66	16	67	2.82	< 10	54	< 1	< 10	1.93	22	129	2.92	0.66	1.38	0.28	0.040	< 10	6	< 10	
24094	1.2	< 0.5	295	304	< 2	49	18	78	2.52	< 10	114	< 1	< 10	1.71	19	113	2.98	0.38	1.38	0.21	0.084	< 10	8	< 10	
24095	4.1	0.5	466	322	< 2	39	31	55	3.83	< 10	32	< 1	< 10	4.7	3.21	14	66	2.15	0.05	0.85	0.36	0.032	< 10	6	< 10
24096	3.0	0.7	411	326	< 2	43	32	35	4.17	< 10	14	< 1	< 10	3.52	16	81	2.21	0.04	0.95	0.37	0.031	< 10	7	< 10	
24097	3.3	0.5	801	329	< 2	53	29	34	4.47	< 10	8	< 1	< 10	3.88	18	82	2.37	0.03	0.95	0.30	0.031	< 10	7	< 10	
24098	2.0	0.6	623	317	< 2	64	20	49	4.61	< 10	37	< 1	< 10	3.34	22	102	2.91	0.31	1.34	0.26					

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24088	0.5	< 0.5	276	363	< 2	70	12	61	4.34	< 10	88	< 1	< 10	2.93	27	129	3.97	0.62	1.91	0.20	0.029	< 10	7	< 10
24100	0.9	1.2	9090	250	< 2	> 10000	18	40	0.48	< 10	8	< 1	< 10	0.36	681	31	32.6	0.11	0.16	0.06	0.046	< 10	3	< 10
24101	0.4	0.7	191	429	< 2	67	11	49	2.30	< 10	13	1	< 10	2.15	23	111	3.01	0.11	1.45	0.11	0.042	< 10	7	< 10
24102	0.3	< 0.5	123	476	< 2	81	11	84	3.28	< 10	84	< 1	< 10	1.55	33	191	4.96	0.50	2.78	0.05	0.026	< 10	6	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23665	48	0.03	13	< 10	< 1	< 1	0.082
23666	49	0.04	21	< 10	< 1	< 1	0.066
23667	44	0.05	25	< 10	< 1	< 1	0.022
23668	49	0.03	15	< 10	< 1	< 1	0.088
23669	61	0.04	17	< 10	< 1	< 1	0.136
24000	13	0.08	60	< 10	15	18	7.398
24001	65	0.05	24	< 10	< 1	< 1	0.053
24002	60	0.03	12	< 10	< 1	< 1	0.080
24003	57	0.04	22	< 10	< 1	< 1	0.039
24004	63	0.04	17	< 10	1	< 1	0.095
24005	59	0.03	13	< 10	< 1	< 1	0.042
24006	64	0.03	12	< 10	1	< 1	0.064
24007	60	0.03	14	< 10	< 1	< 1	0.023
24008	62	0.02	12	< 10	< 1	< 1	0.027
24009	60	0.02	11	< 10	< 1	< 1	0.025
24010	14	0.08	61	< 10	15	18	6.879
24011	62	0.02	10	< 10	< 1	< 1	0.036
24012	78	0.03	14	< 10	< 1	< 1	0.026
24013	61	0.02	13	< 10	< 1	< 1	0.026
24014	181	0.03	33	< 10	1	< 1	0.090
24015	253	0.02	15	< 10	< 1	< 1	0.049
24016	253	0.01	7	< 10	< 1	< 1	0.036
24017	51	0.03	23	< 10	< 1	1	0.634
24018	72	0.01	13	< 10	< 1	1	1.408
24019	77	< 0.01	6	< 10	< 1	< 1	0.897
24020	1	< 0.01	< 1	< 10	< 1	4	0.016
24021	80	< 0.01	11	< 10	< 1	1	1.167
24022	68	< 0.01	11	< 10	< 1	1	1.012
24023	77	< 0.01	11	< 10	< 1	< 1	0.984
24024	65	< 0.01	13	< 10	< 1	< 1	1.123
24025	69	< 0.01	13	< 10	< 1	1	1.082
24026	72	< 0.01	9	< 10	< 1	1	1.304
24027	69	< 0.01	12	< 10	< 1	< 1	1.142
24028	75	< 0.01	17	< 10	2	2	0.480
24029	88	0.01	40	< 10	2	1	0.508
24030	2	< 0.01	< 1	< 10	< 1	4	0.007
24031	48	0.05	66	< 10	2	2	0.365
24032	7	0.04	42	< 10	1	1	0.990
24033	37	0.04	66	< 10	< 1	2	4.028
24034	37	0.07	121	< 10	< 1	2	1.583
24035	5	0.07	122	< 10	< 1	3	2.885
24036	5	0.03	32	< 10	< 1	1	1.086
24037	4	0.03	44	< 10	< 1	1	1.375
24038	6	0.02	33	< 10	< 1	< 1	0.520
24039	6	0.05	62	< 10	< 1	1	0.497
24040	1	< 0.01	< 1	< 10	< 1	4	0.013
24041	10	0.10	133	< 10	< 1	3	2.623
24042	14	0.07	129	< 10	2	5	4.994
24043	16	0.05	106	< 10	2	3	1.875
24044	4	0.02	22	< 10	2	2	1.022
24045	13	0.11	107	< 10	3	4	3.539
24046	16	0.07	134	< 10	< 1	4	3.486

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24047	8	0.10	90	< 10	1	4	5.142
24048	13	0.06	97	< 10	2	4	2.527
24049	10	0.08	39	14	4	2	2.738
24050	14	0.08	62	< 10	16	16	9.360
24051	17	0.09	66	< 10	4	3	2.186
24052	15	0.08	42	< 10	4	4	2.882
24053	14	0.12	57	< 10	3	4	2.285
24054	25	0.09	63	< 10	4	4	3.264
24055	10	0.10	74	< 10	2	5	5.220
24056	25	0.12	63	< 10	4	3	1.948
24057	9	0.14	107	< 10	4	4	0.891
24058	31	0.12	150	< 10	11	4	0.090
24059	24	0.09	127	< 10	12	3	0.155
24060	14	0.09	64	< 10	16	19	7.607
24061	18	0.04	21	< 10	6	2	0.879
24062	36	0.08	29	< 10	6	1	0.433
24063	17	0.10	43	< 10	6	2	1.033
24064	12	0.07	79	< 10	2	1	0.732
24065	7	0.08	83	< 10	2	< 1	0.065
24066	6	0.05	67	< 10	1	1	0.332
24067	9	0.08	81	< 10	2	1	0.894
24068	11	0.10	65	< 10	3	2	0.424
24069	24	0.10	87	< 10	2	2	0.871
24070	2	< 0.01	< 1	< 10	< 1	4	0.007
24071	25	0.12	61	< 10	6	2	0.952
24072	1	0.01	8	< 10	3	6	7.216
24073	12	0.03	23	< 10	3	3	2.009
24074	21	0.10	106	< 10	6	4	3.557
24075	11	0.12	111	< 10	2	4	4.306
24076	9	0.04	29	< 10	3	6	6.985
24077	3	0.06	21	< 10	3	4	3.059
24078	10	0.10	78	< 10	3	2	0.338
24079	10	0.10	74	< 10	3	2	0.328
24080	65	0.01	33	< 10	< 1	1	0.485
24081	15	0.15	125	< 10	3	2	0.852
24082	10	0.15	41	< 10	4	7	0.148
24083	10	0.13	17	< 10	8	6	0.023
24084	14	0.17	25	< 10	5	6	0.017
24085	16	0.14	10	< 10	5	7	0.010
24086	18	0.14	13	< 10	4	8	0.010
24087	15	0.15	20	< 10	12	5	0.011
24088	10	0.15	15	27	10	7	0.014
24089	7	0.19	40	< 10	10	8	0.012
24090	2	< 0.01	< 1	< 10	1	5	0.007
24091	10	0.18	32	< 10	9	7	0.018
24092	46	0.09	75	< 10	5	2	0.166
24093	47	0.10	66	< 10	7	2	0.180
24094	31	0.10	65	33	12	3	0.214
24095	107	0.05	56	< 10	4	1	0.139
24096	148	0.09	57	< 10	4	1	0.144
24097	140	0.06	58	< 10	4	1	0.233
24098	93	0.06	66	< 10	4	2	0.256

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24088	87	0.14	89	< 10	6	2	0.228
24100	14	0.08	81	18	15	18	7.956
24101	23	0.10	75	< 10	6	2	0.216
24102	16	0.25	127	< 10	6	3	0.094

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	23.0	1.4	1010	739	13	27	516	587	0.47	300	351	<1	1260	0.78	9	6	21.4	0.03	0.14	0.07	0.030	85	1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.4	0.6	6400	137	333	40	43	57	2.82	97	35	1	20	0.95	15	55	3.39	1.36	1.70	0.11	0.115	<10	7	<10
GXR-4 Cert	4.00	0.860	6500	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	20.0	4.7	88	1130	<2	19	815	559	3.53	16	1020	1	<10	0.82	11	26	2.29	0.96	0.56	0.22	0.059	39	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	<0.5	66	1000	<2	25	91	116	6.94	231	822	<1	<10	0.14	16	80	5.21	0.83	0.40	0.12	0.030	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2670			2250											5.66							
OREAS 13P Cert			2500			2280											7.58							
24007 Ong	<0.2	<0.5	26	42	<2	34	<2	6	4.11	<10	34	<1	<10	2.87	7	133	0.65	0.15	0.85	0.40	0.013	<10	1	<10
24007 Dup	<0.2	<0.5	26	40	<2	31	<2	5	3.85	<10	32	<1	<10	2.74	5	125	0.61	0.14	0.61	0.37	0.011	<10	1	<10
24021 Ong	43.5	32.6	7500	144	<2	301	419	92	4.45	<10	9	<1	28	3.21	39	40	2.24	<0.01	0.75	0.31	0.004	<10	2	<10
24021 Dup	43.1	32.3	7500	142	<2	303	416	91	4.40	<10	9	<1	19	3.19	38	40	2.25	<0.01	0.75	0.31	0.004	<10	2	<10
24034 Ong	3.0	2.5	1810	114	<2	597	22	54	4.18	<10	76	<1	<10	1.73	77	154	4.75	0.48	1.59	0.29	0.013	<10	4	<10
24034 Dup	3.0	3.0	1850	115	<2	595	27	52	4.28	<10	75	<1	<10	1.74	73	153	4.74	0.48	1.65	0.30	0.013	<10	4	<10
24048 Ong	2.9	1.0	1330	487	<2	1160	15	195	4.75	11	27	5	<10	0.29	113	69	10.9	1.95	5.08	0.08	0.035	<10	13	<10
24048 Dup	3.0	0.7	1410	503	<2	1170	14	201	4.91	<10	27	5	<10	0.30	120	71	11.3	2.01	5.24	0.09	0.036	<10	13	41
24071 Ong	17.4	5.5	3580	141	<2	220	97	93	4.99	<10	119	<1	<10	2.23	27	77	4.97	0.85	1.94	0.30	0.057	<10	8	<10
24071 Dup	16.3	5.5	3630	145	<2	229	101	97	5.17	<10	125	<1	<10	2.30	28	80	5.14	0.88	2.03	0.31	0.059	<10	8	<10
24085 Ong	<0.2	<0.5	19	250	<2	6	4	42	3.15	<10	154	<1	<10	0.60	5	80	2.59	0.89	1.61	0.16	0.020	<10	4	<10
24085 Dup	<0.2	<0.5	18	254	<2	8	6	42	3.23	<10	156	<1	<10	0.60	6	81	2.66	0.91	1.64	0.16	0.021	<10	5	<10
24088 Ong	2.0	0.8	617	312	<2	84	20	49	4.60	<10	37	<1	<10	3.32	21	102	2.86	0.30	1.33	0.25	0.027	<10	6	<10
24088 Dup	2.0	0.7	629	323	<2	85	20	49	4.51	<10	37	<1	<10	3.36	23	101	2.95	0.31	1.38	0.25	0.027	<10	6	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								

Quality Control							
Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	143		71	113	21	17	0.169
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	70		85	13	12	10	1.815
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	86		52	< 10	12	12	0.038
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	27		172	< 10	6	14	0.014
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
24007 Orig	50	0.03	14	< 10	< 1	< 1	0.022
24007 Dup	59	0.03	14	< 10	< 1	< 1	0.023
24021 Orig	80	< 0.01	11	< 10	< 1	1	1.164
24021 Dup	79	< 0.01	11	< 10	< 1	1	1.171
24034 Orig	37	0.07	121	< 10	< 1	2	1.592
24034 Dup	38	0.05	121	< 10	< 1	1	1.575
24048 Orig	13	0.05	96	< 10	2	3	2.492
24048 Dup	13	0.05	99	< 10	2	4	2.563
24071 Orig	25	0.12	61	< 10	6	2	0.932
24071 Dup	26	0.12	62	< 10	6	2	0.972
24065 Orig	16	0.14	10	< 10	5	7	0.010
24065 Dup	16	0.14	10	< 10	5	7	0.010
24068 Orig	92	0.09	66	< 10	4	2	0.249
24068 Dup	93	0.09	66	< 10	4	2	0.263
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 02-Jun-08
Invoice No.: A08-2865
Invoice Date: 16-Jun-08
Your Reference: DOSSIER 22333

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

75 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2865**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Administration

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2865

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
23796	1.9	1.3	312	169	<2	97	8	96	3.20	<10	79	<1	<10	1.51	24	315	2.94	0.39	2.37	0.30	0.11	<10	4	<10
23797	6.8	2.6	2610	167	<2	179	11	48	5.66	<10	38	<1	<10	4.20	29	306	2.76	0.16	1.63	0.21	0.027	<10	3	<10
23798	1.3	1.0	598	424	<2	75	9	49	3.77	<10	210	<1	<10	1.50	18	190	3.87	0.86	2.40	0.12	0.028	<10	7	<10
23799	4.7	3.0	2620	352	<2	161	10	66	3.47	<10	181	<1	<10	1.20	33	108	4.20	0.92	2.32	0.12	0.028	<10	8	<10
23800	<0.2	<0.5	4	9	<2	2	<2	2	0.03	<10	11	<1	<10	0.04	<1	<2	0.06	0.01	0.02	0.01	0.004	<10	<1	<10
23801	<0.2	<0.5	24	333	<2	28	4	38	3.52	<10	425	<1	<10	0.79	15	142	3.22	0.90	2.28	0.16	0.036	<10	9	<10
23802	9.5	2.4	5270	328	<2	2610	15	59	2.42	<10	23	<1	<10	1.16	130	167	12.4	0.59	2.05	0.04	0.022	<10	6	<10
23803	16.3	7.5	>10000	526	<2	264	16	140	3.82	<10	64	<1	<10	0.88	108	101	6.62	1.13	3.63	0.04	0.017	<10	6	<10
23804	6.7	2.9	3370	523	<2	112	14	73	4.21	<10	183	<1	<10	1.65	22	106	4.54	0.89	2.96	0.09	0.027	<10	7	<10
23805	1.4	1.3	792	393	2	66	9	54	3.85	<10	213	<1	<10	1.22	15	124	3.68	0.73	2.61	0.19	0.018	7	<10	
23806	2.4	2.5	1080	500	<2	108	9	71	3.95	<10	187	<1	<10	1.04	18	118	4.65	0.62	2.94	0.14	0.020	<10	8	<10
23807	1.7	1.3	842	438	<2	70	6	54	3.75	<10	198	<1	<10	0.95	15	124	4.16	0.67	2.67	0.10	0.011	<10	8	<10
23808	3.2	2.1	1430	286	<2	184	22	51	6.73	<10	44	<1	<10	5.23	21	446	3.00	2.00	2.05	0.23	0.006	<10	6	<10
23809	2.4	1.6	1070	331	<2	162	23	47	6.02	<10	27	<1	<10	4.46	23	488	2.94	0.15	2.55	0.19	0.010	<10	5	<10
23810	0.9	2.2	8280	328	<2	>10000	3	45	0.64	<10	4	<1	<10	0.41	672	36	33.1	0.11	0.18	0.06	0.052	<10	4	<10
23811	0.9	0.7	446	306	<2	116	9	35	4.34	<10	179	<1	<10	2.36	17	376	2.89	0.40	2.60	0.14	0.009	<10	6	<10
23812	<0.2	<0.5	31	364	<2	14	4	51	2.84	<10	73	<1	<10	0.97	9	96	3.27	0.47	2.26	0.07	0.049	<10	6	<10
23813	<0.2	0.6	122	408	3	6	6	55	2.78	<10	75	<1	<10	0.67	11	81	3.70	0.37	2.44	0.06	0.064	<10	4	<10
23814	<0.2	<0.5	199	389	2	10	2	54	2.39	<10	74	<1	<10	0.38	11	99	3.68	0.37	2.28	0.03	0.056	<10	4	<10
23815	<0.2	<0.5	31	297	3	7	4	40	2.21	<10	91	<1	<10	0.23	9	143	2.93	0.43	1.76	0.03	0.048	<10	2	<10
23816	<0.2	<0.5	11	313	<2	7	4	43	2.06	<10	92	<1	<10	0.23	11	132	2.77	0.41	1.68	0.03	0.041	<10	3	<10
23817	<0.2	<0.5	4	400	<2	13	5	46	2.33	<10	79	<1	<10	0.50	10	112	3.29	0.28	1.99	0.04	0.036	<10	3	<10
23818	1.6	2.3	866	477	<2	67	82	141	2.47	<10	98	<1	<10	0.87	16	92	3.84	0.18	2.17	0.03	0.033	<10	6	<10
23819	14.7	12.7	7490	573	<2	1240	230	830	2.85	<10	21	<1	<10	0.96	378	276	11.7	1.00	2.68	0.06	0.012	<10	6	13
23820	<0.2	<0.5	6	11	<2	<1	3	2	0.03	<10	9	<1	<10	0.04	<1	2	0.06	0.01	0.02	0.01	0.004	<10	<1	<10
23821	14.7	28.2	>10000	800	<2	503	206	1340	3.13	<10	19	<1	11	1.48	364	160	12.2	0.08	2.66	0.06	0.027	<10	8	21
23822	32.5	72.9	>10000	359	<2	2800	170	2750	1.88	<10	13	<1	<10	1.08	192	70	19.2	0.04	0.99	0.03	0.029	<10	3	24
23823	69.8	107	>10000	253	<2	3970	131	5630	1.62	<10	11	<1	<10	0.35	176	28	26.6	0.20	0.98	0.03	0.047	<10	4	37
23824	64.7	139	>10000	257	<2	4920	172	6150	1.36	<10	11	<1	12	0.34	235	24	33.4	0.08	0.76	0.04	0.032	<10	3	44
23825	54.1	92.1	>10000	336	<2	5310	172	3510	1.45	<10	16	<1	<10	0.34	616	27	33.3	0.05	0.89	0.02	0.023	<10	3	38
23826	60.3	63.2	>10000	592	<2	2220	206	2450	2.46	<10	10	<1	<10	0.72	441	66	22.1	0.06	1.76	0.03	0.039	<10	8	30
23827	19.0	25.3	>10000	871	<2	242	440	1130	3.13	<10	14	<1	<10	2.85	44	203	8.56	0.04	2.39	0.08	0.029	<10	10	41
23828	6.0	6.8	5510	914	<2	151	131	355	3.48	<10	10	<1	<10	4.30	39	106	6.69	0.02	2.75	0.04	0.047	<10	18	20
23829	0.6	1.0	303	939	<2	59	4	85	3.90	<10	8	<1	<10	4.22	36	113	9.66	0.01	2.80	0.02	0.043	<10	20	<10
23830	<0.2	<0.5	3	13	<2	<1	<2	1	0.03	<10	7	<1	<10	0.17	<1	2	0.03	0.01	0.01	0.01	0.004	<10	<1	<10
23831	0.6	1.6	477	981	<2	61	11	112	3.76	<10	8	<1	<10	3.30	39	134	9.04	0.01	2.77	0.03	0.045	<10	21	<10
23832	0.4	1.4	211	976	<2	51	15	138	3.87	<10	5	<1	<10	6.55	34	97	9.90	<0.01	2.71	0.02	0.044	<10	19	<10
23833	7.1	17.5	3520	769	<2	2520	189	1120	2.51	<10	7	<1	<10	1.12	354	73	17.0	<0.01	1.65	0.04	0.036	<10	9	24
23834	16.4	17.9	7880	626	<2	4180	341	1140	2.16	<10	10	<1	<10	0.46	421	21	25.2	0.03	1.46	0.03	0.034	<10	6	18
23835	32.0	36.8	>10000	592	<2	6280	156	2100	2.21	<10	7	<1	<10	0.28	216	26	28.5	0.10	1.88	0.02	0.028	<10	5	48
23836	24.9	35.2	>10000	992	<2	5140	192	2350	2.33	<10	13	<1	<10	0.24	169	24	28.3	0.10	2.00	0.02	0.022	<10	5	32
23837	29.6	37.8	>10000	810	<2	2940	299	2450	2.67	<10	17	<1	<10	0.42	147	57	21.0	0.08	1.90	0.03	0.037	<10	7	39
23838	37.3	74.5	>10000	702	<2	3760	280	3870	2.63	<10	8	<1	<10	0.50	181	26	25.4	0.05	1.60	0.02	0.038	<10	7	51
23839	39.8	47.0	>10000	571	<2	6500	197	2730	2.06	<10	8	<1	11	0.40	625	26	32.0	0.03	1.34	0.01	0.027	<10	5	42
23840	<0.2	<0.5	16	10	<2	2	<2	3	0.03	<10	10	<1	<10	0.04	<1	<2	0.06	<0.01	0.02	0.01	0.004	<10	<1	<10
23841	33.3	45.7	>10000	546	<2	5940	142	2640	1.67	<10	5	<1	<10	0.25	254	29	33.3	<0.01	1.15	0.01	0.024	11	5	50
23842	24.0	40.3	>10000	332	<2	8640	86	3990	1.06	<10	6	<1	<10	0.62	269	11	37.3	<0.01	0.76	0.01	0.016	<10	3	30
23843	46.5	14.2	>10000	984	<2	2210	375	934	3.88	<10	5	<1	12	0.81	252	36	18.7	<0.01	2.58	0.01	0.039	<10	8	36
23844	34.2	13.8	6290	1030	<2	634	1620	892	3.77	<10	7	<1	<10	1.70	49	136	11.8	<0.01	3.05	0.03	0.058	<10	15	165
23845	20.7	13.7	>10000	950	<2	265	685	933	3.20	<10	21	<1	17	2.02	37	47	8.09	0.02	2.75	0.03	0.077	<10	12	43
23846	21.6	19.7	>10000	1030	<2	187	436	1300	3.26	<10	10	<1	<10	2.78	39	168	9.03	0.03	3.02	0.05	0.026	<10	14	51
23847	12.1	11.7	6200	796	<2	136	323	830	2.34	<10	13	<1	<10	2.22	25	146	5.62	0.05	2.26	0.06	0.042	<10	8	30

Activation Laboratories Ltd. Report: A08-2865

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23648	30.1	16.2	> 10000	846	< 2	2260	548	1050	2.86	< 10	11	< 1	12	0.76	88	74	15.7	0.05	2.64	0.04	0.042	< 10	8	35
23649	14.1	10.6	8070	780	< 2	1390	247	744	2.66	< 10	10	< 1	< 10	0.52	176	66	16.2	0.07	2.66	0.03	0.039	< 10	10	38
23650	1.0	1.0	8360	278	< 2	> 10000	4	41	0.49	< 10	8	< 1	< 10	0.38	543	32	30.6	0.10	0.16	0.06	0.050	< 10	4	< 10
23651	8.2	12.1	4600	658	< 2	264	180	626	3.35	< 10	26	< 1	< 10	0.87	39	74	6.67	0.20	3.03	0.05	0.059	< 10	11	46
23652	11.2	14.0	4390	698	< 2	623	168	609	2.90	< 10	18	< 1	< 10	1.06	49	68	9.27	0.22	2.67	0.06	0.053	< 10	11	52
23653	2.2	1.7	747	212	< 2	69	29	88	0.53	< 10	7	< 1	< 10	0.51	7	236	1.66	0.02	0.46	0.02	0.008	< 10	2	< 10
23654	1.3	1.4	960	1030	< 2	179	22	155	3.38	< 10	34	< 1	< 10	1.40	40	61	8.86	0.26	3.66	0.02	0.047	< 10	6	< 10
23655	< 0.2	0.7	64	536	< 2	18	6	74	3.20	< 10	183	< 1	< 10	0.32	14	96	4.74	0.58	2.66	0.06	0.069	< 10	9	< 10
23656	0.2	0.6	35	690	< 2	14	2	72	3.38	< 10	128	< 1	< 10	0.90	16	61	5.26	0.49	2.91	0.03	0.087	< 10	9	< 10
23657	< 0.2	0.7	16	742	< 2	9	7	67	3.62	< 10	187	< 1	< 10	1.16	16	64	4.90	0.72	2.71	0.11	0.088	< 10	10	< 10
23658	< 0.2	0.6	47	821	< 2	14	8	80	3.68	< 10	175	< 1	< 10	1.38	18	66	4.87	0.85	3.04	0.07	0.078	< 10	10	< 10
23659	< 0.2	0.6	39	659	2	9	8	66	3.61	< 10	248	< 1	< 10	0.73	16	62	4.64	0.99	2.62	0.14	0.080	< 10	11	< 10
23660	0.9	2.1	8460	209	< 2	> 10000	4	39	0.60	< 10	35	< 1	< 10	0.37	648	25	26.0	0.10	0.14	0.06	0.050	< 10	3	< 10
23661	< 0.2	0.6	49	843	< 2	19	5	97	3.78	< 10	191	< 1	< 10	0.71	23	63	4.89	0.81	2.67	0.11	0.096	< 10	10	< 10
23662	< 0.2	< 0.5	7	636	< 2	9	4	84	2.37	< 10	83	< 1	< 10	0.58	6	104	2.47	0.44	1.87	0.06	0.028	< 10	4	< 10
23663	< 0.2	< 0.6	11	470	< 2	9	3	108	2.17	< 10	83	< 1	< 10	0.22	6	116	2.63	0.41	1.71	0.04	0.019	< 10	3	< 10
23664	0.6	1.1	541	523	< 2	27	4	270	2.66	< 10	83	< 1	< 10	0.37	33	159	5.34	0.76	1.76	0.05	0.027	< 10	5	< 10
23665	0.3	0.6	101	340	< 2	10	6	129	1.66	< 10	67	< 1	< 10	0.12	10	91	2.74	0.42	1.61	0.03	0.016	< 10	2	< 10
23666	0.4	0.7	162	483	< 2	17	5	128	2.14	< 10	69	< 1	< 10	0.49	13	130	3.31	0.46	1.97	0.03	0.036	< 10	2	< 10
23667	1.0	1.3	616	149	< 2	1010	10	50	5.00	< 10	12	< 1	< 10	3.14	167	126	4.70	0.04	1.76	0.31	0.004	< 10	6	< 10
23668	1.3	1.2	836	148	< 2	1210	11	59	4.60	< 10	20	< 1	< 10	2.06	125	163	6.46	0.20	2.66	0.31	0.007	< 10	6	< 10
23669	0.7	1.1	523	268	< 2	249	< 2	144	3.66	< 10	60	< 1	< 10	0.31	44	45	5.19	0.18	4.66	0.06	0.007	< 10	11	< 10
23670	< 0.2	< 0.5	3	9	< 2	< 1	< 2	2	0.03	< 10	8	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.01	0.004	< 10	< 1	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23795	25	0.07	33	< 10	3	5	0.207
23797	51	0.06	41	< 10	2	2	0.501
23798	19	0.15	24	< 10	13	7	0.134
23799	18	0.15	27	< 10	10	7	0.588
23800	2	< 0.01	< 1	< 10	1	4	0.020
23801	14	0.15	36	< 10	8	7	0.014
23802	13	0.12	59	< 10	9	12	6.241
23803	10	0.12	31	< 10	15	8	2.067
23804	16	0.13	26	< 10	13	3	0.502
23805	21	0.13	26	< 10	10	2	0.136
23806	28	0.13	29	< 10	9	2	0.441
23807	17	0.05	23	< 10	5	3	0.201
23808	57	0.07	54	< 10	3	1	0.367
23809	78	0.05	42	< 10	6	< 1	0.210
23810	15	0.11	63	< 10	17	18	10.04
23811	45	0.05	33	< 10	5	2	0.103
23812	22	0.13	13	< 10	17	5	0.022
23813	17	0.17	16	< 10	24	6	0.041
23814	5	0.15	14	< 10	25	7	0.081
23815	5	0.10	6	< 10	21	5	0.046
23816	6	0.10	5	< 10	21	8	0.021
23817	8	0.11	10	< 10	27	8	0.028
23818	9	0.13	27	< 10	25	10	0.360
23819	13	0.05	90	< 10	8	6	5.823
23820	2	< 0.01	< 1	< 10	1	4	0.021
23821	13	0.10	96	< 10	5	6	5.194
23822	13	0.07	49	< 10	8	10	6.887
23823	8	0.07	75	< 10	4	7	6.744
23824	9	0.05	107	< 10	2	8	6.938
23825	8	0.05	115	< 10	2	6	6.237
23826	9	0.07	104	< 10	4	6	6.562
23827	18	0.08	179	< 10	5	2	1.722
23828	15	0.16	214	< 10	13	3	0.712
23829	8	0.14	249	< 10	9	3	0.239
23830	2	< 0.01	< 1	< 10	1	5	0.008
23831	13	0.16	246	< 10	11	3	0.256
23832	8	0.15	245	< 10	11	3	0.193
23833	12	0.14	154	< 10	6	5	5.208
23834	5	0.08	73	< 10	4	6	6.306
23835	4	0.08	74	< 10	4	7	4.430
23835	7	0.05	92	< 10	3	6	4.104
23837	10	0.08	93	< 10	6	5	4.728
23838	21	0.05	86	< 10	4	6	4.846
23838	14	0.08	104	< 10	3	7	5.549
23840	1	< 0.01	< 1	< 10	< 1	4	0.021
23841	7	0.07	60	< 10	3	8	5.084
23842	11	0.06	86	< 10	2	9	5.929
23843	16	0.15	72	< 10	11	11	5.589
23844	12	0.22	157	< 10	12	6	1.987
23845	8	0.15	129	< 10	11	3	1.169
23846	9	0.12	156	< 10	5	3	1.541
23847	10	0.05	119	< 10	4	2	0.817

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23646	10	0.13	132	< 10	6	4	5.541
23649	10	0.17	143	< 10	7	4	6.537
23650	14	0.08	59	< 10	16	16	7.227
23651	15	0.16	175	< 10	7	3	1.211
23652	9	0.17	151	< 10	9	3	2.807
23653	3	0.04	23	< 10	2	< 1	0.278
23654	7	0.12	36	< 10	14	6	2.448
23655	10	0.09	99	< 10	11	8	0.091
23656	7	0.08	74	< 10	9	6	0.042
23657	21	0.16	73	< 10	10	7	0.024
23658	14	0.20	86	< 10	8	7	0.137
23659	16	0.17	69	< 10	7	8	0.242
23660	16	0.06	46	< 10	14	15	4.730
23661	19	0.14	68	< 10	7	7	0.378
23662	10	0.07	21	< 10	10	14	0.015
23663	6	0.05	13	< 10	10	21	0.011
23664	10	0.11	29	< 10	7	14	0.979
23665	4	0.04	4	< 10	8	16	0.436
23666	5	0.05	26	< 10	8	18	1.083
23667	51	0.02	45	< 10	< 1	2	1.770
23668	36	0.07	125	< 10	1	2	2.503
23669	13	0.08	164	< 10	2	2	0.862
23670	1	< 0.01	< 1	< 10	1	4	0.019

Activation Laboratories Ltd. Report: A08-2865

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.7	3.5	1060	774	14	36	998	631	0.45	331	258	<1	1390	0.83	10	6	22.9	0.03	0.15	0.06	0.036	73	1	28
GXR-1 Cert	31.0	3.3	1110	852	19	41	730	760	3.52	427	750	1	1380	0.96	8	12	23.6	0.05	0.22	0.05	0.065	122	2	54
GXR-4 Meas	3.4	0.7	5850	138	334	39	44	55	2.60	96	30	1	24	0.97	17	58	3.20	1.30	1.67	0.11	0.127	<10	7	<10
GXR-4 Cert	4.0	0.9	6620	156	310	42	62	73	7.20	98	1640	2	16	1.01	15	64	3.09	4.01	1.65	0.66	0.120	5	8	6
GXR-2 Meas	19.2	4.8	86	1110	<2	19	778	563	3.41	19	1000	1	<10	0.79	11	27	2.23	0.57	0.55	0.19	0.063	38	5	<10
GXR-2 Cert	17.0	4.1	78	1037	2	21	890	530	16.50	25	2240	2	1	0.93	9	35	1.86	1.37	0.85	0.56	0.105	49	7	2
GXR-6 Meas	0.3	0.8	66	1030	<2	26	99	121	7.05	237	825	<1	<10	0.16	16	88	5.24	0.89	0.41	0.10	0.034	<10	23	<10
GXR-6 Cert	1.3	1.0	66	1037	2	27	101	118	17.70	330	1300	1	0	0.18	14	95	5.58	1.87	0.51	0.10	0.035	4	28	2
OREAS 13P Meas			2800			2390											6.05							
OREAS 13P Cert			2500			2261											7.58							
23756 Ong	1.9	1.3	814	169	<2	98	8	98	3.16	<10	79	<1	<10	1.51	24	313	2.95	0.39	2.38	0.30	0.011	<10	4	<10
23765 Dup	1.9	1.3	809	169	<2	97	9	94	3.23	<10	80	<1	<10	1.50	25	316	2.96	0.39	2.38	0.31	0.011	<10	4	<10
23805 Ong	2.3	1.5	1020	328	<2	162	23	47	5.66	<10	27	<1	<10	4.44	23	484	2.93	0.15	2.63	0.19	0.010	<10	5	<10
23805 Dup	2.4	1.8	1130	334	<2	163	23	46	6.17	<10	27	<1	<10	4.48	23	488	2.95	0.15	2.67	0.19	0.011	<10	5	<10
23823 Ong	70.4	107	>10000	254	<2	4000	132	3680	1.54	<10	11	<1	<10	0.36	178	40	28.7	0.20	1.01	0.03	0.046	<10	4	37
23823 Dup	69.2	105	>10000	252	<2	3930	130	3580	1.51	<10	11	<1	<10	0.35	175	39	28.3	0.20	0.98	0.03	0.048	<10	4	36
23841 Ong	33.2	45.1	>10000	541	<2	6000	141	2620	1.67	<10	5	<1	<10	0.25	251	26	34.0	<0.01	1.15	0.01	0.024	11	5	50
23841 Dup	33.3	46.4	>10000	551	<2	5890	143	2690	1.67	<10	6	<1	<10	0.25	267	30	32.7	<0.01	1.15	0.01	0.024	11	5	51
23855 Ong	0.3	0.7	54	537	<2	19	5	75	3.18	<10	185	<1	<10	0.32	14	93	4.78	0.59	2.67	0.05	0.089	<10	9	<10
23855 Dup	<0.2	0.7	54	534	<2	16	4	73	3.21	<10	181	<1	<10	0.32	14	95	4.70	0.58	2.63	0.04	0.069	<10	9	<10
23869 Ong	1.3	1.2	848	147	<2	1220	8	59	4.53	<10	21	<1	<10	2.05	125	164	5.50	0.20	2.37	0.31	0.007	<10	6	<10
23869 Dup	1.2	1.2	830	148	<2	1210	13	59	4.48	<10	19	<1	<10	2.04	124	162	5.41	0.19	2.35	0.31	0.007	<10	6	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	151		73	129	22	17	0.186
GXR-1 Cert	275		80	164	32	38	0.257
GXR-4 Meas	65		63	12	11	10	1.930
GXR-4 Cert	221		87	31	14	186	1.770
GXR-2 Meas	85		51	< 10	12	11	0.039
GXR-2 Cert	180		52	2	17	289	0.031
GXR-6 Meas	29		182	< 10	6	12	0.016
GXR-6 Cert	35		186	2	14	110	0.016
OREAS 13P Meas							
OREAS 13P Cert							
23756 Orig	25	0.07	32	< 10	3	5	0.206
23765 Dup	26	0.07	33	< 10	3	6	0.208
23809 Orig	75	0.06	42	< 10	6	< 1	0.211
23809 Dup	77	0.06	42	< 10	6	1	0.209
23823 Orig	8	0.07	76	< 10	4	7	6.912
23823 Dup	8	0.07	75	< 10	4	7	6.577
23841 Orig	7	0.07	80	< 10	3	8	5.013
23841 Dup	7	0.07	81	< 10	3	8	5.154
23855 Orig	10	0.09	60	< 10	11	8	0.092
23655 Dup	11	0.09	59	< 10	11	6	0.089
23668 Orig	37	0.07	125	< 10	1	2	2.534
23668 Dup	36	0.07	124	< 10	1	2	2.513
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 02-Jun-08
Invoice No.: A08-2866
Invoice Date: 12-Jun-08
Your Reference: DOSSIER 22334

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

105 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2866**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

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Activation Laboratories Ltd. Report: A08-2866

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
23691	< 0.2	< 0.5	148	112	< 2	82	5	15	4.79	< 10	20	< 1	< 10	2.87	13	376	1.38	0.05	1.79	0.39	0.003	< 10	2	< 10
23692	< 0.2	< 0.5	37	91	< 2	27	9	10	6.34	< 10	11	< 1	< 10	4.48	5	49	0.74	0.01	0.68	0.46	0.004	< 10	1	< 10
23693	0.7	< 0.5	271	85	< 2	49	10	19	6.63	< 10	13	< 1	< 10	4.75	8	86	0.78	0.02	0.50	0.44	0.005	< 10	1	< 10
23694	0.2	< 0.5	108	98	< 2	71	9	13	6.17	< 10	13	< 1	< 10	4.78	11	56	0.77	< 0.01	0.51	0.36	0.005	< 10	2	< 10
23695	2.2	< 0.5	194	114	< 2	71	10	24	6.38	< 10	16	< 1	< 10	4.78	10	60	0.86	0.02	0.63	0.36	0.004	< 10	2	< 10
23696	1.2	< 0.5	655	238	< 2	88	16	23	5.81	< 10	16	< 1	< 10	3.84	17	121	1.77	0.04	1.50	0.29	0.005	< 10	2	< 10
23697	0.4	< 0.5	157	92	< 2	59	12	27	6.62	< 10	44	< 1	< 10	4.70	9	110	0.86	0.07	0.84	0.35	0.005	< 10	1	< 10
23698	2.0	0.8	777	204	< 2	416	9	78	3.75	< 10	31	< 1	< 10	2.24	58	126	2.94	0.16	2.38	0.09	0.008	< 10	3	< 10
23699	1.7	1.4	696	315	< 2	205	12	157	5.38	< 10	56	< 1	< 10	2.64	31	90	3.78	0.23	2.41	0.21	0.003	< 10	5	< 10
23700	< 0.2	< 0.5	3	13	< 2	< 1	< 2	1	0.04	< 10	7	< 1	< 10	0.04	< 1	3	0.06	0.01	0.02	< 0.01	0.003	< 10	< 1	< 10
23701	2.7	1.4	1110	283	< 2	105	3	130	3.69	< 10	142	< 1	< 10	0.88	24	48	4.55	0.84	2.51	0.19	0.005	< 10	5	< 10
23702	1.6	1.5	678	357	< 2	97	5	153	4.34	< 10	128	< 1	< 10	1.23	15	50	4.24	0.55	2.54	0.17	0.009	< 10	7	< 10
23703	< 0.2	< 0.5	27	286	< 2	23	3	101	2.82	< 10	290	< 1	< 10	0.15	8	76	2.89	0.67	1.80	0.07	0.008	< 10	8	< 10
23704	0.5	0.5	190	422	< 2	20	5	127	3.42	< 10	205	< 1	< 10	0.48	11	60	4.23	0.74	2.28	0.12	0.011	< 10	10	< 10
23705	1.9	1.7	870	533	< 2	49	7	160	4.45	< 10	136	< 1	< 10	1.33	17	58	5.11	0.77	2.58	0.12	0.017	< 10	8	< 10
23706	1.8	1.0	826	446	< 2	48	7	150	4.63	< 10	150	< 1	< 10	1.68	13	60	6.19	0.98	2.88	0.10	0.019	< 10	11	< 10
23707	3.1	1.9	1000	265	< 2	43	11	130	3.95	< 10	140	< 1	< 10	1.63	12	35	3.72	0.68	2.12	0.13	0.013	< 10	7	< 10
23708	6.3	2.6	2790	316	< 2	416	11	216	4.06	< 10	72	< 1	< 10	1.22	60	64	6.33	0.67	2.88	0.16	0.009	< 10	8	< 10
23709	0.9	< 0.5	348	187	< 2	178	12	84	6.00	< 10	175	< 1	< 10	3.31	22	273	3.06	0.54	2.54	0.27	0.010	< 10	5	< 10
23710	< 0.2	< 0.5	3	12	< 2	< 1	< 2	< 1	0.04	< 10	6	< 1	< 10	0.16	< 1	2	0.03	0.01	0.01	< 0.01	0.003	< 10	< 1	< 10
23711	1.8	0.8	982	85	< 2	626	19	42	6.88	< 10	127	< 1	< 10	4.12	55	242	3.36	0.49	1.57	0.44	0.012	< 10	2	< 10
23712	1.3	< 0.5	636	89	< 2	396	26	25	6.12	< 10	39	< 1	< 10	4.18	38	112	1.99	0.11	0.58	0.43	0.009	< 10	1	< 10
23713	0.4	< 0.5	110	100	< 2	79	16	11	5.85	< 10	16	< 1	< 10	4.28	9	101	0.94	0.04	0.82	0.44	0.006	< 10	2	< 10
23714	2.6	1.1	1290	164	< 2	1000	24	35	5.69	< 10	57	< 1	< 10	3.91	51	112	4.62	0.24	1.61	0.37	0.011	< 10	2	< 10
23715	6.1	1.4	2780	74	< 2	1270	19	34	5.50	< 10	61	< 1	< 10	3.63	79	181	4.96	0.26	1.05	0.42	0.013	< 10	2	< 10
23716	5.4	0.9	3010	68	< 2	2270	17	26	5.26	< 10	38	< 1	< 10	3.62	170	102	7.73	0.13	0.79	0.38	0.007	< 10	2	< 10
23717	11.0	2.7	6680	73	< 2	2470	18	57	4.93	< 10	24	< 1	< 10	3.33	156	137	8.83	0.08	0.88	0.38	0.007	< 10	3	< 10
23718	6.6	1.3	3710	76	< 2	3290	18	41	4.70	< 10	21	< 1	< 10	3.11	159	117	10.8	0.03	0.58	0.37	0.009	< 10	2	< 10
23719	2.2	1.1	1170	59	< 2	851	23	21	5.69	< 10	19	< 1	< 10	4.03	58	165	3.24	0.04	0.88	0.66	0.010	< 10	2	< 10
23720	< 0.2	< 0.5	5	10	< 2	1	< 2	1	0.04	< 10	7	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	< 0.01	0.004	< 10	< 1	< 10
23721	7.8	0.8	4860	68	< 2	1660	19	23	4.75	< 10	63	< 1	< 10	2.85	108	206	6.22	0.17	0.95	0.90	0.014	< 10	2	< 10
23722	1.4	0.8	696	59	< 2	680	28	22	6.49	< 10	88	< 1	< 10	4.17	38	387	3.28	0.23	0.88	0.80	0.013	< 10	2	< 10
23723	9.4	1.4	4240	45	< 2	6910	15	33	2.65	< 10	45	< 1	< 10	1.47	358	68	20.2	0.12	0.65	0.22	0.010	< 10	2	< 10
23724	1.6	0.6	804	61	< 2	744	23	25	5.67	< 10	94	< 1	< 10	3.72	53	236	3.07	0.26	0.97	0.64	0.009	< 10	3	< 10
23725	2.0	1.1	561	91	< 2	301	23	27	6.44	< 10	112	< 1	< 10	4.51	29	187	1.69	0.18	0.55	0.72	0.011	< 10	3	< 10
23726	3.6	1.1	804	144	< 2	389	29	33	6.27	< 10	116	< 1	< 10	4.50	43	149	2.38	0.11	1.13	0.64	0.007	< 10	4	< 10
23727	3.2	0.9	949	152	< 2	448	17	32	5.40	< 10	98	< 1	< 10	4.07	48	117	2.49	0.08	0.95	0.53	0.010	< 10	4	< 10
23728	4.2	1.2	1240	158	< 2	558	23	37	5.34	< 10	78	< 1	< 10	4.06	53	122	2.86	0.07	0.97	0.54	0.009	< 10	4	< 10
23729	1.7	0.7	386	153	< 2	117	19	26	5.61	< 10	82	< 1	< 10	4.08	21	166	1.44	0.10	1.07	0.99	0.007	< 10	4	< 10
23730	< 0.2	< 0.5	2	10	< 2	< 1	< 2	< 1	0.03	< 10	7	< 1	< 10	0.15	< 1	< 2	0.03	0.01	0.01	0.01	0.003	< 10	< 1	< 10
23731	1.4	0.6	537	148	< 2	420	24	33	4.86	< 10	57	< 1	< 10	3.55	41	134	2.41	0.06	0.98	0.63	0.008	< 10	5	< 10
23732	8.0	1.8	3500	173	< 2	1750	22	51	3.88	< 10	43	< 1	< 10	2.70	146	140	8.51	0.03	1.02	0.47	0.012	< 10	4	< 10
23733	5.7	1.9	1830	195	< 2	895	21	43	4.57	< 10	31	< 1	< 10	3.29	80	155	4.00	0.02	0.98	0.62	0.008	< 10	5	< 10
23734	5.5	1.6	1500	247	< 2	625	24	44	4.67	< 10	19	< 1	< 10	3.46	52	144	3.35	0.02	1.10	0.66	0.010	< 10	6	< 10
23735	0.4	0.5	183	322	< 2	92	18	33	4.30	< 10	18	< 1	< 10	3.57	25	87	2.76	0.02	1.05	0.29	0.028	< 10	7	< 10
23736	0.4	< 0.5	127	405	< 2	83	22	36	3.23	< 10	17	< 1	< 10	2.65	25	104	3.16	0.02	1.23	0.19	0.008	< 10	7	< 10
23737	3.6	1.1	2090	113	< 2	1260	17	24	5.64	< 10	18	< 1	< 10	4.16	90	146	4.74	0.04	0.86	0.46	0.008	< 10	4	< 10
23738	4.5	4.8	1010	158	< 2	491	156	41	6.70	< 10	8	< 1	< 10	4.83	39	187	3.10	0.02	1.32	0.37	0.006	< 10	4	< 10
23739	5.7	0.5	2790	166	< 2	1270	22	38	4.82	< 10	51	< 1	< 10	3.34	144	116	5.41	0.05	1.01	0.55	0.010	< 10	4	< 10
23740	< 0.2	< 0.5	4	9	< 2	< 1	< 2	1	0.03	< 10	8	< 1	< 10	0.04	< 1	< 2	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10
23741	15.3	9.2	3020	181	< 2	1030	186	57	5.45	< 10	9	< 1	< 10	3.70	73	106	4.24	0.02	1.35	0.27	0.007	< 10	3	< 10
23742	13.1	6.3	2480	137	< 2	1010	181	40	6.10	< 10	7	< 1	< 10	4.07	74	97	3.01	0.01	1.03	0.41	0.008	&		

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Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23743	9.9	4.3	2380	311	<2	1550	89	51	3.21	<10	8	<1	<10	1.72	115	150	5.09	0.02	2.42	0.12	0.006	<10	3	<10
23744	17.4	2.6	3950	205	<2	1340	17	58	2.40	<10	11	<1	18	0.83	94	192	5.89	0.04	3.07	0.06	0.012	<10	3	<10
23745	18.0	1.0	4300	127	<2	1560	18	39	2.48	<10	4	<1	23	0.31	151	280	6.04	<0.01	3.48	0.02	0.009	<10	1	<10
23746	8.9	0.5	2310	147	<2	1140	7	47	2.45	<10	5	<1	<10	0.31	115	795	5.15	<0.01	3.35	0.02	0.010	<10	1	<10
23747	7.5	<0.5	1880	312	<2	1360	10	61	3.29	<10	5	<1	<10	0.97	105	809	6.44	0.02	4.74	0.03	0.008	<10	2	<10
23748	12.0	0.7	3250	616	<2	2220	43	53	4.71	<10	4	<1	<10	4.07	152	1190	11.1	<0.01	5.78	<0.01	0.006	<10	8	<10
23749	2.5	0.6	695	780	<2	450	15	47	4.55	<10	5	<1	<10	4.99	29	473	7.11	<0.01	4.65	0.01	0.005	<10	16	<10
23750	0.9	1.0	9200	228	<2	>10000	14	40	0.48	<10	5	<1	<10	0.35	6/5	31	32.8	0.11	0.66	0.045	<10	3	<10	
23751	16.6	9.3	>10000	434	<2	5450	125	529	2.34	<10	5	<1	<10	0.37	613	140	31.2	<0.01	1.90	0.03	0.006	<10	4	<10
23752	5.2	1.9	1080	476	<2	1440	11.3	53	3.63	<10	8	<1	<10	2.09	90	565	5.62	0.02	3.67	0.13	0.004	<10	3	<10
23753	21.5	8.0	4190	578	<2	1200	186	93	4.00	<10	11	<1	<10	1.70	111	444	8.25	0.02	3.81	0.07	0.010	<10	2	<10
23754	16.0	8.5	3460	377	<2	1230	170	77	4.62	<10	15	<1	<10	2.97	82	275	4.72	0.03	2.31	0.16	0.011	<10	2	<10
23755	8.8	7.1	2150	300	<2	1090	145	62	4.72	<10	13	<1	<10	2.74	66	238	4.02	0.02	2.17	0.15	0.010	<10	1	<10
23756	12.3	14.8	2590	429	<2	1120	271	114	4.38	<10	7	<1	<10	2.31	93	285	5.07	0.02	2.61	0.12	0.009	<10	3	<10
23757	3.4	3.0	744	479	<2	574	128	43	4.53	<10	6	<1	<10	2.52	43	245	3.74	0.01	2.64	0.13	0.006	<10	3	<10
23758	2.4	3.8	897	202	<2	1320	23	94	3.18	<10	6	<1	<10	0.68	103	124	4.54	<0.01	3.69	0.04	0.005	<10	2	<10
23759	5.0	5.0	2040	419	<2	1280	45	92	2.90	<10	5	<1	<10	0.98	81	314	6.65	<0.01	3.38	0.03	0.032	<10	2	<10
23760	<0.2	<0.5	3	11	<2	<1	<2	<1	0.03	<10	7	<1	<10	0.04	<1	2	0.05	0.01	0.02	0.01	0.004	<10	<1	<10
23761	3.3	6.4	2120	956	<2	1570	48	151	3.40	<10	7	<1	<10	0.71	154	428	8.58	<0.01	3.95	0.05	0.006	<10	2	<10
23762	6.4	10.0	2540	195	<2	1550	119	130	4.25	<10	6	<1	<10	2.67	52	184	5.93	0.01	1.72	0.13	0.004	<10	3	<10
23763	5.3	1.0	1250	672	<2	760	69	39	3.70	<10	6	<1	<10	4.11	45	299	5.27	0.02	3.44	0.06	0.004	<10	9	<10
23764	2.2	2.1	1630	170	<2	983	135	171	5.46	<10	8	<1	<10	3.39	81	225	6.41	0.02	1.33	0.21	0.007	<10	3	<10
23765	2.4	5.2	1720	416	<2	784	155	285	4.22	<10	8	<1	<10	2.36	71	232	7.27	0.01	2.62	0.11	0.009	<10	4	<10
23766	2.9	2.3	2420	227	<2	1380	184	302	4.32	<10	7	<1	<10	2.44	118	142	9.37	0.02	1.37	0.15	0.006	<10	3	<10
23767	13.7	5.3	>10000	333	<2	2690	165	374	3.34	<10	5	<1	<10	1.25	191	157	17.3	<0.01	1.60	0.13	0.008	<10	2	<10
23768	1.2	3.0	1070	209	<2	796	167	143	5.32	<10	7	<1	<10	3.17	74	112	5.71	0.01	1.43	0.21	0.008	<10	3	<10
23769	5.7	14.8	4130	134	<2	7180	75	521	1.32	<10	4	<1	<10	0.88	852	79	34.2	<0.01	0.47	0.04	0.006	<10	<1	<10
23770	0.9	<0.5	1460	287	<2	1450	5	28	5.65	<10	21	<1	<10	2.50	58	151	3.63	0.02	3.28	0.33	0.002	<10	3	<10
23771	18.0	16.8	>10000	339	<2	3750	131	659	2.68	<10	13	<1	<10	0.55	443	129	23.7	0.04	1.90	0.06	0.009	<10	3	<10
23772	14.6	14.5	>10000	237	<2	5750	119	517	1.43	<10	7	<1	<10	0.36	452	81	25.9	<0.01	0.88	0.01	0.009	<10	2	<10
23773	20.6	9.6	>10000	278	<2	4960	129	428	2.38	<10	10	<1	<10	0.85	644	107	28.7	0.07	1.31	0.07	0.010	<10	3	<10
23774	13.4	2.8	>10000	232	<2	7330	90	188	1.20	<10	6	<1	<10	0.25	554	95	35.7	<0.01	0.81	0.02	0.006	12	2	<10
23775	3.4	4.7	2290	121	<2	759	157	70	5.87	<10	7	<1	<10	4.16	53	161	4.08	0.01	0.87	0.24	0.005	<10	3	<10
23776	5.0	2.8	2910	201	<2	6540	117	220	1.94	<10	7	<1	<10	0.60	277	117	31.0	0.02	1.04	0.10	0.007	<10	2	<10
23777	1.1	17.4	>10000	579	<2	2240	204	725	3.68	<10	7	<1	<10	1.47	184	147	18.4	0.02	3.04	0.06	0.011	<10	8	<10
23778	35.8	27.2	>10000	539	<2	2660	204	1220	3.08	<10	14	<1	<10	0.86	130	118	19.6	0.05	2.56	0.06	0.020	<10	7	<10
23779	6.3	12.4	4620	890	<2	325	369	720	3.71	<10	40	<1	<10	1.39	46	177	7.46	0.11	2.95	0.16	0.018	<10	8	<10
23780	<0.2	<0.5	11	13	<2	1	<2	2	0.04	<10	8	<1	<10	0.04	<1	3	0.06	0.01	0.02	<0.01	0.004	<10	<1	<10
23781	11.8	31.0	6290	386	<2	766	284	1250	3.25	<10	34	<1	12	1.14	648	124	11.0	0.11	1.83	0.22	0.019	<10	6	12
23782	41.6	43.8	>10000	395	<2	1340	249	1380	2.72	<10	14	<1	<10	1.13	298	87	15.7	0.05	1.87	0.07	0.016	<10	5	18
23783	39.0	27.4	>10000	299	<2	2540	215	833	2.63	<10	16	<1	<10	0.86	371	111	21.3	0.15	1.55	0.10	0.015	<10	4	<10
23784	15.7	15.7	>10000	278	<2	5310	153	541	2.13	<10	17	<1	<10	0.30	421	81	30.0	0.20	1.45	0.06	0.016	<10	3	10
23785	13.9	17.9	8230	383	<2	3990	186	708	2.32	<10	17	<1	<10	0.59	213	105	24.0	0.13	1.73	0.06	0.012	<10	5	<10
23786	0.4	0.7	229	322	<2	87	18	102	2.84	<10	33	2	<10	0.41	10	58	3.82	0.16	3.70	0.02	0.026	<10	3	<10
23787	<0.2	<0.5	111	412	<2	80	7	74	2.97	<10	93	<1	<10	1.18	17	152	3.91	0.41	2.55	0.07	0.028	<10	10	<10
23788	<0.2	<0.5	36	376	<2	15	3	65	2.95	<10	166	<1	<10	0.39	11	59	4.45	0.52	2.53	0.04	0.065	<10	6	<10
23789	<0.2	<0.5	63	496	<2	76	9	78	2.91	<10	53	<1	<10	1.14	18	74	5.28	0.23	2.62	0.06	0.069	<10	10	<10
23790	<0.2	<0.5	3	13	<2	<1	<2	<1	0.03	<10	7	<1	<10	0.15	<1	3	0.03	0.01	0.01	0.01	0.003	<10	<1	<10
23791	<0.2	<0.5	85	523	<2	23	5	120	2.85	<10	84	<1	<10	1.04	21	70	5.14	0.35	2.63	0.07	0.067	<10	10	<10
23792	<0.2	0.6	20	327	<2	12	3	107	3.48	<10	265	<1	<10	0.27	14	89	4.60	0.88	2.51	0.05	0.082	<10	9	<10
23793	1.3	0.5	749	506	<2	151	19	189	3.05	<10	78	<1	<10	0.68	38	64	5.40	0.49	2.43	0.04	0.059	<10	8	<10
23794	<0.2	<0.5	83	429	<2	16	7	171	3.54	<10	118	<1	<10	0.79	13	77	5.26	0.43	2.40	0.06	0.052	<10	6	<10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23755	< 0.2	< 0.5	15	526	< 2	13	5	168	3.70	< 10	158	< 1	< 10	0.55	13	54	5.26	0.53	2.64	0.06	0.060	< 10	6	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23691	42	0.02	40	< 10	3	1	0.040
23692	74	< 0.01	6	< 10	< 1	1	0.033
23693	82	< 0.01	6	< 10	< 1	1	0.087
23694	94	< 0.01	10	< 10	1	1	0.125
23695	94	0.01	10	< 10	< 1	< 1	0.114
23696	65	0.02	17	< 10	1	1	0.114
23697	70	0.02	14	< 10	< 1	< 1	0.054
23698	26	0.05	37	< 10	< 1	1	0.974
23699	31	0.05	45	< 10	2	1	0.480
23700	1	< 0.01	< 1	< 10	< 1	4	0.077
23701	25	0.09	51	< 10	2	2	0.713
23702	29	0.05	33	< 10	4	2	0.424
23703	12	0.07	25	< 10	2	2	0.077
23704	18	0.11	37	< 10	5	3	0.112
23705	32	0.14	42	< 10	6	3	0.386
23706	36	0.15	69	< 10	6	3	0.351
23707	35	0.09	41	< 10	5	2	0.349
23708	25	0.12	47	< 10	6	3	1.854
23709	37	0.07	45	< 10	3	1	0.231
23710	2	< 0.01	< 1	< 10	< 1	4	0.007
23711	66	0.07	31	< 10	1	2	1.049
23712	78	0.03	13	< 10	< 1	1	0.616
23713	84	0.01	10	< 10	< 1	< 1	0.078
23714	85	0.04	21	< 10	< 1	2	1.907
23715	69	0.04	19	< 10	< 1	2	2.002
23716	66	0.03	21	< 10	< 1	3	3.522
23717	60	0.02	28	< 10	< 1	3	3.575
23718	51	0.02	26	< 10	< 1	4	4.496
23719	79	0.02	21	< 10	1	2	1.351
23720	1	< 0.01	< 1	< 10	< 1	4	0.019
23721	56	0.04	36	< 10	2	3	2.720
23722	67	0.04	46	< 10	2	2	1.057
23723	28	0.03	23	< 10	1	6	3.286
23724	65	0.04	24	< 10	1	2	1.142
23725	80	0.04	21	< 10	1	1	0.405
23726	81	0.04	26	< 10	1	1	0.653
23727	81	0.03	25	< 10	1	1	0.837
23728	67	0.03	23	< 10	< 1	1	1.056
23729	84	0.03	22	< 10	< 1	< 1	0.166
23730	2	< 0.01	< 1	< 10	< 1	4	0.007
23731	74	0.03	23	< 10	1	2	0.718
23732	59	0.03	26	< 10	1	3	2.691
23733	75	0.03	27	< 10	1	2	1.624
23734	76	0.04	35	< 10	2	2	1.115
23735	69	0.06	70	< 10	3	1	0.318
23736	48	0.06	77	< 10	3	1	0.241
23737	80	0.02	22	< 10	1	3	2.078
23738	93	0.02	27	< 10	< 1	1	0.889
23739	73	0.03	22	< 10	< 1	2	2.906
23740	1	< 0.01	< 1	< 10	< 1	4	0.019
23741	73	0.02	18	< 10	< 1	2	1.552
23742	92	0.02	15	< 10	< 1	1	1.161

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23743	24	0.03	27	< 10	< 1	2	2.193
23744	4	0.04	26	< 10	1	3	1.949
23745	< 1	0.03	23	< 10	< 1	2	2.115
23746	< 1	0.03	31	< 10	< 1	2	1.493
23747	1	0.06	43	< 10	1	2	1.258
23748	4	0.07	80	< 10	2	4	2.902
23749	4	0.08	101	< 10	2	2	0.296
23750	13	0.07	82	< 10	15	17	6.492
23751	7	0.01	63	< 10	1	6	5.607
23752	26	0.04	36	< 10	1	2	1.303
23753	15	0.05	32	< 10	1	2	1.753
23754	55	0.04	22	< 10	1	2	1.500
23755	55	0.03	18	< 10	< 1	1	1.117
23756	48	0.03	29	< 10	< 1	2	1.190
23757	47	0.02	26	< 10	< 1	1	0.340
23758	8	0.02	21	< 10	< 1	1	0.780
23759	7	0.04	30	< 10	2	3	1.447
23760	1	< 0.01	< 1	< 10	< 1	4	0.018
23761	8	0.02	28	< 10	< 1	3	2.599
23762	52	0.01	20	< 10	< 1	2	2.833
23763	15	0.06	70	< 10	2	2	0.932
23764	60	0.02	51	< 10	< 1	2	2.138
23765	26	0.03	47	< 10	1	2	2.140
23766	34	0.02	49	< 10	< 1	3	3.903
23767	19	0.02	62	< 10	< 1	5	6.217
23768	48	0.02	31	< 10	< 1	2	1.904
23769	11	0.01	51	< 10	< 1	9	6.036
23770	68	0.02	34	< 10	< 1	1	0.490
23771	10	0.04	92	< 10	< 1	6	5.342
23772	7	0.02	63	< 10	< 1	6	6.538
23773	16	0.03	76	< 10	1	7	6.774
23774	5	0.01	48	< 10	< 1	9	4.868
23775	77	0.02	23	< 10	< 1	1	1.486
23776	13	< 0.01	45	< 10	< 1	8	6.082
23777	7	0.03	83	< 10	3	5	5.363
23778	13	0.02	106	< 10	3	5	6.745
23779	19	0.05	132	< 10	4	2	1.108
23780	1	< 0.01	< 1	< 10	< 1	3	0.020
23781	22	0.04	116	< 10	2	3	4.198
23782	9	0.03	81	< 10	1	5	5.811
23783	12	0.05	139	< 10	2	6	6.493
23784	11	0.05	96	< 10	2	8	6.129
23785	6	0.05	98	< 10	3	7	6.558
23786	4	0.06	9	< 10	23	7	0.273
23787	9	0.15	59	< 10	18	11	0.142
23788	8	0.11	55	< 10	11	6	0.043
23789	12	0.14	116	< 10	13	5	0.170
23790	2	< 0.01	< 1	< 10	< 1	4	0.007
23791	16	0.15	116	< 10	10	4	0.102
23792	5	0.14	73	< 10	7	6	0.025
23793	8	0.13	50	< 10	9	8	1.548
23794	13	0.11	66	< 10	7	5	0.182

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23755	14	0.11	96	< 10	8	4	0.043

Activation Laboratories Ltd. Report: A08-2866

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.4	2.0	1070	729	14	32	552	595	0.58	316	497	<1	1320	0.82	7	6	22.7	0.03	0.18	0.09	0.038	76	1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.5	0.5	6400	143	339	41	43	57	2.86	101	25	1	13	1.02	15	57	3.52	1.44	1.78	0.12	0.119	<10	7	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	20.4	5.0	90	1140	<2	19	825	610	3.97	19	1050	1	<10	0.86	11	29	2.38	0.62	0.60	0.25	0.062	39	6	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	<0.5	71	1030	<2	26	101	127	7.73	235	924	<1	<10	0.17	17	86	5.51	0.99	0.45	0.14	0.033	<10	24	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas							2680										5.76							
OREAS 13P Cert							2500										7.58							
23703 Ong	<0.2	<0.5	28	291	<2	24	4	102	2.87	<10	264	<1	<10	0.15	8	78	2.95	0.89	1.84	0.07	0.008	<10	8	<10
23703 Dup	<0.2	<0.5	26	282	<2	21	3	99	2.77	<10	256	<1	<10	0.14	8	74	2.82	0.66	1.77	0.07	0.008	<10	8	<10
23717 Ong	10.9	2.7	6060	75	<2	2910	17	57	4.61	<10	24	<1	<10	3.34	159	140	8.99	0.06	0.66	0.37	0.007	<10	3	<10
23717 Dup	11.1	2.8	6700	72	<2	2430	19	57	4.94	<10	24	<1	<10	3.31	153	136	8.67	0.06	0.68	0.39	0.007	<10	3	<10
23730 Ong	<0.2	<0.5	2	10	<2	<1	<2	<1	0.03	<10	7	<1	<10	0.15	<1	<2	0.02	0.01	0.01	0.01	0.003	<10	<1	<10
23730 Dup	<0.2	<0.5	2	11	<2	<1	<2	<1	0.03	<10	7	<1	<10	0.15	<1	<2	0.03	0.01	0.01	0.01	0.003	<10	<1	<10
23744 Ong	17.7	2.7	3860	205	<2	1360	17	60	2.41	<10	11	<1	16	0.93	65	186	5.91	0.04	3.06	0.06	0.013	<10	2	<10
23744 Dup	17.1	2.5	3930	205	<2	1310	18	55	2.39	<10	11	<1	21	0.83	62	196	5.87	0.04	3.06	0.06	0.012	<10	3	<10
23767 Ong	13.8	5.4	>10000	334	<2	2720	165	373	3.38	<10	5	<1	<10	1.25	195	158	17.9	<0.01	1.61	0.14	0.008	<10	2	<10
23767 Dup	13.6	5.2	>10000	332	<2	2650	165	375	3.32	<10	5	<1	<10	1.25	188	157	15.7	<0.01	1.55	0.13	0.008	<10	2	<10
23761 Ong	12.1	30.6	6110	366	<2	735	274	1230	3.06	<10	38	<1	13	1.07	551	117	10.7	0.10	1.75	0.20	0.019	<10	5	12
23761 Dup	11.6	31.4	6290	403	<2	784	294	1290	3.41	<10	29	<1	11	1.20	545	131	11.3	0.11	1.88	0.23	0.019	<10	5	13
23764 Ong	<0.2	<0.5	91	430	<2	19	7	172	3.65	<10	118	<1	<10	0.80	14	77	5.23	0.43	2.39	0.09	0.062	<10	6	<10
23764 Dup	<0.2	<0.5	95	428	<2	18	7	170	3.53	<10	117	<1	<10	0.79	12	76	5.29	0.43	2.41	0.08	0.052	<10	6	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	4	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	177		73	133	22	18	0.188
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	73		66	13	12	11	1.890
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77
GXR-2 Meas	91		56	< 10	12	11	0.041
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	31		186	< 10	7	10	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
23703 Orig	12	0.07	25	< 10	2	2	0.018
23703 Dup	12	0.07	24	< 10	2	2	0.017
23717 Orig	61	0.02	29	< 10	< 1	3	3.901
23717 Dup	60	0.02	27	< 10	< 1	3	3.249
23730 Orig	2	< 0.01	< 1	< 10	< 1	4	0.007
23730 Dup	2	< 0.01	< 1	< 10	< 1	4	0.006
23744 Orig	4	0.04	26	< 10	1	3	1.857
23744 Dup	4	0.04	26	< 10	1	3	1.842
23767 Orig	20	0.02	62	< 10	< 1	5	6.816
23767 Dup	19	0.02	61	< 10	< 1	5	5.819
23761 Orig	21	0.03	112	< 10	2	3	4.032
23761 Dup	23	0.06	119	< 10	2	3	4.363
23764 Orig	13	0.11	88	< 10	7	6	0.181
23764 Dup	13	0.11	88	< 10	7	5	0.183
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 02-Jun-08
Invoice No.: A08-2868
Invoice Date: 17-Jun-08
Your Reference: DOSSIER 22347

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

57 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2868**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

Insufficient sample 28101

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Administration

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Activation Laboratories Ltd. Report: A08-2868

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28067	< 0.2	< 0.5	177	181	< 2	20	< 2	29	2.47	< 10	123	1	< 10	0.18	9	166	2.08	0.29	1.54	0.08	0.006	< 10	4	< 10
28068	< 0.2	< 0.5	121	244	< 2	16	< 2	37	3.01	< 10	458	< 1	< 10	0.08	8	180	2.80	0.54	1.96	0.06	0.005	< 10	7	< 10
28069	0.5	0.7	433	133	< 2	27	< 2	26	2.00	< 10	87	1	< 10	0.14	7	145	1.66	0.18	1.27	0.06	0.008	< 10	5	< 10
28069	< 0.2	< 0.5	3	14	< 2	< 1	< 2	2	0.03	< 10	7	< 1	< 10	0.19	< 1	2	0.03	0.01	0.01	0.004	< 10	< 1	< 10	
28061	0.7	0.9	809	136	< 2	193	6	54	3.13	< 10	90	< 1	< 10	0.82	34	361	4.16	0.87	2.70	0.17	0.009	< 10	8	< 10
28062	1.5	1.6	662	431	< 2	66	13	110	3.50	< 10	114	< 1	< 10	1.38	15	130	4.54	0.41	2.13	0.25	0.037	< 10	6	< 10
28063	5.2	3.5	2030	261	< 2	141	15	150	4.66	< 10	53	< 1	< 10	2.22	25	101	5.26	0.81	1.94	0.23	0.031	< 10	5	< 10
28064	3.8	2.9	1990	240	< 2	190	13	148	4.84	< 10	61	< 1	< 10	2.27	29	??	6.49	0.88	2.07	0.20	0.035	< 10	6	< 10
28065	2.8	2.7	1120	334	< 2	143	13	147	4.20	< 10	88	< 1	< 10	2.03	20	101	4.90	0.47	1.98	0.15	0.040	< 10	4	< 10
28066	< 0.2	< 0.5	182	379	< 2	46	6	27	3.64	< 10	15	< 1	< 10	3.40	24	78	3.91	0.03	1.05	0.34	0.049	< 10	10	< 10
28067	1.0	0.8	334	115	< 2	80	33	27	7.44	< 10	23	< 1	< 10	5.53	12	112	1.06	0.03	0.85	0.76	0.013	< 10	2	< 10
28069	0.5	< 0.5	175	93	< 2	81	24	13	6.66	< 10	15	< 1	< 10	5.10	11	104	0.92	0.02	0.68	0.72	0.010	< 10	3	< 10
28069	4.1	1.6	1920	126	< 2	728	40	34	4.82	< 10	11	< 1	< 10	3.81	56	128	3.12	0.01	0.74	0.57	0.010	< 10	4	< 10
28100	0.9	2.3	9120	303	< 2	> 10000	3	43	0.50	< 10	4	< 1	< 10	0.40	562	34	33.5	0.11	0.17	0.08	0.051	< 10	4	< 10
28101																								
28102	3.4	1.3	1680	111	< 2	450	43	35	5.25	< 10	14	< 1	< 10	4.16	34	137	2.06	0.02	0.82	0.60	0.006	< 10	4	< 10
28103	9.2	3.5	4310	129	< 2	1280	36	60	4.14	< 10	11	< 1	< 10	3.24	79	115	4.91	0.01	0.82	0.52	0.007	< 10	4	< 10
28104	11.7	4.0	5700	126	< 2	2190	30	67	4.08	< 10	13	< 1	< 10	3.09	137	90	7.49	0.01	0.76	0.46	0.006	< 10	4	< 10
28105	10.0	3.7	4730	120	< 2	1150	37	72	4.84	< 10	31	< 1	< 10	3.58	80	147	5.11	0.13	1.08	0.47	0.007	< 10	4	< 10
28105	4.4	3.4	2930	93	< 2	1910	40	66	4.71	< 10	17	< 1	< 10	3.07	77	244	7.23	0.30	1.35	0.38	0.020	< 10	4	< 10
28107	2.3	2.2	1440	100	< 2	709	66	45	5.42	< 10	10	< 1	< 10	4.27	49	284	3.38	0.03	0.83	0.42	0.007	< 10	5	< 10
28108	0.3	< 0.5	372	228	< 2	130	15	23	5.23	< 10	25	< 1	< 10	4.02	28	81	2.52	0.02	0.58	0.53	0.078	< 10	4	< 10
28109	4.9	5.3	3300	119	< 2	909	73	82	5.66	< 10	25	< 1	< 10	4.04	61	354	5.16	0.14	1.35	0.33	0.009	< 10	5	< 10
28110	< 0.2	< 0.5	6	14	< 2	4	< 2	2	0.04	< 10	9	< 1	< 10	0.18	< 1	7	0.03	0.01	0.02	0.02	0.003	< 10	< 1	< 10
28112	5.3	5.9	4020	156	< 2	2030	67	108	4.42	< 10	22	< 1	< 10	2.77	155	206	9.32	0.17	1.63	0.21	0.008	< 10	3	< 10
28113	1.7	2.8	1310	224	< 2	1700	112	119	4.11	< 10	27	< 1	< 10	2.20	93	532	6.13	0.16	2.35	0.13	0.007	< 10	3	< 10
28114	2.8	4.8	2330	191	< 2	1130	164	165	5.42	< 10	13	< 1	< 10	3.50	98	104	5.66	0.04	1.08	0.47	0.010	< 10	2	< 10
28115	4.7	8.6	4300	342	< 2	1190	90	372	3.71	< 10	8	< 1	< 10	1.42	246	178	12.6	0.06	2.48	0.22	0.010	< 10	5	< 10
28115	0.6	1.5	437	230	< 2	288	204	109	2.89	< 10	31	< 1	< 10	1.90	41	151	3.44	0.05	1.12	0.37	0.011	< 10	3	< 10
28117	2.8	3.0	2790	507	< 2	624	70	281	2.81	13	38	< 1	< 10	1.74	51	122	7.89	0.20	2.40	0.09	0.031	< 10	10	< 10
28118	12.7	12.7	7960	406	< 2	2280	264	506	2.77	< 10	10	< 1	< 10	1.66	228	169	14.9	0.15	1.60	0.17	0.026	< 10	7	< 10
28119	5.0	7.8	4090	194	< 2	3590	191	281	3.32	< 10	13	< 1	< 10	1.54	146	143	15.7	0.10	1.01	0.34	0.021	< 10	3	< 10
28121	9.0	9.2	5650	236	< 2	1950	330	511	4.03	< 10	19	< 1	< 10	2.30	89	94	10.8	0.10	1.15	0.36	0.023	< 10	3	< 10
28122	27.7	21.3	> 10000	489	< 2	4580	188	838	2.16	< 10	5	< 1	< 10	1.16	441	50	26.0	0.07	1.41	0.05	0.027	< 10	4	18
28123	2.5	6.3	1540	464	< 2	173	167	518	3.72	< 10	71	< 1	< 10	1.20	45	68	7.85	0.78	3.31	0.10	0.077	< 10	13	11
28124	1.1	1.4	1020	699	< 2	305	32	237	3.22	< 10	90	< 1	< 10	0.45	27	93	6.27	0.58	2.71	0.06	0.076	< 10	9	< 10
28125	< 0.2	0.5	70	747	3	16	13	118	3.15	< 10	123	< 1	< 10	1.60	17	86	4.96	0.49	2.25	0.08	0.083	< 10	9	< 10
28125	< 0.2	0.8	36	708	< 2	17	20	146	4.25	< 10	333	< 1	< 10	1.44	18	122	5.35	1.10	2.28	0.25	0.088	< 10	12	< 10
28127	< 0.2	0.7	20	590	< 2	14	28	155	3.31	< 10	118	< 1	< 10	2.16	18	64	6.04	0.46	2.96	0.06	0.085	< 10	10	< 10
28128	0.3	0.8	95	967	< 2	11	54	185	3.89	< 10	141	< 1	< 10	2.13	18	103	5.11	0.48	2.70	0.13	0.098	< 10	10	< 10
28128	< 0.2	0.7	11	343	< 2	11	41	133	4.87	< 10	438	< 1	< 10	2.04	15	78	4.63	1.23	2.55	0.42	0.090	< 10	11	< 10
28130	< 0.2	< 0.5	3	13	< 2	< 1	< 2	2	0.03	< 10	10	< 1	< 10	0.04	< 1	3	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10
28131	0.3	0.5	17	339	< 2	8	20	113	3.51	< 10	276	< 1	< 10	1.64	14	68	3.78	0.91	1.90	0.27	0.089	< 10	9	< 10
28132	0.2	0.5	59	452	< 2	11	18	119	3.67	< 10	241	< 1	< 10	1.48	16	93	4.29	1.06	2.31	0.21	0.076	< 10	9	< 10
28133	< 0.2	< 0.5	8	393	< 2	19	6	65	2.40	< 10	157	< 1	< 10	0.52	5	168	2.18	0.98	1.95	0.01	0.010	< 10	4	< 10
28134	< 0.2	< 0.5	4	359	< 2	8	4	83	2.73	< 10	115	< 1	< 10	0.36	5	121	2.40	0.93	2.19	0.09	0.006	< 10	3	< 10
28136	< 0.2	< 0.6	6	510	< 2	9	11	103	3.43	< 10	189	< 1	< 10	1.27	5	149	2.68	0.65	2.31	0.12	0.013	< 10	6	< 10
28138	< 0.2	< 0.5	9	736	< 2	18	4	130	3.15	< 10	137	< 1	< 10	1.52	9	114	3.93	0.46	2.88	0.08	0.028	< 10	7	< 10
28137	< 0.2	< 0.5	3	521	< 2	7	2	83	2.30	< 10	36	< 1	< 10	0.23	5	145	2.94	0.21	2.64	0.02	0.017	< 10	2	< 10
28138	1.8	2.0	242	477	< 2	341	87	569	1.70	< 10	38	< 1	< 10	1.21	77	165	4.63	0.24	1.45	0.02	0.039	< 10	5	< 10
28139	0.4	1.3	435	544	< 2	25	3	270	2.46	< 10	69	< 1	< 10	0.60	26	124	5.94	0.48	1.83	0.04	0.033	< 10	4	< 10
28140	0.6	< 0.5	1460	301	< 2	1620	7	27	5.67	< 10	21	< 1	< 10	2.85	54	163	3.67	0.02	3.30	0.32	0.003	< 10	3	< 10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	10	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28141	< 0.2	0.6	21	413	5	11	3	154	2.33	< 10	91	< 1	< 10	0.24	6	143	3.99	0.52	1.75	0.03	0.018	< 10	3	< 10
28142	< 0.2	< 0.5	5	329	< 2	8	< 2	47	1.66	< 10	40	< 1	< 10	0.10	3	127	2.40	0.21	1.86	0.02	0.019	< 10	1	< 10
28143	< 0.2	0.6	19	620	< 2	30	< 2	74	2.64	< 10	19	< 1	< 10	2.82	23	111	6.19	0.07	1.83	0.17	0.040	< 10	12	< 10
28144	< 0.2	0.6	19	604	< 2	29	2	74	2.55	< 10	18	< 1	< 10	2.79	23	102	5.02	0.06	1.80	0.16	0.043	< 10	12	< 10
28145	< 0.2	0.7	111	927	< 2	44	< 2	230	3.64	< 10	321	< 1	< 10	1.16	24	119	5.61	0.80	2.90	0.17	0.078	< 10	12	< 10

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Sr	Tl	V	W	Y	Zr	S
	ppm 1	% 0.01	ppm 1	ppm 10	ppm 1	ppm 1	% 0.001
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28067	11	0.08	22	< 10	2	3	0.071
28068	7	0.07	21	< 10	2	2	0.033
28069	14	0.08	17	< 10	2	3	0.113
28060	2	< 0.01	< 1	< 10	1	5	0.008
28061	13	0.13	69	< 10	2	3	0.624
28062	30	0.10	38	< 10	8	3	0.425
28063	32	0.10	63	< 10	4	3	0.964
28064	30	0.11	82	< 10	5	3	1.089
28065	27	0.12	59	< 10	9	3	0.799
28066	68	0.08	107	< 10	8	2	0.380
28067	108	0.02	18	< 10	1	< 1	0.187
28068	102	0.02	15	< 10	< 1	< 1	0.148
28069	80	0.02	23	< 10	< 1	1	1.387
28100	15	0.10	60	< 10	16	18	8.000
28101							
28102	86	0.02	21	< 10	< 1	< 1	0.786
28103	66	0.02	23	< 10	< 1	2	2.418
28104	60	0.02	26	< 10	< 1	2	4.114
28105	65	0.03	30	< 10	< 1	1	2.258
28106	62	0.05	39	< 10	1	3	3.626
28107	65	0.02	33	< 10	1	1	1.192
28108	81	0.09	73	< 10	5	2	0.585
28109	60	0.04	54	< 10	1	2	1.755
28110	2	< 0.01	< 1	< 10	1	6	0.019
28112	44	0.04	41	< 10	< 1	2	4.077
28113	33	0.05	61	< 10	< 1	2	1.909
28114	64	0.02	35	< 10	2	2	2.284
28115	26	0.05	105	< 10	1	3	6.517
28116	42	0.04	76	< 10	1	1	0.817
28117	13	0.09	136	< 10	6	3	1.565
28118	20	0.07	141	< 10	3	4	6.139
28119	38	0.03	107	< 10	2	4	7.196
28121	43	0.03	117	< 10	2	3	4.548
28122	8	0.05	110	15	3	6	8.110
28123	9	0.14	133	< 10	7	6	1.040
28124	9	0.11	66	< 10	10	6	0.937
28125	12	0.14	66	< 10	12	6	0.189
28126	17	0.18	60	< 10	7	6	0.052
28127	11	0.18	74	< 10	11	4	0.039
28128	18	0.18	79	< 10	13	5	0.079
28129	32	0.15	84	< 10	8	5	0.020
28130	1	< 0.01	< 1	< 10	< 1	4	0.018
28131	24	0.15	74	< 10	9	7	0.038
28132	20	0.17	73	< 10	10	6	0.157
28133	10	0.08	7	< 10	10	24	0.010
28134	14	0.07	2	< 10	9	24	0.007
28135	17	0.09	5	< 10	12	16	0.016
28136	16	0.13	28	< 10	16	13	0.034
28137	4	0.04	5	< 10	20	15	0.012
28138	6	0.06	35	< 10	9	6	1.659
28139	7	0.07	20	< 10	12	8	0.921
28140	66	0.01	33	< 10	< 1	1	0.517

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28141	5	0.07	8	< 10	10	10	0.090
28142	3	0.02	3	< 10	13	14	0.022
28143	21	0.11	145	< 10	9	2	0.056
28144	20	0.10	142	< 10	9	2	0.057
28145	12	0.15	153	< 10	10	6	0.037

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.8	3.3	1080	775	14	34	577	632	0.64	333	199	<1	1390	0.84	10	6	23.0	0.03	0.18	0.06	0.039	73	1	29
GXR-1 Cert	31.0	3.3	1110	852	18	41	730	760	3.52	427	750	1	1380	0.96	8	12	23.6	0.05	0.22	0.05	0.065	122	2	54
GXR-4 Meas	3.5	0.6	6080	145	347	41	44	56	2.72	98	20	1	17	1.01	17	58	3.41	1.34	1.73	0.12	0.123	<10	7	<10
GXR-4 Cert	4.0	0.9	6620	156	310	42	62	73	7.20	98	1640	2	16	1.01	15	64	3.09	4.01	1.65	0.65	0.120	5	8	6
GXR-2 Meas	20.1	5.1	87	1150	<2	20	813	586	3.61	14	1040	1	<10	0.84	12	29	2.33	0.61	0.58	0.21	0.064	36	5	<10
GXR-2 Cert	17.0	4.1	78	1037	2	21	890	530	16.50	25	2240	2	1	0.93	9	35	1.86	1.37	0.85	0.56	0.105	49	7	2
GXR-6 Meas	0.3	0.5	66	1070	<2	24	97	121	7.17	226	84	<1	<10	0.16	16	88	5.13	0.95	0.43	0.11	0.033	<10	23	<10
GXR-6 Cert	1.3	1.0	66	1007	2	27	101	118	17.70	330	1300	1	0	0.18	14	95	5.58	1.87	0.61	0.10	0.035	4	28	2
OREAS 13P Meas			2740			2400											5.77							
OREAS 13P Cert			2500			2261											7.58							
28055 Ong	4.1	1.4	1900	125	<2	726	39	34	4.75	<10	11	<1	<10	3.77	55	127	3.10	0.01	0.73	0.57	0.010	<10	4	<10
28095 Dup	4.2	1.8	1930	127	<2	730	41	34	4.60	<10	11	<1	<10	3.84	55	128	3.14	0.01	0.75	0.56	0.011	<10	4	<10
28114 Ong	2.6	4.5	2340	190	<2	1130	166	155	5.42	<10	14	<1	<10	3.50	98	104	5.66	0.04	1.06	0.47	0.009	<10	2	<10
28114 Dup	2.8	4.7	2330	191	<2	1130	162	155	5.43	<10	13	<1	<10	3.50	98	105	5.66	0.04	1.08	0.48	0.010	<10	2	<10
28128 Ong	0.3	0.8	56	869	<2	12	53	155	3.51	<10	139	<1	<10	2.12	18	104	5.11	0.46	2.71	0.13	0.096	<10	10	<10
28128 Dup	0.3	0.8	53	856	<2	10	55	156	3.81	<10	143	<1	<10	2.14	18	102	5.11	0.46	2.70	0.13	0.096	<10	10	<10
28142 Ong	<0.2	<0.5	5	327	<2	8	<2	47	2.00	<10	40	<1	<10	0.10	4	127	2.40	0.20	1.86	0.02	0.019	<10	1	<10
28142 Dup	<0.2	<0.5	5	331	<2	7	<2	47	1.96	<10	41	<1	<10	0.10	3	128	2.41	0.21	1.86	0.02	0.019	<10	1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.01	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.01	<10	<1	<10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	175		74	128	23	17	0.186
GXR-1 Cert	275		80	164	32	38	0.257
GXR-4 Meas	69		87	11	12	10	1.926
GXR-4 Cert	221		87	31	14	186	1.770
GXR-2 Meas	89		54	< 10	12	11	0.040
GXR-2 Cert	180		52	2	17	289	0.031
GXR-6 Meas	30		182	< 10	6	10	0.015
GXR-6 Cert	35		186	2	14	110	0.016
OREAS 13P Meas							
OREAS 13P Cert							
28055 Orig	79	0.02	23	< 10	< 1	1	1.368
28065 Dup	81	0.02	23	< 10	< 1	1	1.406
28114 Orig	64	0.02	36	< 10	2	2	2.364
28114 Dup	65	0.02	36	< 10	2	2	2.204
28125 Orig	18	0.16	79	< 10	13	5	0.078
28125 Dup	18	0.16	79	< 10	13	5	0.081
28142 Orig	3	0.02	3	< 10	13	14	0.023
28142 Dup	3	0.02	3	< 10	13	14	0.020
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 02-Jun-08
Invoice No.: A08-2869
Invoice Date: 17-Jun-08
Your Reference: DOSSIER 22348

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

60 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2869**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

no sample available

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Administration

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2869

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
23667	0.3	0.8	269	349	< 2	27	11	42	2.26	< 10	35	< 1	< 10	0.75	10	92	2.89	0.19	1.93	0.05	0.029	< 10	3	< 10	
23668	< 0.2	0.6	16	241	2	7	3	21	1.86	< 10	34	< 1	< 10	0.73	7	156	2.46	0.17	1.61	0.02	0.041	< 10	1	< 10	
23669	0.2	1.1	90	482	< 2	52	8	46	2.53	< 10	22	< 1	< 10	1.74	21	157	4.16	0.11	2.51	0.02	0.028	< 10	8	< 10	
23670	< 0.2	< 0.5	3	14	< 2	< 1	< 2	1	0.03	< 10	7	< 1	< 10	0.15	< 1	2	0.03	0.01	0.01	< 0.01	0.003	< 10	< 1	< 10	
23671	< 0.2	0.7	37	379	< 2	12	< 2	28	2.27	< 10	32	< 1	< 10	0.75	11	109	3.17	0.15	1.85	0.02	0.038	< 10	3	< 10	
23672	9.4	11.3	6700	282	< 2	2540	335	543	2.10	< 10	16	< 1	< 10	0.96	143	89	13.9	0.96	1.63	0.02	0.033	< 10	3	15	
23673	12.6	9.8	6100	763	< 2	1890	810	589	3.99	< 10	19	< 1	< 10	0.48	163	74	14.4	0.99	4.11	0.02	0.027	< 10	10	19	
23674	3.9	7.7	5210	914	< 2	1440	212	573	3.40	< 10	12	< 1	< 10	0.93	173	137	12.6	0.95	3.66	0.02	0.014	< 10	9	< 10	
23675	5.1	5.8	2410	670	< 2	1660	426	484	3.31	< 10	15	< 1	< 10	1.2	105	257	214	12.5	0.96	3.70	0.02	0.012	< 10	7	< 10
23676	24.0	21.5	> 10000	544	< 2	201	499	1200	2.48	< 10	14	< 1	< 10	1.57	85	167	7.00	0.05	1.71	0.04	0.021	< 10	6	25	
28208	2.8	1.8	1790	142	< 2	1100	15	39	4.85	< 10	14	< 1	< 10	3.15	76	131	3.34	0.93	1.54	0.26	0.095	< 10	2	< 10	
28205	3.8	1.8	2470	106	< 2	1420	13	33	4.74	< 10	12	< 1	< 10	3.04	103	125	4.04	0.93	1.46	0.26	0.095	< 10	3	< 10	
28210																									
28211	3.2	1.3	2300	100	< 2	1390	7	23	3.95	< 10	10	< 1	< 10	2.62	121	97	4.17	0.92	1.34	0.26	0.096	< 10	3	< 10	
28212	2.6	1.5	1720	120	< 2	1120	10	23	2.68	< 10	10	< 1	< 10	1.51	117	107	3.92	0.02	1.61	0.16	0.007	< 10	3	< 10	
28213	3.3	1.7	2090	112	< 2	1210	9	28	3.66	< 10	10	< 1	< 10	2.30	102	77	3.97	0.92	1.30	0.29	0.094	< 10	3	< 10	
28214	4.4	2.9	2770	100	< 2	1510	12	34	5.27	< 10	10	< 1	< 10	3.46	116	76	4.63	0.92	1.19	0.43	0.007	< 10	3	< 10	
28215	4.9	3.1	3020	71	< 2	1480	14	31	5.32	< 10	11	< 1	< 10	3.46	115	42	4.44	0.91	0.86	0.46	0.094	< 10	2	< 10	
28216	3.1	2.1	1610	107	< 2	1070	12	28	5.20	< 10	9	< 1	< 10	3.51	111	47	3.96	0.02	0.93	0.42	0.094	< 10	3	< 10	
28217	1.5	1.7	1290	182	< 2	1060	17	32	5.15	< 10	8	< 1	< 10	3.48	51	51	4.86	0.92	1.23	0.36	0.097	< 10	4	< 10	
24103	< 0.2	1.0	29	500	< 2	316	< 2	39	3.47	< 10	6	< 1	< 10	0.66	43	227	4.60	0.91	4.72	0.06	0.095	< 10	2	< 10	
24104	0.2	0.6	333	215	< 2	84	4	17	2.48	< 10	54	< 1	< 10	2.05	24	90	2.42	0.02	1.18	0.22	0.035	< 10	7	< 10	
24105	< 0.2	0.7	34	393	< 2	133	5	31	4.78	< 10	7	< 1	< 10	6.43	22	400	3.55	0.91	2.60	0.05	0.093	< 10	8	< 10	
24106	< 0.2	< 0.5	14	188	< 2	160	3	24	7.38	< 10	69	< 1	< 10	4.40	22	443	2.79	0.20	2.74	0.47	0.093	< 10	3	< 10	
24107	0.4	0.7	436	195	< 2	232	3	40	7.90	< 10	87	< 1	< 10	4.12	36	713	4.53	0.27	4.04	0.33	0.094	< 10	6	< 10	
24108	0.3	2.4	280	128	< 2	86	8	50	4.67	< 10	161	< 1	< 10	2.07	18	344	2.35	0.40	2.09	0.29	0.096	< 10	5	< 10	
24109	0.5	< 0.5	198	64	< 2	55	< 2	12	4.25	< 10	80	< 1	< 10	2.81	10	170	1.07	0.19	1.09	0.26	0.094	< 10	2	< 10	
24110	0.9	2.9	8930	239	< 2	> 10000	10	39	0.49	< 10	24	< 1	< 10	0.35	522	30	32.4	0.11	0.15	0.06	0.045	< 10	3	< 10	
24111	1.2	< 0.5	519	73	< 2	80	7	14	6.94	< 10	51	< 1	< 10	4.48	10	124	1.19	0.13	1.04	0.42	0.010	< 10	3	< 10	
24112	< 0.2	0.5	55	146	< 2	140	5	21	6.83	< 10	54	< 1	< 10	4.34	19	475	2.40	0.31	2.69	0.32	0.094	< 10	5	< 10	
24161	4.8	2.0	2170	148	< 2	1280	30	30	4.23	< 10	24	< 1	< 10	3.10	97	141	5.71	0.93	0.86	0.64	0.017	< 10	4	< 10	
24162	6.2	2.3	2980	144	< 2	883	35	38	4.48	< 10	18	< 1	< 10	3.29	101	133	4.45	0.93	0.84	0.58	0.013	< 10	4	< 10	
24163	6.2	2.5	2510	154	< 2	812	36	36	4.68	< 10	20	< 1	< 10	3.37	75	143	4.25	0.94	0.90	0.55	0.010	< 10	4	< 10	
24164	8.2	3.1	2940	141	< 2	968	36	43	4.61	< 10	24	< 1	< 10	3.28	66	127	4.53	0.95	0.83	0.49	0.099	< 10	4	< 10	
24165	2.1	1.0	445	126	< 2	147	39	16	4.65	< 10	16	< 1	< 10	3.42	18	116	1.36	0.03	0.75	0.63	0.010	< 10	4	< 10	
24166	1.7	3.1	480	184	< 2	220	48	69	5.02	< 10	50	< 1	< 10	3.59	25	143	2.46	0.20	1.41	0.52	0.015	< 10	5	< 10	
24167	3.0	1.8	590	211	< 2	217	52	31	5.13	< 10	40	< 1	< 10	4.10	24	251	2.28	0.16	1.48	0.53	0.098	< 10	6	< 10	
24168	6.7	4.0	1560	154	< 2	503	42	35	3.71	< 10	10	< 1	< 10	2.93	71	148	2.54	0.02	0.91	0.45	0.010	< 10	4	< 10	
24169	3.2	1.7	946	211	< 2	283	64	29	4.63	< 10	15	< 1	< 10	3.73	27	166	2.78	0.93	1.63	0.47	0.099	< 10	6	< 10	
24180	1.0	2.9	8750	225	< 2	> 10000	8	38	0.48	< 10	26	< 1	< 10	0.35	523	30	32.1	0.11	0.15	0.07	0.044	< 10	3	< 10	
24123	3.9	3.7	1830	209	< 2	401	57	50	4.47	< 10	36	< 1	< 10	3.19	41	177	4.21	0.98	1.34	0.50	0.014	< 10	5	< 10	
24124	0.2	0.5	132	178	< 2	61	8	35	4.47	< 10	58	< 1	< 10	2.58	12	162	2.32	0.33	1.93	0.23	0.094	< 10	4	< 10	
24125	< 0.2	0.6	121	172	< 2	67	4	47	2.61	< 10	71	< 1	< 10	1.11	21	218	2.89	0.45	1.73	0.15	0.013	< 10	8	< 10	
24126	< 0.2	0.5	76	205	< 2	77	9	43	5.04	< 10	9	< 1	< 10	4.40	18	97	2.32	0.02	1.04	0.36	0.027	< 10	7	< 10	
24127	< 0.2	0.7	51	253	< 2	71	10	48	3.66	< 10	47	< 1	< 10	2.27	23	174	2.70	0.19	1.48	0.36	0.025	< 10	6	< 10	
24128	9.2	1.8	6250	374	< 2	320	< 2	210	4.54	< 10	51	< 1	< 10	0.68	43	57	6.76	0.18	4.55	0.05	0.095	< 10	9	< 10	
24129	0.5	0.6	361	77	< 2	68	11	24	8.33	< 10	14	< 1	< 10	6.99	8	133	0.96	0.05	0.63	0.40	0.010	< 10	3	< 10	
24130	< 0.2	< 0.5	3	13	< 2	< 1	< 2	1	0.05	< 10	8	< 1	< 10	0.11	< 1	2	0.04	0.01	0.01	< 0.01	0.003	< 10	< 1	< 10	
24131	1.1	1.0	681	164	< 2	523	4	55	3.87	< 10	20	< 1	< 10	2.26	42	124	2.87	0.11	2.63	0.13	0.096	< 10	3	< 10	
24132	2.6	1.4	1590	90	< 2	579	11	35	6.21	< 10	13	< 1	< 10	4.42	38	88	1.83	0.96	1.05	0.30	0.007	< 10	3	< 10	
24203	15.8	16.5	> 10000	430	< 2	1520	258	584	3.69	< 10	54	< 1	< 10	2.24	432	62	14.6	0.15	1.80	0.17	0.014	< 10	7	< 10	
24204	12.8	15.3	8370	182	< 2	1480	496	552	4.70	< 10	26	< 1	< 10	2.67	138	47	11.7	0.95	0.86	0.31	0.017	< 10	3	< 10	

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24205	16.9	9.5	> 10000	211	< 2	4270	190	343	2.39	< 10	55	< 1	< 10	0.90	322	114	22.7	0.16	1.02	0.13	0.011	< 10	3	< 10
24206	16.6	13.7	> 10000	219	< 2	2740	309	497	3.31	< 10	28	< 1	< 10	1.60	247	111	17.3	0.06	1.18	0.21	0.013	< 10	3	< 10
24207	18.7	20.8	2950	209	< 2	738	1590	481	4.71	< 10	18	< 1	41	2.60	74	184	8.20	0.05	1.20	0.43	0.013	< 10	4	< 10
24208	6.6	8.6	3780	142	< 2	6290	201	285	2.05	< 10	12	< 1	13	0.82	258	120	32.4	0.05	0.62	0.15	0.008	< 10	2	< 10
24209	5.6	8.5	2900	271	< 2	1730	194	673	3.58	< 10	39	< 1	< 10	1.26	88	164	13.0	0.96	1.89	0.21	0.018	< 10	5	< 10
24210	< 0.2	< 0.5	7	16	< 2	3	< 2	4	0.04	< 10	8	< 1	< 10	0.16	< 1	3	0.06	0.01	0.02	< 0.01	0.003	< 10	< 1	< 10
24211	11.7	11.0	5230	598	< 2	281	25	486	2.67	< 10	50	< 1	< 10	1.31	52	94	6.51	0.25	2.13	0.05	0.043	< 10	11	< 10
24212	0.2	1.4	101	848	< 2	28	18	155	4.15	< 10	206	< 1	< 10	0.71	19	96	6.30	0.78	3.12	0.12	0.070	< 10	10	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23667	8	0.10	14	< 10	22	6	0.142
23668	3	0.05	5	< 10	20	11	0.038
23669	10	0.08	88	< 10	14	6	0.155
23670	2	< 0.01	< 1	< 10	< 1	4	0.007
23671	8	0.12	13	< 10	25	10	0.061
23672	9	0.07	23	< 10	10	8	5.938
23673	5	0.11	63	< 10	10	5	4.382
23674	5	0.05	42	< 10	8	4	3.968
23675	9	0.04	49	< 10	6	4	4.211
23676	11	0.08	76	< 10	9	6	2.132
28208	65	0.02	18	< 10	< 1	1	1.182
28209	65	0.01	20	< 10	< 1	1	1.716
28210							
28211	54	0.01	20	< 10	< 1	2	1.920
28212	25	0.02	22	< 10	< 1	2	1.740
28213	43	0.01	20	< 10	< 1	2	1.762
28214	63	0.01	22	< 10	< 1	2	2.128
28215	64	< 0.01	16	< 10	< 1	1	2.010
28218	62	0.02	19	< 10	< 1	1	1.751
28217	59	0.02	25	< 10	< 1	2	1.900
24103	4	0.04	26	< 10	1	2	0.074
24104	44	0.08	60	< 10	4	1	0.359
24105	12	0.04	56	< 10	1	1	0.048
24106	95	0.07	90	< 10	< 1	< 1	0.031
24107	71	0.09	75	< 10	< 1	1	0.312
24108	59	0.07	45	< 10	2	2	0.133
24109	40	0.03	23	< 10	1	1	0.078
24110	15	0.07	60	< 10	15	17	5.283
24111	55	0.02	20	< 10	1	< 1	0.104
24112	62	0.05	47	< 10	< 1	< 1	0.037
24151	63	0.03	31	< 10	1	2	2.484
24152	67	0.03	32	< 10	1	2	1.951
24153	70	0.03	32	< 10	1	2	1.736
24154	70	0.03	28	< 10	1	2	1.948
24155	71	0.03	26	< 10	1	< 1	0.255
24156	68	0.05	40	< 10	1	< 1	0.332
24157	72	0.04	38	< 10	1	< 1	0.237
24158	58	0.04	29	< 10	1	1	0.870
24159	62	0.04	36	< 10	1	1	0.432
24180	15	0.07	59	< 10	15	16	5.812
24123	62	0.05	53	< 10	2	1	1.093
24124	40	0.04	23	< 10	2	2	0.047
24125	15	0.12	99	< 10	4	2	0.201
24126	57	0.08	61	< 10	4	< 1	0.175
24127	35	0.12	101	< 10	3	1	0.100
24128	12	0.07	74	< 10	4	3	1.177
24129	114	0.03	26	< 10	2	< 1	0.099
24130	2	< 0.01	< 1	< 10	< 1	4	0.012
24131	33	0.05	26	< 10	< 1	1	0.348
24132	64	0.02	21	< 10	< 1	< 1	0.652
24203	34	0.03	106	< 10	1	4	3.179
24204	65	0.01	73	< 10	1	3	2.176

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24205	18	0.03	121	< 10	< 1	6	3.781
24206	25	0.02	97	< 10	1	4	3.798
24207	50	0.02	154	< 10	1	2	2.248
24208	16	0.02	99	< 10	< 1	8	5.345
24209	20	0.10	66	< 10	4	6	3.893
24210	2	< 0.01	< 1	< 10	1	5	0.013
24211	14	0.13	144	< 10	8	4	1.954
24212	25	0.15	89	< 10	11	6	0.108

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	23.4	3.3	1030	710	13	31	498	581	0.52	299	323	<1	1280	0.79	8	6	22.1	0.03	0.14	0.08	0.031	83	1	25
GXR-1 Cert	31.0	3.3	1110	852	18	41	730	750	3.52	427	750	1	1380	0.96	8	12	23.6	0.05	0.22	0.05	0.065	122	2	54
GXR-4 Meas	3.3	0.5	6170	137	328	40	44	70	2.75	97	34	1	20	0.94	15	54	3.39	1.35	1.55	0.11	0.118	<10	7	<10
GXR-4 Cert	4.0	0.5	6520	155	310	42	62	73	7.20	98	1640	2	16	1.01	15	54	3.09	4.01	1.55	0.55	0.120	5	8	6
GXR-2 Meas	17.7	4.5	76	994	<2	16	719	527	3.40	13	1230	1	<10	0.82	10	24	2.06	0.51	0.52	0.26	0.053	31	5	<10
GXR-2 Cert	17.0	4.1	78	1037	2	21	890	530	16.50	25	2240	2	1	0.93	9	35	1.86	1.37	0.85	0.56	0.105	49	7	2
GXR-6 Meas	0.3	1.1	69	1010	<2	24	91	118	7.11	220	873	<1	<10	0.16	16	80	5.21	0.86	0.40	0.15	0.031	<10	22	<10
GXR-6 Cert	1.3	1.0	66	1007	2	27	101	118	17.70	330	1300	1	0	0.18	14	95	5.58	1.87	0.51	0.10	0.035	4	28	2
OREAS 13P Meas			2650																					
OREAS 13P Cert			2500																					
24105 Ong	0.5	<0.5	207	65	<2	56	3	13	4.40	<10	81	<1	<10	2.66	10	173	1.09	0.20	1.11	0.27	0.004	<10	2	<10
24105 Dup	0.5	<0.5	190	63	<2	54	<2	11	4.11	<10	78	<1	<10	2.56	9	168	1.05	0.19	1.05	0.25	0.004	<10	2	<10
24150 Ong	1.0	2.5	8620	220	<2	>10000	9	38	0.50	<10	33	<1	<10	0.35	523	29	37.3	0.11	0.15	0.06	0.044	<10	3	<10
24150 Dup	1.0	2.5	8670	229	<2	>10000	8	38	0.45	<10	19	<1	<10	0.34	518	30	31.9	0.11	0.15	0.07	0.044	<10	3	<10
24205 Ong	16.5	13.7	>10000	216	<2	2630	311	495	3.30	<10	30	<1	<10	1.60	245	105	15.3	0.06	1.18	0.21	0.013	<10	3	<10
24205 Dup	16.7	13.7	>10000	221	<2	2640	307	498	3.30	<10	26	<1	<10	1.61	248	113	15.3	0.06	1.15	0.21	0.014	<10	3	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	144		89	114	21	17	0.168
GXR-1 Cert	275		80	164	32	38	0.257
GXR-4 Meas	59		85	13	12	10	1.833
GXR-4 Cert	221		87	31	14	186	1.770
GXR-2 Meas	89		47	< 10	11	13	0.035
GXR-2 Cert	180		52	2	17	289	0.031
GXR-6 Meas	31		173	< 10	6	12	0.015
GXR-6 Cert	35		186	2	14	110	0.016
OREAS 13P Meas							
OREAS 13P Cert							
24105 Orig	41	0.03	23	< 10	1	1	0.082
24105 Dup	38	0.03	22	< 10	1	1	0.074
24160 Orig	16	0.06	59	< 10	15	16	4.741
24160 Dup	15	0.07	59	< 10	15	18	6.483
24205 Orig	25	0.02	96	< 10	1	4	2.254
24205 Dup	26	0.02	99	< 10	1	5	5.342
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 02-Jun-08
Invoice No.: A08-2870
Invoice Date: 21-Jul-08
Your Reference: DOSSIER 22349

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

41 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-2870**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is fluid and cursive, written over a horizontal dotted line.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-2870 Revised

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.001	10	10	1	10
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24151	9.1	5.4	3670	208	<2	2360	31	108	2.73	<10	4	<1	<10	1.53	592	166	16.0	0.25	1.50	0.20	0.16	<10	4	<10
24162	13.2	3.5	6010	183	<2	4540	32	58	2.60	<10	6	<1	<10	1.54	283	169	17.6	0.18	1.06	0.18	0.008	<10	4	<10
24163	1.0	0.0	398	128	<2	238	57	22	4.65	<10	14	<1	<10	3.73	24	155	1.94	0.02	0.65	0.48	0.010	<10	3	<10
24164	4.6	2.0	1190	167	<2	510	52	29	4.03	<10	11	<1	<10	3.33	39	143	2.73	0.01	0.78	0.44	0.014	<10	4	<10
24165	0.2	<0.5	137	201	<2	90	15	18	4.45	<10	19	<1	<10	3.76	22	96	2.01	0.02	0.78	0.26	0.030	<10	5	<10
24166	6.3	3.2	1600	92	<2	490	60	32	4.43	<10	17	<1	<10	3.35	48	243	2.44	0.08	0.57	0.32	0.255	<10	3	<10
24167	4.9	2.1	1590	82	<2	1080	109	27	0.60	<10	11	<1	<10	5.20	58	218	3.50	0.03	0.64	0.41	0.015	<10	1	<10
24168	1.9	1.1	699	128	<2	609	89	37	5.84	<10	66	<1	<10	4.16	42	229	2.99	0.30	1.79	0.25	0.008	<10	3	<10
24169	3.8	1.5	1070	135	<2	1090	70	75	5.61	<10	29	<1	<10	2.01	72	306	5.44	1.19	4.52	0.14	0.004	<10	12	<10
24170	0.6	<0.5	1450	302	<2	1600	4	27	5.73	<10	21	<1	<10	2.90	54	166	3.45	0.02	3.27	0.33	0.003	<10	3	<10
24133	1.1	0.8	485	85	<2	233	10	20	3.67	<10	27	<1	<10	2.83	23	89	1.14	0.02	0.54	0.56	0.009	<10	3	<10
24134	1.0	<0.5	434	38	<2	504	6	17	1.45	<10	62	<1	<10	0.97	37	103	1.16	0.11	0.43	0.23	0.004	<10	1	<10
24135	1.8	1.1	705	42	<2	498	11	21	2.88	<10	53	<1	<10	2.01	40	100	1.18	0.10	0.46	0.47	0.004	<10	2	<10
24136	3.9	2.1	1170	142	<2	1350	36	26	2.78	<10	10	<1	<10	2.25	78	119	5.00	0.01	0.69	0.37	0.014	<10	4	<10
24137	1.7	0.6	688	144	<2	619	20	48	4.37	<10	90	<1	<10	3.01	49	168	3.09	0.39	1.63	0.44	0.011	<10	5	<10
24138	0.3	<0.5	190	209	<2	84	18	22	4.40	<10	39	<1	<10	3.81	20	70	1.86	0.08	0.82	0.36	0.028	<10	5	<10
24139	2.0	0.8	590	123	<2	328	31	18	5.30	<10	19	<1	<10	4.15	28	104	1.84	0.03	0.65	0.61	0.006	<10	3	<10
24140	0.6	0.5	1400	305	<2	1630	6	28	5.62	<10	22	<1	<10	2.93	55	166	3.55	0.02	3.33	0.32	0.003	<10	3	<10
24141	3.4	1.3	953	107	<2	383	34	29	5.14	<10	21	<1	<10	3.88	36	75	1.90	0.05	0.73	0.49	0.009	<10	2	<10
24142	3.3	1.4	1100	155	<2	406	37	28	4.65	<10	11	<1	<10	3.78	35	99	2.28	0.02	0.65	0.47	0.009	<10	3	<10
23658	0.8	<0.5	399	119	<2	171	41	14	5.08	<10	9	<1	<10	4.21	18	99	0.99	0.01	0.78	0.31	0.009	<10	2	<10
23659	0.7	<0.5	276	129	<2	157	48	20	5.14	<10	11	<1	<10	4.09	20	82	1.23	0.02	0.88	0.43	0.012	<10	2	<10
23660	1.0	1.6	9250	305	<2	>10000	6	42	0.51	<10	4	<1	<10	0.40	567	33	34.2	0.11	0.18	0.08	0.052	<10	4	<10
23661	0.6	<0.5	210	128	<2	124	41	17	4.68	<10	12	<1	<10	3.78	14	78	1.07	0.02	0.82	0.40	0.012	<10	2	<10
23662	0.4	<0.5	109	137	<2	53	37	16	3.42	<10	10	<1	<10	2.84	12	59	1.07	0.01	0.65	0.32	0.029	<10	2	<10
23663	0.3	<0.5	106	130	<2	62	37	17	3.38	<10	10	<1	<10	2.82	13	68	1.04	0.01	0.65	0.31	0.029	<10	2	<10
23664	1.8	0.8	542	78	<2	31	45	18	4.35	<10	9	<1	<10	3.62	7	70	0.73	0.03	0.63	0.50	0.011	<10	2	<10
23665	12.9	6.6	5560	180	<2	667	64	131	4.37	<10	19	<1	<10	3.18	52	114	4.43	0.07	1.17	0.34	0.018	<10	3	<10
23666	10.2	7.1	4510	111	<2	345	83	137	5.75	<10	19	<1	<10	4.41	27	117	2.77	0.07	0.77	0.38	0.010	<10	2	<10
23977	4.4	6.2	3270	333	<2	1970	66	194	3.74	<10	13	<1	<10	2.02	304	244	12.0	0.08	1.82	0.15	0.010	<10	3	<10
28218	10.3	13.1	>10000	816	<2	1730	140	794	3.13	<10	11	<1	<10	0.65	150	61	15.6	0.11	2.95	0.03	0.055	<10	12	>27
28219	2.2	1.8	2290	233	<2	1140	21	65	5.05	<10	10	<1	<10	3.20	139	45	5.87	0.02	1.82	0.35	0.008	<10	3	<10
28220	1.7	1.6	1720	208	<2	796	11	53	4.45	<10	12	<1	<10	2.59	101	60	4.94	0.04	1.75	0.31	0.006	<10	3	<10
28221	1.0	1.3	467	449	<2	311	5	100	3.64	<10	55	<1	<10	1.49	50	99	5.97	0.26	4.65	0.06	0.014	<10	14	<10
28222	1.2	1.1	615	73	<2	258	8	39	2.02	<10	14	<1	<10	1.20	49	95	2.18	0.05	0.74	0.26	0.002	<10	2	<10
28223	1.8	1.0	545	140	<2	250	9	45	1.42	<10	9	<1	<10	0.90	40	100	1.81	0.02	0.87	0.17	0.002	<10	2	<10
28224	0.8	0.5	144	104	<2	61	4	32	0.59	<10	8	<1	<10	0.55	11	50	1.04	0.01	0.80	0.12	0.002	<10	2	<10
28225	1.1	0.5	251	115	<2	86	4	34	1.40	<10	22	<1	<10	0.80	20	117	1.54	0.04	0.83	0.20	0.002	<10	3	<10
28226	4.4	2.3	2580	311	<2	109	3	104	2.61	<10	51	<1	<10	0.29	20	61	6.49	0.37	1.76	0.07	0.030	<10	6	<10
28227	0.9	<0.5	188	147	<2	95	3	32	1.88	<10	41	<1	<10	0.89	23	159	2.36	0.09	1.18	0.20	0.003	<10	3	<10
STD NO#	0.7	0.6	1360	304	<2	1530	3	27	5.63	<10	20	<1	<10	2.89	55	167	3.56	0.02	3.31	0.32	0.003	<10	3	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu	Ni
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24161	28	0.10	134	< 10	1	4	6.537		
24162	34	0.06	106	< 10	< 1	4	7.836		
24163	74	0.03	81	< 10	< 1	< 1	0.478		
24164	72	0.03	29	< 10	1	1	1.009		
24165	73	0.05	47	< 10	2	< 1	0.356		
24166	81	0.03	29	< 10	< 1	< 1	0.837		
24167	105	0.02	23	< 10	< 1	< 1	1.469		
24168	89	0.04	30	< 10	1	< 1	0.745		
24169	42	0.13	97	< 10	2	1	1.354		
24170	85	0.01	33	< 10	< 1	< 1	0.509		
24133	57	0.03	23	< 10	1	< 1	0.314		
24134	21	0.03	22	< 10	< 1	< 1	0.508		
24135	40	0.03	21	< 10	< 1	< 1	0.501		
24136	50	0.03	34	< 10	1	2	2.226		
24137	67	0.06	76	< 10	1	< 1	0.799		
24138	74	0.05	43	< 10	3	< 1	0.267		
24139	91	0.02	16	< 10	< 1	1	0.533		
24140	86	0.02	34	< 10	< 1	< 1	0.511		
24141	81	0.02	15	< 10	< 1	< 1	0.885		
24142	73	0.02	18	< 10	< 1	1	0.708		
23658	98	0.01	13	< 10	< 1	< 1	0.212		
23659	90	0.02	15	< 10	< 1	< 1	0.257		
23660	15	0.10	64	< 10	17	16	6.728		
23661	83	0.02	13	< 10	< 1	< 1	0.191		
23662	67	0.03	16	< 10	2	< 1	0.180		
23663	86	0.03	16	< 10	1	< 1	0.167		
23664	79	0.02	12	< 10	< 1	< 1	0.120		
23665	61	0.04	33	< 10	2	2	1.935		
23666	96	0.03	19	< 10	< 1	1	1.179		
23977	37	0.04	46	< 10	4	4	5.792		
28218	11	0.16	130	< 10	9	4	5.000		
28219	59	0.02	24	< 10	< 1	2	2.587		
28220	45	0.02	42	< 10	< 1	2	1.782	1810	76E
28221	8	0.11	162	< 10	4	2	0.676		
28222	28	0.04	57	< 10	< 1	< 1	0.920		
28223	17	0.03	33	< 10	< 1	< 1	0.563		
28224	12	0.03	21	< 10	< 1	< 1	0.382		
28225	20	0.04	70	< 10	< 1	< 1	0.180		
28226	11	0.07	63	< 10	4	3	1.022		
28227	25	0.08	123	< 10	< 1	< 1	0.123		
STD NO#	85	0.01	34	< 10	< 1	< 1	0.515		

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.8	3.3	1060	775	14	34	577	632	0.64	333	199	<1	1390	0.84	10	6	23.0	0.03	0.16	0.06	0.039	73	1	29
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0650	0.0650	122	1.58	54.0
GXR-4 Meas	3.5	0.6	6060	145	347	41	44	56	2.72	96	20	1	17	1.01	17	56	3.41	1.34	1.73	0.12	0.123	<10	7	<10
GXR-4 Cert	4.00	0.660	6020	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.60	7.70	6.60
GXR-2 Meas	20.1	5.1	87	1150	<2	20	813	586	3.61	14	1040	1	<10	0.84	12	29	2.33	0.61	0.68	0.21	0.064	36	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	36.0	1.86	1.37	0.850	0.566	0.106	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	66	1070	<2	24	97	121	7.17	226	84	<1	<10	0.16	16	86	6.13	0.95	0.43	0.11	0.033	<10	23	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2740			2400											5.77							
OREAS 13P Cert			2500			2280											7.58							
24142 Ong	3.3	1.4	1100	155	<2	402	37	29	4.81	<10	10	<1	<10	3.73	36	96	2.26	0.02	0.96	0.47	0.009	<10	3	<10
24142 Dup	3.4	1.4	1110	155	<2	411	37	28	4.81	<10	11	<1	<10	3.82	37	100	2.26	0.02	0.96	0.46	0.009	<10	3	<10
28221 Ong	0.9	1.2	460	442	<2	311	6	97	3.64	<10	55	<1	<10	1.47	47	97	6.89	0.76	4.68	0.06	0.013	<10	14	<10
28221 Dup	1.0	1.4	476	456	<2	310	4	133	3.66	<10	58	<1	<10	1.52	53	100	6.06	0.76	4.73	0.06	0.014	<10	16	<10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S	Cu	Ni
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	175		74	128	23	17	0.186	1110	33
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257	1110	41.0
GXR-4 Meas	69		87	11	12	10	1.926	6650	38
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77	6520	42.0
GXR-2 Meas	89		54	< 10	12	11	0.040	95	19
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313	76.0	21.0
GXR-6 Meas	30		182	< 10	6	10	0.015	66	23
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160	66.0	27.0
OREAS 13P Meas								2950	2380
OREAS 13P Cert								2500	2280
24142 Orig	73	0.02	18	< 10	< 1	1	0.708		
24142 Dup	74	0.02	18	< 10	< 1	1	0.708		
28221 Orig	8	0.11	160	< 10	4	2	0.647		
28221 Dup	8	0.11	186	< 10	4	2	0.708		
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001		
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001		
Method Blank Method Blank								< 1	< 1



Date Submitted: 02-Jun-08
Invoice No.: A08-2870 repeats
Invoice Date: 24-Nov-08
Your Reference: DOSSIER 22349

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

41 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT A08-2870 repeats

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Analyte Symbol	Cu	Ni
Unit Symbol	ppm	ppm
Detection Limit	1	1
Analysis Method	AR-ICP	AR-ICP
23665	6030	717
23666	4810	363
23677	3340	2080
28218		
28219	2370	1210
28220	1710	658
28221	517	306
28222	705	284
28223	656	251
28224	164	61
28225	289	98

Quality Control

Analyte Symbol	Cu	Ni
Unit Symbol	ppm	ppm
Detection Limit	1	1
Analysis Method	AR-ICP	AR-ICP
GXR-1 Meas	1030	28
GXR-1 Cert	1110	41.0
GXR-4 Meas	5530	40
GXR-4 Cert	5520	42.0
GXR-2 Meas	85	18
GXR-2 Cert	76.0	21.0
GXR-6 Meas	74	20
GXR-6 Cert	66.0	27.0
OREAS 13P Meas	2420	2350
OREAS 13P Cert	2500	2260
28215 Orig	2370	1210
28215 Dup	2380	1200
Method Blank Method Blank	< 1	< 1
Method Blank Method Blank	< 1	< 1
Method Blank Method Blank	< 1	< 1



Date Submitted: 10-Jun-08
Invoice No.: A08-3058
Invoice Date: 25-Jun-08
Your Reference: DOSSIER 22417

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

73 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3058**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

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Activation Laboratories Ltd. Report: A08-3058

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26288	0.5	< 0.5	1.44	123	< 2	66	27	12	5.66	< 10	10	< 1	< 10	4.05	10	107	0.96	0.01	0.75	0.46	0.006	< 10	2	< 10
26289	1.0	< 0.5	308	162	< 2	176	34	14	5.47	< 10	10	< 1	< 10	3.88	20	110	1.43	0.02	1.00	0.44	0.006	< 10	2	< 10
26290	0.6	< 0.5	1700	285	< 2	1700	< 2	28	5.78	< 10	18	< 1	< 10	2.67	52	139	3.28	0.03	3.14	0.32	0.003	< 10	5	< 10
26291	1.4	0.8	516	215	< 2	247	33	24	5.35	< 10	9	< 1	< 10	3.60	30	136	2.09	0.02	1.40	0.42	0.005	< 10	3	< 10
26292	6.9	2.0	3110	364	< 2	1010	23	48	3.78	< 10	8	< 1	< 10	2.96	144	161	5.49	0.01	2.39	0.19	0.004	< 10	4	< 10
26293	2.5	1.8	1030	325	< 2	688	29	47	4.61	< 10	9	< 1	< 10	3.24	81	147	4.38	0.02	2.10	0.25	0.008	< 10	4	< 10
26294	4.0	1.4	1850	440	< 2	1980	20	33	4.23	< 10	7	< 1	< 10	2.33	236	146	6.35	0.02	2.88	0.18	0.006	< 10	3	< 10
26295	8.5	2.2	2960	276	< 2	632	36	45	4.61	< 10	8	< 1	< 10	2.33	57	120	3.08	< 0.01	2.37	0.29	0.014	< 10	2	< 10
26296	1.9	< 0.5	490	66	< 2	127	33	10	5.91	< 10	10	< 1	< 10	4.06	12	72	0.73	0.01	0.52	0.54	0.014	< 10	1	< 10
26297	6.0	1.5	1540	96	< 2	782	34	22	5.68	< 10	10	< 1	< 10	3.70	43	90	2.11	0.01	0.72	0.51	0.012	< 10	2	< 10
26298	3.1	1.0	798	83	< 2	419	38	18	7.31	< 10	10	< 1	< 10	4.91	27	122	1.36	0.01	0.89	0.49	0.005	< 10	2	< 10
26299	2.6	1.6	669	82	< 2	250	37	19	6.66	< 10	9	< 1	< 10	4.29	15	110	1.03	0.01	0.75	0.61	0.009	< 10	2	< 10
26300	0.9	1.5	8820	250	< 2	> 10000	5	39	0.49	< 10	4	< 1	< 10	0.35	635	32	31.5	0.10	0.15	0.07	0.046	< 10	3	< 10
26301	2.5	1.1	1310	116	< 2	2780	25	18	4.25	< 10	5	< 1	< 10	2.40	479	185	10.4	0.06	1.15	0.41	0.011	< 10	2	< 10
26302	5.3	1.3	3510	128	< 2	2880	27	25	4.63	< 10	14	< 1	< 10	2.62	110	187	7.96	0.06	1.41	0.40	0.013	< 10	2	< 10
26303	5.9	1.8	3480	230	3	2340	24	42	4.46	< 10	23	< 1	< 10	2.01	131	166	8.84	0.18	2.85	0.24	0.029	< 10	6	< 10
26304	3.1	0.8	1530	236	< 2	1120	26	22	4.49	< 10	9	< 1	< 10	2.76	72	102	4.81	0.02	1.54	0.31	0.010	< 10	3	< 10
26305	1.6	0.8	537	449	< 2	383	29	40	3.69	< 10	5	< 1	< 10	2.69	41	166	4.77	0.05	3.41	0.07	0.006	< 10	4	< 10
26306	2.5	1.8	1740	390	< 2	1420	53	49	2.88	< 10	7	< 1	< 10	2.55	90	368	8.06	0.01	3.30	0.04	0.007	< 10	3	< 10
26307	3.7	1.6	1390	472	< 2	984	17	57	2.70	< 10	7	< 1	< 10	1.75	57	544	5.42	0.02	2.92	0.03	0.008	< 10	4	< 10
26308	1.1	2.2	332	542	< 2	213	13	74	2.79	< 10	7	< 1	< 10	1.73	31	148	4.64	0.02	2.32	0.05	0.028	< 10	6	< 10
26309	1.4	0.8	310	286	< 2	92	31	32	4.43	< 10	13	< 1	< 10	3.11	20	115	2.67	0.03	1.28	0.21	0.022	< 10	5	< 10
26310	< 0.2	< 0.5	3	10	< 2	< 1	< 2	1	0.03	< 10	8	< 1	< 10	0.04	< 1	2	0.04	< 0.01	0.02	0.01	0.003	< 10	< 1	< 10
26311	2.2	2.4	894	557	< 2	724	53	115	4.65	< 10	29	< 1	< 10	2.44	56	102	7.78	0.12	5.65	0.03	0.008	< 10	14	< 10
26312	2.4	5.8	1280	457	< 2	938	101	146	4.60	< 10	32	< 1	< 10	2.68	79	106	6.79	0.14	3.15	0.12	0.010	< 10	7	< 10
26313	2.9	3.6	2030	326	< 2	2600	40	125	3.43	< 10	9	< 1	< 10	2.02	139	116	14.6	0.03	1.91	0.10	0.007	< 10	5	< 10
26314	3.8	4.8	3130	216	< 2	2080	39	152	2.47	< 10	6	< 1	< 10	1.78	113	145	11.3	< 0.01	1.28	0.07	0.008	< 10	4	< 10
26315	6.8	4.4	5910	332	< 2	2160	96	286	3.19	< 10	5	< 1	< 10	1.92	141	138	13.9	0.01	1.68	0.11	0.009	< 10	4	< 10
26316	17.0	8.9	> 10000	317	< 2	3080	124	349	2.97	< 10	6	< 1	< 10	1.61	229	76	19.9	0.02	1.30	0.16	0.010	< 10	4	< 10
26317	23.0	7.7	> 10000	346	< 2	3150	134	348	2.65	< 10	6	< 1	< 10	1.23	328	83	21.3	0.03	1.42	0.16	0.014	< 10	4	< 10
26318	10.6	6.1	4230	283	< 2	3910	230	284	2.73	< 10	8	< 1	13	0.71	161	100	22.5	0.06	1.30	0.11	0.014	< 10	4	< 10
26319	22.9	18.3	> 10000	295	< 2	5770	174	583	1.88	21	6	< 1	< 10	0.31	334	113	32.0	0.04	1.19	0.04	0.014	< 10	4	11
26320	0.7	0.6	1690	281	< 2	1690	< 2	29	5.25	< 10	16	< 1	< 10	2.59	55	138	3.37	0.03	3.08	0.29	0.003	< 10	3	< 10
26321	8.4	9.3	4210	142	< 2	7170	77	394	1.22	< 10	5	< 1	< 10	0.24	235	109	34.6	0.08	1.77	0.05	0.009	11	2	< 10
26322	6.3	4.7	3020	219	< 2	3440	115	317	2.36	< 10	5	< 1	< 10	0.37	181	79	18.7	0.43	2.12	0.07	0.012	< 10	5	< 10
26323	< 0.2	1.0	113	436	< 2	91	7	212	3.26	< 10	84	< 1	< 10	0.33	13	49	5.44	0.40	3.00	0.05	0.042	< 10	6	< 10
26324	0.4	1.9	279	474	< 2	180	8	255	3.60	< 10	86	< 1	< 10	0.47	21	84	6.67	0.46	3.11	0.07	0.058	< 10	8	< 10
26325	< 0.2	0.6	20	503	< 2	18	3	152	3.93	< 10	242	< 1	< 10	0.67	14	47	4.97	1.03	3.04	0.10	0.078	< 10	11	< 10
26326	< 0.2	< 0.5	9	398	2	10	3	88	2.67	< 10	109	< 1	< 10	0.34	8	114	2.95	0.55	2.01	0.06	0.028	< 10	4	< 10
26327	< 0.2	< 0.5	6	332	< 2	8	3	47	2.28	< 10	85	< 1	< 10	0.49	4	89	2.20	0.49	1.63	0.04	0.005	< 10	2	< 10
26328	< 0.2	0.7	90	324	3	6	5	53	2.07	< 10	44	< 1	< 10	0.61	4	131	2.35	0.40	1.75	0.02	0.004	< 10	2	< 10
26329	< 0.2	< 0.5	4	211	2	6	2	38	2.13	< 10	63	< 1	< 10	0.14	2	123	1.98	0.80	1.68	0.04	0.004	< 10	1	< 10
26330	< 0.2	< 0.5	3	13	< 2	< 1	< 2	1	0.04	< 10	8	< 1	< 10	0.04	< 1	3	0.06	0.21	0.02	0.01	0.004	< 10	< 1	< 10
26331	< 0.2	< 0.5	3	220	3	4	< 2	38	2.14	< 10	67	1	< 10	0.17	3	111	1.80	0.56	1.61	0.04	0.004	< 10	1	< 10
26332	< 0.2	< 0.5	4	512	< 2	11	2	78	2.85	< 10	138	< 1	< 10	0.59	10	121	3.50	0.71	2.51	0.06	0.033	< 10	7	< 10
26333	< 0.2	< 0.5	58	380	< 2	18	3	45	2.02	< 10	99	< 1	< 10	0.38	12	85	2.76	0.47	1.49	0.06	0.017	< 10	6	< 10
26334	< 0.2	< 0.6	116	426	< 2	31	2	42	2.42	< 10	15	< 1	< 10	2.25	21	84	3.90	0.07	1.30	0.21	0.040	< 10	10	< 10
26335	< 0.2	< 0.5	136	394	< 2	31	3	37	2.88	< 10	14	< 1	< 10	2.44	21	70	3.76	0.07	1.12	0.25	0.047	< 10	10	< 10
26336	< 0.2	< 0.5	56	398	< 2	23	3	47	2.25	< 10	87	< 1	< 10	0.99	14	113	3.02	0.47	1.61	0.06	0.021	< 10	6	< 10
26337	< 0.2	< 0.5	8	457	< 2	11	2	81	3.34	< 10	332	< 1	< 10	0.63	13	71	3.76	0.96	2.19	0.10	0.054	< 10	9	< 10
26338	< 0.2	< 0.5	23	550	< 2	11	6	92	4.09	< 10	266	< 1	< 10	1.70	14	62	4.35	0.50	2.31	0.12	0.082	< 10	11	< 10
26339	< 0.2	< 0.5	4	642	< 2	9	5	84	3.61	< 10	209	< 1	< 10	1.70	13	73	4.69	0.82	2.21	0.07	0.07			

Activation Laboratories Ltd. Report: A08-3058

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25232	< 0.2	< 0.5	156	120	< 2	166	2	16	5.95	< 10	26	< 1	< 10	3.77	20	114	1.44	0.08	1.35	0.52	0.008	< 10	2	< 10
25233	< 0.2	< 0.5	120	61	< 2	34	< 2	8	6.76	< 10	12	< 1	< 10	4.74	5	86	0.66	0.02	0.44	0.70	0.004	< 10	1	< 10
25234	< 0.2	< 0.5	78	63	< 2	36	3	8	7.53	< 10	14	< 1	< 10	6.04	4	110	0.61	0.02	0.53	0.75	0.002	< 10	2	< 10
25235	3.3	0.6	2270	253	< 2	2160	7	21	3.21	< 10	13	< 1	< 10	1.35	103	480	4.07	0.02	2.81	0.11	0.004	< 10	2	< 10
25236	4.6	1.2	3200	200	< 2	2430	7	38	3.90	< 10	15	< 1	< 10	2.00	88	196	3.90	0.02	2.49	0.12	0.004	< 10	1	< 10
25237	3.7	0.8	2660	291	< 2	2400	7	35	4.45	< 10	21	< 1	< 10	2.61	73	227	4.20	0.05	2.68	0.13	0.004	< 10	2	< 10
25238	2.9	1.1	2390	285	< 2	1960	7	36	5.32	< 10	18	< 1	< 10	2.68	69	212	3.89	0.03	2.63	0.18	0.004	< 10	1	< 10
25239	4.9	1.7	3980	138	< 2	2890	6	41	4.45	< 10	14	< 1	< 10	2.84	104	114	3.81	0.03	1.85	0.18	0.006	< 10	< 1	< 10
25240	0.6	< 0.5	1670	289	< 2	1710	4	26	5.58	< 10	18	< 1	< 10	2.68	54	140	3.28	0.03	3.13	0.31	0.003	< 10	3	< 10
25241	4.1	1.6	3040	172	< 2	1860	6	44	4.00	< 10	10	< 1	< 10	1.98	78	164	3.73	0.02	2.41	0.12	0.004	< 10	1	< 10
25242	2.1	1.5	1790	349	< 2	1290	5	41	3.80	< 10	8	< 1	< 10	1.77	80	184	3.98	0.01	2.97	0.07	0.004	< 10	1	< 10
25243	3.7	1.5	3270	269	< 2	1710	13	61	6.28	< 10	38	< 1	< 10	3.62	85	82	3.93	0.02	2.21	0.22	0.006	< 10	1	< 10
25244	2.2	1.3	2160	189	< 2	1120	5	41	4.62	< 10	12	< 1	< 10	2.75	68	126	3.07	0.02	2.06	0.16	0.004	< 10	1	< 10
25245	2.0	1.2	1760	140	< 2	765	9	26	5.87	< 10	10	< 1	< 10	3.90	50	77	2.10	0.02	1.22	0.28	0.006	< 10	1	< 10
25246	1.5	0.6	1030	85	< 2	185	5	17	3.02	< 10	9	< 1	< 10	2.12	19	73	1.02	< 0.01	0.74	0.29	0.006	< 10	2	< 10
25247	1.2	< 0.5	728	68	< 2	168	6	12	4.34	< 10	13	< 1	< 10	3.08	22	46	0.92	< 0.01	0.45	0.41	0.006	< 10	1	< 10
25248	1.0	< 0.5	525	64	< 2	95	6	12	4.11	< 10	14	< 1	< 10	2.90	17	52	0.83	< 0.01	0.50	0.41	0.007	< 10	2	< 10
25249	1.0	< 0.5	500	95	< 2	117	10	16	4.84	< 10	15	< 1	< 10	3.25	21	67	1.17	< 0.01	0.71	0.46	0.013	< 10	2	< 10
25250	0.9	1.8	8480	243	< 2	> 10000	3	39	0.47	< 10	5	< 1	< 10	0.34	533	32	31.1	0.10	0.15	0.07	0.046	< 10	3	< 10
25251	0.4	< 0.5	280	121	< 2	166	11	11	5.00	< 10	13	< 1	< 10	3.65	19	58	1.25	0.01	0.63	0.47	0.012	< 10	2	< 10
25252	2.2	0.7	1080	127	< 2	635	15	17	5.20	< 10	8	< 1	< 10	3.62	39	73	1.72	< 0.01	0.73	0.89	0.008	< 10	2	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26288	88	0.01	12	< 10	< 1	< 1	0.100
26289	90	0.01	16	< 10	< 1	< 1	0.276
26290	80	0.01	31	< 10	< 1	1	0.484
26291	74	0.02	23	< 10	< 1	< 1	0.398
26292	38	0.02	33	< 10	< 1	2	2.328
26293	57	0.03	32	< 10	< 1	1	1.244
26294	31	0.02	26	< 10	< 1	2	3.520
26295	37	0.01	16	< 10	1	1	0.817
26296	75	< 0.01	5	< 10	< 1	< 1	0.163
26297	77	< 0.01	6	< 10	< 1	1	0.899
26298	77	< 0.01	9	< 10	< 1	< 1	0.480
26299	65	< 0.01	7	< 10	< 1	< 1	0.252
26300	13	0.08	58	< 10	15	16	7.729
26301	43	0.02	23	< 10	1	4	6.342
26302	48	0.02	30	< 10	2	2	3.593
26303	27	0.05	68	< 10	6	2	3.326
26304	34	0.02	22	< 10	2	2	1.618
26305	13	0.04	36	< 10	1	1	0.464
26306	3	0.04	35	< 10	2	2	1.438
26307	9	0.05	67	< 10	1	2	0.940
26308	18	0.09	97	< 10	3	2	0.298
26309	31	0.07	68	< 10	3	< 1	0.239
26310	1	< 0.01	< 1	< 10	< 1	3	0.016
26311	6	0.09	116	< 10	5	2	0.761
26312	19	0.05	110	< 10	2	2	1.514
26313	15	0.02	90	< 10	1	4	5.913
26314	18	0.03	35	< 10	1	3	5.059
26315	16	0.02	56	< 10	1	3	5.807
26316	17	0.01	82	< 10	1	4	7.813
26317	19	0.01	64	< 10	2	5	6.485
26318	17	0.02	97	< 10	2	5	6.097
26319	7	0.02	101	< 10	2	7	6.306
26320	58	0.01	31	< 10	< 1	1	0.518
26321	8	0.02	118	< 10	1	7	5.839
26322	10	0.09	68	< 10	4	6	7.544
26323	15	0.09	54	< 10	11	5	0.431
26324	21	0.10	77	< 10	11	5	1.031
26325	26	0.17	76	< 10	11	3	0.944
26326	10	0.11	24	< 10	12	16	0.022
26327	10	0.07	2	< 10	13	20	0.013
26328	7	0.05	1	< 10	15	24	0.065
26329	8	0.05	1	< 10	10	26	0.010
26330	1	< 0.01	< 1	< 10	< 1	4	0.017
26331	14	0.05	< 1	< 10	10	24	0.006
26332	14	0.12	41	< 10	14	11	0.013
26333	9	0.10	45	< 10	9	9	0.057
26334	36	0.09	116	< 10	7	2	0.120
26335	55	0.09	121	< 10	7	2	0.129
26336	13	0.10	85	< 10	9	10	0.077
26337	15	0.17	56	< 10	7	6	0.018
26338	17	0.18	74	< 10	11	4	0.020
26339	14	0.16	60	< 10	15	5	0.016

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25232	83	0.03	17	< 10	< 1	< 1	0.112
25233	109	< 0.01	7	< 10	< 1	< 1	0.056
25234	116	< 0.01	8	< 10	< 1	< 1	0.049
25235	23	0.03	32	< 10	< 1	2	1.204
25236	38	0.02	15	< 10	< 1	1	1.363
25237	39	0.02	17	< 10	< 1	2	1.224
25238	57	0.02	13	< 10	< 1	1	0.984
25239	58	0.01	11	< 10	< 1	1	1.632
25240	61	0.01	31	< 10	< 1	1	0.500
25241	38	0.01	12	< 10	< 1	1	1.791
25242	21	0.01	14	< 10	< 1	1	0.845
25243	74	0.01	12	< 10	< 1	1	1.313
25244	56	0.01	12	< 10	< 1	1	0.912
25245	83	< 0.01	9	< 10	< 1	1	0.651
25246	42	< 0.01	11	< 10	1	2	0.218
25247	51	< 0.01	6	< 10	1	2	0.270
25248	51	< 0.01	8	< 10	1	2	0.183
25249	57	0.02	9	< 10	1	2	0.731
25250	13	0.08	58	< 10	15	16	7.026
25251	78	0.02	13	< 10	< 1	1	0.294
25252	83	< 0.01	11	< 10	< 1	1	0.650

Activation Laboratories Ltd. Report: A08-3058

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.1	3.2	1120	839	14	36	898	586	0.35	368	159	<1	1480	0.80	8	6	23.6	0.03	0.13	0.05	0.037	79	1	28
GXR-1 Cert	31.0	3.3	1110	852	18	41	730	760	3.52	427	750	1	1380	0.96	8	12	23.6	0.05	0.22	0.05	0.065	122	2	54
GXR-4 Meas	3.4	0.6	6360	134	328	36	44	57	2.60	95	20	1	26	0.91	15	58	3.40	1.33	1.68	0.12	0.116	<10	7	<10
GXR-4 Cert	4.0	0.9	6620	166	310	42	62	73	7.20	98	1640	2	16	1.01	15	64	3.09	4.01	1.65	0.65	0.120	5	8	6
GXR-2 Meas	20.3	5.1	87	1080	<2	19	803	575	3.55	13	1020	1	<10	0.79	11	27	2.31	0.58	0.57	0.19	0.059	31	5	<10
GXR-2 Cert	17.0	4.1	78	1037	2	21	890	530	16.50	25	2240	2	1	0.93	9	38	1.86	1.37	0.85	0.56	0.105	49	7	2
GXR-6 Meas	0.3	0.5	72	1010	<2	24	94	117	7.42	228	828	<1	<10	0.16	15	86	5.11	0.88	0.41	0.10	0.032	<10	22	<10
GXR-6 Cert	1.3	1.0	66	1007	2	27	101	118	17.70	330	1300	1	0	0.18	14	96	5.58	1.87	0.61	0.10	0.035	4	28	2
OREAS 13P Meas			2830			2450											5.81							
OREAS 13P Cert			2500			2261											7.58							
2630C Ong	0.8	1.4	8830	250	<2	>10000	6	39	0.50	<10	4	<1	<10	0.35	536	33	31.5	0.10	0.15	0.07	0.046	<10	3	<10
2630C Dup	0.9	1.6	8810	250	<2	>10000	4	39	0.48	<10	4	<1	<10	0.34	533	32	31.5	0.10	0.15	0.07	0.046	<10	3	<10
26314 Ong	3.6	4.5	3290	217	<2	2080	39	153	2.45	<10	6	<1	<10	1.78	117	144	11.3	0.01	1.26	0.07	0.008	<10	4	<10
26314 Dup	3.8	5.1	3070	216	<2	2040	40	151	2.44	<10	5	<1	<10	1.73	110	145	11.2	<0.01	1.27	0.07	0.008	<10	3	<10
26327 Ong	<0.2	<0.5	6	331	<2	5	3	46	2.24	<10	64	<1	<10	0.48	4	85	2.19	0.49	1.62	0.04	0.005	<10	2	<10
26327 Dup	<0.2	<0.5	6	332	<2	6	3	48	2.28	<10	66	<1	<10	0.49	4	90	2.22	0.49	1.63	0.05	0.005	<10	2	<10
25233 Ong	<0.2	<0.5	121	61	<2	34	3	8	6.63	<10	12	<1	<10	4.75	5	85	0.57	0.02	0.45	0.70	0.004	<10	1	<10
25233 Dup	<0.2	<0.5	120	62	<2	33	<2	8	6.70	<10	12	<1	<10	4.74	5	85	0.56	0.02	0.44	0.69	0.004	<10	1	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.004	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	158		74	199	22	13	0.191
GXR-1 Cert	275		80	164	32	38	0.257
GXR-4 Meas	65		63	15	11	10	1.833
GXR-4 Cert	221		87	31	14	186	1.770
GXR-2 Meas	64		52	< 10	12	11	0.039
GXR-2 Cert	180		52	2	17	289	0.031
GXR-6 Meas	29		176	< 10	6	11	0.017
GXR-6 Cert	35		186	2	14	110	0.016
OREAS 13P Meas							
OREAS 13P Cert							
26300 Orig	13	0.08	58	< 10	15	16	8.026
26300 Dup	13	0.08	56	< 10	15	16	7.431
26314 Orig	16	0.03	36	< 10	1	3	5.088
26314 Dup	16	0.03	36	< 10	1	3	5.029
26327 Orig	10	0.07	2	< 10	13	20	0.013
26327 Dup	10	0.07	2	< 10	13	20	0.013
25233 Orig	109	< 0.01	7	< 10	< 1	< 1	0.055
25233 Dup	108	< 0.01	7	< 10	< 1	< 1	0.056
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 10-Jun-08
Invoice No.: A08-3059
Invoice Date: 27-Jun-08
Your Reference: DOSSIER 22418

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

86 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3059**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3059

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
25253	1.7	1.1	748	173	<2	1010	8	27	3.43	<10	9	<1	<10	2.00	54	294	3.08	0.02	2.14	0.17	0.003	<10	2	<10	
25254	2.9	1.4	1540	153	<2	1410	6	38	2.67	<10	7	<1	<10	1.08	53	394	3.88	0.01	2.49	0.07	0.003	<10	1	<10	
25255	3.4	1.7	1830	182	<2	1760	12	33	4.60	<10	8	<1	<10	2.97	98	199	4.28	0.02	1.98	0.18	0.004	<10	2	<10	
25256	3.8	1.7	1910	211	<2	1400	12	39	4.15	<10	7	<1	<10	2.41	84	182	3.89	0.01	2.08	0.17	0.003	<10	2	<10	
25257	4.5	2.2	2130	194	<2	1630	17	49	5.42	<10	9	<1	<10	3.49	98	196	4.04	0.02	1.88	0.27	0.003	<10	2	<10	
25258	2.5	1.5	1250	457	<2	869	11	45	4.35	<10	7	<1	<10	1.89	50	203	6.07	<0.01	3.38	0.13	0.007	<10	3	<10	
25259	2.4	1.4	1350	273	<2	1100	16	35	4.37	<10	8	<1	<10	2.43	81	163	4.78	0.01	2.28	0.22	0.004	<10	2	<10	
25260	<0.5	<0.5	4	9	<2	1	<2	<1	0.03	<10	9	<1	<10	0.04	<1	2	0.09	<0.01	0.02	0.01	0.004	<10	<1	<10	
25261	1.5	1.3	809	218	<2	982	13	38	3.59	<10	9	<1	<10	2.19	51	180	3.60	0.02	1.97	0.18	0.003	<10	2	<10	
25262	2.0	1.7	1020	257	<2	797	10	52	3.14	<10	16	<1	<10	1.32	70	311	4.16	0.03	3.13	0.09	0.007	<10	3	<10	
25263	2.5	1.4	1290	397	<2	838	10	42	2.95	<10	7	<1	<10	1.51	83	218	4.49	0.01	3.20	0.05	0.004	<10	3	<10	
25264	3.3	3.0	1370	245	<2	1160	8	70	3.09	<10	10	<1	<10	1.58	87	209	4.25	0.03	2.65	0.09	0.003	<10	2	<10	
25265	3.3	3.1	1370	199	<2	1160	6	58	2.71	<10	10	<1	<10	1.61	69	185	3.63	0.02	2.20	0.10	0.004	<10	3	<10	
25266	2.8	4.3	1280	289	<2	819	17	111	4.31	<10	25	<1	<10	2.51	56	162	3.84	0.12	2.21	0.21	0.015	<10	4	<10	
25267	2.6	4.1	1050	280	<2	904	38	132	4.32	<10	15	<1	<10	2.22	59	99	4.32	0.03	2.28	0.26	0.006	<10	3	<10	
25268	3.4	2.8	1620	226	<2	1170	40	78	5.18	<10	28	<1	<10	2.63	86	109	6.48	0.10	2.23	0.36	0.006	<10	4	<10	
25269	3.3	4.5	1600	342	<2	1040	29	141	3.97	<10	30	<1	<10	1.42	105	105	6.69	0.11	3.07	0.21	0.007	<10	5	<10	
25270	0.7	0.6	1630	313	<2	1660	3	27	5.80	<10	19	<1	<10	2.88	55	138	3.97	0.03	3.35	0.32	0.002	<10	3	<10	
25271	3.1	2.7	1480	326	<2	785	36	78	5.30	<10	27	<1	<10	2.79	71	95	5.02	0.10	2.37	0.38	0.003	<10	8	<10	
25272	4.1	2.0	1670	357	<2	896	14	57	3.65	<10	17	<1	<10	1.59	78	144	5.57	0.07	2.75	0.23	0.004	<10	7	<10	
25273	6.5	3.1	1890	144	<2	310	20	67	2.83	<10	13	<1	<10	1.67	36	96	2.33	0.04	1.13	0.36	0.005	<10	3	<10	
25274	1.7	1.7	510	231	<2	248	17	54	2.54	<10	9	<1	<10	1.37	27	88	2.52	0.02	1.82	0.22	0.003	<10	2	<10	
25275	2.7	2.4	680	152	<2	359	23	74	2.63	<10	10	<1	<10	1.49	35	85	1.79	0.03	1.04	0.36	0.003	<10	2	<10	
25276	2.1	1.0	515	147	<2	224	16	29	2.17	<10	10	<1	<10	1.11	23	72	1.46	0.02	0.94	0.27	0.002	<10	2	<10	
25277	20.5	4.8	4760	249	<2	1130	31	105	3.22	<10	13	<1	<10	1.71	194	122	4.92	0.04	1.63	0.37	0.006	<10	3	<10	
25278	1.7	1.2	414	63	<2	226	16	24	3.62	<10	36	<1	<10	2.02	29	136	1.71	0.12	0.80	0.62	0.003	<10	3	<10	
25279	1.7	0.9	447	55	<2	328	22	15	3.78	<10	20	<1	<10	2.24	32	150	1.61	0.07	0.85	0.57	0.004	<10	2	<10	
25280	<0.2	<0.5	4	11	<2	<1	<2	2	0.04	<10	8	<1	<10	0.04	<1	3	0.06	0.01	0.02	0.01	0.004	<10	<1	<10	
25281	1.8	2.3	544	168	<2	621	18	49	4.27	<10	19	<1	<10	1.60	46	112	2.93	0.08	2.10	0.36	0.007	<10	4	<10	
25282	1.7	1.1	1030	210	<2	1080	9	52	3.12	<10	9	<1	<10	0.51	92	109	5.69	0.03	2.23	0.11	0.006	<10	4	<10	
25283	1.9	1.4	1270	233	<2	1110	56	48	4.68	<10	9	<1	<10	1.63	77	60	6.92	0.04	1.68	0.19	0.009	<10	3	<10	
25284	1.1	1.7	487	206	<2	412	48	45	5.85	<10	18	<1	<10	3.24	40	74	4.64	0.08	1.80	0.24	0.005	<10	4	<10	
25285	8.6	2.4	4690	131	<2	4070	12	50	1.30	<10	7	<1	<10	0.38	287	36	14.9	0.15	1.26	0.05	0.007	<10	2	<10	
25286	38.7	13.0	3560	309	<2	152	402	57	4.25	<10	7	<1	<10	3.29	27	64	2.60	0.03	1.48	0.15	0.003	<10	5	<10	
25287	55.9	17.3	5250	359	<2	156	573	73	3.34	<10	7	<1	<10	51	2.11	27	59	2.85	0.01	1.65	0.09	0.003	<10	5	<10
25288	43.5	12.2	5170	495	<2	447	358	74	2.95	<10	6	<1	<10	5.6	1.55	40	76	4.54	<0.01	2.19	0.06	0.002	<10	5	<10
25289	3.2	1.8	923	341	<2	884	54	50	4.63	<10	50	<1	<10	1.35	76	111	6.64	0.24	3.18	0.13	0.005	<10	8	<10	
25290	0.6	0.5	1590	314	<2	1670	3	28	5.79	<10	18	<1	<10	2.91	57	139	3.53	0.03	3.31	0.32	0.002	<10	3	<10	
25291	1.8	1.6	106	796	<2	188	30	55	5.82	<10	27	<1	<10	0.46	26	82	8.12	0.11	7.09	0.06	0.009	<10	16	<10	
25292	0.2	<0.5	78	119	6	178	7	24	1.94	<10	0.2	<1	<10	0.21	12	86	1.46	0.07	1.55	0.05	0.004	<10	2	<10	
25293	4.1	2.0	1420	104	4	1960	16	26	1.84	<10	15	<1	<10	0.26	103	106	7.16	0.06	1.17	0.07	0.003	<10	1	<10	
25294	14.5	9.8	2170	168	2	189	8	54	2.66	<10	48	<1	<10	0.24	13	88	2.28	0.14	1.73	0.07	0.005	<10	2	<10	
25295	7.3	6.9	1420	184	<2	214	26	58	4.41	<10	85	<1	<10	0.93	21	122	3.03	0.30	2.40	0.18	0.006	<10	4	<10	
25296	2.6	2.8	1310	250	<2	630	30	70	5.10	<10	45	<1	<10	1.38	47	70	5.29	0.36	2.95	0.21	0.005	<10	5	<10	
25297	3.1	2.8	824	192	<2	384	7	84	3.85	<10	83	<1	<10	0.39	30	104	3.40	0.38	2.47	0.11	0.004	<10	5	<10	
25298	3.3	2.9	927	182	<2	488	34	63	4.64	<10	68	<1	<10	1.41	33	122	4.31	0.62	2.71	0.25	0.011	<10	6	<10	
25299	6.7	3.9	3840	596	<2	630	72	114	5.91	<10	79	<1	<10	2.21	37	130	7.26	0.46	4.37	0.20	0.008	<10	13	<10	
25300	0.9	2.5	9070	279	<2	>10000	7	43	0.51	<10	5	<1	<10	0.37	550	31	32.7	0.11	0.18	0.08	0.047	<10	3	<10	
25301	6.1	3.8	2600	422	<2	2360	14	98	3.25	<10	13	<1	<10	0.67	123	84	12.1	0.19	2.75	0.14	0.007	<10	6	<10	
25302	0.4	<0.5	136	206	<2	40	8	39	3.48	<10	38	<1	<10	0.44	8	99	1.98	0.14	1.79	0.13	0.002	<10	3	<10	
25303	16.1	5.3	7200	423	<2	457	18	140	3.16	<10	32	<1	<10	0.98	80	70	6.44	0.13	2.24	0.14	0.018	<10	6	<10	
25304	10.6	7.7	3800	318	2	1720	26	150	3.84	<10	19	<1	<10	1.19	124	74	10.3	0.46	2.31	0.19	0.018	<10	7	<10	

Activation Laboratories Ltd. Report: A08-3059

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
25305	6.2	2.3	1360	153	<2	163	10	74	2.20	<10	35	<1	14	0.27	19	115	2.57	0.15	1.28	0.10	0.008	<10	2	<10
25306	6.4	2.6	1190	182	3	80	11	88	2.44	<10	37	<1	19	0.27	19	127	2.26	0.15	1.46	0.09	0.013	<10	3	<10
25307	13.0	4.7	2280	240	<2	46	25	186	2.72	<10	40	<1	145	0.28	15	97	3.31	0.18	1.94	0.07	0.015	<10	5	<10
25310	< 0.2	< 0.5	5	11	<2	<1	<2	1	0.04	<10	8	<1	<10	0.04	<1	<2	0.05	0.01	0.02	0.01	0.004	<10	<1	<10
25313	0.5	2.3	389	589	<2	10	4	584	5.91	<10	74	<1	<10	0.43	16	50	8.23	0.35	5.66	0.10	0.005	<10	6	<10
25314	0.5	1.8	254	263	<2	18	8	235	4.04	<10	22	<1	<10	1.00	10	59	4.27	0.07	2.01	0.17	0.006	<10	5	<10
25315	1.8	3.1	1240	401	<2	140	11	586	3.94	<10	17	<1	<10	1.09	32	62	7.34	0.07	1.91	0.14	0.026	<10	4	<10
25316	7.4	13.2	3880	893	<2	160	5	1840	5.99	<10	80	<1	<10	0.51	28	26	10.1	0.59	5.19	0.09	0.011	<10	7	<10
25317	9.6	6.7	4390	230	<2	1230	17	359	3.11	<10	12	<1	<10	1.04	157	54	10.4	0.27	1.49	0.26	0.024	<10	4	<10
25318	7.5	3.2	2780	127	<2	136	41	212	5.28	<10	59	<1	<10	3.50	23	76	2.62	0.14	0.77	0.46	0.051	<10	2	<10
25319	5.0	2.9	2490	192	<2	170	27	108	5.40	<10	28	<1	<10	3.38	25	88	3.16	0.07	0.95	0.36	0.048	<10	3	<10
25320	0.8	0.6	1630	312	<2	1620	4	27	5.73	<10	19	<1	<10	2.91	55	138	3.48	0.03	3.28	0.32	0.003	<10	3	<10
25321	3.8	1.4	1630	75	<2	81	30	65	4.95	<10	44	<1	<10	3.32	16	86	2.71	0.17	0.50	0.51	0.042	<10	2	<10
25322	1.9	1.5	1040	96	2	80	33	39	5.59	<10	24	<1	<10	4.14	16	128	2.40	0.07	0.39	0.61	0.043	<10	1	<10
25323	3.0	2.1	2700	79	<2	785	31	85	5.08	<10	19	<1	<10	2.27	79	74	5.46	0.30	0.94	0.51	0.036	<10	2	<10
25324	6.2	3.4	5000	136	<2	1140	27	91	4.28	<10	15	<1	<10	2.00	158	87	9.12	0.06	0.69	0.36	0.036	<10	2	<10
25325	10.5	2.9	>10000	313	<2	3490	10	169	3.36	<10	8	<1	<10	0.60	249	148	20.1	0.34	2.69	0.14	0.012	<10	7	<10
25326	4.4	2.3	4080	139	<2	2310	23	91	3.67	<10	8	<1	<10	1.07	167	166	14.9	0.26	1.20	0.40	0.020	<10	3	<10
25327	3.1	1.6	2890	189	<2	1280	14	120	3.65	<10	16	<1	<10	0.78	106	184	9.57	0.45	2.39	0.22	0.010	<10	5	<10
25328	1.2	1.2	1230	105	<2	517	30	51	5.08	<10	43	<1	<10	2.48	57	156	3.91	0.20	1.41	0.66	0.011	<10	3	<10
25329	1.4	1.2	965	75	<2	486	35	36	5.68	<10	30	<1	<10	3.18	54	135	3.33	0.14	0.90	0.85	0.013	<10	2	<10
25330	< 0.2	< 0.5	4	11	<2	<1	<2	2	0.05	<10	12	<1	<10	0.04	<1	2	0.06	0.01	0.02	0.02	0.004	<10	<1	<10
25331	0.7	0.6	496	141	<2	135	35	47	5.50	<10	57	<1	<10	3.09	24	100	2.42	0.23	1.42	0.74	0.042	<10	4	<10
27470	0.6	0.8	1710	347	<2	1740	<2	27	6.20	<10	24	<1	<10	3.23	59	156	3.90	0.04	3.67	0.34	0.002	<10	3	<10
25332	0.3	0.7	257	128	<2	173	19	52	3.87	<10	155	<1	<10	1.56	119	115	2.95	0.69	1.96	0.39	0.028	<10	4	<10
25333	3.3	2.1	2240	126	<2	396	24	67	5.66	<10	33	<1	<10	2.76	55	66	6.66	0.65	1.61	0.68	0.045	<10	7	<10
25334	4.7	2.8	2410	181	<2	304	24	79	5.48	<10	38	<1	<10	2.71	48	82	8.58	0.51	1.57	0.61	0.045	<10	6	<10
25335	4.6	2.0	2210	185	<2	282	24	86	5.47	<10	36	<1	<10	2.35	35	84	6.76	0.42	1.65	0.58	0.048	<10	6	<10
25336	2.9	1.9	1980	216	<2	259	38	81	5.33	<10	30	<1	<10	2.53	45	61	6.36	0.35	1.39	0.61	0.040	<10	6	<10
25337	2.1	1.8	1050	420	<2	158	41	107	3.64	<10	67	<1	<10	2.08	36	112	5.50	0.23	2.07	0.17	0.038	<10	10	<10
25338	3.0	11.6	1620	268	<2	480	13	217	1.34	<10	26	<1	<10	0.87	43	66	6.82	0.22	1.19	0.07	0.046	<10	2	<10
25339	4.1	7.3	3170	833	<2	1190	32	435	3.44	<10	10	<1	<10	0.77	187	76	15.5	0.05	2.74	0.03	0.040	<10	10	<10
25340	0.6	0.6	1710	339	<2	1700	6	28	6.42	<10	23	<1	<10	3.15	57	150	3.72	0.04	3.64	0.36	0.002	<10	3	<10
25341	9.8	9.2	6560	411	<2	4730	37	404	1.92	<10	4	<1	<10	0.55	220	101	27.4	0.13	1.26	0.04	0.031	<10	4	17

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25253	35	0.01	17	< 10	< 1	2	0.833
25254	14	0.01	16	< 10	< 1	1	1.232
25255	61	0.01	15	< 10	< 1	2	1.565
25255	51	0.01	14	< 10	< 1	1	1.247
25257	79	0.01	15	< 10	< 1	1	1.368
25258	31	0.02	25	< 10	< 1	2	1.566
25259	50	0.01	17	< 10	< 1	2	1.510
25260	1	< 0.01	< 1	< 10	< 1	4	0.017
25261	41	0.01	15	< 10	< 1	2	0.971
25262	18	0.03	24	< 10	< 1	2	0.905
25263	8	0.03	31	< 10	3	2	0.840
25264	19	0.02	22	< 10	< 1	2	1.213
25265	23	0.02	22	< 10	< 1	1	1.110
25266	52	0.04	34	< 10	2	1	0.731
25267	52	0.02	39	< 10	< 1	1	0.904
25268	80	0.04	77	< 10	< 1	2	1.733
25269	32	0.08	120	< 10	< 1	2	1.923
25270	63	0.02	33	< 10	< 1	1	0.483
25271	57	0.04	73	< 10	< 1	1	1.403
25272	31	0.05	95	< 10	< 1	2	1.319
25273	44	0.03	40	< 10	< 1	< 1	0.707
25274	27	0.02	28	< 10	< 1	< 1	0.357
25275	44	0.02	16	< 10	< 1	< 1	0.458
25275	32	0.02	13	< 10	< 1	< 1	0.263
25277	48	0.04	39	< 10	< 1	2	2.233
25278	57	0.04	89	< 10	< 1	< 1	0.315
25279	57	0.04	115	< 10	< 1	< 1	0.416
25280	1	< 0.01	< 1	< 10	1	4	0.018
25281	41	0.02	85	< 10	< 1	1	0.514
25282	31	0.02	65	< 10	1	2	1.842
25283	46	0.02	89	< 10	1	2	2.111
25284	51	0.03	118	< 10	< 1	2	0.788
25285	5	0.04	54	< 10	< 1	5	5.703
25286	53	0.02	36	< 10	< 1	1	0.659
25287	38	0.02	32	< 10	< 1	1	0.784
25288	20	0.03	36	< 10	< 1	2	1.381
25289	25	0.04	89	< 10	1	2	1.742
25290	63	0.01	33	< 10	< 1	1	0.486
25291	16	< 0.01	103	< 10	4	2	0.163
25292	10	0.01	12	< 10	1	< 1	0.118
25293	10	0.01	9	< 10	< 1	3	3.747
25294	21	0.02	18	< 10	1	1	0.578
25295	44	0.04	60	< 10	1	1	0.490
25296	58	0.04	70	< 10	2	2	1.349
25297	27	0.05	91	< 10	1	1	0.898
25298	39	0.10	130	< 10	1	2	0.821
25299	37	0.07	93	< 10	4	2	1.163
25300	14	0.09	61	< 10	16	19	9.012
25301	18	0.03	37	< 10	4	4	4.708
25302	26	0.02	21	< 10	< 1	1	0.142
25303	21	0.06	45	< 10	4	3	2.277
25304	22	0.10	67	< 10	3	4	3.895

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25305	12	0.05	29	< 10	2	2	0.606
25306	17	0.04	27	< 10	2	2	0.330
25307	12	0.08	48	< 10	3	3	0.385
25310	1	< 0.01	< 1	< 10	1	4	0.018
25313	20	0.05	24	< 10	10	4	0.129
25314	35	0.05	74	< 10	5	3	0.154
25315	33	0.06	144	< 10	7	5	1.193
25316	21	0.09	61	< 10	18	6	1.033
25317	22	0.07	36	< 10	5	5	4.799
25318	57	0.06	16	< 10	7	1	0.823
25319	75	0.08	13	< 10	7	2	0.982
25320	63	0.02	33	< 10	< 1	2	0.479
25321	51	0.07	22	< 10	5	2	0.968
25322	52	0.09	27	< 10	5	2	0.753
25323	47	0.08	56	< 10	4	3	1.722
25324	42	0.08	66	< 10	7	6	3.082
25325	13	0.06	85	< 10	2	6	5.014
25326	26	0.07	67	< 10	3	6	6.308
25327	18	0.08	80	< 10	2	4	3.381
25328	50	0.06	71	< 10	1	2	1.294
25329	59	0.05	61	< 10	1	2	1.226
25330	2	< 0.01	< 1	< 10	1	5	0.019
25331	50	0.11	49	< 10	7	2	0.370
25332	89	0.02	37	< 10	< 1	2	0.491
25333	23	0.14	46	< 10	4	6	0.312
25333	45	0.12	84	< 10	6	4	1.580
25334	52	0.11	87	< 10	8	4	1.420
25335	56	0.11	90	< 10	6	6	1.296
25335	44	0.11	72	< 10	9	4	1.501
25337	23	0.16	86	< 10	10	3	0.810
25338	5	0.07	21	< 10	6	4	1.527
25339	3	0.15	88	< 10	14	9	4.897
25340	67	0.02	35	< 10	< 1	2	0.478
25341	6	0.07	84	< 10	7	12	7.023

Activation Laboratories Ltd. Report: A08-3059

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.7	3.4	1140	799	14	31	998	595	0.31	342	244	<1	1440	0.77	7	6	23.8	0.02	0.13	0.06	0.036	72	1	27
GXR-1 Cert	31.0	3.3	1110	852	19	41	730	760	3.52	427	750	1	1380	0.96	8	12	23.6	0.05	0.22	0.05	0.065	122	2	54
GXR-4 Meas	3.3	0.6	6120	139	327	41	42	57	2.78	96	26	1	19	0.95	17	54	3.43	1.38	1.68	0.11	0.115	<10	7	<10
GXR-4 Cert	4.0	0.6	6620	166	310	42	62	73	7.20	96	1640	2	16	1.01	15	64	3.09	4.01	1.65	0.65	0.120	5	8	6
GXR-2 Meas	18.1	4.5	78	1040	<2	17	761	539	3.42	14	1200	1	<10	0.82	10	24	2.05	0.52	0.52	0.26	0.054	27	5	<10
GXR-2 Cert	17.0	4.1	78	1037	2	21	890	530	16.50	25	2240	2	1	0.93	9	35	1.86	1.37	0.85	3.56	0.105	49	7	2
GXR-6 Meas	0.3	1.0	67	1010	<2	23	90	111	6.74	220	794	<1	<10	0.14	15	77	5.23	0.84	0.39	0.13	0.031	<10	21	<10
GXR-6 Cert	1.3	1.0	66	1007	2	27	101	118	17.70	330	1300	1	0	0.18	14	95	5.58	1.87	0.51	3.10	0.035	4	28	2
OREAS 13P Meas			2640			2350											5.69							
OREAS 13P Cert			2500			2261											7.58							
25255 Ong	3.2	3.0	1360	194	<2	1120	4	56	2.63	<10	10	<1	<10	1.57	66	179	3.52	0.02	2.14	0.10	0.004	<10	3	<10
25255 Dup	3.3	3.1	1380	204	<2	1160	7	50	2.75	<10	10	<1	<10	1.65	71	192	3.74	0.02	2.25	0.11	0.004	<10	3	<10
25275 Ong	1.6	0.7	462	55	<2	336	24	14	3.62	<10	20	<1	<10	2.27	33	163	1.66	0.07	0.66	0.66	0.004	<10	2	<10
25275 Dup	1.7	1.0	442	55	<2	319	21	15	3.74	<10	20	<1	<10	2.21	32	148	1.68	0.07	0.64	0.66	0.004	<10	2	<10
25282 Ong	0.2	0.6	76	119	6	183	7	23	1.51	<10	23	<1	<10	0.20	12	64	1.45	0.07	1.53	0.05	0.003	<10	2	<10
25282 Dup	0.2	<0.5	79	119	5	172	7	24	1.87	<10	25	<1	<10	0.21	13	67	1.46	0.07	1.55	0.05	0.004	<10	2	<10
25305 Ong	6.5	2.5	1200	183	3	79	11	88	2.44	<10	37	<1	19	0.27	19	125	2.26	0.15	1.45	0.09	0.013	<10	3	<10
25305 Dup	6.4	2.6	1180	181	3	80	12	88	2.44	<10	37	<1	19	0.27	19	127	2.26	0.15	1.46	0.09	0.013	<10	3	<10
25332 Ong	0.4	0.8	287	128	<2	174	19	52	3.99	<10	154	<1	<10	1.56	19	115	2.95	0.89	1.95	0.40	0.028	<10	4	<10
25332 Dup	0.3	0.7	247	128	<2	173	19	52	3.75	<10	155	<1	<10	1.55	18	114	2.96	0.69	1.95	0.38	0.028	<10	4	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	8	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	10	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.02	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	149		76	150	23	14	0.197
GXR-1 Cert	275		80	164	32	38	0.257
GXR-4 Meas	72		84	14	12	10	1.834
GXR-4 Cert	221		87	31	14	186	1.770
GXR-2 Meas	91		47	< 10	11	12	0.035
GXR-2 Cert	180		52	2	17	289	0.031
GXR-6 Meas	27		169	< 10	6	10	0.014
GXR-6 Cert	35		186	2	14	110	0.016
OREAS 13P Meas							
OREAS 13P Cert							
25265 Orig	23	0.02	21	< 10	< 1	1	1.080
25265 Dup	24	0.02	22	< 10	< 1	1	1.140
25279 Orig	57	0.04	116	< 10	< 1	< 1	0.426
25279 Dup	57	0.04	113	< 10	< 1	< 1	0.408
25282 Orig	10	0.01	12	< 10	1	< 1	0.120
25282 Dup	10	0.01	13	< 10	1	< 1	0.116
25306 Orig	17	0.04	27	< 10	2	2	0.330
25306 Dup	17	0.04	27	< 10	3	2	0.329
25332 Orig	23	0.14	46	< 10	4	6	0.309
25332 Dup	23	0.14	46	< 10	4	6	0.315
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 10-Jun-08
Invoice No.: A08-3060
Invoice Date: 27-Jun-08
Your Reference: DOSSIER 22419

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

83 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3060**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is fluid and cursive, written over a horizontal dotted line.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3060

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
30431	< 0.2	0.5	12	287	< 2	43	4	36	2.47	< 10	10	< 1	< 10	1.32	16	113	2.60	0.03	2.45	0.11	0.007	< 10	3	< 10	
30432	< 0.2	< 0.5	93	299	< 2	64	< 2	73	4.00	< 10	13	< 1	< 10	2.99	14	145	2.16	0.03	1.75	0.34	0.011	< 10	3	< 10	
30433	< 0.2	0.5	113	358	< 2	32	3	27	1.78	< 10	7	< 1	< 10	2.41	26	75	3.44	< 0.01	1.05	0.04	0.049	< 10	4	< 10	
30434	< 0.2	0.5	107	294	< 2	32	< 2	29	1.68	< 10	8	< 1	< 10	1.84	15	99	2.63	< 0.01	0.97	0.05	0.060	< 10	5	< 10	
30435	< 0.2	1.4	33	765	< 2	174	< 2	80	4.08	< 10	10	< 1	< 10	0.97	39	578	8.86	0.05	3.66	0.11	0.009	< 10	6	< 10	
30436	< 0.2	1.2	76	807	< 2	111	< 2	81	3.50	< 10	8	< 1	< 10	1.65	31	254	7.12	0.07	3.28	0.05	0.039	< 10	13	< 10	
30437	< 0.2	0.8	954	338	4	54	< 2	34	3.10	< 10	52	< 1	< 10	0.26	16	152	4.46	0.14	2.95	0.03	0.019	< 10	6	< 10	
30438	1.5	1.1	1090	398	< 2	76	< 2	50	3.17	< 10	48	< 1	< 10	0.40	21	118	4.96	0.16	3.10	0.06	0.023	< 10	8	< 10	
30439	< 0.2	1.0	199	497	< 2	61	6	43	2.39	< 10	7	< 1	< 10	1.21	50	61	5.69	< 0.01	1.71	0.04	0.055	< 10	5	< 10	
30440	0.7	0.7	1040	314	< 2	1630	5	28	5.78	< 10	18	< 1	< 10	2.94	56	136	3.29	0.03	3.21	0.31	0.002	< 10	3	< 10	
30441	< 0.2	1.1	148	580	< 2	47	3	50	2.42	< 10	7	< 1	< 10	1.20	35	65	5.55	0.02	1.81	0.05	0.059	< 10	7	< 10	
30442	< 0.2	1.3	117	482	< 2	38	5	44	2.04	< 10	12	< 1	< 10	1.53	31	51	4.35	0.02	1.32	0.09	0.062	< 10	7	< 10	
30443	< 0.2	0.9	119	501	< 2	43	6	38	2.69	< 10	9	< 1	< 10	1.76	31	52	5.27	0.02	1.50	0.11	0.064	< 10	8	< 10	
30444	1.0	1.0	796	281	< 2	371	17	31	2.42	< 10	9	< 1	< 10	1.47	40	131	3.06	0.02	1.74	0.07	0.027	< 10	3	< 10	
30445	1.7	0.7	1210	236	< 2	442	67	60	4.73	< 10	10	< 1	< 10	2.96	28	150	2.20	0.02	1.73	0.27	0.007	< 10	2	< 10	
30446	0.4	0.8	271	297	< 2	378	19	49	3.97	< 10	11	< 1	< 10	2.98	20	226	3.26	0.03	1.78	0.25	0.010	< 10	3	< 10	
30447	0.5	< 0.5	335	142	< 2	140	27	19	4.46	< 10	9	< 1	< 10	2.69	12	135	1.21	0.02	1.24	0.48	0.004	< 10	2	< 10	
30448	0.4	< 0.5	233	173	< 2	97	31	21	4.70	< 10	10	< 1	< 10	3.00	11	196	1.35	0.02	1.30	0.41	0.005	< 10	2	< 10	
30449	1.7	< 0.5	1070	116	< 2	302	40	23	4.55	< 10	10	< 1	< 10	2.93	20	124	1.23	0.02	1.07	0.39	0.006	< 10	2	< 10	
30450	0.9	2.5	8490	267	< 2	> 10000	6	42	0.50	< 10	5	< 1	< 10	0.36	531	30	25.4	0.10	0.15	0.08	0.044	< 10	3	< 10	
30451	1.9	0.8	1040	187	< 2	324	50	33	3.31	< 10	8	< 1	< 10	2.56	29	127	1.84	0.02	1.21	0.24	0.012	< 10	4	< 10	
30452	2.5	1.2	1220	196	< 2	695	11	101	2.48	< 10	7	< 1	< 10	0.52	60	229	3.07	< 0.01	3.28	0.04	0.007	< 10	2	< 10	
30453	1.2	0.7	542	234	< 2	604	9	77	2.15	< 10	8	< 1	< 10	0.83	47	219	2.96	0.02	2.64	0.07	0.023	< 10	2	< 10	
30454	3.3	2.3	2040	238	< 2	581	89	124	3.31	< 10	9	< 1	< 10	2.05	46	120	2.53	0.02	1.59	0.14	0.009	< 10	2	< 10	
30455	1.9	2.1	1420	220	< 2	456	35	137	3.93	< 10	9	< 1	< 10	2.33	37	112	2.69	0.02	1.73	0.20	0.008	< 10	2	< 10	
30456	2.7	3.3	1060	156	< 2	1060	103	142	4.81	< 10	9	< 1	< 10	2.81	73	114	4.99	0.01	1.01	0.39	0.006	< 10	2	< 10	
30457	3.0	3.7	3030	224	< 2	1740	76	244	4.43	< 10	15	< 1	< 10	1.53	111	138	8.12	0.08	1.89	0.30	0.008	< 10	2	< 10	
30458	2.4	2.9	2560	200	< 2	4930	31	152	2.13	< 10	7	< 1	< 10	0.69	115	41	22.8	0.16	1.31	0.12	0.016	< 10	4	< 10	
30459	6.7	5.3	5300	450	< 2	850	106	433	3.05	< 10	14	< 1	< 10	1.34	195	85	10.0	0.11	1.51	0.16	0.035	< 10	7	< 10	
30460	< 0.2	< 0.5	5	10	< 2	< 1	< 2	1	0.03	< 10	10	< 1	< 10	0.04	< 1	2	0.05	< 0.01	0.02	0.01	0.004	< 10	< 1	< 10	
30461	2.0	7.5	1440	536	< 2	3010	66	2970	2.64	< 10	8	< 1	< 10	0.27	162	146	17.2	0.51	2.13	0.03	0.007	< 10	7	< 10	
30462	3.5	3.1	2980	597	< 2	1000	106	1050	3.17	< 10	18	< 1	< 10	0.19	75	52	8.36	0.80	2.47	0.05	0.010	< 10	6	11	
30463	12.5	11.0	> 10000	552	< 2	1140	185	1550	4.01	< 10	12	< 1	< 10	0.25	89	43	12.4	0.57	3.55	0.06	0.011	< 10	11	15	
30464	21.9	6.2	> 10000	459	< 2	3430	409	613	1.52	< 10	10	< 1	< 10	30	54	226	37	21.0	0.43	1.58	0.03	0.016	< 10	4	13
30465	48.8	25.1	> 10000	571	< 2	1550	155	1580	1.83	< 10	7	< 1	< 10	1.9	63	140	50	16.9	0.06	1.93	0.02	0.020	< 10	6	14
30466	24.2	18.2	> 10000	385	< 2	1680	79	1250	2.15	< 10	7	< 1	< 10	0.29	136	57	15.3	0.10	1.44	0.06	0.012	< 10	3	11	
30467	31.6	30.8	> 10000	131	< 2	2310	36	1880	0.35	< 10	4	< 1	< 10	0.40	159	23	15.6	< 0.01	0.31	0.02	0.025	< 10	< 1	14	
30468	10.9	14.3	> 10000	219	< 2	3090	68	1230	1.15	< 10	5	< 1	< 10	0.40	181	41	17.7	0.02	0.70	0.06	0.014	< 10	2	< 10	
30469	11.5	7.1	> 10000	304	< 2	4470	127	831	1.77	< 10	7	< 1	< 10	0.84	195	31	24.6	0.08	0.98	0.10	0.011	< 10	3	< 10	
30470	0.8	0.8	1590	314	< 2	1600	4	27	5.81	< 10	19	< 1	< 10	2.98	57	139	3.32	0.03	3.20	0.31	0.002	< 10	3	< 10	
30471	8.7	10.3	8480	484	< 2	3060	55	540	0.68	< 10	5	< 1	< 10	0.97	221	51	17.2	< 0.01	1.00	0.02	0.024	< 10	2	11	
30472	4.0	8.1	3960	127	< 2	4630	43	601	0.96	< 10	7	< 1	< 10	0.33	439	26	23.3	0.05	0.52	0.05	0.014	< 10	1	< 10	
30473	5.3	13.9	4960	189	< 2	3900	40	738	0.50	< 10	4	< 1	< 10	0.44	544	47	21.6	< 0.01	0.35	0.03	0.020	< 10	1	< 10	
30474	4.1	10.8	3760	318	< 2	2380	186	892	3.04	< 10	8	< 1	< 10	2.07	626	40	16.5	0.08	0.93	0.24	0.005	< 10	4	< 10	
30475	3.8	30.7	2730	297	< 2	1710	187	1950	3.56	< 10	11	< 1	< 10	1.33	617	45	17.7	0.20	1.35	0.28	0.014	< 10	5	< 10	
30476	5.2	5.3	4760	320	< 2	1990	110	584	2.51	< 10	8	< 1	< 10	1.17	1420	34	21.9	0.13	1.11	0.13	0.018	< 10	3	< 10	
30477	4.1	5.8	4050	219	< 2	4120	89	400	1.66	< 10	9	< 1	< 10	0.76	639	24	25.2	0.09	0.66	0.10	0.009	< 10	2	< 10	
30478	9.7	18.1	8420	290	< 2	3390	74	1360	1.95	< 10	11	< 1	< 10	0.84	292	35	23.8	0.16	1.09	0.05	0.027	< 10	4	< 10	
30479	1.5	2.5	1200	200	< 2	221	28	159	1.84	< 10	10	< 1	< 10	0.51	44	68	5.36	0.07	1.02	0.12	0.041	< 10	3	< 10	
30480	0.6	0.6	1670	317	< 2	1650	4	27	6.10	< 10	19	< 1	< 10	3.00	57	140	3.41	0.03	3.28	0.33	0.002	< 10	3	< 10	
30481	0.9	1.3	1710	278	< 2	44	12	56	2.61	< 10	28	< 1	< 10	0.78	18	66	5.23	0.09	1.62	0.14	0.049	< 10	5	< 10	
30482	0.8	0.7	1260	157	< 2	37	8	36	1.61	< 10	20	< 1	< 10												

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30483	1.5	0.6	2640	129	<2	59	3	32	1.21	<10	21	<1	<10	0.56	20	66	2.93	0.07	0.98	0.05	0.060	<10	3	<10
30484	0.9	0.7	1000	74	<2	36	6	28	0.61	<10	41	<1	<10	0.43	16	71	2.72	0.18	0.74	0.10	0.073	<10	3	<10
30485	<0.2	0.6	108	75	<2	30	2	31	2.41	<10	143	<1	<10	1.17	15	63	2.99	0.44	1.12	0.27	0.098	<10	6	<10
30486	<0.2	1.0	193	244	<2	33	4	67	4.32	<10	103	<1	<10	1.72	20	66	5.04	0.88	2.60	0.32	0.096	<10	11	<10
30487	0.4	1.2	467	546	<2	37	4	87	4.17	<10	112	<1	<10	1.38	24	63	5.42	1.12	2.78	0.12	0.081	<10	14	<10
30488	<0.2	<0.5	12	255	<2	7	3	53	2.60	<10	128	<1	<10	0.39	8	70	2.30	0.67	1.71	0.10	0.023	<10	5	<10
30489	<0.2	0.5	6	297	<2	13	3	65	2.72	<10	116	<1	<10	0.17	8	60	2.66	0.59	2.07	0.05	0.028	<10	6	<10
30490	0.6	0.6	1580	320	<2	1640	3	27	5.90	<10	19	<1	<10	3.01	59	141	3.37	0.03	3.29	0.32	0.002	<10	3	<10
30491	<0.2	0.6	5	321	<2	10	<2	90	3.36	<10	144	<1	<10	0.20	12	66	3.34	0.81	2.38	0.07	0.043	<10	8	<10
30492	<0.2	0.5	4	241	<2	6	<2	63	2.67	<10	75	<1	<10	0.09	7	62	2.40	0.59	2.01	0.04	0.018	<10	3	<10
30493	0.7	1.4	1340	424	4	40	40	118	2.35	<10	18	<1	<10	0.51	59	44	9.20	0.24	1.98	0.05	0.079	<10	8	<10
30213	<0.2	<0.5	62	127	<2	49	<2	12	3.12	<10	34	<1	<10	2.11	12	99	1.25	0.09	0.77	0.40	0.014	<10	2	<10
30214	<0.2	<0.5	48	99	<2	48	<2	8	4.04	<10	39	<1	<10	2.83	10	85	1.06	0.08	0.63	0.66	0.008	<10	2	<10
30215	0.2	<0.5	375	118	<2	46	<2	12	2.44	<10	52	<1	<10	1.83	13	98	1.22	0.10	0.77	0.34	0.014	<10	3	<10
30216	<0.2	<0.5	86	92	<2	23	<2	6	2.92	<10	13	<1	<10	2.27	7	80	0.74	0.01	0.60	0.39	0.020	<10	3	<10
30217	<0.2	<0.5	21	88	<2	22	<2	6	2.84	<10	11	<1	<10	2.16	7	68	0.71	0.01	0.67	0.36	0.027	<10	2	<10
30218	<0.2	<0.5	15	63	<2	15	<2	5	3.36	<10	14	<1	<10	2.52	4	60	0.45	0.01	0.39	0.43	0.011	<10	2	<10
30219	0.7	0.6	1830	366	<2	116	4	23	1.31	<10	69	<1	<10	0.75	42	600	2.66	0.07	1.48	0.06	0.019	<10	4	<10
30220	0.8	0.7	1530	316	<2	1630	<2	27	5.95	<10	19	<1	<10	2.98	57	140	3.35	0.03	3.29	0.32	0.002	<10	3	<10
30221	0.4	0.6	692	222	<2	416	<2	53	2.60	<10	12	<1	<10	0.43	48	44	3.20	0.03	3.47	0.05	0.005	<10	1	<10
30222	0.8	0.7	1520	167	<2	476	3	59	2.09	<10	28	<1	<10	0.39	43	49	2.60	0.08	2.64	0.05	0.010	<10	1	<10
30223	<0.2	0.7	809	150	<2	34	<2	27	2.62	<10	18	<1	<10	2.21	30	17	3.12	0.03	0.65	0.23	0.077	<10	5	<10
30224	0.7	1.1	2000	219	<2	660	<2	69	2.78	<10	12	<1	<10	0.86	53	111	3.16	0.02	3.22	0.07	0.009	<10	2	<10
30225	0.3	<0.5	636	107	<2	86	3	15	6.63	<10	22	<1	<10	4.48	7	46	0.89	0.02	0.44	0.67	0.010	<10	2	<10
30226	<0.2	<0.5	278	88	<2	29	<2	8	2.98	<10	11	<1	<10	2.18	9	45	0.72	<0.01	0.39	0.41	0.014	<10	2	<10
30227	0.3	<0.5	486	96	<2	31	<2	7	4.36	<10	7	<1	<10	3.63	8	117	0.64	<0.01	0.48	0.29	0.016	<10	1	<10
30228	<0.2	<0.5	147	47	<2	34	4	4	5.54	<10	15	<1	<10	4.00	5	89	0.47	0.04	0.39	0.66	0.010	<10	1	<10
30229	0.5	<0.5	503	125	<2	30	<2	13	2.97	<10	14	<1	<10	2.41	10	67	0.91	<0.01	0.65	0.36	0.013	<10	4	<10
30230	<0.2	<0.5	3	11	<2	<1	3	1	0.03	<10	8	<1	<10	0.04	<1	<2	0.04	<0.01	0.01	0.01	0.003	<10	<1	<10
30231	<0.2	<0.5	151	58	<2	89	<2	6	4.18	<10	14	<1	<10	3.20	12	39	0.56	<0.01	0.32	0.49	0.012	<10	1	<10
30232	<0.2	<0.5	86	64	<2	33	3	5	6.46	<10	21	<1	<10	4.80	5	63	0.93	0.04	0.46	0.61	0.003	<10	2	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30431	20	0.02	18	< 10	12	3	0.018
30432	47	0.03	27	< 10	1	2	0.028
30433	22	0.20	114	< 10	8	6	0.279
30434	25	0.32	102	< 10	11	6	0.052
30435	12	0.13	94	< 10	4	4	0.116
30436	22	0.24	140	< 10	10	6	0.044
30437	5	0.11	32	< 10	14	5	0.128
30438	13	0.11	42	< 10	11	4	0.278
30439	14	0.21	110	< 10	9	4	0.896
30440	61	0.02	32	< 10	< 1	1	0.479
30441	11	0.15	123	< 10	9	4	0.339
30442	14	0.12	110	< 10	9	3	0.217
30443	24	0.13	147	< 10	8	3	0.235
30444	20	0.07	51	< 10	3	2	0.370
30445	69	0.01	13	< 10	< 1	< 1	0.249
30446	42	0.02	26	< 10	2	2	0.724
30447	76	< 0.01	10	< 10	< 1	< 1	0.076
30448	71	0.01	16	< 10	< 1	< 1	0.051
30449	78	0.01	11	< 10	< 1	< 1	0.224
30450	13	0.08	57	< 10	15	17	8.414
30451	51	0.02	22	< 10	1	1	0.422
30452	3	0.03	18	< 10	< 1	1	0.414
30453	5	0.03	17	< 10	2	2	0.466
30454	36	0.02	13	< 10	< 1	1	0.666
30455	49	0.01	13	< 10	< 1	1	0.637
30456	69	< 0.01	12	< 10	< 1	2	1.806
30457	47	0.02	18	< 10	1	4	3.315
30458	9	0.06	53	17	2	7	6.935
30459	16	0.08	126	< 10	5	4	3.679
30460	1	< 0.01	< 1	< 10	< 1	4	0.019
30461	4	0.07	71	< 10	3	6	6.694
30462	9	0.05	19	< 10	4	4	2.767
30463	13	0.06	81	< 10	1	4	3.682
30464	4	0.07	74	15	1	7	5.878
30465	6	0.02	55	< 10	2	6	5.235
30466	5	0.02	86	< 10	< 1	5	5.648
30467	2	< 0.01	37	< 10	< 1	7	7.247
30468	5	0.01	73	13	< 1	6	6.930
30469	9	0.02	94	< 10	< 1	7	7.002
30470	61	0.02	33	< 10	< 1	1	0.487
30471	3	0.02	26	< 10	2	6	6.549
30472	4	0.02	99	< 10	< 1	8	6.827
30473	2	0.02	53	< 10	1	8	6.786
30474	24	0.02	116	< 10	1	6	7.466
30475	23	0.04	140	11	1	6	8.333
30476	12	0.04	116	< 10	2	6	6.520
30477	8	0.03	76	< 10	1	7	7.326
30478	9	0.04	109	15	3	7	7.038
30479	16	0.05	176	< 10	5	3	0.894
30480	63	0.02	33	< 10	< 1	1	0.490
30481	24	0.07	159	< 10	8	2	0.271
30482	13	0.07	136	< 10	8	2	0.216

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30483	7	0.06	134	< 10	6	2	0.458
30484	7	0.10	137	< 10	6	3	0.268
30485	17	0.09	149	< 10	7	2	0.052
30486	22	0.14	129	< 10	8	2	0.056
30487	15	0.22	117	< 10	9	2	0.091
30488	18	0.11	14	< 10	4	5	0.008
30489	10	0.06	25	< 10	4	4	0.006
30490	63	0.02	33	< 10	< 1	1	0.497
30491	16	0.14	44	< 10	5	4	0.006
30492	13	0.08	9	< 10	5	6	0.006
30493	20	0.05	35	< 10	9	7	4.893
30213	39	0.05	25	< 10	1	< 1	0.131
30214	55	0.04	24	< 10	< 1	< 1	0.128
30215	32	0.07	26	< 10	1	1	0.120
30216	48	0.03	18	< 10	1	< 1	0.029
30217	44	0.05	15	< 10	< 1	< 1	0.017
30218	55	0.02	10	< 10	< 1	< 1	0.019
30219	7	0.31	193	< 10	7	4	0.299
30220	62	0.02	33	< 10	< 1	1	0.487
30221	1	0.03	18	< 10	< 1	1	0.112
30222	1	0.04	15	< 10	< 1	1	0.236
30223	54	0.07	16	< 10	9	2	1.129
30224	5	0.04	17	< 10	< 1	1	0.292
30225	142	0.02	24	< 10	1	< 1	0.141
30226	36	0.02	15	< 10	< 1	< 1	0.116
30227	34	0.01	9	< 10	1	< 1	0.086
30228	72	0.02	9	< 10	< 1	< 1	0.049
30229	24	0.03	25	< 10	1	< 1	0.121
30230	1	< 0.01	< 1	< 10	< 1	3	0.015
30231	69	0.01	7	< 10	< 1	< 1	0.155
30232	106	0.01	9	< 10	< 1	< 1	0.053

Activation Laboratories Ltd. Report: A08-3060

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.5	3.4	1070	878	14	34	597	524	0.35	357	139	<1	1410	0.85	8	7	22.8	0.03	0.13	0.05	0.040	74	1	28
GXR-1 Cert	31.0	3.3	1110	852	18	41	730	760	3.52	427	750	1	1380	0.96	8	12	23.6	0.05	0.22	0.05	0.065	122	2	54
GXR-4 Meas	3.3	0.7	5920	141	323	40	42	58	2.75	95	26	1	19	0.99	17	56	3.25	1.33	1.65	0.12	0.112	<10	7	<10
GXR-4 Cert	4.0	0.9	6620	156	310	42	62	73	7.20	98	1640	2	16	1.01	15	64	3.09	4.01	1.65	0.65	0.120	5	8	6
GXR-2 Meas	20.5	5.2	84	1170	<2	19	856	610	3.67	14	980	1	<10	0.87	12	28	2.24	0.57	0.57	0.23	0.057	23	5	<10
GXR-2 Cert	17.0	4.1	78	1037	2	21	890	530	16.50	25	2240	2	1	0.93	9	35	1.86	1.37	0.85	3.56	0.105	49	7	2
GXR-6 Meas	0.3	1.5	69	1110	<2	27	103	126	7.59	220	873	<1	<10	0.16	16	87	5.35	0.96	0.44	0.15	0.032	<10	23	<10
GXR-6 Cert	1.3	1.0	66	1007	2	27	101	118	17.70	330	1300	1	0	0.18	14	95	5.58	1.87	0.51	3.10	0.035	4	28	2
OREAS 13P Meas			2390				2200										5.27							
OREAS 13P Cert			2500				2261										7.58							
30438 Ong	2.1	1.1	1090	401	<2	75	<2	50	3.18	<10	49	<1	<10	0.41	21	119	4.98	0.15	3.13	0.06	0.023	<10	8	<10
30438 Dup	0.8	1.0	1090	392	<2	75	3	50	3.15	<10	48	<1	<10	0.40	20	117	4.95	0.15	3.08	0.05	0.023	<10	8	<10
30451 Ong	1.9	0.7	1060	183	<2	323	49	32	3.28	<10	8	<1	<10	2.54	30	126	1.83	0.02	1.20	0.24	0.012	<10	4	<10
30451 Dup	1.9	0.9	1040	190	<2	328	51	34	3.33	<10	9	<1	<10	2.58	29	129	1.86	0.02	1.22	0.24	0.012	<10	4	<10
30455 Ong	49.8	25.5	>10000	575	<2	1530	159	1820	1.88	<10	7	<1	23	0.62	139	50	15.4	0.06	1.97	0.02	0.020	<10	6	14
30455 Dup	48.1	24.8	>10000	566	<2	1570	151	1550	1.80	<10	8	<1	15	0.64	141	50	17.4	0.06	1.85	0.02	0.019	<10	6	13
30488 Ong	<0.2	0.6	14	252	<2	8	4	55	3.02	<10	134	<1	<10	0.41	8	75	2.40	0.70	1.78	0.11	0.023	<10	6	<10
30488 Dup	<0.2	<0.5	10	247	<2	7	2	51	2.77	<10	123	<1	<10	0.37	7	65	2.21	0.64	1.64	0.09	0.022	<10	5	<10
30221 Ong	0.5	0.5	698	223	<2	421	3	53	2.84	15	13	<1	<10	0.44	51	44	3.23	0.03	3.48	0.05	0.005	<10	1	<10
30221 Dup	0.4	0.5	666	220	<2	410	<2	52	2.75	<10	12	<1	<10	0.43	45	44	3.16	0.03	3.45	0.05	0.005	<10	1	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	178		76	194	23	16	0.201
GXR-1 Cert	275		80	164	32	38	0.257
GXR-4 Meas	69		84	12	12	10	1.808
GXR-4 Cert	221		87	31	14	186	1.770
GXR-2 Meas	86		52	< 10	12	10	0.039
GXR-2 Cert	180		52	2	17	289	0.031
GXR-6 Meas	30		185	< 10	6	9	0.015
GXR-6 Cert	35		186	2	14	110	0.016
OREAS 13P Meas							
OREAS 13P Cert							
30438 Orig	13	0.11	42	< 10	11	4	0.277
30438 Dup	13	0.10	41	< 10	10	4	0.275
30461 Orig	50	0.02	21	< 10	1	1	0.420
30461 Dup	51	0.02	22	< 10	1	1	0.426
30465 Orig	8	0.02	55	< 10	2	6	5.125
30465 Dup	6	0.02	55	13	2	6	5.346
30488 Orig	17	0.12	15	< 10	5	5	0.008
30488 Dup	16	0.11	14	< 10	4	5	0.007
30221 Orig	1	0.03	19	< 10	< 1	1	0.116
30221 Dup	1	0.03	16	< 10	< 1	1	0.107
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 10-Jun-08
Invoice No.: A08-3061
Invoice Date: 23-Jun-08
Your Reference: DOSSIER 22420

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

88 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3061**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3061

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
30233	0.4	< 0.5	141	65	< 2	46	79	6	5.87	< 10	33	< 1	< 10	4.19	7	67	0.50	0.03	0.35	0.56	0.005	< 10	1	< 10
30234	< 0.2	< 0.5	116	61	< 2	24	7	4	6.47	< 10	18	< 1	< 10	4.58	4	75	0.44	0.01	0.38	0.63	0.005	< 10	2	< 10
30235	< 0.2	< 0.5	134	37	< 2	38	7	5	9.15	< 10	88	< 1	< 10	6.22	5	152	0.44	0.07	0.55	0.66	0.019	< 10	1	< 10
30236	< 0.2	< 0.5	131	48	< 2	127	< 2	12	6.62	< 10	158	< 1	< 10	4.02	15	461	1.40	0.57	1.40	0.56	0.006	< 10	5	< 10
30237	< 0.2	< 0.5	144	51	< 2	32	4	6	7.35	< 10	27	< 1	< 10	5.15	5	100	0.52	0.04	0.42	0.58	0.006	< 10	2	< 10
30238	< 0.2	< 0.5	86	68	< 2	77	2	8	7.38	< 10	28	< 1	< 10	4.77	11	102	0.81	0.06	0.61	0.60	0.007	< 10	1	< 10
30239	0.3	0.5	246	106	< 2	61	3	21	3.67	< 10	122	< 1	< 10	1.64	12	200	2.18	0.69	1.73	0.29	0.016	< 10	5	< 10
30240	0.5	0.5	1970	307	< 2	1630	< 2	26	5.93	< 10	19	< 1	< 10	2.89	59	198	3.42	0.03	3.33	0.32	0.002	< 10	3	< 10
30241	< 0.2	< 0.5	96	120	< 2	57	< 2	13	5.75	< 10	29	< 1	< 10	4.05	8	182	1.09	0.59	0.90	0.35	0.008	< 10	2	< 10
30242	1.1	0.8	1150	82	< 2	49	< 2	29	1.63	< 10	95	< 1	< 10	0.24	20	62	2.70	0.40	1.30	0.09	0.018	< 10	3	< 10
30243	0.7	0.8	781	56	< 2	56	< 2	23	2.59	< 10	93	< 1	< 10	0.74	19	75	2.40	0.37	1.29	0.12	0.028	< 10	3	< 10
30244	0.3	< 0.5	286	62	< 2	77	4	6	5.67	< 10	22	< 1	< 10	4.15	8	93	0.73	0.04	0.51	0.64	0.007	< 10	2	< 10
30245	0.2	< 0.5	236	84	< 2	176	< 2	11	6.20	< 10	35	< 1	< 10	4.23	20	202	1.34	0.14	1.01	0.43	0.008	< 10	2	< 10
30246	0.7	0.9	562	53	< 2	211	2	9	6.94	< 10	15	< 1	< 10	4.61	18	126	0.85	0.05	0.59	0.63	0.007	< 10	2	< 10
30247	< 0.2	< 0.5	177	40	< 2	105	4	6	5.76	< 10	25	< 1	< 10	3.95	11	112	0.67	0.08	0.59	0.45	0.008	< 10	1	< 10
30248	0.2	< 0.5	226	58	< 2	72	5	7	6.24	< 10	22	< 1	< 10	4.12	8	104	0.69	0.06	0.44	0.67	0.008	< 10	2	< 10
30249	< 0.2	< 0.5	119	45	< 2	61	3	5	8.09	< 10	20	< 1	< 10	5.71	7	78	0.58	0.05	0.32	0.61	0.011	< 10	1	< 10
30250	1.1	2.7	9190	243	< 2	> 10000	< 2	39	0.66	< 10	20	< 1	< 10	0.38	601	31	33.3	0.11	0.16	0.09	0.048	< 10	3	< 10
30251	0.5	0.8	230	193	< 2	26	< 2	25	2.59	< 10	359	< 1	< 10	0.15	13	73	2.58	0.81	1.87	0.14	0.017	< 10	8	< 10
30252	0.7	0.8	463	129	< 2	144	< 2	39	3.67	< 10	407	< 1	< 10	0.72	29	455	4.39	1.44	3.08	0.26	0.009	< 10	12	< 10
30253	1.5	0.6	679	46	< 2	124	< 2	10	6.33	< 10	28	< 1	< 10	4.27	15	81	0.82	0.06	0.36	0.60	0.007	< 10	1	< 10
30254	0.8	< 0.5	359	62	< 2	117	16	8	6.49	< 10	23	< 1	< 10	4.37	13	86	0.85	0.04	0.47	0.69	0.009	< 10	2	< 10
30255	2.3	1.1	926	97	< 2	154	12	16	5.45	< 10	14	< 1	< 10	3.76	22	77	1.20	0.02	0.58	0.58	0.012	< 10	2	< 10
30256	1.3	0.9	456	67	< 2	129	< 2	11	6.85	< 10	18	< 1	< 10	4.62	17	129	0.96	0.09	0.68	0.57	0.011	< 10	2	< 10
30257	0.4	< 0.5	177	73	< 2	104	8	9	6.85	< 10	24	< 1	< 10	4.70	14	67	1.01	0.03	0.75	0.53	0.009	< 10	2	< 10
30258	0.2	< 0.5	116	53	< 2	72	5	7	6.48	< 10	14	< 1	< 10	4.39	10	48	0.62	0.03	0.46	0.62	0.011	< 10	1	< 10
30259	0.4	< 0.5	219	94	< 2	94	6	10	8.48	< 10	11	< 1	< 10	4.55	13	73	0.89	< 0.01	0.58	0.61	0.010	< 10	2	< 10
30260	< 0.2	< 0.5	3	9	< 2	< 1	< 2	2	0.05	< 10	8	< 1	< 10	0.04	< 1	2	0.66	0.01	0.02	0.01	0.004	< 10	< 1	< 10
30261	0.3	< 0.5	149	79	< 2	53	9	9	4.67	< 10	9	< 1	< 10	3.44	7	55	0.71	0.01	0.53	0.38	0.028	< 10	2	< 10
30262	0.4	< 0.5	320	116	< 2	87	12	15	5.18	< 10	13	< 1	< 10	3.56	12	95	0.96	< 0.01	0.62	0.58	0.014	< 10	3	< 10
30263	0.5	< 0.5	490	61	< 2	101	6	8	5.31	< 10	14	< 1	< 10	3.70	11	68	0.98	< 0.01	0.30	0.96	0.011	< 10	1	< 10
30264	0.5	< 0.5	334	91	< 2	132	19	17	5.98	< 10	11	< 1	< 10	4.28	15	94	0.88	0.02	0.57	0.56	0.009	< 10	2	< 10
30265	0.4	< 0.5	211	111	< 2	52	< 2	19	4.65	< 10	13	< 1	< 10	3.17	8	104	0.79	0.02	0.63	0.62	0.007	< 10	3	< 10
30266	0.4	< 0.5	277	120	< 2	81	14	20	4.96	< 10	9	< 1	< 10	3.78	11	81	0.80	0.02	0.57	0.41	0.007	< 10	3	< 10
30267	0.9	0.5	523	109	< 2	96	25	39	4.21	< 10	16	< 1	< 10	2.69	14	82	1.02	0.11	0.73	0.53	0.008	< 10	2	< 10
30268	0.9	1.2	548	142	< 2	172	26	58	3.65	< 10	11	< 1	< 10	2.51	19	111	1.31	0.06	0.72	0.41	0.010	< 10	3	< 10
30269	11.1	3.9	7060	121	< 2	2120	33	126	3.41	< 10	9	< 1	< 10	2.41	256	82	8.93	0.02	0.63	0.16	0.015	< 10	2	< 10
30270	0.6	0.7	1520	289	< 2	1530	< 2	24	5.71	< 10	18	< 1	< 10	2.75	55	130	3.17	0.03	3.08	0.31	0.002	< 10	3	< 10
30271	2.1	2.2	1210	200	< 2	339	49	99	4.46	< 10	16	< 1	< 10	3.12	32	100	2.60	0.21	1.08	0.38	0.008	< 10	3	< 10
30272	2.2	2.0	1290	170	< 2	341	48	98	4.41	< 10	18	< 1	< 10	2.97	33	95	2.40	0.22	1.00	0.36	0.008	< 10	3	< 10
30273	< 0.2	< 0.5	111	448	< 2	37	7	27	0.41	< 10	9	2	11	0.11	3	81	0.56	0.11	1.17	0.05	0.004	< 10	2	12
30274	3.4	3.9	3630	232	< 2	1850	58	276	3.26	< 10	25	3	< 10	1.28	160	179	10.0	0.84	2.21	0.29	0.008	< 10	3	< 10
30275	1.8	3.4	1450	320	< 2	650	72	276	3.07	< 10	38	2	< 10	1.49	51	157	4.73	0.58	2.01	0.31	0.006	< 10	4	< 10
30276	6.1	8.8	5460	265	< 2	1340	95	429	2.44	< 10	31	< 1	< 10	1.19	104	160	7.69	0.49	1.59	0.24	0.007	< 10	3	< 10
30277	6.4	8.1	6170	212	< 2	3970	89	371	2.03	< 10	8	< 1	< 10	0.71	243	176	15.9	0.89	1.75	0.16	0.006	< 10	3	< 10
30278	10.3	14.5	> 10000	190	< 2	2670	83	551	1.95	< 10	15	< 1	< 10	0.96	220	163	12.9	0.40	1.34	0.19	0.007	< 10	3	< 10
30279	3.8	6.6	2810	280	< 2	386	96	285	1.03	< 10	39	1	< 10	0.25	35	148	2.91	0.33	0.78	0.08	0.012	< 10	3	15
30280	< 0.2	< 0.5	10	11	< 2	< 1	< 2	2	0.04	< 10	9	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10
30281	0.5	0.8	336	174	< 2	155	31	54	3.48	< 10	18	< 1	< 10	2.26	17	142	1.78	0.25	1.21	0.44	0.007	< 10	3	< 10
30494	< 0.2	< 0.5	38	42	< 2	15	6	13	0.39	< 10	6	< 1	< 10	0.06	1	80	0.31	0.13	0.06	0.04	0.003	< 10	2	22
30495	0.2	< 0.5	127	70	< 2	49	26	35	0.44	< 10	6	< 1	< 10	0.08	4	103	0.83	0.15	0.23	0.04	0.010	< 10	2	16
30496	< 0.2	< 0.5	183	67	< 2	16	21	14	0.16	< 10	5	< 1	< 10	0.08	3	55	0.45	0.05	0.05	0.04	0.005	< 10	< 1	< 10

Activation Laboratories Ltd. Report: A08-3061

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
30497	3.9	7.8	3430	114	<2	2670	75	486	2.47	<10	17	<1	<10	1.40	343	70	12.1	0.28	0.87	0.23	0.011	<10	4	10
30498	7.4	9.6	5080	44	<2	944	345	455	6.28	<10	30	<1	12	4.24	75	66	5.52	0.05	0.23	0.52	0.012	<10	2	<10
30499	5.5	3.9	4390	50	<2	1700	180	219	5.04	<10	11	<1	<10	3.22	128	72	8.41	0.01	0.19	0.39	0.010	<10	2	<10
30500	1.0	2.6	8560	268	<2	>10000	3	40	0.50	<10	6	<1	<10	0.37	685	30	31.7	0.11	0.16	0.06	0.046	10	3	<10
30501	7.1	7.8	5420	66	<2	1410	276	355	4.86	<10	14	<1	<10	3.29	109	66	7.57	0.02	0.20	0.44	0.010	<10	2	<10
30502	6.2	7.0	5380	302	<2	1120	179	700	3.28	<10	17	<1	<10	1.08	150	870	5.15	0.10	2.57	0.09	0.012	<10	2	<10
30503	4.4	3.3	2570	266	<2	2720	252	365	2.96	<10	13	<1	<10	1.34	156	284	12.5	0.08	1.54	0.11	0.007	<10	2	<10
30504	6.0	4.5	4100	294	<2	3650	168	482	2.09	<10	14	<1	<10	0.57	240	263	15.2	0.07	1.76	0.06	0.006	<10	2	<10
30505	4.9	6.2	4130	192	<2	2790	121	483	2.43	<10	9	<1	<10	1.42	145	217	11.9	0.52	0.81	0.15	0.007	<10	2	<10
30506	3.8	1.8	3520	283	<2	946	17	118	1.40	<10	14	<1	<10	0.89	495	114	13.4	0.03	0.61	0.09	0.078	<10	6	<10
30507	7.7	6.0	6990	171	<2	2440	28	578	1.05	<10	27	<1	<10	0.31	118	88	10.8	0.15	0.72	0.07	0.014	<10	2	<10
30508	1.2	1.6	959	368	<2	63	16	146	2.43	<10	11	<1	<10	1.70	33	43	7.14	0.01	0.54	0.20	0.114	<10	6	<10
30509	<0.2	1.3	52	317	<2	16	5	91	2.45	<10	29	<1	<10	1.75	25	49	7.32	0.09	0.75	0.20	0.115	<10	8	<10
30510	<0.2	<0.5	5	13	<2	<1	<2	2	0.04	<10	9	<1	<10	0.04	<1	2	0.06	0.01	0.02	0.01	0.004	<10	<1	<10
30511	<0.2	0.8	47	324	<2	15	6	86	2.44	<10	159	<1	<10	0.57	18	57	4.17	0.50	1.40	0.07	0.049	<10	6	<10
30512	<0.2	0.7	46	333	2	16	6	85	2.63	<10	126	<1	<10	0.18	8	62	3.11	0.76	1.73	0.06	0.032	<10	6	<10
30513	1.9	5.9	1350	694	<2	34	14	352	3.76	<10	166	<1	<10	0.86	16	38	6.07	0.86	2.83	0.06	0.069	<10	10	<10
30514	3.1	3.3	3220	955	2	1660	16	359	2.62	<10	19	<1	<10	0.57	225	48	12.5	0.54	2.31	0.03	0.048	<10	6	<10
30515	<0.2	1.0	60	491	<2	25	12	185	3.95	<10	298	<1	<10	0.25	11	104	5.12	0.95	2.38	0.09	0.053	<10	11	<10
30516	<0.2	0.8	33	434	3	22	13	85	3.12	<10	272	<1	<10	0.28	8	131	4.08	0.52	1.83	0.07	0.052	<10	8	12
30517	36.2	6.1	>10000	686	<2	462	75	208	3.30	<10	26	<1	<10	1.35	52	84	10.8	0.10	2.33	0.02	0.054	<10	8	21
30518	0.9	2.3	694	544	<2	48	48	124	2.42	<10	13	<1	<10	1.85	24	108	5.13	0.04	1.18	0.12	0.055	<10	10	<10
30519	0.4	1.5	311	597	<2	53	29	95	2.52	<10	12	<1	<10	2.03	27	152	5.60	0.04	1.40	0.12	0.055	<10	12	<10
30520	0.7	0.9	1680	311	<2	1620	2	26	6.33	<10	20	<1	<10	2.92	59	140	3.50	0.03	3.35	0.36	0.003	<10	3	<10
30521	0.2	1.4	334	375	<2	44	53	86	2.30	<10	11	<1	<10	1.76	29	123	4.14	0.03	0.87	0.23	0.032	<10	8	<10
30522	0.5	1.7	590	426	<2	62	66	112	2.69	<10	12	<1	<10	2.33	30	103	5.24	0.04	1.02	0.27	0.056	<10	9	<10
26658	<0.2	0.5	73	279	<2	148	4	27	7.38	<10	14	<1	<10	4.95	19	349	2.47	0.05	1.93	0.68	0.005	<10	4	<10
26659	<0.2	<0.5	96	217	<2	122	2	21	6.35	<10	10	<1	<10	3.82	19	178	2.04	0.03	1.98	0.58	0.006	<10	2	<10
26660	<0.2	<0.5	3	11	<2	<1	<2	<1	0.05	<10	7	<1	<10	0.04	<1	3	0.05	0.01	0.02	0.01	0.004	<10	<1	<10
26661	<0.2	<0.5	9	96	<2	42	3	10	4.01	<10	9	<1	<10	2.42	7	181	1.00	0.02	0.85	0.46	0.002	<10	3	<10
26662	0.3	1.1	546	309	<2	116	<2	47	3.68	<10	124	<1	<10	1.23	38	341	5.62	0.42	2.75	0.16	0.017	<10	7	<10
26663	<0.2	<0.5	86	249	<2	82	3	18	5.18	<10	16	<1	<10	3.81	12	194	1.66	0.05	1.70	0.48	0.008	<10	3	<10
26664	<0.2	<0.5	186	128	<2	126	<2	18	5.84	<10	8	<1	<10	3.68	19	96	1.62	0.03	1.77	0.36	0.004	<10	2	<10
26665	<0.2	<0.5	86	84	<2	29	<2	7	6.01	<10	11	<1	<10	3.91	5	107	0.67	0.02	0.68	0.66	0.004	<10	2	<10
26666	<0.2	<0.5	153	151	<2	45	3	9	5.83	<10	11	<1	<10	3.88	8	115	1.03	0.02	1.04	0.66	0.004	<10	3	<10
26667	<0.2	<0.5	41	202	<2	54	<2	20	5.68	<10	10	<1	<10	3.33	11	126	1.63	0.03	1.60	0.45	0.005	<10	3	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30233	85	0.01	7	< 10	< 1	< 1	0.104
30234	96	< 0.01	7	< 10	< 1	< 1	0.056
30235	83	0.01	13	< 10	2	< 1	0.068
30236	64	0.07	80	< 10	< 1	< 1	0.074
30237	81	0.02	12	< 10	< 1	< 1	0.056
30238	83	0.02	13	< 10	< 1	< 1	0.097
30239	27	0.11	39	< 10	5	3	0.151
30240	64	0.02	33	< 10	< 1	2	0.483
30241	48	0.02	24	< 10	2	< 1	0.043
30242	4	0.09	31	< 10	5	6	0.702
30243	11	0.07	47	< 10	3	3	0.815
30244	93	0.02	14	< 10	< 1	< 1	0.099
30245	77	0.03	18	< 10	< 1	< 1	0.157
30246	100	0.02	13	< 10	< 1	< 1	0.206
30247	82	0.02	11	< 10	< 1	< 1	0.093
30248	80	0.02	14	< 10	< 1	< 1	0.099
30249	109	0.02	11	< 10	< 1	< 1	0.128
30250	16	0.07	62	< 10	15	16	6.012
30251	5	0.12	35	< 10	3	3	0.064
30252	11	0.15	93	< 10	2	3	0.366
30253	88	0.02	9	< 10	< 1	< 1	0.257
30254	92	0.02	13	< 10	< 1	< 1	0.185
30255	77	0.02	16	< 10	< 1	< 1	0.319
30256	103	0.02	13	< 10	< 1	< 1	0.199
30257	107	0.03	16	< 10	< 1	< 1	0.108
30258	102	0.02	10	< 10	< 1	< 1	0.083
30259	109	0.02	14	< 10	< 1	< 1	0.128
30260	2	< 0.01	< 1	< 10	1	4	0.016
30261	75	0.02	12	< 10	< 1	< 1	0.064
30262	77	0.03	13	< 10	< 1	< 1	0.130
30263	82	0.01	8	< 10	< 1	< 1	0.146
30264	98	0.02	13	< 10	< 1	< 1	0.150
30265	75	0.02	14	< 10	< 1	< 1	0.067
30266	83	0.03	15	< 10	< 1	< 1	0.122
30267	83	0.03	15	< 10	< 1	< 1	0.144
30268	55	0.03	16	< 10	< 1	< 1	0.316
30269	50	0.05	34	< 10	1	3	4.321
30270	60	0.02	31	< 10	< 1	1	0.459
30271	81	0.04	26	< 10	< 1	2	0.776
30272	59	0.04	24	< 10	< 1	2	0.796
30273	2	< 0.01	3	< 10	6	4	0.097
30274	25	0.06	36	< 10	< 1	4	4.096
30275	25	0.06	33	< 10	< 1	3	1.430
30276	18	0.05	26	< 10	< 1	3	3.205
30277	10	0.08	33	< 10	< 1	5	8.531
30278	13	0.05	31	< 10	< 1	5	5.912
30279	5	0.03	16	< 10	5	11	1.177
30280	1	< 0.01	< 1	< 10	< 1	4	0.019
30281	48	0.05	25	< 10	< 1	1	0.237
30494	2	< 0.01	< 1	< 10	12	14	0.037
30495	1	< 0.01	4	< 10	6	15	0.148
30496	< 1	< 0.01	< 1	< 10	5	10	0.078

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30497	25	0.03	42	< 10	1	5	4.926
30498	66	0.02	67	< 10	1	2	2.416
30499	48	0.01	70	< 10	< 1	3	3.599
30500	14	0.08	60	< 10	16	18	8.472
30501	54	0.01	71	< 10	1	3	3.080
30502	18	0.05	72	< 10	1	3	2.818
30503	26	0.03	54	< 10	< 1	4	4.956
30504	9	0.04	48	< 10	< 1	6	4.182
30505	18	0.02	43	< 10	< 1	4	4.286
30506	12	0.10	86	< 10	9	6	6.696
30507	4	0.05	64	< 10	2	4	3.853
30508	31	0.10	96	< 10	11	3	0.436
30509	30	0.11	104	< 10	17	4	0.174
30510	1	< 0.01	< 1	< 10	< 1	4	0.018
30511	8	0.13	44	< 10	10	6	0.150
30512	5	0.13	19	< 10	10	8	0.023
30513	10	0.14	70	< 10	11	5	0.470
30514	4	0.10	37	< 10	9	7	4.890
30515	8	0.18	89	< 10	7	5	0.034
30516	11	0.08	57	< 10	11	5	0.051
30517	5	0.11	76	< 10	17	9	3.967
30518	25	0.14	173	< 10	8	3	0.314
30519	24	0.18	188	< 10	9	3	0.341
30520	64	0.02	34	< 10	< 1	2	0.482
30521	31	0.10	133	13	6	2	0.472
30522	41	0.11	162	< 10	7	3	0.700
26658	100	0.03	32	< 10	1	1	0.084
26659	107	0.02	21	< 10	< 1	< 1	0.041
26660	2	< 0.01	< 1	< 10	< 1	3	0.016
26661	47	0.02	16	< 10	1	< 1	0.016
26662	16	0.12	76	< 10	2	3	0.446
26663	68	0.03	26	< 10	1	< 1	0.048
26664	69	0.01	13	< 10	< 1	< 1	0.049
26665	52	0.01	10	< 10	< 1	< 1	0.034
26666	87	0.02	15	< 10	< 1	< 1	0.043
26667	55	0.01	18	< 10	< 1	< 1	0.024

Activation Laboratories Ltd. Report: A08-3061

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.9	3.2	1160	852	15	33	976	616	0.38	367	178	<1	1440	0.83	8	6	23.5	0.03	0.14	0.06	0.040	76	1	27
GXR-1 Cert	31.0	3.3	1110	852	18	41	730	760	3.52	427	750	1	1380	0.96	8	12	23.6	0.05	0.22	0.05	0.065	122	2	54
GXR-4 Meas	3.3	0.8	644.0	142	322	40	40	57	3.0C	96	24	1	16	0.97	15	54	3.29	1.34	1.68	0.13	0.114	<10	7	<10
GXR-4 Cert	4.0	0.9	6620	156	310	42	62	73	7.2C	98	1640	2	16	1.01	15	64	3.09	4.01	1.65	0.65	0.120	5	8	6
GXR-2 Meas	19.7	5.3	88	1120	<2	19	797	593	3.97	14	985	1	<10	0.83	11	27	2.22	0.57	0.56	0.25	0.059	29	5	<10
GXR-2 Cert	17.0	4.1	76	1037	2	21	890	530	16.5C	25	2240	2	1	0.93	9	35	1.86	1.37	0.85	0.56	0.105	49	7	2
GXR-6 Meas	0.3	1.6	74	1070	<2	26	96	124	8.0C	217	873	<1	<10	0.17	16	85	5.36	0.95	0.44	0.16	0.032	<10	23	<10
GXR-6 Cert	1.3	1.0	66	1007	2	27	101	118	17.7C	330	1300	1	0	0.18	14	95	5.58	1.87	0.51	0.10	0.035	4	28	2
OREAS 13P Meas			2570				2120										5.34							
OREAS 13P Cert			2500				2261										7.58							
30245 Ong	0.2	<0.5	231	83	<2	178	<2	12	6.1C	<10	36	<1	<10	4.20	20	261	1.34	0.14	1.01	0.43	0.008	<10	2	<10
30245 Dup	0.2	<0.5	240	85	<2	173	<2	11	6.2C	<10	35	<1	<10	4.25	20	263	1.35	0.14	1.02	0.43	0.009	<10	2	<10
30255 Ong	0.4	<0.5	214	95	<2	94	4	10	6.36	<10	11	<1	<10	4.57	13	72	0.90	<0.01	0.65	0.60	0.010	<10	2	<10
30255 Dup	0.4	<0.5	223	92	<2	95	7	10	6.8C	<10	11	<1	<10	4.62	13	74	0.88	<0.01	0.68	0.61	0.010	<10	2	<10
30272 Ong	2.3	1.5	1190	168	<2	338	48	100	4.4C	<10	18	<1	<10	2.96	32	93	2.37	0.22	0.58	0.36	0.008	<10	3	<10
30272 Dup	2.2	2.0	1210	172	<2	346	48	95	4.42	<10	18	<1	<10	2.98	34	93	2.44	0.22	1.01	0.36	0.008	<10	3	<10
30488 Ong	7.2	10.0	5180	45	<2	855	350	479	6.27	<10	30	<1	14	4.25	76	56	5.56	0.05	0.24	0.53	0.012	<10	2	<10
30488 Dup	7.2	9.1	4970	43	<2	932	340	453	6.28	<10	30	<1	11	4.23	73	55	5.47	0.05	0.23	0.52	0.012	<10	2	<10
30521 Ong	0.2	1.4	343	380	<2	46	53	88	2.34	<10	11	<1	<10	1.78	30	126	4.25	0.03	0.89	0.24	0.032	<10	8	<10
30521 Dup	0.3	1.3	325	379	<2	43	53	86	2.25	<10	11	<1	<10	1.75	27	119	4.02	0.03	0.85	0.23	0.031	<10	8	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	178		76	183	23	16	0.204
GXR-1 Cert	275		80	164	32	38	0.257
GXR-4 Meas	69		84	14	12	10	1.792
GXR-4 Cert	221		87	31	14	186	1.770
GXR-2 Meas	85		53	< 10	12	10	0.038
GXR-2 Cert	180		52	2	17	289	0.031
GXR-6 Meas	31		181	< 10	6	7	0.016
GXR-6 Cert	35		186	2	14	110	0.016
OREAS 13P Meas							
OREAS 13P Cert							
30245 Orig	77	0.03	18	< 10	< 1	< 1	0.158
30245 Dup	78	0.03	18	< 10	< 1	< 1	0.156
30269 Orig	109	0.02	16	< 10	< 1	< 1	0.127
30269 Dup	109	0.02	14	< 10	< 1	< 1	0.128
30272 Orig	58	0.04	24	< 10	< 1	2	0.783
30272 Dup	60	0.05	24	< 10	< 1	2	0.809
30498 Orig	66	0.02	66	< 10	1	2	2.437
30498 Dup	65	0.02	66	< 10	1	2	2.394
30521 Orig	32	0.10	135	13	6	2	0.488
30521 Dup	30	0.10	130	13	5	2	0.455
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 10-Jun-08
Invoice No.: A08-3062
Invoice Date: 21-Jul-08
Your Reference: DOSSIER 22422

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

90 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3062**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3062

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10
26400	1.0	3.0	8900	309	< 2	> 10000	6	43	0.52	< 10	4	< 1	< 10	0.39	552	31	32.3	0.11	0.17	0.08	0.047	< 10	4	< 10
26401	0.9	1.6	1070	473	3	369	14	170	1.19	< 10	8	< 1	< 10	0.58	102	134	6.50	0.06	0.97	0.02	0.026	< 10	2	< 10
26402	< 0.2	1.1	131	239	< 2	398	< 2	34	4.50	< 10	34	< 1	< 10	1.98	46	310	3.71	0.05	3.43	0.14	0.006	< 10	5	< 10
26403	< 0.2	< 0.5	48	178	< 2	227	3	17	5.91	< 10	52	< 1	< 10	4.01	27	272	2.02	0.11	1.90	0.28	0.006	< 10	2	< 10
26404	< 0.2	0.7	16	173	< 2	228	< 2	30	5.29	< 10	44	< 1	< 10	3.33	29	193	2.62	0.11	2.69	0.21	0.003	< 10	2	< 10
26405	< 0.2	0.5	18	194	< 2	217	< 2	30	6.38	< 10	83	< 1	< 10	4.41	27	273	2.82	0.24	2.38	0.33	0.005	< 10	3	< 10
26406	< 0.2	1.1	162	313	< 2	157	< 2	49	5.37	< 10	199	< 1	< 10	2.57	26	460	5.65	0.67	2.68	0.47	0.005	< 10	5	< 10
26407	< 0.2	0.9	104	516	< 2	36	3	38	3.13	< 10	50	< 1	< 10	3.12	22	83	4.19	0.08	1.47	0.30	0.048	< 10	13	< 10
26408	< 0.2	< 0.5	32	171	< 2	57	< 2	16	5.30	< 10	12	< 1	< 10	3.55	10	219	1.46	0.52	1.38	0.57	0.009	< 10	3	< 10
26409	< 0.2	< 0.5	76	175	< 2	66	< 2	11	4.45	< 10	15	< 1	< 10	3.99	9	126	1.17	0.01	0.84	0.66	0.248	< 10	4	< 10
26410	< 0.2	< 0.5	4	11	< 2	< 1	< 2	1	0.04	< 10	9	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.02	0.005	< 10	< 1	< 10
26411	< 0.2	< 0.5	152	111	< 2	107	< 2	10	6.65	< 10	17	< 1	< 10	4.63	15	84	1.06	0.02	0.74	0.73	0.010	< 10	3	< 10
26412	< 0.2	< 0.5	85	131	< 2	52	4	10	6.75	< 10	17	< 1	< 10	4.86	9	138	1.04	0.03	0.99	0.59	0.006	< 10	4	< 10
26413	< 0.2	< 0.5	163	161	< 2	71	3	13	5.21	< 10	14	< 1	< 10	3.73	13	132	1.26	0.03	1.28	0.51	0.003	< 10	3	< 10
26414	< 0.2	1.2	212	721	< 2	41	2	44	3.42	< 10	35	< 1	< 10	2.77	33	100	5.07	0.08	1.96	0.26	0.047	< 10	14	< 10
26415	< 0.2	1.3	138	826	< 2	47	< 2	45	3.84	< 10	26	< 1	< 10	2.60	36	96	7.18	0.06	2.43	0.19	0.048	< 10	13	< 10
26416	< 0.2	1.2	85	701	< 2	67	< 2	42	3.85	< 10	11	< 1	< 10	4.31	39	145	6.91	0.52	2.60	0.05	0.040	< 10	13	< 10
26417	< 0.2	1.7	326	954	< 2	53	< 2	54	3.66	< 10	14	< 1	< 10	2.92	39	108	8.27	0.02	3.27	0.08	0.047	< 10	16	< 10
26418	< 0.2	1.1	352	808	< 2	43	< 2	38	3.34	< 10	9	< 1	< 10	4.15	40	93	5.67	0.02	2.48	0.04	0.044	< 10	11	< 10
26419	< 0.2	1.3	221	721	< 2	48	< 2	41	3.67	< 10	10	< 1	< 10	3.41	35	90	6.88	0.02	2.98	0.05	0.045	< 10	13	< 10
26420	0.7	0.8	1960	334	< 2	1660	< 2	25	6.40	< 10	23	< 1	< 10	3.12	61	150	3.68	0.04	3.53	0.36	0.003	< 10	3	< 10
26421	< 0.2	1.4	169	701	< 2	77	< 2	41	4.06	< 10	7	< 1	< 10	2.69	50	143	6.85	0.03	3.60	0.04	0.047	< 10	13	< 10
26422	< 0.2	1.0	18	555	< 2	143	< 2	41	3.69	< 10	8	< 1	< 10	2.28	30	349	5.21	0.02	3.34	0.06	0.059	< 10	8	< 10
26423	< 0.2	1.1	4	534	< 2	171	< 2	42	3.18	< 10	7	< 1	< 10	2.59	12	366	4.96	0.01	3.23	0.04	0.091	< 10	6	< 10
26424	< 0.2	0.5	10	365	< 2	161	< 2	24	2.27	< 10	8	< 1	< 10	1.97	13	271	2.87	0.01	2.32	0.06	0.086	< 10	4	< 10
26425	< 0.2	0.6	14	372	< 2	166	< 2	26	2.26	< 10	7	< 1	< 10	1.81	19	296	3.06	0.01	2.37	0.06	0.079	< 10	4	< 10
26426	< 0.2	0.8	21	380	< 2	154	< 2	23	2.23	< 10	8	< 1	< 10	1.78	24	293	2.79	0.01	2.32	0.06	0.070	< 10	3	< 10
26427	< 0.2	0.8	34	502	< 2	148	< 2	34	3.43	< 10	15	< 1	< 10	1.99	17	359	3.89	0.07	3.03	0.14	0.099	< 10	6	< 10
26428	< 0.2	0.7	244	444	< 2	175	< 2	31	3.22	< 10	19	< 1	< 10	2.00	32	388	3.48	0.07	2.73	0.13	0.008	< 10	5	< 10
26429	< 0.2	0.7	172	442	< 2	199	< 2	29	5.01	< 10	36	< 1	< 10	3.89	16	576	3.50	0.09	2.41	0.28	0.004	< 10	5	< 10
26430	< 0.2	< 0.5	4	11	< 2	< 1	< 2	2	0.04	< 10	11	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10
26431	< 0.2	0.8	82	448	< 2	196	2	29	5.25	< 10	27	< 1	< 10	3.32	16	511	3.42	0.07	2.38	0.41	0.005	< 10	5	< 10
26432	< 0.2	0.5	70	358	< 2	114	3	23	5.65	< 10	28	< 1	< 10	4.25	15	433	2.65	0.09	1.78	0.51	0.011	< 10	4	< 10
26433	0.3	0.8	222	296	< 2	64	5	46	3.95	< 10	57	< 1	< 10	1.86	14	282	2.78	0.17	2.69	0.16	0.008	< 10	5	< 10
26434	0.3	0.7	158	290	< 2	168	10	29	4.97	< 10	23	< 1	< 10	3.74	27	127	2.34	0.08	1.91	0.21	0.018	< 10	3	< 10
26435	0.3	0.8	166	296	< 2	165	8	30	4.62	< 10	21	< 1	< 10	3.41	25	177	2.17	0.08	1.90	0.16	0.035	< 10	4	< 10
26436	0.5	1.5	264	489	< 2	196	11	58	3.62	< 10	21	< 1	< 10	2.91	33	166	3.27	0.07	2.78	0.09	0.015	< 10	6	< 10
26437	0.6	1.4	309	509	< 2	209	14	57	3.98	< 10	25	< 1	< 10	2.29	33	177	3.93	0.03	3.42	0.07	0.011	< 10	7	< 10
26438	0.4	2.1	123	822	< 2	249	6	100	4.77	< 10	16	< 1	< 10	1.96	39	316	6.13	0.06	5.62	0.04	0.013	< 10	14	< 10
26439	0.4	1.1	136	771	< 2	233	4	83	5.25	< 10	8	< 1	< 10	2.58	32	345	5.77	0.02	5.24	0.04	0.012	< 10	11	< 10
26440	0.6	0.7	1790	335	< 2	1710	< 2	25	6.47	< 10	22	< 1	< 10	3.11	51	150	3.70	0.04	3.67	0.35	0.003	< 10	3	< 10
26441	0.6	1.2	232	553	< 2	114	4	40	2.98	< 10	12	< 1	< 10	4.42	19	261	4.26	0.03	3.67	0.06	0.013	< 10	11	< 10
26442	4.0	0.7	2080	371	< 2	24	24	29	2.20	< 10	43	< 1	< 10	0.38	9	133	3.06	0.04	2.00	0.07	0.012	< 10	6	< 10
26443	5.8	2.3	1530	427	4	66	37	115	2.90	< 10	9	< 1	< 10	0.98	19	132	3.90	0.01	2.60	0.04	0.013	< 10	5	< 10
26444	0.4	1.1	313	522	< 2	350	6	47	3.71	< 10	16	< 1	< 10	1.72	44	367	4.40	0.04	4.30	0.09	0.095	< 10	4	< 10
26445	< 0.2	0.5	93	457	< 2	79	2	26	2.60	< 10	11	< 1	< 10	2.30	25	168	3.17	0.03	2.07	0.12	0.013	< 10	9	< 10
26446	< 0.2	0.6	139	495	< 2	76	7	27	2.76	< 10	17	< 1	< 10	2.53	26	134	3.04	0.06	1.98	0.17	0.014	< 10	12	< 10
26447	< 0.2	0.7	90	438	< 2	80	4	25	3.20	< 10	12	< 1	< 10	2.88	19	170	2.87	0.04	2.03	0.18	0.013	< 10	10	< 10
26448	< 0.2	0.6	97	415	< 2	64	7	26	3.38	< 10	16	< 1	< 10	2.79	19	163	2.74	0.05	1.91	0.23	0.013	< 10	11	< 10
26449	0.2	0.7	81	543	< 2	67	8	40	3.17	< 10	11	< 1	< 10	2.97	24	162	3.53	0.03	2.15	0.11	0.014	< 10	11	< 10
26450	0.7	0.7	1680	343	< 2	1750	5	27	6.46	< 10	24	< 1	< 10	3.20	83	154	3.87	0.04	3.67	0.35	0.003	< 10	3	< 10
26451	1.9	2.2	826	448	< 2	376	90	127	3.33	< 10	16	< 1	< 10	2.58	42	162	3.93	0.06	2.25	0.22	0.013	< 10	8	< 10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26452	9.1	7.5	59<0	442	<2	1540	95	258	3.54	<10	18	<1	<10	1.85	138	200	8.44	0.11	3.24	0.13	0.012	<10	3	<10
26453	7.6	6.5	3730	455	<2	1100	165	224	3.80	<10	21	<1	<10	2.36	99	226	6.15	0.08	2.51	0.14	0.012	<10	3	<10
26454	8.7	6.2	4290	349	<2	1280	173	179	4.23	<10	20	<1	<10	2.88	118	218	5.70	0.05	1.84	0.38	0.010	<10	5	<10
26455	3.9	4.3	2410	420	<2	1150	111	150	3.18	<10	19	<1	<10	2.17	53	240	5.52	0.08	1.85	0.22	0.006	<10	6	<10
26456	5.7	5.4	3530	455	<2	1660	118	177	2.77	<10	8	<1	<10	2.10	271	241	9.31	0.04	2.00	0.15	0.009	<10	7	<10
26457	3.8	5.7	2260	251	<2	798	109	182	2.20	<10	24	<1	<10	1.79	75	176	4.30	0.04	1.78	0.12	0.011	<10	5	<10
26458	5.7	10.1	4290	399	<2	1530	73	335	2.65	<10	7	<1	<10	1.19	133	730	9.52	0.02	3.21	0.10	0.007	<10	5	<10
26459	4.9	14.3	3910	353	<2	1310	106	503	3.06	<10	6	<1	<10	1.03	139	346	9.83	<0.01	3.51	0.08	0.008	<10	3	<10
26460	<0.2	<0.5	7	12	<2	2	8	2	0.04	<10	11	<1	<10	0.05	<1	5	0.06	0.01	0.03	0.02	0.005	<10	<1	<10
26461	3.8	6.6	2790	356	<2	2090	88	259	3.27	<10	7	<1	<10	1.26	167	296	13.1	0.07	3.13	0.06	0.008	<10	3	<10
26462	5.8	10.7	4890	310	<2	1110	140	339	3.48	<10	20	<1	<10	2.02	51	191	8.05	0.08	2.33	0.10	0.007	<10	3	<10
26463	7.8	7.2	65<0	353	<2	1250	121	221	2.62	<10	9	<1	<10	2.03	135	162	8.09	0.09	1.82	0.13	0.005	<10	5	<10
26464	10.7	14.9	5230	350	<2	1820	319	344	3.28	<10	10	<1	12	1.82	94	68	9.14	0.05	1.66	0.17	0.009	<10	6	<10
26465	13.5	13.9	474<0	428	<2	577	586	305	3.78	<10	14	<1	21	2.60	50	79	4.88	0.04	2.00	0.17	0.010	<10	8	<10
26466	17.1	18.1	7460	480	<2	1060	987	383	2.51	<10	11	<1	36	1.50	119	55	7.26	0.03	2.03	0.09	0.008	<10	7	<10
26467	10.8	15.7	4280	415	<2	1160	724	312	2.89	<10	11	<1	27	1.79	122	83	7.44	0.03	1.52	0.11	0.009	<10	8	<10
26468	20.9	13.0	49<0	398	<2	851	1630	342	2.46	<10	7	<1	70	1.43	110	67	6.16	0.02	1.64	0.08	0.012	<10	6	<10
26469	11.4	21.8	>10000	145	<2	6860	168	675	1.32	<10	7	<1	<10	0.31	347	64	30.7	0.07	0.70	0.07	0.011	<10	2	14
26470	0.6	<0.5	1700	304	<2	1680	3	28	5.78	<10	19	<1	<10	2.83	55	140	3.36	0.03	3.15	0.32	0.003	<10	3	<10
26471	16.3	10.8	>10000	220	<2	4590	165	454	2.65	<10	9	<1	<10	0.79	151	68	24.1	0.17	1.33	0.24	0.020	<10	4	10
26472	8.3	15.1	5980	442	<2	368	218	953	4.07	<10	28	<1	<10	1.08	53	65	9.42	0.11	2.17	0.25	0.049	<10	6	13
26473	15.3	25.7	>10000	269	<2	490	300	1240	3.46	<10	18	<1	<10	1.13	40	66	6.64	0.09	1.42	0.27	0.044	<10	4	14
26474	36.1	126	>10000	135	<2	3570	333	4350	2.44	<10	4	<1	10	1.10	241	44	23.4	0.04	0.53	0.30	0.034	<10	2	30
26475	28.1	62.9	>10000	467	<2	1140	840	2300	2.47	<10	6	<1	34	1.14	288	81	12.4	0.09	1.15	0.11	0.030	<10	6	30
26476	20.3	31.3	>10000	478	<2	1420	350	1330	2.53	<10	7	<1	<10	1.12	92	105	12.3	0.11	1.37	0.13	0.030	<10	7	31
26477	6.0	33.7	382<0	147	<2	9150	129	1280	1.02	<10	7	<1	<10	0.26	231	27	40.0	0.10	0.49	0.06	0.013	10	2	25
26478	16.8	23.8	>10000	487	<2	2750	291	1170	3.02	<10	8	<1	<10	0.78	127	87	18.8	0.21	1.79	0.14	0.027	<10	5	25
26479	14.3	15.7	>10000	501	<2	1290	211	858	2.27	<10	6	<1	<10	0.81	483	53	14.5	0.07	1.27	0.07	0.064	<10	5	25
26480	<0.2	<0.5	10	12	<2	<1	<2	2	0.03	<10	8	<1	<10	0.04	<1	<2	0.05	<0.01	0.02	0.01	0.004	<10	<1	<10
26481	10.7	2.3	3190	538	<2	121	214	119	2.82	<10	46	<1	22	1.16	24	102	5.47	0.24	1.77	0.17	0.077	<10	6	44
26482	10.0	5.4	4400	530	<2	193	90	212	3.84	<10	62	<1	<10	1.83	32	186	6.64	0.52	2.97	0.04	0.063	<10	16	27
26483	2.8	1.5	1200	443	5	35	19	92	2.85	<10	133	<1	<10	0.58	13	80	3.38	0.54	2.09	0.06	0.039	<10	6	<10
26484	0.4	3.4	273	535	<2	22	4	284	3.05	<10	26	<1	<10	0.82	24	71	6.80	0.64	2.03	0.06	0.051	<10	6	<10
26485	0.5	2.0	34.7	528	<2	18	9	207	2.01	<10	20	<1	<10	0.97	18	59	7.68	0.18	1.76	0.04	0.038	<10	3	<10
26486	<0.2	<0.5	91	429	<2	139	9	80	3.03	<10	37	<1	<10	2.33	31	188	3.40	0.20	2.32	0.04	0.018	<10	7	<10
26487	0.3	0.5	216	329	<2	147	11	54	2.94	<10	23	<1	<10	2.24	29	183	2.90	0.18	2.34	0.03	0.010	<10	3	<10
26488	<0.2	<0.5	75	592	<2	148	5	81	3.53	<10	28	<1	<10	2.41	31	159	4.29	0.18	3.18	0.03	0.016	<10	8	<10
26489	0.7	2.3	367	597	2	25	22	173	3.90	<10	98	<1	<10	0.96	19	107	4.80	0.64	3.09	0.07	0.072	<10	10	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26400	15	0.10	61	< 10	16	19	6.673
26401	2	0.05	13	< 10	10	11	2.827
26402	29	0.05	34	< 10	1	1	0.218
26403	54	0.04	29	< 10	< 1	< 1	0.082
26404	53	0.05	22	< 10	< 1	< 1	0.040
26405	73	0.05	34	< 10	< 1	< 1	0.049
26406	76	0.08	61	< 10	3	2	0.250
26407	44	0.15	127	< 10	10	3	0.167
26408	70	0.04	22	< 10	1	< 1	0.029
26409	71	0.06	30	< 10	7	2	0.103
26410	2	< 0.01	< 1	< 10	1	4	0.018
26411	105	0.02	14	< 10	< 1	< 1	0.167
26412	106	0.02	17	< 10	< 1	< 1	0.055
26413	98	0.02	16	< 10	< 1	< 1	0.054
26414	63	0.21	159	< 10	11	3	0.255
26415	59	0.20	177	< 10	11	3	0.227
26416	57	0.31	178	< 10	11	4	0.312
26417	53	0.27	233	< 10	13	4	0.390
26418	63	0.30	179	< 10	13	4	0.357
26419	48	0.28	198	< 10	13	4	0.272
26420	66	0.02	35	< 10	< 1	1	0.478
26421	43	0.31	200	< 10	12	4	0.397
26422	49	0.17	97	< 10	6	6	0.164
26423	27	0.15	72	< 10	7	10	0.091
26424	16	0.15	51	< 10	6	6	0.087
26425	16	0.15	52	< 10	5	6	0.142
26426	12	0.14	50	< 10	4	8	0.198
26427	29	0.10	60	< 10	2	2	0.097
26428	27	0.11	54	< 10	3	2	0.180
26429	38	0.10	67	< 10	3	2	0.082
26430	2	< 0.01	< 1	< 10	1	4	0.017
26431	70	0.09	61	< 10	2	2	0.064
26432	78	0.08	53	< 10	2	1	0.071
26433	40	0.08	31	< 10	6	2	0.091
26434	63	0.05	29	< 10	3	1	0.166
26435	42	0.05	34	< 10	3	2	0.096
26436	25	0.05	39	< 10	4	3	0.124
26437	21	0.05	38	< 10	7	2	0.124
26438	19	0.04	76	< 10	6	2	0.037
26439	15	0.05	69	< 10	11	2	0.075
26440	67	0.02	35	< 10	< 1	1	0.483
26441	7	0.08	46	< 10	10	4	0.077
26442	6	0.13	20	< 10	22	4	0.275
26443	6	0.08	16	< 10	16	3	0.286
26444	6	0.04	34	< 10	2	2	0.134
26445	13	0.08	61	< 10	4	2	0.167
26446	16	0.06	74	< 10	4	2	0.198
26447	19	0.05	67	< 10	4	1	0.049
26448	31	0.05	67	< 10	3	1	0.084
26449	5	0.08	93	< 10	5	2	0.069
26450	69	0.02	36	< 10	< 1	1	0.492
26451	21	0.05	61	< 10	3	2	0.505

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26452	13	0.05	36	< 10	2	3	2.687
26453	24	0.06	34	< 10	1	2	1.966
26454	47	0.05	35	< 10	1	2	2.031
26455	21	0.04	37	< 10	1	3	2.273
26456	9	0.05	47	< 10	2	4	4.154
26457	9	0.04	35	< 10	2	2	1.494
26458	4	0.06	44	< 10	1	4	3.320
26459	2	0.05	40	< 10	1	4	3.832
26460	2	< 0.01	< 1	< 10	1	5	0.022
26461	6	0.04	33	< 10	1	4	5.283
26462	17	0.04	29	< 10	1	2	2.201
26463	18	0.05	34	< 10	2	3	3.369
26464	31	0.05	39	< 10	1	4	3.636
26465	42	0.05	44	< 10	2	2	1.393
26466	21	0.05	50	< 10	2	3	2.674
26467	25	0.05	64	< 10	2	3	2.743
26468	23	0.03	46	< 10	2	2	2.545
26469	9	0.03	64	< 10	1	7	4.909
26470	63	0.01	32	< 10	< 1	1	0.502
26471	23	0.05	69	< 10	3	7	7.232
26472	35	0.06	131	< 10	8	2	1.490
26473	33	0.05	120	< 10	5	3	2.565
26474	29	0.05	106	17	3	7	7.134
26475	23	0.08	108	< 10	4	4	4.842
26476	18	0.10	109	< 10	4	5	4.371
26477	5	0.04	73	33	2	11	6.296
26478	18	0.08	90	13	8	6	6.228
26479	14	0.06	117	< 10	9	5	6.152
26480	1	< 0.01	< 1	< 10	< 1	4	0.019
26481	17	0.15	118	< 10	12	3	0.584
26482	10	0.22	167	< 10	14	3	0.742
26483	9	0.15	35	< 10	10	5	0.181
26484	19	0.15	50	< 10	9	8	1.416
26485	8	0.08	29	< 10	11	9	1.509
26486	12	0.14	87	< 10	3	2	0.175
26487	10	0.13	59	< 10	1	< 1	0.125
26488	9	0.17	94	< 10	4	1	0.103
26489	18	0.21	75	< 10	11	4	0.090

Activation Laboratories Ltd. Report: A08-3062

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	27.4	3.7	1220	806	15	34	882	619	0.35	366	350	<1	1910	0.79	8	6	25.1	0.02	0.14	0.08	0.041	82	1	32
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-1 Meas	25.3	3.0	1160	857	15	35	583	612	0.33	354	168	<1	1430	0.80	8	7	23.6	0.02	0.13	0.05	0.034	84	1	26
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.4	1.0	6440	145	335	42	43	67	2.92	100	37	2	12	1.00	16	57	3.56	1.47	1.79	0.13	0.122	<10	7	<10
GXR-4 Cert	4.20	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.66	0.964	0.120	4.80	7.70	5.60
GXR-4 Meas	3.3	< 0.5	6300	136	323	38	42	66	2.74	95	23	1	17	0.93	16	56	3.25	1.32	1.63	0.12	0.114	<10	7	<10
GXR-4 Cert	4.20	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.66	0.964	0.120	4.80	7.70	5.60
GXR-2 Meas	18.9	5.0	81	1090	<2	17	771	557	3.57	15	1110	1	<10	0.82	10	25	2.20	0.96	0.56	0.25	0.057	34	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	36.0	1.86	1.37	3.850	0.556	0.105	49.0	6.88	1.70
GXR-2 Meas	17.8	4.3	79	1010	<2	16	736	520	3.28	12	1170	1	<10	0.80	10	23	1.96	0.49	0.50	0.21	0.052	32	4	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	36.0	1.86	1.37	3.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	1.4	70	1050	<2	25	93	117	7.45	209	925	<1	<10	0.18	15	83	6.35	0.93	0.43	0.17	0.031	<10	23	<10
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	3.605	0.104	0.0360	3.80	27.8	1.70
GXR-6 Meas	0.3	0.6	66	1010	<2	24	92	114	6.80	231	754	<1	<10	0.15	15	81	5.78	0.90	0.38	0.10	0.030	<10	22	<10
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	3.605	0.104	0.0360	3.80	27.8	1.70
OREAS 13P Meas							2910																	
OREAS 13P Cert							2900																	
OREAS 13P Meas							2780																	
OREAS 13P Cert							2500																	
26412 Orig	< 0.2	< 0.5	85	132	< 2	53	3	10	6.72	< 10	17	< 1	< 10	4.87	9	139	1.04	0.03	0.96	0.59	0.006	< 10	4	< 10
26412 Dup	< 0.2	< 0.5	84	131	< 2	51	4	10	6.79	< 10	17	< 1	< 10	4.85	9	138	1.04	0.03	0.96	0.60	0.006	< 10	4	< 10
26425 Orig	< 0.2	0.8	22	359	< 2	164	< 2	23	2.25	< 10	7	< 1	< 10	1.75	25	293	2.78	0.01	2.34	0.06	0.070	< 10	3	< 10
26425 Dup	< 0.2	0.7	19	362	< 2	154	< 2	23	2.21	< 10	8	< 1	< 10	1.77	24	293	2.79	0.01	2.30	0.06	0.070	< 10	3	< 10
26435 Orig	0.5	1.1	133	778	< 2	235	3	51	5.12	< 10	8	< 1	< 10	2.61	33	347	5.82	0.02	5.28	0.04	0.012	< 10	11	< 10
26435 Dup	0.3	1.2	140	765	< 2	230	4	54	5.35	< 10	7	< 1	< 10	2.54	32	342	5.71	0.02	5.19	0.04	0.012	< 10	11	< 10
26463 Orig	7.7	6.6	3730	497	< 2	1100	166	226	3.83	< 10	22	< 1	< 10	2.36	99	229	6.20	0.08	2.63	0.14	0.012	< 10	3	< 10
26463 Dup	7.5	6.4	3730	450	< 2	1100	164	222	3.76	< 10	21	< 1	< 10	2.36	99	223	6.10	0.08	2.45	0.14	0.012	< 10	3	< 10
26475 Orig	20.6	31.8	> 10000	484	< 2	1420	355	1350	2.53	< 10	7	< 1	< 10	1.14	92	105	12.4	0.11	1.38	0.13	0.030	< 10	7	31
26475 Dup	19.9	30.7	> 10000	473	< 2	1420	346	1310	2.64	< 10	7	< 1	< 10	1.10	92	104	12.2	0.11	1.36	0.13	0.029	< 10	7	31
26480 Orig	< 0.2	< 0.5	14	14	< 2	< 1	< 2	3	0.04	< 10	8	< 1	< 10	0.05	< 1	2	0.06	0.01	0.02	0.01	0.004	< 10	< 1	< 10
26480 Dup	< 0.2	< 0.5	7	9	< 2	< 1	< 2	2	0.03	< 10	7	< 1	< 10	0.04	< 1	2	0.05	< 0.01	0.02	0.01	0.004	< 10	< 1	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.001	< 10	< 1	< 10	
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	< 1	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	194		80	147	25	16	0.213
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-1 Meas	144		76	164	23	14	0.190
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	77		86	15	12	11	1.881
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-4 Meas	68		81	13	11	10	1.808
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	90		51	< 10	11	12	0.037
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-2 Meas	85		45	< 10	10	12	0.034
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	34		175	< 10	6	8	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
GXR-6 Meas	28		170	< 10	6	13	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
OREAS 13P Meas							
OREAS 13P Cert							
26412 Orig	106	0.02	17	< 10	< 1	< 1	0.054
26412 Dup	106	0.02	17	< 10	< 1	< 1	0.055
26425 Orig	12	0.14	50	< 10	4	9	0.206
26425 Dup	12	0.14	51	< 10	4	8	0.190
26435 Orig	16	0.05	70	< 10	11	2	0.075
26439 Dup	15	0.06	69	< 10	11	2	0.076
26463 Orig	25	0.05	36	< 10	1	2	1.968
26463 Dup	24	0.05	34	< 10	1	2	1.973
26475 Orig	18	0.10	110	< 10	4	5	4.407
26475 Dup	18	0.10	108	< 10	4	5	4.336
26480 Orig	2	< 0.01	< 1	< 10	< 1	4	0.021
26480 Dup	1	< 0.01	< 1	< 10	< 1	4	0.018
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 10-Jun-08
Invoice No.: A08-3077-Repeat
Invoice Date: 05-Sep-08
Your Reference: DOSSIER 22423

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

81 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3077-Repeat**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3077-Repeat

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
27001	0.8	5.8	505	289	<2	47	5	359	3.56	11	133	<1	<10	0.53	12	84	3.45	0.85	1.94	0.12	0.009	<10	5	<10
27002	2.6	3.2	1480	295	<2	64	12	204	5.27	<10	67	<1	<10	1.61	24	75	5.56	1.03	2.45	0.19	0.017	<10	6	<10
27003	7.8	5.3	3080	338	3	62	9	243	4.65	57	45	<1	<10	1.20	25	78	5.36	0.80	2.17	0.20	0.018	<10	5	<10
27004	9.3	6.3	3070	370	2	41	7	311	4.33	<10	89	<1	<10	0.69	20	92	5.56	0.88	2.44	0.14	0.015	<10	9	<10
27005	1.0	0.9	439	517	3	16	6	198	3.88	<10	198	<1	<10	0.57	13	85	4.52	0.65	2.18	0.14	0.021	<10	8	<10
27006	1.3	1.5	865	714	<2	25	9	253	4.22	<10	99	<1	<10	1.03	20	58	5.13	0.47	2.55	0.14	0.012	<10	8	<10
27007	11.0	8.2	3390	292	<2	203	56	272	3.71	<10	71	<1	<10	1.20	27	65	4.26	0.44	1.70	0.23	0.016	<10	3	<10
27008	11.2	6.8	3030	222	<2	36	77	202	3.95	<10	107	1	<10	1.31	5	58	2.70	0.38	1.73	0.26	0.059	<10	1	<10
27009	10.4	5.8	2740	222	<2	175	108	159	4.99	<10	64	<1	<10	2.82	24	65	4.69	0.44	1.49	0.27	0.036	<10	4	<10
27010	0.3	<0.5	126	29	<2	5	4	11	0.26	<10	10	<1	<10	0.13	2	5	0.22	0.02	0.07	0.02	0.005	<10	<1	<10
27011	13.7	5.8	3350	195	<2	149	43	142	3.52	<10	72	<1	<10	1.32	24	74	4.19	0.27	1.35	0.23	0.033	<10	3	<10
27012	1.1	0.5	466	134	<2	122	20	22	5.21	<10	15	<1	<10	3.85	18	62	1.31	0.03	0.60	0.43	0.10	<10	3	<10
27013	1.2	1.4	738	208	<2	566	27	27	4.70	<10	18	<1	<10	3.30	53	114	3.43	0.03	1.17	0.39	0.008	<10	4	<10
27014	0.9	0.8	498	130	<2	297	17	15	4.55	<10	13	<1	<10	3.75	38	89	1.91	0.02	0.64	0.43	0.013	<10	3	<10
27015	1.9	1.3	1430	199	<2	943	24	26	4.63	<10	12	<1	<10	3.28	76	130	4.20	0.02	1.06	0.37	0.007	<10	3	<10
27016	3.0	1.5	2110	173	<2	663	24	27	4.61	<10	11	<1	<10	2.99	76	140	3.93	0.01	0.52	0.37	0.006	<10	3	<10
27017	0.7	0.5	436	160	<2	240	22	19	5.97	<10	17	<1	<10	4.22	31	108	1.87	0.02	0.88	0.52	0.008	<10	3	<10
27055	0.5	<0.5	212	135	<2	74	19	14	5.02	<10	15	<1	<10	3.63	13	70	1.02	0.02	0.69	0.61	0.011	<10	3	<10
27058	0.5	<0.5	221	138	<2	84	17	13	5.57	<10	15	<1	<10	4.00	11	78	0.92	0.02	0.85	0.59	0.015	<10	3	<10
27067	0.5	0.5	253	165	<2	95	13	17	5.45	<10	14	<1	<10	3.83	18	75	1.45	0.02	1.05	0.50	0.010	<10	2	<10
27018	0.2	<0.5	109	130	<2	48	16	11	5.05	<10	15	<1	<10	3.67	8	87	0.99	0.02	0.66	0.52	0.013	<10	3	<10
27019	4.8	1.9	2830	145	<2	1030	24	28	5.11	<10	12	<1	<10	3.52	100	131	4.40	0.02	0.85	0.44	0.008	<10	3	<10
27020	0.7	0.6	1600	298	<2	1610	<2	28	5.55	<10	17	<1	<10	2.82	50	134	3.40	0.03	3.13	0.31	0.003	<10	3	<10
27021	0.9	0.9	598	133	<2	379	29	16	5.93	<10	11	<1	<10	4.10	38	104	2.10	0.01	0.85	0.39	0.005	<10	3	<10
27022	1.1	1.1	705	99	<2	1320	26	14	5.58	<10	12	<1	<10	3.98	75	130	4.54	0.02	0.67	0.36	0.007	<10	3	<10
27023	1.6	1.5	894	129	<2	1020	33	26	5.81	<10	18	<1	<10	3.80	74	159	4.27	0.04	0.97	0.48	0.012	<10	3	<10
27024	0.5	<0.5	190	105	<2	88	47	12	5.30	<10	10	<1	<10	4.08	8	77	0.82	0.01	0.85	0.47	0.009	<10	2	<10
27025	6.0	1.3	3890	154	<2	2360	48	23	4.31	<10	10	<1	<10	2.87	125	105	7.28	0.02	1.08	0.35	0.008	<10	2	<10
27025	8.8	1.5	5400	73	<2	>10000	19	7	1.33	<10	10	<1	<10	0.69	755	123	31.6	0.08	0.81	0.06	0.007	13	2	<10
27027	16.7	1.9	>10000	235	<2	1910	58	36	4.67	<10	11	<1	<10	2.64	54	190	7.67	0.03	1.63	0.34	0.016	<10	3	<10
27028	17.1	1.9	>10000	386	<2	1000	30	40	3.91	<10	7	<1	<10	2.81	290	290	9.46	0.03	2.72	0.12	0.011	<10	5	<10
27029	4.1	2.4	1860	242	<2	509	101	48	4.53	<10	10	<1	<10	2.88	41	138	3.32	0.04	1.75	0.36	0.013	<10	3	<10
27030	<0.2	<0.5	23	11	<2	5	<2	1	0.04	<10	8	<1	<10	0.05	<1	3	0.07	0.01	0.02	0.01	0.004	<10	<1	<10
27031	7.5	6.6	3650	324	<2	1570	97	94	3.83	<10	74	<1	<10	1.81	116	215	7.18	0.08	2.52	0.11	0.007	<10	3	<10
27032	7.4	5.3	2960	179	<2	952	125	42	3.93	<10	9	<1	<10	3.02	56	217	4.03	0.02	1.01	0.23	0.008	<10	4	<10
27033	5.9	3.0	1300	193	<2	431	200	28	3.65	<10	9	<1	<10	2.89	50	122	2.36	0.03	1.03	0.20	0.009	<10	4	<10
27034	16.0	7.7	4120	219	<2	676	185	54	3.64	<10	8	<1	<10	2.67	134	104	4.03	0.02	1.08	0.20	0.008	<10	4	<10
27035	4.7	2.8	1200	157	<2	370	163	26	4.92	<10	9	<1	<10	3.72	30	84	1.94	0.02	0.75	0.38	0.010	<10	3	<10
27036	1.1	0.6	212	140	<2	33	124	12	4.68	<10	11	<1	<10	3.66	7	70	0.83	0.01	0.68	0.44	0.009	<10	3	<10
27037	3.1	1.8	895	148	<2	147	113	28	4.83	<10	13	<1	<10	3.89	20	73	1.37	0.01	0.64	0.37	0.010	<10	4	<10
27038	37.0	36.4	>10000	142	<2	1340	135	399	2.85	<10	19	<1	<10	1.35	55	123	5.93	0.21	1.74	0.29	0.018	<10	4	<10
27039	5.3	5.0	1320	83	<2	245	154	79	2.28	<10	85	<1	<10	1.23	35	150	2.67	0.20	0.79	0.27	0.006	<10	2	<10
27040	0.5	<0.5	1620	284	<2	1620	<2	26	5.30	<10	17	<1	<10	2.69	55	137	3.18	0.03	3.10	0.31	0.003	<10	3	<10
27041	6.7	7.4	1600	86	<2	355	180	111	1.52	<10	34	<1	<10	0.82	54	152	2.89	0.09	0.51	0.16	0.010	<10	2	<10
27042	15.0	17.0	3510	75	<2	1400	77	174	0.93	<10	18	<1	11	0.33	110	147	8.57	0.15	0.85	0.11	0.015	<10	3	<10
27043	2.2	1.9	505	117	<2	65	8	46	0.72	<10	81	<1	<10	0.56	17	75	3.46	0.14	0.62	0.09	0.097	<10	4	<10
27044	0.5	0.7	106	95	<2	42	12	35	0.85	<10	102	<1	<10	0.36	15	74	4.38	0.23	0.81	0.06	0.107	<10	4	<10
27045	<0.2	<0.5	28	202	<2	32	5	50	2.01	<10	184	<1	<10	0.81	16	70	4.51	0.67	1.58	0.13	0.086	<10	8	<10
27045	0.4	0.8	284	419	<2	35	44	102	3.17	<10	171	<1	<10	1.05	18	86	5.45	0.57	2.37	0.22	0.091	<10	14	<10
27047	15.8	23.2	>10000	296	<2	6290	157	800	1.49	<10	9	<1	<10	0.43	354	106	29.8	0.10	0.78	0.07	0.015	11	2	11
27058	0.3	<0.5	127	431	<2	95	10	81	2.22	<10	86	<1	<10	0.83	10	58	2.74	0.36	2.63	0.06	0.007	<10	2	<10
27056	<0.2	0.5	106	504	2	73	6	78	2.40	<10	107	<1	<10	0.87	7	94	2.33	0.42	1.71	0.06	0.005	<10	2	<10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	>10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
27060	< 0.2	< 0.5	7	11	< 2	3	< 2	2	0.04	< 10	3	< 1	< 10	0.03	< 1	2	0.06	< 0.01	0.02	0.01	0.003	< 10	< 1	< 10
27061	< 0.2	< 0.5	14	476	< 2	9	2	70	2.23	< 10	75	< 1	< 10	0.51	3	86	2.19	0.50	1.90	0.03	0.005	< 10	2	< 10
27062	< 0.2	< 0.5	13	485	< 2	9	3	80	2.97	< 10	95	< 1	< 10	0.38	2	82	2.25	0.85	2.63	0.06	0.004	< 10	3	< 10
27063	< 0.2	< 0.5	11	323	3	14	3	64	2.64	< 10	104	< 1	< 10	0.14	2	72	2.09	0.53	1.80	0.04	0.004	< 10	2	< 10
27064	1.5	1.5	1520	365	3	25	2	194	2.14	< 10	60	< 1	< 10	0.28	21	164	4.01	0.35	1.29	0.03	0.036	< 10	3	< 10
26450	0.6	< 0.5	1400	275	< 2	1540	3	26	5.07	< 10	18	< 1	< 10	2.59	53	132	3.11	0.03	2.95	0.30	0.003	< 10	3	< 10
26491	< 0.2	< 0.5	47	446	< 2	11	< 2	70	3.62	< 10	175	< 1	< 10	0.54	16	67	5.17	0.80	3.18	0.08	0.074	< 10	12	< 10
26492	< 0.2	0.5	14	476	< 2	18	3	52	3.45	< 10	165	< 1	< 10	0.63	15	84	4.38	0.62	2.85	0.06	0.077	< 10	10	< 10
26522	3.4	3.8	1970	162	< 2	497	129	51	4.02	< 10	16	< 1	< 10	2.73	52	95	2.66	0.04	1.04	0.40	0.010	< 10	3	< 10
27048	16.2	11.0	5320	361	< 2	2690	427	1220	2.68	< 10	13	< 1	23	1.03	403	131	16.4	0.26	1.68	0.12	0.013	< 10	3	< 10
27049	9.8	9.3	4320	487	< 2	649	216	425	3.75	11	33	< 1	< 10	2.55	85	123	9.29	0.54	2.25	0.23	0.058	< 10	12	< 10
27050	0.9	1.8	8400	304	2	> 10000	6	43	0.55	< 10	8	< 1	< 10	0.41	658	34	34.4	0.12	0.15	0.09	0.050	< 10	4	< 10
27051	2.0	1.2	1250	453	< 2	150	15	178	3.36	< 10	94	< 1	< 10	1.60	20	82	5.85	0.75	2.23	0.23	0.081	< 10	13	< 10
27052	0.6	0.8	384	499	< 2	33	10	145	2.53	< 10	100	< 1	< 10	0.54	8	91	3.55	0.48	1.97	0.07	0.033	< 10	8	< 10
27053	< 0.2	< 0.5	15	477	< 2	13	3	122	3.30	< 10	177	< 1	< 10	0.30	9	92	4.76	0.61	2.46	0.05	0.060	< 10	8	< 10
27054	< 0.2	0.5	10	546	< 2	8	< 2	170	4.03	< 10	130	< 1	< 10	0.38	13	67	6.51	1.02	3.18	0.07	0.076	< 10	11	< 10
27055	< 0.2	0.5	36	504	< 2	10	< 2	151	4.46	< 10	191	< 1	< 10	0.44	20	93	5.74	1.25	3.02	0.10	0.080	< 10	12	< 10
27056	0.3	0.5	199	636	< 2	12	4	135	3.97	< 10	147	< 1	< 10	0.79	13	76	6.29	1.08	2.66	0.09	0.075	< 10	11	< 10
27057	< 0.2	< 0.5	14	845	< 2	10	4	85	2.80	< 10	114	< 1	< 10	0.95	7	104	3.13	0.65	2.07	0.07	0.033	< 10	5	< 10
24402	0.8	< 0.5	834	185	< 2	34	< 2	29	2.54	< 10	168	< 1	< 10	0.49	14	165	2.40	0.44	1.65	0.09	0.006	< 10	6	< 10
24403	< 0.2	< 0.5	120	246	2	36	< 2	32	4.05	< 10	136	< 1	< 10	1.78	11	220	2.69	0.39	1.80	0.15	0.011	< 10	7	< 10
24404	< 0.2	0.6	437	229	< 2	17	3	52	4.27	< 10	168	< 1	< 10	1.30	12	133	4.01	0.94	2.12	0.17	0.017	< 10	6	< 10
24405	< 0.2	< 0.5	60	253	3	13	3	46	3.44	< 10	233	< 1	< 10	0.56	10	115	3.01	0.82	2.04	0.11	0.008	< 10	6	< 10
24406	< 0.2	< 0.5	31	220	< 2	13	< 2	41	3.03	< 10	182	< 1	< 10	0.15	8	126	2.47	0.82	1.80	0.08	0.013	< 10	4	< 10
24407	< 0.2	< 0.5	153	243	< 2	25	< 2	48	3.57	< 10	240	< 1	< 10	0.31	12	113	3.12	0.99	2.06	0.10	0.025	< 10	7	< 10
24408	0.2	< 0.5	396	339	< 2	40	2	49	3.84	< 10	156	< 1	< 10	0.84	13	142	3.63	0.74	2.33	0.09	0.022	< 10	8	< 10
24409	0.2	< 0.5	211	293	3	29	2	53	4.28	< 10	301	< 1	< 10	0.31	12	169	3.82	1.04	2.50	0.11	0.028	< 10	10	< 10
24410	< 0.2	< 0.5	3	9	< 2	< 1	< 2	1	0.05	< 10	10	< 1	< 10	0.04	< 1	3	0.06	0.01	0.02	0.01	0.004	< 10	< 1	< 10
24411	< 0.2	< 0.5	338	194	2	30	< 2	33	2.48	< 10	125	< 1	< 10	0.13	20	169	2.40	0.49	1.39	0.06	0.014	< 10	4	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27001	31	0.07	31	< 10	3	2	0.256	
27002	54	0.13	62	< 10	3	3	0.781	
27003	31	0.10	74	< 10	4	4	1.000	
27004	20	0.13	70	< 10	3	4	0.714	
27005	18	0.10	32	< 10	5	4	0.231	
27006	27	0.08	43	< 10	10	3	0.786	
27007	23	0.07	23	< 10	4	3	1.196	
27008	25	0.05	16	< 10	5	3	0.461	
27009	43	0.10	54	< 10	6	3	1.133	
27010	4	< 0.01	3	< 10	1	3	0.053	6
27011	31	0.07	44	< 10	4	3	0.933	
27012	81	0.03	20	< 10	1	< 1	0.218	
27013	70	0.04	84	< 10	1	2	1.138	
27014	84	0.03	20	< 10	< 1	< 1	0.844	
27015	65	0.03	26	< 10	< 1	2	1.717	
27016	83	0.02	26	< 10	< 1	2	1.730	
27017	88	0.03	21	< 10	< 1	< 1	0.452	
27065	85	0.03	19	< 10	< 1	< 1	0.161	
27066	89	0.02	14	< 10	< 1	< 1	0.110	
27067	81	0.03	16	< 10	< 1	1	0.147	
27018	85	0.03	21	< 10	1	< 1	0.074	
27019	71	0.02	25	< 10	< 1	2	2.004	
27020	63	0.02	31	< 10	< 1	1	0.520	
27021	87	0.02	19	< 10	< 1	< 1	0.678	
27022	79	0.02	16	< 10	< 1	2	2.193	
27023	67	0.03	19	< 10	< 1	2	1.881	
27024	73	0.01	10	< 10	< 1	< 1	0.147	
27025	53	0.01	20	< 10	< 1	3	3.583	
27026	12	0.03	46	< 10	1	8	6.884	
27027	51	0.02	30	< 10	2	3	3.446	
27028	24	0.02	36	< 10	2	4	5.008	
27029	60	0.02	18	< 10	2	2	0.737	
27030	2	< 0.01	< 1	< 10	< 1	4	0.028	
27031	32	0.04	41	< 10	< 1	2	2.714	
27032	82	0.03	32	< 10	< 1	1	1.831	
27033	56	0.03	23	< 10	< 1	1	1.046	
27034	80	0.02	24	< 10	< 1	2	2.352	
27035	90	0.02	19	< 10	< 1	< 1	0.820	
27036	113	0.02	17	< 10	< 1	< 1	0.092	
27037	100	0.03	21	< 10	< 1	< 1	0.370	
27038	21	0.05	70	< 10	2	2	3.498	
27039	25	0.06	100	< 10	< 1	< 1	0.656	
27040	82	0.01	31	< 10	< 1	1	0.476	
27041	24	0.05	95	< 10	1	1	0.855	
27042	9	0.05	103	< 10	2	3	2.800	
27043	7	0.08	115	< 10	8	2	0.233	
27044	4	0.07	146	< 10	6	2	0.118	
27045	9	0.13	132	< 10	6	3	0.071	
27046	15	0.18	119	< 10	10	4	0.166	
27047	7	0.04	85	< 10	2	7	8.556	
27058	11	0.07	4	< 10	16	13	0.270	
27056	14	0.05	3	< 10	9	14	0.191	

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27060	1	< 0.01	< 1	< 10	< 1	3	0.019	
27061	6	0.04	2	< 10	7	16	0.019	
27062	14	0.08	2	< 10	6	16	0.016	
27063	19	0.05	1	< 10	5	14	0.033	
27064	7	0.06	33	< 10	6	6	0.678	
26490	59	0.01	30	< 10	< 1	1	0.456	
26491	17	0.16	73	< 10	11	4	0.183	
26492	19	0.14	86	< 10	9	4	0.166	
26022	69	0.02	19	< 10	< 1	1	0.971	2030
27048	12	0.05	89	11	2	4	7.700	
27049	20	0.12	118	< 10	7	5	1.984	
27050	17	0.10	65	< 10	17	19	7.294	
27051	17	0.16	110	< 10	11	5	0.488	
27052	7	0.11	27	< 10	11	8	0.151	
27053	5	0.11	49	< 10	10	3	0.015	
27054	8	0.14	70	< 10	7	6	0.014	
27055	11	0.18	77	< 10	7	6	0.015	
27056	13	0.18	70	< 10	8	7	0.059	
27057	13	0.12	28	< 10	14	7	0.020	
24402	32	0.06	22	< 10	3	6	0.186	
24403	30	0.08	22	< 10	5	3	0.096	
24404	19	0.11	24	< 10	5	5	0.318	
24405	15	0.06	13	< 10	7	5	0.062	
24406	12	0.11	19	< 10	5	4	0.011	
24407	13	0.14	32	< 10	5	4	0.036	
24408	17	0.13	36	< 10	10	4	0.164	
24409	14	0.14	44	< 10	8	4	0.036	
24410	2	< 0.01	< 1	< 10	1	4	0.016	
24411	11	0.08	14	< 10	5	6	0.164	

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.0	3.8	1120	927	14	38	980	523	0.45	346	227	<1	1400	0.78	7	11	24.5	0.04	0.15	0.07	0.041	76	1	30
GXR-1 Cert	31.0	3.30	1110	952	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	4.0	1.5	6520	175	324	43	59	96	2.88	113	32	1	64	1.01	15	56	4.14	1.40	1.76	0.13	0.119	<10	7	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.0	5.0	96	1110	<2	20	771	596	4.24	21	1300	1	<10	0.90	11	30	2.36	0.58	0.59	0.29	0.054	19	6	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	1.2	87	1050	<2	27	94	121	7.63	244	877	<1	<10	0.27	17	83	6.41	0.83	0.45	0.17	0.032	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.9	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas																								
OREAS 13P Cert																								
27016 Ong	3.0	1.5	2110	172	<2	655	23	25	4.50	<10	11	<1	<10	3.00	76	140	3.90	0.01	0.01	0.37	0.006	<10	3	<10
27016 Dup	2.9	1.6	2100	175	<2	671	26	30	4.51	<10	12	<1	<10	2.99	75	139	3.97	0.02	0.02	0.36	0.006	<10	3	<10
27027 Ong	16.7	2.1	>10000	236	<2	1960	60	37	4.69	<10	11	<1	<10	2.66	67	190	7.81	0.03	1.64	0.34	0.016	<10	3	<10
27027 Dup	16.8	1.7	>10000	234	<2	1870	57	35	4.94	<10	12	<1	<10	2.62	81	190	7.52	0.03	1.62	0.34	0.016	<10	3	<10
27040 Ong	0.8	<0.5	1650	289	<2	1650	3	26	5.42	<10	17	<1	<10	2.74	56	140	3.27	0.03	3.16	0.32	0.003	<10	3	<10
27040 Dup	0.5	<0.5	1590	279	<2	1560	<2	25	5.15	<10	17	<1	<10	2.63	54	134	3.09	0.03	3.04	0.30	0.003	<10	3	<10
27054 Ong	1.1	1.6	1550	374	3	25	2	197	2.21	<10	63	<1	<10	0.28	21	150	4.14	0.37	1.33	0.03	0.037	<10	3	<10
27054 Dup	2.0	1.4	1490	357	3	26	2	190	2.08	<10	58	<1	<10	0.27	20	152	3.88	0.34	1.25	0.03	0.035	<10	3	<10
24405 Ong	<0.2	<0.5	63	258	3	12	3	48	3.52	<10	238	<1	<10	0.57	10	116	3.07	0.94	2.09	0.11	0.008	<10	8	<10
24405 Dup	<0.2	<0.5	57	249	2	13	3	45	3.35	<10	229	<1	<10	0.55	9	113	2.94	0.90	2.00	0.11	0.008	<10	5	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	8	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method																								
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	178		77	131	23	16	0.207	1140
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257	1110
GXR-4 Meas	78		66	16	13	11	1.852	5640
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77	6520
GXR-2 Meas	59		55	< 10	12	9	0.042	81
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313	76.0
GXR-6 Meas	35		172	< 10	7	7	0.042	69
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160	66.0
OREAS 13P Meas								2720
OREAS 13P Cert								2500
27015 Orig	53	0.02	26	< 10	< 1	1	1.717	
27015 Dup	53	0.02	26	< 10	< 1	2	1.744	
27027 Orig	52	0.02	30	< 10	2	3	3.452	
27027 Dup	51	0.02	30	< 10	2	3	3.440	
27040 Orig	65	0.01	32	< 10	< 1	1	0.483	
27040 Dup	60	0.01	30	< 10	< 1	1	0.466	
27064 Orig	7	0.07	34	< 10	6	6	0.639	
27064 Dup	6	0.06	32	< 10	6	5	0.666	
24405 Orig	18	0.09	13	< 10	7	5	0.085	
24405 Dup	15	0.09	13	< 10	7	5	0.059	
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001	
Blank								
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001	
Blank								
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001	
Blank								
Method Blank Method								< 1
Blank								



Date Submitted: 10-Jun-08
Invoice No.: A08-3063
Invoice Date: 11-Jul-08
Your Reference: dossier 22426

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

96 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3063**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is fluid and cursive, written over a horizontal dotted line.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3063

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
25342	0.4	2.4	2<5	101	5	80	17	358	0.46	<10	13	<1	<10	0.18	12	259	1.28	0.04	0.34	0.02	0.001	<10	1	<10
25343	16.6	20.1	>10000	758	<2	6710	118	900	2.18	<10	9	<1	13	1.20	287	83	32.6	0.03	1.61	0.02	0.012	<10	5	15
25344	23.3	25.8	>10000	1080	<2	4680	184	1140	3.22	<10	7	<1	28	1.45	223	92	31.0	0.02	2.55	0.01	0.013	<10	9	15
25345	9.3	17.1	5830	711	<2	4600	78	784	2.21	<10	6	<1	16	1.46	1100	86	33.5	0.01	1.62	0.02	0.007	13	5	17
25346	14.0	17.3	>10000	536	<2	7200	69	620	1.60	<10	6	<1	<10	0.43	398	87	37.8	0.02	0.84	0.02	0.007	12	3	13
25347	15.4	14.6	>10000	253	<2	7490	67	432	1.29	<10	12	<1	<10	0.26	250	92	37.8	0.11	0.63	0.05	0.007	11	2	16
25348	16.2	15.8	>10000	466	<2	5680	75	615	1.85	<10	10	<1	<10	0.29	200	82	32.0	0.04	1.42	0.03	0.016	<10	4	17
25349	4.1	3.9	3140	453	<2	1660	36	361	2.79	<10	23	<1	26	0.59	85	97	13.4	0.22	2.82	0.03	0.051	<10	7	10
25350	1.0	3.0	9070	295	<2	>10000	5	45	0.58	<10	16	<1	<10	0.41	603	32	33.4	0.12	0.18	0.10	0.047	<10	4	<10
25351	0.4	2.4	407	534	<2	197	11	244	3.40	<10	168	<1	<10	0.28	20	87	6.02	0.49	2.60	0.06	0.066	<10	8	<10
25352	0.3	1.8	312	789	3	36	3	92	4.25	<10	142	<1	<10	0.40	17	83	7.41	0.84	3.48	0.05	0.075	<10	10	<10
25353	0.4	1.5	412	704	<2	232	6	97	3.69	<10	139	<1	<10	0.44	30	78	7.33	0.61	2.85	0.05	0.079	<10	10	<10
25354	<0.2	1.4	47	623	<2	16	<2	116	4.17	<10	207	<1	<10	0.38	17	62	6.18	0.78	2.89	0.07	0.083	<10	11	<10
25355	<0.2	1.2	41	323	<2	12	<2	131	4.15	<10	125	<1	<10	0.68	14	86	5.96	0.51	3.35	0.06	0.087	<10	10	<10
25356	<0.2	1.1	35	888	<2	10	<2	120	4.23	<10	230	<1	<10	0.58	14	78	5.51	0.70	3.34	0.06	0.081	<10	10	<10
25357	<0.2	1.1	63	1020	<2	11	<2	139	4.07	<10	100	<1	<10	1.02	14	91	6.03	0.46	3.93	0.04	0.074	<10	9	<10
25358	<0.2	1.0	12	797	<2	8	<2	142	4.29	<10	142	<1	<10	1.04	13	47	5.25	0.64	3.48	0.10	0.080	<10	11	<10
25359	0.2	1.2	272	865	3	22	3	144	3.64	<10	93	<1	<10	1.63	15	107	6.81	0.41	3.66	0.06	0.061	<10	10	<10
25360	<0.2	<0.5	4	14	<2	<1	<2	1	0.05	<10	9	<1	<10	0.04	<1	3	0.06	0.01	0.02	0.01	0.004	<10	<1	<10
25361	<0.2	1.1	32	785	<2	9	<2	175	4.23	<10	113	<1	<10	1.47	16	56	5.75	0.47	3.58	0.06	0.085	<10	11	<10
25362	<0.2	1.2	24	829	2	32	<2	151	4.03	<10	139	<1	<10	1.49	23	158	5.02	0.46	3.11	0.06	0.068	<10	12	<10
25363	<0.2	1.1	9	774	<2	10	<2	129	3.70	<10	174	<1	<10	0.59	15	78	5.31	0.55	2.84	0.05	0.086	<10	9	<10
25364	<0.2	1.2	10	703	3	10	<2	118	3.52	<10	105	<1	<10	0.56	15	101	5.35	0.46	2.75	0.04	0.084	<10	7	<10
25365	<0.2	0.9	36	672	2	11	2	94	2.70	<10	50	<1	<10	2.30	11	88	4.28	0.26	2.13	0.03	0.072	<10	6	<10
25366	<0.2	1.1	19	710	2	20	3	147	2.82	<10	49	<1	<10	1.75	17	110	4.50	0.27	2.03	0.03	0.069	<10	7	<10
25367	<0.2	1.1	11	687	<2	14	3	129	4.17	<10	237	<1	<10	1.27	18	96	5.09	0.72	2.43	0.14	0.074	<10	12	<10
29128	0.5	0.8	820	229	<2	324	<2	45	4.12	<10	15	<1	<10	1.78	45	214	3.39	0.03	3.75	0.14	0.012	<10	2	<10
29127	0.2	0.9	253	351	<2	210	<2	36	5.75	<10	12	<1	<10	3.69	29	227	3.42	0.03	3.20	0.18	0.097	<10	3	<10
29129	<0.2	<0.5	80	131	<2	166	<2	13	3.42	<10	248	<1	<10	2.20	17	208	1.36	0.13	1.24	0.37	0.004	<10	3	<10
29129	<0.2	0.5	122	252	<2	47	2	15	4.48	<10	16	<1	<10	3.56	15	100	1.79	0.02	1.12	0.57	0.020	<10	9	<10
29130	<0.2	<0.5	4	12	<2	<1	<2	2	0.05	<10	10	<1	<10	0.04	<1	3	0.06	0.01	0.02	0.02	0.004	<10	<1	<10
29131	<0.2	<0.5	110	218	<2	89	<2	13	4.44	<10	16	<1	<10	3.30	17	100	1.66	0.01	0.97	0.57	0.015	<10	7	<10
29132	0.3	<0.5	160	144	<2	119	2	14	6.73	<10	9	<1	<10	4.83	15	112	1.30	0.03	1.02	0.57	0.013	<10	4	<10
29133	2.9	0.9	4770	227	<2	363	3	71	5.35	<10	28	<1	<10	2.20	59	525	4.61	0.14	4.77	0.12	0.004	<10	5	<10
29134	0.2	0.6	245	169	<2	140	<2	30	6.88	<10	22	<1	<10	4.67	18	278	2.20	0.09	1.80	0.37	0.011	<10	4	<10
29135	<0.2	0.8	154	278	3	35	7	42	3.14	<10	367	<1	<10	0.30	20	100	3.55	0.93	2.44	0.11	0.022	<10	7	<10
29135	<0.2	0.7	123	238	<2	14	<2	23	3.00	<10	263	<1	<10	0.18	12	91	3.38	0.78	2.13	0.08	0.029	<10	6	<10
29137	<0.2	0.8	211	278	2	22	<2	27	3.55	<10	373	<1	<10	0.13	11	130	3.61	0.89	1.98	0.11	0.020	<10	7	<10
29138	0.3	0.9	380	294	<2	42	<2	31	3.10	<10	200	<1	<10	0.60	14	163	3.74	0.86	2.43	0.11	0.016	<10	9	<10
29139	0.3	0.8	288	245	<2	171	<2	30	6.84	<10	77	<1	<10	3.75	29	511	4.01	3.39	2.89	0.36	0.007	<10	8	<10
29140	0.7	0.7	1680	343	<2	1730	3	29	6.31	<10	24	<1	<10	3.20	53	156	3.81	0.04	3.65	0.34	0.003	<10	3	<10
29141	<0.2	<0.5	126	75	<2	98	<2	16	7.84	<10	54	<1	<10	5.24	15	324	1.51	0.28	1.17	0.54	0.007	<10	3	<10
29142	0.9	1.4	806	190	<2	152	<2	81	4.86	<10	109	<1	<10	2.55	18	198	3.99	0.38	1.95	0.37	0.011	<10	5	<10
29143	<0.2	<0.5	234	89	<2	200	5	16	9.01	<10	123	<1	<10	5.61	29	227	1.91	0.33	1.28	0.97	0.009	<10	5	<10
29144	1.7	1.4	1180	150	<2	242	8	28	7.20	<10	47	<1	<10	4.85	31	344	2.12	0.20	1.14	0.74	0.008	<10	3	<10
29145	0.4	0.5	368	126	<2	145	9	13	9.60	<10	28	<1	<10	6.73	17	158	1.50	0.60	0.77	1.09	0.008	<10	3	<10
29146	0.5	<0.5	277	95	<2	86	6	11	6.65	<10	40	<1	<10	4.64	11	166	1.04	0.09	0.75	0.78	0.009	<10	3	<10
29147	<0.2	<0.5	75	89	<2	50	7	9	8.19	<10	19	<1	<10	6.81	8	144	0.92	0.05	0.87	0.93	0.007	<10	3	<10
29148	<0.2	0.7	129	261	<2	136	6	37	9.10	<10	120	<1	<10	5.07	20	411	3.73	0.73	2.75	0.59	0.025	<10	9	<10
29149	<0.2	0.7	78	335	<2	42	<2	38	3.21	<10	289	<1	<10	0.52	11	189	3.11	0.78	2.39	0.15	0.006	<10	5	<10
29150	1.0	3.0	9130	327	<2	>10000	5	44	0.56	<10	6	<1	<10	0.40	603	33	33.3	0.12	0.18	0.09	0.048	<10	4	<10
29151	<0.2	0.7	83	283	2	50	<2	41	3.60	<10	641	<1	<10	0.11	11	126	3.06	0.78	2.10	0.14	0.011	<10	7	<10

Activation Laboratories Ltd. Report: A08-3063

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR4CP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
29152	0.5	1.0	456	293	<2	66	<2	42	3.33	<10	461	<1	<10	0.09	24	93	3.76	1.00	2.10	0.12	0.012	<10	9	<10
29153	1.0	1.7	784	373	3	76	<2	57	3.46	<10	304	1	<10	0.11	23	114	4.21	1.03	2.63	0.11	0.015	<10	10	<10
29154	1.0	1.3	713	181	<2	208	5	45	3.66	<10	107	<1	<10	1.25	40	293	4.09	0.88	2.21	0.33	0.010	<10	7	<10
29155	<0.2	<0.5	55	125	<2	48	11	13	6.35	<10	53	<1	<10	4.37	9	181	1.26	0.09	0.85	0.73	0.008	<10	4	<10
29156	0.3	<0.5	192	106	<2	129	15	13	7.65	<10	16	<1	<10	6.47	25	91	1.29	0.03	0.74	0.71	0.012	<10	3	<10
29157	7.5	5.5	3250	76	3	63	6	89	0.77	<10	9	<1	<10	0.68	16	221	1.02	<0.01	0.32	0.11	0.001	<10	1	<10
29158	0.5	0.6	224	130	<2	96	17	15	7.45	<10	17	<1	<10	5.51	15	115	1.31	0.02	1.01	0.64	0.010	<10	4	<10
29159	0.5	<0.5	266	140	<2	160	19	17	7.89	<10	20	<1	<10	6.58	24	136	1.60	0.04	1.16	0.60	0.007	<10	4	<10
29160	<0.2	<0.5	4	13	<2	<1	<2	2	0.06	<10	11	<1	<10	0.05	<1	3	0.05	0.01	0.02	0.02	0.004	<10	<1	<10
29161	0.3	<0.5	156	104	<2	110	18	13	6.90	<10	24	<1	<10	4.99	17	94	1.13	0.05	0.96	0.46	0.006	<10	2	<10
29162	<0.2	0.5	113	174	<2	82	15	19	8.60	<10	22	<1	<10	4.83	10	107	1.30	0.03	0.95	0.56	0.008	<10	5	<10
29163	0.7	1.0	590	150	<2	252	19	48	7.27	<10	150	<1	<10	4.56	29	313	3.36	0.40	1.87	0.66	0.009	<10	6	<10
29164	0.3	0.7	316	138	<2	167	17	48	6.79	<10	86	<1	<10	4.48	19	267	2.65	0.26	1.58	0.41	0.006	<10	3	<10
29165	0.4	<0.5	253	123	<2	124	20	31	5.75	<10	33	<1	<10	4.15	17	135	1.59	0.07	0.99	0.38	0.008	<10	2	<10
29166	<0.2	<0.5	137	68	<2	149	18	22	6.13	<10	78	<1	<10	4.30	15	154	1.16	0.13	0.73	0.56	0.026	<10	3	<10
29167	0.9	0.8	676	96	<2	397	24	30	7.76	<10	37	<1	<10	6.40	30	144	1.96	0.06	0.85	0.63	0.014	<10	3	<10
29168	1.8	1.4	1240	144	<2	375	23	44	6.51	<10	18	<1	<10	4.81	31	119	2.40	0.03	0.87	0.54	0.012	<10	4	<10
29169	1.3	1.2	770	221	<2	341	16	62	4.62	<10	18	<1	<10	3.39	35	179	2.66	0.06	1.72	0.40	0.011	<10	4	<10
29170	0.8	0.7	1640	313	<2	1680	2	24	5.95	<10	19	<1	<10	2.91	50	139	3.44	0.03	3.30	0.32	0.002	<10	3	<10
29171	1.1	0.8	607	139	<2	215	28	31	5.62	<10	15	<1	<10	4.26	17	133	1.53	0.02	0.85	0.61	0.014	<10	4	<10
29172	2.1	1.7	1090	145	<2	350	27	43	5.75	<10	18	<1	<10	4.19	28	169	1.90	0.02	0.90	0.66	0.009	<10	4	<10
29173	3.0	1.9	1780	185	<2	570	25	58	5.35	<10	15	<1	<10	3.85	48	134	2.83	0.02	0.99	0.58	0.007	<10	4	<10
29174	1.3	1.4	744	142	<2	268	29	36	5.41	<10	17	<1	<10	3.87	28	114	1.74	0.02	0.80	0.57	0.007	<10	3	<10
29175	2.2	1.6	1290	133	<2	285	33	44	5.10	<10	20	<1	<10	3.63	30	108	1.76	0.02	0.78	0.56	0.008	<10	3	<10
29176	6.1	3.4	2910	125	<2	911	33	97	4.62	<10	24	<1	<10	3.05	59	97	4.07	0.11	0.85	0.47	0.007	<10	3	<10
29177	8.4	4.9	4820	164	<2	1440	36	131	4.03	<10	15	<1	<10	2.76	116	109	5.91	0.03	0.90	0.43	0.006	<10	4	<10
29178	2.8	1.8	1570	121	<2	232	44	60	5.15	<10	20	<1	<10	3.70	24	95	1.67	0.05	0.75	0.51	0.007	<10	3	<10
29179	5.9	3.7	2760	146	<2	764	59	117	5.10	<10	15	<1	<10	3.68	52	113	3.57	0.03	0.83	0.60	0.005	<10	4	<10
29180	<0.2	<0.5	6	11	<2	<1	<2	2	0.04	<10	8	<1	<10	0.04	<1	3	0.05	0.01	0.02	0.01	0.004	<10	<1	<10
29181	4.6	3.4	3050	197	<2	1400	51	107	3.93	<10	23	<1	<10	2.27	104	225	5.66	0.14	1.33	0.49	0.006	<10	5	<10
29182	3.9	3.8	2870	191	<2	1510	62	101	3.45	<10	17	<1	<10	2.43	143	167	6.90	0.05	0.98	0.47	0.008	<10	6	<10
29183	2.8	2.5	1780	174	<2	691	81	94	4.89	<10	25	<1	<10	3.50	51	138	3.49	0.05	0.81	0.55	0.011	<10	4	<10
29184	2.7	3.6	1630	178	<2	734	95	112	4.30	<10	22	<1	<10	3.15	48	143	3.60	0.04	0.84	0.55	0.013	<10	4	<10
29185	4.7	4.3	3000	174	<2	1200	104	155	4.06	<10	20	<1	<10	2.89	88	117	5.19	0.03	0.76	0.47	0.012	<10	4	<10
29186	5.9	4.9	3580	154	<2	2610	101	199	3.23	<10	10	<1	<10	1.85	154	90	5.41	0.04	0.72	0.43	0.007	<10	3	<10
29187	8.0	7.1	5260	192	<2	2790	118	270	3.60	<10	9	<1	<10	1.84	154	116	10.6	0.05	0.91	0.44	0.007	<10	4	<10
29188	9.3	7.8	8270	171	<2	2960	129	280	3.63	<10	9	<1	<10	1.88	215	105	11.0	0.02	0.73	0.44	0.007	<10	4	<10
29189	5.2	5.5	3310	192	<2	1060	174	206	5.37	<10	12	<1	<10	3.58	108	153	5.15	0.02	0.81	0.57	0.015	<10	5	<10
29190	0.7	0.7	1720	318	<2	1700	2	26	6.18	<10	19	<1	<10	2.96	61	140	3.48	0.03	3.35	0.33	0.002	<10	3	<10
29191	15.4	16.8	>10000	164	<2	2240	171	593	4.12	<10	10	<1	<10	2.10	193	112	9.30	0.02	1.72	0.45	0.010	<10	4	<10
29192	6.1	5.6	3230	163	<2	1260	216	217	5.25	<10	14	<1	<10	3.45	82	105	5.35	0.02	0.75	0.60	0.011	<10	4	<10
29193	9.9	9.3	5360	152	<2	2460	229	347	4.21	<10	11	<1	11	2.25	164	94	8.28	0.04	0.73	0.47	0.008	<10	4	<10
29194	7.0	5.3	3490	124	<2	2660	209	210	3.73	<10	10	<1	<10	2.14	137	83	5.39	0.02	0.54	0.44	0.007	<10	3	<10
29195	21.8	18.4	>10000	208	<2	2130	226	688	4.05	<10	8	<1	<10	2.06	381	146	10.6	0.02	0.87	0.46	0.010	<10	4	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25342	2	0.02	10	< 10	2	2	0.348
25343	3	0.04	96	11	4	10	4.790
25344	3	0.08	102	< 10	3	8	7.047
25345	3	0.03	84	< 10	2	9	9.338
25346	3	0.03	78	128	2	10	6.062
25347	8	0.04	104	< 10	1	11	5.180
25348	3	0.05	109	< 10	4	10	3.894
25349	4	0.11	95	< 10	13	9	3.982
25350	17	0.09	62	< 10	16	19	7.563
25351	6	0.07	91	< 10	14	13	0.533
25352	9	0.15	82	< 10	15	8	0.239
25353	6	0.15	70	< 10	14	12	0.968
25354	10	0.13	75	< 10	9	10	0.087
25355	11	0.18	73	< 10	16	10	0.025
25356	15	0.11	73	< 10	11	10	0.031
25357	8	0.17	82	< 10	19	10	0.023
25358	20	0.22	73	< 10	13	8	0.013
25359	12	0.21	64	< 10	20	10	0.099
25360	2	< 0.01	< 1	< 10	1	5	0.017
25361	19	0.23	76	< 10	16	9	0.038
25362	12	0.16	83	< 10	16	11	0.031
25363	8	0.13	68	< 10	15	10	0.017
25364	5	0.06	56	< 10	16	11	0.068
25365	6	0.03	38	< 10	19	8	0.107
25366	8	0.13	56	< 10	16	10	0.055
25367	16	0.22	79	< 10	12	8	0.020
29128	30	0.04	20	< 10	1	1	0.133
29127	56	0.05	47	< 10	1	1	0.056
29128	25	0.05	30	< 10	< 1	1	0.028
29129	51	0.05	50	< 10	3	1	0.107
29130	2	< 0.01	< 1	< 10	1	4	0.017
29131	49	0.05	40	< 10	2	2	0.170
29132	74	0.02	25	< 10	< 1	< 1	0.183
29133	25	0.07	78	< 10	< 1	1	0.739
29134	59	0.05	41	< 10	4	2	0.128
29135	12	0.15	23	< 10	7	5	0.096
29136	8	0.13	13	< 10	8	4	0.096
29137	9	0.15	14	< 10	5	5	0.205
29138	7	0.14	24	< 10	8	5	0.136
29139	39	0.11	73	< 10	4	2	0.285
29140	89	0.02	37	< 10	< 1	2	0.494
29141	75	0.06	38	< 10	< 1	< 1	0.130
29142	44	0.07	38	< 10	3	4	0.793
29143	115	0.06	45	< 10	1	< 1	0.243
29144	94	0.05	32	< 10	1	< 1	0.424
29145	139	0.04	27	< 10	1	< 1	0.251
29146	82	0.03	20	< 10	< 1	< 1	0.104
29147	110	0.03	20	< 10	< 1	< 1	0.082
29148	80	0.10	76	< 10	5	2	0.077
29149	11	0.09	23	< 10	3	3	0.017
29150	18	0.11	63	< 10	17	20	9.725
29151	6	0.11	21	< 10	3	3	0.034

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
29152	4	0.15	32	< 10	3	3	0.273
29153	5	0.16	36	< 10	4	4	0.372
29154	33	0.13	53	< 10	5	4	0.827
29155	77	0.05	25	< 10	2	< 1	0.067
29156	114	0.03	20	< 10	< 1	< 1	0.227
29157	10	< 0.01	8	< 10	< 1	< 1	0.512
29158	118	0.03	21	< 10	< 1	< 1	0.126
29159	120	0.03	23	< 10	< 1	< 1	0.197
29160	2	< 0.01	< 1	< 10	1	4	0.018
29161	104	0.02	16	< 10	< 1	< 1	0.125
29162	90	0.03	25	< 10	1	< 1	0.116
29163	147	0.07	54	< 10	2	1	0.552
29164	80	0.04	37	< 10	< 1	1	0.445
29165	63	0.02	23	< 10	< 1	< 1	0.259
29166	86	0.03	23	< 10	2	< 1	0.224
29167	142	0.03	20	< 10	1	< 1	0.610
29168	89	0.03	27	< 10	1	1	0.805
29169	86	0.04	26	< 10	1	1	0.487
29170	63	0.02	32	< 10	< 1	1	0.474
29171	104	0.03	23	< 10	1	< 1	0.298
29172	85	0.02	22	< 10	< 1	< 1	0.539
29173	78	0.02	23	< 10	< 1	1	1.035
29174	79	0.02	16	< 10	< 1	< 1	0.528
29175	75	0.02	19	< 10	< 1	< 1	0.578
29175	54	0.03	24	< 10	< 1	1	1.819
29177	60	0.02	26	< 10	< 1	2	2.793
29178	78	0.02	19	< 10	< 1	< 1	0.514
29179	75	0.02	22	< 10	< 1	1	1.537
29180	2	< 0.01	< 1	< 10	< 1	4	0.018
29181	69	0.05	40	< 10	1	2	2.337
29182	46	0.03	36	< 10	1	2	2.680
29183	75	0.03	28	< 10	< 1	1	1.368
29184	70	0.03	24	< 10	1	2	1.381
29185	71	0.03	25	< 10	1	2	2.199
29185	51	0.02	21	< 10	< 1	3	4.335
29187	57	0.03	26	< 10	< 1	4	4.590
29188	55	0.02	23	< 10	< 1	4	4.932
29189	89	0.02	26	< 10	1	2	2.187
29190	84	0.02	33	< 10	< 1	1	0.487
29191	60	0.02	25	< 10	< 1	3	4.233
29192	85	0.02	20	< 10	1	2	2.332
29193	61	0.02	22	< 10	< 1	3	4.112
29194	58	0.01	16	< 10	< 1	3	4.327
29195	54	0.03	35	< 10	1	4	4.850

Activation Laboratories Ltd. Report: A08-3063

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.3	1110	743	14	37	960	630	0.34	336	238	<1	<10	0.76	7	6	23.5	0.02	0.13	0.06	0.038	88	1	30	
GXR-1 Cert	31.0	3.30	1110	952	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.4	1.1	6270	145	330	41	44	58	2.80	99	23	1	15	1.01	15	56	3.43	1.39	1.73	0.12	0.118	<10	7	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.4	4.9	81	1060	<2	18	754	545	3.77	14	1280	1	<10	0.87	10	26	2.12	0.96	0.56	0.29	0.054	28	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	1.4	74	1030	<2	26	97	123	7.81	216	907	<1	<10	0.17	14	85	5.46	0.96	0.45	0.17	0.032	<10	23	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas						2360											6.18							
OREAS 13P Cert						2500											7.58							
25354 Ong	< 0.2	1.2	50	528	3	16	< 2	115	4.22	< 10	207	< 1	< 10	0.39	18	62	5.30	0.78	2.93	0.07	0.084	< 10	11	< 10
25354 Dup	< 0.2	1.6	45	518	< 2	16	3	117	4.12	< 10	206	< 1	< 10	0.37	17	61	5.07	0.77	2.85	0.07	0.082	< 10	11	< 10
29126 Ong	0.5	1.0	792	228	< 2	319	< 2	45	4.01	< 10	15	< 1	< 10	1.77	45	213	3.36	0.03	3.73	0.13	0.012	< 10	2	< 10
29126 Dup	0.6	0.7	848	231	< 2	329	< 2	45	4.23	< 10	15	< 1	< 10	1.80	45	216	3.40	0.03	3.78	0.14	0.013	< 10	2	< 10
29135 Ong	0.3	0.5	279	240	< 2	169	< 2	30	6.46	< 10	76	< 1	< 10	3.73	29	502	3.94	0.38	2.68	0.36	0.007	< 10	8	< 10
29135 Dup	0.3	0.7	282	250	< 2	172	< 2	30	6.62	< 10	77	< 1	< 10	3.77	29	520	4.06	0.39	2.62	0.36	0.007	< 10	8	< 10
29153 Ong	1.0	1.7	788	319	3	79	< 2	57	3.41	< 10	241	1	< 10	0.11	22	114	4.20	1.03	2.51	0.10	0.015	< 10	10	< 10
29153 Dup	1.0	1.6	778	326	2	77	< 2	57	3.51	< 10	368	1	< 10	0.11	23	115	4.22	1.03	2.54	0.12	0.016	< 10	10	< 10
29175 Ong	6.1	3.7	2930	126	< 2	913	32	97	4.88	< 10	24	< 1	< 10	3.08	101	95	4.06	0.11	0.85	0.47	0.007	< 10	3	< 10
29175 Dup	6.0	3.0	2890	125	< 2	909	34	97	4.57	< 10	25	< 1	< 10	3.03	95	96	4.06	0.11	0.85	0.46	0.007	< 10	3	< 10
29160 Ong	0.6	0.8	1750	321	< 2	1720	2	26	6.23	< 10	19	< 1	< 10	2.97	52	141	3.50	0.03	3.35	0.34	0.002	< 10	3	< 10
29160 Dup	0.7	0.7	1680	316	< 2	1670	3	26	6.13	< 10	19	< 1	< 10	2.95	51	139	3.46	0.03	3.34	0.33	0.002	< 10	3	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	189		74	136	23	14	0.197
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	73		87	14	12	10	1.849
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	97		90	< 10	11	11	0.036
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	33		184	< 10	6	9	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
25354 Orig	10	0.13	76	< 10	9	9	0.080
25354 Dup	10	0.13	74	< 10	9	10	0.094
29126 Orig	30	0.04	20	< 10	1	1	0.129
29126 Dup	31	0.04	20	< 10	1	1	0.137
29135 Orig	39	0.11	72	< 10	4	2	0.282
29135 Dup	39	0.11	74	< 10	4	2	0.288
29153 Orig	5	0.16	35	< 10	4	4	0.371
29153 Dup	5	0.16	36	< 10	4	4	0.373
29178 Orig	65	0.03	24	< 10	< 1	1	1.811
29178 Dup	64	0.03	24	< 10	< 1	1	1.826
29190 Orig	64	0.02	33	< 10	< 1	1	0.487
29190 Dup	64	0.02	33	< 10	< 1	1	0.488
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 10-Jun-08
Invoice No.: A08-3064
Invoice Date: 23-Jun-08
Your Reference: dossier 22427

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

30 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3064**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3064

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
24412	0.2	0.5	156	212	3	51	3	39	2.65	<10	131	<1	<10	0.32	14	137	2.79	0.59	1.64	0.06	0.012	<10	5	<10
24413	0.5	0.5	422	379	2	54	2	51	4.06	<10	125	<1	<10	0.86	19	85	4.05	0.77	2.68	0.12	0.016	<10	7	<10
24414	0.5	1.2	381	515	<2	125	19	99	4.47	<10	34	<1	<10	1.64	22	348	4.67	0.29	3.65	0.10	0.012	<10	10	<10
24415	1.0	3.5	1140	517	<2	188	15	410	4.12	<10	11	<1	<10	1.74	38	165	4.04	0.04	2.74	0.09	0.006	<10	4	<10
24416	0.3	0.6	182	63	<2	70	11	14	6.17	<10	15	<1	<10	4.21	10	64	0.65	0.02	0.42	0.50	0.007	<10	1	<10
24417	<0.2	<0.5	109	129	<2	63	12	12	6.15	<10	15	<1	<10	4.37	11	113	1.12	0.01	0.75	0.65	0.010	<10	3	<10
24418	0.5	0.6	360	86	<2	241	14	10	5.60	<10	21	<1	<10	3.80	33	63	1.36	0.02	0.57	0.49	0.009	<10	2	<10
24419	0.2	<0.5	116	124	<2	77	13	9	5.93	<10	21	<1	<10	4.27	17	103	1.22	0.02	0.71	0.57	0.013	<10	3	<10
24420	0.7	0.6	1600	303	<2	1630	<2	26	6.03	<10	19	<1	<10	3.89	59	137	3.36	0.03	3.27	0.33	0.003	<10	3	<10
24421	<0.2	<0.5	69	166	<2	67	15	12	5.14	<10	16	<1	<10	3.67	12	127	1.47	0.02	1.10	0.42	0.012	<10	3	<10
24422	0.8	0.8	457	131	<2	344	24	23	5.91	<10	20	<1	<10	4.28	31	117	2.20	0.03	0.84	0.47	0.009	<10	3	<10
24423	3.2	1.1	3240	117	<2	690	26	30	6.22	<10	20	<1	<10	4.34	77	125	3.76	0.02	0.77	0.48	0.011	<10	3	<10
24424	0.8	1.6	623	137	<2	437	30	28	6.22	<10	30	<1	<10	4.36	41	129	2.74	0.05	1.06	0.57	0.007	<10	3	<10
24425	3.0	1.5	2880	87	<2	2570	35	45	5.35	<10	43	<1	<10	3.45	169	118	8.07	0.06	0.80	0.30	0.006	<10	2	<10
24426	1.8	1.4	1580	67	<2	1380	41	37	6.48	<10	43	<1	<10	4.01	62	216	5.09	0.18	0.95	0.49	0.008	<10	2	<10
24427	3.2	1.3	2610	60	<2	500	49	39	4.69	<10	64	<1	<10	2.71	42	218	2.68	0.21	0.89	0.51	0.015	<10	2	<10
24428	0.8	1.3	747	67	<2	485	35	54	4.06	<10	100	<1	<10	1.72	39	316	3.03	0.50	1.64	0.46	0.008	<10	3	<10
24429	0.8	1.1	806	249	<2	777	11	154	5.33	<10	90	<1	<10	0.33	62	123	6.83	0.43	5.78	0.10	0.006	<10	13	<10
24430	<0.2	<0.5	5	11	<2	1	<2	2	0.05	<10	3	<1	<10	0.04	<1	2	0.06	0.01	0.03	0.01	0.003	<10	<1	<10
24431	0.7	1.5	706	251	<2	590	7	152	5.08	<10	98	<1	<10	0.13	33	42	6.43	0.57	5.78	0.05	0.008	<10	12	<10
24432	0.3	1.0	251	249	<2	236	8	135	4.45	<10	84	<1	<10	0.18	23	49	4.88	0.29	5.06	0.05	0.006	<10	9	<10
24433	0.3	1.3	280	265	<2	205	11	143	4.30	<10	72	<1	<10	0.28	24	63	4.76	0.22	4.88	0.04	0.010	<10	10	<10
24434	0.4	0.6	332	222	<2	280	10	132	4.00	<10	143	<1	<10	0.27	31	51	4.85	0.51	4.62	0.06	0.012	<10	12	<10
24435	1.1	1.2	699	101	<2	701	13	80	2.89	<10	64	<1	<10	0.44	47	93	4.32	0.84	2.78	0.16	0.010	<10	7	<10
24436	2.1	1.1	1100	114	<2	331	24	91	2.99	<10	154	<1	<10	0.50	41	60	4.18	0.72	3.06	0.10	0.016	<10	9	<10
24437	1.2	1.2	769	92	<2	346	18	109	3.42	<10	124	<1	<10	0.36	46	64	4.56	1.10	3.44	0.17	0.010	<10	10	<10
24438	1.8	0.9	1140	85	<2	852	29	84	3.72	<10	45	<1	<10	0.91	57	49	4.92	1.11	2.88	0.31	0.018	<10	8	<10
24439	1.0	1.2	578	92	<2	409	30	98	3.60	<10	106	<1	<10	0.76	37	181	3.96	0.99	3.22	0.23	0.010	<10	9	<10
24440	0.5	0.5	1530	295	<2	1670	5	26	5.67	<10	17	<1	<10	2.80	57	153	3.20	0.03	3.14	0.31	0.002	<10	3	<10
24441	2.3	1.8	1270	42	<2	1110	65	41	5.65	<10	54	<1	<10	3.25	59	200	4.13	0.34	0.94	0.48	0.013	<10	3	<10

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24412	12	0.09	14	< 10	5	4	0.120
24413	16	0.10	21	< 10	6	3	0.108
24414	14	0.09	57	< 10	7	2	0.218
24415	20	0.05	25	< 10	7	2	0.547
24416	77	0.01	9	< 10	< 1	< 1	0.108
24417	98	0.03	24	< 10	< 1	< 1	0.098
24418	85	0.02	16	< 10	< 1	< 1	0.446
24419	100	0.03	24	< 10	1	< 1	0.174
24420	63	0.02	33	< 10	< 1	2	0.477
24421	66	0.03	23	< 10	< 1	< 1	0.082
24422	83	0.03	28	< 10	< 1	< 1	0.883
24423	80	0.03	29	< 10	< 1	1	1.598
24424	64	0.03	30	< 10	< 1	1	0.815
24425	44	0.02	26	< 10	< 1	3	1.939
24426	52	0.03	36	< 10	1	2	2.302
24427	38	0.04	35	< 10	2	2	1.425
24428	28	0.05	51	< 10	2	2	0.916
24429	5	0.07	67	< 10	1	2	1.152
24430	1	< 0.01	< 1	< 10	< 1	3	0.019
24431	2	0.08	55	< 10	2	2	0.906
24432	2	0.08	34	< 10	2	2	0.348
24433	2	0.08	43	< 10	3	2	0.342
24434	2	0.10	60	< 10	3	2	0.421
24435	6	0.12	66	< 10	2	2	1.034
24436	4	0.13	48	< 10	3	2	0.829
24437	6	0.15	79	< 10	1	2	0.829
24438	14	0.13	82	< 10	2	2	1.476
24439	12	0.12	74	< 10	2	2	0.696
24440	60	0.02	31	< 10	< 1	1	0.458
24441	44	0.04	32	< 10	1	2	1.790

Activation Laboratories Ltd. Report: A08-3064

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.9	3.2	1160	852	15	33	576	516	0.38	357	178	<1	1440	0.83	8	6	23.5	0.03	0.14	0.06	0.040	76	1	27
GXR-1 Cert	31.0	3.3	1110	852	18	41	730	760	3.52	427	750	1	1380	0.96	8	12	23.6	0.05	0.22	0.05	0.065	122	2	54
GXR-4 Meas	3.3	0.8	644.0	142	322	40	40	57	3.00	96	24	1	16	0.97	15	54	3.29	1.34	1.68	0.13	0.114	<10	7	<10
GXR-4 Cert	4.0	0.9	662.0	156	310	42	62	73	7.20	98	1640	2	16	1.01	15	64	3.09	4.01	1.69	0.66	0.120	5	8	6
GXR-2 Meas	19.7	5.3	88	1120	<2	19	797	593	3.97	14	985	1	<10	0.83	11	27	2.22	0.57	0.66	0.25	0.059	29	5	<10
GXR-2 Cert	17.0	4.1	76	1037	2	21	890	530	16.50	25	2240	2	1	0.93	9	36	1.86	1.37	0.85	0.56	0.105	49	7	2
GXR-6 Meas	0.3	1.6	74	1070	<2	26	96	124	8.06	217	873	<1	<10	0.17	16	85	5.36	0.95	0.44	0.16	0.032	<10	23	<10
GXR-6 Cert	1.3	1.0	66	1007	2	27	101	118	17.70	330	1300	1	0	0.18	14	96	5.58	1.87	0.61	0.10	0.035	4	28	2
OREAS 13P Meas			2570				2120										5.34							
OREAS 13P Cert			2500				2261										7.58							
24414 Orig	0.5	1.1	391	516	<2	124	19	102	4.52	<10	34	<1	<10	1.64	22	348	4.65	0.30	3.65	0.10	0.012	<10	10	<10
24414 Dup	0.6	1.3	371	514	<2	125	20	96	4.43	<10	34	<1	<10	1.64	23	348	4.66	0.29	3.65	0.10	0.012	<10	10	<10
24427 Orig	3.2	1.3	2610	61	<2	503	50	38	4.62	<10	63	<1	<10	2.73	44	222	2.67	0.21	0.89	0.62	0.016	<10	2	<10
24427 Dup	3.2	1.3	2610	59	<2	498	48	40	4.66	<10	65	<1	<10	2.69	41	214	2.69	0.21	0.89	0.60	0.016	<10	2	<10
24441 Orig	2.4	1.8	1310	42	<2	1120	69	42	5.85	<10	42	<1	<10	3.33	71	206	4.28	0.35	0.98	0.49	0.014	<10	3	<10
24441 Dup	2.2	1.6	1230	42	<2	1060	60	40	5.44	<10	65	<1	<10	3.17	57	182	3.99	0.33	0.82	0.46	0.013	<10	3	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	178		76	183	23	16	0.204
GXR-1 Cert	275		80	164	32	38	0.257
GXR-4 Meas	69		84	14	12	10	1.792
GXR-4 Cert	221		87	31	14	186	1.770
GXR-2 Meas	85		53	< 10	12	10	0.038
GXR-2 Cert	180		52	2	17	289	0.031
GXR-6 Meas	31		181	< 10	6	7	0.016
GXR-6 Cert	35		186	2	14	110	0.016
OREAS 13P Meas							
OREAS 13P Cert							
24414 Orig	14	0.05	57	< 10	7	2	0.200
24414 Dup	15	0.05	57	< 10	7	2	0.233
24427 Orig	37	0.04	36	< 10	2	2	1.431
24427 Dup	38	0.04	36	< 10	2	2	1.418
24441 Orig	44	0.04	32	< 10	1	2	1.849
24441 Dup	44	0.04	31	< 10	1	2	1.730
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 23-Jun-08

Invoice No.: A08-3462

Invoice Date: 11-Jul-08

Your Reference: 22596

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

90 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3462**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3462

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
27451	< 0.2	< 0.5	61	94	< 2	140	< 2	14	2.47	< 10	76	< 1	< 10	1.39	20	178	1.59	0.42	1.69	0.21	0.059	< 10	2	< 10
27452	< 0.2	< 0.5	30	163	6	84	< 2	32	3.44	< 10	105	< 1	< 10	1.41	18	269	3.50	1.04	2.62	0.23	0.026	< 10	5	< 10
27453	< 0.2	< 0.5	28	198	< 2	34	< 2	18	1.23	< 10	56	< 1	< 10	1.11	13	62	2.08	0.22	1.23	0.14	0.067	< 10	8	< 10
27454	< 0.2	< 0.5	136	316	< 2	38	< 2	34	2.05	< 10	190	< 1	< 10	1.28	27	68	4.11	0.53	1.63	0.16	0.051	< 10	10	< 10
27455	< 0.2	< 0.5	126	372	6	65	< 2	35	1.96	< 10	84	< 1	< 10	1.44	28	82	3.96	0.30	1.66	0.13	0.042	< 10	8	< 10
27456	< 0.2	0.6	232	283	< 2	18	3	27	2.18	< 10	48	< 1	< 10	1.61	29	41	5.08	0.17	0.93	0.22	0.111	< 10	8	< 10
27457	< 0.2	0.6	44	359	< 2	12	< 2	32	2.39	< 10	46	< 1	< 10	1.81	22	52	7.32	0.22	1.04	0.24	0.115	< 10	10	< 10
27458	< 0.2	< 0.5	44	298	< 2	14	< 2	29	2.31	< 10	48	< 1	< 10	1.78	24	47	7.32	0.28	0.97	0.28	0.113	< 10	10	< 10
27459	< 0.2	0.6	43	273	< 2	11	3	30	1.79	< 10	73	< 1	< 10	1.37	20	39	5.66	0.30	1.00	0.20	0.121	< 10	9	< 10
27460	< 0.2	< 0.5	3	10	< 2	< 1	< 2	1	0.03	< 10	7	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.01	0.004	< 10	< 1	< 10
27534	< 0.2	< 0.5	23	147	< 2	184	< 2	19	4.13	< 10	12	< 1	< 10	2.52	21	128	1.77	0.93	2.04	0.18	0.009	< 10	2	< 10
27535	< 0.2	< 0.5	66	167	< 2	227	< 2	19	4.57	< 10	13	< 1	< 10	3.12	25	145	2.07	0.02	2.12	0.22	0.007	< 10	3	< 10
27536	< 0.2	< 0.5	67	247	< 2	193	< 2	18	6.16	< 10	11	< 1	< 10	4.56	23	192	2.47	0.02	2.11	0.30	0.006	< 10	3	< 10
27537	< 0.2	< 0.5	38	125	< 2	116	< 2	12	5.75	< 10	16	< 1	< 10	3.75	16	120	1.50	0.03	1.48	0.38	0.004	< 10	2	< 10
27538	< 0.2	< 0.5	34	72	< 2	28	< 2	7	0.68	< 10	14	< 1	< 10	4.88	5	112	0.66	0.01	0.66	0.67	0.10	< 10	2	< 10
27539	< 0.2	< 0.5	86	114	< 2	72	< 2	9	5.82	< 10	27	< 1	< 10	3.63	12	211	1.19	0.06	1.03	0.62	0.003	< 10	2	< 10
27540	0.6	< 0.5	1650	300	< 2	1650	5	25	5.99	< 10	19	< 1	< 10	2.90	59	139	3.50	0.03	3.31	0.32	0.003	< 10	3	< 10
27541	< 0.2	< 0.5	174	93	< 2	62	3	10	7.61	< 10	13	< 1	< 10	6.48	9	116	0.92	0.01	0.76	0.69	0.006	< 10	2	< 10
27542	< 0.2	< 0.5	11	58	< 2	24	3	8	6.31	< 10	13	< 1	< 10	4.28	4	109	0.57	0.02	0.55	0.63	0.002	< 10	2	< 10
27543	< 0.2	< 0.5	64	56	< 2	22	4	4	5.74	< 10	12	< 1	< 10	4.20	4	98	0.49	0.01	0.45	0.56	0.005	< 10	2	< 10
27520	0.9	< 0.5	1680	30*	< 2	1650	< 2	26	5.95	< 10	18	< 1	< 10	2.92	60	140	3.51	0.03	3.32	0.32	0.002	< 10	3	< 10
27521	< 0.2	< 0.5	53	139	< 2	196	< 2	25	3.69	< 10	6	< 1	< 10	1.66	27	127	2.00	< 0.01	2.59	0.11	0.008	< 10	1	< 10
27522	< 0.2	< 0.5	14	121	< 2	186	< 2	23	3.67	< 10	7	< 1	< 10	1.87	26	110	1.85	< 0.01	2.62	0.11	0.014	< 10	1	< 10
27523	< 0.2	< 0.5	46	157	< 2	232	< 2	26	3.71	< 10	6	< 1	< 10	1.63	30	136	2.23	< 0.01	2.78	0.12	0.007	< 10	2	< 10
27524	< 0.2	< 0.5	21	134	< 2	182	< 2	24	3.72	< 10	6	< 1	< 10	1.83	25	96	1.84	< 0.01	2.36	0.11	0.008	< 10	1	< 10
27525	< 0.2	< 0.5	126	115	< 2	169	2	22	3.73	< 10	7	< 1	< 10	1.88	25	103	1.77	< 0.01	2.29	0.12	0.020	< 10	1	< 10
27528	< 0.2	< 0.5	44	116	< 2	176	< 2	21	3.40	< 10	6	< 1	< 10	1.79	24	118	1.76	< 0.01	2.31	0.12	0.011	< 10	1	< 10
27527	< 0.2	< 0.5	55	117	< 2	192	< 2	23	4.01	< 10	7	< 1	< 10	2.10	26	135	1.93	< 0.01	2.51	0.13	0.018	< 10	1	< 10
27529	< 0.2	< 0.5	14	126	< 2	222	2	25	4.35	< 10	7	< 1	< 10	1.94	30	163	2.20	< 0.01	2.84	0.12	0.013	< 10	1	< 10
27529	< 0.2	< 0.5	66	149	< 2	202	< 2	26	7.21	< 10	54	< 1	< 10	4.18	26	163	2.40	0.10	2.44	0.24	0.010	< 10	2	< 10
27602	0.9	0.7	567	94	< 2	87	4	28	6.37	< 10	147	< 1	< 10	3.66	16	260	2.00	0.46	1.64	0.36	0.007	< 10	4	< 10
27603	0.9	0.5	581	125	< 2	79	2	29	3.21	< 10	172	< 1	< 10	9.13	17	176	2.48	0.81	2.07	0.21	0.007	< 10	4	< 10
27604	0.3	0.5	252	54	< 2	136	9	9	10.0	< 10	71	< 1	< 10	7.18	18	163	1.02	0.13	0.51	0.59	0.006	< 10	1	< 10
27605	< 0.2	< 0.5	139	73	< 2	101	8	11	8.30	< 10	28	< 1	< 10	5.57	13	115	0.97	0.09	0.59	0.62	0.006	< 10	2	< 10
27606	0.5	< 0.5	265	60	< 2	94	7	11	7.15	< 10	20	< 1	< 10	5.13	13	97	0.83	0.06	0.48	0.56	0.008	< 10	1	< 10
27607	< 0.2	< 0.5	94	71	< 2	57	11	9	6.21	< 10	13	< 1	< 10	4.68	9	97	0.70	0.03	0.47	0.53	0.010	< 10	2	< 10
27608	1.5	0.7	1010	54	< 2	224	10	14	6.63	< 10	13	< 1	< 10	4.56	25	81	1.21	0.03	0.39	0.56	0.006	< 10	2	< 10
27609	0.4	< 0.5	268	50	< 2	88	6	9	6.74	< 10	22	< 1	< 10	4.59	11	110	0.72	0.06	0.49	0.58	0.009	< 10	2	< 10
27610	< 0.2	< 0.5	3	10	< 2	< 1	< 2	1	0.03	< 10	7	< 1	< 10	0.04	< 1	3	0.04	< 0.01	0.02	0.01	0.003	< 10	< 1	< 10
27611	0.3	< 0.5	195	52	< 2	97	8	7	6.98	< 10	19	< 1	< 10	5.03	12	73	0.64	0.03	0.38	0.55	0.009	< 10	1	< 10
27612	0.4	< 0.5	360	66	< 2	223	4	11	8.02	< 10	24	< 1	< 10	5.27	19	217	1.04	0.07	0.48	0.80	0.005	< 10	1	< 10
27613	< 0.2	< 0.5	190	69	< 2	81	7	10	6.91	< 10	20	< 1	< 10	5.01	10	182	0.86	0.05	0.43	0.72	0.012	< 10	2	< 10
27614	< 0.2	< 0.5	146	52	< 2	73	5	6	7.94	< 10	16	< 1	< 10	5.44	9	86	0.57	0.02	0.30	0.76	0.015	< 10	1	< 10
27615	0.2	< 0.5	158	55	< 2	69	4	8	7.45	< 10	15	< 1	< 10	5.51	9	106	0.60	0.02	0.36	0.65	0.006	< 10	2	< 10
27616	< 0.2	< 0.5	72	38	< 2	95	4	5	7.48	< 10	16	< 1	< 10	5.58	7	87	0.49	0.02	0.29	0.61	0.004	< 10	1	< 10
27597	< 0.2	< 0.5	63	55	< 2	48	4	7	8.05	< 10	14	< 1	< 10	6.04	6	63	0.53	0.01	0.35	0.55	0.006	< 10	1	< 10
27618	< 0.2	< 0.5	108	49	< 2	46	6	5	8.89	< 10	26	< 1	< 10	6.76	6	100	0.48	0.02	0.30	0.49	0.007	< 10	1	< 10
27619	0.6	< 0.5	343	84	< 2	80	4	28	4.73	< 10	151	< 1	< 10	2.55	13	384	2.03	0.80	1.87	0.32	0.008	< 10	5	< 10
27600	1.0	1.1	8090	234	< 2	> 10000	4	39	0.60	< 10	11	< 1	< 10	0.35	555	30	32.0	0.11	0.15	0.06	0.046	< 10	3	< 10
27601	0.5	0.5	337	67	2	28	< 2	21	2.01	< 10	43	< 1	< 10	0.57	10	74	1.05	0.15	0.78	0.17	0.013	< 10	2	< 10
27672	< 0.2	0.6	36	659	< 2	21	2	65	2.33	< 10	43	< 1	< 10	0.88	16	60	4.72	0.13	1.78	0.04	0.055	< 10	10	< 10
27673	< 0.2	0.5	40	536	< 2	12	2	55	2.10	< 10	20	< 1	< 10	1.66</										

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
27674	< 0.2	0.8	50	802	< 2	11	3	85	2.12	< 10	14	< 1	< 10	1.63	23	54	7.10	0.07	1.02	0.11	0.121	< 10	10	< 10
27675	< 0.2	< 0.5	3	501	< 2	6	3	54	2.32	< 10	82	< 1	< 10	0.41	5	66	3.49	0.75	1.70	0.04	0.013	< 10	4	< 10
27676	< 0.2	< 0.5	1	467	3	4	3	43	2.00	< 10	34	1	< 10	0.19	4	73	3.22	0.14	1.88	0.02	0.013	< 10	2	< 10
27677	0.4	0.7	622	510	5	13	8	202	2.66	< 10	39	< 1	86	0.52	17	78	5.93	0.29	2.00	0.02	0.037	< 10	3	< 10
27678	1.0	0.9	886	486	11	10	8	291	2.65	< 10	60	< 1	12	0.45	50	81	4.86	0.36	1.43	0.03	0.007	< 10	3	< 10
27679	< 0.2	< 0.5	13	413	4	4	5	80	2.15	< 10	103	< 1	< 10	0.13	6	79	3.47	0.47	1.12	0.04	0.004	< 10	2	< 10
27680	< 0.2	< 0.5	3	10	< 2	< 1	< 2	3	0.03	< 10	8	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.01	0.004	< 10	< 1	< 10
27681	< 0.2	< 0.5	90	336	5	6	5	59	2.24	< 10	60	< 1	< 10	0.40	9	77	3.70	0.38	1.24	0.04	0.002	< 10	2	< 10
27643	17.7	17.6	> 10000	83	< 2	5720	11.9	670	2.66	< 10	10	< 1	< 10	1.50	220	73	24.7	0.53	0.29	0.19	0.009	< 10	< 1	10
27644	10.9	14.0	> 10000	196	< 2	3300	74	619	2.21	< 10	22	< 1	< 10	0.34	122	172	16.0	0.12	1.04	0.12	0.017	< 10	2	< 10
27645	6.3	112	3770	83	< 2	9270	47	5500	1.28	< 10	14	< 1	< 10	0.47	243	177	34.4	0.07	0.37	0.09	0.008	< 10	< 1	12
27646	14.2	15.0	> 10000	263	< 2	2730	160	614	3.71	403	35	< 1	< 10	1.52	134	162	15.3	0.29	1.24	0.16	0.004	< 10	3	< 10
27647	14.9	16.2	> 10000	310	< 2	1890	154	760	2.83	24	12	< 1	< 10	1.51	63	188	11.9	0.04	0.77	0.13	0.008	< 10	2	11
27648	6.8	2.6	5970	307	< 2	5440	86	135	1.85	51	11	< 1	< 10	0.62	1060	129	27.7	0.09	0.72	0.10	0.010	< 10	2	< 10
27649	12.6	4.8	> 10000	412	< 2	3770	97	355	1.74	38	16	< 1	< 10	0.59	321	129	19.6	0.09	0.80	0.05	0.014	< 10	2	12
27650	1.0	1.1	8810	232	< 2	> 10000	4	41	0.61	< 10	21	< 1	< 10	0.36	674	31	32.3	0.11	0.15	0.08	0.046	< 10	3	> 10
27651	10.6	6.5	7160	447	< 2	1540	73	525	1.67	15	8	< 1	< 10	1.11	204	119	11.3	0.05	1.26	0.03	0.026	< 10	3	33
27652	16.1	48.9	> 10000	453	< 2	1640	289	3750	1.66	61	13	< 1	< 10	1.27	162	107	11.6	0.12	1.41	0.07	0.036	< 10	6	47
27653	< 0.2	0.5	96	848	< 2	28	16	118	3.98	11	240	< 1	< 10	1.13	14	61	4.53	0.95	2.50	0.10	0.080	< 10	11	< 10
27654	< 0.2	0.6	81	790	< 2	19	19	105	4.21	14	241	< 1	< 10	1.43	15	58	5.20	0.86	2.38	0.16	0.080	< 10	10	< 10
27655	< 0.2	< 0.5	11	565	2	8	7	91	3.69	< 10	294	< 1	< 10	0.73	9	66	4.10	0.83	2.16	0.13	0.042	< 10	8	< 10
27656	< 0.2	< 0.5	88	623	< 2	9	12	171	3.63	< 10	315	< 1	< 10	0.82	12	47	5.75	0.98	2.47	0.10	0.071	< 10	10	< 10
27657	0.3	< 0.5	146	599	< 2	10	14	156	3.72	< 10	233	< 1	< 10	1.08	14	52	5.36	0.75	2.23	0.13	0.082	< 10	10	< 10
27658	< 0.2	0.6	129	472	< 2	10	20	239	3.94	< 10	136	< 1	< 10	1.57	15	43	6.33	0.64	2.40	0.10	0.076	< 10	9	> 10
27659	< 0.2	< 0.5	36	465	< 2	6	7	161	4.53	< 10	173	< 1	< 10	1.94	11	50	4.38	0.64	2.07	0.20	0.081	< 10	10	< 10
27670	0.6	< 0.5	1060	303	< 2	1690	< 2	28	5.62	< 10	18	< 1	< 10	2.93	60	140	3.67	0.03	3.33	0.31	0.003	< 10	3	< 10
27671	< 0.2	< 0.5	6	808	2	12	7	128	3.14	< 10	100	< 1	< 10	1.52	10	49	3.72	0.39	2.47	0.06	0.064	< 10	7	< 10
27662	< 0.2	< 0.5	26	357	< 2	6	17	166	5.11	< 10	234	< 1	< 10	1.93	12	62	4.76	1.05	2.18	0.27	0.076	< 10	10	< 10
27633	6.3	4.6	3820	60	< 2	1900	189	159	3.44	< 10	48	< 1	22	1.79	124	73	9.96	0.46	1.17	0.29	0.012	< 10	3	> 10
27634	6.4	2.4	6140	84	< 2	2260	86	218	1.78	< 10	24	< 1	< 10	1.38	142	55	11.0	0.10	0.63	0.11	0.022	< 10	2	> 10
27635	6.0	2.6	5210	43	< 2	6730	111	199	3.13	< 10	17	< 1	< 10	1.86	241	63	24.9	0.17	0.46	0.16	0.006	< 10	1	> 10
27636	10.8	4.7	8340	75	< 2	1780	218	275	4.34	< 10	21	< 1	< 10	2.74	86	161	11.2	0.10	0.44	0.32	0.012	< 10	1	< 10
27637	2.9	1.6	2220	40	2	2860	38	91	0.35	< 10	6	< 1	< 10	0.23	255	113	11.3	< 0.01	0.04	0.03	0.002	< 10	< 1	< 10
27638	18.1	3.6	8720	55	< 2	4580	68	199	1.22	< 10	4	< 1	< 10	0.87	1470	105	24.9	< 0.01	0.12	0.09	0.004	< 10	< 1	< 10
27639	18.4	7.8	> 10000	77	< 2	6210	116	322	3.07	< 10	6	< 1	< 10	1.97	373	72	22.9	< 0.01	0.21	0.14	0.016	< 10	< 1	< 10
27640	32.9	16.6	> 10000	84	< 2	3370	161	592	3.65	< 10	7	< 1	17	2.61	150	101	16.1	< 0.01	0.20	0.19	0.016	< 10	< 1	< 10
27641	14.3	11.0	> 10000	101	< 2	4860	154	446	3.16	< 10	10	< 1	< 10	1.93	153	89	20.2	0.03	0.32	0.20	0.020	< 10	< 1	< 10
27642	0.6	< 0.5	1640	301	< 2	1700	6	27	5.92	< 10	18	< 1	< 10	2.92	50	139	3.56	0.03	3.30	0.32	0.003	< 10	3	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27451	44	0.07	36	< 10	2	10	0.158
27462	31	0.12	96	< 10	3	6	0.081
27463	8	0.16	99	< 10	7	12	0.052
27464	6	0.16	129	< 10	8	6	0.268
27465	5	0.17	114	< 10	10	6	0.243
27466	27	0.12	60	< 10	15	4	0.824
27467	50	0.13	89	< 10	18	4	0.248
27468	48	0.11	101	< 10	17	4	0.208
27469	16	0.12	90	< 10	18	4	0.256
27460	1	< 0.01	< 1	< 10	< 1	4	0.016
27534	49	0.03	20	< 10	< 1	< 1	0.035
27535	67	0.03	20	< 10	< 1	< 1	0.099
27536	104	0.04	25	< 10	1	1	0.080
27537	77	0.02	14	< 10	< 1	< 1	0.053
27538	75	0.01	12	< 10	< 1	< 1	0.031
27539	77	0.02	18	< 10	< 1	< 1	0.097
27540	61	0.02	32	< 10	< 1	1	0.473
27641	89	0.02	14	< 10	< 1	< 1	0.066
27642	81	< 0.01	8	< 10	< 1	< 1	0.024
27643	81	0.01	8	< 10	< 1	< 1	0.031
27620	62	0.02	33	< 10	< 1	1	0.482
27621	50	0.02	15	< 10	< 1	< 1	0.019
27622	55	0.02	14	< 10	< 1	< 1	0.018
27623	40	0.02	18	< 10	< 1	< 1	0.048
27624	44	0.02	14	< 10	< 1	< 1	0.017
27626	44	0.02	14	< 10	< 1	< 1	0.033
27628	40	0.02	14	< 10	< 1	< 1	0.018
27627	50	0.02	15	< 10	< 1	< 1	0.021
27628	46	0.02	19	< 10	< 1	< 1	0.026
27629	147	0.04	22	< 10	< 1	< 1	0.096
27602	49	0.07	47	< 10	1	1	0.191
27603	23	0.08	33	< 10	2	2	0.196
27604	102	0.02	25	< 10	1	< 1	0.234
27605	99	0.03	18	< 10	< 1	< 1	0.136
27606	95	0.02	13	< 10	< 1	< 1	0.162
27607	89	0.02	12	< 10	< 1	< 1	0.088
27608	94	0.02	10	< 10	< 1	< 1	0.488
27609	93	0.02	14	< 10	< 1	< 1	0.126
27610	1	< 0.01	< 1	< 10	< 1	4	0.016
27611	99	0.02	10	< 10	< 1	< 1	0.154
27682	95	0.02	16	< 10	< 1	< 1	0.226
27683	92	0.02	20	< 10	1	< 1	0.120
27684	95	0.02	11	< 10	1	< 1	0.104
27685	89	0.02	11	< 10	< 1	< 1	0.106
27686	97	0.01	8	< 10	< 1	< 1	0.098
27697	90	0.02	10	< 10	< 1	< 1	0.079
27688	85	0.02	10	< 10	< 1	< 1	0.082
27699	35	0.07	52	< 10	2	2	0.123
27600	14	0.07	59	< 10	15	17	8.783
27601	14	0.05	14	< 10	3	2	0.155
27672	11	0.17	49	< 10	22	8	0.069
27673	25	0.13	65	< 10	17	4	0.112

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27674	21	0.13	92	< 10	19	4	0.137
27675	9	0.09	10	< 10	19	17	0.010
27676	5	0.07	3	< 10	31	17	0.006
27677	7	0.06	15	< 10	19	7	0.326
27678	10	0.08	14	< 10	18	8	0.228
27679	7	0.05	3	< 10	17	10	0.005
27680	1	< 0.01	< 1	< 10	< 1	4	0.017
27681	8	0.03	2	< 10	9	6	0.090
27643	23	< 0.01	51	< 10	< 1	7	6.076
27644	7	0.03	81	< 10	1	5	4.700
27645	7	0.02	91	17	< 1	9	5.911
27646	24	0.05	136	< 10	< 1	5	4.951
27647	21	0.03	94	< 10	1	4	4.992
27648	10	0.04	68	< 10	2	8	9.203
27649	9	0.04	65	181	2	5	6.890
27650	14	0.07	80	< 10	15	17	6.773
27651	5	0.04	41	11	2	4	5.077
27652	4	0.07	41	< 10	6	4	5.486
27683	21	0.24	89	< 10	12	3	0.064
27664	20	0.25	72	< 10	11	4	0.072
27665	13	0.17	39	< 10	11	5	0.077
27666	13	0.20	66	< 10	9	5	0.115
27667	13	0.18	74	< 10	8	5	0.211
27668	17	0.19	88	< 10	9	5	0.157
27669	23	0.15	73	< 10	8	5	0.057
27670	62	0.02	33	< 10	< 1	1	0.488
27671	11	0.17	99	< 10	18	8	0.012
27662	25	0.18	70	< 10	7	5	0.044
27633	12	0.08	119	< 10	1	4	4.359
27634	6	0.04	61	< 10	1	4	5.023
27635	22	0.03	132	< 10	< 1	7	4.422
27636	49	0.02	112	< 10	1	3	3.963
27637	4	< 0.01	10	< 10	< 1	3	3.120
27638	13	0.02	81	< 10	< 1	7	10.24
27639	20	< 0.01	41	< 10	< 1	6	4.873
27640	31	< 0.01	65	< 10	< 1	5	5.949
27641	26	0.01	55	< 10	< 1	5	7.420
27642	62	0.02	33	< 10	< 1	1	0.491

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	27.0	2.0	1170	753	15	36	848	534	0.32	369	254	<1	1440	0.78	9	6	24.8	0.02	0.13	0.06	0.034	80	1	27
GXR-1 Cert	31.0	3.0	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	0.5	6360	135	328	41	42	55	2.88	96	33	1	19	0.95	15	56	3.39	1.33	1.65	0.11	0.115	<10	7	<10
GXR-4 Cert	4.00	0.860	6920	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	17.3	4.0	78	980	<2	16	715	526	3.42	14	1200	1	<10	0.81	9	24	1.97	0.49	0.50	0.25	0.052	33	5	<10
GXR-2 Cert	17.0	4.0	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.8	76	1020	<2	25	93	119	7.50	231	827	<1	<10	0.15	15	82	5.46	0.84	0.41	0.14	0.031	<10	21	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2690			2340											6.15							
OREAS 13P Cert			2500			2280											7.58							
27538 Ong	< 0.2	< 0.5	65	253	< 2	192	< 2	19	6.13	< 10	10	< 1	< 10	4.57	23	193	2.44	0.02	2.05	0.29	0.006	< 10	3	< 10
27535 Dup	< 0.2	< 0.5	66	242	< 2	193	< 2	18	6.18	< 10	11	< 1	< 10	4.54	23	191	2.50	0.02	2.12	0.30	0.006	< 10	3	< 10
27526 Ong	< 0.2	< 0.5	46	116	< 2	177	4	21	3.42	< 10	6	< 1	< 10	1.81	24	116	1.76	< 0.01	2.28	0.12	0.011	< 10	1	< 10
27525 Dup	< 0.2	< 0.5	44	116	< 2	174	< 2	21	3.39	< 10	7	< 1	< 10	1.78	24	116	1.75	< 0.01	2.33	0.12	0.011	< 10	1	< 10
27611 Ong	0.3	< 0.5	200	43	< 2	95	6	7	6.55	< 10	18	< 1	< 10	4.91	11	66	0.62	0.03	0.35	0.55	0.009	< 10	1	< 10
27611 Dup	0.3	< 0.5	191	61	< 2	98	9	7	7.01	< 10	19	< 1	< 10	5.16	12	76	0.66	0.03	0.37	0.55	0.009	< 10	1	< 10
27675 Ong	< 0.2	< 0.5	3	506	2	6	3	54	2.26	< 10	82	< 1	< 10	0.41	6	57	3.50	0.25	1.70	0.04	0.013	< 10	4	< 10
27675 Dup	< 0.2	< 0.5	3	497	< 2	5	2	54	2.38	< 10	82	< 1	< 10	0.41	6	56	3.47	0.25	1.69	0.04	0.012	< 10	4	< 10
27689 Ong	< 0.2	0.8	36	456	< 2	7	7	157	4.49	< 10	175	< 1	< 10	1.92	11	51	4.30	0.62	2.04	0.20	0.080	< 10	10	< 10
27689 Dup	< 0.2	< 0.5	40	474	< 2	9	7	184	4.57	< 10	181	< 1	< 10	1.97	12	50	4.46	0.65	2.11	0.20	0.082	< 10	10	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	143		77	127	24	16	0.198
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	69		84	12	12	10	1.814
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	89		46	< 10	10	12	0.033
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	27		175	< 10	6	13	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
27535 Orig	104	0.04	25	< 10	1	1	0.079
27535 Dup	104	0.04	26	< 10	1	1	0.080
27525 Orig	41	0.02	14	< 10	< 1	< 1	0.017
27525 Dup	40	0.02	14	< 10	< 1	< 1	0.018
27611 Orig	96	0.02	10	< 10	< 1	< 1	0.152
27611 Dup	103	0.02	10	< 10	< 1	< 1	0.156
27675 Orig	9	0.06	10	< 10	19	17	0.010
27675 Dup	9	0.09	10	< 10	19	17	0.010
27669 Orig	23	0.18	72	< 10	8	5	0.055
27669 Dup	24	0.17	74	< 10	8	5	0.060
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 23-Jun-08
Invoice No.: A08-3462 Additional
Invoice Date: 09-Dec-08
Your Reference: 22596

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

90 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3462 Additiona**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Analyte Symbol	Cu	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FJS- Na2O2	AR-ICP	AR-ICP
27635		4960	5510
27636		8740	1930
27637		2430	3520
27638		7580	4540
27639	1.51	> 10000	5560
27640			
27641	1.49	> 10000	4810
27642		1680	1720

Quality Control

Analyte Symbol	Cu	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FUS- NiZOC2	AR-ICP	AR-ICP

GXR-1 Meas		1030	26
GXR-1 Cert		1110	41.0
MP-1a Meas	1.45		
MP-1a Cert	1.44		
DNC-1 Meas	0.012		
DNC-1 Cert	0.00950		
GXR-4 Meas		6530	46
GXR-4 Cert		6620	42.0
GXR-2 Meas		85	16
GXR-2 Cert		76.0	21.6
KC-1A Meas	0.680		
KC-1A Cert	0.629		
CHR-PT+ Meas	0.049		
CHR-PT+ Cert	0.038		
CZN-3 Meas	0.711		
CZN-3 Cert	0.686		
GXR-6 Meas		74	20
GXR-6 Cert		66.0	27.0
OCCU-1C Meas	25.6		
OCCU-1C Cert	26.6		
OREAS 13P Meas		2420	2360
OREAS 13P Cert		2500	2260
DTS-2b Meas	< 0.005		
DTS-2b Cert	0.000300		
Method Blank Method Blank		< 1	< 1
Method Blank Method Blank		< 1	< 1
Method Blank Method Blank		< 1	< 1
Method Blank Method Blank	< 0.005		
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Date Submitted: 23-Jun-08

Invoice No.: A08-3470

Invoice Date: 16-Jul-08

Your Reference: 22597

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

89 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3470**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is fluid and cursive, written over a horizontal dotted line.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3470

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27523	0.9	0.9	664	239	< 2	425	31	76	4.65	< 10	27	< 1	< 10	3.38	33	129	3.52	0.42	1.84	0.50	0.007	< 10	4	< 10
27524	1.5	1.5	1260	453	< 2	600	41	150	5.43	< 10	44	2	< 10	2.61	47	340	6.03	0.99	3.48	0.36	0.011	< 10	12	64
27525	2.5	1.8	2190	288	< 2	939	38	132	4.67	< 10	28	< 1	< 10	3.28	48	181	5.45	0.37	1.88	0.58	0.008	< 10	5	< 10
27526	3.5	5.7	2070	272	< 2	777	20	143	2.01	< 10	11	< 1	< 10	1.27	44	157	4.44	0.33	0.75	0.12	0.008	< 10	5	70
27527	4.5	4.7	2450	344	< 2	562	34	180	2.45	< 10	13	2	11	1.46	41	233	4.54	0.84	1.88	0.16	0.024	< 10	6	73
27528	3.9	3.8	2590	185	< 2	2080	62	131	3.51	< 10	13	< 1	< 10	1.78	158	336	10.7	0.34	2.47	0.25	0.008	< 10	3	19
27529	3.3	8.1	1770	60	< 2	722	160	82	3.75	< 10	11	< 1	< 10	2.07	54	191	4.14	0.26	0.95	0.39	0.012	< 10	3	< 10
27530	< 0.2	< 0.5	3	13	< 2	< 1	0.03	< 10	10	< 1	< 10	< 1	< 10	0.63	< 1	< 2	0.09	0.01	0.02	0.02	0.04	< 10	< 1	< 10
27531	4.4	3.6	4200	57	< 2	1360	160	94	4.22	< 10	24	< 1	< 10	3.30	53	116	5.45	0.59	0.52	0.36	0.015	< 10	3	< 10
27532	2.9	4.4	2070	88	< 2	1290	132	88	2.68	< 10	25	< 1	< 10	2.21	89	91	6.40	0.09	0.81	0.21	0.019	< 10	5	< 10
27533	3.8	9.8	2520	775	< 2	8680	114	542	2.59	< 10	12	< 1	< 10	0.52	74	117	32.8	0.11	2.88	0.02	0.038	< 10	8	31
27534	10.4	12.6	7540	933	< 2	3700	191	559	2.84	< 10	13	< 1	< 10	0.33	112	163	21.6	0.13	2.85	0.03	0.007	< 10	6	29
27535	5.2	15.1	4560	796	< 2	4660	82	1050	2.14	< 10	7	< 1	< 10	0.18	245	113	24.9	0.03	2.05	0.02	0.008	< 10	6	15
27536	3.7	3.5	2390	407	< 2	7230	116	240	1.08	< 10	6	< 1	< 10	0.17	737	135	28.6	0.04	0.83	0.03	0.008	< 10	2	< 10
27537	8.2	9.8	5540	784	< 2	3810	175	737	2.47	< 10	9	< 1	< 10	0.77	341	95	23.0	0.13	2.33	0.02	0.024	< 10	7	16
27538	7.9	20.4	4110	976	< 2	2440	249	1430	2.87	< 10	7	< 1	< 10	2.89	637	89	23.9	0.04	2.63	0.01	0.020	< 10	12	16
27539	0.2	0.7	125	600	< 2	64	20	92	2.72	< 10	71	< 1	< 10	1.04	16	79	5.09	0.35	2.48	0.03	0.063	< 10	6	< 10
27540	< 0.2	< 0.5	3	12	< 2	< 1	< 2	0.03	< 10	9	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.01	0.094	< 10	< 1	< 10	
27541	< 0.2	0.5	10	587	< 2	21	9	82	3.42	< 10	139	< 1	< 10	0.51	14	87	4.86	0.68	2.48	0.06	0.088	< 10	8	< 10
27542	< 0.2	0.8	66	755	< 2	53	12	92	3.68	< 10	104	< 1	< 10	0.74	22	78	6.13	0.52	2.81	0.05	0.079	< 10	9	< 10
27543	0.3	< 0.5	278	118	< 2	245	3	15	6.32	< 10	13	< 1	< 10	4.82	25	188	1.79	0.08	1.52	0.36	0.021	< 10	4	< 10
27543	0.4	< 0.5	471	82	< 2	144	6	14	7.95	< 10	10	< 1	< 10	5.55	12	234	1.13	0.02	1.03	0.66	0.003	< 10	3	< 10
27544	0.3	< 0.5	316	78	< 2	181	4	13	8.44	< 10	9	< 1	< 10	6.87	12	244	1.09	0.02	0.85	0.77	0.004	< 10	3	< 10
27545	< 0.2	< 0.5	207	99	< 2	199	5	14	7.62	< 10	10	< 1	< 10	5.71	15	271	1.16	0.04	0.95	0.66	0.080	< 10	3	< 10
27546	0.3	< 0.5	374	92	< 2	253	4	19	6.9C	< 10	23	< 1	< 10	4.59	25	173	1.84	0.15	1.8C	0.35	0.011	< 10	2	< 10
27547	< 0.2	< 0.5	180	100	< 2	194	4	17	6.48	< 10	36	< 1	< 10	4.44	22	226	1.86	0.24	1.85	0.33	0.020	< 10	3	< 10
27548	< 0.2	< 0.5	216	92	< 2	142	4	14	7.80	< 10	20	< 1	< 10	5.29	14	216	1.29	0.08	1.04	0.66	0.007	< 10	3	< 10
27549	< 0.2	< 0.5	119	110	< 2	80	4	11	9.27	< 10	20	< 1	< 10	6.42	10	235	1.17	0.02	0.68	0.96	0.007	< 10	3	< 10
27550	0.6	< 0.5	1960	330	< 2	1760	< 2	30	5.95	< 10	23	< 1	< 10	3.14	52	163	3.82	0.04	3.81	0.33	0.003	< 10	4	< 10
27551	0.3	< 0.5	315	93	< 2	191	5	14	10.1	< 10	25	< 1	< 10	6.80	12	285	1.19	0.04	0.84	1.08	0.007	< 10	3	< 10
27573	0.2	< 0.5	296	121	< 2	131	< 2	13	6.30	< 10	16	< 1	< 10	4.78	13	176	1.36	0.05	1.23	0.43	0.004	< 10	4	< 10
27574	1.2	0.5	1680	103	< 2	641	3	19	7.61	< 10	17	< 1	< 10	5.29	40	127	2.15	0.08	1.31	0.47	0.005	< 10	3	< 10
27575	0.4	< 0.5	335	90	< 2	172	5	12	9.25	< 10	13	< 1	< 10	6.66	15	172	1.13	0.01	0.74	0.77	0.005	< 10	3	< 10
27576	< 0.2	< 0.5	57	114	< 2	51	3	10	7.38	< 10	10	< 1	< 10	5.31	8	185	1.12	0.01	0.97	0.79	0.007	< 10	4	< 10
27577	< 0.2	< 0.5	89	140	< 2	105	3	16	7.15	< 10	12	< 1	< 10	5.21	14	181	1.57	0.05	1.43	0.47	0.008	< 10	4	< 10
27578	< 0.2	< 0.5	188	123	< 2	151	3	18	5.77	< 10	22	< 1	< 10	3.99	19	215	1.71	0.13	1.79	0.31	0.006	< 10	4	< 10
27579	0.2	< 0.5	248	153	< 2	198	< 2	19	5.38	< 10	27	< 1	< 10	3.87	23	418	2.05	0.16	2.08	0.31	0.007	< 10	3	< 10
27580	< 0.2	< 0.5	4	10	< 2	< 1	< 2	2	0.07	< 10	12	< 1	< 10	0.05	< 1	3	0.05	0.01	0.02	0.02	0.004	< 10	< 1	< 10
27581	< 0.2	< 0.5	241	121	< 2	292	2	17	7.07	< 10	14	< 1	< 10	6.03	26	166	1.84	0.06	1.63	0.37	0.007	< 10	3	< 10
27583	< 0.2	< 0.5	38	272	< 2	127	< 2	20	4.10	< 10	12	< 1	< 10	2.74	19	138	2.34	0.04	2.23	0.29	0.013	< 10	4	< 10
27584	< 0.2	< 0.5	20	404	< 2	103	< 2	30	4.01	< 10	10	< 1	< 10	2.45	21	268	3.23	0.03	2.85	0.20	0.005	< 10	4	< 10
27585	< 0.2	< 0.5	82	318	< 2	68	< 2	22	4.22	< 10	13	< 1	< 10	3.01	15	190	2.29	0.04	2.13	0.32	0.005	< 10	4	< 10
27586	< 0.2	< 0.5	85	458	< 2	102	< 2	28	4.32	< 10	8	< 1	< 10	3.74	21	270	3.43	0.02	2.97	0.12	0.004	< 10	5	< 10
27587	< 0.2	< 0.5	102	512	< 2	106	< 2	35	3.60	< 10	8	< 1	< 10	2.62	24	276	4.10	0.03	3.24	0.06	0.014	< 10	6	< 10
27588	< 0.2	< 0.5	347	487	< 2	84	< 2	28	2.92	< 10	13	< 1	< 10	2.82	42	95	4.54	0.08	2.22	0.09	0.073	< 10	5	< 10
27589	< 0.2	0.5	126	864	< 2	48	< 2	43	3.21	< 10	12	< 1	< 10	2.67	41	83	6.75	0.02	2.67	0.08	0.061	< 10	12	< 10
27590	0.6	0.6	1610	361	< 2	1730	7	27	5.72	< 10	22	< 1	< 10	3.03	52	168	3.77	0.04	3.65	0.32	0.003	< 10	3	< 10
27591	< 0.2	0.5	227	822	< 2	100	< 2	43	3.77	< 10	7	< 1	< 10	2.86	38	307	6.06	0.02	3.08	0.08	0.033	< 10	8	< 10
27592	< 0.2	< 0.5	35	622	< 2	127	< 2	39	4.32	< 10	10	< 1	< 10	3.98	25	460	4.96	0.05	3.17	0.16	0.007	< 10	8	< 10
27593	< 0.2	0.5	169	570	< 2	56	< 2	36	2.78	< 10	13	< 1	< 10	3.02	29	79	5.60	0.05	1.69	0.24	0.062	< 10	14	< 10
27594	< 0.2	0.5	123	584	< 2	39	< 2	39	2.41	< 10	24	< 1	< 10	2.68	31	72	6.12	0.10	1.60	0.22	0.061	< 10	15	< 10
27595	< 0.2	0.5	104	549	< 2	36	< 2	38	2.35	< 10	24	< 1	< 10	2.75	29	61	5.81	0.09	1.60	0.20	0.063	< 10	14	< 10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
27696	< 0.2	0.6	164	599	< 2	43	< 2	41	2.29	< 10	33	< 1	< 10	2.41	34	66	6.27	0.11	1.70	0.22	0.058	< 10	16	< 10
27697	< 0.2	0.6	89	597	< 2	37	< 2	44	2.61	< 10	37	< 1	< 10	2.21	32	72	6.46	0.16	1.96	0.20	0.067	< 10	14	< 10
27698	< 0.2	0.5	87	583	< 2	37	< 2	43	2.50	< 10	37	< 1	< 10	2.19	32	72	6.20	0.15	1.97	0.19	0.067	< 10	14	< 10
27699	< 0.2	0.5	165	565	< 2	53	3	49	2.57	< 10	20	< 1	< 10	2.17	41	71	6.26	0.09	1.74	0.16	0.059	< 10	13	< 10
27700	0.9	2.0	8960	300	< 2	> 10000	3	41	0.49	< 10	10	< 1	< 10	0.98	613	33	33.2	0.12	0.17	0.08	0.047	< 10	4	< 10
27701	< 0.2	1.0	124	618	< 2	56	< 2	52	2.83	< 10	19	< 1	< 10	2.17	33	56	7.35	0.13	2.15	0.15	0.061	< 10	13	< 10
27702	< 0.2	0.7	162	640	< 2	43	3	52	2.61	< 10	14	< 1	< 10	2.58	33	57	6.21	0.08	1.79	0.20	0.062	< 10	15	< 10
27703	< 0.2	< 0.5	130	617	< 2	42	< 2	51	2.65	< 10	13	< 1	< 10	2.78	30	66	6.91	0.06	1.70	0.21	0.062	< 10	14	< 10
27704	< 0.2	0.7	103	526	< 2	44	3	35	1.98	< 10	12	< 1	< 10	2.15	33	69	6.09	0.04	1.60	0.18	0.065	< 10	14	< 10
27705	< 0.2	0.6	111	535	< 2	44	< 2	32	2.26	< 10	10	< 1	< 10	2.12	31	72	6.86	0.05	1.69	0.20	0.062	< 10	14	< 10
27706	< 0.2	0.8	111	563	< 2	46	< 2	38	2.59	< 10	12	< 1	< 10	2.54	33	68	6.97	0.04	1.72	0.19	0.063	< 10	14	< 10
27707	< 0.2	0.7	340	615	< 2	50	3	39	2.46	< 10	12	< 1	< 10	2.52	38	73	6.58	0.05	1.80	0.19	0.064	< 10	15	< 10
27708	0.5	0.6	1360	542	< 2	60	4	35	2.59	< 10	11	< 1	< 10	2.12	48	66	6.46	0.04	1.84	0.16	0.069	< 10	13	< 10
27709	1.3	0.8	1470	238	< 2	385	19	55	5.13	< 10	14	< 1	< 10	3.51	50	146	2.91	0.04	1.78	0.42	0.018	< 10	4	< 10
27710	< 0.2	< 0.5	5	11	< 2	1	< 2	2	0.04	< 10	10	< 1	< 10	0.04	< 1	3	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10
27711	0.3	< 0.5	389	269	< 2	182	8	40	5.65	< 10	28	< 1	< 10	3.30	21	432	3.23	0.09	2.63	0.48	0.011	< 10	6	< 10
27712	< 0.2	< 0.5	44	219	< 2	13	4	38	3.00	< 10	216	< 1	< 10	0.43	10	95	2.66	0.29	2.32	0.12	0.015	< 10	7	< 10
27713	0.3	< 0.5	294	301	< 2	17	< 2	29	3.20	< 10	208	< 1	< 10	0.30	12	66	3.92	0.40	3.00	0.07	0.013	< 10	6	< 10
27714	0.3	< 0.5	339	383	2	36	3	34	3.37	< 10	107	< 1	< 10	0.49	16	92	4.59	0.16	3.39	0.09	0.016	< 10	8	< 10
27715	0.6	2.4	531	534	< 2	101	11	202	3.45	< 10	43	< 1	< 10	1.23	31	212	5.80	0.10	4.05	0.04	0.016	< 10	14	< 10
27716	0.2	0.8	128	334	< 2	152	12	62	6.34	< 10	26	< 1	< 10	4.21	21	366	3.27	0.07	2.71	0.50	0.006	< 10	5	< 10
27717	0.3	0.5	227	403	< 2	119	22	45	5.34	< 10	21	< 1	< 10	3.63	23	283	3.61	0.06	2.72	0.35	0.007	< 10	4	< 10
27718	< 0.2	1.0	22	449	< 2	115	11	77	5.35	< 10	15	< 1	< 10	3.62	20	334	3.67	0.03	3.20	0.35	0.009	< 10	6	< 10
27719	< 0.2	< 0.5	291	386	< 2	41	< 2	38	3.02	< 10	176	< 1	< 10	0.83	15	191	3.36	0.17	2.99	0.06	0.011	< 10	7	< 10
27720	0.6	< 0.5	1720	340	< 2	1810	6	29	6.38	< 10	24	< 1	< 10	3.20	56	165	3.88	0.04	3.73	0.36	0.003	< 10	4	< 10
27721	< 0.2	< 0.5	161	247	< 2	19	< 2	27	2.86	< 10	343	< 1	< 10	0.28	8	103	2.76	0.40	2.46	0.07	0.010	< 10	5	< 10
27722	0.3	0.8	547	266	< 2	20	6	48	3.01	< 10	253	< 1	< 10	0.27	9	89	3.24	0.40	2.75	0.07	0.015	< 10	6	< 10
27723	2.9	1.2	1920	275	< 2	142	10	57	3.67	< 10	67	< 1	< 10	0.71	26	171	4.40	0.17	3.28	0.15	0.014	< 10	7	< 10
27724	0.3	< 0.5	263	119	< 2	67	11	16	4.37	< 10	24	< 1	< 10	2.58	12	251	1.23	0.07	1.23	0.57	0.010	< 10	2	< 10
27725	1.1	< 0.5	690	121	< 2	101	20	24	6.02	< 10	34	< 1	< 10	3.59	15	297	1.56	0.12	1.61	0.66	0.013	< 10	3	< 10
27726	0.4	< 0.5	212	161	< 2	77	33	20	6.81	< 10	13	< 1	< 10	6.08	13	136	1.96	0.03	1.32	0.46	0.011	< 10	4	< 10
27727	< 0.2	< 0.5	86	339	< 2	389	7	57	2.94	< 10	10	< 1	< 10	1.14	47	119	3.83	0.03	3.99	0.09	0.010	< 10	4	< 10
27728	0.4	< 0.5	279	319	< 2	436	17	53	3.72	< 10	8	< 1	< 10	2.03	39	306	3.59	0.03	3.63	0.13	0.007	< 10	3	< 10
27729	1.4	< 0.5	836	211	< 2	324	78	33	6.81	< 10	12	< 1	< 10	4.86	22	266	2.04	0.03	1.85	0.41	0.008	< 10	4	< 10
27730	< 0.2	< 0.5	80	15	< 2	178	< 2	4	0.05	< 10	10	< 1	< 10	0.05	7	4	0.37	0.01	0.02	0.02	0.005	< 10	< 1	< 10
27731	1.7	< 0.5	1190	325	< 2	415	42	34	6.18	< 10	12	< 1	< 10	4.66	37	369	2.62	0.03	2.10	0.48	0.010	< 10	5	< 10
27732	0.4	< 0.5	360	281	< 2	146	29	25	4.63	< 10	12	< 1	< 10	3.73	16	246	1.76	0.02	1.61	0.39	0.006	< 10	4	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27623	89	0.05	32	< 10	< 1	1	0.747
27624	235	0.10	83	< 10	3	2	1.188
27625	90	0.05	38	< 10	1	2	1.301
27625	18	0.03	25	< 10	4	5	1.982
27627	19	0.05	36	< 10	3	5	1.539
27628	39	0.05	47	< 10	< 1	4	4.533
27628	30	0.05	29	< 10	2	2	1.946
27630	1	< 0.01	< 1	< 10	< 1	4	0.017
27631	24	0.04	36	< 10	2	3	2.907
27632	10	0.04	66	< 10	2	3	2.981
27653	2	0.12	82	< 10	5	7	5.841
27654	2	0.05	86	< 10	2	5	5.782
27655	1	0.08	74	< 10	3	5	7.436
27656	2	0.03	53	< 10	2	7	9.564
27657	3	0.12	83	< 10	8	7	7.943
27658	3	0.08	120	13	8	7	9.166
27659	4	0.19	50	< 10	21	9	0.179
27660	2	< 0.01	< 1	< 10	1	4	0.018
27661	9	0.21	83	< 10	19	8	0.032
27662	10	0.28	72	< 10	22	8	0.219
27662	82	0.05	28	< 10	2	< 1	0.190
27663	122	0.02	19	< 10	< 1	< 1	0.126
27664	129	0.02	20	< 10	< 1	< 1	0.115
27665	120	0.03	22	< 10	3	< 1	0.133
27665	84	0.04	22	< 10	1	< 1	0.188
27667	74	0.06	27	< 10	1	< 1	0.112
27668	108	0.04	24	< 10	< 1	< 1	0.108
27669	132	0.04	25	< 10	1	< 1	0.091
27690	88	0.02	37	< 10	< 1	1	0.408
27691	132	0.03	22	< 10	< 1	< 1	0.170
27673	97	0.03	21	< 10	< 1	< 1	0.093
27674	108	0.03	20	< 10	< 1	< 1	0.813
27675	146	0.03	21	< 10	< 1	< 1	0.181
27676	125	0.04	26	< 10	< 1	< 1	0.043
27677	105	0.05	30	< 10	1	< 1	0.062
27678	73	0.05	27	< 10	< 1	< 1	0.074
27679	86	0.05	33	< 10	< 1	< 1	0.101
27680	2	< 0.01	< 1	< 10	1	5	0.018
27681	97	0.03	21	< 10	< 1	< 1	0.209
27683	52	0.04	33	< 10	1	1	0.043
27684	30	0.04	36	< 10	1	1	0.023
27685	42	0.03	28	< 10	1	< 1	0.030
27686	14	0.04	41	< 10	1	1	0.032
27687	11	0.11	71	< 10	3	2	0.038
27688	24	0.25	129	< 10	12	4	0.478
27689	16	0.28	214	< 10	15	4	0.333
27690	66	0.02	36	< 10	< 1	2	0.477
27691	13	0.18	136	< 10	8	3	0.218
27692	28	0.10	73	< 10	4	2	0.046
27693	33	0.21	170	< 10	15	4	0.214
27694	23	0.21	171	< 10	15	5	0.179
27695	10	0.18	169	< 10	15	4	0.160

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27696	16	0.21	223	< 10	15	5	0.219
27697	16	0.23	164	< 10	16	5	0.162
27698	16	0.23	164	< 10	16	5	0.162
27699	13	0.21	160	< 10	14	4	0.494
27700	16	0.11	61	< 10	16	18	8.373
27701	15	0.20	181	< 10	13	4	0.310
27702	18	0.20	171	< 10	14	4	0.327
27703	18	0.19	183	< 10	15	4	0.242
27704	11	0.18	206	< 10	14	4	0.210
27705	16	0.17	196	< 10	13	4	0.185
27706	23	0.17	183	< 10	14	4	0.170
27707	26	0.18	190	< 10	15	5	0.528
27708	27	0.20	148	< 10	13	5	1.571
27709	51	0.03	23	< 10	2	1	0.511
27710	2	< 0.01	< 1	< 10	1	5	0.021
27711	49	0.05	60	< 10	4	2	0.166
27712	30	0.05	18	< 10	5	4	0.059
27713	22	0.07	21	< 10	11	6	0.056
27714	48	0.08	38	< 10	12	5	0.121
27715	9	0.15	109	< 10	12	3	0.423
27716	54	0.07	83	< 10	4	1	0.067
27717	44	0.04	46	< 10	4	2	0.084
27718	34	0.05	46	< 10	5	1	0.028
27719	18	0.08	28	< 10	13	4	0.085
27720	70	0.02	36	< 10	< 1	1	0.502
27721	20	0.06	14	< 10	8	3	0.029
27722	18	0.08	19	< 10	9	4	0.164
27723	17	0.05	34	< 10	7	4	0.035
27724	56	0.03	41	< 10	5	3	0.019
27725	72	0.03	36	< 10	4	2	0.113
27726	80	0.03	26	< 10	1	< 1	0.064
27727	8	0.08	36	< 10	1	1	0.109
27728	26	0.03	26	< 10	< 1	1	0.195
27729	118	0.03	23	< 10	1	< 1	0.192
27730	2	< 0.01	1	< 10	1	5	0.136
27731	104	0.05	36	< 10	2	1	0.302
27732	64	0.04	31	< 10	1	< 1	0.088

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.9	3.1	1220	876	15	36	888	619	0.31	376	221	<1	1490	0.82	17	8	25.3	0.03	0.14	0.05	0.038	89	1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.5	0.5	6250	141	350	42	45	59	2.45	98	29	1	22	0.96	17	60	3.50	1.39	1.74	0.11	0.121	<10	7	<10
GXR-4 Cert	4.00	0.600	6020	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.2	4.5	89	1050	<2	18	786	550	3.12	15	1020	1	<10	0.75	11	26	2.27	0.57	0.55	0.20	0.059	40	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.7	66	1070	<2	25	97	118	6.45	223	895	<1	<10	0.16	17	87	5.49	0.87	0.42	0.10	0.031	<10	23	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.9	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2940		2410												6.40							
OREAS 13P Cert			2500		2280												7.58							
27654 Ong	9.6	12.6	7520	335	<2	3730	99	511	2.84	<10	13	<1	<10	0.33	109	184	21.7	0.13	2.98	0.03	0.007	<10	6	28
27654 Dup	11.2	12.6	7560	931	<2	3670	103	507	2.84	<10	12	<1	<10	0.33	115	162	21.5	0.13	2.85	0.03	0.007	<10	6	30
27656 Ong	0.3	<0.5	373	95	<2	263	4	20	6.60	<10	24	<1	<10	4.62	25	176	1.87	0.15	1.82	0.36	0.011	<10	2	<10
27656 Dup	0.4	<0.5	376	89	<2	262	4	18	6.60	<10	23	<1	<10	4.55	25	171	1.82	0.15	1.79	0.36	0.011	<10	2	<10
27651 Ong	<0.2	<0.5	245	120	<2	295	2	17	7.21	<10	14	<1	<10	5.03	26	155	1.85	0.06	1.64	0.38	0.007	<10	3	<10
27651 Dup	<0.2	<0.5	237	121	<2	289	3	18	6.83	<10	14	<1	<10	5.03	25	155	1.82	0.06	1.62	0.36	0.007	<10	3	<10
27705 Ong	<0.2	0.6	114	538	<2	45	2	33	2.26	<10	10	<1	<10	2.13	31	81	5.85	0.05	1.68	0.20	0.063	<10	14	<10
27705 Dup	<0.2	0.6	108	531	<2	44	<2	32	2.23	<10	10	<1	<10	2.10	30	82	5.85	0.05	1.68	0.20	0.062	<10	14	<10
27719 Ong	<0.2	<0.5	288	390	<2	42	3	38	3.03	<10	177	<1	<10	0.85	15	190	3.40	0.18	3.01	0.08	0.011	<10	8	<10
27719 Dup	0.2	<0.5	294	382	<2	40	<2	38	3.01	<10	175	<1	<10	0.82	15	191	3.31	0.17	2.97	0.06	0.012	<10	7	<10
27732 Ong	0.4	<0.5	346	254	<2	141	28	24	4.41	<10	10	<1	<10	3.64	16	234	1.73	0.02	1.57	0.37	0.006	<10	4	<10
27732 Dup	0.4	<0.5	374	268	<2	150	30	26	4.85	<10	13	<1	<10	3.82	17	259	1.80	0.02	1.66	0.40	0.006	<10	4	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	15.7		76	190	23	14	0.193
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	69		67	14	12	9	1.874
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77
GXR-2 Meas	65		51	< 10	11	12	0.036
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	30		176	< 10	6	11	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
27654 Orig	2	0.06	87	< 10	2	5	5.783
27654 Dup	2	0.06	86	< 10	3	5	5.781
27686 Orig	83	0.04	22	< 10	1	< 1	0.190
27686 Dup	84	0.04	22	< 10	1	< 1	0.184
27681 Orig	98	0.03	21	< 10	< 1	< 1	0.208
27681 Dup	96	0.03	21	< 10	< 1	< 1	0.209
27705 Orig	16	0.17	197	< 10	13	4	0.185
27705 Dup	16	0.17	195	< 10	13	4	0.186
27719 Orig	19	0.08	29	< 10	14	4	0.085
27719 Dup	18	0.08	26	< 10	13	4	0.086
27732 Orig	64	0.04	30	< 10	1	< 1	0.085
27732 Dup	65	0.04	32	< 10	1	< 1	0.088
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 23-Jun-08
Invoice No.: A08-3470 Repeats
Invoice Date: 27-Nov-08
Your Reference: 22597

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

89 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT A08-3470 Repeats

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Analyte Symbol	Cu	Ni
Unit Symbol	ppm	ppm
Detection Limit	1	1
Analysis Method	AR-ICP	AR-ICP
27623	659	460
27624	1240	662
27625	2060	1060

Quality Control

Analyte Symbol	Cu	Ni
Unit Symbol	ppm	ppm
Detection Limit	1	1
Analysis Method	AR-ICP	AR-ICP
GXR-1 Meas	1030	28
GXR-1 Cert	1110	41.0
GXR-4 Meas	5530	40
GXR-4 Cert	5520	42.0
GXR-2 Meas	85	19
GXR-2 Cert	76.0	21.0
GXR-6 Meas	74	20
GXR-6 Cert	66.0	27.0
OREAS 13P Meas	2420	2350
OREAS 13P Cert	2500	2260
27624 Orig	1310	685
27624 Dup	1170	618
Method Blank Method Blank	< 1	< 1
Method Blank Method Blank	< 1	< 1
Method Blank Method Blank	< 1	< 1



Date Submitted: 23-Jun-08

Invoice No.: A08-3468

Invoice Date: 21-Jul-08

Your Reference: 22602

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

82 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3468**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3468

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27733	< 0.2	< 0.5	133	245	< 2	82	21	23	4.66	< 10	12	< 1	< 10	3.58	11	221	1.46	0.03	1.37	0.41	0.019	< 10	4	< 10
27734	0.4	< 0.5	282	198	< 2	101	41	26	6.82	< 10	14	< 1	< 10	4.83	13	168	1.36	0.02	1.22	0.73	0.012	< 10	4	< 10
27735	1.8	< 0.5	899	182	< 2	178	53	37	5.90	< 10	9	< 1	< 10	3.96	20	188	1.71	0.02	1.73	0.48	0.004	< 10	3	< 10
27736	1.6	0.8	844	219	< 2	191	74	53	5.27	< 10	11	< 1	< 10	3.61	24	144	1.99	0.03	1.82	0.46	0.006	< 10	3	< 10
27737	1.7	1.7	832	368	< 2	364	56	96	3.32	< 10	6	< 1	< 10	2.12	35	173	3.00	0.02	2.60	0.14	0.007	< 10	3	< 10
27738	2.8	2.6	1430	267	< 2	1000	76	112	4.03	< 10	8	< 1	< 10	2.55	89	282	4.39	0.02	2.85	0.17	0.005	< 10	3	< 10
27739	2.5	2.5	1590	338	< 2	695	56	120	3.45	< 10	8	< 1	< 10	2.22	54	206	3.87	0.02	2.84	0.18	0.008	< 10	3	< 10
27740	0.6	0.5	1680	328	< 2	1760	2	27	6.25	< 10	22	< 1	< 10	3.11	57	160	3.83	0.04	3.66	0.34	0.003	< 10	3	< 10
27741	1.6	2.1	1090	311	< 2	662	50	136	3.09	< 10	8	< 1	< 10	1.79	52	221	3.85	0.02	2.73	0.14	0.007	< 10	3	< 10
27742	2.0	3.5	1940	331	< 2	834	71	203	3.85	< 10	11	< 1	< 10	2.24	58	186	5.01	0.03	2.66	0.16	0.006	< 10	3	< 10
27743	4.8	8.0	5090	483	< 2	823	193	410	4.45	< 10	12	< 1	< 10	2.34	89	287	8.82	0.04	3.95	0.13	0.007	< 10	4	< 10
27744	2.8	3.5	3190	290	< 2	1120	86	274	4.05	< 10	13	< 1	< 10	2.13	125	208	7.34	0.04	2.80	0.15	0.007	< 10	3	< 10
27745	2.0	3.8	2150	269	< 2	1250	86	332	3.69	< 10	12	< 1	< 10	1.56	128	282	8.20	0.04	3.28	0.12	0.007	< 10	3	< 10
27746	2.8	3.4	1870	289	< 2	1080	152	204	4.51	< 10	11	< 1	< 10	2.96	84	151	5.55	0.03	2.00	0.30	0.007	< 10	4	< 10
27747	2.2	4.3	1440	395	< 2	774	159	216	4.18	< 10	10	< 1	< 10	2.76	80	160	5.17	0.03	2.33	0.20	0.006	< 10	4	< 10
27748	3.2	6.5	3340	393	< 2	1390	127	403	3.35	< 10	12	< 1	< 10	1.49	145	236	9.58	0.04	2.98	0.11	0.006	< 10	4	< 10
27749	2.6	6.4	2580	345	< 2	1050	137	353	3.88	< 10	17	< 1	< 10	2.13	97	229	6.66	0.06	2.63	0.14	0.006	< 10	4	< 10
27750	1.1	2.7	9070	282	< 2	> 10000	14	44	0.68	< 10	17	< 1	< 10	0.41	655	32	33.7	0.11	0.18	0.10	0.047	< 10	4	< 10
27751	3.4	4.5	3560	351	< 2	1520	164	440	4.51	< 10	14	< 1	< 10	2.85	113	200	9.20	0.05	2.00	0.23	0.007	< 10	5	< 10
27752	7.8	3.7	6990	383	< 2	2170	156	454	2.84	< 10	20	< 1	< 10	1.32	150	194	14.1	0.07	1.68	0.13	0.006	< 10	3	< 10
27753	9.4	8.0	8540	613	< 2	1970	230	778	3.10	< 10	22	< 1	< 10	0.78	319	203	16.6	0.07	2.47	0.09	0.010	< 10	4	< 10
27754	7.8	12.4	7540	663	< 2	2470	221	1050	2.66	< 10	11	< 1	16	0.86	522	97	23.9	0.02	2.27	0.03	0.013	< 10	4	< 10
27755	4.6	8.1	2720	836	< 2	1270	313	655	3.17	< 10	9	< 1	< 10	2.44	319	73	16.7	0.02	2.75	0.03	0.009	< 10	5	< 10
27756	7.4	9.2	5090	641	< 2	833	309	780	2.59	< 10	26	< 1	< 10	1.94	50	80	9.02	0.07	2.24	0.09	0.008	< 10	7	< 10
27757	5.1	5.2	4380	671	< 2	1470	173	487	4.30	< 10	25	< 1	< 10	1.87	184	71	12.9	0.35	2.80	0.18	0.112	< 10	7	< 10
27758	7.9	7.0	6780	836	< 2	440	167	673	5.29	< 10	51	< 1	< 10	3.05	36	66	8.02	0.16	2.79	0.19	0.021	< 10	8	< 10
27759	10.4	5.8	7810	557	< 2	4980	228	344	2.43	< 10	18	< 1	< 10	2.34	122	37	22.5	0.05	1.95	0.03	0.009	< 10	8	< 10
27760	< 0.2	< 0.5	13	13	< 2	6	3	2	0.04	< 10	10	< 1	< 10	0.05	< 1	2	0.08	0.01	0.02	0.02	0.005	< 10	< 1	< 10
27761	20.9	8.2	3190	720	< 2	603	1140	559	2.71	< 10	16	< 1	86	2.16	54	88	7.17	0.04	2.31	0.08	0.012	< 10	9	< 10
27762	5.1	11.7	4340	407	< 2	5520	83	744	1.69	< 10	14	< 1	< 10	1.17	179	31	25.3	0.09	1.21	0.03	0.012	< 10	5	< 10
27660	< 0.2	< 0.5	7	11	< 2	4	< 2	2	0.04	< 10	13	< 1	< 10	0.04	< 1	3	0.07	0.01	0.02	0.02	0.006	< 10	< 1	< 10
27661	0.2	0.7	240	249	3	82	5	128	3.27	< 10	217	1	< 10	0.31	10	113	3.71	0.81	1.93	0.15	0.013	< 10	4	< 10
27662	0.5	0.5	367	383	2	21	14	150	3.65	< 10	329	1	< 10	0.22	10	131	4.28	1.07	2.37	0.14	0.010	< 10	5	< 10
27663	0.3	0.9	214	389	2	11	2	161	3.69	< 10	306	1	< 10	0.14	9	105	4.38	1.25	2.66	0.14	0.011	< 10	6	< 10
27664	0.4	1.2	558	431	2	11	2	146	3.37	< 10	108	< 1	< 10	0.08	17	95	4.67	1.13	2.31	0.09	0.010	< 10	8	< 10
27665	0.3	0.8	226	377	3	32	2	95	3.65	< 10	455	1	< 10	0.09	10	165	3.46	0.84	1.92	0.11	0.018	< 10	8	< 10
27666	0.8	1.0	617	337	< 2	28	4	92	3.21	< 10	295	1	< 10	0.28	13	99	3.99	0.86	2.19	0.12	0.021	< 10	8	< 10
27667	0.6	0.7	611	277	< 2	144	< 2	80	5.71	< 10	108	< 1	< 10	2.75	27	477	3.79	0.49	3.04	0.33	0.008	< 10	7	< 10
27668	< 0.2	< 0.5	76	94	< 2	32	2	18	9.22	62	29	< 1	< 10	0.89	5	142	0.82	0.04	0.66	0.47	0.008	< 10	3	< 10
27669-A	0.4	< 0.5	195	115	< 2	44	3	17	8.73	87	29	< 1	< 10	6.32	7	132	0.99	0.03	0.85	0.45	0.007	< 10	3	< 10
27763	6.3	14.0	4910	525	< 2	1020	192	1030	2.24	97	9	< 1	< 10	1.51	79	57	8.14	0.02	1.34	0.06	0.012	< 10	7	< 10
27764	5.2	10.6	1710	627	< 2	144	415	850	2.26	28	10	< 1	< 10	1.66	28	56	5.32	0.02	1.69	0.06	0.016	< 10	8	< 10
27765	6.8	10.6	4550	734	< 2	370	141	832	3.88	< 10	22	< 1	< 10	0.98	131	64	15.4	0.07	2.21	0.12	0.019	< 10	5	< 10
27766	9.7	14.7	8950	698	< 2	689	45	1280	4.04	< 10	29	1	< 10	0.66	67	65	13.7	0.37	2.67	0.12	0.030	< 10	7	< 10
27767	2.8	4.2	2480	359	< 2	169	107	313	2.65	< 10	123	< 1	< 10	1.21	35	170	8.42	0.46	2.67	0.12	0.073	< 10	7	< 10
27768	0.2	1.1	155	349	< 2	55	6	122	2.51	< 10	230	< 1	< 10	0.67	26	91	5.71	0.59	2.65	0.13	0.069	< 10	10	< 10
27769	0.4	1.4	476	296	< 2	47	4	54	2.45	< 10	216	< 1	< 10	1.31	25	94	5.97	0.39	2.36	0.14	0.066	< 10	10	< 10
27770	0.7	0.7	1780	361	< 2	1880	3	229	8.81	< 10	25	< 1	< 10	3.47	93	188	4.17	0.04	4.00	0.38	0.003	< 10	4	< 10
27771	0.2	1.1	241	275	2	51	4	56	2.67	< 10	355	< 1	< 10	0.95	25	103	5.76	0.75	2.45	0.16	0.119	< 10	13	< 10
27772	0.2	0.8	296	234	< 2	69	4	81	2.66	< 10	309	< 1	< 10	0.97	25	127	4.52	0.89	2.73	0.12	0.086	< 10	12	< 10
27773	< 0.2	0.8	294	178	< 2	82	3	63	1.82	< 10	165	< 1	< 10	0.96	22	148	4.14	0.53	2.01	0.10	0.094	< 10	8	< 10
27774	0.5	1.5	337	320	< 2	56	3	126	2.66	< 10	110	< 1	< 10	0.68	40	109	7.31	1.12	3.02	0.11	0.082	< 10	14</	

Activation Laboratories Ltd. Report: A08-3468

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	<10	1	1	<10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27775	1.2	1.2	1260	830	<2	63	2	115	4.05	<10	205	1	<10	1.32	30	67	7.71	0.89	4.00	0.07	0.073	<10	15	<10
27776	1.1	1.2	456	732	2	31	4	98	3.28	<10	203	1	<10	0.65	17	81	5.30	0.76	2.72	0.06	0.046	<10	10	<10
27777	<0.2	0.5	141	381	2	15	7	67	3.10	<10	191	1	<10	0.20	9	165	3.51	0.67	2.84	0.06	0.035	<10	7	<10
27778	<0.2	0.5	73	306	4	21	5	51	2.32	<10	97	1	<10	0.33	8	183	2.75	0.62	1.45	0.05	0.025	<10	3	<10
27779	<0.2	<0.5	24	329	2	9	5	43	2.23	<10	69	<1	<10	1.50	6	97	2.03	0.32	1.06	0.06	0.018	<10	3	<10
27780	<0.2	<0.5	4	14	<2	<1	<2	2	0.04	<10	11	<1	<10	0.04	<1	2	0.06	0.01	0.02	0.02	0.005	<10	<1	<10
27781	0.6	0.6	89	331	2	75	16	56	2.33	<10	11	<1	<10	3.29	12	122	1.59	0.02	0.82	0.02	0.023	<10	3	<10
27782	2.8	5.3	1280	417	6	360	36	307	2.35	<10	32	<1	<10	2.15	49	156	2.77	0.16	1.11	0.06	0.048	<10	5	<10
27783	<0.2	1.3	79	956	<2	12	5	99	4.15	<10	149	1	<10	0.84	17	83	5.19	0.88	2.58	0.13	0.061	<10	9	<10
27784	<0.2	1.1	46	842	2	12	4	130	4.07	<10	98	<1	<10	0.77	8	106	6.94	0.61	3.35	0.09	0.029	<10	5	<10
27550	1.0	2.5	8410	224	<2	>10000	11	39	0.53	<10	19	<1	<10	0.37	520	28	31.5	0.11	0.19	0.09	0.045	<10	3	<10
27551	<0.2	<0.5	140	69	<2	49	<2	7	7.42	<10	12	<1	<10	5.20	5	130	0.70	0.02	0.65	0.77	0.003	<10	2	<10
27552	0.2	<0.5	204	72	<2	69	3	9	9.11	<10	15	<1	<10	6.38	7	148	0.75	0.02	0.68	0.91	0.003	<10	2	<10
27553	<0.2	<0.5	164	85	<2	78	<2	7	8.37	<10	17	<1	<10	5.85	8	146	0.75	0.04	0.77	0.77	0.003	<10	2	<10
27554	0.2	<0.5	184	69	<2	85	2	8	8.01	<10	16	<1	<10	6.09	10	148	0.83	0.05	0.85	0.64	0.003	<10	2	<10
27555	<0.2	<0.5	167	122	<2	200	4	15	8.75	<10	27	<1	<10	6.14	19	161	1.49	0.12	1.64	0.47	0.005	<10	3	<10
27556	<0.2	<0.5	128	66	<2	63	<2	8	7.90	<10	16	<1	<10	5.62	8	167	0.77	0.05	0.83	0.60	0.004	<10	3	<10
27557	<0.2	<0.5	191	75	<2	60	<2	8	8.26	<10	14	<1	<10	5.92	7	186	0.73	0.03	0.75	0.66	0.005	<10	4	<10
27558	0.2	<0.5	228	103	<2	111	<2	40	8.94	<10	208	<1	<10	3.81	15	465	2.07	0.72	2.09	0.37	0.009	<10	8	<10
27559	<0.2	0.5	100	211	2	11	3	73	2.62	<10	235	1	<10	0.40	7	121	2.52	0.55	1.55	0.16	0.012	<10	3	<10
30523	0.2	<0.5	293	72	<2	33	<2	7	6.25	<10	37	<1	<10	4.23	8	149	1.04	0.22	0.93	0.73	0.014	<10	3	<10
30524	0.4	0.7	698	137	<2	98	2	15	6.45	<10	97	<1	<10	3.78	25	281	2.67	0.88	2.50	0.56	0.045	<10	5	<10
30525	0.2	<0.5	562	72	<2	188	<2	10	5.99	<10	56	<1	<10	4.01	33	206	1.59	0.24	1.13	0.52	0.013	<10	4	<10
30526	<0.2	<0.5	95	165	<2	60	<2	14	4.24	<10	18	<1	<10	2.50	16	236	1.79	0.06	1.70	0.42	0.012	<10	3	<10
30527	0.2	0.7	447	179	<2	516	<2	38	2.97	<10	183	<1	<10	0.69	55	110	3.86	0.85	3.98	0.09	0.012	<10	3	<10
30528	1.3	0.8	3060	231	<2	399	3	30	8.66	<10	14	<1	<10	6.12	47	69	3.20	0.05	1.73	0.48	0.016	<10	3	<10
30529	<0.2	0.9	115	478	<2	31	2	31	1.52	<10	46	<1	<10	1.97	24	81	4.73	0.08	1.33	0.20	0.057	<10	13	<10
30530	<0.2	<0.5	4	12	<2	<1	<2	2	0.05	<10	9	<1	<10	0.04	<1	3	0.06	0.01	0.02	0.01	0.004	<10	<1	<10
30531	<0.2	<0.5	47	80	<2	157	3	8	0.35	<10	11	<1	<10	0.60	17	111	0.90	0.03	0.58	0.05	0.096	<10	2	<10
30532	0.4	0.5	556	206	<2	132	7	28	7.67	<10	14	<1	<10	5.44	22	172	2.43	0.03	1.75	0.49	0.032	<10	4	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27733	80	0.03	26	< 10	2	1	0.056
27734	116	0.02	19	< 10	1	1	0.086
27735	95	0.01	15	< 10	1	1	0.165
27736	84	0.02	18	< 10	1	1	0.191
27737	26	0.03	26	< 10	1	1	0.233
27738	35	0.03	27	< 10	1	2	1.017
27739	28	0.03	25	< 10	1	2	0.738
27740	67	0.02	36	< 10	< 1	2	0.498
27741	20	0.03	22	< 10	1	2	0.712
27742	33	0.02	23	< 10	1	2	1.180
27743	31	0.03	38	< 10	1	3	1.822
27744	39	0.03	26	< 10	1	3	2.607
27745	23	0.03	26	< 10	1	3	2.858
27746	60	0.03	23	< 10	1	2	2.025
27747	40	0.03	27	< 10	1	2	1.508
27748	16	0.04	32	< 10	1	3	3.320
27749	32	0.04	31	< 10	1	2	2.198
27750	18	0.09	63	< 10	10	16	7.919
27751	48	0.04	37	< 10	1	3	3.562
27752	15	0.05	56	< 10	1	5	5.098
27753	9	0.07	71	< 10	2	6	4.934
27754	11	0.08	78	11	2	7	10.05
27755	9	0.05	50	< 10	3	5	6.124
27756	18	0.05	62	< 10	2	4	2.949
27757	21	0.11	63	< 10	6	5	4.390
27758	34	0.05	76	< 10	3	3	1.486
27759	12	0.04	45	< 10	1	7	6.019
27760	2	< 0.01	< 1	< 10	1	5	0.031
27761	20	0.05	109	< 10	2	3	1.909
27762	12	0.05	71	< 10	1	6	5.192
27763	2	< 0.01	< 1	< 10	1	5	0.026
27764	8	0.11	21	< 10	5	7	0.293
27765	7	0.11	16	< 10	4	6	0.218
27766	7	0.12	15	< 10	4	5	0.144
27767	8	0.11	17	< 10	4	5	0.502
27768	6	0.15	23	< 10	4	4	0.071
27769	9	0.15	34	< 10	4	4	0.243
27770	34	0.10	73	< 10	2	2	0.285
27771	85	0.01	17	< 10	1	< 1	0.060
27772-A	94	0.01	17	< 10	1	< 1	0.057
27773	26	0.06	84	< 10	2	4	2.992
27774	25	0.10	118	< 10	3	3	0.721
27775	21	0.07	114	< 10	4	5	6.019
27776	35	0.10	176	< 10	4	5	3.226
27777	28	0.13	112	< 10	5	10	0.824
27778	18	0.18	197	< 10	8	4	0.100
27779	23	0.15	186	< 10	10	3	0.148
27780	73	0.02	40	< 10	1	2	0.536
27781	20	0.15	170	< 10	10	3	0.092
27782	16	0.19	119	< 10	9	9	0.213
27783	15	0.14	113	< 10	7	10	0.168
27784	12	0.22	166	< 10	7	5	0.659

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27775	17	0.25	137	< 10	11	4	0.410
27776	21	0.17	61	< 10	12	11	0.236
27777	11	0.08	24	< 10	8	10	0.071
27778	8	0.07	9	< 10	11	18	0.036
27779	19	0.10	8	< 10	13	13	0.061
27780	2	< 0.01	< 1	< 10	1	5	0.020
27781	16	0.06	17	< 10	10	6	0.101
27782	16	0.13	24	< 10	11	10	0.677
27783	45	0.15	67	< 10	12	6	0.561
27784	25	0.10	26	< 10	10	10	0.277
27550	18	0.07	56	< 10	14	17	6.003
27551	113	0.01	11	< 10	< 1	< 1	0.058
27552	142	0.01	12	< 10	< 1	< 1	0.083
27553	126	0.01	13	< 10	< 1	< 1	0.077
27554	121	0.02	14	< 10	< 1	< 1	0.086
27665	104	0.03	20	< 10	1	1	0.124
27555	102	0.02	16	< 10	1	< 1	0.055
27667	87	0.01	16	< 10	1	1	0.059
27558	65	0.08	82	< 10	2	2	0.082
27559	9	0.10	16	< 10	5	7	0.081
30523	70	0.05	25	< 10	1	1	0.063
30524	57	0.09	67	< 10	3	2	0.166
30525	60	0.06	41	< 10	2	2	0.333
30526	89	0.04	29	< 10	1	1	0.030
30527	3	0.07	31	< 10	1	2	0.308
30528	239	0.04	37	< 10	2	1	0.886
30529	11	0.18	180	< 10	12	5	0.135
30530	2	< 0.01	1	< 10	1	5	0.018
30531	5	0.05	16	< 10	3	1/	0.194
30532	160	0.14	74	< 10	7	2	0.120

Activation Laboratories Ltd. Report: A08-3468

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.7	3.1	1170	742	14	36	574	529	0.35	352	415	1	1450	0.77	7	6	25.3	0.03	0.14	0.08	0.039	80	1	29
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.6	0.7	6560	147	344	42	46	71	3.00	104	35	1	17	1.02	17	58	3.65	1.53	1.81	0.14	0.121	< 10	7	< 10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.5	4.9	79	1070	< 2	18	740	550	3.81	16	1330	1	< 10	0.87	11	26	2.19	0.61	0.57	0.28	0.055	35	5	< 10
GXR-2 Cert	17.0	4.10	76.0	1070	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.7	75	1130	2	27	99	126	7.88	248	916	1	< 10	0.17	18	89	5.36	1.04	0.45	0.15	0.034	< 10	22	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas							2880										6.35							
OREAS 13P Cert							2500										7.58							
27745 Ong	2.0	3.5	2200	272	< 2	1280	85	333	3.74	< 10	11	< 1	< 10	1.58	126	286	8.24	0.04	3.30	0.12	0.007	< 10	3	< 10
27745 Dup	2.0	3.8	2100	266	< 2	1230	87	330	3.64	< 10	12	< 1	< 10	1.54	129	277	8.17	0.04	3.25	0.12	0.007	< 10	2	< 10
27755 Ong	10.5	5.7	7780	559	< 2	4930	232	349	2.47	< 10	18	< 1	< 10	2.36	121	37	22.5	0.05	1.97	0.03	0.010	< 10	6	< 10
27755 Dup	10.3	5.4	7840	554	< 2	4900	223	338	2.39	< 10	17	< 1	< 10	2.33	122	36	22.5	0.05	1.93	0.03	0.009	< 10	6	< 10
27655-A Orig	0.8	< 0.5	104	115	< 2	45	4	17	8.68	67	28	< 1	< 10	6.31	7	133	1.00	0.03	0.85	0.45	0.007	< 10	3	< 10
27655-A Dup	0.2	< 0.5	105	115	< 2	43	2	17	8.77	66	28	< 1	< 10	6.33	7	131	0.98	0.03	0.84	0.46	0.007	< 10	3	< 10
27776 Ong	1.1	1.1	450	712	2	29	4	95	3.18	< 10	199	1	< 10	0.63	17	76	5.16	0.75	2.64	0.07	0.045	< 10	10	< 10
27776 Dup	1.1	1.2	459	752	2	32	4	101	3.37	< 10	206	1	< 10	0.67	17	83	5.45	0.78	2.79	0.08	0.046	< 10	10	< 10
30527 Ong	0.2	0.7	448	178	< 2	518	3	38	2.97	< 10	182	< 1	< 10	0.69	54	110	3.86	0.85	3.97	0.09	0.012	< 10	3	< 10
30527 Dup	0.2	0.7	448	179	< 2	519	< 2	38	2.98	< 10	183	< 1	< 10	0.70	55	110	3.86	0.84	3.95	0.10	0.011	< 10	3	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	179		77	138	23	16	0.210
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	76		90	13	12	11	1.915
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	98		51	< 10	11	12	0.036
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	31		192	< 10	6	11	0.017
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
27745 Orig	23	0.03	26	< 10	1	3	2.859
27745 Dup	23	0.03	25	< 10	1	3	2.857
27769 Orig	12	0.04	46	< 10	1	7	5.999
27769 Dup	12	0.04	46	< 10	1	7	6.039
27665-A Orig	93	0.01	17	< 10	1	< 1	0.057
27665-A Dup	94	0.01	17	< 10	1	< 1	0.058
27776 Orig	20	0.17	60	< 10	12	11	0.232
27776 Dup	21	0.17	62	< 10	12	10	0.238
30527 Orig	3	0.07	31	< 10	1	2	0.308
30527 Dup	3	0.07	31	< 10	1	2	0.308
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 23-Jun-08

Invoice No.: A08-3467

Invoice Date: 16-Jul-08

Your Reference: 22603

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

90 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3467**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

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Activation Laboratories Ltd. Report: A08-3467

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
30543	< 0.2	< 0.5	267	69	< 2	55	4	17	4.32	< 10	120	< 1	< 10	2.34	17	244	1.55	0.32	1.21	0.43	0.013	< 10	4	< 10	
30644	1.0	< 0.5	390	137	< 2	211	20	19	4.68	< 10	11	< 1	< 10	3.67	20	102	1.47	0.03	1.25	0.40	0.010	< 10	3	< 10	
30645	0.1	< 0.5	677	233	< 2	513	2	62	2.68	< 10	6	< 1	< 10	0.48	55	220	3.36	0.01	3.90	0.04	0.007	< 10	1	< 10	
30646	0.7	< 0.5	347	221	< 2	386	10	49	3.48	< 10	9	< 1	< 10	1.73	35	163	2.71	0.03	3.35	0.13	0.007	< 10	2	< 10	
30647	0.3	< 0.5	164	185	< 2	263	33	26	4.69	< 10	11	< 1	< 10	3.88	19	167	1.49	0.03	1.24	0.53	0.004	< 10	3	< 10	
30648	< 0.2	< 0.5	59	149	< 2	87	54	22	5.54	< 10	14	< 1	< 10	4.55	10	160	1.05	0.02	0.84	0.56	0.009	< 10	3	< 10	
30649	0.8	< 0.5	765	164	< 2	635	45	41	2.15	< 10	10	< 1	< 10	1.77	51	122	2.58	0.02	1.13	0.33	0.001	< 10	4	< 10	
30650	1.0	1.4	8970	267	< 2	> 10000	18	40	0.45	< 10	3	< 1	< 10	0.37	617	33	31.8	0.11	0.16	0.08	0.047	< 10	4	< 10	
30651	2.3	1.6	1370	291	< 2	2010	33	107	2.30	< 10	8	< 1	< 10	1.41	128	313	6.51	0.52	2.20	0.14	0.007	< 10	2	< 10	
30652	2.9	2.4	1800	951	< 2	885	46	160	3.11	< 10	6	< 1	< 10	0.83	66	503	6.13	0.01	4.17	0.07	0.008	< 10	2	< 10	
30653	1.8	1.9	1090	284	< 2	606	34	177	2.60	< 10	6	< 1	< 10	0.88	54	597	4.66	0.01	3.43	0.06	0.007	< 10	1	< 10	
30654	7.3	3.8	6500	352	< 2	753	28	215	2.60	< 10	5	< 1	< 10	0.85	53	662	5.67	0.01	3.25	0.06	0.008	< 10	2	< 10	
30655	5.0	7.3	3360	356	< 2	760	88	342	2.35	< 10	12	< 1	< 10	1.39	54	291	4.14	0.04	2.49	0.09	0.005	< 10	3	< 10	
30656	3.5	5.8	2380	297	< 2	802	66	282	2.35	< 10	7	< 1	< 10	1.05	66	398	4.05	0.02	2.78	0.07	0.007	< 10	3	< 10	
30657	2.5	2.4	1510	274	< 2	1130	112	133	2.60	< 10	10	< 1	< 10	1.69	77	218	3.84	0.04	2.24	0.10	0.004	< 10	2	< 10	
30658	3.1	3.5	2290	312	< 2	1260	96	163	2.79	< 10	10	< 1	< 10	2.01	87	163	4.38	0.04	2.06	0.10	0.006	< 10	2	< 10	
30659	3.5	3.8	1970	344	< 2	1010	141	176	2.81	< 10	9	< 1	< 10	1.84	59	216	5.03	0.03	2.40	0.11	0.004	< 10	3	< 10	
30660	< 0.2	< 0.5	9	11	< 2	3	< 2	2	0.04	< 10	6	< 1	< 10	0.04	< 1	3	0.06	< 0.01	0.02	0.01	0.003	< 10	< 1	< 10	
30661	3.7	4.9	2460	382	< 2	1070	103	203	2.89	< 10	10	< 1	< 10	1.88	81	185	4.48	0.03	2.54	0.10	0.006	< 10	3	< 10	
30662	3.5	4.6	2260	308	< 2	776	94	172	2.62	< 10	8	< 1	< 10	1.96	53	195	3.53	0.02	2.02	0.15	0.004	< 10	3	< 10	
30663	4.1	6.6	3040	271	< 2	815	49	259	2.46	< 10	6	< 1	< 10	1.08	61	232	5.01	0.02	2.63	0.09	0.005	< 10	2	< 10	
30664	3.1	2.9	2070	250	< 2	1050	143	146	3.48	< 10	9	< 1	< 10	2.53	69	139	4.06	0.03	1.50	0.21	0.003	< 10	3	< 10	
30665	21.9	15.3	> 10000	308	< 2	1810	386	430	2.35	< 10	7	< 1	< 10	2.5	175	86	182	7.99	0.03	1.51	0.17	0.022	< 10	4	< 10
30666	5.1	2.9	1690	322	< 2	968	190	221	2.69	< 10	7	< 1	< 10	22	0.88	76	360	6.99	0.02	3.38	0.08	0.006	< 10	2	< 10
30667	2.6	3.3	1810	198	< 2	762	117	203	3.07	< 10	7	< 1	< 10	1.77	50	207	4.50	0.02	2.05	0.21	0.005	< 10	2	< 10	
30668	4.4	4.8	2930	130	< 2	1310	222	251	3.60	< 10	9	< 1	< 10	2.62	110	96	5.98	0.02	0.96	0.44	0.008	< 10	3	< 10	
30669	7.7	6.2	5710	203	< 2	1950	191	332	2.98	< 10	9	< 1	< 10	1.71	117	84	8.94	0.02	1.27	0.29	0.013	< 10	4	< 10	
30670	0.7	< 0.5	1500	275	< 2	1520	4	27	4.60	< 10	17	< 1	< 10	2.62	48	125	3.63	0.03	2.93	0.29	0.003	< 10	3	< 10	
30671	9.0	10.2	7000	190	< 2	1760	171	846	3.05	< 10	14	< 1	< 10	1.41	104	164	5.01	0.16	1.81	0.30	0.010	< 10	4	< 10	
30672	8.5	6.4	5350	287	< 2	1730	304	423	3.74	< 10	12	< 1	< 10	1.1	170	230	97	9.74	0.09	1.81	0.39	0.010	< 10	3	< 10
30673	11.2	9.5	6900	336	< 2	1920	212	606	3.48	< 10	8	< 1	< 10	1.1	199	113	72	9.91	0.03	1.67	0.30	0.012	< 10	4	< 10
30674	6.8	6.1	4280	311	< 2	874	211	370	3.21	< 10	10	< 1	< 10	2.70	58	83	5.70	0.03	1.39	0.27	0.012	< 10	9	< 10	
30675	6.4	6.5	4210	313	< 2	1270	179	412	2.40	< 10	8	< 1	< 10	1.84	100	48	6.51	0.03	1.28	0.15	0.016	< 10	7	< 10	
30676	16.2	17.5	> 10000	409	< 2	1460	225	811	1.83	< 10	9	< 1	< 10	1.15	129	71	8.83	0.04	1.69	0.07	0.021	< 10	8	< 10	
30677	20.9	21.2	> 10000	536	< 2	1640	457	955	2.44	< 10	9	< 1	< 10	33	1.14	109	65	11.1	0.04	2.56	0.05	0.020	< 10	13	< 10
30678	12.4	17.6	9220	849	< 2	2180	238	819	3.62	< 10	6	< 1	< 10	0.70	121	74	16.3	0.02	3.66	0.02	0.017	< 10	17	< 10	
30679	9.8	13.9	5420	630	< 2	1660	276	851	2.68	< 10	4	< 1	17	0.54	740	83	18.7	< 0.01	2.61	0.02	0.011	< 10	8	18	
30680	< 0.2	< 0.5	24	11	< 2	9	< 2	4	0.04	< 10	7	< 1	< 10	0.03	3	< 2	0.11	< 0.01	0.02	0.01	0.003	< 10	< 1	< 10	
30681	9.3	3.4	2910	817	< 2	388	463	200	4.10	< 10	24	< 1	27	0.46	51	84	9.14	0.06	4.37	0.06	0.027	< 10	12	15	
30682	3.2	1.5	2340	747	< 2	94	138	112	3.38	< 10	24	< 1	< 10	0.48	26	54	8.85	0.05	3.59	0.04	0.043	< 10	12	11	
30683	2.9	18.7	1580	760	< 2	129	359	634	3.72	< 10	7	< 1	< 10	2.35	31	66	7.33	0.01	2.81	0.03	0.081	< 10	13	11	
30684	3.7	6.4	3760	693	< 2	227	94	270	2.76	< 10	9	< 1	< 10	1.24	39	57	7.54	0.02	2.62	0.03	0.062	< 10	11	14	
30685	0.5	4.4	323	806	< 2	55	90	251	2.84	< 10	52	< 1	< 10	0.78	22	60	5.73	0.14	2.78	0.08	0.084	< 10	12	< 10	
30686	56.5	79.3	> 10000	349	< 2	2650	154	1670	1.72	< 10	7	< 1	< 10	24	0.57	206	31	16.0	0.10	1.39	0.03	0.052	< 10	5	23
30687	74.3	164	> 10000	390	< 2	3820	251	3550	1.69	< 10	6	< 1	29	0.38	177	40	24.8	0.12	1.35	0.02	0.041	< 10	4	39	
30688	9.8	25.9	6690	187	< 2	9550	122	573	0.74	< 10	6	< 1	11	0.17	333	52	37.7	0.10	0.52	0.02	0.010	< 10	1	20	
30689	17.3	23.5	> 10000	264	< 2	7060	189	621	1.01	< 10	7	< 1	13	0.31	797	62	32	2	0.08	0.72	0.02	0.020	< 10	2	21
30690	0.6	< 0.5	1490	284	< 2	1600	< 2	32	4.81	< 10	17	< 1	< 10	2.89	56	131	3.29	0.03	3.02	0.29	0.003	< 10	3	< 10	
30691	6.2	9.8	3600	457	< 2	450	136	312	1.85	< 10	13	< 1	< 10	1.09	58	80	6.82	0.04	1.45	0.05	0.052	< 10	5	< 10	
30692	1.8	0.9	829	881	< 2	103	79	91	3.66	< 10	40	< 1	< 10	0.95	31	79	7.75	0.12	3.26	0.12	0.046	< 10	11	< 10	
27471	< 0.2	< 0.5	120	79	< 2	30	6	11	4.10	< 10	8	< 1	< 10	3.21	7	107	0.79	0.01	0.62	0.49	0.011	< 10	3	< 10	
27472	< 0.2	< 0.5	70	76	< 2	35	< 2	10	4.26	< 10</															

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
27473	< 0.2	< 0.5	13	113	< 2	36	< 2	11	2.16	< 10	10	< 1	< 10	1.48	8	160	1.06	0.03	1.12	0.28	0.001	< 10	3	< 10
27474	< 0.2	< 0.5	9	102	< 2	32	< 2	9	3.31	< 10	12	< 1	< 10	2.42	6	129	0.94	0.03	0.91	0.41	0.002	< 10	2	< 10
27475	< 0.2	< 0.5	100	109	< 2	40	14	26	4.41	< 10	79	< 1	< 10	3.23	8	188	1.10	0.11	0.82	0.66	0.012	< 10	4	< 10
27476	< 0.2	< 0.5	6	71	< 2	56	< 2	28	4.33	< 10	79	< 1	< 10	3.18	10	234	1.04	0.24	1.13	0.39	0.007	< 10	3	< 10
27477	< 0.2	< 0.5	92	88	< 2	203	2	21	4.88	< 10	152	< 1	< 10	2.98	20	203	2.19	0.62	2.36	0.33	0.009	< 10	5	< 10
27478	< 0.2	< 0.5	65	72	< 2	43	2	13	5.12	< 10	201	< 1	< 10	3.51	11	165	1.19	0.26	1.14	0.71	0.011	< 10	4	< 10
27479	< 0.2	< 0.5	148	120	< 2	93	2	15	4.65	< 10	83	< 1	< 10	3.54	15	153	1.43	0.14	1.44	0.44	0.014	< 10	4	< 10
27480	< 0.2	< 0.5	3	8	< 2	< 1	< 2	1	0.06	< 10	9	< 1	< 10	0.04	< 1	2	0.05	< 0.01	0.02	0.01	0.004	< 10	< 1	< 10
27481	0.4	< 0.5	739	172	< 2	34	2	20	4.87	< 10	35	< 1	< 10	4.28	14	64	1.70	0.52	0.88	0.37	0.034	< 10	7	< 10
27482	< 0.2	< 0.5	136	148	< 2	31	< 2	15	5.91	< 10	23	< 1	< 10	5.03	10	76	1.42	0.02	0.87	0.41	0.040	< 10	7	< 10
27483	0.2	< 0.5	280	202	< 2	38	< 2	16	4.80	< 10	39	< 1	< 10	4.13	13	60	1.75	0.02	0.92	0.44	0.023	< 10	7	< 10
27484	0.5	< 0.5	96	239	< 2	30	< 2	17	3.47	< 10	38	< 1	< 10	3.07	14	70	2.13	0.02	1.10	0.36	0.027	< 10	6	< 10
27485	< 0.2	< 0.5	151	281	< 2	49	< 2	18	2.30	< 10	31	< 1	< 10	2.18	18	82	2.87	0.03	1.18	0.84	0.030	< 10	8	< 10
27486	< 0.2	< 0.5	460	251	< 2	33	3	18	3.48	< 10	23	< 1	< 10	3.13	14	81	2.08	0.02	1.20	0.32	0.038	< 10	7	< 10
27487	0.4	< 0.5	695	215	< 2	35	2	17	5.01	< 10	60	< 1	< 10	4.34	14	74	2.17	0.02	1.08	0.43	0.047	< 10	8	< 10
27488	0.3	< 0.5	678	276	< 2	39	3	21	4.83	< 10	78	< 1	< 10	4.04	15	91	2.49	0.02	1.21	0.42	0.030	< 10	9	< 10
27489	< 0.2	< 0.5	75	173	< 2	20	< 2	13	2.40	< 10	87	< 1	< 10	2.21	10	68	1.52	0.01	0.77	0.30	0.029	< 10	7	< 10
27490	0.6	< 0.5	1060	322	< 2	1760	7	29	5.45	< 10	21	< 1	< 10	3.04	53	166	3.65	0.03	3.48	0.33	0.003	< 10	3	< 10
27491	< 0.2	< 0.5	180	166	< 2	311	< 2	27	3.17	< 10	18	< 1	< 10	1.58	43	73	3.13	< 0.01	2.79	0.17	0.027	< 10	3	< 10
27492	< 0.2	< 0.5	185	128	< 2	415	< 2	28	2.32	< 10	4	< 1	< 10	0.39	45	110	2.83	< 0.01	3.25	0.04	0.009	< 10	1	< 10
27493	< 0.2	< 0.5	43	147	< 2	31	< 2	9	1.96	< 10	12	< 1	< 10	1.75	9	81	1.08	< 0.01	0.75	0.32	0.011	< 10	5	< 10
27494	< 0.2	< 0.5	88	113	< 2	27	< 2	7	2.46	< 10	11	< 1	< 10	2.12	8	70	0.89	< 0.01	0.60	0.42	0.013	< 10	5	< 10
27495	< 0.2	< 0.5	62	151	< 2	32	< 2	11	2.16	< 10	10	< 1	< 10	1.97	10	86	1.14	0.01	0.74	0.38	0.014	< 10	7	< 10
27496	< 0.2	< 0.5	96	204	< 2	36	< 2	13	1.69	< 10	13	< 1	< 10	1.59	13	89	1.46	0.03	0.52	0.23	0.014	< 10	7	< 10
27497	< 0.2	< 0.5	105	223	< 2	57	< 2	14	2.01	< 10	81	< 1	< 10	1.82	17	72	1.91	0.11	1.02	0.32	0.024	< 10	7	< 10
27498	0.2	< 0.5	376	256	< 2	66	< 2	17	1.88	< 10	29	< 1	< 10	1.94	23	73	2.27	0.03	0.84	0.28	0.036	< 10	8	< 10
27499	< 0.2	< 0.5	208	209	< 2	56	< 2	15	1.97	< 10	15	< 1	< 10	1.85	16	59	1.66	0.01	0.77	0.31	0.024	< 10	8	< 10
27500	0.9	1.2	8970	276	< 2	> 10000	18	41	0.46	< 10	3	< 1	< 10	0.36	526	33	32.9	0.11	0.17	0.06	0.048	< 10	4	< 10
27501	1.4	0.5	1200	236	< 2	93	< 2	24	3.01	< 10	23	< 1	< 10	2.56	23	85	2.41	0.01	0.93	0.41	0.033	< 10	6	< 10
27502	< 0.2	< 0.5	139	251	< 2	56	< 2	16	2.04	< 10	12	< 1	< 10	2.02	17	88	1.99	0.02	0.92	0.31	0.029	< 10	7	< 10
27503	< 0.2	< 0.5	126	259	< 2	76	< 2	16	1.73	< 10	13	< 1	< 10	1.82	21	66	2.07	0.02	0.84	0.27	0.028	< 10	7	< 10
27504	< 0.2	< 0.5	339	238	< 2	86	< 2	17	2.60	< 10	24	< 1	< 10	2.40	26	83	2.21	0.01	0.97	0.37	0.034	< 10	7	< 10
27505	< 0.2	< 0.5	135	223	< 2	58	< 2	16	1.87	< 10	33	< 1	< 10	1.88	15	76	1.86	0.03	0.84	0.31	0.026	< 10	6	< 10
27506	< 0.2	< 0.5	211	265	< 2	86	< 2	18	2.67	< 10	23	< 1	< 10	2.49	23	83	2.31	0.02	1.13	0.41	0.027	< 10	8	< 10
27507	< 0.2	< 0.5	172	222	< 2	56	2	18	2.11	< 10	22	< 1	< 10	1.95	18	68	1.89	0.01	0.91	0.31	0.029	< 10	7	< 10
27508	0.5	< 0.5	543	287	< 2	70	2	23	3.37	< 10	21	< 1	< 10	2.91	23	74	2.66	0.01	1.35	0.28	0.033	< 10	8	< 10
27509	< 0.2	< 0.5	216	124	< 2	21	3	11	4.11	< 10	74	< 1	< 10	3.35	9	62	1.14	0.01	0.85	0.44	0.018	< 10	6	< 10
27510	< 0.2	< 0.5	3	10	< 2	< 1	< 2	< 1	0.04	< 10	8	< 1	< 10	0.04	< 1	< 2	0.05	< 0.01	0.02	0.01	0.003	< 10	< 1	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30543	38	0.08	36	< 10	3	2	0.173
30544	78	0.02	19	< 10	< 1	< 1	0.166
30545	2	0.04	19	< 10	< 1	< 1	0.317
30546	27	0.03	19	< 10	< 1	< 1	0.161
30547	75	0.02	19	< 10	< 1	< 1	0.197
30548	84	0.02	17	< 10	< 1	< 1	0.087
30549	30	0.02	23	< 10	2	1	0.853
30550	14	0.05	69	< 10	15	17	8.996
30551	20	0.02	25	< 10	1	2	2.875
30552	4	0.03	27	< 10	< 1	2	1.185
30553	2	0.03	22	< 10	< 1	1	0.888
30554	3	0.03	25	< 10	< 1	2	1.950
30555	6	0.02	25	< 10	< 1	1	1.064
30556	4	0.02	24	< 10	< 1	1	0.980
30557	18	0.02	19	< 10	< 1	1	1.234
30558	20	0.01	18	< 10	< 1	1	1.537
30559	21	0.02	21	< 10	< 1	2	1.544
30560	< 1	< 0.01	< 1	< 10	< 1	3	0.019
30561	18	0.02	21	< 10	< 1	2	1.324
30562	32	0.02	20	< 10	< 1	1	0.991
30563	12	0.02	18	< 10	< 1	1	1.485
30564	50	0.02	20	< 10	< 1	1	1.466
30565	27	0.03	36	< 10	1	3	4.030
30566	5	0.02	25	< 10	< 1	2	1.487
30567	32	0.02	19	< 10	< 1	1	1.372
30568	58	0.02	19	< 10	< 1	2	2.796
30569	33	0.03	29	< 10	< 1	2	4.244
30570	57	0.01	30	< 10	< 1	< 1	0.457
30571	32	0.07	78	< 10	1	2	3.857
30572	41	0.04	56	< 10	1	2	4.452
30573	40	0.02	36	< 10	< 1	2	4.746
30574	54	0.03	40	< 10	2	2	2.156
30575	34	0.03	36	< 10	2	2	2.646
30576	13	0.04	43	< 10	2	3	3.846
30577	22	0.05	54	< 10	3	4	4.303
30578	22	0.07	76	< 10	4	4	4.807
30579	10	0.10	96	< 10	4	5	9.163
30580	< 1	< 0.01	< 1	< 10	< 1	3	0.045
30581	31	0.12	96	< 10	10	2	1.146
30582	17	0.17	98	< 10	12	2	0.386
30583	14	0.15	119	< 10	17	3	0.668
30584	11	0.16	105	50	18	4	1.142
30585	20	0.15	104	< 10	18	3	0.153
30586	13	0.06	63	15	6	5	7.340
30587	9	0.07	59	27	4	6	7.868
30588	4	0.03	76	< 10	2	9	7.732
30589	5	0.05	64	< 10	4	8	6.929
30590	59	0.01	31	< 10	< 1	< 1	0.483
30591	14	0.12	116	< 10	8	2	1.461
30592	41	0.13	156	< 10	10	2	0.307
27471	54	0.03	16	< 10	< 1	< 1	0.056
27472	63	0.02	17	< 10	< 1	< 1	0.038

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27473	25	0.02	23	< 10	2	< 1	0.014
27474	44	0.01	17	< 10	1	< 1	0.018
27475	65	0.05	25	< 10	1	< 1	0.049
27476	36	0.05	21	< 10	< 1	< 1	0.020
27477	54	0.09	67	< 10	< 1	< 1	0.033
27478	64	0.05	47	< 10	1	< 1	0.032
27479	52	0.07	33	< 10	2	< 1	0.041
27480	1	< 0.01	< 1	< 10	< 1	3	0.016
27481	87	0.05	56	< 10	3	< 1	0.132
27482	112	0.07	46	< 10	3	< 1	0.047
27483	118	0.07	53	< 10	3	< 1	0.073
27484	79	0.08	66	< 10	4	1	0.050
27485	44	0.10	67	< 10	5	1	0.106
27486	56	0.05	56	294	4	1	0.038
27487	77	0.07	66	14	4	< 1	0.116
27488	78	0.08	76	< 10	4	< 1	0.112
27489	48	0.08	56	< 10	4	< 1	0.022
27490	65	0.02	36	< 10	< 1	1	0.501
27491	42	0.04	37	< 10	2	< 1	0.313
27492	< 1	0.02	22	< 10	< 1	< 1	0.176
27493	40	0.04	31	< 10	2	1	0.031
27494	42	0.04	27	< 10	1	< 1	0.046
27495	33	0.04	35	< 10	2	< 1	0.057
27496	17	0.05	41	< 10	2	1	0.053
27497	29	0.09	54	< 10	3	1	0.134
27498	34	0.09	62	< 10	4	1	0.310
27499	35	0.08	44	< 10	3	1	0.201
27500	14	0.06	61	< 10	16	17	6.391
27501	62	0.07	55	< 10	3	1	0.413
27502	39	0.08	53	< 10	4	1	0.170
27503	28	0.09	66	< 10	4	1	0.229
27504	57	0.08	56	< 10	4	1	0.297
27505	35	0.08	51	< 10	3	1	0.125
27506	55	0.09	61	< 10	4	1	0.213
27507	39	0.08	53	< 10	4	1	0.149
27508	67	0.08	66	< 10	4	1	0.193
27509	143	0.07	50	< 10	3	< 1	0.052
27510	1	< 0.01	< 1	< 10	< 1	3	0.015

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	27.0	3.3	1160	799	15	37	833	851	0.33	372	215	<1	1480	0.79	15	10	25.4	0.02	0.14	0.05	0.041	50	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.4	< 0.5	5900	136	335	39	46	58	2.36	98	28	1	28	0.92	15	55	3.31	1.31	1.64	0.11	0.115	< 10	7	< 10
GXR-4 Cert	4.00	0.860	6020	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.4	4.5	84	1060	<2	18	786	559	3.42	11	1160	1	<10	0.82	12	28	2.28	0.59	0.57	0.22	0.058	37	6	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	63	995	3	23	92	112	6.17	220	840	<1	<10	0.16	16	81	5.94	0.87	0.41	0.11	0.030	< 10	22	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.9	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			3090		2440												6.12							
OREAS 13P Cert			2500		2280												7.58							
30555 Ong	5.0	7.1	3370	354	< 2	754	85	338	2.34	< 10	12	< 1	< 10	1.39	54	290	4.14	0.04	2.50	0.09	0.005	< 10	3	< 10
30555 Dup	5.1	7.6	3350	357	< 2	769	91	346	2.35	< 10	12	< 1	< 10	1.39	55	292	4.14	0.04	2.45	0.06	0.005	< 10	3	< 10
30655 Ong	7.6	6.2	5060	202	< 2	1930	188	390	2.64	< 10	9	< 1	14	1.69	115	84	8.86	0.02	1.27	0.29	0.013	< 10	4	< 10
30655 Dup	7.8	6.2	5810	204	< 2	1970	193	395	2.98	< 10	9	< 1	12	1.73	119	86	8.99	0.02	1.28	0.29	0.013	< 10	4	< 10
30582 Ong	3.2	1.6	2370	752	< 2	96	140	115	3.40	< 10	25	< 1	< 10	0.49	27	54	8.90	0.06	3.62	0.04	0.044	< 10	12	12
30582 Dup	3.2	1.4	2320	741	< 2	83	135	109	3.32	< 10	23	< 1	< 10	0.48	25	53	6.76	0.05	3.65	0.04	0.043	< 10	12	11
27474 Ong	< 0.2	< 0.5	9	103	< 2	32	< 2	10	3.31	< 10	13	< 1	< 10	2.44	6	131	0.95	0.03	0.82	0.41	0.002	< 10	3	< 10
27474 Dup	< 0.2	< 0.5	9	102	< 2	31	< 2	9	3.32	< 10	12	< 1	< 10	2.40	6	128	0.93	0.03	0.80	0.41	0.002	< 10	2	< 10
27497 Ong	< 0.2	< 0.5	103	225	< 2	56	< 2	14	2.00	< 10	81	< 1	< 10	1.81	17	71	1.89	0.11	1.01	0.32	0.024	< 10	7	< 10
27497 Dup	< 0.2	< 0.5	107	221	< 2	56	< 2	14	2.03	< 10	81	< 1	< 10	1.82	17	72	1.92	0.11	1.02	0.32	0.024	< 10	7	< 10
27510 Ong	< 0.2	< 0.5	3	11	< 2	< 1	< 2	< 1	0.05	< 10	8	< 1	< 10	0.04	< 1	2	0.05	< 0.01	0.02	0.01	0.003	< 10	< 1	< 10
27510 Dup	< 0.2	< 0.5	3	9	< 2	< 1	< 2	< 1	0.03	< 10	8	< 1	< 10	0.03	< 1	< 2	0.04	< 0.01	0.01	0.01	0.003	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	181		79	147	24	14	0.206
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	56		82	12	11	9	1.785
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	52		53	< 10	11	12	0.037
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	30		167	< 10	6	14	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
30555 Orig	6	0.02	25	< 10	< 1	1	1.067
30555 Dup	6	0.02	25	< 10	< 1	1	1.060
30669 Orig	33	0.03	29	< 10	< 1	2	4.763
30669 Dup	33	0.03	29	< 10	< 1	2	4.226
30582 Orig	17	0.18	99	< 10	12	2	0.371
30582 Dup	17	0.17	97	< 10	12	2	0.361
27474 Orig	45	0.01	17	< 10	1	< 1	0.017
27474 Dup	44	0.01	16	< 10	1	< 1	0.018
27497 Orig	29	0.05	54	< 10	3	1	0.133
27497 Dup	30	0.05	55	< 10	3	1	0.135
27510 Orig	2	< 0.01	< 1	< 10	< 1	3	0.014
27510 Dup	1	< 0.01	< 1	< 10	< 1	3	0.015
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 23-Jun-08

Invoice No.: A08-3466

Invoice Date: 04-Jul-08

Your Reference: 22606

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

69 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3466**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

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Activation Laboratories Ltd. Report: A08-3466

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26561	5.5	3.7	1620	73	<2	466	355	53	7.39	17	32	<1	<10	5.27	77	146	2.58	0.13	1.01	0.34	0.011	<10	2	<10
26562	7.4	5.9	2960	47	<2	2660	229	51	4.66	<10	10	<1	<10	2.83	171	117	10.6	<0.01	0.35	0.46	0.015	<10	3	<10
26563	11.2	14.3	3110	46	<2	567	336	138	4.72	<10	34	<1	<16	3.21	51	135	3.38	0.09	0.53	0.33	0.013	<10	2	<10
26564	5.3	3.5	3080	16	<2	>10000	40	30	0.32	<10	9	<1	<10	0.09	674	187	45.3	0.04	0.16	0.02	0.007	13	<1	<10
26565	6.0	7.6	2900	94	<2	1530	242	122	4.44	<10	20	<1	<10	2.33	113	91	8.66	0.39	1.19	0.32	0.015	<10	4	<10
26566	3.0	4.4	1050	114	<2	973	250	100	3.50	<10	37	<1	<10	1.85	85	79	6.66	0.35	1.23	0.28	0.012	<10	4	<10
26567	13.1	6.3	6290	96	<2	2880	369	137	1.60	<10	8	<1	<33	0.43	220	61	14.4	0.21	0.95	0.09	0.021	<10	2	<10
26568	7.3	4.5	2230	126	<2	3320	282	133	2.60	<10	6	<1	24	0.25	208	81	15.0	0.44	1.62	0.06	0.016	<10	4	<10
26569	41.7	13.9	>10000	101	<2	1870	1280	219	2.26	<10	10	<1	<113	1.04	200	59	13.6	0.13	0.85	0.06	0.021	<10	2	<10
26590	0.8	0.9	1750	372	<2	1800	6	29	6.31	<10	21	<1	<10	3.09	61	146	3.85	0.03	3.62	0.32	0.003	<10	3	<10
27511	0.5	0.5	248	180	<2	84	14	14	4.43	<10	301	<1	<10	3.40	18	82	1.87	0.03	1.02	0.43	0.030	<10	7	<10
27512	0.8	0.5	809	251	<2	73	11	22	2.74	<10	40	<1	<10	2.32	21	75	2.11	0.01	1.02	0.37	0.033	<10	7	<10
27514	0.2	0.6	388	236	<2	69	2	17	3.70	<10	42	<1	<10	3.13	25	70	2.13	0.01	0.91	0.52	0.069	<10	7	<10
27515	0.4	0.7	736	255	<2	74	3	19	4.28	<10	22	<1	<10	3.53	27	75	2.15	0.01	1.05	0.39	0.042	<10	6	<10
27516	1.1	1.4	2240	305	<2	567	<2	48	2.00	<10	9	<1	<10	2.08	183	58	4.63	0.01	1.67	0.14	0.027	<10	5	<10
27517	0.3	1.0	416	258	<2	322	<2	29	1.69	<10	13	<1	<10	1.44	75	74	2.69	0.01	2.28	0.14	0.002	<10	2	<10
27518	<0.2	0.7	20	207	<2	329	<2	44	3.24	<10	5	<1	<10	0.63	49	117	3.60	<0.01	4.31	0.06	0.007	<10	1	<10
27519	<0.2	0.8	112	265	<2	346	<2	32	2.66	<10	9	<1	<10	1.39	42	106	2.71	0.01	2.69	0.10	0.007	<10	2	<10
27485	0.2	1.1	696	393	<2	49	3	21	5.02	<10	43	<1	<10	3.95	53	41	8.25	0.17	1.25	0.29	0.123	<10	11	<10
27465	<0.2	0.5	235	299	<2	70	<2	25	3.64	<10	128	<1	<10	2.58	38	66	4.79	0.50	1.61	0.18	0.054	<10	6	<10
27467	0.3	<0.5	13	141	<2	23	<2	8	5.46	<10	16	<1	<10	3.98	5	83	0.97	0.02	0.71	0.60	0.006	<10	3	<10
27468	0.3	<0.5	33	107	<2	25	<2	7	5.19	<10	20	<1	<10	3.74	6	90	0.87	0.03	0.69	0.64	0.010	<10	2	<10
27469	<0.2	<0.5	48	65	<2	23	<2	5	5.07	<10	9	<1	<10	3.66	6	95	0.62	0.01	0.68	0.53	0.011	<10	2	<10
28071	1.9	1.5	868	148	<2	407	53	33	5.69	<10	25	<1	<10	4.22	29	109	2.11	0.09	0.80	0.47	0.004	<10	3	<10
26072	4.2	2.1	2390	85	<2	1150	74	44	5.97	<10	15	<1	<10	4.41	70	86	4.26	0.02	5.66	0.45	0.004	<10	3	<10
26073	2.4	1.4	1020	101	<2	156	98	28	6.60	<10	12	<1	<10	4.77	14	96	1.26	0.01	0.66	0.69	0.009	<10	3	<10
26074	1.0	0.7	432	127	<2	142	104	24	5.94	<10	9	<1	<10	4.80	16	98	1.27	0.01	0.74	0.50	0.010	<10	4	<10
26075	1.9	1.1	857	95	<2	297	127	28	5.62	<10	9	<1	<10	4.14	33	87	1.58	0.01	0.61	0.47	0.006	<10	3	<10
26076	7.9	3.1	3650	128	<2	1070	154	61	5.69	<10	11	<1	<10	4.15	111	164	5.07	<0.01	0.75	0.48	0.008	<10	4	<10
26077	6.1	3.3	2480	129	<2	593	138	86	4.99	<10	17	<1	<10	3.55	73	140	3.61	0.07	1.70	0.26	0.008	<10	3	<10
26078	18.4	7.9	9380	111	<2	1690	174	121	5.22	<10	8	<1	<10	3.85	88	182	7.66	0.02	0.89	0.26	0.009	<10	4	<10
26079	4.9	2.9	1520	128	<2	684	68	62	6.25	<10	25	<1	<10	4.47	45	197	3.28	0.11	1.58	0.28	0.011	<10	4	<10
26080	<0.2	<0.5	4	11	<2	<1	2	1	0.03	<10	9	<1	<10	0.04	<1	2	0.05	0.01	0.02	0.02	0.004	<10	<1	<10
26014	0.2	<0.5	135	137	<2	65	6	10	4.21	<10	23	<1	<10	2.96	11	131	1.33	0.04	1.00	0.59	0.012	<10	4	<10
26015	<0.2	1.6	80	373	<2	19	<2	33	4.48	<10	210	<1	<10	2.79	24	38	8.79	0.44	1.35	0.27	0.112	<10	11	<10
26016	<0.2	1.4	67	358	<2	14	<2	33	4.35	<10	170	<1	<10	3.00	24	38	8.16	0.43	1.26	0.26	0.112	<10	11	<10
26017	<0.2	<0.5	57	133	<2	31	<2	10	5.49	<10	14	<1	<10	3.73	8	98	1.27	0.02	0.95	0.68	0.017	<10	3	<10
26018	<0.2	<0.5	38	154	<2	80	<2	16	4.58	<10	40	<1	<10	2.90	14	230	1.85	0.16	1.89	0.26	0.009	<10	3	<10
26019	<0.2	<0.5	6	152	<2	70	<2	16	5.66	<10	64	<1	<10	3.16	13	230	1.86	0.37	2.04	0.52	0.005	<10	3	<10
26020	0.8	0.7	1670	325	<2	1780	<2	30	6.48	<10	20	<1	<10	3.11	91	149	3.76	0.03	3.59	0.34	0.003	<10	3	<10
27512	0.2	<0.5	123	71	<2	45	10	9	7.65	<10	21	<1	<10	5.65	7	97	0.74	0.04	0.54	0.51	0.009	<10	2	<10
27513	0.2	<0.5	199	99	<2	67	12	25	5.09	<10	131	<1	<10	2.99	13	180	2.06	0.54	1.69	0.42	0.011	<10	5	<10
27514	<0.2	<0.5	93	61	<2	71	14	7	6.06	<10	19	<1	<10	4.53	10	56	0.68	0.03	0.48	0.53	0.014	<10	2	<10
27515	<0.2	<0.5	113	114	<2	91	20	15	6.20	<10	39	<1	<10	4.44	15	120	1.26	0.10	0.94	0.64	0.010	<10	3	<10
27515	0.3	0.5	190	156	<2	99	19	28	6.34	<10	39	<1	<10	4.38	17	113	1.84	0.21	1.24	0.53	0.012	<10	3	<10
27517	0.4	0.8	169	253	<2	117	14	40	7.03	<10	84	<1	<10	4.49	24	245	2.60	0.59	2.05	0.48	0.011	<10	5	<10
27530	<0.2	<0.5	3	11	<2	<1	<2	2	0.04	<10	10	<1	<10	0.04	<1	2	0.05	0.01	0.02	0.02	0.004	<10	<1	<10
27531	<0.2	<0.5	8	106	<2	94	2	13	9.05	<10	15	<1	<10	6.49	12	148	1.27	0.03	1.25	0.40	0.007	<10	2	<10
27532	<0.2	0.6	46	215	<2	276	4	28	3.68	<10	11	<1	<10	1.96	33	179	2.76	0.02	3.05	0.16	0.009	<10	3	<10
27533	<0.2	0.7	23	219	<2	279	<2	33	3.43	<10	11	<1	<10	1.47	35	172	3.02	0.02	3.67	0.12	0.010	<10	2	<10
27589	<0.2	<0.5	92	114	<2	62	<2	22	7.04	<10	47	<1	<10	4.63	11	174	1.61	0.18	1.45	0.36	0.006	<10	3	<10
27570	0.9	0.7	1710	330	<2	1790	3	28	6.31	<10	20	<1	<10	3.14	51	151	3.85	0.03	3.65	0.33	0.003	<10	3	<10

Activation Laboratories Ltd. Report: A08-3466

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27571	0.5	0.5	156	289	< 2	97	< 2	25	5.09	< 10	49	< 1	< 10	2.84	18	211	3.16	0.17	2.67	0.20	0.008	< 10	5	< 10
27572	< 0.2	< 0.5	39	83	< 2	46	2	8	7.63	< 10	40	< 1	< 10	5.76	7	193	0.84	0.06	0.83	0.47	0.003	< 10	3	< 10
30593	2.7	1.7	975	731	< 2	58	44	69	3.13	< 10	23	< 1	< 10	0.91	28	96	7.67	0.08	2.92	0.08	0.086	< 10	9	13
30594	12.0	1.5	1960	751	< 2	79	89	69	2.67	< 10	25	< 1	20	1.04	25	61	6.23	0.05	2.50	0.06	0.058	< 10	9	26
30595	16.2	3.9	2820	957	< 2	110	379	130	3.19	< 10	137	< 1	15	1.16	19	68	5.02	0.25	2.48	0.10	0.076	< 10	11	40
30596	2.8	1.9	1180	718	2	12	31	105	3.33	< 10	48	< 1	< 10	0.68	16	32	5.44	0.38	2.67	0.05	0.062	< 10	8	17
30597	0.6	1.1	113	731	< 2	56	22	73	3.66	< 10	98	< 1	< 10	0.58	18	57	5.23	0.43	3.77	0.06	0.084	< 10	9	< 10
30598	< 0.2	1.2	43	510	< 2	11	11	88	1.72	< 10	25	< 1	< 10	0.28	7	160	2.56	0.11	1.68	0.03	0.033	< 10	3	< 10
30599	< 0.2	1.1	100	930	< 2	6	4	94	3.44	< 10	114	< 1	< 10	0.42	15	53	5.52	0.42	2.92	0.04	0.086	< 10	9	< 10
30600	1.0	2.8	8900	268	< 2	> 10000	4	40	0.49	< 10	8	< 1	< 10	0.36	565	30	31.6	0.11	0.16	0.07	0.046	< 10	3	< 10
30601	< 0.2	1.1	99	1050	3	12	< 2	85	3.92	< 10	95	< 1	< 10	0.51	15	113	6.02	0.59	3.81	0.05	0.091	< 10	10	< 10
30602	0.2	1.0	162	709	5	13	6	231	2.60	< 10	57	< 1	< 10	0.38	11	65	4.44	0.28	2.08	0.04	0.020	< 10	4	< 10
30603	< 0.2	0.8	61	642	3	11	8	152	2.65	< 10	118	< 1	< 10	0.47	7	168	3.48	0.43	1.79	0.06	0.014	< 10	4	< 10
30604	1.7	2.2	1840	734	< 2	37	5	340	3.19	< 10	63	< 1	< 10	0.62	25	65	7.48	0.38	2.41	0.07	0.033	< 10	7	< 10
30605	0.6	2.6	1280	598	< 2	19	9	350	2.45	< 10	59	< 1	< 10	0.30	28	95	5.45	0.32	1.83	0.04	0.021	< 10	4	< 10
30606	< 0.2	1.1	207	859	5	14	6	332	2.64	< 10	79	< 1	< 10	0.43	10	166	3.64	0.40	1.85	0.06	0.023	< 10	3	< 10
30607	< 0.2	0.7	32	492	3	33	5	154	2.19	< 10	82	< 1	< 10	0.18	7	180	3.06	0.39	1.68	0.04	0.008	< 10	3	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26061	102	0.03	23	< 10	< 1	< 1	0.850
26062	64	0.01	26	< 10	2	3	4.079
26063	47	0.03	55	< 10	1	1	1.385
26064	2	0.01	84	< 10	< 1	14	4.133
26065	35	0.09	117	< 10	2	3	3.056
26066	17	0.07	126	< 10	1	3	2.018
26067	6	0.05	90	< 10	2	5	6.076
26068	6	0.07	99	< 10	1	6	6.412
26069	9	0.04	97	< 10	3	5	5.502
26060	67	0.02	36	< 10	< 1	1	0.510
27511	137	0.09	72	< 10	4	< 1	0.122
27512	64	0.06	55	< 10	4	1	0.232
27514	67	0.08	52	< 10	8	2	0.260
27515	141	0.10	52	< 10	4	1	0.240
27516	40	0.07	52	52	6	5	1.496
27517	5	0.03	24	< 10	2	2	0.302
27518	1	0.02	14	< 10	< 1	1	0.015
27519	13	0.03	20	< 10	< 1	1	0.131
27485	88	0.13	54	< 10	17	4	1.847
27465	33	0.13	49	< 10	8	3	0.656
27467	95	0.02	14	< 10	< 1	< 1	0.045
27468	76	0.03	14	< 10	< 1	< 1	0.031
27466	73	0.02	12	< 10	< 1	< 1	0.030
28071	82	0.02	15	< 10	< 1	< 1	0.024
26072	88	0.01	16	< 10	< 1	1	1.915
26073	108	0.02	16	< 10	< 1	< 1	0.316
26074	105	0.02	19	< 10	< 1	< 1	0.233
26075	101	0.02	16	< 10	< 1	< 1	0.480
26076	103	0.02	29	< 10	< 1	2	2.133
26077	64	0.03	25	< 10	< 1	1	1.157
26078	82	0.03	43	< 10	< 1	3	3.146
26079	72	0.05	35	< 10	1	1	0.913
26080	1	< 0.01	< 1	< 10	< 1	4	0.018
26014	66	0.06	31	< 10	1	1	0.093
26015	105	0.17	95	< 10	20	4	0.235
26016	117	0.15	83	< 10	19	4	0.233
26017	85	0.03	16	< 10	1	< 1	0.032
26018	58	0.05	33	< 10	2	1	0.026
26019	67	0.07	39	< 10	1	< 1	0.019
26020	67	0.02	35	< 10	< 1	1	0.515
27612	96	0.02	14	< 10	< 1	< 1	0.078
27613	50	0.08	36	< 10	2	1	0.115
27614	89	0.02	11	< 10	< 1	< 1	0.108
27615	86	0.04	24	< 10	< 1	< 1	0.122
27616	82	0.04	28	< 10	< 1	< 1	0.123
27617	60	0.07	46	< 10	< 1	1	0.086
27630	2	< 0.01	< 1	< 10	< 1	4	0.018
27631	174	0.03	20	< 10	< 1	< 1	0.036
27632	27	0.04	26	< 10	1	1	0.073
27633	16	0.05	27	< 10	< 1	1	0.030
27669	88	0.03	28	< 10	2	< 1	0.076
27670	68	0.02	36	< 10	< 1	2	0.517

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27571	38	0.05	36	< 10	5	2	0.102
27572	98	0.02	19	< 10	< 1	< 1	0.037
30563	21	0.18	148	< 10	12	3	0.196
30564	22	0.11	153	< 10	9	3	0.259
30565	24	0.14	93	< 10	13	4	0.404
30566	15	0.13	43	< 10	15	7	1.697
30567	20	0.17	69	< 10	20	6	0.103
30568	5	0.11	24	< 10	9	6	0.086
30569	8	0.18	66	< 10	17	7	0.349
30600	14	0.09	99	< 10	15	16	7.154
30601	10	0.20	73	< 10	21	8	0.118
30602	9	0.11	16	< 10	20	14	0.454
30603	10	0.10	14	< 10	20	17	0.126
30604	16	0.16	45	< 10	18	10	1.522
30605	7	0.08	15	< 10	20	15	1.344
30606	8	0.10	16	< 10	25	19	0.963
30607	6	0.07	12	< 10	17	15	0.039

Activation Laboratories Ltd. Report: A08-3466

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.0	3.4	1130	741	14	36	998	616	0.34	361	280	<1	1420	0.78	10	6	24.9	0.02	0.13	0.06	0.038	83	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.7	0.7	6390	134	318	39	41	52	2.66	94	36	1	17	0.93	15	52	3.28	1.22	1.67	0.11	0.114	<10	7	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.8	5.1	81	1140	<2	19	798	588	3.70	15	1170	1	<10	0.87	11	28	2.32	0.89	0.59	0.23	0.059	38	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	67	1050	<2	24	91	118	7.22	229	974	<1	<10	0.17	14	83	5.44	0.82	0.44	0.14	0.031	<10	21	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2750			2380											6.02							
OREAS 13P Cert			2500			2260											7.58							
26088 Ong	3.0	4.3	1050	113	<2	973	250	100	3.63	<10	38	<1	<10	1.84	65	79	6.66	0.35	1.23	0.28	0.012	<10	4	<10
26088 Dup	3.1	4.5	1050	115	<2	973	251	101	3.45	<10	37	<1	<10	1.87	55	79	6.67	0.35	1.23	0.28	0.011	<10	4	<10
27466 Ong	<0.2	0.6	244	301	<2	71	<2	25	3.76	<10	141	<1	<10	2.60	38	66	4.83	0.51	1.62	0.19	0.056	<10	6	<10
27466 Dup	<0.2	0.6	227	298	<2	69	<2	24	3.63	<10	114	<1	<10	2.68	38	66	4.75	0.50	1.60	0.17	0.054	<10	6	<10
26080 Ong	<0.2	<0.5	4	12	<2	2	<2	1	0.04	<10	10	<1	<10	0.04	<1	2	0.05	0.01	0.02	0.02	0.004	<10	<1	<10
26080 Dup	<0.2	<0.5	4	10	<2	<1	<2	1	0.03	<10	8	<1	<10	0.04	<1	2	0.05	0.01	0.02	0.01	0.004	<10	<1	<10
27530 Ong	<0.2	<0.5	4	11	<2	<1	<2	2	0.05	<10	10	<1	<10	0.04	<1	2	0.06	0.01	0.02	0.02	0.004	<10	<1	<10
27530 Dup	<0.2	<0.5	3	11	<2	<1	<2	1	0.03	<10	10	<1	<10	0.04	<1	3	0.05	0.01	0.02	0.02	0.004	<10	<1	<10
30607 Ong	<0.2	0.7	32	489	2	33	5	152	2.17	<10	81	<1	<10	0.18	7	179	3.04	0.38	1.87	0.04	0.008	<10	3	<10
30607 Dup	<0.2	0.6	32	496	3	33	5	156	2.22	<10	83	<1	<10	0.18	8	182	3.12	0.39	1.70	0.04	0.008	<10	3	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	189		76	139	23	16	0.204
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	69		83	12	11	10	1.811
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	94		64	< 10	11	12	0.039
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	32		178	< 10	6	12	0.014
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
26085 Orig	17	0.07	125	< 10	1	3	2.038
26085 Dup	17	0.07	126	< 10	1	3	1.997
27466 Orig	33	0.13	90	< 10	8	3	0.664
27466 Dup	32	0.12	49	< 10	8	2	0.649
26080 Orig	2	< 0.01	< 1	< 10	1	4	0.018
26080 Dup	1	< 0.01	< 1	< 10	< 1	4	0.017
27530 Orig	2	< 0.01	< 1	< 10	< 1	4	0.018
27530 Dup	1	< 0.01	< 1	< 10	1	4	0.018
30607 Orig	8	0.07	12	< 10	17	15	0.038
30607 Dup	7	0.07	12	< 10	17	15	0.040
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 23-Jun-08

Invoice No.: A08-3464

Invoice Date: 11-Jul-08

Your Reference: 22607

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

80 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3464**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3464

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26031	5.9	1.0	5760	305	<2	650	7	86	4.05	<10	10	<1	<10	1.24	108	165	5.10	0.02	4.84	0.12	0.015	<10	3	<10
26032	0.5	<0.5	211	161	<2	360	3	44	3.05	<10	5	<1	<10	0.35	50	96	3.05	<0.01	3.75	0.04	0.008	<10	<1	<10
26033	<0.2	<0.5	151	191	<2	200	<2	25	3.43	<10	8	<1	<10	2.02	32	168	2.24	0.01	2.81	0.12	0.013	<10	2	<10
26034	<0.2	<0.5	26	177	<2	224	<2	24	3.72	<10	7	<1	<10	1.88	30	134	2.44	0.01	2.84	0.11	0.014	<10	2	<10
26035	<0.2	<0.5	18	337	<2	181	<2	27	4.65	<10	8	<1	<10	2.30	27	345	3.18	0.01	2.91	0.13	0.003	<10	2	<10
26036	<0.2	<0.5	141	132	<2	124	<2	12	3.52	<10	63	<1	<10	2.54	22	254	1.29	0.09	1.02	0.22	0.010	<10	2	<10
26037	0.5	<0.5	400	237	<2	17	2	88	3.10	<10	149	<1	<10	0.57	7	132	2.88	0.56	1.91	0.19	0.009	<10	4	<10
26038	<0.2	<0.5	143	308	2	11	<2	95	3.13	<10	208	<1	<10	0.28	8	92	3.26	0.56	2.08	0.12	0.011	<10	5	<10
26039	<0.2	<0.5	55	79	<2	26	<2	14	8.50	<10	16	<1	<10	0.02	4	84	0.62	0.52	0.51	0.48	0.005	<10	1	<10
26040	0.5	<0.5	1670	301	<2	1640	<2	24	5.97	<10	18	<1	<10	2.93	61	136	3.48	0.03	3.28	0.32	0.003	<10	3	<10
26041	<0.2	<0.5	33	131	<2	73	3	10	3.29	<10	9	<1	<10	2.21	11	128	1.17	0.02	1.08	0.28	0.010	<10	2	<10
26042	<0.2	<0.5	165	70	<2	96	7	7	8.62	<10	17	<1	<10	5.79	11	90	0.77	0.01	0.40	0.89	0.012	<10	2	<10
26043	<0.2	<0.5	189	73	<2	67	3	8	7.44	<10	20	<1	<10	5.01	8	121	0.73	0.02	0.53	0.78	0.003	<10	2	<10
26044	0.5	<0.5	391	286	<2	33	<2	52	3.58	<10	254	<1	<10	0.33	13	97	3.64	0.82	2.03	0.14	0.009	<10	8	<10
26045	1.9	1.1	1210	240	<2	58	4	51	3.33	<10	313	<1	<10	0.43	16	92	3.56	0.51	1.73	0.14	0.008	<10	6	<10
26046	1.6	0.8	727	252	<2	62	2	51	2.88	<10	102	<1	<10	0.44	16	221	3.03	0.47	2.15	0.16	0.010	<10	6	<10
26047	0.4	<0.5	201	164	<2	120	7	20	7.96	<10	47	<1	<10	5.34	18	321	2.05	0.19	1.41	0.44	0.007	<10	3	<10
26048	<0.2	<0.5	111	73	<2	66	7	7	8.72	<10	18	<1	<10	0.03	9	116	0.82	0.03	0.60	0.58	0.009	<10	2	<10
26049	0.8	<0.5	299	95	<2	114	9	11	8.88	<10	21	<1	<10	8.21	14	174	1.10	0.03	0.57	0.85	0.014	<10	3	<10
26050	0.9	1.1	8770	226	<2	>10000	5	39	0.47	<10	8	<1	<10	0.35	577	31	32.2	0.11	0.15	0.07	0.046	<10	3	<10
26051	0.7	<0.5	364	70	<2	112	8	10	7.78	<10	22	<1	<10	5.52	13	112	0.85	0.06	0.47	0.68	0.006	<10	2	<10
26052	<0.2	<0.5	38	73	<2	40	6	6	7.32	<10	12	<1	<10	5.10	6	109	0.70	0.03	0.58	0.65	0.007	<10	2	<10
26053	<0.2	<0.5	26	80	<2	33	8	6	6.18	<10	9	<1	<10	4.58	5	92	0.64	<0.01	0.51	0.65	0.010	<10	2	<10
26054	0.3	<0.5	188	64	<2	64	7	5	6.59	<10	12	<1	<10	5.17	8	98	0.69	0.01	0.47	0.62	0.008	<10	2	<10
26055	0.5	<0.5	215	69	<2	62	6	8	6.87	<10	11	<1	<10	5.10	8	82	0.64	<0.01	0.42	0.62	0.010	<10	2	<10
26056	0.3	<0.5	174	55	<2	62	6	6	6.43	<10	12	<1	<10	4.51	7	67	0.62	<0.01	0.35	0.57	0.010	<10	2	<10
26057	0.2	<0.5	185	82	<2	38	9	4	5.88	<10	10	<1	<10	4.43	6	82	0.55	<0.01	0.40	0.54	0.007	<10	2	<10
26058	0.3	<0.5	171	66	<2	44	10	8	4.93	<10	13	<1	<10	3.53	9	90	0.73	0.02	0.52	0.51	0.009	<10	2	<10
26059	0.3	<0.5	131	92	<2	85	13	8	6.44	<10	12	<1	<10	4.45	11	91	0.86	<0.01	0.55	0.64	0.011	<10	3	<10
26060	<0.2	<0.5	3	7	<2	<1	<2	2	0.05	<10	8	<1	<10	0.05	<1	2	0.04	<0.01	0.02	0.01	0.004	<10	<1	<10
26061	0.2	<0.5	91	87	<2	47	14	6	5.65	<10	11	<1	<10	4.26	8	82	0.73	<0.01	0.62	0.59	0.010	<10	3	<10
26062	0.2	<0.5	148	83	<2	43	13	7	5.78	<10	13	<1	<10	4.29	8	84	0.78	<0.01	0.53	0.60	0.011	<10	3	<10
26063	0.3	<0.5	136	78	<2	96	15	8	5.25	<10	12	<1	<10	4.00	15	64	0.81	<0.01	0.51	0.53	0.009	<10	2	<10
26064	0.3	<0.5	194	108	<2	250	19	12	6.27	<10	14	<1	<10	4.69	32	70	1.50	0.01	0.23	0.63	0.010	<10	3	<10
26065	0.4	<0.5	228	105	<2	96	16	11	6.73	<10	15	<1	<10	5.10	14	102	1.03	<0.01	0.63	0.60	0.011	<10	3	<10
26066	1.2	<0.5	663	90	<2	153	36	18	6.04	<10	11	<1	<10	4.27	15	98	0.96	<0.01	0.57	0.63	0.012	<10	3	<10
26067	2.3	1.4	1180	108	<2	293	40	33	5.43	<10	13	<1	<10	4.12	25	108	1.80	0.01	0.62	0.58	0.010	<10	3	<10
26068	3.1	1.9	1630	101	<2	628	43	39	4.98	<10	17	<1	<10	3.77	55	98	2.76	0.02	0.53	0.53	0.012	<10	3	<10
26069	12.5	4.0	2430	130	<2	121	22	114	2.39	<10	15	<1	<10	1.08	24	36	3.02	0.12	1.15	0.18	0.021	<10	1	<10
26070	0.8	<0.5	1620	306	<2	1690	<2	28	5.83	<10	18	<1	<10	3.00	52	142	3.51	0.03	3.34	0.32	0.003	<10	3	<10
30365	11.1	4.5	2630	91	<2	216	20	89	3.27	<10	9	<1	<10	2.21	29	81	2.65	0.03	0.40	0.37	0.035	<10	1	<10
30367	8.3	3.7	2210	198	<2	223	32	105	3.97	<10	48	<1	<10	1.95	32	232	3.69	0.18	1.43	0.40	0.008	<10	4	<10
30368	0.9	<0.5	255	122	<2	41	39	21	6.25	<10	20	<1	<10	4.40	7	104	0.90	0.04	0.81	0.63	0.007	<10	3	<10
30369	1.0	<0.5	236	100	<2	40	30	19	5.98	<10	20	<1	<10	4.28	7	91	0.80	0.04	0.57	0.60	0.006	<10	2	<10
30370	0.8	<0.5	1470	301	<2	1600	2	25	5.81	<10	18	<1	<10	2.90	59	140	3.34	0.03	3.22	0.31	0.002	<10	3	<10
30371	0.5	<0.5	118	153	<2	73	25	16	6.60	<10	12	<1	<10	4.98	13	110	1.39	0.02	0.92	0.59	0.006	<10	4	<10
30372	<0.2	<0.5	19	114	<2	42	11	8	3.04	<10	9	<1	<10	2.30	7	129	0.79	0.01	0.66	0.31	0.006	<10	2	<10
30373	0.3	<0.5	219	128	<2	138	21	12	5.92	<10	10	<1	<10	4.44	24	95	1.47	0.01	0.75	0.53	0.013	<10	3	<10
30374	0.3	<0.5	190	138	<2	132	22	13	6.25	<10	12	<1	<10	4.64	20	96	1.45	0.02	0.83	0.60	0.012	<10	4	<10
30375	<0.2	<0.5	92	174	<2	87	25	14	6.98	<10	13	<1	<10	4.77	14	182	1.64	0.02	1.07	0.69	0.012	<10	6	<10
30376	1.0	0.6	830	234	<2	919	19	18	6.10	<10	12	<1	<10	4.31	86	142	5.04	0.02	1.29	0.52	0.011	<10	5	<10
30377	0.5	<0.5	163	117	<2	83	22	9	6.28	<10	13	<1	<10	4.75	11	90	1.03	0.01	0.53	0.62	0.015	<10	3	<10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30378	0.4	< 0.5	172	116	< 2	49	13	9	5.22	< 10	12	< 1	< 10	3.95	9	90	0.95	0.01	0.66	0.55	0.14	< 10	3	< 10
30375	0.3	< 0.5	141	160	< 2	80	13	10	5.72	< 10	12	< 1	< 10	4.36	14	119	1.25	0.01	0.83	0.58	0.012	< 10	4	< 10
30380	< 0.2	< 0.5	3	10	< 2	< 1	< 2	1	0.04	< 10	7	< 1	< 10	0.04	< 1	< 2	0.04	< 0.01	0.02	0.01	0.003	< 10	< 1	< 10
30381	0.5	< 0.5	260	107	< 2	161	16	11	6.17	< 10	18	< 1	< 10	4.58	22	91	1.32	0.04	0.83	0.46	0.007	< 10	3	< 10
30382	< 0.2	< 0.5	53	173	< 2	60	16	12	5.31	< 10	9	< 1	< 10	3.95	11	83	1.36	0.02	1.13	0.41	0.008	< 10	3	< 10
30383	< 0.2	< 0.5	86	166	< 2	50	16	11	4.92	< 10	11	< 1	< 10	3.64	9	92	1.17	0.02	1.00	0.45	0.009	< 10	3	< 10
30384	0.7	< 0.5	267	173	< 2	262	39	16	4.87	< 10	10	< 1	< 10	3.57	24	92	1.92	0.02	1.11	0.49	0.011	< 10	3	< 10
30385	2.6	0.9	2490	202	< 2	362	44	37	4.40	< 10	19	< 1	< 10	2.81	83	187	3.60	0.08	1.88	0.21	0.007	< 10	3	< 10
30386	0.9	< 0.5	446	117	< 2	173	82	19	6.56	< 10	10	< 1	< 10	4.82	16	141	1.34	0.05	1.20	0.36	0.011	< 10	2	< 10
30387	0.6	0.7	237	148	< 2	336	77	28	5.42	< 10	14	< 1	< 10	3.66	31	204	1.90	0.07	1.81	0.21	0.006	< 10	2	< 10
30388	5.7	3.5	3560	257	< 2	970	98	147	3.72	< 10	16	< 1	< 10	1.79	151	167	8.05	0.08	2.44	0.11	0.008	< 10	2	< 10
30389	2.6	3.3	1540	263	< 2	1170	111	239	3.58	< 10	14	< 1	< 10	1.43	85	191	6.46	0.06	2.30	0.19	0.008	< 10	3	< 10
30390	0.6	< 0.5	1520	291	< 2	1580	2	26	5.65	< 10	18	< 1	< 10	2.83	58	135	3.33	0.03	3.16	0.30	0.002	< 10	3	< 10
30391	8.7	15.3	4900	202	< 2	1580	104	593	2.72	< 10	11	< 1	< 10	1.27	174	182	8.08	0.04	1.70	0.16	0.010	< 10	2	< 10
30392	11.6	15.0	7780	251	< 2	2670	70	590	2.00	< 10	15	< 1	< 10	0.74	813	109	17.3	0.05	1.35	0.09	0.011	< 10	2	< 10
30393	16.9	80.9	> 10000	89	5	3820	66	2350	0.84	< 10	16	< 1	< 10	0.69	413	79	17.4	0.09	0.32	0.02	0.023	< 10	< 1	11
30394	7.5	14.2	3700	62	5	872	14	476	0.16	< 10	9	< 1	< 10	0.10	33	223	3.91	0.01	0.11	0.02	0.005	< 10	< 1	< 10
30395	1.8	8.2	992	286	< 2	2630	32	353	2.01	< 10	47	< 1	< 10	1.06	79	74	14.6	0.26	1.40	0.07	0.069	< 10	6	< 10
30396	22.2	15.7	> 10000	258	< 2	1000	128	898	2.14	< 10	59	< 1	< 10	0.82	86	111	9.24	0.54	1.48	0.13	0.085	< 10	7	10
30397	39.3	59.3	> 10000	129	< 2	4010	197	1650	1.14	< 10	7	< 1	< 10	0.32	210	110	23.7	0.25	0.61	0.12	0.018	< 10	2	21
30398	22.7	32.7	> 10000	51	< 2	9200	91	1040	0.28	< 10	11	< 1	< 10	0.10	432	12	40.2	0.03	0.10	0.02	0.008	< 10	< 1	13
30399	40.5	81.2	> 10000	127	< 2	6360	123	2740	0.86	< 10	12	< 1	< 10	0.22	310	68	33.0	0.19	0.46	0.06	0.019	< 10	1	19
30400	0.9	1.1	8150	228	< 2	> 10000	4	42	0.47	< 10	23	< 1	< 10	0.35	563	30	30.7	0.10	0.14	0.07	0.044	< 10	3	< 10
30401	24.0	77.4	> 10000	154	< 2	6380	230	3020	1.08	< 10	14	< 1	< 10	0.28	335	64	32.3	0.04	0.61	0.06	0.015	< 10	2	17
30402	32.6	52.2	> 10000	94	< 2	8950	171	1690	0.52	< 10	21	< 1	12	0.14	381	12	40.6	0.05	0.25	0.03	0.008	11	< 1	14
30403	27.3	50.1	> 10000	202	< 2	6260	406	2330	1.12	< 10	11	< 1	20	0.24	620	42	26.7	0.22	0.78	0.06	0.013	< 10	3	17
30404	29.1	39.1	> 10000	83	< 2	7280	174	1310	0.78	< 10	11	< 1	< 10	0.32	251	28	34.1	0.03	0.18	0.07	0.017	10	< 1	16
30405	16.5	81.7	> 10000	137	< 2	6920	165	3160	0.91	< 10	26	< 1	< 10	0.22	283	34	32.1	0.14	0.46	0.06	0.012	< 10	1	21

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26031	10	0.04	29	< 10	2	2	0.904
26032	< 1	0.02	14	< 10	< 1	1	0.083
26033	42	0.03	21	< 10	1	1	0.041
26034	39	0.03	22	< 10	< 1	1	0.021
26035	40	0.03	34	< 10	< 1	1	0.018
26036	29	0.03	22	< 10	< 1	< 1	0.176
26037	13	0.07	15	< 10	6	6	0.114
26038	10	0.09	19	< 10	5	4	0.080
26039	80	< 0.01	8	< 10	< 1	< 1	0.043
26040	62	0.02	32	< 10	< 1	1	0.483
26041	48	0.01	18	< 10	< 1	< 1	0.033
26042	111	0.02	12	< 10	< 1	< 1	0.147
26043	92	0.01	13	< 10	< 1	< 1	0.088
26044	11	0.11	32	< 10	2	2	0.300
26045	13	0.08	24	< 10	2	2	0.634
26046	11	0.09	30	< 10	3	3	0.153
26047	74	0.03	36	< 10	2	< 1	0.210
26048	102	0.03	17	< 10	2	< 1	0.094
26049	111	0.03	19	< 10	3	1	0.159
26050	13	0.07	60	< 10	15	17	6.618
26051	107	0.02	14	< 10	< 1	< 1	0.151
26052	95	0.02	16	< 10	< 1	< 1	0.042
26053	93	0.02	16	< 10	< 1	< 1	0.038
26054	103	0.02	13	< 10	< 1	< 1	0.087
26055	102	0.02	12	< 10	< 1	< 1	0.101
26056	90	0.02	10	< 10	< 1	< 1	0.090
26057	82	0.02	12	< 10	< 1	< 1	0.066
26058	70	0.02	14	< 10	1	< 1	0.097
26059	93	0.02	16	< 10	< 1	< 1	0.112
26060	2	< 0.01	< 1	< 10	< 1	4	0.017
26061	87	0.02	16	< 10	< 1	< 1	0.066
26062	91	0.02	16	< 10	< 1	< 1	0.075
26063	84	0.02	14	< 10	< 1	< 1	0.141
26064	96	0.04	20	< 10	< 1	< 1	0.434
26065	107	0.02	17	< 10	< 1	< 1	0.127
26066	94	0.02	13	< 10	< 1	< 1	0.232
26067	91	0.01	13	< 10	< 1	< 1	0.392
26068	83	0.02	16	< 10	< 1	1	1.281
26069	16	0.05	27	< 10	5	3	0.939
26070	83	0.02	33	< 10	< 1	1	0.489
30365	29	0.07	25	< 10	4	2	1.174
30367	33	0.08	51	< 10	2	2	0.905
30368	74	0.02	20	< 10	< 1	< 1	0.073
30369	73	0.02	16	< 10	< 1	< 1	0.066
30370	80	0.02	32	< 10	< 1	1	0.473
30371	92	0.03	25	< 10	2	< 1	0.143
30372	43	0.02	13	< 10	< 1	< 1	0.069
30373	85	0.03	24	< 10	1	< 1	0.339
30374	88	0.03	23	< 10	1	< 1	0.259
30375	91	0.04	36	< 10	2	< 1	0.153
30376	83	0.05	46	< 10	2	2	1.965
30377	100	0.03	20	< 10	< 1	< 1	0.151

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30378	81	0.03	20	< 10	< 1	< 1	0.085
30379	97	0.03	24	< 10	1	< 1	0.136
30380	1	< 0.01	< 1	< 10	< 1	4	0.016
30381	92	0.02	18	< 10	< 1	< 1	0.238
30382	75	0.03	19	< 10	< 1	< 1	0.048
30383	72	0.02	20	< 10	< 1	< 1	0.040
30384	69	0.02	20	< 10	< 1	< 1	0.326
30385	39	0.05	29	< 10	2	2	1.240
30386	71	0.02	18	< 10	< 1	< 1	0.145
30387	45	0.03	17	< 10	< 1	< 1	0.217
30388	22	0.03	23	< 10	< 1	2	2.166
30389	19	0.04	49	< 10	1	2	2.105
30390	59	0.02	31	< 10	< 1	2	0.467
30391	16	0.02	31	< 10	1	3	3.799
30392	9	0.03	37	< 10	2	5	7.649
30393	5	0.04	23	< 10	2	6	8.438
30394	2	0.01	6	< 10	< 1	1	2.210
30395	10	0.13	80	< 10	9	6	4.486
30396	11	0.12	90	< 10	8	4	3.215
30397	6	0.05	108	12	1	7	7.194
30398	2	0.01	106	< 10	< 1	11	3.488
30399	4	0.04	104	19	2	9	5.408
30400	14	0.07	56	< 10	14	16	5.811
30401	5	0.02	79	18	1	9	4.270
30402	3	0.01	69	27	< 1	11	3.834
30403	3	0.04	87	18	1	8	6.216
30404	8	0.01	72	18	1	9	5.355
30405	4	0.03	61	17	1	9	4.010

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	27.0	2.0	1170	753	15	36	548	534	0.32	369	254	<1	1440	0.78	9	6	24.8	0.02	0.13	0.06	0.034	80	1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	0.5	6360	135	328	41	42	55	2.88	96	33	1	19	0.95	15	56	3.39	1.33	1.65	0.11	0.115	<10	7	<10
GXR-4 Cert	4.00	0.860	6920	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	17.3	4.0	78	980	<2	16	715	526	3.42	14	1200	1	<10	0.81	9	24	1.97	4.09	0.50	0.25	0.052	33	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.8	76	1020	<2	25	93	119	7.50	231	827	<1	<10	0.15	15	82	5.46	0.84	0.41	0.14	0.031	<10	21	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2650			2340											6.15							
OREAS 13P Cert			2500			2280											7.58							
26031 Ong	4.0	0.6	4030	205	<2	443	4	65	2.83	<10	7	<1	<10	0.83	71	112	3.43	0.01	3.27	0.08	0.010	<10	2	<10
26031 Dup	7.8	1.5	7500	407	<2	858	9	127	5.28	<10	14	<1	<10	1.64	145	219	6.76	0.02	6.42	0.15	0.020	<10	4	<10
26044 Ong	0.5	0.6	402	287	<2	33	<2	52	3.63	<10	355	<1	<10	0.34	13	97	3.65	0.82	2.03	0.14	0.009	<10	8	<10
26044 Dup	0.5	<0.5	380	285	<2	34	3	53	3.63	<10	293	<1	<10	0.33	13	96	3.62	0.81	2.02	0.14	0.009	<10	8	<10
26058 Ong	0.4	<0.5	174	66	<2	46	10	8	5.15	<10	13	<1	<10	3.55	9	91	0.75	0.02	0.54	0.55	0.008	<10	2	<10
26058 Dup	0.3	<0.5	167	66	<2	43	10	8	4.67	<10	13	<1	<10	3.50	9	89	0.71	0.02	0.50	0.47	0.009	<10	2	<10
30371 Ong	0.5	<0.5	116	149	<2	72	25	16	6.70	<10	12	<1	<10	4.90	13	86	1.36	0.02	0.80	0.58	0.006	<10	4	<10
30371 Dup	0.5	<0.5	119	158	<2	75	26	17	6.91	<10	13	<1	<10	5.05	13	121	1.42	0.02	0.93	0.60	0.007	<10	4	<10
30385 Ong	2.8	0.7	2430	200	<2	380	48	39	4.51	<10	19	<1	<10	2.80	81	187	3.58	0.08	1.88	0.21	0.007	<10	3	<10
30385 Dup	2.7	1.0	2370	203	<2	363	42	36	4.28	<10	19	<1	<10	2.83	85	187	3.61	0.08	1.85	0.20	0.008	<10	3	<10
30389 Ong	22.8	32.6	>10000	51	<2	8280	93	1070	0.28	<10	11	<1	<10	0.10	437	12	40.4	0.03	0.10	0.02	0.009	<10	<1	14
30389 Dup	22.6	32.4	>10000	50	<2	8120	88	1010	0.28	<10	11	<1	<10	0.09	426	11	40.0	0.03	0.11	0.02	0.008	<10	<1	13
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	8	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	143	??	127	24	16	0.198	
GXR-1 Cert	275	80.0	164	32.0	38.0	0.257	
GXR-4 Meas	69	64	12	12	10	1.814	
GXR-4 Cert	221	67.0	30.8	14.0	186	1.77	
GXR-2 Meas	89	46	< 10	10	12	0.033	
GXR-2 Cert	180	52.0	1.90	17.0	269	0.0313	
GXR-6 Meas	27	175	< 10	6	13	0.016	
GXR-6 Cert	35.0	186	1.90	14.0	110	0.0160	
OREAS 13P Meas							
OREAS 13P Cert							
26031 Orig	7	0.03	19	< 10	1	1	0.540
26031 Dup	13	0.05	39	< 10	2	3	1.067
26044 Orig	11	0.11	32	< 10	2	3	0.307
26044 Dup	11	0.11	32	< 10	2	2	0.292
26055 Orig	72	0.02	15	< 10	1	< 1	0.096
26055 Dup	67	0.02	14	< 10	1	< 1	0.098
30371 Orig	90	0.03	24	< 10	2	< 1	0.142
30371 Dup	93	0.03	25	< 10	2	< 1	0.144
30385 Orig	39	0.05	29	< 10	2	2	1.231
30385 Dup	40	0.05	29	< 10	2	2	1.248
30398 Orig	2	0.01	107	< 10	< 1	12	3.723
30398 Dup	2	0.01	106	< 10	< 1	11	3.253
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 02-Jul-08
Invoice No.: A08-3662
Invoice Date: 16-Jul-08
Your Reference: DOSSIER 22612

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

45 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3662**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3662

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	<10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
30405	29.2	49.9	> 10000	225	< 2	5100	215	1850	1.60	< 10	6	< 1	< 10	0.44	155	58	28.3	0.22	0.85	0.13	0.018	< 10	3	21
30407	28.2	37.5	> 10000	336	< 2	2700	349	1750	2.81	< 10	11	< 1	< 10	1.16	142	84	18.4	0.13	1.00	0.27	0.025	< 10	3	12
30408	18.3	15.7	8240	309	< 2	1880	287	954	2.45	< 10	20	< 1	< 10	1.21	113	118	12.2	0.08	0.93	0.15	0.017	< 10	5	< 10
30409	13.9	13.2	6830	328	< 2	1580	366	797	2.50	< 10	33	< 1	< 10	1.14	149	85	11.4	0.15	1.25	0.16	0.015	< 10	4	< 10
30411	9.4	5.6	4280	398	< 2	1280	348	717	4.16	< 10	34	< 1	< 10	1.28	314	62	12.3	0.40	2.63	0.29	0.019	< 10	7	15
30412	7.0	3.1	2430	421	< 2	1130	405	701	5.21	< 10	28	< 1	12	1.49	79	99	10.2	0.71	3.63	0.30	0.018	< 10	8	14
30413	14.0	10.0	7010	278	< 2	1480	331	751	3.35	< 10	20	< 1	< 10	1.54	81	192	10.0	0.27	1.58	0.15	0.018	< 10	3	< 10
30414	6.7	11.1	3010	522	2	869	88	554	2.98	< 10	36	< 1	< 10	0.79	41	79	7.88	0.76	2.38	0.06	0.046	< 10	7	< 10
30415	0.8	1.4	810	430	< 2	280	24	355	3.10	< 10	43	< 1	< 10	0.56	54	60	5.70	0.70	2.31	0.05	0.058	< 10	7	< 10
30416	< 0.2	1.5	91	949	3	14	7	144	3.97	< 10	174	< 1	< 10	0.86	12	76	5.21	1.14	3.13	0.07	0.076	< 10	8	< 10
30417	< 0.2	0.7	9	833	< 2	10	4	131	4.38	< 10	223	< 1	< 10	0.82	12	79	5.18	1.33	3.15	0.09	0.082	< 10	11	< 10
30418	< 0.2	< 0.5	11	505	3	9	5	128	2.50	< 10	110	< 1	< 10	0.59	9	107	3.25	0.46	1.78	0.06	0.045	< 10	7	< 10
30419	< 0.2	0.6	12	810	< 2	11	11	140	3.54	< 10	167	< 1	< 10	1.29	11	55	4.36	0.83	2.37	0.09	0.077	< 10	9	< 10
30420	0.7	0.5	1590	309	< 2	1620	< 2	30	5.75	< 10	21	< 1	< 10	2.97	56	139	3.60	0.03	3.38	0.32	0.003	< 10	3	< 10
30421	< 0.2	0.7	86	649	< 2	21	15	151	3.65	< 10	191	< 1	< 10	1.33	11	85	4.89	1.27	2.72	0.08	0.121	< 10	10	< 10
30422	< 0.2	0.7	6	457	3	12	9	136	4.07	< 10	238	< 1	< 10	0.88	11	92	4.40	1.14	2.41	0.14	0.084	< 10	10	< 10
30423	< 0.2	0.5	10	516	< 2	9	8	124	4.01	< 10	183	< 1	< 10	0.95	12	84	4.45	1.04	2.39	0.11	0.090	< 10	9	< 10
30424	< 0.2	0.6	96	486	3	6	10	93	3.83	< 10	208	< 1	< 10	0.76	14	77	4.48	1.15	2.17	0.11	0.097	< 10	8	< 10
30425	< 0.2	0.8	97	531	< 2	8	17	94	3.43	< 10	198	< 1	< 10	0.70	15	88	4.64	1.02	2.10	0.09	0.085	< 10	7	< 10
26091	21.8	4.1	> 10000	99	< 2	2140	314	195	2.63	< 10	14	< 1	20	0.89	115	60	11.3	0.26	1.13	0.13	0.018	< 10	2	< 10
26092	10.4	4.3	5540	94	< 2	3210	190	188	0.85	< 10	8	< 1	12	0.16	231	105	14.3	0.13	0.88	0.03	0.025	< 10	< 1	< 10
26093	9.7	4.1	5160	135	< 2	3930	278	203	2.08	< 10	16	< 1	21	0.86	253	91	17.2	0.11	0.83	0.17	0.029	< 10	2	< 10
26094	38.8	15.8	> 10000	195	< 2	5560	161	550	2.24	< 10	21	< 1	< 10	1.15	474	116	25.5	0.19	1.04	0.17	0.017	< 10	3	11
26095	18.1	10.1	> 10000	106	< 2	7820	126	354	1.89	< 10	10	< 1	< 10	0.80	356	89	34.0	0.28	0.85	0.12	0.018	< 10	2	11
26096	4.7	2.2	3540	359	3	1340	41	167	2.97	< 10	21	< 1	< 10	0.38	145	82	10.2	0.88	1.90	0.07	0.054	< 10	7	< 10
26097	1.9	2.0	1140	420	3	434	29	347	3.27	< 10	67	< 1	< 10	0.33	35	102	5.94	0.96	2.01	0.08	0.059	< 10	7	< 10
26098	33.5	18.0	> 10000	338	< 2	3780	467	739	2.27	< 10	13	< 1	44	0.40	182	83	18.4	0.73	1.98	0.05	0.028	< 10	5	23
26099	3.5	3.1	2130	518	< 2	232	46	279	3.50	< 10	67	1	10	0.48	46	65	6.12	1.05	2.65	0.06	0.055	< 10	7	< 10
26100	1.0	2.1	8960	237	< 2	> 10000	2	42	0.49	< 10	10	< 1	< 10	0.36	513	29	30.4	0.10	0.15	0.08	0.044	< 10	3	< 10
30426	< 0.2	1.2	55	594	3	53	21	109	4.27	< 10	283	< 1	< 10	1.19	15	75	5.01	1.16	2.21	0.13	0.081	< 10	9	< 10
30427	0.4	1.1	266	374	< 2	60	6	135	3.65	< 10	674	< 1	< 10	0.64	22	92	6.00	1.40	2.64	0.19	0.060	< 10	14	< 10
30428	< 0.2	0.8	90	370	< 2	46	3	158	3.85	< 10	649	< 1	< 10	1.58	17	88	5.29	1.03	2.44	0.28	0.067	< 10	11	< 10
30429	< 0.2	0.5	10	291	< 2	47	2	124	2.81	< 10	573	< 1	< 10	0.95	22	81	5.61	0.95	2.22	0.16	0.059	< 10	11	< 10
30430	< 0.2	< 0.5	3	12	< 2	< 1	< 2	1	0.03	< 10	8	< 1	< 10	0.04	< 1	< 2	0.05	< 0.01	0.02	0.01	0.004	< 10	< 1	< 10
26101	< 0.2	0.6	13	549	< 2	9	8	89	3.50	< 10	230	< 1	< 10	0.67	11	69	4.32	0.89	2.55	0.08	0.063	< 10	7	< 10
26102	< 0.2	0.8	31	732	< 2	9	13	145	3.62	< 10	270	< 1	< 10	0.95	13	51	5.02	0.80	2.97	0.07	0.081	< 10	8	< 10
26103	< 0.2	0.7	16	832	< 2	9	5	188	3.77	< 10	205	< 1	< 10	1.10	13	63	6.82	0.98	3.34	0.05	0.077	< 10	10	< 10
26104	< 0.2	0.5	3	588	3	7	3	104	2.75	< 10	101	< 1	< 10	1.48	6	65	3.17	0.37	2.24	0.06	0.035	< 10	5	< 10
26105	< 0.2	< 0.5	6	369	4	7	4	58	1.84	< 10	68	< 1	< 10	0.82	3	126	2.93	0.27	1.38	0.04	0.096	< 10	2	< 10
26106	< 0.2	0.8	30	953	2	9	3	130	2.31	< 10	53	< 1	< 10	1.85	16	79	5.87	1.18	1.28	0.08	0.082	< 10	10	< 10
26107	< 0.2	0.5	33	554	3	10	4	118	2.67	< 10	80	< 1	< 10	1.42	17	65	7.05	0.43	1.42	0.11	0.077	< 10	9	< 10
26108	1.6	2.0	1240	501	9	20	14	265	2.75	< 10	109	< 1	36	0.36	39	84	5.93	0.80	1.66	0.06	0.011	< 10	4	< 10
26109	< 0.2	0.6	115	447	2	10	6	70	2.24	< 10	91	< 1	< 10	0.17	10	115	3.71	0.53	1.24	0.05	0.005	< 10	2	< 10
26110	< 0.2	< 0.5	3	9	< 2	< 1	< 2	1	0.03	< 10	9	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10
26111	< 0.2	0.7	184	388	2	6	13	72	2.35	< 10	110	< 1	< 10	0.11	11	95	4.19	0.75	1.23	0.04	0.005	< 10	2	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30405	10	0.05	96	17	2	6	7.129
30407	26	0.04	112	< 10	3	4	7.416
30408	22	0.03	85	< 10	2	4	4.712
30409	20	0.05	89	< 10	2	4	3.428
30411	20	0.11	112	< 10	4	3	3.445
30412	25	0.11	101	< 10	4	3	2.888
30413	22	0.07	77	11	2	4	3.706
30414	10	0.18	96	< 10	11	8	2.280
30415	9	0.14	53	< 10	9	6	1.479
30416	18	0.22	72	< 10	9	6	0.062
30417	22	0.22	80	< 10	8	6	0.018
30418	12	0.14	50	< 10	7	5	0.016
30419	15	0.22	72	< 10	8	5	0.019
30420	67	0.02	35	< 10	< 1	2	0.490
30421	12	0.26	75	< 10	10	7	0.078
30422	18	0.20	74	< 10	6	7	0.011
30423	16	0.19	70	< 10	7	6	0.011
30424	18	0.20	71	< 10	5	6	0.051
30425	18	0.19	82	< 10	8	6	0.036
26091	11	0.05	66	< 10	1	4	4.785
26092	2	0.03	38	< 10	1	5	5.006
26093	17	0.02	41	< 10	1	5	4.826
26094	18	0.03	82	< 10	1	7	5.364
26095	13	0.04	87	< 10	2	9	6.244
26095	12	0.15	67	< 10	6	10	3.388
26097	12	0.17	96	< 10	6	9	1.109
26098	8	0.10	49	< 10	4	8	4.849
26099	12	0.17	48	< 10	7	7	0.928
26100	15	0.07	59	< 10	14	17	6.271
30425	19	0.21	72	< 10	6	6	0.052
30427	8	0.24	132	< 10	8	7	0.106
30428	17	0.19	137	< 10	7	7	0.092
30429	11	0.22	167	< 10	10	11	0.014
30430	1	< 0.01	< 1	< 10	< 1	4	0.016
26101	13	0.16	54	< 10	10	8	0.014
26102	13	0.20	72	< 10	10	6	0.048
26103	11	0.23	73	< 10	11	7	0.019
26104	13	0.13	29	< 10	16	13	0.013
26105	7	0.04	3	< 10	16	29	0.014
26105	22	0.14	80	< 10	19	7	0.077
26107	18	0.13	66	< 10	19	6	0.094
26108	8	0.07	21	< 10	10	8	0.591
26109	7	0.04	6	< 10	9	10	0.048
26110	1	< 0.01	< 1	< 10	< 1	4	0.016
26111	5	0.04	6	< 10	7	9	0.074

Activation Laboratories Ltd. Report: A08-3662

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	31.5	3.3	1220	815	16	34	853	854	0.34	378	284	<1	1570	0.80	8	7	25.7	0.02	0.14	0.06	0.042	80	1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-1 Meas	29.8	3.1	1140	743	13	30	520	604	0.27	315	200	<1	1410	0.76	8	7	22.3	0.02	0.12	0.05	0.029	73	<1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0620	0.0650	122	1.68	54.0
GXR-4 Meas	3.9	0.5	6060	140	340	38	46	70	2.37	101	27	1	33	0.92	15	55	3.59	1.39	1.68	0.11	0.121	<10	7	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.68	0.964	0.120	4.80	7.70	5.60
GXR-4 Meas	3.6	0.7	5990	134	317	37	39	64	2.41	95	55	1	21	0.84	14	49	3.27	1.22	1.55	0.10	0.112	<10	6	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.68	0.964	0.120	4.80	7.70	5.60
GXR-2 Meas	21.2	4.3	74	1010	<2	17	738	532	3.13	11	1430	1	<10	0.82	10	27	2.24	0.57	0.58	0.22	0.056	26	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	36.0	1.86	1.37	3.650	0.556	0.105	49.0	6.88	1.70
GXR-2 Meas	21.0	4.6	82	1020	<2	15	756	550	2.83	15	1040	1	<10	0.75	9	19	1.96	0.43	0.48	0.21	0.055	29	4	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	36.0	1.86	1.37	3.650	0.556	0.105	49.0	5.88	1.70
GXR-6 Meas	0.3	<0.5	66	870	<2	23	93	116	6.00	196	833	<1	<10	0.15	14	80	6.11	0.89	0.41	0.11	0.030	<10	22	<10
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	3.8	96.0	5.58	1.87	3.605	0.104	0.0360	3.80	27.8	1.70
GXR-6 Meas	0.3	0.5	66	953	<2	20	82	103	5.59	229	848	<1	<10	0.14	13	70	6.05	0.84	0.33	0.13	0.029	<10	17	<10
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	3.8	96.0	5.58	1.87	3.605	0.104	0.0360	3.80	27.6	1.70
OREAS 13P Meas							3010																	
OREAS 13P Cert							2500																	
OREAS 13P Meas							2780																	
OREAS 13P Cert							2500																	
30413 Orig	14.2	10.0	7020	283	<2	1480	337	759	3.38	<10	20	<1	<10	1.57	93	194	9.99	0.27	1.61	0.15	0.019	<10	3	<10
30413 Dup	13.9	10.0	7000	273	<2	1490	325	734	3.33	<10	19	<1	<10	1.50	90	189	10.0	0.26	1.57	0.14	0.018	<10	3	<10
26052 Orig	10.4	4.1	5460	94	<2	3210	192	198	0.84	<10	9	<1	10	0.16	231	111	14.3	0.13	0.88	0.03	0.025	<10	<1	<10
26052 Dup	10.4	4.4	5620	93	<2	3220	188	198	0.87	<10	7	<1	13	0.16	232	95	14.4	0.14	0.88	0.03	0.025	<10	<1	<10
30430 Orig	<0.2	<0.5	3	13	<2	<1	<2	2	0.04	<10	8	<1	<10	0.04	<1	2	0.06	0.01	0.02	0.01	0.004	<10	<1	<10
30430 Dup	<0.2	<0.6	3	11	<2	<1	<2	1	0.03	<10	7	<1	<10	0.03	<1	<2	0.04	<0.01	0.01	0.01	0.004	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	2	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	193	84	149	28	14	0.218	
GXR-1 Cert	275	80.0	164	32.0	38.0	0.257	
GXR-1 Meas	116	75	122	21	14	0.193	
GXR-1 Cert	275	80.0	164	32.0	38.0	0.257	
GXR-4 Meas	75	86	12	12	10	1.881	
GXR-4 Cert	221	87.0	30.8	14.0	186	1.77	
GXR-4 Meas	65	79	14	10	9	1.777	
GXR-4 Cert	221	87.0	30.8	14.0	186	1.77	
GXR-2 Meas	106	53	< 10	12	13	0.037	
GXR-2 Cert	180	52.0	1.90	17.0	269	0.0313	
GXR-2 Meas	83	43	< 10	10	12	0.034	
GXR-2 Cert	180	52.0	1.90	17.0	269	0.0313	
GXR-6 Meas	30	169	< 10	6	6	0.016	
GXR-6 Cert	36.0	186	1.90	14.0	110	0.0160	
GXR-6 Meas	29	155	< 10	5	15	0.015	
GXR-6 Cert	36.0	186	1.90	14.0	110	0.0160	
OREAS 13P Meas							
OREAS 13P Cert							
OREAS 13P Meas							
OREAS 13P Cert							
30413 Orig	22	0.07	76	11	2	4	3.867
30413 Dup	21	0.06	77	10	2	4	3.544
26062 Orig	2	0.03	38	< 10	1	6	4.619
26062 Dup	2	0.03	38	< 10	1	5	5.333
30430 Orig	1	< 0.01	< 1	< 10	< 1	4	0.016
30430 Dup	1	< 0.01	< 1	< 10	< 1	4	0.016
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 07-Jul-08
Invoice No.: A08-3792
Invoice Date: 15-Aug-08
Your Reference: DOSSIER #22701

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

40 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3792**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3792

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
23978	27.4	36.4	> 10000	459	< 2	4970	148	2230	1.74	33	16	< 1	< 10	0.47	372	45	26.4	0.11	1.19	0.02	0.025	< 10	4	24
23676	21.2	20.1	> 10000	517	< 2	6300	66	1650	1.85	< 10	11	< 1	< 10	0.43	353	66	31.7	0.05	1.29	0.02	0.017	< 10	5	14
23980	0.7	0.5	1580	285	< 2	1420	3	35	5.94	< 10	23	< 1	< 10	2.88	54	167	3.63	0.02	3.21	0.36	0.003	< 10	3	< 10
23681	36.2	15.8	> 10000	598	< 2	5890	66	1240	2.43	< 10	4	< 1	< 10	0.68	305	27	31.3	< 0.01	1.75	0.01	0.023	11	5	19
23682	11.1	2.6	6740	577	< 2	985	25	196	2.83	< 10	14	< 1	< 10	0.46	62	56	9.39	0.17	2.34	0.02	0.068	< 10	5	< 10
23683	0.2	< 0.5	141	562	3	40	9	49	2.45	< 10	41	< 1	< 10	0.50	12	75	4.76	0.18	2.48	0.03	0.073	< 10	6	< 10
23684	< 0.2	0.6	50	704	< 2	21	< 2	43	3.14	< 10	27	< 1	< 10	0.64	12	60	5.56	0.12	2.79	0.02	0.071	< 10	6	< 10
23685	< 0.2	< 0.5	176	634	4	20	< 2	37	2.78	< 10	35	< 1	< 10	0.58	12	68	4.73	0.16	2.93	0.02	0.079	< 10	7	< 10
23686	< 0.2	0.5	8	767	< 2	10	< 2	49	2.90	< 10	23	< 1	< 10	0.83	11	51	5.20	0.14	2.89	0.02	0.075	< 10	8	< 10
23687	< 0.2	0.6	56	735	< 2	12	< 2	49	3.45	< 10	94	< 1	< 10	0.64	13	66	5.43	0.33	3.00	0.06	0.081	< 10	9	< 10
25192	12.1	14.5	> 10000	90	< 2	6790	35	454	0.58	< 10	5	< 1	< 10	0.62	304	35	35.8	0.05	0.99	0.02	0.013	12	1	10
25193	11.3	10.6	8640	342	< 2	792	242	712	4.75	< 10	22	< 1	< 10	2.32	75	395	9.92	0.05	1.45	0.28	0.011	< 10	3	< 10
25194	18.9	5.8	> 10000	316	< 2	2280	154	297	3.57	< 10	5	< 1	< 10	1.55	113	167	17.3	< 0.01	0.81	0.23	0.009	< 10	1	< 10
25195	9.4	5.4	7120	71	< 2	7080	49	176	0.46	14	4	< 1	< 10	0.34	388	26	33.3	< 0.01	0.30	0.02	0.011	< 10	< 1	< 10
25196	14.4	8.4	> 10000	95	< 2	6480	56	273	0.65	< 10	4	< 1	< 10	0.27	517	22	34.6	< 0.01	0.34	0.02	0.012	12	< 1	< 10
25197	11.0	9.2	8690	127	< 2	5030	93	350	1.63	< 10	9	< 1	< 10	0.61	201	39	31.1	0.14	0.68	0.06	0.021	< 10	2	< 10
25198	4.9	5.1	4280	63	< 2	7130	61	207	0.58	< 10	7	< 1	< 10	0.25	318	22	37.6	0.05	0.30	0.03	0.008	< 10	< 1	< 10
25199	14.1	8.9	> 10000	138	< 2	4730	85	310	1.67	< 10	5	< 1	< 10	0.50	307	42	27.8	0.16	0.77	0.06	0.018	10	2	< 10
25200	1.0	2.1	8940	275	< 2	> 10000	2	44	0.49	< 10	6	< 1	< 10	0.37	571	33	32.6	0.11	0.17	0.08	0.048	< 10	4	< 10
25201	25.6	19.8	> 10000	214	< 2	3390	131	595	2.05	< 10	3	< 1	< 10	1.03	158	63	21.1	< 0.01	0.75	0.07	0.014	< 10	3	< 10
25202	17.5	14.4	8380	180	< 2	1980	240	521	4.48	< 10	13	< 1	< 10	2.06	133	216	12.6	0.02	0.74	0.26	0.012	< 10	3	< 10
25203	12.1	11.5	1040	189	< 2	315	878	253	7.58	< 10	11	< 1	24	4.93	26	198	3.25	0.02	1.05	0.35	0.012	< 10	3	< 10
25204	24.5	13.6	> 10000	354	< 2	834	394	530	5.76	< 10	9	< 1	< 10	2.98	62	326	8.90	< 0.01	1.48	0.26	0.011	< 10	4	< 10
25205	24.1	21.3	> 10000	526	< 2	1010	421	778	4.63	18	7	< 1	< 10	2.32	94	291	12.0	< 0.01	2.24	0.14	0.012	< 10	7	< 10
25206	19.0	25.2	8480	360	< 2	2250	444	797	3.52	11	9	< 1	< 10	1.65	135	188	15.5	< 0.01	1.27	0.11	0.011	< 10	3	< 10
25207	26.1	54.1	8630	336	< 2	1610	914	1480	2.91	< 10	5	< 1	14	1.24	249	111	14.9	0.03	1.12	0.18	0.016	< 10	3	< 10
25208	7.1	16.2	3760	374	< 2	1430	201	958	3.13	< 10	10	< 1	< 10	0.88	241	89	14.5	0.28	2.58	0.13	0.028	< 10	7	< 10
25209	0.7	1.8	278	408	< 2	373	8	347	3.03	< 10	23	< 1	< 10	0.78	24	60	9.39	0.36	2.01	0.12	0.071	< 10	5	< 10
25210	< 0.2	< 0.5	5	12	< 2	2	< 2	3	0.05	< 10	10	< 1	< 10	0.04	< 1	2	0.09	0.01	0.02	0.01	0.004	< 10	< 1	< 10
25211	1.3	1.2	709	240	< 2	90	< 2	46	1.38	< 10	14	< 1	< 10	0.61	18	36	15.0	0.25	1.07	0.03	0.058	< 10	2	< 10
25212	0.3	0.9	196	516	< 2	61	4	85	3.34	< 10	21	< 1	< 10	0.40	17	42	8.96	0.57	2.67	0.04	0.040	< 10	6	< 10
25213	< 0.2	0.5	41	436	2	9	< 2	82	3.27	< 10	125	< 1	< 10	0.23	11	89	4.95	0.73	2.38	0.05	0.068	< 10	7	< 10
25214	< 0.2	< 0.5	19	5614	< 2	8	4	95	3.84	< 10	184	< 1	< 10	0.28	14	64	5.28	1.01	2.51	0.06	0.082	< 10	9	< 10
25215	< 0.2	0.5	12	905	< 2	8	5	155	4.06	< 10	170	< 1	< 10	0.76	12	59	5.14	0.76	3.05	0.08	0.082	< 10	9	< 10
25216	< 0.2	0.6	100	935	< 2	9	14	157	3.66	< 10	330	< 1	< 10	1.09	13	66	5.40	0.80	2.32	0.08	0.083	< 10	10	< 10
25217	< 0.2	< 0.5	9	415	4	6	5	77	2.25	< 10	134	< 1	< 10	0.46	4	97	2.60	0.42	1.26	0.05	0.010	< 10	2	< 10
25218	< 0.2	< 0.5	4	418	< 2	6	8	53	2.27	< 10	85	< 1	< 10	0.77	2	114	2.06	0.35	1.22	0.05	0.005	< 10	2	< 10
25219	< 0.2	< 0.5	3	454	2	5	7	53	2.61	< 10	100	< 1	< 10	0.73	2	71	2.46	0.52	1.42	0.05	0.005	< 10	2	< 10
25220	0.8	< 0.5	1380	286	< 2	1400	11	27	5.66	< 10	23	< 1	< 10	2.69	51	169	3.66	0.02	3.23	0.34	0.003	< 10	3	< 10
25221	< 0.2	< 0.5	7	395	< 2	9	7	41	2.14	< 10	55	< 1	< 10	0.75	2	89	1.77	0.33	1.41	0.04	0.005	< 10	2	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
23676	17	0.07	79	< 10	3	6	4.131
23679	12	0.05	70	< 10	3	7	4.377
23980	74	0.02	34	< 10	< 1	1	0.520
23981	11	0.08	86	< 10	5	7	7.424
23982	6	0.18	59	< 10	16	8	3.081
23983	7	0.21	34	< 10	23	3	0.109
23984	5	0.24	52	< 10	22	6	0.108
23985	6	0.22	56	< 10	21	8	0.058
23986	8	0.22	53	< 10	20	5	0.034
23987	19	0.22	62	< 10	19	6	0.032
25192	3	0.03	108	< 10	1	8	5.710
25193	32	0.03	89	< 10	1	2	2.264
25194	30	0.02	93	< 10	< 1	4	6.067
25195	4	0.03	84	12	< 1	7	5.980
25196	5	0.03	79	126	< 1	7	7.100
25197	17	0.04	78	< 10	2	7	6.908
25198	5	0.02	58	< 10	< 1	6	5.243
25199	12	0.05	66	< 10	1	6	6.638
25200	15	0.09	81	< 10	16	17	8.722
25201	20	0.03	74	< 10	1	5	6.927
25202	56	0.03	95	< 10	1	3	4.281
25203	103	0.02	43	< 10	< 1	< 1	0.672
25204	67	0.02	69	< 10	1	2	2.227
25205	35	0.02	81	< 10	1	3	3.249
25206	31	0.02	82	< 10	< 1	3	4.970
25207	28	0.03	116	< 10	1	3	6.297
25208	15	0.08	117	< 10	8	5	5.580
25209	21	0.06	100	< 10	7	5	2.052
25210	2	< 0.01	< 1	< 10	< 1	4	0.026
25211	5	0.05	25	< 10	4	6	3.277
25212	11	0.10	27	< 10	9	9	2.092
25213	7	0.13	55	< 10	5	6	0.084
25214	9	0.16	73	< 10	5	5	0.018
25215	13	0.17	72	< 10	6	5	0.015
25216	14	0.21	71	< 10	10	5	0.056
25217	10	0.08	6	< 10	13	23	0.011
25218	12	0.07	1	< 10	13	31	0.010
25219	13	0.07	< 1	< 10	14	21	0.008
25220	73	0.02	34	< 10	< 1	1	0.496
25221	11	0.05	< 1	< 10	14	29	0.010

Activation Laboratories Ltd. Report: A08-3792

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	28.8	3.4	1090	855	14	33	884	837	0.31	369	253	<1	1340	0.82	7	7	23.5	0.02	0.13	0.06	0.034	75	1	20
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.8	0.7	6410	133	330	36	46	57	2.85	97	32	1	19	0.87	14	52	3.40	1.33	1.64	0.11	0.118	<10	7	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.064	0.120	4.80	7.70	5.60
GXR-2 Meas	23.0	5.0	88	1100	<2	19	808	587	3.38	14	1050	1	<10	0.78	10	27	2.36	0.96	0.55	0.20	0.062	33	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.8	67	974	<2	23	92	114	6.67	236	855	<1	<10	0.16	13	81	5.21	0.83	0.40	0.10	0.031	<10	21	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas							2790																	
OREAS 13P Cert							2180																	
							2500																	
23583 Ong	0.2	0.6	140	553	2	39	9	49	2.35	<10	40	1	<10	0.49	12	74	4.66	0.17	2.43	0.03	0.072	<10	6	<10
23683 Dup	0.2	<0.5	141	570	3	41	8	48	2.60	<10	41	1	<10	0.50	12	76	4.85	0.18	2.53	0.03	0.074	<10	6	<10
26201 Ong	25.6	19.6	>10000	215	<2	3440	131	584	2.04	<10	3	<1	<10	1.02	169	83	21.2	<0.01	0.75	0.07	0.014	<10	3	<10
26201 Dup	25.7	19.9	>10000	213	<2	3330	131	587	2.05	<10	3	<1	<10	1.05	157	83	21.0	<0.01	0.80	0.07	0.014	<10	3	<10
26214 Ong	<0.2	<0.5	19	557	<2	6	4	95	3.75	<10	182	<1	<10	0.28	14	63	5.25	1.00	2.45	0.06	0.081	<10	9	<10
26214 Dup	<0.2	0.6	20	564	<2	7	4	95	3.88	<10	187	<1	<10	0.29	14	64	5.32	1.01	2.53	0.06	0.083	<10	9	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	154		74	172	22	13	0.201
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	71		84	13	11	9	1.969
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	85		53	< 10	12	12	0.039
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	30		172	< 10	6	12	0.018
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
23683 Orig	7	0.21	33	< 10	23	3	0.110
23683 Dup	7	0.21	34	< 10	23	2	0.109
26201 Orig	19	0.04	76	< 10	1	5	7.216
26201 Dup	20	0.03	74	< 10	1	5	6.838
26214 Orig	9	0.18	73	< 10	5	5	0.018
26214 Dup	9	0.18	74	< 10	5	5	0.018
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 09-Jul-08
Invoice No.: A08-3906
Invoice Date: 04-Aug-08
Your Reference: DOSSIER 22757

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

60 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3906**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3906

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
26112	< 0.2	< 0.5	5	88	< 2	72	21	13	7.02	< 10	25	< 1	< 10	5.51	11	125	1.04	0.04	0.95	0.53	0.008	< 10	2	< 10	
26113	< 0.2	< 0.5	181	268	< 2	167	2	25	4.01	< 10	19	< 1	< 10	3.08	34	206	2.53	0.05	2.34	0.20	0.006	< 10	3	< 10	
26114	< 0.2	< 0.5	109	319	< 2	180	< 2	28	3.65	< 10	14	< 1	< 10	2.99	40	185	2.84	0.04	2.63	0.14	0.007	< 10	3	< 10	
26115	< 0.2	< 0.5	8	204	< 2	106	3	30	4.60	< 10	30	< 1	< 10	2.75	28	458	3.01	0.09	2.75	0.38	0.003	< 10	3	< 10	
26116	< 0.2	< 0.5	142	130	< 2	24	4	14	1.33	< 10	42	< 1	< 10	1.20	20	67	2.55	0.05	0.69	0.19	0.099	< 10	7	< 10	
26117	< 0.2	< 0.5	155	258	< 2	17	2	26	1.71	< 10	68	< 1	< 10	1.57	20	17	4.19	0.17	1.25	0.18	0.114	< 10	11	< 10	
26118	0.3	0.5	390	385	< 2	15	< 2	26	2.03	< 10	15	< 1	< 10	2.02	30	41	5.29	0.04	1.48	0.22	0.126	< 10	14	< 10	
26119	0.7	1.1	731	344	< 2	16	8	56	1.84	< 10	14	< 1	< 10	1.65	33	34	5.46	0.03	1.28	0.21	0.112	< 10	12	< 10	
26120 no sample																									
26121	< 0.2	< 0.5	76	378	< 2	96	4	41	3.48	< 10	17	< 1	< 10	1.88	19	337	3.90	0.05	2.67	0.30	0.022	< 10	4	< 10	
26122	< 0.2	< 0.5	20	133	< 2	99	3	18	4.72	< 10	30	< 1	< 10	3.14	18	333	1.82	0.11	2.07	0.53	0.003	< 10	3	< 10	
26123	< 0.2	< 0.5	6	140	< 2	60	4	18	4.64	< 10	24	< 1	< 10	3.22	12	262	1.57	0.08	1.68	0.62	0.004	< 10	3	< 10	
26124	< 0.2	< 0.5	144	106	< 2	67	3	14	4.62	< 10	72	< 1	< 10	3.35	12	236	1.45	0.23	1.43	0.74	0.005	< 10	3	< 10	
26125	< 0.2	< 0.5	113	168	< 2	122	3	21	5.04	< 10	112	< 1	< 10	3.28	19	477	2.39	0.34	2.40	0.54	0.003	< 10	4	< 10	
26126	< 0.2	< 0.5	107	165	< 2	113	3	20	4.92	< 10	125	< 1	< 10	3.37	18	427	2.16	0.44	2.07	0.55	0.009	< 10	4	< 10	
26127	0.3	< 0.5	304	197	< 2	73	2	15	3.81	< 10	43	< 1	< 10	3.14	17	299	1.62	0.11	1.40	0.39	0.011	< 10	3	< 10	
26128	< 0.2	< 0.5	107	135	< 2	85	4	18	5.14	< 10	112	< 1	< 10	3.50	18	367	1.75	0.32	1.64	0.69	0.011	< 10	4	< 10	
26129	< 0.2	< 0.5	91	120	< 2	76	4	19	5.43	< 10	63	< 1	< 10	3.73	14	283	1.60	0.23	1.67	0.73	0.010	< 10	3	< 10	
26130	< 0.2	< 0.5	3	10	< 2	< 1	< 2	2	0.04	< 10	9	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.024	< 10	< 1	< 10		
26131	0.2	< 0.5	892	112	< 2	85	4	19	5.33	< 10	63	< 1	< 10	3.64	19	218	1.67	0.24	1.62	0.66	0.008	< 10	3	< 10	
26132	< 0.2	< 0.5	7	119	< 2	98	7	20	5.75	< 10	67	< 1	< 10	3.81	17	315	1.68	0.27	1.90	0.64	0.005	< 10	3	< 10	
26133	< 0.2	< 0.5	4	110	< 2	87	4	19	6.14	< 10	104	< 1	< 10	4.09	15	337	1.67	0.35	1.88	0.61	0.004	< 10	3	< 10	
26134	< 0.2	< 0.5	82	250	< 2	40	2	18	3.76	< 10	32	< 1	< 10	3.35	13	95	1.82	0.02	1.15	0.50	0.014	< 10	9	< 10	
26135	< 0.2	< 0.5	136	152	< 2	32	3	9	3.61	< 10	13	< 1	< 10	3.03	9	104	1.19	0.02	0.95	0.97	0.014	< 10	6	< 10	
26136	< 0.2	< 0.5	5	89	< 2	34	4	9	4.62	< 10	12	< 1	< 10	3.51	7	110	0.88	0.02	0.81	0.56	0.002	< 10	2	< 10	
26137	< 0.2	< 0.5	162	242	>	46	3	24	2.26	< 10	102	< 1	< 10	0.58	18	161	2.96	0.30	2.24	0.10	0.022	< 10	7	< 10	
26138	< 0.2	< 0.5	81	83	< 2	53	3	9	6.55	< 10	43	< 1	< 10	4.97	8	199	0.98	0.11	0.87	0.61	0.009	< 10	3	< 10	
26139	< 0.2	< 0.5	66	269	>	22	< 2	23	2.67	< 10	282	< 1	< 10	0.19	13	65	3.50	0.53	2.28	0.06	0.024	< 10	6	< 10	
26140	0.6	< 0.5	1490	311	< 2	1640	2	27	5.33	< 10	22	< 1	< 10	2.97	51	146	3.44	0.04	3.35	0.36	0.003	< 10	3	< 10	
26141	< 0.2	< 0.5	204	218	>	3	20	3	27	2.71	< 10	307	< 1	< 10	0.14	12	102	3.17	0.57	1.89	0.07	0.026	< 10	6	< 10
26142	0.7	< 0.5	324	96	< 2	70	4	23	4.75	< 10	104	< 1	< 10	2.96	14	323	1.90	0.43	1.70	0.46	0.007	< 10	6	< 10	
26143	0.3	< 0.5	486	243	>	2	51	3	52	2.75	< 10	54	< 1	< 10	0.99	14	148	3.40	0.17	1.78	0.20	0.007	< 10	3	< 10
26144	0.6	0.5	687	110	< 2	22	< 2	72	1.65	< 10	48	< 1	< 10	0.23	11	94	2.01	0.14	0.93	0.09	0.023	< 10	1	< 10	
26145	0.8	0.6	533	198	< 2	70	4	48	4.74	< 10	31	< 1	< 10	3.16	21	224	2.59	0.10	1.49	0.51	0.013	< 10	4	< 10	
26146	2.3	1.3	1610	85	< 2	69	3	48	3.23	< 10	41	< 1	< 10	2.12	15	195	1.63	0.19	0.92	0.37	0.012	< 10	2	< 10	
26147	0.2	< 0.5	210	103	< 2	76	4	16	5.05	< 10	17	< 1	< 10	4.22	10	117	1.04	0.05	0.80	0.49	0.015	< 10	3	< 10	
26148	0.4	< 0.5	382	77	< 2	195	5	13	6.67	< 10	22	< 1	< 10	6.31	17	165	1.01	0.06	0.60	0.68	0.006	< 10	3	< 10	
26149	< 0.2	< 0.5	207	176	< 2	47	5	13	4.30	< 10	21	< 1	< 10	3.78	12	161	1.42	0.02	0.91	0.54	0.015	< 10	7	< 10	
26150	1.1	1.6	8160	296	< 2	> 10000	4	42	0.67	< 10	8	< 1	< 10	0.44	660	32	33.4	0.12	0.18	0.10	0.044	< 10	4	< 10	
26151	< 0.2	< 0.5	141	421	< 2	87	3	25	3.13	< 10	18	< 1	< 10	2.54	18	140	2.90	0.04	1.83	0.22	0.016	< 10	8	< 10	
26152	0.2	< 0.5	156	185	< 2	63	6	13	5.08	< 10	14	< 1	< 10	4.18	12	156	1.39	0.03	0.95	0.70	0.009	< 10	6	< 10	
26153	< 0.2	< 0.5	102	79	< 2	33	7	9	6.06	< 10	16	< 1	< 10	4.82	6	165	0.83	0.07	0.67	0.77	0.007	< 10	3	< 10	
26154	< 0.2	< 0.5	139	77	< 2	28	7	8	6.66	< 10	11	< 1	< 10	5.22	5	126	0.63	0.23	0.47	0.79	0.016	< 10	3	< 10	
26155	< 0.2	< 0.5	96	59	< 2	36	7	12	7.04	< 10	33	< 1	< 10	5.65	6	185	0.74	0.11	0.53	0.65	0.011	< 10	3	< 10	
26156	< 0.2	< 0.5	177	198	< 2	80	4	31	5.95	< 10	182	< 1	< 10	3.65	13	219	2.41	0.41	1.85	0.43	0.008	< 10	5	< 10	
26157	0.3	< 0.5	235	331	< 2	52	< 2	45	2.79	< 10	298	< 1	< 10	0.49	15	83	3.80	0.33	2.77	0.08	0.014	< 10	6	< 10	
26158	< 0.2	< 0.5	107	196	< 2	66	9	21	6.62	< 10	23	< 1	< 10	6.06	11	191	1.73	0.03	1.18	0.62	0.014	< 10	3	< 10	
26159	< 0.2	< 0.5	110	267	< 2	85	10	38	6.83	< 10	19	< 1	< 10	6.34	16	141	1.95	0.03	1.19	0.57	0.017	< 10	4	< 10	
26160	< 0.2	< 0.5	3	10	< 2	< 1	< 2	2	0.04	< 10	8	< 1	< 10	0.04	< 1	3	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10	
26161	< 0.2	< 0.5	156	211	< 2	68	8	21	5.99	< 10	15	< 1	< 10	4.96	12	137	1.55	0.02	1.08	0.65	0.009	< 10	4	< 10	
26162	< 0.2	< 0.5	16	157	< 2	75	12	22	6.65	< 10	25	< 1	< 10	5.25	11	154	1.53	0.08	1.32	0.55	0.010	< 10	4	< 10	
26163	< 0.2	< 0.5	31	144	< 2	59	11	16	5.66	< 10	12	< 1	< 10	4.66	11	122	1.37	0.02	1.13	0.63	0.010	< 10	4	< 10	

Activation Laboratories Ltd. Report: A08-3906

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26164	< 0.2	< 0.5	152	195	< 2	67	9	14	5.06	< 10	11	< 1	< 10	4.47	14	105	1.53	0.01	1.00	0.53	0.012	< 10	7	< 10
26165	1.7	1.0	964	189	< 2	289	49	29	5.67	< 10	12	< 1	< 10	4.74	28	162	2.23	0.01	1.10	0.67	0.008	< 10	5	< 10
26166	2.3	1.3	1190	282	< 2	487	103	69	4.61	< 10	13	< 1	< 10	3.89	50	163	3.01	0.02	1.84	0.36	0.007	< 10	4	< 10
26167	1.9	1.0	977	209	< 2	319	53	35	5.37	< 10	12	< 1	< 10	4.60	28	143	2.41	0.02	1.30	0.44	0.010	< 10	6	< 10
26168	4.7	2.2	2570	347	< 2	764	39	139	3.40	< 10	17	< 1	< 10	2.95	57	220	4.68	0.03	1.56	0.27	0.009	< 10	6	< 10
26169	3.8	1.9	2080	329	< 2	763	35	95	3.02	< 10	16	< 1	< 10	2.63	49	188	4.24	0.02	1.45	0.27	0.008	< 10	5	< 10
26170	0.7	< 0.5	1500	328	< 2	1600	2	30	5.46	< 10	25	< 1	< 10	3.12	52	152	3.69	0.04	3.53	0.37	0.003	< 10	3	< 10
26171	4.5	2.5	2980	310	< 2	797	59	111	3.82	< 10	15	< 1	< 10	3.15	56	190	4.87	0.02	1.48	0.62	0.011	< 10	6	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26112	239	0.03	15	< 10	1	< 1	0.053
26113	65	0.04	31	< 10	2	1	0.067
26114	41	0.04	23	< 10	2	1	0.085
26115	83	0.08	35	< 10	2	1	0.032
26116	18	0.14	45	< 10	16	4	0.440
26117	7	0.19	70	< 10	22	5	0.266
26118	9	0.16	72	< 10	27	6	1.244
26119	10	0.19	69	< 10	21	6	1.438
26120 no sample							
26121	27	0.09	41	< 10	4	1	0.176
26122	59	0.05	27	< 10	< 1	< 1	0.037
26123	55	0.04	23	< 10	< 1	< 1	0.027
26124	60	0.05	27	< 10	< 1	< 1	0.045
26125	51	0.08	48	< 10	< 1	< 1	0.048
26126	45	0.08	43	< 10	< 1	< 1	0.060
26127	41	0.05	28	< 10	3	1	0.106
26128	79	0.07	36	< 10	2	< 1	0.047
26129	70	0.07	31	< 10	1	< 1	0.041
26130	2	< 0.01	< 1	< 10	< 1	4	0.016
26131	75	0.05	27	< 10	< 1	< 1	0.153
26132	60	0.06	29	< 10	< 1	< 1	0.036
26133	77	0.08	36	< 10	< 1	< 1	0.032
26134	46	0.05	49	< 10	3	1	0.100
26135	55	0.04	32	< 10	2	< 1	0.053
26135	62	0.01	14	< 10	< 1	< 1	0.028
26137	10	0.13	27	< 10	12	4	0.109
26138	71	0.03	28	< 10	< 1	< 1	0.047
26138	5	0.13	14	< 10	15	3	0.072
26140	73	0.02	35	< 10	< 1	1	0.480
26141	7	0.12	20	< 10	6	4	0.120
26142	50	0.08	41	< 10	2	< 1	0.096
26143	19	0.08	23	< 10	10	5	0.900
26144	6	0.07	15	< 10	5	6	0.417
26145	52	0.05	41	< 10	5	3	0.378
26145	38	0.06	38	< 10	3	2	0.387
26147	85	0.03	17	< 10	1	< 1	0.037
26148	112	0.03	17	< 10	< 1	< 1	0.221
26148	55	0.05	42	< 10	2	1	0.127
26160	18	0.10	62	< 10	17	19	8.886
26151	29	0.08	61	< 10	3	2	0.118
26152	75	0.04	35	< 10	2	< 1	0.094
26153	91	0.03	23	< 10	1	< 1	0.055
26154	100	0.03	18	< 10	2	< 1	0.062
26155	98	0.04	26	< 10	2	< 1	0.060
26155	85	0.07	45	< 10	3	2	0.077
26157	12	0.11	30	< 10	8	2	0.095
26168	95	0.03	28	< 10	2	< 1	0.120
26159	108	0.05	35	< 10	2	< 1	0.186
26160	2	< 0.01	< 1	< 10	1	4	0.017
26161	89	0.03	25	< 10	1	< 1	0.101
26162	109	0.05	34	< 10	1	< 1	0.062
26163	93	0.04	27	< 10	1	< 1	0.044

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26164	83	0.05	36	< 10	2	< 1	0.119
26165	92	0.04	35	< 10	1	< 1	0.566
26166	58	0.04	29	< 10	1	1	0.549
26167	79	0.04	37	< 10	1	< 1	0.523
26168	47	0.04	40	< 10	1	2	1.492
26169	41	0.05	37	< 10	1	2	1.329
26170	77	0.02	36	< 10	< 1	1	0.493
26171	62	0.04	41	< 10	2	2	1.657

Activation Laboratories Ltd. Report: A08-3906

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	31.3	3.1	1130	746	16	37	953	533	0.34	361	338	<1	1590	0.83	8	6	25.1	0.02	0.15	0.07	0.040	80	1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.8	0.5	6470	136	345	41	43	57	2.55	100	19	1	19	1.00	15	56	3.57	1.48	1.76	0.13	0.121	<10	7	<10
GXR-4 Cert	4.00	0.600	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.7	4.2	76	964	<2	16	705	529	3.19	13	1380	1	<10	0.84	10	25	2.09	0.55	0.54	0.25	0.054	29	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	<0.5	65	1010	<2	24	98	123	6.68	211	916	<1	<10	0.17	15	82	5.44	0.98	0.44	0.13	0.032	<10	24	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2610				2170										6.13							
OREAS 13P Cert			2500				2280										7.58							
26134 Ong	<0.2	<0.5	92	257	<2	42	2	18	3.62	<10	32	<1	<10	3.41	13	100	1.86	0.02	1.17	0.51	0.014	<10	9	<10
26134 Dup	<0.2	<0.5	91	244	<2	38	3	17	3.70	<10	33	<1	<10	3.29	13	91	1.78	0.02	1.12	0.49	0.014	<10	8	<10
26147 Ong	0.3	<0.5	214	111	<2	79	4	17	5.10	<10	17	<1	<10	4.27	10	120	1.06	0.05	0.81	0.50	0.016	<10	3	<10
26147 Dup	0.2	<0.5	207	96	<2	77	3	16	5.01	<10	18	<1	<10	4.18	10	114	1.03	0.05	0.79	0.48	0.014	<10	3	<10
26161 Ong	<0.2	<0.5	156	207	<2	66	9	21	5.38	<10	15	<1	<10	4.31	12	135	1.55	0.02	1.07	0.64	0.009	<10	4	<10
26161 Dup	<0.2	<0.5	155	215	<2	69	8	22	5.43	<10	15	<1	<10	4.41	12	140	1.56	0.02	1.10	0.66	0.010	<10	4	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	4	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	194		80	143	25	16	0.223
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	81		89	11	12	9	1.922
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	98		50	< 10	11	12	0.037
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	32		178	< 10	7	7	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
26134 Orig	46	0.05	50	< 10	3	1	0.100
26134 Dup	45	0.05	48	< 10	3	1	0.099
26147 Orig	85	0.03	16	< 10	1	< 1	0.087
26147 Dup	84	0.03	17	< 10	1	< 1	0.087
26161 Orig	89	0.03	25	< 10	1	< 1	0.099
26161 Dup	90	0.03	26	< 10	1	< 1	0.103
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	0.002
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001



Date Submitted: 09-Jul-08
Invoice No.: A08-3907
Invoice Date: 24-Jul-08
Your Reference: DOSSIER 22758

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

60 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3907**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3907

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm 0.2	ppm 0.5	ppm 1	ppm 2	ppm 2	ppm 1	ppm 2	ppm 1	% 0.01	ppm 10	ppm 1	ppm 1	ppm 10	% 0.01	ppm 1	ppm 2	% 0.01	% 0.01	% 0.01	% 0.01	% 0.001	ppm 10	ppm 1	ppm 10
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26172	10.6	4.8	5610	300	< 2	2290	50	171	2.90	< 10	13	< 1	< 10	2.12	138	179	8.40	0.02	1.43	0.22	0.009	< 10	5	< 10
26173	4.1	2.6	2040	254	< 2	732	60	112	3.78	< 10	13	< 1	< 10	2.90	49	144	4.01	0.02	1.22	0.46	0.007	< 10	5	< 10
26174	2.5	1.0	1390	278	< 2	605	69	102	3.53	< 10	13	< 1	< 10	2.88	48	187	3.72	0.02	1.25	0.52	0.009	< 10	6	< 10
26175	9.1	7.8	5740	255	< 2	1520	72	273	2.65	< 10	14	< 1	< 10	1.94	115	185	5.98	0.03	1.16	0.36	0.009	< 10	6	< 10
26176	7.3	3.7	4650	284	< 2	1970	74	184	2.88	< 10	15	< 1	< 10	1.93	136	172	8.84	0.04	1.37	0.35	0.008	< 10	5	< 10
26177	9.3	5.6	5970	258	< 2	1290	118	284	3.97	< 10	34	< 1	< 10	2.49	283	164	8.20	0.13	1.59	0.43	0.010	< 10	5	< 10
26178	9.3	5.6	5660	264	< 2	2380	121	249	2.66	< 10	17	< 1	< 10	2.01	133	168	9.77	0.05	1.24	0.33	0.007	< 10	5	< 10
26179	9.6	6.0	5280	293	< 2	2610	136	277	3.45	< 10	29	< 1	< 10	2.16	116	162	10.9	0.11	1.65	0.36	0.007	< 10	5	< 10
26180	< 0.2	< 0.5	6	10	< 2	1	< 2	1	0.07	< 10	10	< 1	< 10	0.05	< 1	3	0.06	0.01	0.02	0.02	0.004	< 10	< 1	< 10
26181	8.7	6.1	4460	393	< 2	1640	208	300	3.60	< 10	16	< 1	< 10	2.12	117	160	7.96	0.05	2.02	0.31	0.008	< 10	5	< 10
26182	3.3	3.9	1640	346	< 2	470	188	184	4.48	< 10	23	< 1	< 10	3.18	44	170	4.39	0.08	1.82	0.60	0.011	< 10	7	< 10
26183	5.9	4.1	3330	306	< 2	2630	156	178	3.01	< 10	27	< 1	< 10	2.02	135	158	11.1	0.07	1.34	0.29	0.008	< 10	6	< 10
26184	8.2	6.4	5580	335	< 2	3060	134	248	2.84	< 10	23	< 1	< 10	1.73	242	169	13.3	0.04	1.43	0.22	0.008	< 10	4	< 10
26185	5.4	7.0	2480	331	< 2	613	158	245	2.09	< 10	11	< 1	< 10	1.88	46	127	4.31	0.03	1.73	0.09	0.012	< 10	4	< 10
26186	8.0	8.1	3090	153	< 2	661	227	232	2.45	< 10	12	< 1	< 10	2.94	44	157	1.91	0.02	0.51	0.05	0.013	< 10	2	< 10
26187	9.7	2.8	4960	182	< 2	1310	187	65	2.14	< 10	11	< 1	12	2.25	56	123	3.38	0.02	0.72	0.06	0.013	< 10	3	< 10
26188	3.7	5.7	1970	220	< 2	396	113	163	2.20	< 10	10	< 1	< 10	2.60	38	128	2.20	0.02	0.82	0.03	0.009	< 10	2	< 10
26189	4.6	6.6	2100	266	< 2	624	126	171	2.65	< 10	13	< 1	< 10	2.62	48	184	2.70	0.03	1.13	0.06	0.010	< 10	3	< 10
26190	0.7	0.5	1720	324	< 2	1550	4	29	6.13	< 10	23	< 1	< 10	3.05	54	148	3.66	0.04	3.42	0.38	0.003	< 10	3	< 10
26191	2.8	1.8	1240	303	< 2	428	97	56	3.44	< 10	13	< 1	< 10	3.00	35	137	2.49	0.03	1.32	0.12	0.007	< 10	3	< 10
26192	6.2	1.8	2540	370	< 2	296	112	60	4.47	< 10	10	< 1	< 10	3.94	32	131	3.08	0.02	1.63	0.24	0.014	< 10	4	< 10
26193	5.2	1.9	2130	378	< 2	304	98	71	4.03	< 10	10	< 1	< 10	3.41	22	107	2.94	0.02	1.49	0.33	0.009	< 10	4	< 10
26194	6.2	4.1	2790	390	< 2	1210	104	99	3.99	< 10	9	< 1	< 10	3.08	51	111	5.24	0.02	1.56	0.22	0.016	< 10	4	< 10
26195	6.1	4.2	3080	345	< 2	922	107	94	4.29	< 10	10	< 1	< 10	3.33	48	139	4.18	0.01	1.40	0.26	0.014	< 10	4	< 10
26196	6.8	4.6	3530	366	< 2	1130	74	100	3.17	< 10	7	< 1	< 10	2.44	52	264	4.42	0.01	1.49	0.15	0.028	< 10	4	< 10
26197	6.5	4.2	3120	338	< 2	962	147	110	5.60	< 10	14	< 1	< 10	3.81	72	261	5.33	0.04	2.00	0.32	0.016	< 10	3	< 10
26198	10.0	6.4	5090	339	< 2	1240	172	128	5.85	< 10	13	< 1	< 10	3.85	90	219	8.48	0.04	1.80	0.34	0.012	< 10	3	< 10
26199	16.4	10.2	8560	375	< 2	943	171	197	4.34	< 10	13	< 1	< 10	2.77	103	145	6.52	0.04	2.02	0.24	0.014	< 10	3	< 10
26200	1.0	2.7	9360	305	< 2	> 10000	4	43	0.64	< 10	9	< 1	< 10	0.39	620	31	33.4	0.11	0.17	0.09	0.048	< 10	4	< 10
26201	1.7	1.3	1030	167	< 2	141	22	36	5.61	< 10	127	< 1	< 10	3.73	22	165	2.19	0.20	1.81	0.45	0.012	< 10	4	< 10
26202	12.6	8.7	7720	374	< 2	1130	146	174	4.26	< 10	12	< 1	12	2.43	105	267	7.13	0.03	2.12	0.30	0.010	< 10	6	< 10
26203	4.5	3.8	3720	221	< 2	922	94	65	5.05	< 10	12	< 1	< 10	3.24	73	131	5.36	0.02	1.32	0.47	0.007	< 10	5	< 10
26204	4.1	4.1	2740	218	< 2	1480	91	52	4.34	< 10	11	< 1	< 10	3.08	122	143	7.83	0.02	1.31	0.40	0.008	< 10	6	< 10
26205	7.6	7.7	4840	212	< 2	873	122	84	5.22	< 10	11	< 1	< 10	3.61	60	119	5.13	0.02	1.23	0.47	0.008	< 10	5	< 10
26206	4.9	5.7	2620	182	< 2	733	154	55	4.87	< 10	18	< 1	< 10	3.63	55	111	3.96	0.02	1.08	0.57	0.009	< 10	5	< 10
26207	5.2	6.6	4090	233	< 2	1430	156	78	3.97	< 10	13	< 1	< 10	2.70	163	110	7.35	0.03	1.34	0.36	0.006	< 10	5	< 10
26208	2.8	2.8	2360	702	< 2	782	65	175	3.28	< 10	10	< 1	< 10	1.16	51	271	7.75	0.03	3.42	0.07	0.005	< 10	3	< 10
26209	7.8	6.5	6240	772	< 2	483	184	521	4.00	< 10	23	< 1	10	1.67	50	247	8.11	0.08	2.72	0.15	0.006	< 10	4	< 10
26210	< 0.2	< 0.6	6	10	< 2	< 1	< 2	2	0.03	< 10	9	< 1	< 10	0.04	< 1	< 2	0.06	0.01	0.02	0.01	0.004	< 10	< 1	< 10
26211	10.5	5.8	7070	390	< 2	788	105	477	3.89	< 10	11	< 1	< 10	1.78	128	409	14.6	0.04	3.68	0.03	0.016	< 10	10	< 10
26212	14.1	10.6	7670	750	< 2	929	297	789	3.45	< 10	17	< 1	< 10	1.57	52	308	8.89	0.07	2.80	0.10	0.011	< 10	4	< 10
26213	11.0	10.0	6360	804	< 2	1410	166	729	3.39	< 10	10	< 1	16	1.10	443	116	16.2	0.04	3.10	0.02	0.016	< 10	10	12
26214	3.7	7.3	2190	898	< 2	270	84	720	4.04	< 10	26	< 1	< 10	0.30	245	61	10.7	0.15	4.07	0.03	0.026	< 10	11	19
26215	3.5	3.3	1440	617	< 2	144	85	301	3.27	< 10	49	< 1	18	0.55	46	62	6.51	0.16	2.84	0.05	0.028	< 10	6	12
26216	11.0	2.4	6340	796	< 2	321	164	167	3.69	< 10	11	< 1	30	0.83	46	168	8.57	0.03	3.95	0.04	0.035	< 10	16	88
26217	15.1	4.4	4920	585	< 2	200	303	213	3.17	< 10	34	< 1	47	1.16	22	76	5.94	0.11	2.65	0.10	0.058	< 10	9	44
26218	0.9	1.8	983	561	< 2	59	13	62	2.65	< 10	14	< 1	< 10	1.99	28	83	6.12	0.05	1.62	0.11	0.047	< 10	11	< 10
26219	1.8	8.7	1220	451	< 2	112	143	937	2.85	< 10	16	< 1	< 10	1.98	37	90	5.14	0.05	1.83	0.19	0.079	< 10	10	< 10
26220	0.6	0.6	1640	315	< 2	1550	< 2	28	6.25	< 10	23	< 1	< 10	3.03	52	143	3.56	0.04	3.35	0.35	0.003	< 10	3	< 10
26221	0.3	1.3	188	612	< 2	34	18	92	2.96	< 10	34	< 1	< 10	2.06	24	84	6.07	0.19	1.96	0.13	0.047	< 10	12	< 10
26222	< 0.2	1.0	42	718	< 2	10	5	112	3.61	< 10	70	< 1	< 10	0.45	14	68	6.13	0.24	3.15	0.04	0.066	< 10	8	< 10
26223	< 0.2	1.2	36	1040	< 2	10	27	125	4.73	< 10	46	< 1	< 10	1.06	19	36	6.88	0.26	4.06	0.06	0.054	< 10	12	< 10

Activation Laboratories Ltd. Report: A08-3907

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26224	0.6	1.0	146	897	< 2	76	29	106	3.51	< 10	41	< 1	< 10	1.85	29	153	5.66	0.19	3.15	0.04	0.037	< 10	13	< 10
26225	< 0.2	0.8	34	949	< 2	46	13	108	2.88	< 10	35	< 1	< 10	1.81	20	108	4.26	0.12	2.45	0.04	0.021	< 10	8	< 10
26226	0.8	3.4	245	729	< 2	67	70	518	3.63	< 10	9	< 1	< 10	3.15	29	165	5.01	0.02	2.48	0.04	0.022	< 10	11	< 10
26227	0.4	1.1	468	894	3	24	15	150	2.68	< 10	25	< 1	< 10	0.57	22	81	5.19	0.09	2.12	0.03	0.020	< 10	5	< 10
26228	< 0.2	0.9	93	684	3	17	4	96	2.63	< 10	28	< 1	< 10	0.29	11	84	4.89	0.15	1.84	0.02	0.015	< 10	4	< 10
26229	0.4	0.6	804	497	4	28	3	56	1.72	< 10	29	< 1	< 10	0.15	17	75	3.40	0.12	1.30	0.03	0.013	< 10	2	< 10
26230	< 0.2	< 0.5	4	11	< 2	< 1	< 2	2	0.04	< 10	8	< 1	< 10	0.04	< 1	2	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10
26231	< 0.2	0.5	526	428	6	38	< 2	47	1.29	< 10	14	< 1	< 10	0.18	13	108	2.62	0.03	1.16	0.03	0.006	< 10	4	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26172	35	0.05	52	< 10	1	3	4.247
26173	57	0.03	34	< 10	1	2	1.390
26174	53	0.04	39	< 10	2	2	1.179
26175	30	0.04	39	< 10	1	3	3.142
26176	33	0.04	36	< 10	1	3	4.036
26177	59	0.05	48	< 10	1	3	3.767
26178	36	0.04	42	< 10	1	3	4.242
26179	52	0.05	61	< 10	1	4	4.689
26180	2	< 0.01	< 1	< 10	1	4	0.019
26181	41	0.06	61	< 10	1	3	3.201
26182	64	0.08	63	< 10	2	2	1.037
26183	38	0.07	75	< 10	1	4	4.434
26184	35	0.05	66	< 10	1	4	5.655
26185	19	0.07	38	< 10	2	2	1.569
26186	34	0.07	20	< 10	3	1	1.289
26187	28	0.07	24	< 10	2	2	2.453
26188	25	0.07	22	< 10	2	1	1.229
26189	29	0.05	26	< 10	1	1	1.326
26190	72	0.02	36	< 10	< 1	1	0.490
26191	52	0.04	24	< 10	1	1	0.746
26192	63	0.05	32	< 10	2	1	0.705
26193	70	0.04	32	< 10	2	1	0.661
26194	62	0.05	35	< 10	2	2	2.032
26195	70	0.05	31	< 10	2	2	1.531
26195	46	0.07	36	20	3	2	1.569
26197	77	0.05	36	< 10	2	2	1.602
26198	80	0.05	41	< 10	2	2	2.474
26199	52	0.05	35	< 10	2	2	2.856
26200	16	0.10	64	< 10	18	18	7.880
26201	53	0.07	40	< 10	2	1	0.260
26202	47	0.05	46	< 10	2	3	3.041
26203	68	0.03	34	< 10	1	2	2.105
26204	67	0.03	40	< 10	1	3	3.511
26205	62	0.03	35	< 10	1	2	2.056
26206	62	0.03	32	< 10	1	2	1.560
26207	67	0.03	39	< 10	< 1	3	3.376
26208	6	0.04	42	< 10	< 1	2	1.678
26209	29	0.04	48	< 10	2	3	1.715
26210	2	< 0.01	< 1	< 10	1	4	0.077
26211	8	0.05	86	58	2	4	4.930
26212	13	0.04	64	< 10	3	3	2.670
26213	6	0.06	84	< 10	4	5	6.509
26214	5	0.11	95	< 10	9	5	3.444
26215	15	0.06	62	< 10	17	9	0.719
26215	4	0.12	162	< 10	12	5	1.022
26217	9	0.14	101	< 10	19	5	0.913
26218	25	0.14	161	< 10	9	3	0.316
26219	27	0.11	137	< 10	8	2	0.811
26220	70	0.02	36	< 10	< 1	1	0.483
26221	35	0.16	161	< 10	10	4	0.155
26222	5	0.19	67	< 10	20	7	0.098
26223	23	0.21	110	< 10	20	5	0.072

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26224	10	0.16	161	< 10	11	4	0.196
26225	8	0.13	89	< 10	11	7	0.059
26226	10	0.16	130	< 10	9	3	0.267
26227	5	0.08	17	< 10	20	11	0.330
26228	4	0.08	16	< 10	17	8	0.127
26229	4	0.06	6	< 10	27	15	0.513
26230	2	< 0.01	< 1	< 10	1	4	0.017
26231	6	0.05	11	< 10	13	7	0.166

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	28.8	3.4	1110	829	15	29	898	534	0.30	346	252	<1	1410	0.79	9	6	24.5	0.02	0.13	0.06	0.036	79	1	23
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.7	0.8	6530	133	333	37	41	56	2.87	100	38	1	19	0.91	15	52	3.37	1.35	1.62	0.12	0.119	<10	6	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	20.1	4.4	76	1030	<2	15	726	552	3.24	17	1260	1	<10	0.81	10	22	2.08	0.51	0.51	0.26	0.056	32	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	1.0	65	1020	<2	22	91	120	6.55	237	844	<1	<10	0.15	15	78	6.06	0.83	0.39	0.14	0.032	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas							2560																	
OREAS 13P Cert							2020																	
							2500																	
26154 Ong	8.3	6.6	5580	338	<2	3100	136	247	2.88	<10	23	<1	<10	1.74	245	170	13.4	0.04	1.44	0.22	0.008	<10	4	<10
26184 Dup	8.1	6.2	5470	333	<2	3030	132	248	2.81	<10	23	<1	<10	1.71	238	168	13.1	0.04	1.42	0.22	0.008	<10	4	<10
26168 Ong	9.8	6.2	4970	336	<2	1230	171	128	5.60	<10	12	<1	<10	3.62	89	216	6.41	0.03	1.78	0.33	0.012	<10	3	<10
26198 Dup	10.2	6.5	5150	342	<2	1260	173	128	5.70	<10	13	<1	<10	3.68	92	221	6.66	0.04	1.82	0.36	0.012	<10	3	<10
26211 Ong	10.5	5.6	7060	385	<2	753	102	477	3.88	<10	11	<1	14	1.78	126	404	14.5	0.04	3.64	0.03	0.016	<10	9	<10
26211 Dup	10.5	5.5	7070	395	<2	760	109	477	3.81	<10	11	<1	<10	1.77	130	414	14.7	0.04	3.67	0.03	0.016	<10	10	<10
26225 Ong	<0.2	0.6	34	650	<2	45	13	110	2.64	<10	34	<1	<10	1.80	20	107	4.25	0.12	2.45	0.04	0.021	<10	8	<10
26225 Dup	<0.2	0.8	35	648	<2	45	13	107	2.93	<10	35	<1	<10	1.82	20	108	4.25	0.12	2.44	0.04	0.020	<10	8	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	155		80	149	23	14	0.196
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	74		85	13	11	10	1.838
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	93		48	< 10	11	12	0.036
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	31		176	< 10	6	13	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
26184 Orig	35	0.05	67	< 10	1	4	5.844
26184 Dup	34	0.05	66	< 10	1	4	5.465
26168 Orig	78	0.05	40	< 10	2	2	2.436
26168 Dup	81	0.05	42	< 10	2	2	2.512
26211 Orig	6	0.05	86	58	2	4	4.632
26211 Dup	6	0.05	87	58	2	4	4.748
26225 Orig	8	0.13	89	< 10	11	7	0.059
26225 Dup	8	0.13	89	< 10	11	7	0.058
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 09-Jul-08
Invoice No.: A08-3908
Invoice Date: 24-Jul-08
Your Reference: DOSSIER 22759

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

60 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3908**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3908

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26232	< 0.2	0.7	99	739	< 2	33	< 2	83	2.26	< 10	27	< 1	< 10	0.51	17	110	4.03	0.07	2.08	0.05	0.16	< 10	7	< 10
26233	< 0.2	0.8	146	796	< 2	68	< 2	75	2.11	< 10	8	< 1	< 10	2.38	20	206	4.12	0.01	2.12	0.03	0.032	< 10	10	< 10
26234	< 0.2	0.9	123	974	< 2	38	< 2	101	2.85	< 10	19	< 1	< 10	1.33	20	63	8.36	0.05	2.35	0.03	0.063	< 10	12	10
26235	< 0.2	1.2	166	1230	< 2	40	< 2	134	3.01	< 10	19	< 1	< 10	1.44	25	53	6.44	0.07	2.83	0.04	0.071	< 10	16	< 10
26236	< 0.2	1.2	259	1820	< 2	40	< 2	162	3.39	< 10	44	< 1	< 10	0.71	25	59	7.23	0.14	2.83	0.04	0.069	< 10	14	< 10
26237	< 0.2	1.1	19	1370	< 2	39	< 2	132	3.54	< 10	87	< 1	< 10	0.65	22	63	7.02	0.19	2.85	0.04	0.068	< 10	13	< 10
26238	1.2	1.3	487	242	< 2	290	16	39	5.71	< 10	17	< 1	< 10	3.19	25	101	2.50	0.04	1.98	0.61	0.004	< 10	3	< 10
26239	5.8	1.6	2640	177	< 2	1160	16	33	6.66	< 10	18	< 1	< 10	3.72	53	193	3.22	0.04	1.40	0.92	0.010	< 10	4	< 10
26240	0.7	0.6	1330	318	< 2	1540	5	28	6.53	< 10	22	< 1	< 10	3.02	52	144	3.59	0.04	3.42	0.37	0.003	< 10	3	< 10
26241	2.4	0.9	1130	121	< 2	796	13	21	4.46	< 10	12	< 1	< 10	2.63	54	109	2.37	0.02	1.36	0.67	0.006	< 10	3	< 10
26242	0.3	< 0.5	121	87	< 2	90	18	11	5.12	< 10	14	< 1	< 10	3.08	10	74	0.75	0.02	0.88	0.79	0.002	< 10	2	< 10
26243	1.9	0.7	766	87	< 2	487	16	19	5.30	< 10	12	< 1	< 10	3.38	31	92	1.45	0.02	0.91	0.74	0.003	< 10	2	< 10
26244	8.1	1.7	3170	111	< 2	1720	14	27	5.26	< 10	13	< 1	< 10	3.16	77	165	3.45	0.02	1.26	0.60	0.008	< 10	3	< 10
26245	2.9	0.7	1120	89	< 2	601	16	16	5.29	< 10	12	< 1	< 10	3.42	41	110	1.62	0.02	1.01	0.57	0.004	< 10	2	< 10
26246	2.4	1.1	1010	127	< 2	654	16	32	5.72	< 10	20	< 1	< 10	3.49	47	121	2.72	0.07	1.86	0.42	0.006	< 10	4	< 10
26247	3.2	1.1	1300	116	< 2	513	10	25	5.87	< 10	16	< 1	< 10	3.66	44	44	2.89	0.06	1.90	0.32	0.006	< 10	4	< 10
26248	1.5	0.7	729	79	< 2	434	12	19	3.97	< 10	15	< 1	< 10	2.62	36	91	1.97	0.05	1.14	0.25	0.004	< 10	3	< 10
26249	6.2	1.0	1860	150	< 2	800	16	19	5.80	< 10	10	< 1	< 10	3.54	75	71	3.68	0.02	1.60	0.39	0.010	< 10	3	< 10
26250	1.1	2.7	8620	308	< 2	> 10000	7	43	0.51	< 10	5	< 1	< 10	0.39	509	31	32.2	0.11	0.17	0.08	0.048	11	4	< 10
26251	1.3	0.6	582	109	< 2	341	17	13	5.05	< 10	9	< 1	< 10	3.68	38	47	1.97	0.02	1.11	0.35	0.012	< 10	4	< 10
26252	2.2	1.0	966	127	< 2	393	24	16	7.65	< 10	13	< 1	< 10	4.95	35	50	2.85	0.04	1.88	0.40	0.010	< 10	3	< 10
26253	2.4	0.7	1840	180	< 2	595	11	12	3.69	< 10	9	< 1	< 10	2.01	49	62	4.01	0.02	1.84	0.21	0.015	< 10	5	< 10
26254	3.5	1.0	2410	166	< 2	1460	85	57	5.41	< 10	16	< 1	< 10	2.64	105	79	6.54	0.03	1.56	0.34	0.008	< 10	4	< 10
26255	1.5	1.1	991	78	< 2	783	23	14	6.62	< 10	17	< 1	< 10	4.38	50	83	3.48	0.06	0.88	0.36	0.006	< 10	4	< 10
26256	5.1	1.4	3690	114	< 2	2080	14	23	4.02	< 10	16	< 1	< 10	1.87	193	96	8.57	0.09	1.35	0.20	0.005	< 10	5	< 10
26257	6.3	1.6	4040	106	< 2	2360	12	22	3.92	< 10	15	< 1	< 10	2.03	195	81	8.96	0.05	1.11	0.22	0.008	< 10	3	< 10
26258	6.4	1.4	4850	103	< 2	2570	14	23	3.85	< 10	17	< 1	< 10	1.84	227	80	10.00	0.05	1.07	0.21	0.008	< 10	3	< 10
26259	3.2	1.5	1940	193	< 2	1200	16	37	5.43	< 10	19	< 1	< 10	2.96	64	145	5.80	0.06	1.62	0.25	0.005	< 10	4	< 10
26260	< 0.2	< 0.5	3	13	< 2	2	< 2	3	0.07	< 10	8	< 1	< 10	0.04	< 1	6	0.08	0.01	0.08	0.01	0.006	< 10	< 1	< 10
26261	4.7	3.1	2320	81	< 2	1400	15	42	6.03	< 10	15	< 1	< 10	3.75	83	112	4.94	0.02	0.88	0.29	0.005	< 10	3	< 10
26262	4.3	2.9	1920	109	< 2	977	20	48	6.15	< 10	21	< 1	< 10	4.31	59	246	3.84	0.08	0.94	0.27	0.006	< 10	3	< 10
26263	1.5	1.1	694	206	< 2	388	10	68	4.43	< 10	35	< 1	< 10	1.73	32	250	3.39	0.33	2.29	0.14	0.003	< 10	3	< 10
26264	< 0.2	0.6	104	273	< 2	15	2	77	3.03	< 10	283	< 1	< 10	0.09	8	92	3.02	0.63	2.15	0.06	0.001	< 10	5	< 10
26265	2.4	1.2	826	265	< 2	197	9	159	4.29	< 10	48	< 1	< 10	1.17	25	73	5.61	0.89	2.24	0.18	0.008	< 10	8	< 10
26266	4.8	2.0	2010	336	< 2	306	8	155	3.66	< 10	30	< 1	14	1.21	45	64	8.30	0.59	1.87	0.14	0.005	< 10	6	< 10
26267	5.9	4.4	2090	383	< 2	397	8	329	4.91	< 10	35	< 1	< 10	1.71	41	73	6.85	1.12	2.40	0.21	0.006	< 10	9	< 10
26268	1.3	0.9	547	370	< 2	99	9	168	4.88	< 10	163	< 1	< 10	1.53	20	87	6.20	1.04	2.40	0.20	0.006	< 10	9	< 10
26269	1.2	1.0	436	367	< 2	41	10	153	4.65	< 10	184	< 1	< 10	1.36	13	83	4.16	0.91	2.38	0.21	0.009	< 10	9	< 10
26270	0.7	0.6	1670	316	< 2	1630	< 2	27	5.94	< 10	23	< 1	< 10	3.00	62	142	3.97	0.04	3.39	0.33	0.003	< 10	3	< 10
26271	< 0.2	0.5	71	313	< 2	10	6	131	3.37	< 10	199	< 1	< 10	0.72	8	83	3.01	0.71	1.98	0.14	0.016	< 10	5	< 10
26272	2.0	1.4	1040	513	< 2	67	7	183	4.35	< 10	139	< 1	< 10	1.60	17	66	5.32	0.67	2.62	0.13	0.023	< 10	7	< 10
26273	0.5	0.7	226	334	< 2	12	7	146	4.27	< 10	117	< 1	< 10	1.68	10	78	3.36	0.59	1.98	0.14	0.017	< 10	4	< 10
26274	0.3	0.7	354	316	< 2	8	9	167	4.26	< 10	143	< 1	< 10	1.63	11	81	3.66	0.59	2.07	0.16	0.012	< 10	4	< 10
26275	0.4	1.1	172	304	2	134	9	130	3.85	< 10	261	< 1	< 10	1.02	12	101	3.25	0.70	1.93	0.24	0.007	< 10	4	< 10
26276	1.9	1.3	891	282	< 2	192	11	172	4.35	< 10	116	< 1	< 10	1.43	16	92	4.45	0.92	2.28	0.19	0.011	< 10	5	< 10
26277	6.7	4.5	3130	335	3	173	6	237	3.74	< 10	48	< 1	12	0.94	21	74	5.27	0.36	2.81	0.13	0.015	< 10	4	< 10
26278	6.9	3.1	2790	263	< 2	300	8	212	4.61	< 10	33	< 1	< 10	1.68	55	70	6.97	0.72	2.28	0.18	0.014	< 10	4	< 10
26279	4.5	2.2	1620	171	< 2	183	17	111	5.13	< 10	124	< 1	< 10	1.77	23	186	3.75	0.42	3.44	0.41	0.007	< 10	8	< 10
26280	< 0.2	< 0.5	4	10	< 2	< 1	< 2	2	0.04	< 10	8	< 1	< 10	0.03	< 1	2	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10
26281	2.8	0.7	1030	67	< 2	338	35	31	6.80	< 10	66	< 1	< 10	4.31	30	286	2.14	0.27	1.18	0.67	0.006	< 10	3	< 10
26282	2.4	1.0	796	82	< 2	205	36	17	7.46	< 10	28	< 1	< 10	5.17	21	152	1.28	0.06	0.74	0.63	0.020	< 10	2	< 10
26283	2.3	1.1	682	139	< 2	186	43	18	7.12	< 10	13	< 1	< 10	5.52	21	139	1.60	0.02	0.66	0.66	0.005	< 10	5	< 10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26284	1.7	0.6	464	107	< 2	125	43	12	7.01	< 10	15	< 1	< 10	5.23	16	104	1.16	0.01	0.74	0.63	0.005	< 10	3	< 10
26285	2.2	0.8	536	137	< 2	236	37	18	7.36	< 10	26	< 1	< 10	6.40	27	117	1.86	0.08	1.17	0.57	0.005	< 10	4	< 10
26286	0.6	< 0.5	200	160	< 2	135	31	16	6.60	< 10	22	< 1	< 10	6.09	10	93	1.71	0.07	1.35	0.51	0.015	< 10	3	< 10
26287	1.2	< 0.5	307	161	< 2	144	29	13	6.67	< 10	13	< 1	< 10	5.43	19	156	1.62	0.02	1.15	0.56	0.008	< 10	5	< 10
26022	< 0.2	< 0.5	10	74	< 2	41	< 2	16	2.94	< 10	235	< 1	< 10	1.56	17	102	1.70	0.66	1.72	0.20	0.026	< 10	5	< 10
26023	< 0.2	< 0.5	31	236	< 2	246	< 2	41	3.56	< 10	12	< 1	< 10	1.47	34	175	3.29	0.04	4.13	0.11	0.007	< 10	2	< 10
26024	< 0.2	< 0.5	15	221	< 2	224	< 2	37	2.66	< 10	9	< 1	< 10	1.22	28	166	2.86	0.02	3.61	0.09	0.006	< 10	2	< 10
26025	< 0.2	0.6	30	247	< 2	236	< 2	44	3.78	< 10	14	< 1	< 10	1.69	32	149	3.37	0.04	3.73	0.13	0.006	< 10	3	< 10

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26232	17	0.12	47	< 10	25	16	0.072
26233	32	0.11	112	< 10	7	3	0.096
26234	48	0.21	113	< 10	16	10	0.057
26235	20	0.24	149	< 10	16	10	0.077
26236	15	0.26	148	< 10	14	7	0.140
26237	14	0.25	135	< 10	15	7	0.031
26238	88	0.02	22	< 10	1	< 1	0.218
26239	113	0.02	28	< 10	1	2	1.108
26240	72	0.02	36	< 10	< 1	1	0.475
26241	73	0.01	26	< 10	< 1	< 1	0.764
26242	95	< 0.01	12	< 10	< 1	< 1	0.099
26243	93	< 0.01	11	< 10	< 1	< 1	0.463
26244	77	< 0.01	21	< 10	< 1	1	1.294
26245	72	< 0.01	25	< 10	< 1	< 1	0.570
26246	66	0.02	56	< 10	< 1	< 1	0.785
26247	70	0.02	64	< 10	< 1	1	0.820
26248	44	0.01	33	< 10	1	1	0.625
26249	59	< 0.01	23	< 10	1	2	1.714
26250	18	0.11	63	< 10	16	18	8.074
26251	59	0.01	26	< 10	1	1	0.528
26252	82	0.01	40	< 10	< 1	1	0.748
26253	35	0.03	33	< 10	1	2	1.208
26254	46	0.03	40	< 10	1	3	2.312
26255	66	0.03	31	< 10	< 1	2	1.301
26256	23	0.04	45	< 10	1	3	3.066
26257	18	0.04	39	< 10	1	4	3.393
26258	18	0.04	39	< 10	1	4	3.811
26259	34	0.02	33	< 10	1	3	1.786
26260	2	< 0.01	1	< 10	1	4	0.018
26261	54	< 0.01	14	< 10	< 1	2	1.647
26262	59	0.02	16	< 10	1	3	1.414
26263	28	0.03	22	< 10	1	2	0.868
26264	12	0.03	19	< 10	1	3	0.028
26265	23	0.10	44	< 10	3	5	0.799
26266	23	0.06	50	< 10	2	4	1.398
26267	25	0.15	76	< 10	3	5	1.456
26268	29	0.15	72	< 10	3	4	0.488
26269	33	0.13	54	< 10	4	4	0.183
26270	72	0.02	36	< 10	< 1	2	0.472
26271	19	0.07	15	< 10	3	5	0.028
26272	24	0.13	56	< 10	7	4	0.383
26273	24	0.11	33	< 10	6	5	0.113
26274	23	0.09	15	< 10	6	8	0.341
26275	19	0.07	12	< 10	3	7	0.271
26276	18	0.11	39	< 10	4	4	0.548
26277	20	0.08	31	< 10	8	4	0.912
26278	18	0.11	63	< 10	5	5	1.581
26279	38	0.08	46	< 10	3	2	0.386
26280	2	< 0.01	< 1	< 10	1	4	0.016
26281	75	0.04	48	< 10	3	3	0.695
26282	86	0.02	15	< 10	3	3	0.379
26283	121	0.02	16	< 10	2	2	0.387

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26264	129	0.01	13	< 10	< 1	2	0.260
26265	122	0.03	21	< 10	1	1	0.392
26266	102	0.03	19	< 10	1	1	0.173
26267	126	0.03	26	< 10	1	< 1	0.219
26022	25	0.12	48	< 10	2	5	0.017
26023	12	0.03	20	< 10	< 1	1	0.016
26024	9	0.03	16	< 10	< 1	1	0.010
26025	24	0.03	23	< 10	< 1	1	0.018

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	29.1	3.4	1160	795	15	32	572	538	0.32	348	178	<1	1420	0.77	10	6	25.1	0.02	0.13	0.06	0.036	77	<1	23
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.8	0.6	6670	144	338	39	43	59	2.83	103	36	1	22	0.94	15	53	3.55	1.39	1.66	0.12	0.122	<10	7	<10
GXR-4 Cert	4.00	0.660	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.064	0.120	4.80	7.70	5.60
GXR-2 Meas	19.2	4.3	75	982	<2	16	680	515	3.29	13	1270	1	<10	0.78	9	22	2.02	0.60	0.60	0.25	0.053	29	4	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.9	69	1010	<2	23	92	117	6.95	236	89	<1	<10	0.16	17	76	5.24	0.87	0.41	0.15	0.032	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2780			2060											6.02							
OREAS 13P Cert			2500			2260											7.58							
26244 Ong	8.1	1.7	3240	111	<2	1700	13	27	5.35	<10	13	<1	<10	3.12	77	164	3.44	0.02	1.28	0.61	0.008	<10	3	<10
26244 Dup	8.0	1.8	3090	112	<2	1750	15	27	5.17	<10	13	<1	<10	3.20	78	166	3.46	0.02	1.27	0.59	0.008	<10	3	<10
26268 Ong	6.4	1.4	4850	103	<2	2580	13	22	3.63	<10	15	<1	<10	1.72	226	80	10.2	0.05	1.07	0.21	0.008	<10	3	<10
26268 Dup	6.4	1.3	4860	103	<2	2560	16	23	3.87	<10	18	<1	<10	1.97	229	80	9.84	0.05	1.08	0.21	0.008	<10	3	<10
26271 Ong	<0.2	0.5	73	314	<2	12	6	132	3.39	<10	202	<1	<10	0.72	8	64	3.05	0.72	1.58	0.14	0.016	<10	4	<10
26271 Dup	<0.2	0.5	70	313	<2	8	5	130	3.35	<10	197	<1	<10	0.72	7	62	2.96	0.70	1.64	0.14	0.016	<10	4	<10
26285 Ong	2.1	1.0	54.5	137	<2	242	38	16	7.48	<10	26	<1	<10	5.45	28	117	1.87	0.09	1.18	0.56	0.005	<10	4	<10
26285 Dup	2.2	0.7	530	137	<2	233	36	19	7.24	<10	25	<1	<10	5.35	26	117	1.83	0.08	1.18	0.56	0.005	<10	4	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	8	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	8	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	158		80	132	23	14	0.196
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	73		87	12	12	10	1.885
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	52		47	< 10	10	13	0.035
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	32		179	< 10	7	13	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
26244 Orig	77	< 0.01	21	< 10	< 1	1	1.265
26244 Dup	76	< 0.01	21	< 10	< 1	1	1.324
26268 Orig	17	0.04	39	< 10	1	4	4.088
26268 Dup	18	0.04	38	< 10	1	4	3.136
26271 Orig	20	0.08	15	< 10	3	5	0.036
26271 Dup	19	0.07	14	< 10	3	4	0.019
26285 Orig	124	0.03	21	< 10	1	2	0.397
26285 Dup	120	0.03	21	< 10	1	1	0.386
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 09-Jul-08
Invoice No.: A08-3927
Invoice Date: 21-Jul-08
Your Reference: DOSSIER 22760

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

39 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3927**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3927

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
24113	0.2	< 0.5	92	85	< 2	92	32	22	6.63	< 10	155	< 1	< 10	3.22	14	547	2.02	0.82	2.04	0.69	0.004	< 10	6	< 10
24114	1.2	0.9	641	216	< 2	50	2	39	3.24	< 10	364	< 1	< 10	0.08	10	122	2.76	0.60	2.05	0.10	0.004	< 10	4	< 10
24115	1.3	0.7	778	128	< 2	141	4	28	5.90	< 10	74	< 1	< 10	3.50	18	199	2.89	0.34	1.50	0.33	0.006	< 10	6	< 10
24116	0.2	< 0.5	95	71	< 2	30	7	10	9.13	< 10	19	< 1	< 10	6.53	4	124	0.67	0.02	0.50	0.70	0.006	< 10	3	< 10
24117	1.4	< 0.5	646	91	< 2	101	6	15	8.84	< 10	11	< 1	< 10	6.26	13	120	1.06	0.01	0.60	0.71	0.009	< 10	4	< 10
24118	0.8	< 0.5	347	73	< 2	93	6	12	7.80	< 10	11	< 1	< 10	5.67	11	84	0.85	0.02	0.50	0.65	0.005	< 10	2	< 10
24119	0.6	< 0.5	248	98	< 2	85	7	13	8.25	< 10	11	< 1	< 10	6.02	11	127	0.99	0.03	0.73	0.73	0.004	< 10	3	< 10
24120	0.7	0.7	1360	303	< 2	1380	< 2	28	6.02	< 10	28	< 1	< 10	2.99	50	160	3.72	0.03	3.41	0.38	0.003	< 10	3	< 10
24121	0.4	< 0.5	197	122	< 2	87	4	16	7.45	< 10	16	< 1	< 10	5.49	12	171	1.28	0.58	0.98	0.54	0.006	< 10	4	< 10
24122	0.4	< 0.5	184	101	< 2	54	4	17	6.87	< 10	12	< 1	< 10	5.29	8	136	0.96	0.03	0.81	0.49	0.006	< 10	4	< 10
23681	< 0.2	0.7	157	596	< 2	35	2	69	2.60	< 10	37	< 1	< 10	1.89	41	78	4.38	0.19	1.77	0.09	0.028	< 10	9	< 10
23682	0.3	< 0.5	355	231	< 2	81	2	13	4.75	< 10	12	< 1	< 10	4.09	15	133	1.71	0.02	1.05	0.54	0.124	< 10	5	< 10
23683	< 0.2	< 0.5	168	475	< 2	132	< 2	29	6.93	< 10	16	< 1	< 10	4.98	19	417	3.33	0.04	2.81	0.36	0.012	< 10	4	< 10
23684	< 0.2	0.5	80	215	< 2	74	3	45	3.27	< 10	22	< 1	< 10	1.64	20	180	2.82	0.42	3.43	0.20	0.029	< 10	4	< 10
23685	0.2	< 0.5	193	107	< 2	119	6	15	7.55	< 10	31	< 1	< 10	5.03	15	335	1.44	0.14	1.80	0.51	0.003	< 10	3	< 10
23686	0.4	< 0.5	490	92	< 2	91	6	11	5.84	< 10	17	< 1	< 10	4.04	13	178	1.02	0.06	1.27	0.48	0.002	< 10	2	< 10
23687	1.4	0.5	897	143	< 2	475	3	28	3.43	< 10	30	< 1	< 10	1.70	55	199	3.14	0.10	3.25	0.12	0.006	< 10	3	< 10
23688	0.6	0.8	394	143	< 2	366	4	25	3.63	< 10	22	< 1	< 10	1.97	41	226	2.69	0.06	2.69	0.12	0.008	< 10	3	< 10
23689	0.4	< 0.5	283	136	< 2	49	3	19	2.25	< 10	9	< 1	< 10	1.18	10	150	1.32	0.01	1.82	0.14	0.002	< 10	2	< 10
23690	< 0.2	< 0.5	4	11	< 2	< 1	< 2	1	0.04	< 10	9	< 1	< 10	0.15	< 1	2	0.03	0.01	0.01	0.01	0.003	< 10	< 1	< 10
28111	3.3	4.1	2260	109	< 2	1380	83	73	6.39	< 10	12	< 1	< 10	3.90	98	264	7.61	0.03	0.88	0.44	0.006	< 10	5	< 10
28120	0.6	0.8	1370	311	< 2	1410	7	27	6.19	< 10	28	< 1	< 10	3.04	51	164	3.81	0.03	3.52	0.38	0.003	< 10	3	< 10
24171	14.7	2.6	4980	181	< 2	1610	65	47	4.25	< 10	21	< 1	< 10	2.58	66	155	7.71	0.27	1.91	0.29	0.008	< 10	6	< 10
24172	10.4	4.8	4290	209	< 2	1610	106	51	4.65	< 10	18	< 1	< 10	2.41	113	162	7.03	0.01	1.07	0.58	0.010	< 10	6	< 10
24173	4.5	3.9	2040	358	< 2	1240	64	76	3.87	< 10	14	< 1	< 10	1.96	94	339	7.44	0.04	3.00	0.22	0.008	< 10	4	< 10
24174	7.2	3.6	4140	430	< 2	1330	66	54	4.11	< 10	14	< 1	< 10	1.98	110	461	8.69	0.03	2.90	0.18	0.009	< 10	4	< 10
24175	6.7	7.5	1630	381	< 2	1180	178	80	4.59	< 10	12	< 1	< 10	2.97	58	429	4.95	0.03	3.05	0.17	0.010	< 10	3	< 10
24176	12.5	11.2	3140	359	< 2	1200	168	83	5.75	< 10	14	< 1	< 10	4.09	73	368	4.92	0.04	2.54	0.23	0.013	< 10	4	< 10
24177	7.9	5.0	1890	293	< 2	997	106	82	4.65	< 10	9	< 1	< 10	2.74	55	339	4.44	0.02	3.35	0.17	0.009	< 10	3	< 10
24178	13.0	7.0	3390	295	< 2	2040	41	113	3.03	< 10	6	< 1	< 10	1.22	128	305	5.46	0.01	4.17	0.05	0.010	< 10	3	< 10
24179	8.3	5.3	2320	417	< 2	1220	49	113	4.41	< 10	6	< 1	< 10	2.26	80	362	6.35	< 0.01	5.69	0.06	0.007	< 10	4	< 10
24180	0.6	0.8	1480	302	< 2	1370	3	27	6.21	< 10	25	< 1	< 10	2.91	51	180	3.68	0.02	3.39	0.38	0.002	< 10	3	< 10
27544	0.3	< 0.5	175	155	< 2	127	2	13	6.43	< 10	12	< 1	< 10	4.61	17	120	1.44	0.01	1.11	0.56	0.004	< 10	4	< 10
27545	0.3	< 0.5	157	88	< 2	58	2	9	6.76	< 10	12	< 1	< 10	5.03	7	114	0.81	< 0.01	0.80	0.70	0.004	< 10	4	< 10
27546	< 0.2	< 0.5	72	67	< 2	31	< 2	7	5.65	< 10	15	< 1	< 10	4.15	5	122	0.67	0.03	0.70	0.56	0.006	< 10	3	< 10
27547	< 0.2	< 0.5	115	69	< 2	41	< 2	7	7.66	< 10	10	< 1	< 10	5.51	5	143	0.67	0.02	0.76	0.67	0.002	< 10	3	< 10
27548	0.3	< 0.5	247	73	< 2	89	< 2	8	7.65	< 10	11	< 1	< 10	5.55	9	128	0.76	0.02	0.78	0.56	0.003	< 10	3	< 10
27549	< 0.2	< 0.5	304	69	< 2	60	< 2	5	8.71	< 10	12	< 1	< 10	5.77	9	107	0.77	0.02	0.69	0.63	0.015	< 10	3	< 10
27561	< 0.2	< 0.5	117	39	< 2	41	2	4	6.84	< 10	12	< 1	< 10	4.88	5	71	0.40	0.02	0.43	0.60	0.002	< 10	1	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24113	72	0.08	67	< 10	1	< 1	0.075
24114	7	0.06	16	< 10	1	3	0.157
24115	53	0.04	38	< 10	2	2	0.557
24116	125	0.02	13	< 10	2	1	0.062
24117	132	0.02	19	< 10	2	1	0.206
24118	143	0.02	14	< 10	< 1	< 1	0.165
24119	153	0.02	17	< 10	< 1	< 1	0.118
24120	77	0.02	37	< 10	< 1	1	0.488
24121	125	0.03	23	< 10	1	< 1	0.112
24122	102	0.03	21	< 10	1	< 1	0.071
23681	14	0.15	98	< 10	16	8	0.337
23682	78	0.17	41	< 10	4	3	0.111
23683	81	0.05	43	< 10	2	1	0.071
23684	28	0.05	31	178	2	7	0.031
23685	88	0.03	36	12	< 1	< 1	0.059
23686	74	< 0.01	16	< 10	1	1	0.080
23687	17	0.04	29	< 10	< 1	1	0.399
23688	21	0.04	26	< 10	< 1	1	0.256
23689	14	< 0.01	18	< 10	3	3	0.043
23690	2	< 0.01	< 1	< 10	1	5	0.007
28111	79	0.02	50	< 10	1	3	2.297
28120	80	0.02	37	< 10	< 1	1	0.500
24171	56	0.07	57	< 10	3	3	2.136
24172	74	0.03	41	< 10	2	2	2.338
24173	32	0.04	41	< 10	1	3	1.876
24174	37	0.05	47	< 10	2	3	2.768
24175	50	0.05	33	< 10	1	2	1.062
24176	81	0.05	36	< 10	2	2	1.169
24177	43	0.03	29	< 10	< 1	1	0.889
24178	3	0.02	27	< 10	< 1	2	1.907
24179	5	0.02	40	< 10	1	2	0.833
24180	78	0.02	36	< 10	< 1	1	0.482
27644	94	0.02	20	< 10	< 1	< 1	0.164
27645	107	0.01	16	< 10	< 1	< 1	0.073
27646	79	0.01	18	< 10	< 1	< 1	0.039
27647	114	0.01	15	< 10	< 1	< 1	0.055
27648	109	0.01	16	< 10	< 1	< 1	0.092
27649	125	0.03	18	< 10	1	< 1	0.112
27661	110	< 0.01	6	< 10	< 1	< 1	0.057

Activation Laboratories Ltd. Report: A08-3927

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	29.1	3.4	1180	795	15	32	572	538	0.32	348	178	<1	1420	0.77	10	6	25.1	0.02	0.13	0.06	0.036	77	<1	23
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.8	0.5	6670	144	338	39	43	59	2.83	103	36	1	22	0.94	15	53	3.55	1.39	1.55	0.12	0.122	<10	7	<10
GXR-4 Cert	4.00	0.660	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.56	0.064	0.120	4.80	7.70	5.60
GXR-2 Meas	19.2	4.3	75	982	<2	16	680	515	3.29	13	1270	1	<10	0.78	9	22	2.02	0.50	0.50	0.25	0.053	29	4	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.9	69	1010	<2	23	92	117	6.95	236	89	<1	<10	0.16	17	75	5.24	0.87	0.41	0.15	0.032	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.5	1.70
OREAS 13P Meas			2780			2060											6.02							
OREAS 13P Cert			2500			2260											7.58							
23683 Orig	< 0.2	< 0.5	169	474	< 2	133	3	29	6.55	< 10	16	< 1	< 10	4.96	19	410	3.31	0.03	2.55	0.36	0.013	< 10	4	< 10
23683 Dup	< 0.2	0.5	167	477	< 2	131	< 2	28	6.82	< 10	17	< 1	< 10	4.99	20	423	3.35	0.04	2.62	0.36	0.012	< 10	4	< 10
24174 Orig	7.2	3.6	4160	433	< 2	1330	66	54	4.15	< 10	14	< 1	< 10	1.80	114	457	6.66	0.03	2.63	0.18	0.009	< 10	4	< 10
24174 Dup	7.2	3.5	4120	426	< 2	1330	64	63	4.08	< 10	15	< 1	< 10	2.18	107	445	6.53	0.03	2.87	0.18	0.009	< 10	4	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	158		80	132	23	14	0.196
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	73		87	12	12	10	1.885
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	52		47	< 10	10	13	0.035
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	32		179	< 10	7	13	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
23683 Orig	81	0.05	43	< 10	2	1	0.071
23683 Dup	82	0.05	44	< 10	2	1	0.071
24174 Orig	36	0.05	48	< 10	2	3	2.070
24174 Dup	39	0.05	47	< 10	2	3	2.467
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 09-Jul-08
Invoice No.: A08-3926
Invoice Date: 04-Aug-08
Your Reference: DOSSIER 22763

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

44 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3926**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3926

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
24726	< 0.2	< 0.5	49	596	< 2	122	< 2	36	3.46	< 10	9	< 1	< 10	3.68	32	416	5.03	0.01	3.27	0.10	0.012	< 10	7	< 10
24727	< 0.2	< 0.5	16	274	< 2	76	< 2	19	5.17	< 10	17	< 1	< 10	3.80	15	246	2.46	0.02	2.06	0.66	0.009	< 10	4	< 10
24728	< 0.2	< 0.5	16	388	< 2	102	< 2	26	4.83	< 10	15	< 1	< 10	3.38	20	367	3.27	0.03	2.98	0.45	0.006	< 10	6	< 10
24729	< 0.2	< 0.5	85	561	< 2	143	< 2	31	4.35	< 10	8	< 1	< 10	3.19	27	378	4.35	0.05	4.25	0.06	0.013	< 10	7	< 10
24730	< 0.2	< 0.5	1	210	< 2	6	4	16	0.09	< 10	1040	< 1	< 10	11.3	< 1	37	0.16	< 0.01	7.50	0.08	0.004	< 10	< 1	< 10
24731	< 0.2	< 0.5	82	613	< 2	169	< 2	32	4.59	< 10	7	< 1	< 10	4.87	27	470	4.89	0.02	4.13	0.03	0.006	< 10	9	< 10
24732	< 0.2	< 0.5	7	724	< 2	179	< 2	41	4.69	< 10	18	< 1	< 10	2.67	34	499	5.56	0.01	5.10	0.04	0.004	< 10	10	< 10
24733	< 0.2	< 0.5	10	727	< 2	211	< 2	45	4.69	< 10	6	< 1	< 10	2.73	37	562	6.10	0.01	5.88	0.04	0.002	< 10	10	< 10
24734	< 0.2	< 0.5	22	691	< 2	184	< 2	41	4.13	< 10	10	< 1	< 10	4.59	33	491	5.21	0.01	4.74	0.04	0.003	< 10	8	< 10
24735	< 0.2	< 0.5	56	496	< 2	169	< 2	33	4.43	< 10	13	< 1	< 10	3.01	28	397	4.20	0.03	3.71	0.26	0.006	< 10	6	< 10
24738	< 0.2	< 0.5	103	893	< 2	88	< 2	45	3.65	< 10	8	< 1	< 10	2.54	34	169	6.76	0.01	2.72	0.04	0.032	< 10	8	< 10
24739	< 0.2	< 0.5	87	436	< 2	47	< 2	26	2.77	< 10	9	< 1	< 10	2.51	28	96	4.27	0.01	1.63	0.09	0.031	< 10	6	< 10
24740	0.6	< 0.5	1490	316	< 2	1560	< 2	27	5.44	< 10	24	< 1	< 10	3.03	52	147	3.53	0.04	3.43	0.36	0.002	< 10	3	< 10
24741	< 0.2	< 0.5	303	429	< 2	97	7	28	3.63	< 10	19	< 1	< 10	3.36	28	86	3.62	0.04	1.21	0.42	0.035	< 10	9	< 10
24742	< 0.2	< 0.5	159	490	< 2	67	7	40	2.28	< 10	17	< 1	< 10	2.28	28	80	4.43	0.05	1.60	0.21	0.037	< 10	11	< 10
24743	< 0.2	< 0.5	194	416	< 2	170	< 2	45	4.32	< 10	13	< 1	< 10	2.17	36	164	6.62	0.09	4.04	0.07	0.016	< 10	4	< 10
24744	0.3	< 0.5	336	221	< 2	81	6	35	3.10	< 10	31	< 1	< 10	1.77	21	128	3.01	0.13	2.54	0.14	0.013	< 10	4	< 10
24745	0.3	< 0.5	291	117	< 2	16	6	21	1.67	< 10	42	< 1	< 10	0.33	11	76	1.93	0.16	1.71	0.06	0.018	< 10	3	< 10
24746	1.0	0.6	788	134	3	17	3	28	2.48	< 10	83	< 1	< 10	0.22	11	77	2.27	0.28	1.91	0.08	0.022	< 10	3	< 10
24747	1.7	0.7	1200	156	< 2	124	7	36	2.67	< 10	89	< 1	< 10	0.76	26	90	3.34	0.27	2.87	0.06	0.012	< 10	6	< 10
24748	< 0.2	< 0.5	196	232	< 2	241	13	21	2.69	< 10	11	< 1	< 10	1.83	27	206	2.21	0.04	2.04	0.11	0.012	< 10	2	< 10
24749	0.6	1.4	320	260	< 2	426	33	98	2.70	< 10	8	< 1	< 10	0.99	46	289	3.61	0.02	3.75	0.08	0.008	< 10	2	< 10
28691	0.3	< 0.5	110	294	< 2	64	27	30	4.08	< 10	10	< 1	< 10	3.66	16	143	2.36	0.03	1.67	0.34	0.013	< 10	10	< 10
24760	1.1	1.7	8430	327	< 2	> 10000	6	42	0.61	< 10	6	< 1	< 10	0.43	652	33	34.6	0.12	0.19	0.09	0.044	< 10	4	< 10
24761	3.0	< 0.5	1900	232	< 2	1140	19	71	2.82	< 10	5	< 1	< 10	0.45	74	266	4.21	< 0.01	3.96	0.04	0.011	< 10	< 1	< 10
24762	1.4	0.6	699	259	< 2	726	6	55	2.66	< 10	5	< 1	< 10	0.64	55	274	3.88	< 0.01	4.32	0.06	0.007	< 10	1	< 10
24763	1.4	0.7	584	280	< 2	667	27	68	3.01	< 10	6	< 1	< 10	0.67	54	302	3.79	0.01	4.68	0.07	0.006	< 10	2	< 10
24764	1.3	< 0.5	711	238	< 2	612	20	41	2.68	< 10	12	< 1	< 10	1.51	42	166	2.78	0.04	2.51	0.11	0.011	< 10	2	< 10
24765	6.2	1.1	2780	336	< 2	1610	44	95	3.17	< 10	8	< 1	< 10	1.10	93	363	6.40	0.02	4.06	0.09	0.006	< 10	3	< 10
24766	2.3	0.6	1530	237	< 2	1060	50	49	4.60	< 10	10	< 1	< 10	3.09	53	211	3.56	0.03	2.59	0.21	0.003	< 10	2	< 10
24767	2.0	0.6	1280	230	< 2	748	28	56	3.15	< 10	12	< 1	< 10	1.69	60	302	3.40	0.05	2.93	0.14	0.006	< 10	2	< 10
24768	2.6	0.7	1690	108	< 2	280	41	41	4.42	< 10	9	< 1	< 10	3.32	32	96	1.66	0.02	1.00	0.40	0.020	< 10	2	< 10
24769	5.5	1.3	3180	90	< 2	566	18	82	2.60	< 10	33	< 1	< 10	1.29	50	626	3.37	0.18	1.80	0.25	0.008	< 10	3	< 10
24790	0.6	< 0.5	1510	322	< 2	1600	3	27	5.47	< 10	24	< 1	< 10	3.09	50	161	3.64	0.04	3.61	0.36	0.002	< 10	3	< 10
24791	< 0.2	< 0.5	44	351	3	18	< 2	97	2.53	< 10	105	< 1	< 10	0.25	7	86	3.20	0.52	1.66	0.06	0.020	< 10	3	< 10
24792	< 0.2	< 0.5	16	314	< 2	12	3	125	2.10	< 10	85	< 1	< 10	0.13	5	106	2.80	0.45	1.67	0.04	0.008	< 10	2	< 10
24793	< 0.2	< 0.5	11	454	3	11	5	125	2.69	< 10	236	< 1	< 10	0.15	14	96	4.77	0.73	1.72	0.07	0.006	< 10	4	< 10
24794	2.4	27.7	830	521	< 2	64	152	6520	1.62	< 10	19	< 1	< 10	0.78	96	114	6.96	0.03	1.71	0.03	0.010	< 10	2	< 10
24795	< 0.2	< 0.5	36	877	< 2	91	< 2	105	3.78	< 10	10	< 1	< 10	1.61	36	137	8.11	0.02	3.67	0.08	0.034	< 10	12	< 10
24796	< 0.2	0.8	42	892	< 2	73	< 2	130	2.94	< 10	11	< 1	< 10	1.89	27	158	5.24	0.03	2.24	0.07	0.050	< 10	7	< 10
24797	0.2	< 0.5	109	654	< 2	58	< 2	89	2.64	< 10	47	< 1	< 10	1.07	25	69	5.10	0.12	2.42	0.06	0.043	< 10	9	< 10
24798	< 0.2	13.0	387	900	< 2	42	< 2	615	3.66	< 10	352	< 1	< 10	1.15	24	66	5.24	0.89	2.67	0.30	0.074	< 10	11	< 10
24799	< 0.2	0.7	189	675	< 2	46	2	311	3.42	< 10	326	< 1	< 10	0.75	29	76	6.65	1.02	2.94	0.16	0.062	< 10	11	< 10
24800	1.1	1.5	8460	299	< 2	> 10000	6	41	0.63	< 10	17	< 1	< 10	0.43	651	32	33.6	0.12	0.16	0.10	0.044	< 10	4	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24725	38	0.11	97	< 10	3	2	0.109
24727	85	0.04	36	< 10	2	1	0.049
24728	71	0.05	48	< 10	2	1	0.031
24729	34	0.05	66	< 10	2	2	0.065
24730	136	< 0.01	2	< 10	< 1	< 1	0.133
24731	34	0.08	70	< 10	3	1	0.053
24732	14	0.07	73	< 10	2	2	0.028
24733	35	0.05	73	< 10	2	2	0.027
24734	23	0.07	61	< 10	2	2	0.057
24735	42	0.05	46	< 10	2	1	0.035
24738	23	0.28	148	< 10	7	3	0.121
24739	30	0.24	103	< 10	7	3	0.156
24740	73	0.02	35	< 10	< 1	1	0.483
24741	75	0.12	83	< 10	7	2	0.419
24742	27	0.15	112	< 10	8	2	0.251
24743	11	0.05	80	< 10	2	2	0.050
24744	22	0.10	70	< 10	4	2	0.082
24745	7	0.05	15	< 10	5	4	0.107
24746	9	0.05	11	< 10	4	4	0.201
24747	15	0.08	33	< 10	6	2	0.309
24748	52	0.04	25	< 10	1	1	0.117
24749	11	0.03	22	< 10	< 1	1	0.272
28691	75	0.05	61	< 10	3	1	0.102
24750	17	0.11	84	< 10	17	20	10.19
24751	2	0.02	16	< 10	< 1	1	0.754
24752	2	0.02	19	< 10	< 1	1	0.390
24753	2	0.02	19	< 10	< 1	1	0.312
24754	29	0.02	15	< 10	2	1	0.355
24755	13	0.03	24	< 10	< 1	2	1.344
24756	71	0.02	18	< 10	< 1	1	0.935
24757	34	0.03	19	< 10	1	2	0.682
24758	82	0.03	11	< 10	3	1	0.423
24759	31	0.05	56	< 10	2	2	1.189
24760	75	0.02	36	< 10	< 1	1	0.495
24761	12	0.07	12	< 10	13	10	0.034
24762	8	0.04	5	< 10	13	12	0.037
24763	9	0.05	9	< 10	11	9	0.049
24764	7	0.04	15	< 10	12	8	2.451
24765	22	0.21	172	< 10	9	3	0.241
24766	29	0.14	115	< 10	7	3	0.147
24767	21	0.15	106	< 10	7	5	0.160
24768	23	0.19	151	< 10	9	6	0.268
24769	15	0.24	181	< 10	9	6	0.059
24800	18	0.10	63	< 10	17	19	7.618

Activation Laboratories Ltd. Report: A08-3926

Quality Control																								
Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	31.3	3.1	1130	746	16	37	853	533	0.34	361	338	<1	1590	0.83	8	6	25.1	0.02	0.15	0.07	0.040	80	1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.8	0.5	6470	136	345	41	43	57	2.55	100	19	1	19	1.00	15	56	3.57	1.48	1.76	0.13	0.121	<10	7	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	88.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.7	4.2	76	964	<2	16	705	529	3.19	13	1380	1	<10	0.84	10	25	2.09	0.55	0.54	0.25	0.054	29	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	<0.5	65	1010	<2	24	98	123	6.88	211	916	<1	<10	0.17	15	82	5.44	0.98	0.44	0.13	0.032	<10	24	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2610				2170										6.13							
OREAS 13P Cert			2500				2280										7.58							
2474C Ong	0.6	<0.5	1490	316	<2	1560	2	27	5.43	<10	24	<1	<10	3.04	52	147	3.54	0.04	3.45	0.37	0.003	<10	3	<10
2474C Dup	0.6	<0.5	1490	316	<2	1540	<2	27	5.45	<10	24	<1	<10	3.03	52	147	3.52	0.04	3.42	0.36	0.002	<10	3	<10
24753 Ong	1.4	0.6	575	257	<2	647	27	53	2.97	<10	7	<1	<10	0.66	54	296	3.75	0.01	4.60	0.07	0.006	<10	2	<10
24753 Dup	1.5	0.7	594	264	<2	688	27	69	3.04	<10	6	<1	<10	0.67	54	306	3.84	0.01	4.61	0.07	0.006	<10	2	<10
24755 Ong	<0.2	0.5	42	701	<2	72	<2	99	2.51	<10	11	<1	<10	1.88	27	157	5.18	0.03	2.21	0.07	0.049	<10	7	<10
24755 Dup	<0.2	0.6	43	682	<2	74	<2	102	2.55	<10	11	<1	<10	1.91	27	156	5.30	0.03	2.27	0.07	0.050	<10	7	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	4	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	194		80	143	25	16	0.223
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	81		69	11	12	9	1.922
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77
GXR-2 Meas	98		60	< 10	11	12	0.037
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	32		178	< 10	7	7	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
24740 Orig	74	0.02	35	< 10	< 1	1	0.480
24740 Dup	73	0.02	35	< 10	< 1	1	0.486
24763 Orig	2	0.02	19	< 10	< 1	1	0.317
24763 Dup	2	0.02	19	< 10	< 1	1	0.308
24765 Orig	29	0.13	114	< 10	7	3	0.147
24765 Dup	29	0.14	115	< 10	7	3	0.146
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	0.002
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Method Blank Method Blank	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001



Date Submitted: 09-Jul-08
Invoice No.: A08-3910
Invoice Date: 22-Jul-08
Your Reference: DOSSIER 22769

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

22 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3910**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3910

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
29226	6.8	6.2	4130	130	<2	1090	156	59	5.37	<10	8	<1	<10	3.78	88	86	4.21	0.01	0.96	0.27	0.009	<10	2	<10
29227	7.8	5.9	4200	116	<2	1210	177	51	5.80	<10	7	<1	<10	4.06	120	100	4.96	<0.01	0.66	0.31	0.007	<10	2	<10
29228	2.0	2.9	1380	122	<2	529	201	33	5.67	<10	10	<1	<10	4.08	51	168	3.13	<0.01	0.82	0.46	0.006	<10	3	<10
29229	1.6	1.8	1870	99	<2	1300	149	39	4.41	<10	8	<1	<10	3.00	78	91	6.31	<0.01	0.67	0.36	0.006	<10	2	<10
29230	<0.2	<0.5	6	1*	<2	<1	<2	4	0.03	<10	8	<1	<10	0.04	<1	2	0.07	0.01	0.02	0.01	0.004	<10	<1	<10
29231	11.2	7.1	>10000	109	<2	2620	127	144	3.44	<10	8	<1	<10	1.73	90	85	16.1	<0.01	0.65	0.23	0.011	<10	2	<10
29232	1.8	2.3	1730	124	<2	1320	162	57	4.73	<10	12	<1	<10	3.38	107	87	6.96	<0.01	0.78	0.42	0.006	<10	3	<10
29233	1.7	1.8	1630	112	<2	1280	166	49	4.90	<10	11	<1	<10	3.28	105	93	6.40	<0.01	0.70	0.40	0.006	<10	3	<10
29234	1.0	1.6	856	81	<2	609	122	41	4.06	<10	9	<1	<10	3.03	50	67	3.21	<0.01	0.55	0.29	0.008	<10	3	<10
29235	2.4	1.6	2190	92	<2	1290	160	82	3.66	<10	12	<1	<10	2.78	67	62	6.29	0.02	0.61	0.24	0.008	<10	3	<10
29236	9.9	11.0	5710	293	<2	1470	266	593	3.68	<10	19	<1	<10	1.20	313	83	11.7	0.24	2.35	0.22	0.022	<10	5	14
29237	11.2	37.7	5950	580	<2	1950	264	1610	3.69	<10	15	<1	<10	1.67	620	135	17.4	0.13	2.27	0.19	0.019	<10	4	16
29238	15.3	12.8	9890	680	<2	1170	182	780	4.78	<10	24	<1	<10	1.67	116	412	12.7	0.23	3.20	0.11	0.008	<10	4	<10
29239	15.7	23.1	>10000	544	<2	3080	153	546	3.26	<10	19	<1	<10	0.94	257	103	20.9	0.28	2.08	0.09	0.024	<10	4	13
29240	0.7	<0.5	1600	285	<2	1540	<2	27	5.62	<10	18	<1	<10	2.65	51	134	3.26	0.03	3.17	0.34	0.003	<10	3	<10
29241	7.0	5.1	5690	657	<2	99	40	370	3.98	<10	84	<1	<10	0.86	30	36	8.06	0.69	3.19	0.07	0.066	<10	10	<10
29242	27.5	75.0	>10000	216	<2	7510	101	2250	1.36	<10	14	<1	<10	0.44	380	28	37.9	0.23	0.65	0.05	0.023	<10	3	23
29243	23.3	36.2	>10000	131	<2	7690	130	1050	0.95	<10	15	<1	<10	0.23	370	36	35.7	0.16	0.46	0.06	0.016	11	2	17
29244	38.2	48.3	>10000	182	<2	6780	184	1380	1.11	<10	16	<1	12	0.31	332	46	33.9	0.09	0.48	0.06	0.019	<10	1	18
29245	32.7	39.2	>10000	221	<2	7400	273	1130	1.24	16	17	<1	16	0.31	354	43	35.9	0.08	0.55	0.06	0.016	12	1	15
29269	0.4	1.0	310	98*	<2	114	<2	188	3.22	<10	244	<1	<10	0.48	21	67	6.08	0.60	2.55	0.08	0.067	<10	10	<10
29267	0.3	0.8	116	466	<2	79	<2	147	3.08	<10	340	<1	<10	0.46	18	55	5.23	0.63	2.33	0.09	0.062	<10	10	<10

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
29226	85	0.02	14	< 10	< 1	1	2.019
29227	103	0.01	16	< 10	< 1	1	2.517
29228	99	0.01	17	< 10	< 1	1	1.344
29229	74	< 0.01	13	< 10	< 1	2	3.944
29230	2	< 0.01	< 1	< 10	< 1	3	0.020
29231	42	0.01	18	< 10	< 1	4	8.880
29232	76	0.01	15	< 10	< 1	2	3.181
29233	78	0.01	16	< 10	< 1	2	3.057
29234	56	0.02	16	< 10	< 1	1	1.504
29235	40	0.02	24	< 10	< 1	2	3.204
29236	20	0.07	90	< 10	3	3	5.985
29237	15	0.04	66	< 10	3	4	6.733
29238	18	0.04	64	< 10	1	3	4.113
29239	13	0.06	74	< 10	3	6	7.746
29240	65	0.01	31	< 10	< 1	1	0.906
29241	15	0.09	67	< 10	8	4	1.218
29242	5	0.04	63	< 10	2	9	7.269
29243	5	0.03	66	< 10	1	9	6.330
29244	8	0.02	68	< 10	1	8	6.162
29245	9	0.02	71	< 10	1	9	4.494
29266	8	0.10	128	< 10	5	4	0.210
29267	7	0.11	120	< 10	6	4	0.124

Activation Laboratories Ltd. Report: A08-3910

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GXR-1 Meas	31.3	3.4	1140	788	15	36	841	538	0.34	363	235	<1	1490	0.79	6	6	25.4	0.02	0.14	0.06	0.040	88	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.9	< 0.5	6210	133	334	36	41	55	2.83	97	28	1	15	0.89	14	54	3.41	1.36	1.66	0.12	0.129	< 10	7	< 10
GXR-4 Cert	4.00	0.660	6020	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	20.3	4.3	76	966	<2	15	711	525	3.28	<10	1250	1	<10	0.77	8	23	2.03	0.49	0.50	0.22	0.057	26	4	< 10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	36.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.4	0.5	65	984	<2	24	94	116	6.83	233	874	<1	<10	0.16	13	79	5.21	0.84	0.39	0.11	0.034	< 10	22	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2630																					
OREAS 13P Cert			2500				2280																	
29225 Ong	8.5	6.1	4030	125	<2	1070	155	56	5.16	<10	7	<1	<10	3.69	89	84	4.14	0.01	0.97	0.26	0.009	< 10	2	< 10
29225 Dup	9.1	6.4	4230	134	<2	1100	157	51	5.68	<10	8	<1	<10	3.88	87	87	4.26	0.01	1.01	0.26	0.010	< 10	2	< 10
29240 Ong	0.7	< 0.5	1600	281	<2	1610	3	28	5.61	<10	17	<1	<10	2.68	51	131	3.21	0.03	3.14	0.33	0.003	< 10	3	< 10
29240 Dup	0.7	< 0.5	1600	289	<2	1610	<2	27	5.73	<10	19	<1	<10	2.71	52	138	3.36	0.03	3.20	0.36	0.003	< 10	3	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	158		78	139	23	14	0.219
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	74		84	13	12	9	1.898
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	91		47	< 10	11	12	0.036
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	29		171	< 10	6	12	0.017
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
29225 Orig	94	0.02	14	< 10	< 1	1	1.989
29225 Dup	97	0.02	14	< 10	< 1	1	2.048
29240 Orig	63	0.01	31	< 10	< 1	1	0.602
29240 Dup	68	0.01	32	< 10	< 1	1	0.611
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 09-Jul-08
Invoice No.: A08-3917
Invoice Date: 24-Jul-08
Your Reference: DOSSIER 22770

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

70 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3917**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3917

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
24372	5.7	1.8	2020	138	<2	505	65	33	5.90	<10	31	<1	<10	4.18	36	236	2.89	0.06	1.00	0.67	0.008	<10	4	<10	
24373	11.4	2.6	4800	133	<2	2510	59	42	4.73	<10	32	<1	12	3.13	175	246	6.74	0.12	1.04	0.64	0.008	<10	4	<10	
24374	9.9	3.7	2810	128	<2	367	77	49	5.91	<10	27	<1	<10	4.25	21	221	2.41	0.05	0.83	0.74	0.006	<10	4	<10	
24375	5.4	1.8	1840	114	<2	588	72	36	6.05	<10	41	<1	<10	4.35	32	190	2.87	0.08	0.80	0.70	0.009	<10	4	<10	
24376	3.3	1.3	1120	153	<2	234	79	32	6.61	<10	27	<1	<10	4.87	21	162	1.98	0.05	1.04	0.76	0.006	<10	5	<10	
24377	2.4	1.2	761	149	<2	263	68	22	6.20	<10	19	<1	<10	4.52	19	131	1.94	0.03	0.24	0.54	0.005	<10	4	<10	
24378	2.0	1.1	517	164	<2	287	66	19	6.08	<10	18	<1	<10	4.61	22	136	1.96	0.03	0.91	0.64	0.007	<10	5	<10	
24379	2.1	1.1	587	298	<2	198	48	34	5.14	<10	16	<1	<10	4.09	23	166	2.50	0.03	1.46	0.54	0.005	<10	6	<10	
24380	<0.2	<0.5	8	216	<2	3	12	10	0.05	<10	57	<1	<10	11.1	<1	20	0.06	<0.01	7.32	0.03	0.004	<10	<1	<10	
24381	2.6	0.7	1210	202	<2	493	61	30	6.20	<10	21	<1	<10	4.46	48	119	3.20	0.03	1.02	0.66	0.006	5	<10		
24382	1.3	0.9	590	205	<2	379	64	28	8.46	<10	27	<1	<10	4.82	31	124	2.70	0.05	1.14	0.66	0.007	<10	5	<10	
24383	4.2	1.7	2060	198	<2	951	56	38	5.61	<10	33	<1	<10	4.30	73	111	4.85	0.06	1.13	0.61	0.008	<10	6	<10	
24384	5.1	2.5	1880	212	<2	612	58	41	5.92	<10	33	<1	<10	4.46	39	127	3.84	0.06	1.24	0.60	0.007	<10	6	<10	
24385	5.7	2.4	1980	206	<2	931	64	41	5.72	<10	24	<1	<10	4.65	59	117	4.75	0.03	1.11	0.51	0.008	<10	6	<10	
24386	7.9	3.3	2980	223	<2	769	65	59	5.48	<10	28	<1	<10	4.47	57	139	4.60	0.04	1.26	0.51	0.008	<10	7	<10	
24387	4.5	2.1	1700	184	<2	746	66	39	5.31	<10	18	<1	<10	4.31	51	122	4.07	0.03	1.04	0.54	0.008	<10	5	<10	
24388	3.0	1.1	780	202	<2	302	78	31	6.24	<10	22	<1	<10	4.86	32	164	2.80	0.06	1.41	0.68	0.009	<10	7	<10	
24389	6.3	3.8	2940	203	<2	1060	80	62	5.66	<10	22	<1	<10	4.08	73	203	5.70	0.05	1.41	0.61	0.010	<10	6	<10	
24390	8.8	0.5	1550	331	<2	1610	2	28	5.97	<10	23	<1	<10	3.18	54	150	3.73	0.04	3.54	0.34	0.003	<10	3	<10	
24391	4.5	1.3	1260	190	<2	699	71	46	5.31	<10	24	<1	<10	3.71	59	161	4.44	0.05	1.75	0.51	0.007	<10	5	<10	
24392	8.3	2.2	2150	294	<2	529	61	79	5.49	<10	13	<2	<10	3.25	60	164	7.88	0.03	5.92	0.20	0.007	<10	8	<10	
24393	0.3	0.5	175	319	<2	223	<2	38	4.26	<10	16	<1	<10	3.06	29	225	3.36	0.05	3.47	0.11	0.010	<10	3	<10	
24394	0.5	0.5	176	357	<2	81	4	26	2.90	<10	30	<1	<10	2.65	21	106	3.05	0.06	1.64	0.40	0.028	<10	9	<10	
24395	<0.02	0.5	112	322	<2	68	2	26	4.13	<10	22	<1	<10	3.32	19	76	2.74	0.04	1.22	0.33	0.031	<10	8	<10	
24396	<0.2	<0.5	190	274	<2	73	<2	22	4.23	<10	20	<1	<10	3.38	22	67	2.46	0.03	1.10	0.45	0.030	<10	7	<10	
24397	0.2	<0.5	216	220	<2	97	<2	20	2.68	<10	35	<1	<10	1.99	25	75	2.65	0.07	1.10	0.30	0.030	<10	5	<10	
24398	<0.2	<0.5	283	237	<2	91	<2	22	3.88	<10	26	<1	<10	3.08	26	118	2.50	0.05	1.12	0.41	0.033	<10	5	<10	
24399	<0.2	<0.5	65	91	<2	64	2	14	5.62	<10	15	<1	<10	4.10	9	166	0.99	0.01	0.63	0.73	0.013	<10	3	<10	
24400	1.0	2.9	8920	297	<2	>10000	4	44	0.63	<10	9	<1	<10	0.39	608	30	32.8	0.11	0.15	0.09	0.048	<10	4	<10	
24401	<0.2	<0.5	152	292	<2	284	<2	20	6.19	<10	13	14	<1	<10	4.20	43	206	2.99	0.02	2.13	0.47	0.005	<10	4	<10
24402	8.2	8.3	5090	213	<2	2070	76	300	2.60	<10	18	<1	<10	1.33	78	62	12.6	0.26	1.36	0.21	0.042	<10	6	<10	
24403	26.3	30.9	>10000	417	<2	2470	211	1300	2.63	<10	17	<1	15	0.43	496	182	21.2	0.09	1.93	0.04	0.015	<10	4	<10	
24404	15.5	8.8	7870	436	<2	975	299	380	3.03	<10	16	<1	56	1.32	248	126	12.8	0.09	1.74	0.17	0.016	<10	5	<10	
24405	14.2	5.5	7270	199	<2	3300	178	286	2.11	<10	10	<1	<10	1.14	489	54	19.5	0.13	0.70	0.13	0.017	<10	3	<10	
24406	15.1	15.5	7830	437	<2	1940	168	897	3.01	<10	54	<1	17	0.52	280	47	15.3	0.32	2.13	0.11	0.037	<10	6	13	
24407	19.0	10.8	8580	242	<2	3710	279	518	1.41	<10	7	<1	32	0.31	239	64	16.9	0.14	0.95	0.06	0.012	<10	2	<10	
24408	15.1	8.1	6150	189	<2	5860	309	428	2.19	<10	15	<1	53	0.93	185	103	25.9	0.10	0.71	0.21	0.008	<10	2	<10	
24409	34.9	25.8	>10000	516	<2	4260	206	1220	2.04	<10	14	<1	46	0.27	158	81	25.6	0.07	1.85	0.05	0.011	<10	4	10	
24470	0.7	0.5	1660	302	<2	1560	<2	29	5.69	<10	20	<1	<10	2.82	53	134	3.49	0.03	3.21	0.31	0.002	<10	3	<10	
24523	0.5	0.9	375	327	<2	87	14	65	2.75	<10	53	<1	<10	2.03	24	80	5.11	0.09	1.70	0.10	0.19	0.052	<10	7	<10
24524	1.4	2.4	815	443	<2	400	30	93	2.82	<10	76	<1	<10	2.37	47	173	6.26	0.08	1.45	0.16	0.044	<10	9	<10	
24525	4.0	5.5	2580	236	<2	1230	105	191	2.35	<10	10	<1	<10	0.96	91	288	4.77	0.02	2.45	0.06	0.007	<10	1	<10	
24526	4.8	4.7	2410	222	<2	1190	224	162	3.56	<10	9	<1	<10	2.42	121	165	5.34	0.01	1.23	0.32	0.007	<10	4	<10	
24527	8.0	5.3	3300	281	<2	1220	452	299	4.03	<10	12	<1	<10	2.36	114	168	6.69	0.03	1.76	0.24	0.016	<10	2	<10	
24528	9.8	9.0	4650	317	<2	2080	421	875	3.85	<10	24	<1	11	2.05	114	229	12.4	0.09	1.91	0.16	0.008	<10	2	<10	
24529	10.3	4.3	5070	307	<2	673	339	409	4.75	<10	32	<1	12	2.82	37	327	6.66	0.14	1.91	0.20	0.008	<10	3	<10	
24630	0.3	<0.5	113	143	<2	34	16	23	0.17	<10	312	<1	<10	7.79	2	64	0.30	0.01	4.37	0.06	0.009	<10	<1	<10	
24531	13.9	12.4	>10000	850	<2	675	111	857	4.09	<10	8	<1	<10	1.59	74	311	12.9	0.02	3.60	0.05	0.012	<10	3	<10	
24532	8.1	11.6	6790	873	<2	536	57	624	3.84	<10	13	<1	<10	2.23	82	238	12.2	0.02	3.64	0.07	0.021	<10	7	<10	
24562	1.0	0.8	667	77	<2	625	6	56	2.07	<10	51	<1	<10	0.81	142	134	5.60	0.18	1.16	0.24	0.004	<10	3	<10	
24563	0.6	0.8	318	115	<2	105	3	68	2.48	<10	72	<1	<10	0.53	26	139	4.31	0.19	2.02	0.15	0.005	<10	5	<10	
24564	0.4	0.6	267	62	<2	335	3	29	2.24	<10	39	<1	<10	1.13	42	141	3.61	0.09	0.83	0.30	0.006	<10	2	<10	

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24565	< 0.2	< 0.5	35	39	< 2	59	3	15	2.37	< 10	17	< 1	< 10	1.37	11	120	1.94	0.03	0.57	0.33	0.006	< 10	1	< 10
24566	0.3	< 0.5	86	33	< 2	134	< 2	17	1.79	< 10	58	< 1	< 10	0.80	16	114	2.30	0.14	0.78	0.22	0.006	< 10	2	< 10
24567	0.8	0.8	285	51	< 2	105	3	28	1.84	< 10	38	< 1	< 10	0.52	19	133	3.81	0.09	1.12	0.14	0.008	< 10	3	< 10
24568	1.2	0.8	412	38	< 2	99	< 2	22	1.17	< 10	84	< 1	< 10	0.32	22	128	3.01	0.17	0.81	0.12	0.009	< 10	3	< 10
24569	12.2	2.4	4270	107	< 2	1530	2	43	1.86	< 10	21	< 1	< 10	0.24	152	80	7.33	0.04	1.41	0.08	0.011	< 10	3	< 10
24570	0.7	< 0.5	1530	284	< 2	1460	< 2	24	5.48	< 10	19	< 1	< 10	2.68	50	127	3.25	0.03	3.11	0.30	0.003	< 10	3	< 10
24571	1.8	0.6	340	159	< 2	65	2	24	2.60	< 10	36	< 1	< 10	0.25	11	42	2.56	0.27	2.18	0.07	0.009	< 10	4	< 10
24582	1.3	0.8	262	217	< 2	30	2	30	3.32	< 10	75	< 1	< 10	0.40	12	88	3.23	0.32	2.95	0.01	0.006	< 10	6	< 10
24583	3.1	0.9	659	260	< 2	105	6	55	4.71	< 10	28	< 1	< 10	1.79	20	63	3.94	0.16	3.53	0.07	0.024	< 10	9	< 10
24584	2.9	0.9	740	318	< 2	37	6	38	4.27	< 10	37	< 1	< 10	1.79	13	66	2.88	0.08	2.43	0.14	0.006	< 10	6	< 10
24585	5.1	1.5	1340	384	< 2	77	20	58	2.69	< 10	17	< 1	< 10	1.53	22	43	3.01	0.07	2.27	0.07	0.017	< 10	8	< 10
24586	< 0.2	< 0.5	31	188	< 2	7	< 2	27	2.62	< 10	109	< 1	< 10	0.26	4	57	2.34	0.29	2.55	0.06	0.006	< 10	3	< 10
24587	< 0.2	0.6	45	255	< 2	10	< 2	33	3.42	< 10	74	< 1	< 10	0.13	6	27	3.51	0.27	3.54	0.03	0.007	< 10	5	< 10
24588	< 0.2	< 0.5	112	289	< 2	5	3	43	3.17	< 10	110	< 1	< 10	0.14	6	53	3.03	0.43	2.88	0.05	0.012	< 10	5	< 10
24589	3.1	1.2	1000	269	< 2	25	4	59	2.82	< 10	33	< 1	< 10	0.61	13	43	3.66	0.14	2.00	0.12	0.032	< 10	4	< 10
24590	0.6	< 0.5	1860	290	< 2	1450	< 2	26	5.25	< 10	19	< 1	< 10	2.73	50	129	3.31	0.03	3.15	0.30	0.002	< 10	3	< 10
24591	< 0.2	< 0.5	73	102	< 2	65	7	14	6.33	< 10	31	< 1	< 10	4.63	10	215	1.20	0.13	0.97	0.47	0.008	< 10	3	< 10
26705	6.8	5.4	3940	210	< 2	1110	82	70	3.73	< 10	13	< 1	< 10	2.62	103	111	4.99	0.04	1.67	0.17	0.011	< 10	2	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24372	89	0.03	30	< 10	1	2	0.999
24373	74	0.04	32	< 10	1	4	4.507
24374	93	0.02	23	< 10	1	2	0.869
24375	83	0.03	23	< 10	1	2	1.025
24376	105	0.03	33	< 10	1	1	0.448
24377	101	0.03	29	< 10	1	< 1	0.487
24378	111	0.03	26	< 10	1	< 1	0.500
24379	82	0.05	43	< 10	2	1	0.386
24380	105	< 0.01	3	< 10	< 1	< 1	0.102
24381	89	0.03	33	< 10	1	2	1.151
24382	108	0.03	32	< 10	1	1	0.904
24383	106	0.04	41	< 10	1	2	1.956
24384	108	0.04	38	< 10	1	2	1.278
24385	114	0.03	38	< 10	1	2	1.904
24386	109	0.04	41	< 10	1	2	1.624
24387	114	0.03	34	< 10	1	2	1.488
24388	139	0.04	43	< 10	2	1	0.574
24389	150	0.04	46	< 10	2	2	2.273
24390	78	0.02	37	< 10	< 1	1	0.498
24391	152	0.03	43	< 10	2	2	1.544
24392	118	0.02	59	< 10	4	2	1.981
24393	26	0.08	35	< 10	2	1	0.084
24394	38	0.11	77	< 10	5	2	0.205
24395	58	0.11	71	< 10	5	1	0.203
24396	52	0.09	59	< 10	4	1	0.324
24397	29	0.09	49	< 10	3	1	0.423
24398	49	0.07	46	516	3	1	0.489
24399	67	0.03	23	< 10	< 1	< 1	0.076
24400	17	0.10	63	< 10	18	18	7.578
24401	67	0.03	27	< 10	1	1	0.449
24402	23	0.10	73	< 10	4	4	4.608
24483	5	0.09	112	< 10	2	6	7.403
24454	15	0.10	106	< 10	4	4	6.020
24465	18	0.06	67	< 10	3	6	8.527
24466	21	0.09	125	< 10	4	6	2.835
24467	12	0.03	62	< 10	2	6	6.955
24468	19	0.02	71	< 10	< 1	7	7.427
24469	12	0.04	72	< 10	3	6	6.064
24470	70	0.02	34	< 10	< 1	1	0.499
24523	34	0.11	151	< 10	6	2	0.376
24524	26	0.15	169	< 10	7	2	0.918
24525	12	0.02	18	< 10	< 1	2	1.734
24526	43	0.02	23	< 10	< 1	2	2.840
24527	45	0.03	26	< 10	< 1	2	2.637
24528	47	0.03	38	< 10	< 1	3	5.258
24529	66	0.04	51	< 10	< 1	2	2.193
24630	88	< 0.01	2	< 10	< 1	< 1	0.163
24631	13	0.03	56	< 10	1	4	3.481
24632	15	0.08	93	< 10	3	4	3.193
24662	23	0.05	178	< 10	< 1	2	1.685
24663	21	0.07	191	< 10	< 1	1	0.289
24664	34	0.06	189	< 10	< 1	1	0.722

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24565	43	0.03	166	< 10	< 1	< 1	0.076
24566	26	0.05	171	< 10	< 1	< 1	0.234
24567	18	0.05	219	< 10	< 1	1	0.198
24568	10	0.05	192	< 10	< 1	< 1	0.208
24569	14	0.04	99	< 10	1	2	3.216
24570	85	0.01	32	< 10	< 1	1	0.467
24571	12	0.04	66	< 10	3	2	0.151
24582	18	0.03	66	< 10	3	2	0.063
24583	23	0.04	94	< 10	2	1	0.125
24584	29	0.02	36	< 10	2	2	0.108
24585	20	0.05	60	< 10	2	1	0.251
24586	12	0.03	4	< 10	2	2	0.010
24587	6	0.03	14	< 10	2	2	0.012
24588	8	0.06	17	< 10	2	2	0.021
24589	18	0.05	20	< 10	2	2	0.366
24590	64	0.02	33	< 10	< 1	1	0.464
24591	100	0.04	22	< 10	< 1	< 1	0.061
26705	54	0.03	21	< 10	< 1	2	2.146

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	29.0	3.2	1160	759	15	31	888	541	0.34	343	172	<1	1420	0.77	8	6	25.3	0.02	0.13	0.06	0.040	77	1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.7	0.8	6560	140	335	36	42	70	2.87	100	38	1	21	0.96	15	54	3.45	1.40	1.67	0.13	0.121	<10	7	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.8	4.5	78	1010	<2	15	710	545	3.60	<10	1290	1	<10	0.82	10	24	2.04	0.53	0.53	0.29	0.051	22	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	1.2	66	1030	<2	22	90	120	7.25	216	895	<1	<10	0.16	15	79	6.06	0.93	0.41	0.16	0.031	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2560			2030											5.57							
OREAS 13P Cert			2500			2260											7.58							
24382 Ong	1.3	0.7	618	213	<2	387	65	27	6.71	<10	27	<1	<10	4.92	33	127	2.75	0.05	1.17	0.68	0.007	<10	5	<10
24382 Dup	1.2	1.1	562	198	<2	370	63	25	6.21	<10	27	<1	<10	4.73	29	122	2.66	0.05	1.11	0.64	0.007	<10	5	<10
24366 Ong	<0.2	<0.5	190	258	<2	70	<2	19	3.65	<10	19	<1	<10	3.22	21	64	2.34	0.03	1.04	0.42	0.029	<10	6	<10
24366 Dup	<0.2	<0.5	180	290	<2	75	2	25	4.61	<10	21	<1	<10	3.64	23	71	2.62	0.03	1.18	0.48	0.030	<10	7	<10
24531 Ong	13.8	12.7	>10000	847	<2	669	112	851	4.08	<10	8	<1	<10	1.58	73	306	12.8	0.02	3.58	0.05	0.012	<10	3	<10
24531 Dup	14.0	12.2	>10000	854	<2	660	111	853	4.13	<10	8	<1	<10	1.60	75	315	13.0	0.02	3.62	0.05	0.011	<10	3	<10
24564 Ong	2.9	0.6	715	319	<2	37	6	39	4.20	<10	37	<1	<10	1.79	13	65	2.89	0.08	2.44	0.13	0.004	<10	5	<10
24564 Dup	2.8	0.9	765	318	<2	36	6	38	4.34	<10	37	<1	<10	1.79	13	65	2.87	0.08	2.43	0.14	0.005	<10	5	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	8	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	188		79	127	23	14	0.199
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	79		87	13	12	10	1.853
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	98		48	< 10	11	9	0.035
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	32		177	< 10	7	10	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
24382 Orig	107	0.03	33	< 10	1	1	0.823
24382 Dup	104	0.03	31	< 10	1	1	0.786
24366 Orig	50	0.09	96	< 10	4	1	0.311
24366 Dup	53	0.10	83	< 10	4	1	0.338
24531 Orig	13	0.03	56	< 10	1	4	3.497
24531 Dup	13	0.03	57	< 10	1	4	3.465
24564 Orig	29	0.02	38	< 10	2	2	0.109
24564 Dup	30	0.02	38	< 10	2	2	0.108
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 09-Jul-08
Invoice No.: A08-3923
Invoice Date: 07-Aug-08
Your Reference: DOSSIER 22771

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

50 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3923**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3923

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.01	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
27278	1.7	< 0.5	314	136	5	46	3	48	2.11	< 10	72	< 1	< 10	0.39	17	93	2.69	0.41	2.35	0.09	0.020	< 10	4	< 10	
27278	0.8	< 0.5	596	114	< 2	39	< 2	31	1.63	< 10	52	< 1	< 10	0.35	13	143	2.32	0.26	1.34	0.12	0.022	< 10	3	< 10	
27280	< 0.2	< 0.5	21	184	< 2	6	4	19	0.15	< 10	84	< 1	< 10	10.1	< 1	38	0.18	0.02	8.59	0.04	0.004	< 10	< 1	< 10	
27281	1.1	< 0.5	927	110	< 2	66	< 2	29	4.15	< 10	43	< 1	< 10	2.50	15	163	2.43	0.19	1.08	0.30	0.016	< 10	3	< 10	
27282	< 0.2	< 0.5	92	98	< 2	28	3	9	6.70	< 10	23	< 1	< 10	5.21	6	111	0.76	0.03	0.63	0.56	0.008	< 10	3	< 10	
27283	< 0.2	< 0.5	92	89	< 2	46	4	10	5.84	< 10	29	< 1	< 10	4.52	7	175	0.85	0.07	0.70	0.53	0.017	< 10	3	< 10	
27284	0.5	< 0.5	243	100	< 2	116	3	12	5.34	< 10	34	< 1	< 10	4.12	13	232	1.10	0.06	0.60	0.57	0.007	< 10	3	< 10	
27285	0.4	< 0.5	339	99	< 2	168	3	9	6.08	< 10	19	< 1	< 10	4.60	14	118	1.16	0.06	0.84	0.68	0.008	< 10	3	< 10	
27286	0.8	< 0.5	646	103	< 2	356	3	15	6.97	< 10	23	< 1	< 10	5.05	26	105	1.81	0.15	1.14	0.48	0.011	< 10	4	< 10	
27287	0.7	< 0.5	376	262	< 2	36	< 2	39	3.40	< 10	781	< 1	< 10	0.11	14	94	3.21	0.82	2.00	0.14	0.099	< 10	7	< 10	
27348	4.0	3.7	1650	132	< 2	390	172	79	8.28	< 10	15	< 1	< 10	4.82	30	167	2.28	0.02	1.08	0.46	0.010	< 10	4	< 10	
27348	2.8	3.0	1440	78	< 2	221	191	54	6.46	< 10	15	< 1	< 10	4.71	17	130	1.46	< 0.01	0.65	0.56	0.011	< 10	4	< 10	
27350	1.1	< 0.5	8480	316	< 2	> 10000	4	43	0.65	< 10	6	< 1	< 10	0.43	562	33	34.1	0.12	0.19	0.09	0.046	11	4	< 10	
27351	1.4	1.3	974	88	< 2	821	141	66	4.83	< 10	13	< 1	< 10	3.67	81	94	4.47	0.01	0.60	0.55	0.017	< 10	4	< 10	
27352	2.3	4.2	1590	78	< 2	572	167	84	5.21	< 10	14	< 1	< 10	3.92	41	95	3.25	< 0.01	0.60	0.56	0.016	< 10	4	< 10	
27353	4.3	1.0	3880	77	< 2	2740	148	161	4.70	< 10	16	< 1	< 10	2.85	192	101	13.3	0.01	0.71	0.61	0.41	0.013	< 10	4	< 10
27354	7.1	2.2	5670	75	< 2	2680	143	214	4.44	< 10	16	< 1	< 10	2.64	177	107	13.2	0.02	0.45	0.39	0.013	< 10	4	< 10	
27355	7.9	1.6	4090	120	< 2	2460	122	169	3.67	< 10	13	< 1	< 10	2.29	146	131	13.4	0.16	0.77	0.31	0.011	< 10	4	< 10	
27355	8.9	4.6	4940	120	< 2	2950	158	311	3.79	< 10	14	< 1	< 10	1.81	158	85	18.3	0.28	0.87	0.26	0.018	< 10	2	< 10	
27357	27.1	26.2	> 10000	120	< 2	5340	85	657	1.62	< 10	6	< 1	< 10	0.51	244	32	31.6	0.36	0.82	0.12	0.016	< 10	3	< 10	
27358	31.7	21.7	> 10000	190	< 2	2200	138	912	2.02	< 10	5	< 1	< 10	0.31	454	57	17.8	0.48	1.44	0.07	0.027	< 10	5	< 10	
27359	1.0	1.4	1100	556	2	68	54	345	3.25	< 10	121	1	< 10	0.37	15	56	5.82	0.63	2.54	0.08	0.046	< 10	9	< 10	
27360	1.7	1.0	999	140	< 2	118	12	57	0.11	< 10	96	< 1	< 10	7.31	18	31	0.96	0.03	4.62	0.03	0.003	< 10	< 1	< 10	
27361	0.3	< 0.5	226	642	3	38	31	179	3.66	< 10	152	< 1	< 10	0.30	12	120	6.10	0.75	2.60	0.09	0.046	< 10	8	< 10	
27362	12.3	16.5	5340	667	< 2	487	285	810	2.93	< 10	26	< 1	< 10	0.59	115	70	8.96	0.42	2.42	0.07	0.021	< 10	5	24	
27363	27.5	74.2	> 10000	469	< 2	2680	248	2020	2.46	< 10	9	< 1	13	0.82	634	63	26.4	0.16	1.44	0.06	0.018	< 10	5	33	
27364	7.0	5.9	2210	328	< 2	2880	167	347	1.88	< 10	19	< 1	< 10	0.33	47	100	16.9	0.21	1.44	0.05	0.010	< 10	5	12	
27365	0.4	1.2	396	526	< 2	56	39	136	2.79	< 10	155	< 1	< 10	0.52	13	65	4.76	0.45	2.19	0.07	0.043	< 10	7	< 10	
27366	< 0.2	< 0.5	41	716	2	21	9	103	3.75	< 10	125	< 1	< 10	0.72	15	61	6.87	0.80	3.25	0.07	0.078	< 10	12	< 10	
27367	< 0.2	< 0.5	66	677	< 2	26	15	106	3.25	< 10	79	< 1	< 10	1.85	18	56	5.27	0.32	3.04	0.06	0.063	< 10	13	< 10	
30116	2.3	0.7	1170	229	< 2	441	20	42	5.21	< 10	39	< 1	< 10	3.80	32	178	3.20	0.15	1.23	0.40	0.019	< 10	6	< 10	
30120	0.6	< 0.5	1520	317	< 2	1590	< 2	28	6.02	< 10	23	< 1	< 10	3.01	51	146	3.58	0.04	3.44	0.37	0.003	< 10	3	< 10	
30121	3.3	1.0	1820	100	< 2	769	23	32	4.75	< 10	19	< 1	< 10	3.69	51	191	2.52	0.05	0.75	0.45	0.008	< 10	4	< 10	
30122	2.0	< 0.5	1290	79	< 2	1020	32	21	6.39	< 10	17	< 1	< 10	4.48	53	112	2.94	0.02	0.51	0.59	0.018	< 10	3	< 10	
30123	4.1	< 0.5	2560	117	< 2	1370	30	33	5.54	< 10	16	< 1	< 10	4.03	79	185	4.11	0.03	0.88	0.53	0.096	< 10	5	< 10	
30124	3.4	0.9	2220	181	< 2	1020	34	33	5.41	< 10	10	< 1	< 10	4.45	60	159	3.73	0.01	0.90	0.40	0.005	< 10	5	< 10	
30125	5.3	2.0	2350	210	< 2	828	38	43	5.62	< 10	10	< 1	< 10	4.49	44	124	2.91	0.01	0.93	0.42	0.011	< 10	6	< 10	
30126	4.8	2.4	2040	202	< 2	1270	34	43	5.67	< 10	9	< 1	< 10	4.60	57	122	3.15	0.02	0.85	0.25	0.016	< 10	4	< 10	
30127	7.9	2.2	4230	162	< 2	1460	28	48	4.68	< 10	12	< 1	< 10	3.76	128	161	3.71	0.02	0.83	0.46	0.023	< 10	5	< 10	
30128	8.8	3.0	4360	78	< 2	1770	35	53	5.53	< 10	21	< 1	< 10	4.09	88	96	3.21	0.02	0.49	0.64	0.029	< 10	2	< 10	
30146	1.8	0.6	1640	88	< 2	1930	46	80	5.38	< 10	19	< 1	< 10	3.44	150	227	6.96	0.21	0.85	0.46	0.003	< 10	5	< 10	
30150	1.2	< 0.5	8390	332	< 2	> 10000	2	43	0.67	< 10	4	< 1	< 10	0.42	561	34	34.6	0.12	0.19	0.09	0.046	12	4	< 10	
30151	1.7	0.9	1730	59	< 2	1610	53	80	6.23	< 10	25	< 1	< 10	3.95	140	283	8.50	0.27	0.83	0.53	0.007	< 10	3	< 10	
30152	2.3	0.9	2270	63	< 2	2190	53	81	5.45	< 10	20	< 1	< 10	3.07	139	279	10.1	0.21	0.83	0.46	0.007	< 10	3	< 10	
30153	2.1	0.5	1580	87	< 2	2040	49	94	5.15	< 10	18	< 1	< 10	2.75	89	278	9.15	0.49	1.28	0.48	0.008	< 10	2	< 10	
30154	3.6	0.7	3000	185	< 2	1780	40	134	4.10	< 10	10	< 1	< 10	1.82	293	230	11.6	0.51	1.94	0.41	0.008	< 10	4	< 10	
30156	1.0	0.7	406	227	< 2	82	36	121	3.62	< 10	181	< 1	< 10	1.08	19	64	4.10	0.66	2.38	0.33	0.013	< 10	7	< 10	
30158	0.5	< 0.5	250	248	2	66	62	85	5.24	< 10	137	< 1	< 10	1.99	18	106	4.16	0.47	2.05	0.43	0.022	< 10	8	< 10	
30157	6.5	3.5	1260	184	< 2	162	65	109	6.27	< 10	99	< 1	< 10	3.31	23	131	4.77	0.24	1.32	0.36	0.030	< 10	3	< 10	
30158	2.7	1.0	904	176	< 2	148	57	105	5.60	< 10	94	< 1	< 10	2.63	31	131	5.41	0.29	1.42	0.33	0.037	< 10	4	< 10	

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27278	17	0.10	34	< 10	5	7	0.152
27279	8	0.09	26	< 10	5	6	0.376
27280	78	< 0.01	2	< 10	< 1	< 1	0.102
27281	39	0.07	32	< 10	4	3	0.585
27282	93	0.04	19	< 10	1	< 1	0.061
27283	90	0.03	21	< 10	1	< 1	0.059
27284	98	0.03	21	< 10	< 1	< 1	0.135
27285	136	0.03	18	< 10	< 1	< 1	0.177
27286	128	0.05	25	< 10	1	< 1	0.393
27287	6	0.12	27	< 10	2	2	0.113
27348	108	0.03	24	< 10	1	1	0.712
27349	109	0.02	19	< 10	1	< 1	0.443
27350	17	0.11	64	< 10	17	19	9.471
27351	82	0.03	26	< 10	2	2	1.979
27352	81	0.03	25	< 10	1	1	1.476
27353	83	0.04	32	< 10	1	4	6.497
27354	58	0.03	36	< 10	1	4	5.984
27355	43	0.04	70	< 10	1	4	6.766
27356	28	0.06	129	< 10	2	4	6.561
27357	9	0.07	123	< 10	1	6	7.490
27358	6	0.10	48	< 10	5	6	7.750
27359	10	0.13	51	< 10	10	5	0.409
27360	67	< 0.01	2	< 10	< 1	< 1	0.534
27361	8	0.11	49	< 10	8	6	0.296
27362	7	0.11	27	< 10	12	9	2.727
27363	8	0.09	81	< 10	5	6	9.941
27364	4	0.10	99	< 10	9	10	5.465
27365	13	0.13	14	< 10	15	6	0.224
27366	9	0.22	77	< 10	15	5	0.075
27367	14	0.18	117	< 10	14	4	0.088
30119	76	0.06	66	< 10	4	2	0.589
30120	73	0.02	36	< 10	< 1	1	0.499
30121	75	0.02	19	< 10	1	2	1.035
30122	93	0.03	19	< 10	2	2	1.330
30123	85	0.02	21	< 10	2	3	1.790
30124	87	0.02	23	< 10	1	2	1.542
30125	94	0.03	26	< 10	1	1	1.052
30126	87	0.03	22	< 10	1	1	1.277
30127	74	0.02	16	< 10	4	4	1.786
30128	88	0.01	9	< 10	4	3	1.883
30149	85	0.04	90	< 10	< 1	3	3.608
30150	15	0.11	99	< 10	17	19	9.375
30151	85	0.04	56	< 10	1	3	3.101
30152	52	0.04	44	< 10	2	4	3.904
30153	46	0.06	61	< 10	1	3	3.534
30154	34	0.07	45	< 10	2	5	6.088
30166	24	0.10	64	< 10	3	2	0.393
30188	47	0.11	93	< 10	4	2	0.278
30167	53	0.12	137	< 10	3	3	0.732
30168	40	0.11	186	< 10	3	3	0.795

Activation Laboratories Ltd. Report: A08-3923

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	30.3	3.2	1110	740	15	36	629	526	0.34	349	204	<1	1480	0.81	7	6	25.4	0.02	0.14	0.06	0.036	79	1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.5	0.7	5910	125	318	36	41	54	2.74	94	33	1	26	0.89	15	50	3.31	1.33	1.60	0.11	0.111	<10	6	<10
GXR-4 Cert	4.00	0.860	6020	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	20.2	4.1	79	978	<2	15	715	538	3.50	13	1370	1	<10	0.83	10	24	2.10	0.53	0.53	0.27	0.054	28	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.9	66	967	<2	23	94	118	7.14	234	902	<1	<10	0.16	14	77	5.27	0.89	0.41	0.13	0.031	<10	23	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2630			2260											6.19							
OREAS 13P Cert			2500			2280											7.58							
27355 Ong	7.8	1.5	4490	121	<2	2490	121	158	3.58	<10	13	<1	<10	2.30	146	130	13.4	0.16	0.77	0.31	0.011	<10	4	<10
27355 Dup	7.9	1.4	4700	120	<2	2420	123	170	3.87	<10	12	<1	<10	2.27	145	131	13.5	0.16	0.77	0.31	0.011	<10	4	<10
30120 Ong	0.6	<0.5	1520	317	<2	1580	<2	28	6.03	<10	22	<1	<10	3.01	51	146	3.66	0.04	3.44	0.37	0.003	<10	3	<10
30120 Dup	0.8	<0.5	1520	317	<2	1600	<2	28	6.00	<10	24	<1	<10	3.01	51	146	3.60	0.04	3.44	0.37	0.003	<10	3	<10
30153 Ong	2.1	0.5	1610	68	<2	2060	50	95	5.22	<10	17	<1	<10	2.77	52	281	5.25	0.50	1.25	0.48	0.008	<10	2	<10
30153 Dup	2.1	0.5	1560	66	<2	2020	49	93	5.05	<10	19	<1	<10	2.73	87	275	5.06	0.49	1.27	0.47	0.008	<10	2	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	162		77	133	24	14	0.213
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	71		62	13	11	9	1.768
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77
GXR-2 Meas	96		49	< 10	11	13	0.036
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	31		174	< 10	7	13	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
27355 Orig	44	0.04	70	< 10	1	4	5.891
27355 Dup	43	0.04	70	< 10	1	4	5.819
30120 Orig	73	0.02	36	< 10	< 1	1	0.493
30120 Dup	73	0.02	36	< 10	< 1	1	0.504
30153 Orig	46	0.05	52	< 10	1	3	3.634
30153 Dup	46	0.05	51	< 10	1	3	3.434
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 09-Jul-08
Invoice No.: A08-3923 Additional
Invoice Date: 02-Dec-08
Your Reference: DOSSIER 22771

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

50 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3923 Additiona**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Analyte Symbol	Cu	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FUS- Na2O2	AR-ICP	AR-ICP
27355		4460	2090
27358		4950	3170
27357	2.11	> 10000	5840
27358	2.48	> 10000	2420
27359		1100	68
27360		1060	133
27361		232	37
27362		6270	564
27363	1.96	> 10000	2910
27364		2160	3320
27365		416	61

Quality Control

Analyte Symbol	Cu	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FJS- Ni2O2	AR-ICP	AR-ICP

GXR-1 Meas		1030	26
GXR-1 Cert		1110	41.0
UNG-1 Meas	0.012		
UNG-1 Cert	0.00990		
GXR-4 Meas		6530	40
GXR-4 Cert		6520	42.0
GXR-5 Meas		85	16
GXR-2 Cert		76.0	21.0
CHR-PT+ Meas	0.049		
CHR-PT+ Cert	0.038		
CZN-3 Meas	0.711		
CZN-3 Cert	0.665		
GXR-6 Meas		74	20
GXR-6 Cert		66.0	27.0
CCL-1C Meas	25.6		
CCL-1C Cert	25.6		
OREAS 13P Meas		2420	2360
OREAS 13P Cert		2500	2260
DTS-2b Meas	< 0.005		
DTS-2b Cert	0.000300		
Method Blank Method Blank		< 1	< 1
Method Blank Method Blank		< 1	< 1
Method Blank Method Blank		< 1	< 1
Method Blank Method Blank	< 0.005		
Method Blank Method Blank	< 0.005		



Date Submitted: 09-Jul-08
Invoice No.: A08-3921
Invoice Date: 24-Jul-08
Your Reference: DOSSIER 22772

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

29 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3921**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3921

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28001	0.3	< 0.5	173	123	< 2	71	3	13	3.12	< 10	32	< 1	< 10	2.34	14	170	1.36	0.05	1.04	0.27	0.013	< 10	3	< 10
28002	< 0.2	< 0.5	77	80	< 2	116	< 2	30	7.08	< 10	243	< 1	< 10	3.56	20	266	3.06	1.15	3.70	0.28	0.007	< 10	6	< 10
28003	< 0.2	1.2	96	280	< 2	548	< 2	48	3.98	< 10	8	< 1	< 10	0.18	51	284	8.91	0.01	5.90	0.02	0.008	< 10	1	< 10
28004	< 0.2	1.0	134	143	< 2	666	< 2	27	2.80	< 10	7	< 1	< 10	0.10	74	338	5.52	< 0.01	5.22	0.02	0.007	< 10	3	< 10
28005	< 0.2	< 0.5	19	140	< 2	226	< 2	28	7.31	< 10	150	< 1	< 10	4.42	26	339	2.58	0.47	3.07	0.37	0.004	< 10	3	< 10
28006	< 0.2	< 0.5	168	89	< 2	160	2	7	7.42	< 10	17	< 1	< 10	5.29	19	130	1.15	0.04	0.82	0.65	0.008	< 10	3	< 10
28007	0.8	0.6	659	147	< 2	37	< 2	35	3.04	< 10	110	< 1	< 10	0.12	12	108	2.31	0.87	2.11	0.06	0.004	< 10	2	< 10
28008	0.7	0.6	508	174	2	36	< 2	41	3.76	< 10	127	< 1	< 10	0.05	10	148	2.66	1.02	2.45	0.08	0.006	< 10	4	< 10
28009	1.1	0.9	637	206	< 2	51	< 2	47	4.16	< 10	167	< 1	< 10	0.03	17	125	3.63	1.25	2.74	0.06	0.005	< 10	5	< 10
28010	< 0.2	< 0.5	6	189	< 2	2	6	24	0.06	< 10	71	< 1	< 10	9.87	< 1	26	0.06	0.01	6.30	0.03	0.006	< 10	< 1	< 10
28148	< 0.2	< 0.5	75	95	< 2	28	3	7	5.25	< 10	18	< 1	< 10	4.00	5	181	0.77	0.02	0.88	0.55	0.003	< 10	3	< 10
28147	0.3	< 0.5	119	117	< 2	54	4	8	6.13	< 10	18	< 1	< 10	4.71	9	108	0.95	0.01	0.78	0.74	0.007	< 10	4	< 10
28149	< 0.2	< 0.5	26	104	< 2	23	2	8	5.84	< 10	16	< 1	< 10	4.56	5	124	0.78	0.01	0.70	0.63	0.009	< 10	4	< 10
28150	1.2	2.7	8970	316	< 2	> 10000	6	44	0.52	< 10	6	< 1	< 10	0.40	523	32	33.3	0.11	0.17	0.09	0.047	< 10	4	< 10
28151	0.4	< 0.5	197	96	< 2	116	6	19	5.78	< 10	87	< 1	< 10	3.80	15	362	1.69	0.29	1.61	0.49	0.027	< 10	4	< 10
28152	1.6	0.8	907	116	< 2	139	3	40	3.03	< 10	116	< 1	< 10	1.33	21	256	2.92	0.49	2.60	0.21	0.007	< 10	6	< 10
28153	0.9	0.7	461	185	< 2	35	< 2	32	3.31	< 10	477	< 1	< 10	0.71	13	95	2.76	0.73	1.87	0.20	0.007	< 10	6	< 10
28154	2.3	1.6	1010	221	< 2	63	4	43	3.22	< 10	174	< 1	< 10	1.12	11	72	2.78	0.43	1.66	0.26	0.009	< 10	4	< 10
28155	3.4	7.8	3050	773	< 2	95	238	513	2.98	< 10	20	< 1	< 10	1.75	28	78	8.97	0.04	2.12	0.07	0.078	< 10	11	12
28165	4.5	8.7	4310	898	< 2	168	73	641	3.16	< 10	13	< 1	< 10	2.18	42	108	8.97	0.02	2.21	0.06	0.049	< 10	14	< 10
28187	13.4	11.8	7390	618	< 2	2000	367	873	2.32	< 10	14	< 1	< 10	0.93	116	42	14.9	0.03	1.73	0.04	0.069	< 10	7	12
28188	13.4	10.0	7280	635	< 2	2030	339	754	2.35	< 10	15	< 1	< 10	0.96	113	45	15.1	0.04	1.73	0.05	0.069	< 10	7	13
28186	1.3	7.8	659	850	< 2	114	134	636	3.26	< 10	11	< 1	< 10	1.73	21	80	8.06	0.02	2.86	0.05	0.088	< 10	16	16
28190	0.7	0.6	1630	320	< 2	1660	4	27	5.95	< 10	24	< 1	< 10	3.08	53	145	3.61	0.04	3.42	0.34	0.003	< 10	3	< 10
28191	17.8	2.4	> 10000	899	< 2	304	698	181	3.91	< 10	9	< 1	27	2.33	33	76	10.7	< 0.01	3.03	0.03	0.123	< 10	15	76
28192	3.9	6.6	879	398	3	200	126	451	1.62	26	10	< 1	< 10	1.86	21	196	4.39	< 0.01	1.16	0.03	0.019	< 10	6	16
28193	4.0	1.1	3590	396	< 2	152	66	83	1.58	< 10	11	< 1	< 10	0.83	57	148	4.61	0.02	1.50	0.03	0.040	< 10	5	29
28194	3.6	1.3	3440	446	3	180	63	70	1.80	< 10	11	< 1	< 10	0.97	103	157	5.94	0.03	1.62	0.03	0.062	< 10	6	32
28195	0.9	0.8	402	113	< 2	96	30	47	0.41	< 10	9	< 1	< 10	0.18	9	147	1.25	0.01	0.38	0.02	0.002	< 10	1	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28001	37	0.09	34	< 10	5	1	0.148
28002	102	0.13	90	< 10	1	< 1	0.072
28003	2	0.03	52	< 10	< 1	2	0.109
28004	< 1	0.02	62	< 10	< 1	2	0.204
28005	133	0.08	40	< 10	1	< 1	0.045
28006	104	0.03	19	< 10	< 1	< 1	0.183
28007	6	0.06	11	< 10	1	2	0.109
28008	5	0.05	13	< 10	1	1	0.077
28009	5	0.07	24	< 10	1	2	0.302
28010	85	< 0.01	2	< 10	< 1	< 1	0.092
28148	101	0.02	15	< 10	< 1	< 1	0.043
28147	124	0.02	20	< 10	< 1	< 1	0.080
28146	107	0.02	18	< 10	< 1	< 1	0.039
28150	16	0.11	64	< 10	17	19	8.816
28151	76	0.06	43	< 10	4	1	0.132
28152	20	0.09	47	< 10	4	3	0.264
28153	21	0.12	26	< 10	3	2	0.081
28154	33	0.07	20	< 10	2	2	0.296
28155	27	0.17	154	< 10	12	3	0.824
28165	34	0.18	188	< 10	10	4	1.312
28167	10	0.11	116	< 10	10	5	5.781
28188	11	0.12	118	< 10	10	5	5.568
28186	16	0.22	132	< 10	16	3	0.527
28190	73	0.02	36	< 10	< 1	1	0.482
28191	19	0.27	144	< 10	15	5	1.626
28192	6	0.08	37	< 10	4	2	1.006
28193	4	0.12	53	< 10	8	4	1.465
28194	5	0.14	63	< 10	10	4	2.120
28195	2	0.02	8	< 10	1	< 1	0.406

Activation Laboratories Ltd. Report: A08-3921

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	29.0	3.2	1180	755	15	31	888	541	0.34	343	172	<1	1420	0.77	8	6	25.3	0.02	0.13	0.06	0.040	??	1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.7	0.8	6560	140	335	36	42	70	2.87	100	38	1	21	0.96	15	54	3.45	1.40	1.67	0.13	0.121	<10	7	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.80	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.8	4.5	78	1010	<2	15	710	545	3.80	<10	1290	1	<10	0.82	10	24	2.04	0.53	0.53	0.29	0.051	22	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.80	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	1.2	66	1030	<2	22	90	120	7.25	216	895	<1	<10	0.16	15	79	5.08	0.93	0.41	0.16	0.031	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2560			2030											5.57							
OREAS 13P Cert			2500			2280											7.58							
28145 Ong	< 0.2	< 0.5	27	110	< 2	24	3	7	5.58	< 10	16	< 1	< 10	4.60	5	128	0.80	0.01	0.71	0.63	0.009	< 10	4	< 10
28145 Dup	< 0.2	< 0.5	26	98	< 2	23	2	9	5.82	< 10	16	< 1	< 10	4.52	5	120	0.76	0.01	0.68	0.62	0.009	< 10	3	< 10
28153 Ong	4.0	1	3680	369	< 2	164	68	55	1.60	< 10	12	< 1	< 10	0.84	58	144	4.66	0.02	1.62	0.03	0.040	< 10	5	29
28153 Dup	4.0	1.0	3620	364	< 2	149	65	82	1.65	< 10	10	< 1	< 10	0.81	57	148	4.55	0.02	1.47	0.03	0.039	< 10	5	28
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	188		79	127	23	14	0.199
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	79		87	13	12	10	1.853
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	98		48	< 10	11	9	0.035
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	32		177	< 10	7	10	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
28145 Orig	107	0.02	19	< 10	< 1	< 1	0.039
28145 Dup	107	0.02	18	< 10	< 1	< 1	0.039
28163 Orig	4	0.12	54	< 10	8	4	1.491
28163 Dup	4	0.12	53	< 10	8	4	1.440
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 09-Jul-08
Invoice No.: A08-3919
Invoice Date: 24-Jul-08
Your Reference: DOSSIER 22773

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

40 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3919**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3919

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
24811	6.2	1.4	1990	111	<2	731	16	28	5.69	<10	14	<1	<10	3.91	44	158	2.37	0.03	1.74	0.26	0.005	<10	3	<10
24812	6.1	1.0	2080	110	<2	786	16	24	5.48	<10	11	<1	<10	3.81	52	126	2.44	0.02	1.26	0.32	0.009	<10	2	<10
24813	6.9	1.5	2670	76	<2	709	12	27	3.92	<10	9	<1	<10	2.95	49	170	1.95	0.02	0.95	0.27	0.006	<10	5	<10
24814	12.6	3.0	4920	89	<2	2010	19	51	5.27	<10	11	<1	<10	3.56	113	221	3.60	0.01	1.42	0.30	0.006	<10	2	<10
24815	6.7	1.4	2640	63	<2	1020	23	24	6.20	<10	9	<1	<10	4.57	51	119	2.08	0.01	0.84	0.37	0.006	<10	2	<10
24816	9.2	1.4	3790	79	<2	2340	16	23	4.17	<10	9	<1	<10	3.09	114	192	3.70	0.01	1.09	0.28	0.007	<10	3	<10
24817	3.3	1.1	1420	68	<2	312	21	14	6.20	<10	9	<1	<10	4.61	20	99	1.19	0.01	0.72	0.49	0.010	<10	3	<10
24818	2.5	0.8	1190	76	<2	388	20	12	5.16	<10	8	<1	<10	3.95	25	128	1.29	0.01	0.78	0.39	0.006	<10	3	<10
24819	1.5	<0.5	566	70	<2	70	28	10	6.73	<10	10	<1	<10	4.97	8	90	0.74	0.01	0.60	0.57	0.013	<10	2	<10
24820	0.7	0.6	1060	336	<2	1630	2	30	6.33	<10	25	<1	<10	3.22	56	163	3.76	0.04	3.68	0.36	0.003	<10	3	<10
24871	3.2	8.4	1960	321	<2	2960	36	238	2.45	<10	5	<1	<10	1.34	118	290	17.7	<0.01	1.88	0.07	0.008	<10	5	<10
24872	2.7	2.8	1160	72	<2	7310	27	45	0.69	<10	5	<1	<10	0.72	253	75	35.9	<0.01	0.36	0.04	0.013	12	1	<10
24873	5.3	2.9	2370	108	<2	6560	61	63	1.10	<10	5	<1	<10	0.61	292	49	35.2	<0.01	0.35	0.03	0.013	14	<1	<10
24874	5.7	3.4	5980	150	<2	4480	38	118	1.35	<10	6	<1	<10	0.73	1540	119	31.6	<0.01	0.62	0.05	0.003	11	3	<10
24875	4.2	1.7	1470	298	<2	1380	16	40	1.34	<10	8	<1	<10	1.92	105	371	5.79	0.02	1.44	0.04	0.017	<10	2	<10
24876	4.1	2.8	2230	88	<2	7940	15	63	0.60	<10	4	<1	<10	0.21	384	46	39.7	<0.01	0.27	0.02	0.004	11	<1	<10
24877	6.1	9.4	3410	379	<2	2580	103	503	2.59	<10	8	<1	<10	1.15	462	65	18.7	0.01	1.39	0.06	0.008	<10	4	<10
24878	5.4	3.6	3370	192	<2	7010	34	123	1.06	<10	6	<1	<10	0.37	367	62	36.9	<0.01	0.76	0.03	0.006	<10	2	<10
24879	28.4	27.5	>10000	524	<2	2280	134	1020	2.43	<10	5	<1	11	0.85	1820	106	28.8	<0.01	2.15	0.03	0.010	<10	4	<10
24880	0.4	<0.5	233	179	<2	61	11	24	0.05	<10	363	<1	<10	9.38	15	24	0.48	<0.01	5.37	0.04	0.011	<10	<1	<10
24881	15.6	17.4	>10000	512	<2	4310	68	693	2.72	<10	6	<1	<10	0.64	462	112	29.1	<0.01	2.46	0.04	0.009	<10	4	<10
24882	21.8	11.5	>10000	846	<2	2350	106	576	2.94	<10	13	<1	<10	1.10	57	125	19.1	0.01	2.57	0.07	0.012	<10	4	<10
24883	47.9	14.4	>10000	674	<2	2060	472	787	3.26	<10	9	<1	28	1.42	66	95	18.1	0.02	2.66	0.07	0.011	<10	5	<10
24884	9.7	13.1	5890	669	<2	3100	47	733	2.96	<10	6	<1	<10	1.06	336	99	22.7	<0.01	3.14	0.02	0.009	<10	5	<10
24885	10.8	15.8	6830	676	<2	1410	52	819	3.85	<10	12	<1	<10	0.90	741	103	19.5	0.05	3.42	0.10	0.010	<10	5	<10
24886	6.2	8.5	3310	819	<2	977	72	653	5.00	<10	17	<1	<10	1.12	108	131	13.3	0.08	4.40	0.13	0.013	<10	8	<10
24887	21.4	7.3	2970	728	<2	643	591	761	5.27	<10	17	<1	<10	1.35	78	60	11.3	0.09	4.98	0.15	0.013	<10	8	<10
24888	15.0	8.6	>10000	752	<2	704	130	752	4.79	<10	19	<1	<10	1.07	52	68	12.0	0.12	4.08	0.12	0.012	<10	8	<10
24889	34.6	16.7	>10000	976	<2	3670	81	891	3.00	<10	8	<1	<10	1.00	147	123	25.5	0.02	2.70	0.04	0.009	<10	7	<10
24890	0.7	0.6	1660	325	<2	1560	2	27	6.15	<10	21	<1	<10	3.08	54	147	3.64	0.04	3.45	0.34	0.003	<10	3	<10
24891	13.8	8.1	9600	544	<2	1790	171	589	3.30	<10	19	<1	<10	1.22	164	122	14.7	0.09	3.21	0.11	0.012	<10	4	<10
24892	7.8	7.1	2880	832	<2	960	198	542	4.01	<10	11	<1	11	1.40	128	163	13.1	0.05	3.62	0.03	0.013	<10	13	<10
24893	4.0	8.7	2570	1040	<2	670	9	1000	5.60	<10	19	<1	<10	0.32	75	126	14.5	0.06	6.35	0.02	0.022	<10	21	<10
24894	26.5	3.5	>10000	946	<2	1270	16	236	4.71	<10	6	<1	<10	0.89	109	109	18.8	0.01	4.55	0.02	0.016	<10	12	<10
24895	3.3	1.1	1510	519	<2	120	42	110	3.50	<10	32	<1	18	0.16	16	67	6.50	0.08	3.54	0.03	0.020	<10	9	<10
24896	10.5	2.6	6720	494	<2	5740	19	78	2.60	<10	7	<1	<10	0.50	267	92	32.3	<0.01	2.30	0.01	0.011	<10	6	<10
24897	4.5	2.9	2900	421	<2	8830	18	51	2.11	<10	7	<1	<10	0.50	255	97	35.5	<0.01	1.78	0.01	0.010	12	6	<10
24898	13.6	2.5	8670	684	<2	1570	59	131	3.63	14	13	<1	<10	0.14	729	158	21.7	0.05	3.67	0.02	0.012	<10	11	<10
24899	16.3	2.6	>10000	536	<2	1760	18	100	3.63	<10	11	<1	<10	0.12	230	94	17.6	0.04	4.49	0.01	0.016	<10	9	11
24900	1.0	2.7	8190	239	<2	>10000	5	43	0.49	<10	6	<1	<10	0.38	505	30	31.2	0.11	0.18	0.08	0.046	<10	4	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24811	60	0.01	22	< 10	< 1	< 1	0.721
24812	62	< 0.01	16	< 10	1	2	0.904
24813	45	< 0.01	22	< 10	1	2	0.848
24814	57	< 0.01	21	< 10	< 1	2	1.931
24815	78	< 0.01	16	< 10	< 1	< 1	1.015
24816	54	< 0.01	21	< 10	< 1	2	2.128
24817	66	< 0.01	14	< 10	1	< 1	0.426
24818	73	< 0.01	16	< 10	< 1	< 1	0.461
24819	98	< 0.01	13	< 10	< 1	< 1	0.161
24820	75	0.02	36	< 10	< 1	1	0.912
24871	18	0.03	52	< 10	< 1	6	6.019
24872	11	< 0.01	30	302	1	9	5.997
24873	13	0.01	57	140	< 1	9	6.161
24874	14	0.02	61	< 10	2	8	9.271
24875	8	0.03	25	< 10	< 1	2	2.483
24876	5	< 0.01	40	< 10	< 1	10	4.830
24877	20	0.02	67	< 10	3	6	7.665
24878	4	< 0.01	45	< 10	1	9	4.941
24879	3	0.03	67	< 10	2	7	10.04
24880	103	< 0.01	1	< 10	< 1	< 1	0.342
24881	4	0.02	71	< 10	2	7	7.247
24882	8	0.03	83	< 10	3	5	5.918
24883	9	0.02	90	< 10	3	5	6.000
24884	5	0.04	80	< 10	4	6	6.731
24885	30	0.03	69	< 10	3	5	6.498
24886	39	0.02	102	< 10	4	4	3.781
24887	47	0.03	104	< 10	4	3	2.106
24888	35	0.03	116	< 10	4	3	2.604
24889	10	0.04	112	< 10	3	7	7.164
24890	71	0.02	36	< 10	< 1	1	0.496
24891	28	0.03	103	< 10	2	4	6.571
24892	11	0.05	120	< 10	4	4	3.399
24893	3	0.06	161	< 10	6	3	1.692
24894	3	0.05	129	< 10	6	5	5.012
24895	3	0.06	69	< 10	12	4	0.323
24896	4	0.06	114	< 10	4	6	6.281
24897	3	0.05	126	< 10	4	9	6.473
24898	1	0.10	147	< 10	5	6	6.125
24899	1	0.07	90	< 10	9	8	6.001
24900	15	0.10	61	< 10	16	17	8.834

Activation Laboratories Ltd. Report: A08-3919

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	28.8	3.4	1110	829	15	29	998	534	0.30	346	252	<1	1410	0.79	9	6	24.5	0.02	0.13	0.06	0.036	79	1	23
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.7	0.8	6530	133	333	37	41	56	2.87	100	38	1	19	0.91	15	52	3.37	1.35	1.62	0.119	<10	6	<10	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	20.1	4.4	76	1030	<2	15	726	552	3.24	17	1260	1	<10	0.81	10	22	2.08	0.51	0.51	0.26	0.056	32	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	1.0	65	1020	<2	22	91	120	6.55	237	844	<1	<10	0.15	15	78	6.06	0.83	0.39	0.14	0.032	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2560			2020											5.70							
OREAS 13P Cert			2500			2280											7.58							
24871 Orig	3.2	8.5	1980	327	<2	3000	34	242	2.51	<10	5	<1	<10	1.37	119	295	18.0	<0.01	1.71	0.08	0.008	<10	5	<10
24871 Dup	3.1	8.3	1940	315	<2	2930	38	234	2.35	<10	5	<1	<10	1.31	117	284	17.4	<0.01	1.65	0.07	0.008	<10	5	<10
24884 Orig	10.0	13.5	6030	588	<2	3140	50	720	3.00	<10	6	<1	<10	1.09	340	102	22.6	<0.01	3.20	0.02	0.009	<10	5	<10
24884 Dup	9.5	12.7	5740	550	<2	3060	44	886	2.92	<10	8	<1	<10	1.04	332	97	22.6	<0.01	3.09	0.02	0.009	<10	5	<10
24888 Orig	14.2	2.8	9160	887	<2	1640	61	134	3.88	12	13	<1	<10	0.15	738	160	22.2	0.05	3.51	0.02	0.012	<10	11	<10
24888 Dup	13.0	2.4	8190	581	<2	1510	56	129	3.80	16	13	<1	<10	0.13	719	156	21.1	0.05	3.63	0.02	0.012	<10	11	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	155		80	149	23	14	0.196
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	74		85	13	11	10	1.838
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	93		48	< 10	11	12	0.036
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	31		176	< 10	6	13	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
24871 Orig	16	0.03	53	< 10	1	6	5.859
24871 Dup	16	0.03	51	< 10	< 1	5	6.179
24884 Orig	5	0.04	82	< 10	4	6	6.798
24884 Dup	5	0.03	78	< 10	4	6	6.863
24888 Orig	1	0.10	149	< 10	5	6	8.044
24888 Dup	1	0.08	145	< 10	5	6	8.205
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 09-Jul-08
Invoice No.: A08-3913- Repeat
Invoice Date: 05-Sep-08
Your Reference: DOSSIER 22774

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

20 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3913- Repeat**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3913- Repeat

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26558	< 0.2	0.8	66	833	< 2	159	< 2	57	5.63	< 10	11	< 1	< 10	3.98	28	459	5.39	0.05	4.14	0.06	0.009	< 10	11	< 10
26565	0.4	7.5	235	474	< 2	245	71	587	4.12	< 10	14	< 1	< 10	2.46	29	400	3.89	0.04	2.71	0.31	0.008	< 10	9	< 10
26570	< 0.2	< 0.5	3	11	< 2	< 1	< 2	2	0.04	< 10	8	< 1	< 10	0.03	< 1	3	0.05	0.01	0.02	0.01	0.004	< 10	< 1	< 10
26571	1.1	2.7	605	535	< 2	282	55	195	3.63	< 10	26	< 1	< 10	2.52	52	466	4.96	0.04	2.82	0.06	0.007	< 10	8	< 10
26572	0.6	1.4	270	485	< 2	218	22	114	3.33	< 10	31	< 1	< 10	2.46	33	333	3.40	0.05	2.25	0.06	0.007	< 10	5	< 10
26573	1.9	0.8	3140	474	< 2	129	7	41	3.50	< 10	15	< 1	< 10	3.19	30	360	3.85	0.03	2.54	0.23	0.003	< 10	6	< 10
26574	< 0.2	< 0.5	101	426	< 2	121	< 2	30	4.86	< 10	17	< 1	< 10	3.67	19	261	3.48	0.04	2.60	0.30	0.005	< 10	5	< 10
26575	0.3	< 0.5	221	306	< 2	140	6	24	5.78	< 10	16	< 1	< 10	4.14	20	199	2.71	0.04	2.21	0.38	0.007	< 10	4	< 10
26576	0.4	< 0.5	296	249	< 2	142	6	23	5.45	< 10	15	< 1	< 10	3.71	21	252	2.31	0.04	1.97	0.49	0.006	< 10	4	< 10
26577	< 0.2	< 0.5	197	275	< 2	121	4	25	6.11	< 10	14	< 1	< 10	4.01	15	237	2.33	0.04	2.04	0.42	0.003	< 10	4	< 10
26578	1.2	2.8	850	371	< 2	338	19	178	4.71	< 10	14	< 1	< 10	2.91	40	188	3.52	0.04	2.84	0.25	0.012	< 10	4	< 10
26579	0.6	1.4	367	323	< 2	207	7	104	4.35	< 10	13	< 1	< 10	2.83	25	140	3.03	0.03	2.30	0.22	0.009	< 10	3	< 10
26580	< 0.2	< 0.5	10	11	< 2	14	< 2	2	0.05	< 10	8	< 1	< 10	0.04	< 1	3	0.07	0.01	0.02	0.01	0.004	< 10	< 1	< 10
26581	0.3	0.8	175	465	< 2	294	3	42	4.58	< 10	15	< 1	< 10	2.57	35	257	4.37	0.05	3.62	0.09	0.007	< 10	3	< 10
26582	< 0.2	0.7	39	557	< 2	145	< 2	34	4.68	< 10	8	< 1	< 10	3.86	19	274	4.45	0.04	3.62	0.05	0.011	< 10	6	< 10
26583	0.2	0.9	209	973	< 2	186	< 2	41	4.85	< 10	7	< 1	< 10	4.33	37	506	6.06	0.02	4.31	0.03	0.010	< 10	9	< 10
26584	< 0.2	0.6	138	716	< 2	169	< 2	47	4.69	< 10	14	< 1	< 10	3.04	29	606	6.09	0.05	4.42	0.04	0.010	< 10	8	< 10
26585	0.8	0.8	366	571	< 2	106	< 2	40	4.14	< 10	15	< 1	< 10	1.68	22	277	5.19	0.05	3.42	0.04	0.019	< 10	9	< 10
26586	0.3	0.8	193	542	< 2	189	< 2	38	4.81	< 10	22	< 1	< 10	2.78	25	488	4.16	0.07	3.20	0.16	0.008	< 10	9	< 10
26587	< 0.2	0.6	62	497	< 2	65	< 2	32	3.74	< 10	17	< 1	< 10	2.26	17	238	3.86	0.06	3.18	0.07	0.010	< 10	7	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26668	15	0.07	75	< 10	5	2	0.104	
26669	34	0.05	61	< 10	2	1	0.269	
26670	2	< 0.01	< 1	< 10	< 1	3	0.015	
26671	37	0.08	95	< 10	2	2	0.744	
26672	33	0.07	56	< 10	2	1	0.305	
26673	29	0.05	49	< 10	1	2	0.601	
26674	49	0.04	44	< 10	2	1	0.050	
26675	68	0.04	36	< 10	1	< 1	0.088	
26676	75	0.03	30	< 10	1	< 1	0.086	
26677	83	0.03	29	< 10	< 1	< 1	0.002	
26678	53	0.05	41	< 10	2	1	0.224	
26679	57	0.04	30	< 10	1	1	0.122	
26680	2	< 0.01	< 1	< 10	< 1	3	0.017	8
26681	31	0.06	43	< 10	1	1	0.185	
26682	21	0.06	62	< 10	3	1	0.037	
26683	10	0.09	103	< 10	4	2	0.318	
26684	13	0.05	64	< 10	4	2	0.092	
26685	18	0.13	69	< 10	13	3	0.255	
26686	22	0.09	82	< 10	4	2	0.137	
26687	13	0.08	48	< 10	7	2	0.075	

Activation Laboratories Ltd. Report: A08-3913- Repeat

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	28.8	3.4	1110	829	15	29	998	534	0.30	348	252	< 1	1410	0.79	9	6	24.5	0.02	0.13	0.06	0.036	79	1	23
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.7	0.6	6530	133	333	37	41	56	2.87	100	38	1	19	0.91	15	52	3.37	1.35	1.62	0.12	0.119	< 10	6	< 10
GXR-4 Cert	4.00	0.660	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.6	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	20.1	4.4	76	1030	< 2	15	726	552	3.24	17	1260	1	< 10	0.81	10	22	2.08	0.51	0.51	0.26	0.056	32	5	< 10
GXR-2 Cert	17.0	4.10	76.0	1030	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	1.0	65	1020	< 2	22	91	120	6.55	237	844	< 1	< 10	0.15	15	76	6.06	0.83	0.39	0.14	0.032	< 10	22	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2560			2020											5.70							
OREAS 13P Cert			2500			2280											7.58							
26654 Ong	< 0.2	0.5	138	705	< 2	185	< 2	47	4.62	< 10	14	< 1	< 10	3.02	29	601	5.96	0.05	4.38	0.04	0.010	< 10	8	< 10
26684 Dup	< 0.2	0.5	138	727	< 2	194	< 2	47	4.75	< 10	14	< 1	< 10	3.06	29	615	6.19	0.05	4.45	0.05	0.010	< 10	8	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method																								
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S	Cu
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	155		80	149	23	14	0.196	1140
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257	1110
GXR-4 Meas	74		85	13	11	10	1.838	5640
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77	6520
GXR-2 Meas	93		48	< 10	11	12	0.036	81
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313	76.0
GXR-6 Meas	31		176	< 10	6	13	0.015	69
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160	66.0
OREAS 13P Meas								2720
OREAS 13P Cert								2500
26684 Orig	13	0.06	82	< 10	4	2	0.093	
26684 Dup	13	0.05	85	< 10	4	2	0.091	
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001	
Blank								
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001	
Blank								
Method Blank Method								< 1
Blank								



Date Submitted: 09-Jul-08
Invoice No.: A08-3918-Repeats
Invoice Date: 24-Oct-08
Your Reference: DOSSIER 22775

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

60 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-3918-Repeats**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-3918-Repeats

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26351	0.6	0.7	376	299	2	42	2	83	3.01	21	116	1	<10	0.52	12	72	3.53	0.66	2.37	0.17	0.007	<10	4	<10
26352	<0.2	0.5	199	306	<2	22	<2	84	3.19	<10	251	1	<10	0.13	11	66	4.13	0.89	2.65	0.09	0.003	<10	7	<10
26353	0.9	0.8	860	388	<2	50	2	80	3.20	<10	90	1	<10	0.21	23	71	5.63	0.87	3.18	0.06	0.005	<10	9	<10
26354	2.8	2.3	1510	397	2	20	4	111	3.10	<10	99	<1	<10	0.75	14	98	4.11	0.92	2.57	0.10	0.010	<10	5	<10
26355	1.0	1.2	660	330	2	37	2	92	3.64	<10	273	<1	<10	0.69	15	88	4.41	1.15	2.53	0.21	0.015	<10	7	<10
26356	2.3	1.9	1700	286	<2	259	5	107	4.83	<10	30	1	<10	2.60	45	160	6.17	0.96	2.75	0.33	0.021	<10	8	<10
26357	0.7	<0.5	358	133	<2	103	8	31	7.24	<10	45	<1	<10	5.72	14	226	1.72	0.16	1.23	0.52	0.015	<10	3	<10
26358	1.4	0.7	614	157	<2	133	5	34	4.67	<10	15	<1	<10	4.48	19	198	1.71	0.04	1.06	0.38	0.014	<10	4	<10
26359	0.3	<0.5	164	104	<2	85	8	14	6.52	<10	14	<1	<10	5.68	12	112	1.14	0.52	0.81	0.70	0.016	<10	3	<10
26360	<0.2	<0.5	4	10	<2	1	<2	2	0.06	<10	8	<1	<10	0.05	1	3	0.06	0.01	0.02	0.01	0.004	<10	<1	<10
26361	0.2	<0.5	119	92	<2	50	7	9	8.14	<10	12	<1	<10	4.90	7	128	0.98	0.02	0.80	0.76	0.008	<10	3	<10
26362	0.2	<0.5	136	96	<2	65	6	10	5.45	<10	14	<1	<10	4.73	10	118	0.99	0.04	0.74	0.63	0.009	<10	3	<10
26363	0.3	<0.5	186	119	<2	60	13	16	5.35	<10	16	<1	<10	4.84	10	118	1.13	0.02	0.84	0.66	0.013	<10	4	<10
26364	1.3	<0.5	244	129	<2	111	14	18	4.92	<10	46	<1	<10	4.40	14	141	1.39	0.07	1.02	0.56	0.011	<10	4	<10
26365	0.3	<0.5	157	133	<2	70	22	18	4.61	<10	62	<1	<10	4.23	11	127	1.34	0.07	1.06	0.57	0.008	<10	4	<10
26366	5.8	2.3	3490	127	<2	404	33	52	3.83	<10	37	<1	<10	2.71	31	196	3.21	0.06	1.18	0.48	0.006	<10	3	<10
26367	3.6	1.1	2250	74	<2	1530	48	34	3.81	<10	19	<1	<10	2.29	50	252	6.11	0.16	0.99	0.58	0.011	<10	2	<10
26368	2.0	1.5	1790	114	<2	1320	37	62	3.68	<10	25	<1	<10	1.80	80	330	5.85	0.21	2.39	0.26	0.008	<10	3	<10
26369	4.4	1.8	1550	159	<2	2520	17	81	2.27	<10	10	<1	<10	1.00	157	508	8.88	0.09	3.04	0.09	0.006	<10	3	<10
26370	0.5	<0.5	1770	306	<2	1790	<2	29	5.10	<10	21	<1	<10	2.90	54	148	3.74	0.03	3.44	0.35	0.003	<10	3	<10
26371	4.7	5.4	3230	191	<2	2060	50	100	3.35	<10	11	<1	<10	1.65	104	182	8.18	0.04	1.77	0.23	0.009	<10	2	<10
26372	2.5	5.8	2010	133	<2	1190	83	108	4.39	<10	13	<1	<10	2.78	77	85	5.38	0.05	1.15	0.33	0.013	<10	3	<10
26373	3.5	3.7	3470	142	<2	1720	69	200	3.05	<10	15	<1	<10	1.85	116	85	6.52	0.10	0.85	0.27	0.040	<10	3	<10
26374	2.1	3.4	1980	193	<2	2170	67	215	2.78	<10	9	<1	<10	1.53	112	45	12.4	0.23	1.05	0.27	0.138	<10	5	<10
26375	2.4	3.2	2520	234	<2	453	44	250	1.84	<10	14	<1	<10	0.73	47	80	6.85	0.63	1.92	0.11	0.073	<10	9	<10
26376	6.5	4.5	5420	178	<2	2040	67	353	1.80	<10	12	<1	<10	0.64	50	103	13.5	0.09	1.01	0.18	0.027	<10	3	<10
26377	4.9	5.2	3810	125	<2	932	113	328	2.09	<10	15	<1	<10	0.94	59	141	7.81	0.07	0.88	0.34	0.021	<10	2	<10
26378	12.3	11.5	8410	132	<2	8270	108	1150	0.60	<10	4	<1	<10	0.23	310	75	37.8	0.06	0.41	0.07	0.010	<10	1	12

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26351	17	0.08	12	< 10	2	3	0.141
26352	9	0.08	22	< 10	3	2	0.096
26353	7	0.18	41	< 10	8	3	0.804
26354	10	0.08	13	< 10	19	7	0.533
26355	18	0.15	27	< 10	5	3	0.232
26356	32	0.14	50	< 10	9	3	1.447
26357	83	0.05	41	< 10	2	1	0.119
26358	73	0.05	32	< 10	1	1	0.224
26359	119	0.03	22	< 10	1	1	0.149
26360	2	< 0.01	1	< 10	1	3	0.020
26361	111	0.03	19	< 10	1	1	0.075
26362	104	0.03	19	< 10	1	< 1	0.105
26363	113	0.04	22	< 10	1	< 1	0.079
26364	98	0.04	25	< 10	1	1	0.135
26365	75	0.03	25	< 10	1	1	0.080
26366	58	0.03	20	< 10	1	1	1.139
26367	43	0.05	39	< 10	2	3	2.738
26368	28	0.06	36	< 10	1	2	1.929
26369	11	0.05	35	< 10	1	3	3.862
26370	54	0.02	34	< 10	< 1	1	0.495
26371	29	0.02	27	< 10	1	2	3.345
26372	39	0.03	39	< 10	1	1	1.941
26373	31	0.07	72	< 10	4	3	3.476
26374	33	0.09	114	< 10	9	6	4.126
26375	8	0.15	110	< 10	6	4	1.615
26376	21	0.06	133	< 10	2	3	4.449
26377	29	0.07	158	< 10	1	2	2.557
26378	6	0.04	155	< 10	1	7	7.802

Quality Control																								
Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	28.1	3.8	1280	779	15	34	811	888	0.29	388	145	1	1810	0.79	10	6	27.8	0.03	0.14	0.05	0.039	??	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.7	0.7	6760	139	347	42	46	73	2.31	107	20	1	23	0.96	15	58	3.94	1.44	1.75	0.12	0.128	< 10	7	< 10
GXR-4 Cert	4.00	0.860	6920	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.80	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	21.3	4.9	93	1090	< 2	20	817	595	3.11	15	1270	1	< 10	0.87	11	28	2.53	0.99	0.60	0.23	0.063	35	5	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.80	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.9	72	1000	< 2	27	94	125	6.00	241	896	1	< 10	0.17	16	84	5.67	0.94	0.43	0.12	0.033	< 10	23	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			3010			2580											6.34							
OREAS 13P Cert			2500			2280											7.58							
26363 Ong	0.3	< 0.5	137	125	< 2	59	13	16	5.45	< 10	16	< 1	< 10	4.96	10	121	1.17	0.02	0.88	0.57	0.013	< 10	4	< 10
26363 Dup	0.3	< 0.5	135	113	< 2	61	12	15	5.21	< 10	16	< 1	< 10	4.72	10	115	1.10	0.02	0.82	0.54	0.012	< 10	4	< 10
26377 Ong	4.9	5.2	3810	124	< 2	926	108	324	2.08	< 10	14	< 1	< 10	0.94	58	140	7.79	0.07	0.67	0.34	0.021	< 10	2	< 10
26377 Dup	5.0	5.2	3820	125	< 2	938	117	327	2.11	< 10	15	< 1	< 10	0.94	59	141	7.83	0.07	0.68	0.34	0.021	< 10	2	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	155		79	143	24	13	0.199
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	69		66	14	12	10	1.875
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77
GXR-2 Meas	97		64	< 10	12	12	0.038
GXR-2 Cert	180		62.0	1.90	17.0	269	0.0313
GXR-6 Meas	32		182	< 10	7	13	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
26363 Orig	116	0.04	22	< 10	1	1	0.081
26363 Dup	110	0.03	21	< 10	1	< 1	0.077
26377 Orig	29	0.07	167	< 10	1	2	2.548
26377 Dup	29	0.07	169	< 10	1	2	2.566
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 14-Jul-08
Invoice No.: A08-4035-Repeat
Invoice Date: 05-Sep-08
Your Reference: DOSSIER #22778

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

84 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4035-Repeat**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

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Activation Laboratories Ltd. Report: A08-4035-Repeat

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
30282	< 0.2	< 0.5	66	153	< 2	31	< 2	11	4.65	< 10	241	< 1	< 10	3.42	7	37	1.45	0.09	0.76	0.36	0.106	< 10	4	< 10
30283	7.6	4.3	> 10000	170	3	837	3	105	3.14	< 10	38	< 1	< 10	2.24	163	49	4.43	0.11	1.07	0.71	0.019	< 10	3	< 10
30284	3.9	1.0	5390	230	9	590	7	43	1.28	< 10	10	< 1	< 10	1.72	93	80	3.75	0.02	1.51	0.08	0.010	< 10	2	< 10
30285	0.8	< 0.5	1500	450	< 2	180	< 2	15	0.65	< 10	62	< 1	< 10	10.1	27	11	5.00	0.09	4.24	0.04	0.006	< 10	2	< 10
30286	1.1	< 0.5	1800	325	2	568	2	24	1.49	< 10	14	< 1	< 10	1.47	59	36	3.13	0.02	1.23	0.07	0.025	< 10	4	< 10
30287	< 0.2	< 0.5	156	236	< 2	39	2	12	3.69	< 10	24	< 1	< 10	3.12	13	24	1.66	0.02	0.75	0.28	0.030	< 10	6	< 10
30288	< 0.2	< 0.5	163	232	< 2	78	< 2	15	3.38	< 10	60	< 1	< 10	2.46	18	96	2.23	0.08	1.40	0.21	0.021	< 10	5	< 10
30289	0.3	< 0.5	721	246	< 2	373	8	63	1.73	< 10	11	< 1	< 10	1.62	54	78	2.77	0.02	2.01	0.06	0.009	< 10	1	< 10
30290	0.7	< 0.5	1590	299	< 2	1600	5	27	5.38	< 10	19	< 1	< 10	2.76	56	142	3.32	0.23	3.15	0.31	0.003	< 10	3	< 10
30291	3.3	0.9	3070	376	2	361	16	49	2.45	< 10	10	< 1	< 10	1.37	117	114	3.22	0.02	2.91	0.10	0.007	< 10	2	< 10
30292	< 0.2	< 0.5	278	390	< 2	93	< 2	25	2.52	< 10	81	< 1	< 10	1.23	48	40	5.03	0.07	2.27	0.03	0.024	< 10	5	< 10
30293	< 0.2	< 0.5	306	394	< 2	62	< 2	23	2.28	< 10	40	< 1	< 10	1.24	45	38	5.33	0.07	1.65	0.03	0.034	< 10	6	< 10
30294	< 0.2	< 0.5	7	218	< 2	196	< 2	38	3.14	< 10	8	< 1	< 10	1.22	28	140	2.63	0.02	3.05	0.07	0.020	< 10	1	< 10
30295	< 0.2	< 0.5	129	294	< 2	45	< 2	23	2.35	< 10	9	< 1	< 10	2.16	19	50	2.68	0.01	0.54	0.29	0.042	< 10	7	< 10
30296	< 0.2	< 0.5	224	394	< 2	49	< 2	24	2.65	< 10	9	< 1	< 10	2.29	36	34	4.03	0.01	1.27	0.22	0.049	< 10	8	< 10
30297	< 0.2	< 0.5	322	482	< 2	76	< 2	27	2.66	< 10	6	< 1	< 10	1.79	35	126	4.06	< 0.01	1.88	0.10	0.033	< 10	5	< 10
30298	< 0.2	< 0.5	229	152	< 2	73	< 2	13	5.01	< 10	9	< 1	< 10	3.76	11	71	1.32	0.02	1.11	0.38	0.009	< 10	2	< 10
30299	< 0.2	< 0.5	162	339	< 2	46	< 2	22	2.63	< 10	15	< 1	< 10	2.43	22	63	3.40	0.02	1.30	0.18	0.041	< 10	8	< 10
30300	0.9	1.4	8110	248	< 2	> 10000	3	40	0.45	< 10	7	< 1	< 10	0.34	537	30	30.6	0.10	0.15	0.07	0.047	< 10	3	< 10
30301	0.3	< 0.5	466	283	< 2	64	9	24	3.45	< 10	17	< 1	< 10	2.86	29	54	3.33	0.02	0.98	0.32	0.038	< 10	7	< 10
30302	0.3	< 0.5	291	102	< 2	96	3	27	6.67	< 10	71	< 1	< 10	3.87	16	456	2.23	0.33	2.29	0.36	0.006	< 10	5	< 10
30303	0.2	< 0.5	244	164	< 2	49	3	17	3.48	< 10	20	< 1	< 10	2.92	22	54	2.14	0.02	0.85	0.41	0.079	< 10	8	< 10
30304	< 0.2	< 0.5	164	305	< 2	44	3	25	3.40	< 10	19	< 1	< 10	3.03	20	51	2.70	0.02	0.84	0.33	0.039	< 10	8	< 10
30305	< 0.2	< 0.5	153	307	< 2	46	3	23	2.23	< 10	9	< 1	< 10	1.96	23	49	2.63	0.02	0.95	0.28	0.039	< 10	7	< 10
30306	< 0.2	< 0.5	179	412	< 2	50	6	35	2.81	< 10	10	< 1	< 10	2.23	25	63	3.54	0.05	1.38	0.25	0.037	< 10	8	< 10
30307	< 0.2	< 0.5	192	96	< 2	26	3	25	2.17	< 10	154	< 1	< 10	0.34	14	66	2.48	0.53	1.78	0.09	0.030	< 10	6	< 10
30308	0.8	< 0.5	724	101	< 2	29	3	27	2.07	< 10	115	< 1	< 10	0.30	15	71	2.47	0.42	1.80	0.07	0.025	< 10	4	< 10
30309	1.0	0.6	1110	103	2	66	< 2	24	1.76	< 10	60	< 1	< 10	0.21	21	64	2.47	0.22	1.44	0.05	0.015	< 10	3	< 10
30310	< 0.2	< 0.5	5	9	< 2	< 1	< 2	1	0.03	< 10	7	< 1	< 10	0.04	< 1	2	0.06	< 0.01	0.02	0.01	0.004	< 10	< 1	< 10
30311	1.6	0.9	1190	133	< 2	96	4	39	2.35	< 10	59	< 1	< 10	0.59	24	142	2.83	0.23	2.32	0.09	0.015	< 10	4	< 10
30312	0.4	< 0.5	341	116	< 2	139	10	20	5.34	< 10	16	< 1	< 10	3.87	19	112	1.47	0.06	1.40	0.29	0.014	< 10	2	< 10
30313	< 0.2	< 0.5	188	109	< 2	88	10	18	4.51	< 10	9	< 1	< 10	3.55	14	90	1.18	0.02	1.08	0.22	0.009	< 10	2	< 10
30314	0.3	0.5	227	210	< 2	401	< 2	50	2.71	< 10	5	< 1	< 10	0.43	44	233	2.81	< 0.01	3.53	0.04	0.010	< 10	< 1	< 10
30315 - NS																								
30316	2.3	< 0.5	2050	203	< 2	496	< 2	71	2.60	< 10	5	< 1	< 10	0.28	54	214	3.25	< 0.01	3.87	0.03	0.010	< 10	< 1	< 10
30317	0.4	< 0.5	346	152	< 2	351	6	44	2.66	< 10	7	< 1	< 10	1.58	35	212	2.10	0.02	2.33	0.10	0.007	< 10	2	< 10
30318	1.3	1.3	796	216	< 2	964	8	122	2.51	< 10	5	< 1	< 10	0.61	72	236	3.81	< 0.01	3.04	0.05	0.004	< 10	1	< 10
30319	< 0.2	< 0.5	129	150	< 2	58	17	21	4.62	< 10	9	< 1	< 10	3.85	9	80	1.17	0.04	0.95	0.31	0.011	< 10	3	< 10
30320	0.7	< 0.5	1090	297	< 2	1630	3	27	5.33	< 10	18	< 1	< 10	2.76	55	142	3.36	0.03	3.17	0.30	0.003	< 10	3	< 10
30321	< 0.2	< 0.5	162	258	< 2	88	22	39	3.52	< 10	6	< 1	< 10	2.80	18	95	1.75	0.01	1.15	0.25	0.013	< 10	3	< 10
30322	< 0.2	< 0.5	81	154	< 2	74	16	21	4.28	< 10	8	< 1	< 10	3.58	12	63	1.19	< 0.01	0.75	0.51	0.012	< 10	3	< 10
30323	1.1	< 0.5	694	90	< 2	56	19	20	5.67	< 10	8	< 1	< 10	4.41	12	52	0.94	< 0.01	0.68	0.49	0.010	< 10	3	< 10
30324	0.7	< 0.5	334	131	< 2	74	18	32	5.13	< 10	7	< 1	< 10	4.18	12	59	1.11	0.01	0.81	0.44	0.012	< 10	3	< 10
30325	0.5	< 0.5	245	95	< 2	53	20	28	4.76	< 10	8	< 1	< 10	3.82	10	51	0.93	0.01	0.71	0.41	0.018	< 10	3	< 10
30326	< 0.2	< 0.5	120	105	< 2	62	20	19	5.08	< 10	7	< 1	< 10	4.01	11	66	0.90	0.01	0.88	0.44	0.012	< 10	3	< 10
30327	< 0.2	< 0.5	80	80	< 2	50	25	25	5.34	< 10	7	< 1	< 10	4.11	9	51	0.83	0.01	0.63	0.44	0.012	< 10	2	< 10
30328	< 0.2	< 0.5	86	97	< 2	33	26	19	5.15	< 10	7	< 1	< 10	4.09	7	63	0.89	0.01	0.65	0.48	0.013	< 10	3	< 10
30329	0.5	< 0.5	218	92	< 2	114	40	43	5.88	< 10	7	< 1	< 10	4.53	12	81	1.43	0.02	0.71	0.42	0.012	< 10	3	< 10
30330	< 0.2	< 0.5	4	9	< 2	< 1	< 2	1	0.05	< 10	7	< 1	< 10	0.04	< 1	2	0.05	< 0.01	0.02	0.01	0.004	< 10	< 1	< 10
30331	2.1	1.7	2270	139	< 2	679	46	148	5.41	< 10	29	< 1	< 10	3.34	114	92	5.51	0.17	1.54	0.32	0.007	< 10	3	< 10
30332	4.8	1.7	4380	220	< 2	1490	33	426	3.91	< 10	21	< 1	< 10	1.38	111	98	10.1	0.34	2.54	0.26	0.008	< 10	4	< 10
30333	6.7	1.8	6700	234	< 2	2880	14	294	1.65	< 10	11	< 1	< 10	0.42	238	82	16.4	0.10	1.60	0.05	0.008	< 10	4	< 10

Activation Laboratories Ltd. Report: A08-4035-Repeat

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	<10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
30334	3.1	1.2	3410	314	<2	4310	17	255	2.47	<10	3	<1	<10	0.25	150	91	22.7	0.27	2.20	0.07	0.007	<10	5	<10
30335	10.5	5.2	>10000	590	<2	4140	26	492	2.69	<10	9	<1	<10	1.34	268	66	25.6	0.05	2.36	0.03	0.016	<10	7	<10
30336	2.8	2.8	2120	452	<2	197	83	254	3.45	<10	19	<1	<10	2.75	41	131	4.78	0.04	1.50	0.20	0.020	<10	7	<10
30337	27.2	23.0	>10000	570	<2	2560	123	1040	2.60	<10	11	<1	<10	1.62	153	176	18.1	0.07	1.76	0.13	0.021	<10	4	<10
30338	10.3	14.4	9620	173	<2	7710	69	600	1.16	11	5	<1	<10	0.27	407	51	37.3	0.14	0.69	0.05	0.010	13	2	<10
30339	2.4	3.9	1760	118	<2	7070	61	232	1.34	<10	6	<1	<10	0.43	305	48	35.5	0.10	0.60	0.10	0.011	11	2	<10
30340	0.7	<0.5	1440	296	<2	1640	2	28	5.17	<10	19	<1	<10	2.76	55	141	3.34	0.03	3.13	0.30	0.003	<10	3	<10
30341	5.3	4.3	3820	399	<2	818	177	266	1.88	<10	23	<1	<10	0.64	66	81	7.68	0.05	1.37	0.06	0.011	<10	3	<10
30342	13.8	14.5	>10000	150	<2	6120	63	521	1.30	<10	6	<1	<10	0.55	354	35	32.1	0.18	0.73	0.07	0.018	10	2	<10
30343	15.1	39.4	>10000	76	<2	6620	61	1600	1.16	<10	6	<1	<10	0.38	380	66	35.2	0.24	0.67	0.10	0.014	10	2	<10
30344	24.1	49.4	>10000	102	<2	8400	62	2050	1.27	13	9	<1	<10	0.28	387	50	35.0	0.14	0.85	0.06	0.018	11	3	<10
30345	18.7	16.7	>10000	54	<2	8800	34	750	0.42	12	9	<1	<10	0.05	541	44	43.3	0.06	0.34	0.02	0.010	14	1	<10
30346	16.5	17.3	>10000	64	<2	8450	26	814	0.48	<10	9	<1	<10	0.09	543	36	41.0	0.06	0.31	0.03	0.013	12	<1	<10
30347	25.1	17.6	>10000	415	<2	1700	61	1260	2.51	<10	10	<1	164	0.53	133	62	17.3	0.36	2.08	0.10	0.025	<10	9	<10
30348	0.7	1.6	906	558	<2	208	17	427	2.65	<10	38	<1	<10	0.31	27	69	8.16	0.45	1.87	0.05	0.026	<10	5	<10
30349	<0.2	<0.5	131	33*	<2	21	4	109	2.45	<10	126	<1	<10	0.14	7	73	4.09	0.57	1.60	0.04	0.011	<10	3	<10
30350	1.0	1.0	8290	250	<2	>10000	3	41	0.45	<10	7	<1	<10	0.35	552	31	31.4	0.11	0.15	0.07	0.049	10	3	<10
30351	<0.2	<0.5	24	198	<2	14	2	51	1.69	<10	64	<1	<10	0.09	5	70	2.20	0.27	1.32	0.03	0.014	<10	1	<10
30352	<0.2	<0.5	19	418	5	17	<2	89	2.38	<10	109	<1	<10	0.24	9	105	3.11	0.50	1.83	0.05	0.027	<10	3	<10
30353	<0.2	<0.5	17	416	3	16	<2	77	2.21	<10	89	<1	<10	0.27	5	137	2.85	0.34	1.56	0.05	0.021	<10	2	<10
30354	<0.2	<0.5	11	310	4	15	<2	88	2.19	<10	70	<1	<10	0.14	5	139	3.06	0.42	1.76	0.03	0.031	<10	2	<10
30355	<0.2	<0.5	8	324	<2	11	<2	77	2.46	<10	63	<1	<10	0.06	6	133	3.56	0.30	2.00	0.02	0.009	<10	2	<10
30356	0.3	0.6	139	877	4	35	10	338	3.69	<10	156	<1	<10	0.55	24	80	5.56	0.89	2.85	0.06	0.006	<10	6	<10
30357	<0.2	<0.5	6	419	<2	29	<2	68	2.02	<10	55	<1	<10	0.83	14	96	2.85	0.27	1.65	0.03	0.015	<10	2	<10
30358	<0.2	<0.5	5	347	3	20	<2	66	1.89	<10	45	<1	<10	0.20	8	100	2.14	0.17	1.83	0.03	0.017	<10	1	<10
30359	<0.2	6.6	147	916	<2	46	<2	1320	3.16	<10	118	<1	<10	1.04	21	93	5.06	0.38	2.62	0.04	0.052	<10	11	<10
30360	<0.2	1.1	162	814	<2	43	5	428	3.89	<10	270	<1	<10	1.50	24	75	5.86	0.85	2.88	0.10	0.058	<10	14	<10
30361	<0.2	<0.5	70	590	<2	39	<2	169	2.51	<10	62	<1	<10	1.87	23	84	4.46	0.16	2.18	0.05	0.049	<10	8	<10
30362	<0.2	<0.5	127	90*	2	43	<2	132	2.64	<10	94	<1	<10	1.81	21	100	4.45	0.13	2.22	0.06	0.046	<10	9	<10
30363	<0.2	<0.5	97	532	<2	56	<2	57	2.28	<10	13	<1	<10	2.14	24	104	4.31	0.04	1.79	0.13	0.041	<10	9	<10
30364	<0.2	<0.5	117	403	<2	67	<2	39	2.09	<10	12	<1	<10	2.27	22	83	3.41	0.04	1.41	0.17	0.039	<10	8	<10
30365	0.2	<0.5	28	408	<2	25	<2	51	1.88	<10	43	<1	<10	1.38	15	89	3.49	0.11	1.58	0.07	0.045	<10	7	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30282	85	0.05	46	< 10	5	< 1	0.055	
30283	45	0.05	38	< 10	3	2	2.049	
30284	10	0.02	22	< 10	4	2	1.417	
30285	17	0.03	22	< 10	5	2	0.945	
30286	20	0.08	54	< 10	11	3	0.744	
30287	73	0.08	59	< 10	4	1	0.059	
30288	47	0.08	65	26	3	1	0.071	
30289	15	0.03	20	< 10	4	2	0.773	
30290	67	0.01	32	< 10	< 1	1	0.512	
30291	12	0.02	20	< 10	2	1	0.659	
30292	10	0.12	111	< 10	2	2	0.770	
30293	10	0.14	131	< 10	2	2	0.902	
30294	28	0.02	23	< 10	< 1	< 1	0.022	
30295	38	0.08	73	< 10	5	1	0.189	
30296	44	0.10	118	< 10	3	2	0.556	
30297	21	0.10	89	< 10	3	2	0.439	
30298	76	0.01	15	< 10	< 1	< 1	0.069	
30299	52	0.06	86	< 10	6	1	0.228	
30300	13	0.08	59	< 10	14	16	9.214	
30301	57	0.07	70	< 10	5	1	0.542	
30302	72	0.07	88	< 10	1	< 1	0.072	
30303	38	0.07	77	< 10	6	1	0.325	
30304	51	0.08	74	< 10	6	1	0.262	
30305	34	0.07	67	< 10	5	1	0.310	
30306	43	0.10	89	< 10	5	1	0.203	
30307	9	0.10	39	< 10	4	3	0.136	
30308	11	0.09	17	< 10	4	3	0.291	
30309	11	0.05	16	< 10	4	2	0.629	
30310	1	< 0.01	< 1	< 10	< 1	3	0.018	
30311	12	0.05	32	< 10	5	2	0.383	
30312	65	0.03	16	< 10	1	< 1	0.114	
30313	78	0.02	15	< 10	< 1	< 1	0.080	
30314	2	0.02	15	< 10	< 1	< 1	0.128	
30315 - NS								
30316	< 1	0.02	14	< 10	< 1	< 1	0.422	
30317	30	0.01	12	< 10	< 1	< 1	0.258	
30318	4	0.01	16	< 10	< 1	1	0.741	
30319	98	0.03	22	< 10	< 1	< 1	0.064	
30320	67	0.01	32	< 10	< 1	< 1	0.517	
30321	61	0.08	38	< 10	2	< 1	0.121	
30322	83	0.03	27	< 10	1	< 1	0.101	
30323	104	0.02	19	< 10	< 1	< 1	0.142	
30324	93	0.03	24	< 10	1	< 1	0.109	
30325	77	0.02	21	< 10	< 1	< 1	0.082	
30326	84	0.02	22	< 10	< 1	< 1	0.086	
30327	66	0.02	19	< 10	< 1	< 1	0.064	
30328	80	0.03	23	< 10	1	< 1	0.051	
30329	75	0.02	30	< 10	1	< 1	0.305	
30330	2	< 0.01	< 1	< 10	< 1	3	0.018	
30331	57	0.04	60	< 10	1	1	2.518	
30332	21	0.06	77	< 10	1	3	4.225	
30333	3	0.03	45	< 10	1	4	7.856	

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30334	13	0.05	73	< 10	1	5	8.119	
30335	8	0.03	81	< 10	3	5	8.696	
30336	63	0.07	93	< 10	3	2	0.818	
30337	12	0.03	91	< 10	2	4	7.708	
30338	5	0.04	76	< 10	1	7	7.060	
30339	9	0.03	74	< 10	2	9	8.454	
30340	67	0.01	32	< 10	< 1	1	0.535	
30341	7	0.04	21	< 10	15	3	2.478	
30342	10	0.06	63	< 10	2	7	8.490	
30343	9	0.05	107	< 10	1	7	7.911	
30344	8	0.03	104	< 10	1	7	8.060	
30345	2	0.02	69	< 10	< 1	8	7.509	
30346	3	0.02	85	< 10	< 1	8	7.831	
30347	16	0.14	121	< 10	7	5	6.341	
30348	17	0.08	34	< 10	9	5	1.851	
30349	7	0.08	10	< 10	7	5	0.182	
30350	14	0.08	59	< 10	15	16	9.738	
30351	4	0.05	4	< 10	12	6	0.027	
30352	10	0.08	22	< 10	11	7	0.027	
30353	11	0.05	17	< 10	12	6	0.023	
30354	5	0.04	4	< 10	14	8	0.019	
30355	4	0.04	4	< 10	14	9	0.018	
30356	11	0.13	46	< 10	14	5	0.319	
30357	5	0.09	8	< 10	14	6	0.018	
30358	5	0.07	5	< 10	18	6	0.011	
30359	14	0.24	102	< 10	11	4	0.154	
30360	15	0.28	126	< 10	7	3	0.260	161
30361	11	0.12	69	< 10	9	3	0.118	
30362	13	0.12	95	< 10	10	3	0.086	
30363	25	0.10	116	< 10	6	2	0.112	
30364	30	0.09	92	< 10	5	2	0.161	
30365	17	0.14	75	< 10	6	5	0.045	

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	31.1	3.0	1200	852	16	34	850	678	0.34	379	237	<1	1860	0.81	10	7	25.4	0.02	0.14	0.06	0.039	50	1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	4.0	< 0.5	6290	138	350	39	46	57	2.66	104	37	1	19	0.95	15	56	3.53	1.44	1.74	0.12	0.130	< 10	7	< 10
GXR-4 Cert	4.00	0.860	6020	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	22.8	4.7	89	1100	<2	17	806	591	3.53	20	1200	1	<10	0.82	10	27	2.35	0.59	0.57	0.23	0.065	39	5	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.8	63	1000	<2	23	97	121	6.63	227	934	<1	<10	0.17	14	82	5.31	0.87	0.41	0.11	0.033	< 10	21	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.9	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas																								
OREAS 13P Cert																								
30253 Ong	< 0.2	< 0.5	303	390	< 2	60	< 2	23	2.25	< 10	40	< 1	< 10	1.22	46	38	5.26	0.07	1.88	0.03	0.034	< 10	6	< 10
30263 Dup	< 0.2	< 0.5	310	399	< 2	63	< 2	23	2.31	< 10	41	< 1	< 10	1.26	47	38	5.39	0.07	1.82	0.03	0.034	< 10	6	< 10
30307 Ong	< 0.2	< 0.5	156	94	< 2	24	3	25	2.15	< 10	150	< 1	< 10	0.34	14	66	2.45	0.52	1.75	0.09	0.029	< 10	6	< 10
30307 Dup	< 0.2	< 0.5	149	96	2	28	3	26	2.15	< 10	157	< 1	< 10	0.34	14	66	2.61	0.54	1.80	0.09	0.030	< 10	6	< 10
30320 Ong	0.7	< 0.5	1560	295	< 2	1630	4	27	5.33	< 10	18	< 1	< 10	2.74	54	140	3.34	0.03	3.17	0.30	0.003	< 10	3	< 10
30320 Dup	0.7	< 0.5	1610	299	< 2	1640	3	27	5.33	< 10	19	< 1	< 10	2.76	55	143	3.38	0.03	3.18	0.30	0.003	< 10	3	< 10
30334 Ong	3.1	1.3	3420	317	< 2	4460	15	268	2.48	< 10	8	< 1	< 10	0.25	163	91	23.6	0.28	2.23	0.07	0.007	< 10	5	< 10
30334 Dup	3.1	1.2	3390	311	< 2	4150	19	262	2.45	< 10	9	< 1	< 10	0.25	167	90	21.8	0.27	2.18	0.06	0.007	< 10	4	< 10
30357 Ong	< 0.2	< 0.5	6	418	< 2	28	< 2	89	2.01	< 10	56	< 1	< 10	0.82	13	95	2.84	0.27	1.84	0.03	0.015	< 10	2	< 10
30357 Dup	< 0.2	< 0.5	6	419	3	29	< 2	88	2.03	< 10	55	< 1	< 10	0.84	14	97	2.86	0.27	1.65	0.03	0.015	< 10	2	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	< 1	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method																								
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S	Cu
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Detection Limit	1	0.01	1	10	1	1	0.001	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	182		82	145	25	14	0.218	1140
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257	1110
GXR-4 Meas	75		89	12	12	10	1.997	5640
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77	5520
GXR-2 Meas	97		53	< 10	12	13	0.040	81
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313	76.0
GXR-6 Meas	34		173	< 10	6	11	0.016	59
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160	66.0
OREAS 13P Meas								2720
OREAS 13P Cert								2500
30293 Orig	10	0.13	130	< 10	2	2	0.882	
30293 Dup	10	0.14	132	< 10	2	2	0.921	
30307 Orig	9	0.10	36	< 10	4	3	0.133	
30307 Dup	9	0.11	39	< 10	4	3	0.140	
30320 Orig	67	0.01	32	< 10	< 1	< 1	0.516	
30320 Dup	67	0.01	33	< 10	< 1	1	0.519	
30334 Orig	14	0.05	74	< 10	1	5	8.530	
30334 Dup	13	0.04	71	< 10	1	5	7.709	
30357 Orig	5	0.09	8	< 10	14	8	0.017	
30357 Dup	6	0.09	8	< 10	14	8	0.019	
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001	
Blank								
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001	
Blank								
Method Blank Method								< 1
Blank								



Date Submitted: 14-Jul-08
Invoice No.: A08-4035 Repeats
Invoice Date: 27-Nov-08
Your Reference: DOSSIER #22778

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

84 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT A08-4035 Repeats

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Analyte Symbol	Cu	Ni
Unit Symbol	ppm	ppm
Detection Limit	1	1
Analysis Method	AR-ICP	AR-ICP
30355	9	8
30356	151	34
30357	8	20
30358	5	18
30359	151	47
30360	162	44
30361	81	44
30362	145	45
30363	108	60
30364	135	65
30365	32	28

Quality Control

Analyte Symbol	Cu	Ni
Unit Symbol	ppm	ppm
Detection Limit	1	1
Analysis Method	AR-ICP	AR-ICP
GXR-1 Meas	1030	28
GXR-1 Cert	1110	41.0
GXR-4 Meas	5530	40
GXR-4 Cert	5520	42.0
GXR-2 Meas	85	19
GXR-2 Cert	76.0	21.0
GXR-6 Meas	74	20
GXR-6 Cert	66.0	27.0
OREAS 13P Meas	2420	2350
OREAS 13P Cert	2500	2260
30365 Orig	32	28
30365 Dup	31	28
Method Blank Method Blank	< 1	< 1
Method Blank Method Blank	< 1	< 1
Method Blank Method Blank	< 1	< 1



Date Submitted: 14-Jul-08
Invoice No.: A08-4036
Invoice Date: 06-Aug-08
Your Reference: DOSSIER #22780

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

66 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4036**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4036

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
27379	< 0.2	< 0.5	89	151	< 2	54	< 2	16	2.97	10	17	< 1	< 10	2.47	13	131	1.53	0.04	0.85	0.41	0.008	< 10	4	< 10
27380	< 0.2	< 0.5	3	10	< 2	< 1	< 2	2	0.03	< 10	8	< 1	< 10	0.04	1	2	0.06	0.01	0.02	0.01	0.004	< 10	< 1	< 10
27381	< 0.2	< 0.5	91	230	< 2	35	< 2	17	2.45	< 10	10	< 1	< 10	2.21	15	39	2.14	0.02	0.95	0.25	0.017	< 10	8	< 10
27382	< 0.2	< 0.5	173	219	< 2	50	< 2	19	1.07	< 10	10	< 1	< 10	1.36	18	33	2.45	0.02	0.85	0.14	0.020	< 10	8	< 10
27383	< 0.2	< 0.5	172	164	< 2	36	< 2	15	1.32	< 10	8	< 1	< 10	1.32	11	47	1.96	0.02	1.00	0.19	0.016	< 10	7	< 10
27384	1.3	< 0.5	3790	195	< 2	78	< 4	28	2.57	< 10	19	< 1	< 10	1.70	38	78	3.92	0.10	1.83	0.20	0.011	< 10	7	< 10
27385	< 0.2	< 0.5	680	286	< 2	29	< 2	21	1.32	< 10	11	< 1	< 10	1.67	18	59	3.08	0.03	1.25	0.17	0.066	< 10	9	< 10
27386	< 0.2	< 0.5	160	346	< 2	39	< 2	26	1.37	< 10	16	< 1	< 10	1.73	22	66	4.09	0.03	1.14	0.19	0.067	< 10	11	< 10
27387	< 0.2	< 0.5	134	433	< 2	41	< 2	32	1.37	< 10	10	< 1	< 10	1.82	23	54	4.24	0.04	1.19	0.20	0.066	< 10	11	< 10
27388	< 0.2	< 0.5	161	452	< 2	37	< 2	36	1.32	< 10	9	< 1	< 10	1.87	20	56	4.13	0.04	1.05	0.20	0.067	< 10	11	< 10
27389	< 0.2	< 0.5	192	487	< 2	37	< 2	38	1.30	< 10	10	< 1	< 10	1.91	22	52	4.20	0.04	1.05	0.21	0.070	< 10	11	< 10
27390	0.5	< 0.5	1660	294	< 2	1700	4	28	5.14	< 10	21	< 1	< 10	2.88	52	147	3.68	0.03	3.25	0.35	0.003	< 10	3	< 10
27391	< 0.2	< 0.5	190	446	< 2	39	< 2	37	1.25	< 10	9	< 1	< 10	1.87	20	47	3.98	0.04	1.00	0.20	0.068	< 10	11	< 10
27392	< 0.2	< 0.5	105	427	< 2	34	< 2	35	1.39	< 10	10	< 1	< 10	1.89	20	54	4.05	0.04	1.02	0.20	0.068	< 10	11	< 10
27393	< 0.2	< 0.5	120	442	< 2	33	< 2	34	1.18	< 10	9	< 1	< 10	1.80	22	45	4.12	0.04	0.98	0.20	0.073	< 10	11	< 10
27394	< 0.2	< 0.5	110	408	< 2	31	< 2	28	1.18	< 10	14	< 1	< 10	1.70	21	63	4.13	0.05	0.98	0.19	0.066	< 10	11	< 10
27395	0.2	< 0.5	6811	389	< 2	79	< 2	27	1.09	< 10	14	< 1	< 10	1.69	45	51	4.86	0.05	0.91	0.18	0.066	< 10	10	< 10
27396	< 0.2	< 0.5	111	435	< 2	32	< 2	29	1.21	< 10	15	< 1	< 10	1.83	21	62	4.17	0.05	1.01	0.20	0.068	< 10	11	< 10
27397	< 0.2	< 0.5	97	412	< 2	29	< 2	30	1.37	< 10	15	< 1	< 10	1.83	19	50	4.03	0.06	0.99	0.20	0.068	< 10	11	< 10
27398	< 0.2	< 0.5	111	448	< 2	35	< 2	34	1.24	< 10	10	< 1	< 10	1.84	21	49	4.10	0.05	1.02	0.21	0.068	< 10	11	< 10
27399	< 0.2	< 0.5	99	398	< 2	36	< 2	31	1.30	< 10	8	< 1	< 10	1.74	21	50	4.08	0.04	1.14	0.19	0.065	< 10	11	< 10
27400	0.9	1.8	8510	211	< 2	> 10000	5	39	0.44	< 10	29	< 1	< 10	0.36	513	29	31.9	0.10	0.15	0.09	0.048	< 10	3	< 10
27401	< 0.2	< 0.5	108	433	< 2	43	< 2	33	1.22	< 10	18	< 1	< 10	1.71	21	49	4.15	0.06	1.03	0.18	0.069	< 10	10	< 10
27402	< 0.2	< 0.5	153	475	< 2	38	< 2	30	1.43	< 10	10	< 1	< 10	1.95	22	50	4.30	0.04	1.02	0.17	0.065	< 10	9	< 10
27403	< 0.2	< 0.5	178	429	< 2	42	< 2	32	2.82	< 10	16	< 1	< 10	3.08	21	37	3.48	0.05	1.01	0.37	0.074	< 10	8	< 10
27404	< 0.2	< 0.5	216	438	< 2	43	< 2	31	1.16	< 10	11	< 1	< 10	1.84	25	61	4.22	0.05	0.95	0.18	0.084	< 10	10	< 10
27405	< 0.2	< 0.5	131	440	< 2	41	< 2	32	1.23	< 10	12	< 1	< 10	1.92	25	49	4.22	0.05	1.11	0.19	0.068	< 10	11	< 10
27406	< 0.2	< 0.5	60	449	< 2	31	< 2	35	1.21	< 10	10	< 1	< 10	1.86	18	47	3.98	0.05	1.08	0.18	0.063	< 10	11	< 10
27407	< 0.2	< 0.5	86	384	< 2	34	< 2	32	1.12	< 10	17	< 1	< 10	1.68	21	51	3.96	0.07	1.01	0.19	0.065	< 10	11	< 10
27408	< 0.2	< 0.5	136	475	< 2	44	< 2	37	1.37	< 10	13	< 1	< 10	1.95	25	62	4.83	0.06	1.23	0.24	0.063	< 10	13	< 10
27409	< 0.2	< 0.5	127	443	< 2	37	< 2	34	1.48	< 10	14	< 1	< 10	1.93	26	66	4.72	0.06	1.20	0.20	0.066	< 10	11	< 10
27410	< 0.2	< 0.5	4	13	< 2	1	< 2	2	0.03	10	8	< 1	< 10	0.05	1	3	0.08	0.01	0.02	0.01	0.005	< 10	< 1	< 10
27411	< 0.2	< 0.5	111	513	< 2	37	< 2	36	1.48	< 10	15	< 1	< 10	2.00	23	66	4.79	0.07	1.25	0.24	0.070	< 10	13	< 10
27412	< 0.2	< 0.5	94	463	< 2	33	< 2	32	1.66	< 10	20	< 1	< 10	1.98	21	51	4.42	0.07	1.19	0.20	0.066	< 10	11	< 10
27413	< 0.2	< 0.5	90	424	< 2	35	< 2	32	1.66	< 10	42	< 1	< 10	1.92	20	58	4.35	0.09	1.17	0.20	0.064	< 10	11	< 10
27414	< 0.2	< 0.5	54	287	< 2	197	< 2	41	2.17	< 10	8	< 1	< 10	1.28	29	73	3.37	0.02	2.77	0.13	0.023	< 10	4	< 10
27415	< 0.2	< 0.5	212	273	< 2	47	< 2	23	1.21	< 10	23	< 1	< 10	1.49	19	44	3.26	0.02	1.07	0.17	0.071	< 10	9	< 10
27416	< 0.2	< 0.5	214	298	< 2	50	< 2	26	1.31	< 10	25	< 1	< 10	1.60	21	49	3.51	0.03	1.18	0.18	0.068	< 10	9	< 10
27417	< 0.2	< 0.5	197	381	< 2	36	< 2	33	1.91	< 10	165	< 1	< 10	1.66	19	46	4.12	0.06	1.72	0.22	0.078	< 10	10	< 10
27418	< 0.2	< 0.5	171	377	< 2	24	< 2	30	1.85	< 10	27	< 1	< 10	1.49	16	39	3.43	0.04	1.78	0.19	0.064	< 10	8	< 10
27419	0.2	0.8	412	478	< 2	510	5	70	2.68	< 10	9	< 1	< 10	1.34	53	160	4.63	0.01	3.05	0.07	0.017	< 10	2	< 10
27420	0.6	0.5	1540	286	< 2	1610	5	26	4.93	< 10	20	< 1	< 10	2.78	50	141	3.43	0.03	3.14	0.34	0.003	< 10	3	< 10
27421	< 0.2	< 0.5	340	344	< 2	383	16	58	1.73	< 10	6	< 1	< 10	7.50	54	116	5.06	< 0.01	2.26	0.02	0.008	< 10	1	< 10
27422	< 0.2	1.0	102	449	< 2	367	10	84	2.65	< 10	11	< 1	< 10	1.78	46	157	3.82	0.01	2.76	0.06	0.013	< 10	2	< 10
27423	< 0.2	< 0.5	273	210	< 2	216	< 2	28	3.73	< 10	38	< 1	< 10	2.42	30	296	3.21	0.13	3.51	0.10	0.011	< 10	2	< 10
27424	< 0.2	< 0.5	73	197	2	268	< 2	37	3.69	< 10	82	< 1	< 10	1.37	40	422	4.13	0.32	5.20	0.06	0.012	< 10	2	< 10
27425	< 0.2	< 0.5	86	211	< 2	277	< 2	29	2.36	< 10	8	< 1	< 10	1.14	33	142	2.71	0.01	3.11	0.08	0.012	< 10	2	< 10
27426	< 0.2	< 0.5	61	251	< 2	245	10	31	2.78	< 10	10	< 1	< 10	1.53	28	135	2.95	0.02	3.13	0.10	0.007	< 10	2	< 10
27427	< 0.2	< 0.5	185	379	< 2	54	4	41	1.83	< 10	30	< 1	< 10	1.84	24	56	3.63	0.04	1.33	0.19	0.041	< 10	8	< 10
27428	< 0.2	< 0.5	136	368	< 2	52	4	28	1.79	< 10	16	< 1	< 10	1.91	20	60	3.28	0.04	1.22	0.21	0.040	< 10	9	< 10
27429	< 0.2	< 0.5	125	358	< 2	50	11	49	1.54	< 10	19	< 1	< 10	1.67	20	51	3.41	0.07	1.16	0.15	0.042	< 10	8	< 10
27430</																								

Activation Laboratories Ltd. Report: A08-4036

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27431	< 0.2	< 0.5	101	384	< 2	50	3	28	1.33	< 10	9	< 1	< 10	1.72	19	54	3.15	0.04	1.09	0.19	0.042	< 10	9	< 10
27432	< 0.2	< 0.5	130	385	< 2	48	17	30	1.66	< 10	11	< 1	< 10	2.04	19	63	3.43	0.03	1.18	0.19	0.043	< 10	8	< 10
27433	< 0.2	< 0.5	90	359	< 2	41	2	24	2.45	< 10	12	< 1	< 10	2.45	20	84	3.35	0.02	1.09	0.28	0.038	< 10	7	< 10
27434	0.2	< 0.5	167	364	< 2	89	< 2	32	2.53	< 10	8	< 1	< 10	2.87	22	157	3.68	0.01	1.48	0.16	0.035	< 10	7	< 10
27435	< 0.2	< 0.5	17	160	< 2	118	6	17	5.25	< 10	13	< 1	< 10	4.17	14	360	1.90	0.02	1.47	0.49	0.005	< 10	2	< 10
27436	< 0.2	< 0.5	19	151	< 2	93	2	17	5.55	< 10	13	< 1	< 10	4.75	14	192	1.77	0.02	1.46	0.61	0.007	< 10	3	< 10
27765	< 0.2	< 0.5	92	219	< 2	83	< 2	20	5.06	< 10	13	< 1	< 10	3.76	13	282	2.09	0.02	1.64	0.60	0.009	< 10	3	< 10
27785	< 0.2	< 0.5	123	141	< 2	72	< 2	13	5.25	< 10	13	< 1	< 10	4.28	11	160	1.39	0.01	1.11	0.86	0.009	< 10	3	< 10
27462	< 0.2	< 0.5	164	97	< 2	36	< 2	23	2.72	< 10	90	< 1	< 10	1.69	28	95	4.10	0.54	1.75	0.27	0.092	< 10	8	< 10
27463	< 0.2	< 0.5	74	93	< 2	24	2	12	3.18	< 10	24	< 1	< 10	2.66	16	61	1.85	0.17	0.82	0.41	0.065	< 10	7	< 10
27484	0.2	0.5	678	373	< 2	84	2	31	2.62	< 10	47	< 1	< 10	2.40	89	78	8.67	0.40	1.48	0.27	0.086	< 10	8	< 10
27620	0.5	0.5	1530	295	< 2	1660	4	28	4.69	< 10	19	< 1	< 10	2.89	53	143	3.55	0.03	3.20	0.34	0.003	< 10	3	< 10
27621	0.2	< 0.5	52	128	< 2	11	3	20	0.48	21	10	1	86	0.25	2	54	0.43	0.22	0.18	0.03	0.068	< 10	2	28
27622	1.4	0.7	1120	325	< 2	424	18	137	3.52	< 10	46	2	< 10	1.89	31	238	4.31	0.99	1.95	0.28	0.015	< 10	9	38

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27376	60	0.05	29	< 10	1	1	0.142
27380	1	< 0.01	1	< 10	1	4	0.019
27381	38	0.14	80	< 10	3	2	0.199
27382	11	0.15	111	< 10	3	3	0.319
27383	13	0.13	86	< 10	4	2	0.101
27384	30	0.15	97	< 10	5	3	0.774
27385	7	0.14	106	< 10	10	5	0.177
27388	6	0.13	119	< 10	11	4	0.231
27387	7	0.13	120	< 10	11	4	0.253
27388	6	0.14	116	< 10	11	3	0.187
27389	5	0.14	119	< 10	12	4	0.174
27390	69	0.02	33	< 10	< 1	1	0.513
27391	6	0.13	114	< 10	12	3	0.175
27392	8	0.13	119	< 10	11	3	0.176
27393	5	0.13	120	< 10	12	4	0.242
27394	5	0.13	130	< 10	12	4	0.216
27395	4	0.13	114	< 10	11	4	0.880
27396	5	0.12	120	< 10	12	4	0.200
27397	10	0.15	130	< 10	12	4	0.157
27398	6	0.14	116	< 10	11	4	0.200
27399	5	0.16	127	< 10	11	4	0.187
27400	16	0.07	57	< 10	14	15	5.458
27401	6	0.15	117	< 10	11	4	0.178
27402	19	0.21	110	< 10	11	3	0.374
27403	55	0.24	93	< 10	13	3	0.336
27404	7	0.17	95	< 10	14	4	0.516
27405	8	0.14	122	< 10	11	4	0.319
27405	5	0.14	129	< 10	11	3	0.131
27407	4	0.15	132	< 10	11	4	0.191
27408	5	0.15	146	< 10	12	4	0.308
27409	7	0.15	140	< 10	12	4	0.749
27410	2	< 0.01	1	< 10	1	4	0.022
27411	6	0.15	142	< 10	13	4	0.211
27412	9	0.15	126	< 10	12	4	0.148
27413	9	0.16	123	< 10	11	3	0.143
27414	5	0.08	42	< 10	3	2	0.036
27415	8	0.12	96	< 10	11	4	0.253
27415	8	0.13	103	< 10	11	4	0.253
27417	11	0.16	122	< 10	11	4	0.166
27418	14	0.18	98	< 10	9	3	0.075
27419	7	0.05	31	< 10	2	3	0.872
27420	65	0.02	31	< 10	< 1	1	0.499
27421	12	0.04	29	< 10	3	3	1.951
27422	11	0.05	31	< 10	2	3	0.366
27423	28	0.08	37	< 10	1	1	0.055
27424	16	0.12	56	< 10	< 1	1	0.023
27425	5	0.04	21	< 10	1	1	0.047
27428	14	0.03	18	< 10	1	1	0.027
27427	19	0.14	86	< 10	6	2	0.272
27428	21	0.13	86	< 10	6	2	0.157
27429	14	0.14	88	< 10	6	2	0.193
27430	1	< 0.01	1	< 10	1	4	0.019

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27431	12	0.12	84	< 10	6	2	0.165
27432	22	0.12	87	< 10	6	2	0.181
27433	47	0.12	80	< 10	6	2	0.259
27434	15	0.11	78	< 10	5	2	0.150
27435	94	0.04	30	< 10	1	1	0.040
27436	110	0.03	21	< 10	1	1	0.055
27765	76	0.03	25	< 10	1	1	0.049
27786	97	0.02	18	< 10	1	1	0.091
27482	25	0.18	109	< 10	9	3	0.688
27483	32	0.13	99	< 10	7	4	0.247
27484	39	0.18	86	< 10	12	4	1.718
27620	69	0.02	32	< 10	< 1	1	0.519
27621	3	0.01	4	< 10	6	5	0.038
27622	52	0.06	44	< 10	4	10	1.053

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.0	3.3	1170	754	15	36	814	640	0.33	368	290	1	1430	0.80	9	7	25.0	0.02	0.14	0.06	0.043	70	1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	0.6	6330	138	375	41	45	70	2.61	108	21	1	20	0.99	14	58	4.00	1.44	1.71	0.13	0.128	< 10	7	< 10
GXR-4 Cert	4.00	0.660	6020	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.0	4.7	77	1020	< 2	18	768	572	3.18	11	1350	1	< 10	0.89	9	28	2.00	0.57	0.56	0.26	0.057	17	5	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.9	69	996	< 2	26	99	126	6.35	199	890	1	< 10	0.17	13	86	5.56	0.93	0.41	0.13	0.033	< 10	22	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas							2690																	
OREAS 13P Cert							2230																	
27351 Orig	< 0.2	< 0.5	105	444	< 2	42	< 2	36	1.25	< 10	9	< 1	< 10	1.85	19	47	3.95	0.04	1.00	0.20	0.068	< 10	11	< 10
27391 Dup	< 0.2	< 0.5	95	448	< 2	35	< 2	37	1.25	< 10	9	< 1	< 10	1.88	20	47	4.01	0.04	1.01	0.20	0.068	< 10	11	< 10
27405 Orig	< 0.2	< 0.5	134	440	< 2	41	< 2	31	1.25	< 10	11	< 1	< 10	1.92	25	49	4.20	0.05	1.10	0.19	0.066	< 10	11	< 10
27405 Dup	< 0.2	< 0.5	127	440	< 2	41	< 2	32	1.20	< 10	12	< 1	< 10	1.92	25	49	4.23	0.05	1.11	0.18	0.066	< 10	11	< 10
27418 Orig	< 0.2	< 0.5	171	376	< 2	23	< 2	30	1.85	< 10	28	< 1	< 10	1.51	16	38	3.48	0.04	1.78	0.19	0.065	< 10	8	< 10
27418 Dup	< 0.2	< 0.5	171	377	< 2	24	< 2	29	1.84	< 10	26	< 1	< 10	1.47	15	40	3.36	0.04	1.74	0.19	0.063	< 10	8	< 10
27432 Orig	< 0.2	< 0.5	127	383	< 2	46	18	30	1.85	< 10	11	< 1	< 10	2.03	19	52	3.40	0.03	1.17	0.19	0.042	< 10	8	< 10
27432 Dup	< 0.2	< 0.5	132	386	< 2	49	16	30	1.97	< 10	11	< 1	< 10	2.05	19	54	3.45	0.03	1.19	0.19	0.043	< 10	8	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	188		78	140	24	13	0.217
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	80		86	13	12	10	1.995
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	98		50	< 10	11	10	0.039
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	31		170	< 10	6	4	0.019
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
27351 Orig	6	0.13	113	< 10	11	3	0.174
27391 Dup	6	0.13	115	< 10	12	3	0.176
27405 Orig	6	0.14	122	< 10	11	4	0.319
27405 Dup	6	0.14	121	< 10	11	4	0.320
27418 Orig	14	0.16	99	< 10	9	3	0.077
27418 Dup	14	0.17	97	< 10	9	3	0.074
27432 Orig	22	0.12	86	< 10	6	2	0.177
27432 Dup	22	0.12	88	< 10	6	2	0.185
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 14-Jul-08
Invoice No.: A08-4037
Invoice Date: 19-Aug-08
Your Reference: DOSSIER #22781

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

107 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4037**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4037 rev 2

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
27787	< 0.2	< 0.5	176	135	< 2	70	< 2	14	5.16	< 10	14	< 1	< 10	3.73	11	120	1.16	0.02	0.74	0.010	< 10	3	< 10	
27788	< 0.2	< 0.5	149	97	< 2	62	3	11	6.45	< 10	15	< 1	< 10	4.60	9	122	0.96	0.01	0.66	0.83	0.005	< 10	2	< 10
27789	< 0.2	< 0.5	122	81	< 2	49	< 2	8	5.20	< 10	13	< 1	< 10	3.80	7	118	0.78	< 0.01	0.81	0.74	0.005	< 10	5	< 10
27790	0.6	< 0.5	1600	300	< 2	1640	5	28	5.50	< 10	21	< 1	< 10	2.79	49	144	3.73	0.03	3.31	0.32	0.003	< 10	3	< 10
27791	< 0.2	< 0.5	101	78	< 2	35	2	8	4.98	< 10	13	< 1	< 10	3.91	6	122	0.83	< 0.01	0.72	0.71	0.004	< 10	2	< 10
27792	< 0.2	< 0.5	62	81	< 2	30	< 2	8	5.33	< 10	13	< 1	< 10	3.77	5	128	0.78	< 0.01	0.65	0.74	0.005	< 10	2	< 10
27793	< 0.2	< 0.5	102	74	< 2	35	3	9	5.34	< 10	12	< 1	< 10	3.78	6	132	0.84	< 0.01	0.77	0.72	0.006	< 10	2	< 10
27194	< 0.2	< 0.5	98	89	< 2	54	< 2	12	5.10	< 10	10	< 1	< 10	3.45	9	140	1.13	0.01	1.12	0.60	0.004	< 10	2	< 10
27795	< 0.2	< 0.5	66	90	< 2	57	< 2	13	5.34	< 10	11	< 1	< 10	3.64	9	149	1.19	0.01	1.19	0.63	0.005	< 10	2	< 10
27796	< 0.2	< 0.5	9	89	< 2	43	< 2	11	4.24	< 10	10	< 1	< 10	2.86	8	163	1.05	0.01	1.08	0.64	0.003	< 10	3	< 10
27797	< 0.2	< 0.5	180	93	< 2	43	3	10	4.62	< 10	11	< 1	< 10	3.17	8	130	1.01	0.01	0.92	0.71	0.008	< 10	3	< 10
27798	< 0.2	< 0.5	21	108	< 2	42	< 2	11	4.01	< 10	11	< 1	< 10	2.88	8	128	1.12	0.01	0.84	0.61	0.007	< 10	3	< 10
27799	< 0.2	< 0.5	131	152	< 2	42	< 2	12	3.88	< 10	11	< 1	< 10	3.10	9	76	1.32	0.01	0.95	0.61	0.011	< 10	5	< 10
27800	1.0	1.8	8690	250	< 2	> 10000	9	39	0.44	< 10	7	< 1	< 10	0.33	491	31	32.8	0.11	0.15	0.07	0.045	< 10	3	< 10
27801	< 0.2	< 0.5	124	141	< 2	50	2	13	4.59	< 10	11	< 1	< 10	4.05	9	71	1.26	0.01	0.88	0.59	0.011	< 10	4	< 10
27802	< 0.2	< 0.5	130	353	< 2	45	< 2	27	2.69	< 10	84	< 1	< 10	2.38	21	67	3.59	0.19	1.35	0.35	0.039	< 10	10	< 10
27803	< 0.2	< 0.5	147	331	< 2	41	3	24	2.79	< 10	19	< 1	< 10	2.45	18	43	2.91	0.05	1.04	0.39	0.039	< 10	8	< 10
27804	0.3	< 0.5	427	358	< 2	56	3	32	3.47	< 10	40	< 1	< 10	2.73	27	68	3.90	0.05	1.63	0.28	0.040	< 10	7	< 10
27805	< 0.2	< 0.5	187	451	< 2	80	3	32	4.55	< 10	50	< 1	< 10	3.12	31	84	5.21	0.08	1.95	0.32	0.039	< 10	9	< 10
27805	< 0.2	< 0.5	133	376	< 2	58	3	28	4.60	< 10	90	< 1	< 10	3.34	29	66	4.53	0.13	1.75	0.30	0.040	< 10	9	< 10
27807	0.2	0.5	281	367	< 2	48	5	62	4.55	< 10	30	< 1	< 10	3.07	25	65	3.83	0.05	1.62	0.20	0.040	< 10	8	< 10
27808	0.2	< 0.5	153	340	< 2	174	4	33	5.07	< 10	31	< 1	< 10	3.42	22	278	3.39	0.09	2.39	0.31	0.005	< 10	3	< 10
27809	< 0.2	< 0.5	227	177	< 2	121	3	28	5.82	< 10	47	< 1	< 10	3.98	19	235	2.15	0.11	1.44	0.47	0.004	< 10	2	< 10
27810	< 0.2	< 0.5	4	10	< 2	1	< 2	2	0.04	< 10	8	< 1	< 10	0.05	< 1	4	0.09	0.01	0.02	0.01	0.004	< 10	< 1	< 10
27811	< 0.2	< 0.5	283	222	< 2	124	3	26	5.05	< 10	67	< 1	< 10	3.37	22	432	2.83	0.18	1.94	0.35	0.008	< 10	3	< 10
27812	< 0.2	< 0.5	144	171	< 2	144	4	23	5.64	< 10	124	< 1	< 10	3.83	20	379	2.26	0.31	1.64	0.60	0.006	< 10	2	< 10
27813	0.3	< 0.5	329	211	< 2	183	4	24	4.95	< 10	81	< 1	< 10	3.37	24	273	2.66	0.17	1.77	0.40	0.009	< 10	3	< 10
27814	< 0.2	< 0.5	94	158	< 2	112	5	18	4.59	< 10	19	< 1	< 10	3.46	14	179	1.69	0.08	1.20	0.34	0.007	< 10	2	< 10
27815	0.5	< 0.5	719	207	< 2	183	6	34	5.59	< 10	45	< 1	< 10	3.67	21	398	3.15	0.25	1.94	0.49	0.006	< 10	3	< 10
27815	< 0.2	< 0.5	125	347	< 2	43	4	28	4.01	< 10	14	< 1	< 10	3.54	18	88	3.03	0.05	1.18	0.37	0.037	< 10	8	< 10
27817	< 0.2	< 0.5	226	425	< 2	62	6	38	2.78	< 10	20	< 1	< 10	2.68	32	68	4.02	0.07	1.37	0.34	0.041	< 10	10	< 10
27818	< 0.2	< 0.5	99	426	< 2	43	4	33	3.15	< 10	13	< 1	< 10	2.90	20	81	3.44	0.04	1.19	0.34	0.037	< 10	10	< 10
27818	< 0.2	< 0.5	100	373	< 2	38	4	29	2.91	< 10	23	< 1	< 10	2.73	17	44	2.96	0.08	1.08	0.34	0.038	< 10	9	< 10
27820	0.9	< 0.5	1670	305	< 2	1720	4	28	5.47	< 10	20	< 1	< 10	2.79	53	146	3.80	0.03	3.38	0.31	0.003	< 10	3	< 10
27821	< 0.2	< 0.5	143	399	< 2	45	3	30	2.60	< 10	32	< 1	< 10	2.61	20	51	3.53	0.14	1.32	0.37	0.037	< 10	10	< 10
27822	< 0.2	< 0.5	106	262	< 2	30	4	57	2.13	< 10	22	< 1	< 10	2.23	24	55	2.32	0.08	0.82	0.16	0.036	< 10	6	< 10
27823	< 0.2	< 0.5	153	357	< 2	52	8	28	4.01	< 10	63	< 1	< 10	3.60	21	49	3.64	0.13	1.23	0.38	0.039	< 10	11	< 10
27824	< 0.2	< 0.5	84	280	< 2	55	5	27	3.24	< 10	145	< 1	< 10	2.53	18	65	2.90	0.34	1.47	0.40	0.032	< 10	7	< 10
27825	0.4	< 0.5	271	204	< 2	40	< 2	32	3.25	< 10	235	< 1	< 10	0.67	14	112	3.28	0.86	2.76	0.16	0.006	< 10	6	< 10
27825	1.1	0.7	673	238	2	24	< 2	38	3.53	< 10	316	< 1	< 10	0.11	17	96	3.74	1.07	2.62	0.09	0.010	< 10	7	< 10
27827	0.3	1.3	202	252	3	15	5	99	3.83	< 10	222	< 1	< 10	0.61	12	86	4.32	1.26	2.55	0.19	0.015	< 10	9	< 10
27828	0.4	< 0.5	561	174	< 2	24	4	34	4.03	< 10	104	< 1	< 10	1.20	12	63	4.58	1.10	2.53	0.21	0.010	< 10	5	< 10
27829	1.8	1.2	1200	242	< 2	64	< 2	43	3.24	< 10	227	< 1	< 10	0.08	17	71	4.13	0.94	2.55	0.08	0.012	< 10	9	< 10
27830	< 0.2	< 0.5	4	10	< 2	< 1	< 2	1	0.03	< 10	11	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.01	0.004	< 10	< 1	< 10
27831	2.1	0.8	1280	88	< 2	52	7	25	3.11	< 10	163	< 1	< 10	1.33	12	141	2.01	0.45	1.68	0.28	0.011	< 10	3	< 10
27832	0.7	< 0.5	556	116	< 2	255	12	18	5.91	< 10	14	< 1	< 10	4.66	25	73	1.33	0.02	0.85	0.26	0.011	< 10	2	< 10
27833	1.2	< 0.5	869	161	< 2	113	12	15	5.13	< 10	11	< 1	< 10	4.28	16	111	1.47	0.01	1.12	0.22	0.061	< 10	3	< 10
27834	0.2	< 0.5	210	148	< 2	324	5	25	2.59	< 10	7	< 1	< 10	1.05	38	144	2.40	0.01	2.94	0.07	0.009	< 10	2	< 10
27835	0.3	< 0.5	236	189	< 2	563	< 2	35	3.14	< 10	6	< 1	< 10	0.46	57	410	3.80	< 0.01	4.65	0.04	0.008	< 10	1	< 10
27836	< 0.2	< 0.5	136	200	< 2	354	< 2	36	2.85	< 10	6	< 1	< 10	0.38	40	210	3.27	< 0.01	4.17	0.04	0.006	< 10	< 1	< 10
27837	1.2	0.9	807	192	< 2	791	< 2	49	3.26	< 10	7	< 1	< 10	0.44	70	517	4.13	< 0.01	4.89	0.04	0.008	< 10	1	< 10
27838	0.9	0.6	607	227	< 2	562	8	35	3.91	< 10	6	< 1	< 10	1.4										

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
27839	4.3	0.8	2760	202	<2	481	8	37	2.92	<10	9	<1	<10	1.34	36	330	2.75	0.03	3.03	0.09	0.10	<10	2	<10	
27840	0.7	<0.5	1670	298	<2	1620	<2	27	5.43	<10	20	<1	<10	2.74	49	142	3.69	0.03	3.29	0.32	0.003	<10	3	<10	
27841	0.8	<0.5	597	96	<2	118	30	14	4.91	<10	7	<1	<10	3.71	11	162	1.09	0.02	1.08	0.31	0.008	<10	2	<10	
27842	5.2	1.8	3780	71	<2	316	26	31	4.45	<10	8	<1	<10	3.38	31	101	1.35	0.01	0.72	0.33	0.007	<10	2	<10	
27843	3.7	1.3	2620	57	<2	264	38	26	4.49	<10	9	<1	<10	3.23	36	85	1.81	0.01	0.44	0.48	0.015	<10	2	<10	
27844	4.2	1.4	1950	182	<2	526	74	52	4.05	<10	21	<1	<10	2.48	49	225	3.11	0.12	2.05	0.21	0.007	<10	2	<10	
27845	2.4	1.0	1130	249	<2	435	34	49	2.64	<10	43	<1	<10	1.42	43	561	3.67	0.31	3.01	0.10	0.017	<10	3	<10	
27846	2.0	1.3	1360	232	<2	1340	36	52	2.72	<10	37	<1	<10	0.69	85	1530	8.51	0.43	3.88	0.01	0.007	<10	2	<10	
27847	5.4	1.7	3220	183	<2	1430	34	61	2.37	<10	35	<1	<10	0.78	89	705	5.49	0.25	3.00	0.07	0.012	<10	2	<10	
27848	7.2	3.0	3440	314	<2	1100	69	92	2.85	<10	14	<1	<10	1.63	95	607	5.90	0.08	3.15	0.06	0.011	<10	2	<10	
27849	5.5	2.3	3010	191	<2	983	69	95	4.02	<10	12	<1	<10	2.32	71	278	5.08	0.04	2.23	0.26	0.011	<10	2	<10	
27850	0.9	1.7	8190	224	<2	>10000	7	37	0.41	<10	14	<1	<10	0.31	472	26	30.4	0.10	0.14	0.07	0.042	<10	3	<10	
27851	3.3	1.7	1610	92	<2	627	87	76	5.22	<10	12	<1	<10	3.99	41	164	2.77	0.01	0.66	0.44	0.010	<10	3	<10	
27852	2.1	2.5	1620	147	<2	1170	71	97	4.87	<10	10	<1	<10	3.72	82	142	6.26	0.01	0.82	0.40	0.007	<10	4	<10	
27853	1.6	2.1	1870	103	<2	2150	62	115	3.64	<10	12	<1	<10	2.65	374	167	12.7	0.02	0.63	0.36	0.010	<10	4	<10	
27854	9.2	7.1	9830	163	<2	892	94	584	4.41	<10	16	<1	<10	2.82	59	303	7.24	0.09	1.25	0.29	0.02	<10	3	<10	
27855	4.6	3.4	4730	109	<2	1190	104	321	5.26	<10	19	<1	<10	3.52	93	300	8.00	0.10	1.22	0.29	0.008	<10	3	<10	
27856	7.3	5.5	7990	97	<2	1540	89	406	4.42	<10	9	<1	<10	2.98	114	206	10	1	0.03	0.68	0.23	0.011	<10	3	<10
27857	10.0	9.0	>10000	86	<2	2720	98	487	4.75	<10	6	<1	<10	3.18	190	145	15.5	<0.01	0.39	0.25	0.010	<10	3	<10	
27858	8.4	6.4	5360	80	<2	2990	89	347	4.65	<10	6	<1	<10	3.14	223	68	17.2	<0.01	0.34	0.23	0.011	<10	3	<10	
27859	10.0	7.8	>10000	71	<2	3700	84	403	4.17	<10	5	<1	<10	2.52	253	95	21	1	<0.01	0.27	0.23	0.009	<10	2	<10
27860	<0.2	<0.5	9	8	<2	2	2	0.03	<10	8	<1	<10	0.04	1	2	0.06	0.01	0.02	0.01	0.004	<10	<1	<10		
27861	7.6	6.0	8060	63	<2	3610	92	310	4.62	<10	6	<1	<10	2.79	226	103	16.9	<0.01	0.21	0.26	0.008	<10	1	<10	
27862	6.9	7.1	8090	66	<2	3010	113	385	5.30	<10	8	<1	<10	3.39	222	131	11.4	0.02	0.28	0.30	0.009	<10	1	<10	
27863	2.3	3.2	2690	83	<2	2390	122	217	4.83	<10	19	<1	<10	2.97	123	197	13.9	0.13	0.60	0.34	0.005	<10	2	<10	
27864	5.8	4.9	6940	78	<2	2410	161	287	5.71	<10	14	<1	<10	3.53	131	168	14.4	0.09	0.49	0.35	0.006	<10	1	<10	
27865	9.8	9.1	>10000	138	<2	5920	95	469	2.07	<10	11	<1	<10	0.83	298	84	31.5	0.14	0.84	0.14	0.010	<10	2	<10	
27866	7.6	5.1	7220	225	<2	2030	94	380	3.35	<10	14	<1	<10	1.72	211	68	15.6	0.38	1.34	0.31	0.021	<10	4	<10	
27867	9.0	11.9	>10000	144	<2	5160	63	517	1.81	<10	11	<1	<10	0.73	305	32	29.7	0.17	0.88	0.19	0.014	<10	2	<10	
27868	6.5	5.9	4780	187	<2	2510	104	346	2.55	<10	21	<1	<10	1.50	202	29	17.4	0.14	0.72	0.30	0.016	<10	2	<10	
27869	16.2	15.2	>10000	424	<2	2190	103	944	2.69	<10	13	<1	<10	1.43	126	62	18.2	0.43	2.30	0.16	0.016	<10	7	<10	
27870	0.8	<0.5	1770	303	<2	1640	<2	28	5.59	<10	20	<1	<10	2.78	51	146	3.74	0.03	3.34	0.33	0.003	<10	3	<10	
27871	10.1	12.0	>10000	440	<2	5460	107	703	1.82	<10	6	<1	<10	0.71	279	68	30.6	0.13	1.70	0.04	0.008	<10	5	<10	
27872	2.8	8.6	3060	263	<2	977	14	618	0.67	<10	9	<1	<10	1.03	62	155	6.30	0.02	1.22	0.05	0.027	<10	2	<10	
27873	0.6	1.2	495	310	<2	380	6	81	0.56	<10	11	<1	<10	1.44	36	178	3.10	0.02	1.25	0.05	0.077	<10	3	<10	
27874	<0.2	0.5	85	315	<2	125	12	62	2.25	<10	244	<1	<10	0.73	16	142	3.07	0.37	2.38	0.07	0.024	<10	4	<10	
27875	<0.2	0.5	122	387	<2	23	6	167	3.20	<10	271	<1	<10	0.19	13	61	6.26	0.89	2.74	0.06	0.033	<10	8	<10	
27876	<0.2	<0.5	76	282	5	17	7	96	2.04	<10	127	<1	<10	0.13	7	153	3.45	0.51	1.29	0.04	0.010	<10	4	<10	
27877	<0.2	<0.5	139	443	2	29	3	128	2.66	<10	143	<1	<10	0.26	9	96	3.78	0.61	1.66	0.06	0.032	<10	4	<10	
27878	<0.2	<0.5	5	375	3	9	3	119	2.42	<10	118	<1	<10	0.13	4	133	2.83	0.75	2.07	0.06	0.012	<10	2	<10	
27879	<0.2	<0.5	4	365	<2	6	3	74	2.35	<10	85	<1	<10	0.14	4	67	2.64	0.40	1.82	0.05	0.011	<10	2	<10	
27880	<0.2	<0.5	5	10	<2	<1	<2	2	0.04	<10	8	<1	<10	0.04	<1	2	0.06	0.01	0.02	0.01	0.004	<10	<1	<10	
27881	<0.2	<0.5	34	237	<2	9	3	71	1.56	<10	82	<1	<10	0.06	4	95	2.48	0.46	1.53	0.03	0.008	<10	1	<10	
27882	0.3	0.8	209	439	3	16	5	135	1.94	<10	53	<1	<10	0.24	37	120	7.19	0.45	1.51	0.03	0.008	<10	2	<10	
27883	<0.2	0.8	283	810	<2	62	4	148	2.65	<10	22	<1	<10	1.91	29	117	6.48	0.11	2.05	0.16	0.039	<10	11	<10	
27884	<0.2	0.5	185	936	<2	59	3	118	2.38	<10	20	<1	<10	1.71	23	110	4.72	0.06	1.90	0.07	0.036	<10	6	<10	
27885	<0.2	0.6	86	729	<2	60	<2	139	2.70	<10	76	<1	<10	1.53	24	92	6.13	0.19	2.41	0.13	0.046	<10	12	<10	
27886	<0.2	1.0	66	781	<2	66	<2	383	4.03	<10	182	<1	<10	1.34	24	92	8.32	0.70	3.02	0.21	0.073	<10	13	<10	
27887	<0.2	0.8	52	1110	<2	47	<2	188	3.67	<10	45	<1	<10	0.73	29	79	8.62	0.14	3.55	0.06	0.058	<10	13	<10	
27888	<0.2	0.8	116	611	<2	40	<2	208	2.30	<10	37	<1	<10	1.11	33	103	7.10	0.12	1.67	0.03	0.076	<10	9	<10	
27889	<0.2	0.5	155	619	<2	38	<2	168	2.62	<10	137	<1	<10	1.47	27	98	5.38	0.40	2.03	0.10	0.070	<10	16	<10	
27890	0.7	<0.5	1060	305	<2	1670	<2	27	5.57	<10	21	<1	<10	2.82	51	146	3.83	0.03	3.37	0.33	0.003	<10	3	<10	

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27891	< 0.2	0.5	101	747	< 2	56	< 2	154	3.26	< 10	199	< 1	< 10	1.31	34	100	7.16	0.82	2.76	0.07	0.057	< 10	17	< 10
27892	< 0.2	0.5	76	836	< 2	66	< 2	85	2.64	< 10	83	< 1	< 10	2.28	22	117	4.97	0.19	2.36	0.07	0.068	< 10	10	< 10
27893	0.9	0.7	508	775	< 2	60	11	127	2.98	< 10	35	< 1	< 10	1.67	28	105	5.74	0.24	1.98	0.05	0.052	< 10	10	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27787	85	0.03	18	< 10	< 1	< 1	0.139
27788	123	0.01	13	< 10	< 1	< 1	0.096
27789	101	0.01	13	< 10	< 1	< 1	0.068
27790	74	0.02	34	< 10	< 1	1	0.492
27791	52	0.01	12	< 10	< 1	< 1	0.042
27792	104	0.01	12	< 10	< 1	< 1	0.033
27793	102	0.02	13	< 10	< 1	< 1	0.038
27794	85	0.01	13	< 10	< 1	< 1	0.031
27795	88	0.02	14	< 10	< 1	< 1	0.033
27796	80	0.02	16	< 10	< 1	< 1	0.020
27797	88	0.02	17	< 10	< 1	< 1	0.047
27798	79	0.02	19	< 10	< 1	< 1	0.023
27799	75	0.04	35	< 10	1	< 1	0.042
27800	15	0.09	59	< 10	15	16	7.019
27801	76	0.04	33	< 10	1	< 1	0.049
27802	48	0.13	97	< 10	7	2	0.160
27803	54	0.09	75	< 10	5	1	0.165
27804	32	0.11	96	< 10	6	1	0.290
27805	39	0.13	116	< 10	7	2	0.282
27805	38	0.17	112	< 10	6	1	0.241
27807	24	0.14	107	< 10	7	1	0.271
27808	34	0.08	38	< 10	< 1	< 1	0.142
27809	49	0.04	23	< 10	< 1	< 1	0.168
27810	2	< 0.01	< 1	< 10	< 1	3	0.019
27811	36	0.08	42	< 10	< 1	< 1	0.200
27812	39	0.07	39	< 10	< 1	< 1	0.081
27813	38	0.07	38	< 10	< 1	< 1	0.161
27814	51	0.04	20	< 10	< 1	< 1	0.057
27815	71	0.09	46	< 10	< 1	< 1	0.124
27816	65	0.12	76	< 10	6	1	0.143
27817	40	0.13	100	< 10	7	2	0.326
27818	59	0.12	91	< 10	7	2	0.188
27819	61	0.10	80	< 10	6	1	0.122
27820	73	0.02	34	< 10	< 1	< 1	0.513
27821	48	0.12	94	< 10	7	2	0.128
27822	49	0.20	66	< 10	7	2	0.161
27823	119	0.11	97	< 10	7	1	0.220
27824	79	0.13	70	< 10	4	1	0.070
27825	23	0.07	27	< 10	2	2	0.079
27826	9	0.09	18	< 10	2	2	0.185
27827	18	0.15	29	< 10	3	2	0.245
27828	21	0.11	18	< 10	4	3	0.696
27829	10	0.10	21	< 10	2	3	0.407
27830	1	< 0.01	< 1	< 10	< 1	3	0.018
27831	28	0.08	22	< 10	3	2	0.300
27832	60	0.01	13	< 10	1	< 1	0.299
27833	79	0.03	24	< 10	2	< 1	0.184
27834	19	0.02	17	< 10	< 1	< 1	0.119
27835	2	0.02	23	< 10	< 1	< 1	0.234
27836	< 1	0.02	18	< 10	< 1	< 1	0.106
27837	< 1	0.02	22	< 10	< 1	1	0.374
27838	25	0.02	20	< 10	< 1	1	0.285

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27639	23	0.03	21	< 10	< 1	1	0.365
27640	71	0.02	34	< 10	< 1	1	0.482
27641	100	< 0.01	13	< 10	< 1	< 1	0.113
27642	84	< 0.01	11	< 10	< 1	< 1	0.572
27643	86	< 0.01	9	< 10	2	1	0.884
27644	63	0.03	23	< 10	< 1	1	0.752
27645	19	0.07	41	< 10	2	2	0.458
27646	2	0.11	84	< 10	< 1	2	1.649
27647	7	0.07	35	< 10	< 1	2	1.691
27648	13	0.05	34	< 10	1	2	1.968
27649	53	0.03	19	< 10	1	2	1.709
27650	14	0.08	55	< 10	14	15	6.364
27651	82	0.02	15	< 10	1	1	1.111
27652	77	0.01	19	< 10	< 1	2	2.449
27653	58	0.02	29	< 10	1	4	6.165
27654	48	0.03	43	< 10	1	2	2.831
27655	65	0.03	45	< 10	< 1	2	3.056
27656	53	0.02	49	< 10	< 1	3	4.021
27657	64	0.01	52	< 10	< 1	4	6.519
27658	62	0.01	37	< 10	< 1	4	5.367
27659	51	< 0.01	42	< 10	< 1	4	7.463
27660	1	< 0.01	1	< 10	1	4	0.022
27661	57	< 0.01	44	< 10	< 1	4	7.200
27662	81	0.01	58	< 10	< 1	4	7.010
27663	48	0.03	71	< 10	< 1	3	5.367
27664	58	0.02	69	< 10	< 1	3	5.796
27665	15	0.03	84	< 10	< 1	7	6.249
27666	27	0.07	149	< 10	2	3	5.206
27667	17	0.04	99	< 10	< 1	6	6.980
27668	29	0.04	105	< 10	2	4	4.721
27669	27	0.07	120	< 10	1	4	5.743
27670	73	0.02	36	< 10	< 1	1	0.436
27671	13	0.03	86	< 10	2	7	6.712
27672	8	0.09	43	< 10	3	6	2.169
27673	7	0.13	44	< 10	3	6	6.838
27674	19	0.11	26	< 10	7	9	0.090
27675	16	0.11	67	< 10	8	7	0.172
27676	10	0.05	17	< 10	5	6	0.124
27677	12	< 0.01	36	< 10	11	9	0.064
27678	12	0.05	4	< 10	11	14	0.037
27679	11	0.05	5	< 10	13	13	0.014
27680	2	< 0.01	< 1	< 10	1	4	0.020
27681	5	0.04	2	< 10	12	13	0.016
27682	5	0.06	5	< 10	13	11	1.896
27683	25	0.18	126	< 10	8	2	0.171
27684	37	0.15	94	11	7	4	0.139
27685	26	0.19	119	< 10	10	3	0.079
27686	38	0.19	162	< 10	10	4	0.052
27687	12	0.21	199	< 10	11	3	0.067
27688	38	0.14	244	< 10	12	3	0.135
27689	24	0.18	168	< 10	14	3	0.291
27690	75	0.02	35	< 10	< 1	1	0.503

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27691	20	0.28	166	< 10	9	5	0.275
27692	34	0.22	92	< 10	13	6	0.250
27693	13	0.20	112	< 10	9	5	0.291

Activation Laboratories Ltd. Report: A08-4037 rev 2

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GXR-1 Meas	26.9	3.3	1210	820	15	36	639	656	0.34	393	279	1	1480	0.81	8	7	27.0	0.03	0.14	0.06	0.043	81	1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-1 Meas	30.1	3.4	1200	892	15	36	596	640	0.33	384	237	<1	1490	0.83	9	6	25.6	0.03	0.14	0.06	0.037	78	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.62	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0620	0.0650	122	1.68	54.0
GXR-4 Meas	3.3	0.7	6620	146	335	41	45	69	2.87	107	31	1	19	0.96	16	56	4.00	1.47	1.70	0.14	0.128	<10	6	<10
GXR-4 Cert	4.20	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.68	0.964	0.120	4.80	7.70	5.60
GXR-4 Meas	3.9	0.5	6280	134	347	40	43	64	2.59	101	26	1	<10	0.92	16	56	3.59	1.43	1.72	0.11	0.120	<10	7	<10
GXR-4 Cert	4.20	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.68	0.964	0.120	4.80	7.70	5.60
GXR-2 Meas	17.1	4.5	77	967	<2	18	731	514	3.18	10	1200	1	<10	0.78	9	26	2.00	0.54	0.52	0.25	0.056	28	4	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	36.0	1.86	1.37	0.860	0.556	0.105	49.0	6.88	1.70
GXR-2 Meas	20.5	4.4	80	381	<2	16	726	533	3.03	13	959	1	<10	0.70	10	25	2.18	0.52	0.50	0.19	0.055	26	4	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	36.0	1.86	1.37	0.860	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	72	1040	<2	24	96	123	6.72	244	891	1	<10	0.15	14	87	6.61	0.94	0.42	0.13	0.034	<10	21	<10
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	3.8	96.0	5.58	1.87	0.609	0.104	0.0360	3.80	27.6	1.70
GXR-6 Meas	0.3	0.8	73	1010	<2	25	94	120	6.83	233	890	<1	<10	0.15	15	85	6.85	0.91	0.41	0.12	0.031	<10	22	<10
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	3.8	96.0	5.58	1.87	0.609	0.104	0.0360	3.80	27.6	1.70
OREAS 13P Meas			2680			2300																		
OREAS 13P Cert			2500			2260																		
OREAS 13P Meas			2890			2330																		
OREAS 13P Cert			2500			2260																		
27766 Orig	< 0.2	< 0.5	129	149	< 2	44	< 2	11	3.88	< 10	11	< 1	< 10	3.11	9	76	1.32	0.01	0.95	0.61	0.011	< 10	6	< 10
27769 Dup	< 0.2	< 0.5	132	155	< 2	41	< 2	12	3.97	< 10	10	< 1	< 10	3.08	9	76	1.31	0.01	0.95	0.61	0.012	< 10	6	< 10
27813 Orig	0.3	< 0.5	328	210	< 2	183	5	23	4.60	< 10	61	< 1	< 10	3.36	24	273	2.64	0.17	1.78	0.39	0.009	< 10	3	< 10
27813 Dup	0.3	< 0.5	330	213	< 2	184	3	24	4.69	< 10	60	< 1	< 10	3.37	25	274	2.69	0.17	1.77	0.40	0.009	< 10	3	< 10
27825 Orig	1.0	0.6	681	240	2	24	< 2	37	3.68	< 10	321	< 1	< 10	0.11	17	96	3.77	1.07	2.64	0.09	0.010	< 10	7	< 10
27825 Dup	1.1	0.8	664	237	2	24	< 2	36	3.48	< 10	315	< 1	< 10	0.10	17	92	3.71	1.06	2.60	0.09	0.010	< 10	6	< 10
27840 Orig	0.7	< 0.5	1700	299	< 2	1640	< 2	27	5.45	< 10	20	< 1	< 10	2.75	48	143	3.70	0.03	3.30	0.32	0.003	< 10	3	< 10
27840 Dup	0.7	< 0.5	1650	297	< 2	1610	< 2	27	5.40	< 10	20	< 1	< 10	2.73	49	141	3.68	0.03	3.27	0.32	0.002	< 10	3	< 10
27853 Orig	2.3	3.2	2710	83	< 2	2390	118	215	4.61	< 10	19	< 1	< 10	2.93	124	195	13.9	0.13	0.59	0.33	0.005	< 10	2	< 10
27853 Dup	2.4	3.1	2670	82	< 2	2400	127	219	4.65	< 10	18	< 1	< 10	3.00	123	196	13.9	0.14	0.60	0.34	0.005	< 10	2	< 10
27877 Orig	< 0.2	< 0.5	140	445	2	29	2	127	2.67	< 10	144	1	< 10	0.28	9	95	3.80	0.81	1.99	0.06	0.032	< 10	4	< 10
27877 Dup	< 0.2	0.5	137	440	2	28	3	128	2.71	< 10	142	1	< 10	0.25	9	95	3.75	0.80	1.98	0.06	0.032	< 10	4	< 10
27877 Orig																								
27877 Dup																								
27880 Orig	0.7	0.6	1780	313	< 2	1710	< 2	29	5.70	< 10	21	< 1	< 10	2.91	53	160	3.91	0.03	3.44	0.33	0.093	< 10	3	< 10
27880 Dup	0.8	< 0.5	1630	298	< 2	1640	4	28	5.44	< 10	22	< 1	< 10	2.73	49	142	3.76	0.03	3.30	0.32	0.093	< 10	3	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Mess	198		78	162	24	14	0.227
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-1 Mess	170		82	183	24	14	0.204
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Mess	83		85	17	12	11	1.979
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-4 Mess	76		87	11	12	10	1.924
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Mess	87		48	< 10	11	11	0.037
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-2 Mess	82		49	< 10	11	12	0.037
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Mess	30		177	< 10	6	13	0.018
GXR-6 Cert	36.0		186	1.90	14.0	110	0.0160
GXR-6 Mess	32		179	< 10	6	10	0.017
GXR-6 Cert	36.0		186	1.90	14.0	110	0.0160
OREAS 13P Mess							
OREAS 13P Cert							
OREAS 13P Mess							
OREAS 13P Cert							
27766 Orig	75	0.04	35	< 10	1	< 1	0.042
27766 Dup	75	0.04	35	< 10	1	< 1	0.041
27813 Orig	38	0.07	38	< 10	< 1	< 1	0.169
27813 Dup	38	0.07	38	< 10	< 1	< 1	0.162
27825 Orig	9	0.06	18	< 10	2	3	0.164
27825 Dup	9	0.06	18	< 10	2	2	0.166
27840 Orig	71	0.02	34	< 10	< 1	1	0.486
27840 Dup	71	0.02	33	< 10	< 1	1	0.480
27853 Orig	48	0.03	71	< 10	< 1	3	5.283
27853 Dup	49	0.03	71	< 10	< 1	3	5.446
27877 Orig	12	0.10	36	< 10	10	9	0.068
27877 Dup	12	0.10	36	< 10	11	9	0.061
27877 Orig		< 0.01					
27877 Dup		< 0.01					
27880 Orig	77	0.02	36	< 10	< 1	1	0.519
27880 Dup	72	0.02	34	< 10	< 1	1	0.487
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 14-Jul-08
Invoice No.: A08-4038
Invoice Date: 04-Aug-08
Your Reference: DOSSIER #22784

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

65 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4038**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4038

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
24333	< 0.2	< 0.5	167	226	< 2	72	< 2	15	4.57	11	19	< 1	< 10	3.67	18	71	1.92	0.01	0.77	0.47	0.032	< 10	5	< 10	
24334	< 0.2	< 0.5	131	278	< 2	72	< 2	17	5.67	< 10	17	< 1	< 10	4.35	17	61	1.83	0.01	0.78	0.39	0.028	< 10	5	< 10	
24335	< 0.2	< 0.5	372	289	< 2	108	10	21	4.82	< 10	16	< 1	< 10	3.67	28	88	2.81	< 0.01	0.92	0.24	0.030	< 10	4	< 10	
24336	< 0.2	< 0.5	300	289	< 2	86	< 2	26	2.55	< 10	23	< 1	< 10	1.97	27	63	3.05	< 0.01	1.20	0.22	0.031	< 10	5	< 10	
24337	< 0.2	< 0.5	386	219	< 2	144	3	20	4.19	32	17	< 1	< 10	3.14	44	97	2.60	0.01	1.19	0.29	0.022	< 10	4	< 10	
24338	0.5	< 0.5	482	175	< 2	101	2	31	4.93	< 10	44	< 1	< 10	3.30	19	181	1.77	0.09	1.23	0.50	0.005	< 10	3	< 10	
24339	< 0.2	< 0.5	197	135	< 2	66	6	11	5.32	< 10	19	< 1	< 10	3.80	10	120	1.07	0.02	0.93	0.54	0.026	< 10	2	< 10	
24340	2.4	< 0.5	1960	295	< 2	1040	< 2	24	5.90	< 10	20	< 1	< 10	2.75	45	193	3.26	0.03	3.11	0.31	0.003	< 10	3	< 10	
24341	< 0.2	< 0.5	154	218	< 2	16	< 2	32	2.60	< 10	424	< 1	< 10	0.08	8	96	2.91	0.79	1.50	0.05	0.008	< 10	7	< 10	
24362	1.0	0.8	936	252	< 2	29	< 2	42	3.68	< 10	283	< 1	< 10	0.25	16	96	3.90	0.96	2.11	0.09	0.011	< 10	8	< 10	
24363	1.8	1.1	1190	194	< 2	74	< 2	41	3.23	< 10	185	< 1	< 10	0.44	18	103	3.60	0.84	1.99	0.14	0.009	< 10	8	< 10	
24364	2.0	0.8	1320	284	< 2	391	3	29	4.73	< 10	47	< 1	< 10	2.18	39	231	5.91	0.30	2.51	0.16	0.007	< 10	6	< 10	
24365	0.8	< 0.5	413	73	< 2	78	6	9	8.43	< 10	16	< 1	< 10	5.74	10	89	0.88	0.03	0.47	0.65	0.015	< 10	2	< 10	
24366	0.3	< 0.5	179	112	< 2	63	4	6	0.89	< 10	10	< 1	< 10	5.13	12	149	1.06	0.01	0.75	0.54	0.007	< 10	4	< 10	
24367	0.3	< 0.5	191	109	< 2	75	6	10	0.65	< 10	13	< 1	< 10	4.87	14	103	1.16	0.02	0.79	0.50	0.010	< 10	4	< 10	
24368	3.8	0.8	1300	110	< 2	142	14	19	6.43	< 10	14	< 1	< 10	4.78	14	86	1.31	0.01	0.88	0.56	0.020	< 10	3	< 10	
24369	1.2	< 0.5	385	123	< 2	125	12	10	6.70	< 10	15	< 1	< 10	4.94	15	110	1.23	0.01	0.74	0.67	0.017	< 10	4	< 10	
24360	< 0.2	< 0.5	11	161	< 2	5	7	0.08	< 10	1670	< 1	< 10	8.01	< 1	48	0.10	< 0.01	4.66	0.02	0.020	< 10	< 1	< 10		
24381	0.3	< 0.5	243	122	< 2	193	12	8	8.59	< 10	21	< 1	< 10	4.88	22	119	1.47	0.01	0.71	0.60	0.014	< 10	3	< 10	
24382	1.1	< 0.5	410	119	< 2	148	11	11	6.35	< 10	139	< 1	< 10	4.81	22	128	1.48	0.03	0.78	0.60	0.011	< 10	3	< 10	
24383	0.2	< 0.5	100	120	< 2	108	13	17	0.06	< 10	54	< 1	< 10	4.47	14	123	1.34	0.06	0.92	0.47	0.008	< 10	3	< 10	
24384	2.4	0.9	2220	170	< 2	807	9	32	4.37	< 10	17	< 1	< 10	3.77	73	73	4.88	0.03	1.19	0.19	0.011	< 10	4	< 10	
24385	0.9	< 0.5	606	82	< 2	480	17	16	0.92	< 10	14	< 1	< 10	5.16	31	85	2.11	0.01	0.63	0.50	0.010	< 10	3	< 10	
24386	1.9	0.8	1960	56	< 2	1620	18	20	6.48	< 10	35	< 1	< 10	4.56	79	89	5.39	0.09	0.63	0.48	0.008	< 10	2	< 10	
24387	0.9	0.7	851	79	< 2	1290	17	24	5.33	< 10	33	< 1	< 10	3.70	46	91	4.38	0.05	0.65	0.38	0.008	< 10	3	< 10	
24388	1.2	0.6	771	120	< 2	248	30	19	5.63	< 10	16	< 1	< 10	4.29	23	96	1.85	0.03	0.77	0.35	0.010	< 10	3	< 10	
24389	1.0	0.8	454	107	< 2	432	47	28	8.90	< 10	32	< 1	< 10	4.77	28	150	2.48	0.08	0.94	0.54	0.011	< 10	2	< 10	
24370	0.6	< 0.5	1620	314	< 2	1600	3	25	5.74	< 10	20	< 1	< 10	2.88	49	140	3.40	0.03	3.24	0.32	0.003	< 10	3	< 10	
24371	2.0	1.0	1240	83	< 2	410	62	23	6.35	< 10	27	< 1	< 10	4.58	23	184	2.21	0.06	0.70	0.50	0.009	< 10	2	< 10	
24452	14.7	6.2	3810	65	< 2	828	128	72	6.53	< 10	16	< 1	< 10	4.78	47	125	2.77	0.03	0.52	0.48	0.009	< 10	3	< 10	
24453	16.0	11.0	4510	74	< 2	1210	169	117	5.34	< 10	31	< 1	< 10	4.2	3.61	110	216	5.87	0.20	0.81	0.44	0.022	< 10	2	< 10
24454	4.8	5.0	1780	108	< 2	1080	112	65	4.18	< 10	29	< 1	< 10	3.09	55	40	5.80	0.07	0.51	0.29	0.031	< 10	2	< 10	
24455	6.2	5.3	2650	95	< 2	786	62	117	2.37	< 10	30	< 1	< 10	0.92	77	65	5.71	0.52	1.45	0.19	0.029	< 10	4	< 10	
24456	1.6	2.1	1510	54	< 2	1160	74	50	4.77	< 10	24	< 1	< 10	3.27	78	108	5.52	0.10	0.57	0.33	0.006	< 10	2	< 10	
24457	3.5	3.0	2020	94	< 2	854	63	78	3.76	< 10	37	< 1	< 10	2.28	59	107	5.67	0.25	1.04	0.28	0.027	< 10	3	< 10	
24458	1.7	1.6	605	199	< 2	200	15	118	2.21	< 10	181	< 1	< 10	0.88	20	95	4.71	0.60	1.56	0.17	0.051	< 10	8	< 10	
24459	1.2	1.5	660	330	< 2	228	18	175	3.02	< 10	98	< 1	< 10	1.05	23	60	6.29	1.11	2.41	0.18	0.055	< 10	8	< 10	
24460	< 0.2	< 0.5	5	11	< 2	1	< 2	2	0.04	< 10	9	< 1	< 10	0.04	< 1	4	0.07	0.01	0.02	< 0.01	0.004	< 10	< 1	< 10	
24461	5.2	3.9	3110	266	< 2	348	47	203	2.66	< 10	46	< 1	< 10	1.54	32	60	5.97	0.35	1.47	0.19	0.063	< 10	5	< 10	
24543	9.2	3.2	7070	131	< 2	124	24	119	1.12	< 10	73	< 1	< 10	0.54	22	88	5.15	0.23	0.82	0.07	0.107	< 10	4	16	
24544	7.5	2.2	6810	161	< 2	149	8	88	1.25	< 10	76	< 1	< 10	0.55	21	66	5.06	0.31	0.82	0.05	0.107	< 10	5	18	
24545	2.7	1.3	2270	372	< 2	56	< 2	68	2.79	< 10	110	< 1	< 10	0.73	17	82	5.18	0.77	1.85	0.10	0.078	< 10	8	< 10	
24546	< 0.2	< 0.5	54	962	< 2	21	5	88	3.55	< 10	134	< 1	< 10	1.07	21	58	8.06	0.74	2.88	0.06	0.068	< 10	12	< 10	
24547	0.5	< 0.5	424	587	< 2	46	< 2	42	2.44	< 10	17	< 1	< 10	1.70	26	62	5.81	0.07	1.69	0.06	0.044	< 10	8	< 10	
24548	0.2	0.7	331	854	< 2	18	6	95	3.62	< 10	98	< 1	< 10	1.14	14	65	5.41	0.56	2.73	0.06	0.050	< 10	7	< 10	
24549	< 0.2	< 0.5	8	314	< 2	3	< 2	49	2.17	< 10	103	< 1	< 10	0.20	6	59	2.96	0.53	1.84	0.02	0.044	< 10	4	< 10	
24660	1.1	1.7	8120	241	< 2	> 10000	4	38	0.60	< 10	21	< 1	< 10	0.38	625	32	32.6	0.11	0.15	0.08	0.046	< 10	3	< 10	
24651	0.2	0.7	395	501	< 2	25	3	79	2.38	< 10	42	< 1	< 10	0.56	23	37	7.83	0.35	2.09	0.07	0.033	< 10	8	< 10	
24652	< 0.2	< 0.5	145	522	< 2	52	4	53	2.81	< 10	13	< 1	< 10	2.38	27	79	4.95	0.06	1.81	0.12	0.039	< 10	11	< 10	
24653	< 0.2	< 0.5	60	496	< 2	30	3	48	3.16	< 10	182	< 1	< 10	1.00	20	63	4.35	0.53	2.74	0.05	0.068	< 10	11	< 10	
24654	< 0.2	< 0.5	34	519	< 2	7	< 2	68	3.84	< 10	150	< 1	< 10	0.85	16	49	4.92	0.80	2.59	0.07	0.079	< 10	5	< 10	
24655	< 0.2	< 0.5	84	527	< 2	31	4	80	3.65	< 10	177	< 1	< 10	1.78	26	65	5.08	0.84	2.70	0.0					

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24555	< 0.2	< 0.5	91	378	< 2	20	3	73	2.37	< 10	97	< 1	< 10	1.49	19	75	4.28	0.48	1.62	0.02	0.022	< 10	9	< 10
24567	< 0.2	< 0.5	79	470	< 2	38	< 2	87	2.62	< 10	68	< 1	< 10	2.12	31	67	6.02	0.32	1.95	0.03	0.056	< 10	16	< 10
24568	< 0.2	< 0.5	90	384	< 2	16	4	39	2.16	< 10	58	< 1	< 10	1.81	16	65	3.91	0.20	1.44	0.02	0.028	< 10	5	< 10
24569	< 0.2	< 0.5	22	296	4	8	8	28	1.65	< 10	33	< 1	< 10	1.09	6	68	1.83	0.11	0.60	0.02	0.013	< 10	2	< 10
24580	< 0.2	< 0.5	3	117	< 2	2	4	6	0.05	< 10	606	< 1	< 10	6.20	< 1	56	0.12	< 0.01	3.20	0.01	0.003	< 10	< 1	< 10
24581	< 0.2	1.1	122	591	3	17	121	195	2.49	< 10	39	< 1	< 10	1.31	12	80	3.47	0.19	1.61	0.02	0.027	< 10	5	< 10
24736	< 0.2	< 0.5	13	334	< 2	96	< 2	20	3.61	< 10	13	< 1	< 10	4.52	20	329	2.33	0.01	2.11	0.04	0.004	< 10	3	< 10
24737	< 0.2	< 0.5	318	373	< 2	61	3	38	3.17	< 10	11	< 1	< 10	2.18	22	199	3.23	0.02	1.85	0.21	0.031	< 10	6	< 10
24775	3.4	3.6	2710	119	< 2	2050	66	317	2.67	< 10	32	< 1	< 10	1.16	107	50	14.2	0.40	1.20	0.26	0.016	< 10	4	< 10
30112	3.8	1.4	2430	77	< 2	1850	4	42	4.33	< 10	28	< 1	< 10	2.37	89	107	4.12	0.18	2.17	0.12	0.009	< 10	1	< 10
24823	< 0.2	< 0.5	121	458	< 2	65	8	43	2.19	< 10	14	< 1	< 10	1.84	22	113	3.59	0.05	1.48	0.23	0.031	< 10	8	< 10
26485	1.2	0.7	276	382	< 2	66	9	39	4.73	< 10	27	< 1	< 10	2.67	20	84	3.61	0.18	2.60	0.06	0.006	< 10	9	< 10
28821	24.5	10.4	5570	198	< 2	240	98	229	4.20	< 10	52	< 1	26	2.36	31	51	5.17	0.45	1.27	0.28	0.041	< 10	3	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24333	74	0.08	45	< 10	3	1	0.317
24334	85	0.07	41	< 10	3	< 1	0.270
24335	64	0.07	44	< 10	3	1	0.855
24336	32	0.08	56	20	3	2	0.909
24337	75	0.05	36	< 10	2	1	0.482
24338	59	0.03	26	< 10	< 1	< 1	0.188
24339	65	0.02	16	< 10	2	< 1	0.090
24340	64	0.01	34	< 10	< 1	1	0.478
24341	6	0.14	23	< 10	3	3	0.028
24362	11	0.12	31	< 10	2	2	0.340
24363	15	0.09	31	< 10	2	2	0.538
24364	35	0.07	51	< 10	5	3	1.975
24365	126	0.02	17	< 10	< 1	< 1	0.178
24366	103	0.02	24	< 10	< 1	< 1	0.126
24367	85	0.03	25	< 10	< 1	< 1	0.150
24368	116	0.04	29	< 10	2	< 1	0.349
24369	119	0.04	29	< 10	2	< 1	0.223
24360	181	< 0.01	6	< 10	< 1	< 1	0.107
24381	119	0.03	24	< 10	1	< 1	0.406
24382	110	0.03	25	< 10	1	< 1	0.390
24383	77	0.04	28	< 10	1	< 1	0.190
24384	46	0.11	67	< 10	2	2	1.859
24385	84	0.02	20	< 10	1	1	0.842
24386	80	0.02	20	< 10	< 1	2	2.956
24387	62	0.02	21	< 10	1	2	2.062
24388	77	0.02	17	< 10	2	1	0.634
24389	98	0.02	19	< 10	1	1	0.740
24370	68	0.02	35	< 10	< 1	1	0.497
24371	138	0.02	17	< 10	1	1	0.813
24452	63	0.02	21	< 10	< 1	1	1.390
24453	50	0.04	46	< 10	4	2	2.832
24454	39	0.05	34	< 10	5	3	2.536
24455	11	0.10	53	< 10	3	3	2.261
24456	28	0.02	35	< 10	1	2	2.869
24457	24	0.06	75	< 10	3	2	2.139
24458	12	0.15	114	< 10	6	3	0.588
24459	16	0.19	102	< 10	8	3	0.768
24460	1	< 0.01	< 1	< 10	< 1	3	0.019
24461	24	0.12	77	< 10	5	2	1.692
24543	9	0.10	134	< 10	9	4	0.939
24544	6	0.06	140	< 10	8	3	0.905
24545	12	0.14	79	< 10	10	5	0.325
24546	18	0.17	119	< 10	9	4	0.059
24547	12	0.10	110	< 10	7	3	0.855
24548	12	0.18	89	< 10	14	5	0.408
24549	5	0.10	8	< 10	12	10	0.077
24660	17	0.07	63	< 10	15	17	5.966
24651	14	0.11	61	< 10	7	5	2.030
24662	17	0.11	116	< 10	8	2	0.219
24653	16	0.16	92	< 10	10	3	0.107
24654	15	0.18	70	< 10	11	4	0.039
24655	11	0.23	163	< 10	10	4	0.298

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24555	10	0.15	76	< 10	14	11	0.453
24567	10	0.22	203	< 10	13	4	0.306
24558	8	0.12	53	< 10	15	8	0.359
24568	6	0.07	5	< 10	21	14	0.184
24560	94	< 0.01	5	< 10	< 1	< 1	0.067
24561	7	0.14	39	< 10	21	11	0.286
24736	9	0.04	36	< 10	1	1	0.037
24737	25	0.10	69	< 10	4	1	0.149
24775	18	0.07	130	< 10	1	4	3.270
30112	36	0.02	16	< 10	< 1	1	1.847
24823	31	0.11	88	< 10	5	2	0.203
28485	29	0.05	86	< 10	2	1	0.075
28821	45	0.09	44	< 10	7	3	1.706

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	28.5	3.4	1040	841	14	17	881	581	0.32	347	218	<1	1340	0.80	9	5	23.1	0.02	0.13	0.03	0.034	72	1	24
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.7	0.6	6310	135	331	35	41	58	2.75	98	32	1	24	0.90	15	53	3.36	1.36	1.63	0.10	0.116	<10	6	<10
GXR-4 Cert	4.00	0.660	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	21.4	4.7	85	1090	<2	16	778	568	3.45	15	1050	1	<10	0.75	10	25	2.15	0.53	0.52	0.13	0.058	30	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.7	66	1010	<2	18	94	115	7.14	236	906	<1	<10	0.16	15	79	5.04	0.85	0.39	0.06	0.031	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2500				2070										5.80							
OREAS 13P Cert			2500				2280										7.58							
24355 Ong	0.7	< 0.5	401	69	< 2	78	5	8	8.25	< 10	16	< 1	< 10	5.66	10	87	0.87	0.03	0.48	0.64	0.015	< 10	2	< 10
24355 Dup	0.8	< 0.5	425	77	< 2	79	6	9	8.57	< 10	17	< 1	< 10	5.83	11	92	0.89	0.03	0.47	0.66	0.015	< 10	2	< 10
24355 Ong	0.9	0.8	490	106	< 2	431	46	26	6.83	< 10	32	< 1	< 10	4.72	26	143	2.41	0.08	0.93	0.53	0.010	< 10	2	< 10
24355 Dup	1.1	0.8	467	108	< 2	433	48	26	6.98	< 10	32	< 1	< 10	4.82	26	168	2.60	0.08	0.94	0.54	0.011	< 10	2	< 10
24543 Ong	9.4	3.3	7210	132	< 2	127	26	123	1.15	< 10	75	< 1	< 10	0.56	23	86	5.25	0.23	0.83	0.07	0.109	< 10	4	16
24543 Dup	8.9	3.1	6920	131	< 2	120	23	116	1.10	< 10	71	< 1	< 10	0.53	22	87	5.05	0.23	0.80	0.06	0.106	< 10	4	15
24557 Ong	< 0.2	< 0.5	79	463	< 2	36	< 2	64	2.67	< 10	68	< 1	< 10	2.08	30	67	5.86	0.31	1.92	0.03	0.054	< 10	15	< 10
24557 Dup	< 0.2	< 0.5	79	477	< 2	39	< 2	70	2.96	< 10	69	< 1	< 10	2.16	32	68	6.15	0.32	1.98	0.03	0.056	< 10	16	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	157		76	177	21	13	0.198
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	71		83	15	11	9	1.807
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	86		52	< 10	11	11	0.037
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	31		176	< 10	7	14	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
24365 Orig	123	0.02	17	< 10	< 1	< 1	0.179
24365 Dup	129	0.02	17	< 10	< 1	< 1	0.177
24369 Orig	97	0.02	19	< 10	1	1	0.717
24369 Dup	99	0.02	19	< 10	1	1	0.763
24643 Orig	9	0.10	135	< 10	9	4	1.005
24643 Dup	8	0.10	132	< 10	8	4	0.873
24657 Orig	9	0.21	203	< 10	13	4	0.322
24657 Dup	10	0.22	203	< 10	13	4	0.330
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 14-Jul-08
Invoice No.: A08-4042
Invoice Date: 08-Aug-08
Your Reference: DOSSIER #22789

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

87 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4042**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4042

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
28575	< 0.2	< 0.5	112	67	< 2	29	5	7	5.94	< 10	14	< 1	< 10	4.51	4	106	0.63	< 0.01	0.51	0.64	0.004	< 10	2	< 10	
28677	< 0.2	< 0.5	76	55	< 2	26	6	7	5.66	< 10	14	< 1	< 10	4.48	5	77	0.56	< 0.01	0.46	0.63	0.003	< 10	2	< 10	
28678	< 0.2	< 0.5	162	89	< 2	36	4	7	5.12	< 10	13	< 1	< 10	3.89	6	101	0.82	< 0.01	0.63	0.66	0.007	< 10	5	< 10	
28679	< 0.2	< 0.5	95	71	< 2	41	6	8	5.74	< 10	12	< 1	< 10	4.33	7	96	0.77	0.01	0.64	0.64	0.004	< 10	3	< 10	
28680	< 0.2	< 0.5	5	168	< 2	3	3	14	0.08	< 10	204	< 1	< 10	9.18	< 1	18	0.06	< 0.01	4.90	0.03	0.003	< 10	< 1	< 10	
28681	< 0.2	< 0.5	104	82	< 2	44	6	12	5.87	< 10	16	< 1	< 10	4.36	9	114	1.11	0.05	0.57	0.52	0.003	< 10	2	< 10	
28682	< 0.2	< 0.5	7	98	< 2	140	2	26	5.62	< 10	89	< 1	< 10	3.18	20	260	2.16	0.45	2.75	0.31	0.008	< 10	3	< 10	
28683	0.2	< 0.5	3	104	< 2	99	2	18	4.61	< 10	32	< 1	< 10	2.81	12	242	1.47	0.12	1.71	0.48	0.004	< 10	2	< 10	
28684	< 0.2	< 0.5	52	94	< 2	27	5	10	5.16	< 10	11	< 1	< 10	3.96	5	94	0.83	0.02	0.78	0.59	0.006	< 10	3	< 10	
28685	< 0.2	< 0.5	63	141	< 2	37	6	13	5.34	< 10	10	< 1	< 10	4.05	7	117	1.18	0.02	1.03	0.61	0.006	< 10	4	< 10	
28728	0.5	< 0.5	301	99	< 2	107	14	19	8.41	< 10	25	< 1	< 10	4.59	13	150	1.32	0.16	1.05	0.60	0.008	< 10	2	< 10	
28727	0.4	< 0.5	201	103	< 2	75	16	13	6.25	< 10	15	< 1	< 10	4.58	10	125	1.00	0.05	0.75	0.64	0.008	< 10	3	< 10	
28728	0.2	< 0.5	125	96	< 2	42	17	10	5.47	< 10	11	< 1	< 10	4.11	7	109	0.77	0.01	0.63	0.60	0.005	< 10	2	< 10	
28729	0.5	< 0.5	297	128	< 2	52	16	12	5.37	< 10	10	< 1	< 10	4.05	8	120	0.96	0.01	0.74	0.59	0.008	< 10	3	< 10	
28731	0.3	< 0.5	176	110	< 2	35	22	11	5.90	< 10	8	< 1	< 10	4.50	7	109	0.88	0.01	0.65	0.56	0.008	< 10	3	< 10	
28732	0.3	< 0.5	196	113	< 2	66	26	15	6.60	< 10	7	< 1	< 10	6.05	11	118	1.07	0.02	0.81	0.48	0.010	< 10	3	< 10	
28733	0.7	0.5	480	151	< 2	343	9	49	3.69	< 10	30	< 1	< 10	1.79	41	153	3.02	0.29	2.94	0.15	0.008	< 10	2	< 10	
28734	0.9	0.8	644	217	< 2	486	13	57	3.16	< 10	14	< 1	< 10	1.64	42	176	3.35	0.11	2.69	0.13	0.016	< 10	2	< 10	
28492	< 0.2	< 0.5	48	56	< 2	50	4	10	6.01	< 10	16	< 1	< 10	4.41	6	123	0.77	0.02	0.55	0.58	0.002	< 10	2	< 10	
28493	< 0.2	< 0.5	37	55	< 2	37	< 2	7	5.65	< 10	15	< 1	< 10	4.08	5	106	0.63	0.02	0.57	0.62	0.005	< 10	2	< 10	
28494	< 0.2	< 0.5	188	70	< 2	91	4	10	5.98	< 10	15	< 1	< 10	4.37	10	107	0.81	< 0.01	0.50	0.75	0.017	< 10	2	< 10	
28766	2.9	1.4	2720	275	< 2	2180	107	87	3.65	< 10	7	< 1	< 10	2.30	124	172	10.6	0.01	1.54	0.23	0.011	< 10	3	< 10	
28767	0.6	1.3	436	320	< 2	385	92	133	4.27	< 10	9	< 1	< 10	3.02	23	191	4.22	0.02	1.52	0.22	0.019	< 10	7	< 10	
28768	< 0.2	< 0.5	75	252	< 2	42	101	67	4.65	< 10	10	< 1	< 10	3.66	11	101	2.00	0.02	1.13	0.32	0.015	< 10	8	< 10	
28770	0.6	< 0.5	1670	294	< 2	1620	2	27	5.58	< 10	20	< 1	< 10	2.76	49	140	3.62	0.03	3.25	0.33	0.003	< 10	3	< 10	
28771	8.4	5.1	5890	249	< 2	2810	108	387	2.84	< 10	7	< 1	< 10	1.73	187	218	15.1	< 0.01	1.06	0.14	0.009	< 10	3	< 10	
28772	1.8	0.9	670	94	< 2	718	199	171	5.83	< 10	7	< 1	< 10	4.29	35	280	4.70	0.01	0.80	0.33	0.013	< 10	4	< 10	
28773	3.5	2.7	2910	126	< 2	2200	126	198	3.64	< 10	6	< 1	< 10	2.59	119	320	11.7	< 0.01	0.68	0.21	0.011	< 10	5	< 10	
28774	1.7	1.3	871	82	< 2	622	261	139	6.73	< 10	8	< 1	< 10	4.88	33	302	3.78	< 0.01	0.42	0.43	0.010	< 10	3	< 10	
28775	6.6	4.7	4440	85	< 2	1440	242	336	5.41	< 10	13	< 1	< 10	3.41	55	370	6.30	0.03	0.65	0.38	0.008	< 10	1	< 10	
28760	< 0.2	< 0.5	31	165	< 2	11	7	10	0.12	< 10	124	< 1	< 10	9.36	< 1	26	0.12	< 0.01	6.08	0.03	0.003	< 10	< 1	< 10	
28825	0.7	< 0.5	312	88	< 2	84	20	17	7.65	< 10	31	< 1	< 10	6.52	7	97	0.92	0.04	0.64	0.63	0.011	< 10	2	< 10	
28627	< 0.2	< 0.5	47	84	< 2	56	14	10	6.75	< 10	48	< 1	< 10	4.94	8	106	0.92	0.07	0.51	0.64	0.012	< 10	2	< 10	
28826	< 0.2	< 0.5	87	113	< 2	57	16	12	5.86	< 10	67	< 1	< 10	4.33	12	124	1.36	0.04	0.64	0.63	0.016	< 10	4	< 10	
28825	0.7	< 0.5	449	219	< 2	147	17	21	4.65	< 10	18	< 1	< 10	3.64	32	88	3.62	0.02	1.02	0.35	0.031	< 10	6	< 10	
28830	< 0.2	< 0.5	13	147	< 2	5	18	12	0.11	< 10	63	< 1	< 10	7.29	< 1	15	0.13	< 0.01	4.00	0.03	0.006	< 10	< 1	< 10	
28831	0.5	< 0.5	238	116	< 2	192	40	21	5.82	< 10	13	< 1	< 10	4.31	17	95	1.43	0.01	0.77	0.54	0.011	< 10	3	< 10	
28632	< 0.2	< 0.5	92	92	< 2	51	23	9	5.60	< 10	12	< 1	< 10	4.17	9	100	0.97	0.01	0.65	0.59	0.010	< 10	3	< 10	
28633	0.4	< 0.5	163	97	< 2	86	22	12	5.67	< 10	12	< 1	< 10	4.22	14	87	1.10	0.01	0.63	0.48	0.019	< 10	3	< 10	
28834	< 0.2	< 0.5	116	98	< 2	80	21	9	5.19	< 10	12	< 1	< 10	3.93	9	89	0.93	0.01	0.64	0.57	0.012	< 10	3	< 10	
28635	0.3	< 0.5	156	80	< 2	117	22	9	6.25	< 10	13	< 1	< 10	4.78	15	65	1.05	0.01	0.61	0.55	0.014	< 10	3	< 10	
28866	2.4	3.4	1960	509	< 2	886	49	569	3.88	< 10	11	30	< 1	< 10	0.97	152	88	12.3	0.45	3.57	0.04	0.025	< 10	11	< 10
28667	13.5	10.3	> 10000	788	< 2	2130	147	712	3.46	< 10	31	17	< 1	< 10	2.18	282	66	20.5	0.06	2.87	0.02	0.019	< 10	10	< 10
28668	24.7	42.6	> 10000	620	< 2	6030	83	2020	2.52	< 10	16	< 1	< 10	1.16	213	36	30.3	0.07	1.58	0.01	0.020	< 10	6	25	
28869	19.9	37.2	> 10000	808	< 2	8920	69	1710	2.34	< 10	14	< 1	< 10	1.45	215	30	31.6	0.05	1.41	0.01	0.017	< 10	8	19	
28670	0.7	0.7	1710	288	< 2	1590	< 2	32	5.38	< 10	20	< 1	< 10	2.64	49	135	3.56	0.03	3.14	0.32	0.003	< 10	3	< 10	
28871	2.3	2.8	1710	722	< 2	367	21	253	3.38	< 10	43	< 1	< 10	0.90	29	64	6.28	0.16	3.07	0.02	0.076	< 10	8	< 10	
28872	0.4	0.9	383	676	< 2	47	32	195	3.21	< 10	92	< 1	< 10	0.85	12	85	8.31	0.50	2.77	0.08	0.018	< 10	8	< 10	
28873	0.6	1.1	405	545	< 2	107	14	270	3.51	< 10	102	< 1	< 10	0.48	55	77	7.26	0.60	2.78	0.07	0.077	< 10	10	< 10	
28874	0.8	0.9	1240	662	< 2	200	12	148	3.03	< 10	69	< 1	< 10	0.56	16	78	7.00	0.33	2.62	0.06	0.066	< 10	6	< 10	
28875	< 0.2	0.5	35	530	4	12	19	147	3.72	< 10	177	< 1	< 10	0.67	10	78	5.16	0.73	2.81	0.10	0.040	< 10	8	< 10	
28676	< 0.2	0.6	47	621	< 2	16	15	129	3.66	< 10	211	< 1	< 10	1.28	16	65	4.86	0.84	3.26	0.06	0.078	< 10	10	< 1	

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26877	< 0.2	0.8	82	842	< 2	30	11	140	3.32	< 10	242	< 1	< 10	1.17	14	73	4.63	0.85	2.64	0.07	0.060	< 10	10	< 10
26878	1.2	1.0	839	379	< 2	123	3	126	1.81	< 10	39	< 1	< 10	0.63	67	76	10.6	0.32	1.33	0.06	0.045	< 10	4	< 10
26879	0.7	1.8	725	532	3	67	7	315	2.48	< 10	40	< 1	< 10	0.60	43	81	13.0	0.88	1.90	0.04	0.030	< 10	5	< 10
26880	< 0.2	< 0.5	20	209	< 2	5	4	15	0.08	< 10	43	< 1	< 10	10.1	< 1	43	0.35	0.63	6.87	0.02	0.005	< 10	< 1	< 10
26881	< 0.2	0.6	21	937	3	12	7	130	3.15	< 10	178	< 1	< 10	1.03	9	89	4.06	0.89	2.69	0.06	0.025	< 10	7	< 10
26882	1.7	1.9	1600	360	< 2	44	22	330	2.32	< 10	52	< 1	< 10	0.36	14	133	4.88	0.39	2.28	0.02	0.066	< 10	5	< 10
26268	36.6	16.4	> 10000	426	< 2	2310	455	769	2.04	< 10	13	< 1	15	1.31	86	100	15.6	0.05	1.01	0.04	0.016	< 10	3	11
29299	28.6	20.7	> 10000	267	< 2	4940	468	859	2.20	< 10	25	< 1	21	1.19	269	76	25.0	0.09	0.76	0.14	0.016	< 10	2	14
29300	1.0	1.7	8940	244	< 2	> 10000	10	42	0.47	< 10	15	< 1	< 10	0.34	468	31	32.7	0.11	0.15	0.08	0.045	10	3	< 10
29301	49.4	28.1	> 10000	407	< 2	2190	966	1030	1.94	< 10	6	< 1	41	1.14	109	164	17.0	0.01	1.13	0.06	0.022	< 10	6	24
29302	29.7	27.8	> 10000	393	< 2	4720	838	988	2.08	< 10	14	< 1	37	1.32	228	88	27.9	0.10	1.27	0.06	0.018	< 10	5	28
29303	7.9	17.8	6690	266	< 2	4170	122	884	2.04	< 10	17	< 1	< 10	0.44	377	58	24.8	0.32	1.63	0.06	0.016	< 10	5	25
29304	5.0	4.0	4110	507	< 2	264	100	384	3.40	< 10	40	< 1	< 10	1.46	45	119	8.81	0.89	3.09	0.07	0.171	< 10	20	16
29305	0.6	1.2	540	504	< 2	52	44	149	3.05	< 10	104	< 1	< 10	1.33	31	97	6.88	0.63	2.40	0.08	0.112	< 10	15	< 10
29306	< 0.2	0.7	118	498	< 2	27	25	97	3.62	< 10	422	< 1	< 10	0.53	21	97	6.23	0.82	2.82	0.09	0.083	< 10	13	< 10
29307	0.7	0.8	89	516	< 2	49	87	77	2.63	< 10	64	< 1	< 10	1.30	20	120	4.06	0.23	2.11	0.08	0.044	< 10	9	< 10
30109	3.4	1.8	2230	102	< 2	2090	13	47	5.06	< 10	23	< 1	< 10	2.91	86	135	4.54	0.18	2.68	0.15	0.007	< 10	1	< 10
30110	1.0	1.6	9000	244	< 2	> 10000	7	40	0.48	< 10	14	< 1	< 10	0.35	604	32	33.9	0.11	0.16	0.08	0.046	< 10	3	< 10
30111	3.3	1.5	2340	90	< 2	2030	10	40	5.08	< 10	30	< 1	< 10	2.98	87	148	4.41	0.21	2.58	0.16	0.009	< 10	1	< 10
30113	2.3	1.2	1670	110	< 2	1860	3	45	2.85	< 10	47	< 1	< 10	1.00	116	263	4.86	0.34	3.30	0.08	0.008	< 10	2	< 10
30115	3.1	1.4	2310	82	< 2	1530	8	42	6.38	< 10	59	< 1	< 10	3.96	81	316	3.60	0.43	2.20	0.24	0.009	< 10	1	< 10
30116	0.6	0.5	454	82	< 2	638	11	20	5.25	< 10	39	< 1	< 10	3.54	36	240	1.95	0.26	1.59	0.21	0.023	< 10	1	< 10
30117	1.9	0.6	1240	50	< 2	891	13	28	7.48	< 10	59	< 1	< 10	6.02	43	361	2.26	0.38	1.48	0.33	0.009	< 10	1	< 10
30118	0.6	1.5	366	196	< 2	110	12	45	4.78	< 10	9	< 1	< 10	3.86	25	88	2.07	0.02	0.85	0.34	0.027	< 10	6	< 10
N#1	1.1	1.1	703	117	< 2	791	12	35	6.60	< 10	34	< 1	< 10	4.41	49	124	2.77	0.22	1.88	0.22	0.009	< 10	2	< 10
30129	5.9	2.7	3190	54	< 2	1480	29	47	6.67	< 10	14	< 1	< 10	4.87	63	66	2.60	< 0.01	0.34	0.63	0.009	< 10	2	< 10
30130	0.7	< 0.5	1620	292	< 2	1600	< 2	27	5.33	< 10	21	< 1	< 10	2.72	49	139	3.53	0.03	3.18	0.33	0.003	< 10	3	< 10
30131	9.2	4.1	5600	99	< 2	2450	20	73	5.61	< 10	10	< 1	< 10	4.20	134	56	4.72	0.01	0.67	0.35	0.005	< 10	3	< 10
30132	5.9	1.8	3580	126	< 2	1260	3	78	1.85	< 10	5	< 1	< 10	0.48	95	169	3.92	< 0.01	2.70	0.04	0.006	< 10	1	< 10
30133	6.6	2.7	3900	116	< 2	1280	10	72	4.75	< 10	9	< 1	< 10	3.86	71	84	3.06	< 0.01	0.72	0.20	0.005	< 10	2	< 10
30134	0.7	0.7	506	200	< 2	436	5	75	3.62	< 10	165	< 1	< 10	1.17	29	116	3.61	0.63	1.61	0.20	0.008	< 10	6	< 10
30135	1.0	2.1	734	171	< 2	23	10	198	4.85	< 10	97	< 1	< 10	2.59	10	70	3.82	0.27	1.00	0.23	0.016	< 10	1	< 10
30136	0.8	1.5	839	190	< 2	27	12	200	5.74	< 10	74	< 1	< 10	2.99	13	62	4.15	0.29	1.23	0.23	0.016	< 10	2	< 10
30137	0.6	0.9	802	283	< 2	30	7	246	4.43	< 10	104	< 1	< 10	1.60	16	67	5.76	0.84	2.20	0.16	0.012	< 10	5	< 10
30138	6.8	16.0	6050	231	3	43	8	518	3.45	< 10	34	< 1	< 10	0.91	40	76	5.92	0.76	1.84	0.14	0.016	< 10	4	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28575	125	0.01	12	< 10	< 1	< 1	0.054
28577	125	0.01	10	< 10	< 1	< 1	0.048
28578	111	0.03	18	< 10	< 1	< 1	0.059
28579	121	0.02	14	< 10	< 1	< 1	0.063
28680	123	< 0.01	2	< 10	< 1	< 1	0.077
28681	103	0.02	14	< 10	< 1	< 1	0.121
28682	73	0.08	90	< 10	< 1	< 1	0.024
28683	71	0.05	29	< 10	< 1	< 1	0.028
28684	85	0.01	15	< 10	< 1	< 1	0.033
28685	94	0.02	21	< 10	< 1	< 1	0.036
28728	159	0.04	21	< 10	< 1	< 1	0.103
28727	152	0.02	16	< 10	< 1	< 1	0.095
28728	153	0.01	12	< 10	< 1	< 1	0.054
28729	150	0.02	16	< 10	< 1	< 1	0.075
28731	152	0.02	15	< 10	< 1	< 1	0.059
28732	170	0.02	16	< 10	< 1	< 1	0.093
28733	47	0.05	24	< 10	< 1	< 1	0.302
28734	33	0.04	24	< 10	1	1	0.432
28492	102	0.01	11	< 10	< 1	< 1	0.109
28483	96	0.02	12	< 10	< 1	< 1	0.045
28494	108	0.03	13	< 10	< 1	< 1	0.140
28766	51	0.03	36	< 10	< 1	3	3.396
28767	53	0.04	64	< 10	2	1	0.705
28768	87	0.05	51	< 10	2	< 1	0.075
28770	71	0.02	33	< 10	< 1	1	0.487
28771	31	0.02	47	< 10	< 1	3	2.318
28772	74	0.03	54	< 10	1	1	1.567
28773	55	0.02	56	< 10	< 1	3	3.406
28774	84	0.02	52	< 10	< 1	1	1.234
28775	62	0.02	60	< 10	< 1	2	3.021
28760	77	< 0.01	2	< 10	< 1	< 1	0.092
28825	120	0.02	17	< 10	< 1	< 1	0.126
28827	116	0.03	16	< 10	< 1	< 1	0.087
28828	105	0.04	33	< 10	1	< 1	0.155
28829	78	0.10	90	< 10	3	1	0.702
28830	94	< 0.01	3	< 10	< 1	< 1	0.073
28831	102	0.02	20	< 10	< 1	< 1	0.267
28832	96	0.03	20	< 10	< 1	< 1	0.077
28833	90	0.03	19	< 10	1	< 1	0.170
28834	90	0.03	20	< 10	1	< 1	0.095
28835	88	0.03	16	< 10	< 1	< 1	0.193
28866	7	0.08	167	< 10	4	3	2.894
28867	8	0.02	94	< 10	5	4	5.218
28868	4	0.03	86	< 10	5	7	4.036
28869	5	0.02	96	< 10	5	7	3.199
28870	70	0.02	33	< 10	< 1	1	0.482
28871	4	0.03	64	< 10	11	7	1.416
28872	13	0.07	20	< 10	7	9	0.398
28873	10	0.11	120	< 10	8	6	0.817
28874	9	0.09	95	< 10	10	6	0.824
28875	18	0.13	39	< 10	9	7	0.049
28876	13	0.21	76	< 10	11	5	0.045

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28677	15	0.16	62	< 10	13	9	0.068
28678	8	0.06	21	< 10	8	11	2.136
28679	7	0.12	32	< 10	9	9	2.184
28680	100	< 0.01	1	< 10	< 1	< 1	0.127
28681	16	0.13	18	< 10	16	15	0.039
28682	8	0.07	46	< 10	13	6	0.573
29288	16	0.02	81	< 10	2	4	3.797
29289	22	0.03	81	< 10	2	6	3.227
29300	16	0.08	60	< 10	15	16	6.354
29301	13	0.06	112	< 10	2	6	6.136
29302	8	0.05	109	< 10	3	8	5.421
29303	6	0.08	77	< 10	7	8	5.474
29304	18	0.20	144	< 10	16	5	1.799
29305	17	0.16	173	< 10	10	4	0.750
29306	14	0.18	97	< 10	7	4	0.166
29307	24	0.13	101	< 10	7	3	0.137
30109	49	0.03	16	< 10	< 1	1	1.476
30110	17	0.08	61	< 10	15	16	6.596
30111	49	0.03	16	< 10	< 1	1	1.439
30113	12	0.05	24	< 10	< 1	1	1.452
30115	89	0.05	26	< 10	< 1	1	1.132
30116	73	0.04	21	< 10	2	1	0.435
30117	100	0.04	31	< 10	< 1	< 1	0.715
30118	82	0.07	41	< 10	3	< 1	0.426
N#1	85	0.04	21	< 10	1	< 1	0.635
30129	97	< 0.01	7	< 10	< 1	1	1.778
30130	70	0.02	33	< 10	< 1	1	0.485
30131	76	0.01	11	< 10	< 1	1	2.319
30132	2	< 0.01	10	< 10	< 1	1	1.367
30133	40	0.01	11	< 10	< 1	1	1.470
30134	16	0.08	36	< 10	2	3	0.536
30135	37	0.07	42	< 10	4	4	0.452
30135	40	0.05	44	< 10	7	6	0.593
30137	27	0.11	51	< 10	4	3	0.795
30138	18	0.10	29	< 10	3	5	1.885

Activation Laboratories Ltd. Report: A08-4042

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	30.3	3.7	1230	893	15	34	893	544	0.34	386	303	<1	1510	0.83	9	7	25.6	0.03	0.14	0.06	0.038	83	1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	4.0	0.7	6570	139	351	39	44	58	2.64	103	37	1	31	0.92	15	55	3.75	1.47	1.74	0.12	0.122	<10	7	<10
GXR-4 Cert	4.00	0.660	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	23.6	5.0	93	1120	<2	20	823	607	3.52	14	1110	1	<10	0.80	11	28	2.53	0.61	0.58	0.23	0.063	29	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.4	0.5	73	1020	<2	25	96	120	7.02	248	913	<1	<10	0.15	15	85	7.00	0.95	0.42	0.13	0.033	<10	23	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2820			2240											6.18							
OREAS 13P Cert			2500			2280											7.58							
28727 Ong	0.4	< 0.5	203	103	< 2	76	15	14	6.27	< 10	14	< 1	< 10	4.58	10	127	1.00	0.05	0.75	0.64	0.008	< 10	3	< 10
28727 Dup	0.3	< 0.5	199	103	< 2	75	17	12	6.24	< 10	15	< 1	< 10	4.58	10	123	1.00	0.05	0.76	0.64	0.008	< 10	3	< 10
28771 Ong	8.4	5.2	5880	256	< 2	2820	110	388	2.67	< 10	7	< 1	< 10	1.75	184	221	14.5	< 0.01	1.06	0.14	0.009	< 10	3	< 10
28771 Dup	8.4	4.9	5900	242	< 2	2810	108	385	2.80	< 10	8	< 1	< 10	1.71	190	214	15.7	< 0.01	1.05	0.14	0.010	< 10	3	< 10
28873 Ong	0.5	1.1	404	543	< 2	107	14	288	3.51	< 10	96	< 1	< 10	0.48	56	77	7.29	0.80	2.77	0.07	0.077	< 10	10	< 10
28873 Dup	0.6	1.1	406	546	< 2	108	14	272	3.51	< 10	108	< 1	< 10	0.48	55	77	7.27	0.61	2.75	0.07	0.077	< 10	10	< 10
29502 Ong	29.4	27.3	> 10000	392	< 2	4650	841	855	2.05	< 10	14	< 1	< 10	1.32	228	86	27.6	0.10	1.25	0.05	0.015	< 10	5	29
29502 Dup	30.1	27.9	> 10000	393	< 2	4760	835	997	2.09	< 10	14	< 1	< 10	1.33	228	87	28.2	0.10	1.28	0.05	0.016	< 10	5	27
30118 Ong	0.8	1.5	365	199	< 2	111	12	45	4.87	< 10	9	< 1	< 10	3.92	25	89	2.15	0.02	0.87	0.35	0.027	< 10	5	< 10
30118 Dup	0.6	1.4	347	191	< 2	109	12	45	4.70	< 10	8	< 1	< 10	3.80	25	87	2.01	0.02	0.83	0.34	0.026	< 10	5	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	178		82	181	24	14	0.207
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	81		89	14	12	10	1.922
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	95		56	< 10	12	13	0.041
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	34		187	< 10	7	15	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
28727 Orig	152	0.02	16	< 10	< 1	< 1	0.097
28727 Dup	151	0.02	16	< 10	< 1	< 1	0.094
28771 Orig	32	0.02	48	< 10	< 1	3	1.988
28771 Dup	31	0.02	47	< 10	< 1	3	2.647
28873 Orig	10	0.11	119	< 10	8	6	0.819
28873 Dup	10	0.11	121	< 10	8	6	0.815
29302 Orig	8	0.05	109	< 10	3	6	5.967
29302 Dup	8	0.05	109	10	3	6	4.875
30118 Orig	84	0.08	42	< 10	3	< 1	0.433
30118 Dup	81	0.07	40	< 10	3	< 1	0.417
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 14-Jul-08
Invoice No.: A08-4044
Invoice Date: 06-Aug-08
Your Reference: DOSSIER #22790

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

62 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4044**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4044

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24496	< 0.2	< 0.5	211	551	< 2	62	< 2	44	2.92	< 10	19	< 1	< 10	3.14	32	82	5.66	0.06	2.08	0.17	0.051	< 10	12	< 10
24497	0.9	< 0.5	653	406	2	30	< 2	29	2.88	< 10	39	< 1	< 10	0.41	12	84	3.92	0.17	2.76	0.03	0.017	< 10	4	< 10
24498	0.3	< 0.5	3940	409	< 2	35	< 2	39	2.83	< 10	47	< 1	< 10	0.38	26	95	5.07	0.18	2.87	0.02	0.027	< 10	5	< 10
24499	0.6	< 0.5	792	411	2	36	< 2	38	2.75	< 10	44	< 1	< 10	0.51	12	78	3.87	0.14	2.75	0.05	0.015	< 10	5	< 10
24500	0.8	1.6	8640	266	< 2	> 10000	7	41	0.45	< 10	6	< 1	< 10	0.38	478	31	30.8	0.10	0.16	0.08	0.048	< 10	3	< 10
24501	2.0	0.8	1230	444	< 2	91	5	58	3.31	< 10	17	< 1	< 10	1.78	135	137	5.91	0.08	3.10	0.06	0.012	< 10	6	< 10
24502	0.8	< 0.5	634	387	< 2	316	13	44	2.62	< 10	10	< 1	< 10	2.43	30	231	3.02	0.03	2.41	0.16	0.008	< 10	4	< 10
28489	< 0.2	0.5	190	929	< 2	48	< 2	48	2.09	< 10	16	< 1	< 10	2.90	27	97	6.06	0.08	1.65	0.30	0.046	< 10	16	< 10
28490	0.7	< 0.5	1720	325	< 2	1790	< 2	29	5.64	< 10	23	< 1	< 10	3.24	53	164	3.90	0.04	3.52	0.35	0.003	< 10	3	< 10
28491	< 0.2	< 0.5	172	597	< 2	45	< 2	41	1.85	< 10	23	< 1	< 10	2.96	27	86	5.78	0.09	1.72	0.26	0.051	< 10	16	< 10
24513	2.0	2.3	1280	315	< 2	1040	35	218	3.12	< 10	7	< 1	< 10	1.23	72	243	5.98	0.01	4.18	0.09	0.010	< 10	3	< 10
24514	< 3	4.2	2970	300	< 2	942	61	245	2.65	< 10	10	< 1	< 10	1.28	51	197	5.76	0.02	3.35	0.06	0.008	< 10	3	< 10
24515	2.0	3.9	1340	348	< 2	702	77	277	3.11	< 10	10	< 1	< 10	1.66	50	258	5.66	0.02	3.78	0.11	0.008	< 10	3	< 10
24516	0.2	0.9	173	836	< 2	75	20	77	3.45	< 10	10	< 1	< 10	2.89	30	89	7.49	0.01	2.01	0.11	0.049	< 10	10	< 10
24517	0.2	0.6	240	605	< 2	47	11	66	3.07	< 10	13	< 1	< 10	3.15	31	91	5.55	0.04	1.01	0.24	0.052	< 10	13	< 10
24518	< 0.2	< 0.5	186	496	< 2	42	10	55	2.65	< 10	13	< 1	< 10	2.68	28	79	5.58	0.04	1.35	0.27	0.048	< 10	11	< 10
24519	< 0.2	0.5	200	494	< 2	45	7	64	2.27	< 10	16	< 1	< 10	2.58	25	73	5.12	0.04	1.37	0.21	0.052	< 10	11	< 10
24520	0.7	< 0.5	1770	322	< 2	1790	3	28	5.85	< 10	24	< 1	< 10	3.20	51	163	3.80	0.04	3.60	0.37	0.003	< 10	3	< 10
24521	< 0.2	< 0.5	152	307	< 2	38	7	42	2.29	< 10	19	< 1	< 10	2.10	22	57	4.60	0.04	0.78	0.28	0.055	< 10	7	< 10
24522	< 0.2	0.5	179	410	< 2	38	9	54	2.84	< 10	15	< 1	< 10	2.80	23	62	5.34	0.04	1.03	0.36	0.051	< 10	10	< 10
24512	51.5	45.4	> 10000	298	3	1660	257	1950	0.83	< 10	10	< 1	18	1.12	62	60	12.8	0.07	0.73	0.02	0.019	< 10	1	40
24513	28.5	30.0	> 10000	593	< 2	5750	314	2620	1.39	< 10	9	< 1	17	1.14	169	23	38.8	0.05	0.98	0.01	0.021	< 10	3	20
24514	38.7	38.9	> 10000	254	< 2	7580	406	2180	0.42	11	6	< 1	21	0.12	169	51	43.0	0.01	0.28	0.01	0.015	12	< 1	18
24515	37.5	37.3	> 10000	483	< 2	6260	497	1940	0.85	< 10	5	< 1	28	0.21	180	16	37.8	0.02	0.75	0.01	0.017	< 10	2	25
24516	16.0	19.0	> 10000	150	< 2	8860	126	929	0.22	< 10	7	< 1	< 10	0.21	215	30	43.4	0.03	0.16	0.01	0.009	10	< 1	18
24517	16.2	4.4	> 10000	295	< 2	4830	27	278	1.10	19	5	< 1	< 10	0.79	611	117	33.6	0.02	1.11	< 0.001	0.011	< 10	2	18
24518	0.5	0.7	405	530	< 2	182	42	218	2.73	< 10	89	< 1	< 10	0.89	31	125	8.76	0.49	2.32	0.10	0.050	< 10	10	< 10
24519	0.2	< 0.5	157	492	< 2	65	17	127	2.95	< 10	30	< 1	< 10	2.74	23	122	3.87	0.07	1.43	0.22	0.035	< 10	8	< 10
24520	0.5	< 0.5	1690	304	< 2	1660	3	27	5.51	< 10	23	< 1	< 10	2.99	48	162	3.62	0.04	3.30	0.34	0.003	< 10	3	< 10
24521	< 0.2	< 0.5	71	501	< 2	60	14	86	2.41	< 10	15	< 1	< 10	2.16	21	140	3.89	0.05	1.90	0.28	0.031	< 10	8	< 10
24715	< 0.2	1.1	111	513	< 2	71	36	214	3.65	< 10	47	< 1	< 10	3.19	25	160	4.39	0.16	2.01	0.38	0.033	< 10	11	< 10
24717	0.8	< 0.5	1690	321	< 2	1740	5	29	5.55	< 10	25	< 1	< 10	3.19	52	181	3.79	0.04	3.48	0.35	0.003	< 10	3	< 10
24718	5.8	2.5	7040	135	< 2	1190	77	322	5.30	< 10	22	< 1	< 10	3.75	72	250	8.54	0.18	1.17	0.32	0.010	< 10	3	< 10
24719	7.4	4.4	9230	189	< 2	3680	54	394	3.36	< 10	12	< 1	< 10	1.91	204	177	20.4	0.12	1.19	0.20	0.009	< 10	2	< 10
24723	2.8	2.1	3380	173	< 2	4310	34	235	2.26	< 10	15	< 1	< 10	0.57	355	83	23.2	0.23	1.25	0.13	0.010	< 10	2	< 10
24724	2.9	2.9	3250	120	< 2	3490	65	231	2.60	< 10	9	< 1	< 10	1.40	160	55	16.9	0.26	1.03	0.33	0.012	< 10	3	< 10
24716	4.8	9.5	5900	155	< 2	2730	88	535	2.54	< 10	14	< 1	< 10	1.16	117	62	17.4	0.39	1.29	0.29	0.021	< 10	4	< 10
24777	8.0	9.2	9440	249	< 2	4220	64	549	1.63	< 10	10	< 1	< 10	0.72	537	75	25.4	0.15	1.12	0.09	0.017	< 10	3	< 10
24778	10.1	11.2	> 10000	478	< 2	3100	91	634	2.32	< 10	19	< 1	< 10	1.46	459	123	22.2	0.12	1.63	0.16	0.012	< 10	5	< 10
24779	14.7	10.3	> 10000	556	< 2	5030	108	843	2.22	< 10	13	< 1	< 10	1.08	340	59	30.5	0.05	1.95	0.05	0.015	< 10	6	< 10
26588	0.3	< 0.5	440	359	< 2	97	2	40	2.63	< 10	20	< 1	< 10	0.76	18	71	3.68	0.04	2.41	0.04	0.014	< 10	5	< 10
26689	0.3	0.6	641	552	< 2	105	< 2	43	3.81	< 10	9	< 1	< 10	0.97	18	82	5.34	0.03	3.76	0.03	0.014	< 10	6	< 10
26690	0.6	< 0.5	1830	327	< 2	1800	4	30	5.87	< 10	25	< 1	< 10	3.24	54	165	3.87	0.04	3.55	0.37	0.003	< 10	3	< 10
26591	0.6	< 0.5	622	527	< 2	81	3	42	3.85	< 10	11	< 1	< 10	1.51	22	106	5.20	0.04	3.65	0.03	0.014	< 10	6	< 10
26652	1.0	0.5	826	550	< 2	116	6	44	3.88	< 10	16	< 1	< 10	1.31	39	149	6.07	0.04	3.85	0.03	0.013	< 10	11	< 10
26653	0.7	1.1	370	467	< 2	111	10	95	3.78	< 10	23	< 1	< 10	1.99	21	119	4.31	0.07	3.11	0.07	0.012	< 10	7	< 10
26654	< 0.2	< 0.5	86	474	< 2	42	< 2	49	2.34	< 10	7	< 1	< 10	2.99	27	117	4.46	< 0.01	1.29	0.06	0.048	< 10	8	< 10
26655	0.3	< 0.5	165	557	< 2	41	8	71	3.19	< 10	17	< 1	< 10	3.45	28	113	5.28	0.04	1.45	0.34	0.046	< 10	13	< 10
26656	0.5	0.7	706	551	< 2	72	10	76	2.65	< 10	14	< 1	< 10	2.92	51	100	6.66	0.03	1.67	0.27	0.052	< 10	13	< 10
26657	< 0.2	0.5	194	592	< 2	49	5	64	2.49	< 10	11	< 1	< 10	2.91	30	104	5.71	0.03	1.73	0.27	0.051	< 10	13	< 10
26658	< 0.2	0.5	160	514	< 2	45	5	67	2.30	< 10	13	< 1	< 10	3.02	26	82	5.45	0.05	1.68	0.23	0.050	< 10	12	< 10
26659	0.2	0.5	221	497	< 2	49	11	68	2.16	< 10	13	< 1	< 10	2.65	38	72	5.04	0.04	1.37	0.23	0.054	< 10	12	< 10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26700	0.8	1.9	8710	291	< 2	> 10000	5	43	0.48	< 10	9	< 1	< 10	0.41	504	33	33.5	0.11	0.17	0.09	0.050	< 10	4	< 10
26701	0.2	< 0.5	287	585	< 2	51	10	72	2.43	< 10	17	< 1	< 10	2.61	37	98	6.24	0.06	1.60	0.21	0.054	< 10	13	< 10
26702	0.4	0.7	453	540	< 2	51	9	88	2.22	< 10	18	< 1	< 10	2.83	38	85	5.77	0.05	1.45	0.32	0.047	< 10	13	< 10
26703	0.3	0.5	252	502	< 2	64	8	89	2.62	< 10	16	< 1	< 10	3.54	33	98	5.49	0.04	1.71	0.39	0.052	< 10	15	< 10
26704	< 0.2	< 0.5	134	510	< 2	40	7	52	2.71	< 10	16	< 1	< 10	3.03	25	85	5.29	0.04	1.31	0.38	0.049	< 10	12	< 10
26705	0.2	1.0	128	556	< 2	73	37	91	2.73	< 10	10	< 1	< 10	3.33	27	105	5.34	0.02	1.78	0.12	0.044	< 10	12	< 10
26706	0.3	0.8	154	593	< 2	61	31	80	3.10	< 10	17	< 1	< 10	3.18	24	96	5.65	0.04	1.60	0.27	0.052	< 10	12	< 10
26707	0.2	0.5	160	830	< 2	59	18	76	3.22	< 10	17	< 1	< 10	3.47	20	91	5.66	0.05	1.65	0.32	0.049	< 10	14	< 10
26730	< 0.2	< 0.5	5	177	< 2	4	6	12	0.07	< 10	123	< 1	< 10	10.1	< 1	20	0.15	0.01	6.25	0.03	0.005	< 10	< 1	< 10
26735	3.7	2.3	2260	202	< 2	697	36	55	5.30	< 10	11	< 1	< 10	4.30	51	163	3.63	0.03	1.26	0.61	0.013	< 10	4	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24495	9	0.20	157	< 10	12	2	0.527
24497	10	0.14	19	< 10	19	5	0.173
24498	8	0.17	25	< 10	18	4	0.287
24499	12	0.12	19	< 10	16	4	0.197
24500	15	0.10	55	< 10	15	16	7.884
24501	13	0.07	29	< 10	10	4	2.146
24502	23	0.04	37	< 10	2	< 1	0.230
28489	17	0.22	164	< 10	12	3	0.278
28490	69	0.02	37	< 10	< 1	1	0.530
28491	6	0.17	166	< 10	12	3	0.220
24513	3	0.04	28	< 10	1	2	1.166
24514	11	0.03	23	< 10	< 1	2	1.390
24515	7	0.04	26	< 10	1	2	1.097
24516	13	0.18	187	< 10	9	2	0.442
24517	30	0.20	173	< 10	11	2	0.311
24518	34	0.15	139	< 10	9	2	0.336
24519	27	0.21	150	< 10	10	2	0.313
24520	70	0.02	36	< 10	< 1	< 1	0.523
24521	41	0.12	134	< 10	7	2	0.256
24522	54	0.14	157	< 10	9	2	0.261
24512	8	0.04	29	< 10	8	12	6.845
24513	4	0.07	110	< 10	3	8	5.942
24514	3	0.02	134	< 10	1	9	4.697
24515	6	0.02	105	< 10	2	8	5.714
24516	3	0.02	95	< 10	< 1	9	3.577
24517	3	0.05	136	< 10	4	10	8.420
24518	15	0.18	95	< 10	11	12	0.763
24519	41	0.12	98	< 10	5	2	0.257
24520	67	0.02	34	< 10	< 1	1	0.492
24521	27	0.14	69	< 10	7	2	0.135
24715	45	0.15	110	< 10	8	2	0.768
24770	70	0.02	36	< 10	< 1	< 1	0.522
24771	45	0.04	61	< 10	1	3	3.469
24772	28	0.03	57	< 10	< 1	5	7.415
24773	13	0.05	73	< 10	1	5	5.915
24774	20	0.07	105	< 10	1	4	6.767
24775	24	0.09	111	< 10	2	4	5.578
24777	11	0.04	94	< 10	1	5	7.939
24778	17	0.04	96	< 10	2	5	5.140
24779	9	0.03	80	< 10	2	6	7.506
26588	7	0.11	16	< 10	14	3	0.281
26589	10	0.11	23	< 10	11	3	0.255
26590	89	0.02	36	< 10	< 1	1	0.533
26591	13	0.06	31	< 10	12	3	0.391
26592	14	0.10	41	< 10	13	4	0.884
26593	16	0.07	32	< 10	8	2	0.172
26594	76	0.29	121	< 10	11	2	0.168
26595	52	0.21	144	< 10	11	2	0.472
26595	40	0.24	161	< 10	12	3	1.141
26597	31	0.22	169	< 10	11	3	0.406
26598	30	0.19	160	< 10	10	2	0.298
26599	25	0.16	136	< 10	10	2	0.666

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26700	17	0.11	60	< 10	16	17	7.645
26701	32	0.25	166	< 10	12	3	0.628
26702	28	0.17	157	< 10	10	2	0.559
26703	41	0.21	179	< 10	13	3	0.630
26704	41	0.17	166	< 10	10	2	0.210
26705	19	0.30	137	< 10	10	3	0.237
26706	44	0.16	155	< 10	11	2	0.302
26707	54	0.23	189	< 10	12	2	0.221
26730	66	< 0.01	4	< 10	< 1	< 1	0.091
26735	121	0.05	31	< 10	1	1	1.257

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.2	3.3	1140	828	14	37	967	636	0.29	373	298	<1	1430	0.82	8	6	24.7	0.02	0.13	0.05	0.037	76	1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.1	0.6	5960	128	320	39	42	55	2.25	96	36	1	26	0.89	14	53	3.39	1.30	1.68	0.11	0.120	<10	6	<10
GXR-4 Cert	4.00	0.660	6020	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.3	5.0	88	1060	<2	19	799	589	3.08	20	1030	1	<10	0.81	10	27	2.37	0.96	0.55	0.21	0.064	39	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	73	938	<2	26	92	117	6.15	234	852	<1	<10	0.16	14	81	5.13	0.85	0.38	0.13	0.032	<10	20	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.9	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2720			2330																		
OREAS 13P Cert			2500			2260																		
24515 Ong	< 0.2	0.6	206	497	< 2	47	7	64	2.25	< 10	17	< 1	< 10	2.59	25	74	5.14	0.04	1.37	0.21	0.052	< 10	11	< 10
24515 Dup	< 0.2	0.6	194	491	< 2	44	7	54	2.24	< 10	15	< 1	< 10	2.58	25	73	5.09	0.04	1.37	0.20	0.052	< 10	11	< 10
24715 Ong	< 0.2	1.2	112	510	< 2	71	36	214	3.66	< 10	47	< 1	< 10	3.19	25	160	4.36	0.16	2.01	0.38	0.034	< 10	11	< 10
24715 Dup	< 0.2	1.1	109	516	< 2	72	35	214	3.65	< 10	48	< 1	< 10	3.19	25	169	4.41	0.16	2.01	0.38	0.033	< 10	11	< 10
26651 Ong	0.4	< 0.5	601	516	< 2	81	3	41	3.73	< 10	11	< 1	< 10	1.50	22	105	5.12	0.04	3.68	0.03	0.014	< 10	8	< 10
26651 Dup	0.8	0.5	643	538	< 2	81	4	42	4.00	< 10	10	< 1	< 10	1.53	23	111	5.26	0.04	3.74	0.03	0.015	< 10	8	< 10
26705 Ong	0.2	1.1	130	585	< 2	74	37	93	2.61	< 10	10	< 1	< 10	3.43	28	110	5.47	0.02	1.63	0.12	0.045	< 10	12	< 10
26705 Dup	0.2	0.9	127	588	< 2	71	38	88	2.65	< 10	10	< 1	< 10	3.23	26	100	5.20	0.02	1.75	0.11	0.043	< 10	11	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	9	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	151		73	184	22	13	0.202
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	69		79	15	11	9	1.965
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	84		51	< 10	11	11	0.041
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	30		166	< 10	6	13	0.017
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
24515 Orig	28	0.21	151	< 10	10	2	0.311
24515 Dup	27	0.21	149	< 10	10	2	0.316
24715 Orig	45	0.14	110	< 10	8	2	0.267
24715 Dup	45	0.15	110	< 10	8	2	0.268
26651 Orig	13	0.05	31	< 10	12	3	0.381
26651 Dup	13	0.10	32	< 10	13	3	0.400
26705 Orig	19	0.31	141	< 10	10	3	0.243
26705 Dup	18	0.28	132	< 10	10	3	0.231
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 14-Jul-08
Invoice No.: A08-4039
Invoice Date: 24-Jul-08
Your Reference: DOSSIER 22791

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

30 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4039**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4039

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	<10	1	1	<10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
29205	9.2	6.8	5720	183	<2	2130	151	202	3.92	<10	24	<1	17	2.72	158	147	10.1	0.09	0.72	0.34	0.010	<10	3	<10
29207	8.4	5.0	5080	269	<2	2480	126	154	3.30	<10	19	<1	<10	2.35	155	160	10.7	0.06	1.08	0.34	0.008	<10	5	<10
29208	7.9	4.5	4430	213	<2	2710	122	151	2.28	<10	17	<1	<10	1.57	155	161	10.8	0.08	0.91	0.28	0.009	<10	4	<10
29209	8.6	4.0	5750	225	<2	2390	118	159	3.04	<10	10	<1	<10	2.24	114	152	9.70	0.02	0.91	0.30	0.013	<10	4	<10
29210	<0.2	<0.5	9	9	<2	3	<2	2	0.03	<10	7	<1	<10	0.04	<1	<2	0.06	<0.01	0.02	0.01	0.004	<10	<1	<10
29211	6.8	5.5	4640	256	<2	2120	78	189	2.39	<10	15	<1	<10	1.78	158	123	8.78	0.05	1.30	0.16	0.018	<10	4	<10
29212	7.2	4.7	2780	297	<2	894	69	118	2.72	<10	13	<1	<10	1.97	55	172	3.83	0.04	1.82	0.22	0.021	<10	3	<10
29213	12.4	5.4	3780	127	<2	892	124	97	1.94	<10	9	<1	<10	1.68	52	119	1.98	0.02	0.66	0.06	0.020	<10	2	<10
29214	2.8	3.4	1310	130	<2	262	84	57	3.78	<10	16	<1	<10	3.15	18	65	1.07	0.01	0.55	0.11	0.011	<10	2	<10
29215	11.3	4.4	5960	222	<2	1330	97	85	4.10	<10	14	<1	<10	2.92	80	171	5.27	0.01	1.06	0.12	0.013	<10	2	<10
29218	8.7	4.0	3900	333	<2	1220	37	98	2.82	<10	9	<1	<10	1.94	83	128	8.07	0.01	1.48	0.09	0.011	<10	3	<10
29217	2.4	1.7	982	305	<2	162	44	53	3.69	<10	11	<1	<10	3.31	15	163	2.29	0.01	1.20	0.23	0.015	<10	4	<10
29218	3.2	1.6	1050	222	<2	179	67	47	4.62	<10	16	<1	<10	3.47	17	85	1.60	<0.01	0.91	0.41	0.013	<10	3	<10
29219	4.8	2.7	2230	254	<2	1060	73	71	4.08	<10	17	<1	<10	3.04	66	83	3.87	0.01	1.01	0.26	0.017	<10	3	<10
29220	0.7	0.5	1640	307	<2	1660	3	25	5.00	<10	19	<1	<10	2.82	54	140	3.46	0.03	3.25	0.31	0.003	<10	3	<10
29221	4.9	3.0	2180	430	<2	1440	53	80	2.66	<10	7	<1	<10	1.71	109	214	6.82	0.01	1.77	0.08	0.041	<10	4	<10
29222	6.3	25.9	2900	412	<2	4650	209	340	2.55	<10	6	<1	<10	1.36	138	128	11.9	0.02	1.88	0.07	0.007	<10	2	<10
29223	8.4	5.6	3740	342	<2	1040	128	80	4.45	<10	12	<1	<10	3.13	82	143	4.48	0.04	1.71	0.23	0.040	<10	2	<10
29224	22.6	15.0	>10000	252	<2	1510	88	155	3.18	<10	12	<1	<10	1.74	143	124	8.86	0.04	2.01	0.14	0.018	<10	2	<10
29225	22.0	15.6	>10000	265	<2	2350	53	156	2.36	<10	7	<1	<10	1.30	357	260	10.1	0.02	2.67	0.10	0.013	<10	3	<10
29278	1.1	0.9	386	198	<2	122	97	36	4.77	<10	9	<1	<10	3.82	19	105	1.41	0.02	1.02	0.18	0.016	<10	2	<10
29279	5.6	3.8	2480	362	<2	508	109	95	3.74	<10	8	<1	<10	2.40	85	123	3.74	0.02	1.85	0.14	0.008	<10	3	<10
29280	<0.2	<0.5	5	9	<2	<1	<2	1	0.04	<10	8	<1	<10	0.04	<1	2	0.06	<0.01	0.02	0.01	0.004	<10	<1	<10
29281	7.3	6.5	3890	419	<2	827	94	158	3.44	<10	7	<1	<10	1.78	55	167	6.36	0.01	2.38	0.10	0.008	<10	3	<10
29282	7.2	6.1	3330	456	<2	997	83	157	2.48	<10	8	<1	<10	1.23	81	185	5.22	<0.01	2.16	0.04	0.017	<10	3	<10
29283	8.2	9.3	4060	512	<2	1170	112	225	3.06	<10	9	<1	<10	1.19	89	186	6.45	0.02	2.66	0.06	0.011	<10	2	<10
29284	5.8	4.9	3500	372	<2	1030	83	113	2.82	<10	8	<1	<10	1.88	78	299	5.40	0.02	2.48	0.10	0.012	<10	4	<10
29285	14.7	8.2	8430	388	<2	975	113	196	3.04	<10	8	<1	<10	1.19	150	277	6.54	0.02	2.87	0.06	0.007	<10	3	<10
29286	3.0	3.5	1720	242	<2	1150	100	129	3.11	<10	9	<1	<10	1.25	100	261	6.32	0.03	2.92	0.09	0.006	<10	2	<10
29287	4.3	5.0	2540	252	<2	1430	54	151	3.20	<10	13	<1	<10	1.03	99	541	6.70	0.05	3.61	0.07	0.009	<10	2	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
29205	74	0.04	74	< 10	< 1	3	4.658
29207	59	0.04	56	< 10	1	3	6.094
29208	33	0.04	45	< 10	< 1	3	5.568
29209	51	0.04	59	< 10	1	2	4.962
29210	1	< 0.01	< 1	< 10	< 1	3	0.021
29211	37	0.05	42	< 10	1	3	4.575
29212	39	0.05	26	< 10	1	2	1.215
29213	30	0.07	16	< 10	3	1	1.290
29214	58	0.07	17	< 10	3	< 1	0.437
29215	66	0.05	26	< 10	2	1	3.679
29218	38	0.08	31	< 10	2	2	3.521
29217	65	0.05	29	< 10	2	< 1	0.447
29218	84	0.02	17	< 10	< 1	< 1	0.312
29219	68	0.03	23	< 10	1	1	1.745
29220	68	0.01	33	< 10	< 1	1	0.528
29221	24	0.05	42	< 10	2	2	2.310
29222	25	0.04	31	< 10	1	3	6.648
29223	65	0.05	31	< 10	2	2	1.709
29224	31	0.03	22	< 10	< 1	2	3.403
29225	9	0.04	30	< 10	< 1	3	5.350
29278	101	0.02	15	< 10	< 1	< 1	0.200
29279	52	0.04	30	< 10	1	1	1.253
29280	2	< 0.01	< 1	< 10	< 1	3	0.017
29281	36	0.04	33	< 10	< 1	2	1.706
29282	9	0.05	32	< 10	1	2	1.902
29283	14	0.05	31	< 10	1	2	2.336
29284	15	0.04	31	< 10	1	2	1.879
29285	14	0.03	32	< 10	< 1	2	2.591
29286	15	0.03	22	< 10	< 1	1	1.654
29287	11	0.04	31	< 10	< 1	2	2.271

Activation Laboratories Ltd. Report: A08-4039

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	29.3	3.0	1110	838	15	32	889	523	0.34	364	219	<1	1460	0.81	7	7	23.9	0.03	0.13	0.05	0.038	80	1	24
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.9	0.6	6450	135	345	36	46	59	2.80	96	28	1	24	0.92	15	56	3.43	1.38	1.66	0.12	0.124	<10	7	<10
GXR-4 Cert	4.00	0.660	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.064	0.120	4.80	7.70	5.60
GXR-2 Meas	22.6	4.7	87	1080	<2	18	787	572	3.45	18	1030	1	<10	0.76	11	27	2.31	0.58	0.55	0.20	0.064	35	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	36.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.7	71	1020	<2	24	99	121	7.40	235	858	<1	<10	0.16	15	83	6.35	0.89	0.41	0.11	0.033	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2800			2250																		
OREAS 13P Cert			2500			2280																		
29212 Orig	7.2	4.7	2710	296	<2	912	72	119	2.72	<10	13	<1	<10	1.98	55	172	3.84	0.04	1.83	0.22	0.021	<10	3	<10
29212 Dup	7.3	4.7	2850	297	<2	876	67	117	2.72	<10	13	<1	<10	1.97	55	172	3.82	0.04	1.82	0.22	0.020	<10	3	<10
29267 Orig	4.4	4.8	2520	255	<2	1460	52	158	3.18	<10	14	<1	<10	1.06	100	547	6.77	0.05	3.66	0.07	0.009	<10	2	<10
29267 Dup	4.2	5.1	2560	249	<2	1410	56	163	3.23	<10	13	<1	<10	1.02	97	536	6.62	0.05	3.67	0.07	0.008	<10	2	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	162		76	181	23	13	0.202
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	69		85	13	11	9	1.925
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	90		53	< 10	11	11	0.039
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	32		182	< 10	6	11	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
29212 Orig	39	0.05	28	< 10	1	2	1.214
29212 Dup	38	0.05	26	< 10	1	2	1.215
29287 Orig	11	0.04	32	< 10	< 1	2	2.307
29287 Dup	11	0.04	31	< 10	< 1	2	2.238
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 14-Jul-08
Invoice No.: A08-4045
Invoice Date: 04-Aug-08
Your Reference: DOSSIER #22792

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

36 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4045**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4045

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
24312	< 0.2	< 0.5	136	149	< 2	35	< 2	10	4.30	12	17	< 1	< 10	3.04	9	94	1.27	0.02	0.80	0.63	0.022	< 10	3	< 10
24313	< 0.2	< 0.5	71	154	< 2	42	< 2	9	4.64	< 10	20	< 1	< 10	3.51	10	135	1.35	0.03	0.90	0.73	0.011	< 10	4	< 10
24314	< 0.2	< 0.5	184	169	< 2	79	< 2	10	4.50	< 10	14	< 1	< 10	3.41	16	110	1.59	0.01	0.87	0.72	0.013	< 10	4	< 10
24315	< 0.2	< 0.5	75	100	< 2	52	< 2	7	5.55	< 10	14	< 1	< 10	3.91	9	131	0.98	0.02	0.74	0.91	0.013	< 10	4	< 10
24316	< 0.2	< 0.5	92	102	< 2	54	4	8	5.00	< 10	15	< 1	< 10	3.64	10	115	0.97	0.02	0.69	0.81	0.015	< 10	4	< 10
24317	< 0.2	< 0.5	108	108	< 2	57	< 2	8	5.75	< 10	14	< 1	< 10	4.06	10	131	1.06	0.02	0.76	0.91	0.013	< 10	4	< 10
24318	< 0.2	< 0.5	75	89	< 2	38	< 2	7	4.99	< 10	47	< 1	< 10	3.49	9	163	1.07	0.17	0.94	0.72	0.017	< 10	4	< 10
24319	0.2	< 0.5	103	250	< 2	440	< 2	46	4.11	< 10	5	< 1	< 10	0.31	50	199	5.02	< 0.01	5.61	0.03	0.008	< 10	< 1	< 10
24320	0.6	< 0.5	1480	323	< 2	1540	< 2	27	5.88	< 10	22	< 1	< 10	2.99	49	148	3.40	0.04	3.34	0.33	0.002	< 10	3	< 10
24321	< 0.2	< 0.5	60	275	< 2	466	< 2	44	3.87	< 10	6	< 1	< 10	0.18	55	224	4.90	< 0.01	5.43	< 0.01	0.008	< 10	< 1	< 10
24322	< 0.2	< 0.5	44	285	< 2	433	< 2	45	3.83	< 10	7	< 1	< 10	0.18	47	214	4.50	< 0.01	5.37	0.01	0.008	< 10	< 1	< 10
24502	31.1	8.7	> 10000	228	< 2	1330	30	355	2.70	< 10	19	< 1	< 10	0.75	55	132	13.6	0.29	1.81	0.12	0.024	< 10	4	< 10
24503	9.9	4.6	7860	188	< 2	815	69	345	3.81	< 10	28	< 1	< 10	1.41	58	80	9.31	0.53	1.94	0.32	0.031	< 10	5	< 10
24504	10.1	2.1	8600	184	< 2	1910	22	148	2.55	< 10	23	< 1	< 10	0.64	81	100	14.1	0.39	1.67	0.11	0.033	< 10	6	< 10
24505	< 0.2	< 0.5	91	251	< 2	34	4	41	2.37	< 10	206	< 1	< 10	0.53	10	75	3.27	0.55	1.83	0.09	0.023	< 10	6	< 10
24506	0.2	0.9	169	511	< 2	86	4	36	2.74	< 10	31	< 1	< 10	2.11	26	173	4.36	0.15	2.15	0.05	0.038	< 10	10	< 10
24507	< 0.2	< 0.5	12	313	2	4	6	32	2.49	< 10	69	< 1	< 10	1.01	7	81	2.65	0.32	1.25	0.09	0.023	< 10	4	< 10
24508	< 0.2	< 0.5	78	441	3	32	5	59	2.66	< 10	48	< 1	< 10	1.30	16	106	3.58	0.22	1.73	0.04	0.027	< 10	5	< 10
24509	< 0.2	< 0.5	194	394	2	6	< 2	52	2.10	< 10	43	< 1	< 10	0.55	8	71	3.16	0.21	1.57	0.01	0.031	< 10	2	< 10
24510	< 0.2	< 0.5	2	142	< 2	2	4	10	0.02	< 10	167	< 1	< 10	7.66	< 1	34	0.06	< 0.01	4.15	< 0.01	0.001	< 10	< 1	< 10
24511	0.2	< 0.5	131	379	2	79	6	102	2.69	< 10	31	< 1	< 10	0.45	14	75	5.32	0.15	2.59	0.02	0.034	< 10	5	< 10
24716	< 0.2	< 0.5	105	251	< 2	555	< 2	37	2.85	< 10	7	< 1	< 10	1.31	65	198	7.28	< 0.01	5.15	0.02	0.010	< 10	2	< 10
24717	< 0.2	< 0.5	153	658	< 2	35	< 2	30	2.64	< 10	11	< 1	< 10	2.68	30	46	5.27	0.03	1.65	0.15	0.036	< 10	11	< 10
24718	< 0.2	< 0.5	169	775	< 2	40	< 2	36	2.78	< 10	14	< 1	< 10	2.82	32	53	6.89	0.09	1.87	0.22	0.037	< 10	16	< 10
24719	< 0.2	< 0.5	107	537	< 2	42	< 2	28	2.57	< 10	8	< 1	< 10	2.14	28	60	4.51	< 0.01	1.55	0.03	0.026	< 10	7	< 10
24720	0.7	< 0.5	1000	321	< 2	1580	< 2	26	5.96	< 10	21	< 1	< 10	2.94	50	147	3.43	0.03	3.36	0.33	0.003	< 10	3	< 10
24721	< 0.2	< 0.5	149	833	< 2	48	< 2	31	2.73	< 10	15	< 1	< 10	2.50	35	82	5.16	0.03	1.88	0.17	0.033	< 10	11	< 10
24722	0.4	0.9	295	559	< 2	47	18	68	2.64	< 10	17	< 1	< 10	2.69	33	58	5.16	0.04	1.60	0.23	0.037	< 10	15	< 10
24723	< 0.2	< 0.5	105	445	< 2	40	< 2	25	2.75	< 10	13	< 1	< 10	2.35	24	35	4.31	0.03	1.94	0.21	0.036	< 10	11	< 10
24724	< 0.2	< 0.5	67	372	< 2	47	< 2	32	3.34	< 10	10	< 1	< 10	2.98	20	31	2.86	0.02	1.21	0.34	0.033	< 10	10	< 10
24725	0.3	< 0.5	374	453	< 2	66	< 2	29	2.65	< 10	13	< 1	< 10	2.42	31	66	4.26	0.02	1.38	0.29	0.043	< 10	11	< 10
24911	< 0.2	< 0.5	83	766	< 2	15	< 2	87	3.43	< 10	40	< 1	< 10	1.58	22	59	8.04	0.16	2.77	0.07	0.059	< 10	11	< 10
24912	< 0.2	< 0.5	7	549	< 2	10	< 2	51	3.64	< 10	120	< 1	< 10	0.29	15	48	5.45	0.52	2.75	0.02	0.081	< 10	8	< 10
24913	< 0.2	< 0.5	2	633	< 2	10	< 2	59	4.02	< 10	75	< 1	< 10	0.26	16	52	5.78	0.32	3.44	0.01	0.078	< 10	7	< 10
24914	< 0.2	< 0.5	42	826	2	5	< 2	71	3.50	< 10	149	< 1	< 10	0.27	14	68	5.27	0.56	3.11	0.02	0.084	< 10	9	< 10
24925	< 0.2	0.5	4	637	< 2	4	< 2	78	3.95	< 10	104	< 1	< 10	0.34	15	54	6.19	0.37	3.21	0.01	0.087	< 10	9	< 10

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24312	75	0.08	30	< 10	2	2	0.054
24313	85	0.05	33	< 10	2	1	0.056
24314	82	0.08	38	< 10	2	1	0.230
24315	102	0.04	27	< 10	2	< 1	0.078
24316	99	0.04	25	< 10	2	< 1	0.100
24317	118	0.04	27	< 10	2	1	0.098
24318	82	0.05	29	< 10	1	< 1	0.035
24319	4	0.02	31	< 10	< 1	1	0.141
24320	69	0.02	37	< 10	< 1	1	0.467
24321	< 1	0.03	30	< 10	< 1	1	0.143
24322	1	0.02	28	< 10	< 1	1	0.085
24502	11	0.05	48	< 10	6	6	5.315
24603	16	0.09	76	< 10	4	4	3.005
24604	11	0.09	71	< 10	5	14	4.661
24605	11	0.12	19	< 10	8	18	0.066
24606	20	0.17	96	< 10	8	4	0.264
24607	17	0.12	7	< 10	19	19	0.031
24608	14	0.16	40	< 10	19	16	0.164
24609	3	0.11	12	< 10	23	18	0.092
24610	89	< 0.01	5	< 10	< 1	< 1	0.056
24611	3	0.11	38	< 10	19	18	1.079
24716	5	0.03	63	< 10	< 1	2	0.267
24717	15	0.18	156	< 10	7	3	0.215
24718	25	0.19	173	< 10	7	3	0.211
24719	29	0.26	132	< 10	6	3	0.140
24720	67	0.02	36	< 10	< 1	1	0.472
24721	25	0.20	142	< 10	7	3	0.220
24722	30	0.17	155	< 10	7	3	0.366
24723	20	0.14	118	< 10	8	2	0.223
24724	51	0.15	104	< 10	6	1	0.105
24725	34	0.13	107	< 10	7	2	0.566
24911	17	0.18	116	< 10	15	7	0.109
24912	5	0.12	70	< 10	13	6	0.014
24913	4	0.08	66	< 10	12	4	0.025
24914	5	0.10	70	< 10	14	4	0.015
24926	4	0.12	76	< 10	17	6	0.020

Activation Laboratories Ltd. Report: A08-4045

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	30.3	3.5	1120	770	15	22	826	538	0.35	364	303	<1	1440	0.78	9	6	25.1	0.02	0.14	0.03	0.040	79	1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.9	0.6	6630	156	344	36	44	57	3.06	103	24	1	21	1.00	15	57	3.60	1.51	1.74	0.13	0.126	<10	7	<10
GXR-4 Cert	4.00	0.660	6620	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.0	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	22.8	4.9	89	1160	<2	17	820	602	3.93	12	1270	1	<10	0.87	11	28	2.37	0.61	0.69	0.16	0.063	29	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	66	1050	<2	19	98	121	7.58	216	1030	<1	<10	0.18	16	84	5.17	0.99	0.43	0.07	0.034	<10	24	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2560			1960											5.36							
OREAS 13P Cert			2500			2280											7.58							
24603 Orig	10.2	4.6	8040	193	<2	837	72	350	3.91	<10	28	<1	<10	1.44	60	94	5.55	0.54	1.98	0.33	0.032	<10	5	<10
24603 Dup	9.6	4.7	7690	182	<2	794	67	340	3.71	<10	29	<1	<10	1.37	57	87	8.06	0.51	1.91	0.31	0.031	<10	5	<10
24721 Orig	<0.2	<0.5	149	532	<2	49	2	31	2.72	<10	14	<1	<10	2.47	35	61	5.13	0.03	1.88	0.16	0.033	<10	11	<10
24721 Dup	<0.2	<0.5	148	836	<2	47	<2	31	2.74	<10	15	<1	<10	2.62	34	63	5.20	0.03	1.88	0.17	0.033	<10	11	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	187		80	143	24	16	0.214
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	83		86	17	12	11	1.922
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	101		56	< 10	12	11	0.039
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	38		180	< 10	7	9	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
24603 Orig	17	0.10	78	< 10	4	5	3.149
24603 Dup	16	0.08	73	< 10	5	4	2.861
24721 Orig	25	0.20	141	< 10	7	3	0.222
24721 Dup	25	0.20	143	< 10	7	3	0.217
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 14-Jul-08
Invoice No.: A08-4047
Invoice Date: 06-Aug-08
Your Reference: DOSSIER #22793

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

81 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4047**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4047

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
24302	< 0.2	< 0.5	86	318	< 2	76	< 2	39	3.61	< 10	19	< 1	< 10	2.54	17	205	3.02	0.06	2.10	0.33	0.009	< 10	4	< 10
24303	< 0.2	< 0.5	86	244	< 2	67	< 2	20	3.22	< 10	18	< 1	< 10	2.76	12	191	1.80	0.04	1.35	0.45	0.011	< 10	5	< 10
24304	< 0.2	< 0.5	15	283	< 2	70	< 2	24	3.82	< 10	22	< 1	< 10	2.77	18	355	2.86	0.07	2.11	0.34	0.008	< 10	5	< 10
24305	< 0.2	< 0.5	74	396	< 2	117	< 2	31	4.15	< 10	21	< 1	< 10	2.22	25	357	4.34	0.07	2.89	0.24	0.009	< 10	4	< 10
24306	< 0.2	< 0.5	83	210	< 2	43	< 2	15	3.61	< 10	15	< 1	< 10	2.85	11	190	1.81	0.02	1.33	0.48	0.010	< 10	4	< 10
24307	< 0.2	< 0.5	108	181	< 2	44	< 2	15	3.47	< 10	15	< 1	< 10	2.78	12	159	1.75	0.03	1.27	0.48	0.008	< 10	5	< 10
24308	< 0.2	< 0.5	112	131	< 2	61	< 2	14	4.05	< 10	55	< 1	< 10	3.43	12	111	1.45	0.03	0.80	0.55	0.012	< 10	4	< 10
24309	< 0.2	< 0.5	126	167	< 2	61	< 2	10	4.48	< 10	21	< 1	< 10	3.85	13	126	1.98	0.02	0.85	0.67	0.018	< 10	4	< 10
24310	< 0.2	< 0.5	4	220	< 2	3	5	9	0.11	< 10	127	< 1	< 10	12.3	< 1	15	0.09	< 0.01	7.05	0.04	0.002	< 10	< 1	< 10
24311	< 0.2	< 0.5	93	137	< 2	41	< 2	10	4.45	< 10	22	< 1	< 10	3.78	9	136	1.23	0.02	0.83	0.70	0.014	< 10	4	< 10
24342	< 0.2	< 0.5	233	231	< 2	25	< 2	34	3.30	< 10	457	< 1	< 10	0.13	12	117	2.60	0.59	1.95	0.09	0.008	< 10	5	< 10
24343	0.5	0.5	521	171	< 2	30	< 2	30	2.58	< 10	118	< 1	< 10	0.19	13	105	2.05	0.34	1.55	0.10	0.008	< 10	4	< 10
24344	0.5	0.5	1150	145	< 2	214	< 2	50	4.36	< 10	30	< 1	< 10	1.53	64	220	5.75	1.11	3.05	0.36	0.015	< 10	9	< 10
24345	< 0.2	< 0.5	84	283	< 2	20	< 2	43	2.98	< 10	267	< 1	< 10	0.15	8	145	3.43	0.90	2.00	0.12	0.012	< 10	8	< 10
24346	< 0.2	< 0.5	112	247	< 2	25	< 2	44	2.85	< 10	413	< 1	< 10	0.08	9	123	3.25	0.80	1.95	0.10	0.009	< 10	7	< 10
24347	< 0.2	< 0.5	47	232	< 2	13	2	36	2.64	< 10	181	< 1	< 10	0.16	7	164	2.78	0.63	1.70	0.10	0.011	< 10	4	< 10
24348	< 0.2	< 0.5	103	167	< 2	58	< 2	39	4.15	< 10	143	< 1	< 10	1.89	14	245	2.77	0.67	1.10	0.32	0.006	< 10	6	< 10
24349	0.2	0.5	317	271	< 2	36	< 2	40	3.65	< 10	384	< 1	< 10	0.14	15	126	3.25	0.68	2.33	0.09	0.013	< 10	6	< 10
24350	0.8	1.7	7410	279	< 2	> 10000	6	40	0.42	< 10	6	< 1	< 10	0.35	442	32	28.4	0.10	0.19	0.07	0.043	< 10	3	< 10
24351	0.4	0.5	528	277	< 2	103	5	39	3.45	< 10	277	< 1	< 10	0.24	20	107	3.93	0.95	2.55	0.11	0.013	< 10	7	< 10
24442	5.7	4.0	2290	70	< 2	471	105	68	5.73	< 10	69	< 1	< 10	3.96	44	282	2.85	0.31	1.17	0.69	0.015	< 10	3	< 10
24443	7.3	3.5	2600	84	< 2	528	95	53	5.33	< 10	19	< 1	< 10	4.47	35	153	2.98	0.40	0.70	0.47	0.013	< 10	4	< 10
24444	9.3	3.6	3240	93	< 2	873	94	64	4.92	< 10	36	< 1	< 10	3.80	72	214	4.23	0.11	0.85	0.55	0.014	< 10	4	< 10
24445	13.7	4.7	6490	73	< 2	2160	127	73	5.43	< 10	22	< 1	< 10	3.88	76	231	7.66	0.07	0.81	0.71	0.015	< 10	2	< 10
24446	9.7	5.7	4230	92	< 2	2760	114	100	5.15	< 10	16	< 1	< 10	3.56	112	241	9.37	0.20	1.07	0.60	0.007	< 10	4	< 10
24447	7.1	3.9	2940	83	< 2	537	104	48	4.85	< 10	24	< 1	< 10	3.99	46	178	2.66	0.08	0.83	0.50	0.009	< 10	4	< 10
24448	4.8	2.0	1940	66	< 2	747	131	38	5.38	< 10	39	< 1	< 10	4.12	56	152	3.12	0.12	0.75	0.63	0.028	< 10	3	< 10
24449	11.1	4.0	3580	148	< 2	1670	94	79	3.62	< 10	46	< 1	< 10	2.41	85	465	5.23	0.31	2.55	0.16	0.013	< 10	2	< 10
24450	0.8	1.8	8400	296	< 2	> 10000	6	42	0.45	< 10	5	< 1	< 10	0.39	485	33	32.0	0.11	0.17	0.08	0.048	< 10	4	< 10
24451	5.8	3.0	1840	116	< 2	1430	118	54	4.54	< 10	18	< 1	< 10	3.79	51	592	3.35	0.06	1.17	0.41	0.008	< 10	3	< 10
24452	< 0.2	< 0.5	22	706	< 2	21	24	120	3.63	< 10	358	< 1	< 10	1.69	15	74	4.89	1.03	2.30	0.09	0.094	< 10	11	< 10
24453	< 0.2	< 0.5	36	821	< 2	20	24	137	2.77	< 10	187	< 1	< 10	1.84	12	82	3.72	0.49	2.03	0.08	0.063	< 10	7	< 10
24454	< 0.2	< 0.5	4	346	2	6	10	53	2.05	< 10	68	< 1	< 10	1.34	3	92	1.64	0.20	1.25	0.06	0.007	< 10	2	< 10
24454	< 0.2	< 0.5	8	500	< 2	7	5	95	2.30	< 10	83	< 2	< 10	0.30	3	122	2.64	0.51	1.88	0.06	0.008	< 10	2	< 10
24455	< 0.2	< 0.5	6	403	4	11	3	75	1.73	< 10	54	3	< 10	0.17	3	180	2.10	0.28	1.44	0.04	0.006	< 10	1	< 10
28484	< 0.2	< 0.5	8	136	< 2	97	< 2	20	2.95	< 10	13	< 1	< 10	2.57	11	221	1.25	0.02	1.20	0.15	0.005	< 10	2	< 10
28485	< 0.2	0.5	28	171	< 2	15	< 2	48	2.32	< 10	93	< 1	< 10	2.49	23	88	7.80	0.19	1.42	0.22	0.012	< 10	16	< 10
30209	< 0.2	< 0.5	9	354	< 2	9	4	55	2.15	< 10	101	< 1	< 10	0.83	4	150	1.95	0.67	1.18	0.09	0.029	< 10	2	< 10
30210	< 0.2	< 0.5	4	178	< 2	4	6	10	0.12	< 10	81	< 1	< 10	9.79	< 1	36	0.17	0.04	5.17	0.03	0.006	< 10	< 1	< 10
30211	< 0.2	0.5	109	507	30	9	5	218	2.94	< 10	75	2	< 10	0.57	5	115	5.48	0.74	1.88	0.06	0.018	< 10	2	< 10
30212	< 0.2	0.8	125	700	< 2	43	10	370	3.64	< 10	88	< 1	< 10	1.46	22	72	5.76	1.34	2.30	0.20	0.063	< 10	14	< 10
24503	< 0.2	< 0.5	90	205	< 2	117	19	25	3.61	< 10	15	< 1	< 10	3.22	11	123	1.35	0.05	1.23	0.17	0.015	< 10	4	< 10
24504	< 0.2	< 0.5	65	300	< 2	79	23	32	3.95	< 10	21	< 1	< 10	3.53	13	174	1.96	0.04	1.62	0.31	0.006	< 10	5	< 10
24505	< 0.2	< 0.5	86	238	< 2	70	30	24	4.53	< 10	25	< 1	< 10	3.87	11	133	1.54	0.04	1.32	0.40	0.007	< 10	5	< 10
24505	0.9	< 0.5	528	234	< 2	133	48	45	5.12	< 10	17	< 1	< 10	4.31	20	118	1.84	0.03	1.33	0.57	0.008	< 10	4	< 10
24507	< 0.2	< 0.5	174	234	< 2	72	36	31	4.65	< 10	15	< 1	< 10	4.10	12	129	1.69	0.03	1.30	0.55	0.006	< 10	4	< 10
24508	0.3	< 0.5	133	273	< 2	69	71	39	4.07	< 10	18	< 1	< 10	3.72	11	168	1.84	0.03	1.40	0.31	0.008	< 10	4	< 10
24509	2.5	1.8	1240	381	< 2	510	193	118	3.44	< 10	10	< 1	< 10	2.57	51	216	4.10	0.02	2.75	0.19	0.006	< 10	4	< 10
24510	0.3	< 0.5	30	179	< 2	13	7	28	0.11	< 10	253	< 1	< 10	8.88	< 1	38	0.16	0.01	5.55	0.03	0.008	< 10	< 1	< 10
24511	3.2	1.4	1930	369	< 2	741	34	134	3.17	< 10	7	< 1	< 10	1.79	63	317	5.53	< 0.01	3.96	0.07	0.009	< 10	2	< 10
24512	4.4	3.1	2420	233	< 2	1840	22	204	2.47	< 10	6	< 1	< 10	0.75	105	246	6.73	< 0.01	3.65	0.06	0.008	< 10	2	< 10
24533	6.8	4.1	5520	521	< 2	272	116	452	3.35	< 10	13	<												

Activation Laboratories Ltd. Report: A08-4047

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24534	0.3	0.5	152	358	<2	66	97	109	4.18	<10	12	<1	<10	3.73	17	154	2.61	0.02	1.43	0.26	0.14	<10	9	<10
24535	<0.2	0.5	75	509	<2	66	44	89	3.25	<10	9	<1	<10	3.64	19	175	3.51	0.03	2.32	0.13	0.015	<10	10	<10
24536	1.8	1.4	913	447	<2	170	128	124	3.15	<10	10	<1	<10	3.02	31	142	3.80	0.03	1.88	0.13	0.013	<10	9	<10
24537	16.8	5.6	>10000	534	<2	706	289	391	2.75	<10	7	<1	<10	2.80	119	51	11.9	0.01	2.25	0.06	0.027	<10	9	<10
24538	2.7	4.1	979	580	<2	120	257	259	4.61	<10	13	<1	<10	3.79	23	137	5.88	0.03	2.68	0.26	0.016	<10	7	<10
24539	21.2	11.1	>10000	263	<2	1490	414	558	2.18	<10	9	<1	<10	1.59	56	62	13.9	0.01	0.83	0.20	0.024	<10	6	<10
24540	0.8	<0.5	1800	324	<2	1620	7	31	5.74	<10	22	<1	<10	3.21	53	163	3.83	0.04	3.48	0.36	0.003	<10	3	<10
24541	10.0	8.8	5420	120	<2	308	92	417	0.77	<10	28	<1	<10	0.53	40	96	6.66	0.12	0.88	0.08	0.090	<10	3	15
24542	12.5	14.3	6900	117	<2	656	156	719	0.75	<10	18	<1	<10	0.44	57	84	8.60	0.12	0.55	0.07	0.065	<10	3	12
24572	5.6	1.5	1920	262	<2	184	12	39	5.41	<10	13	<1	<10	3.49	24	46	5.19	0.03	1.38	0.40	0.024	<10	3	<10
24573	4.8	1.7	2250	220	<2	737	3	28	1.08	<10	10	<1	<10	0.88	97	59	13.7	0.02	0.89	0.06	0.028	<10	2	<10
24574	5.6	2.8	1420	105	<2	59	18	29	4.25	<10	56	<1	<10	2.75	12	60	1.74	0.11	0.75	0.66	0.014	<10	2	<10
24575	1.4	0.7	449	96	<2	81	17	26	4.05	<10	36	<1	<10	2.73	16	64	1.65	0.07	0.88	0.64	0.018	<10	2	<10
24576	1.7	0.8	527	126	<2	89	25	34	6.78	<10	64	<1	<10	4.77	20	63	2.09	0.17	1.30	0.65	0.012	<10	3	<10
24577	1.3	0.7	488	217	<2	65	3	40	3.68	<10	25	<1	<10	0.53	13	90	4.17	0.08	2.77	0.12	0.012	<10	5	<10
24578	2.6	0.9	1070	300	<2	188	9	53	3.65	<10	31	<1	<10	0.82	21	64	6.87	0.22	3.13	0.11	0.009	<10	4	<10
24579	<0.2	<0.5	39	127	<2	15	3	28	2.22	<10	65	<1	<10	0.13	5	105	1.60	0.40	1.91	0.04	0.003	<10	<1	<10
24660	<0.2	<0.5	14	149	<2	9	6	12	0.06	<10	74	<1	<10	7.54	<1	33	0.11	<0.01	4.42	0.02	0.003	<10	<1	<10
24681	0.8	<0.5	89	171	<2	16	2	31	2.81	<10	89	<1	<10	0.08	6	95	2.24	0.56	2.72	0.05	0.003	<10	2	<10
24601	1.5	<0.5	649	183	<2	672	3	16	1.45	<10	8	<1	<10	1.32	39	295	2.51	0.01	2.13	0.07	0.005	<10	3	<10
24802	4.6	1.3	2490	166	<2	1480	13	30	5.76	<10	16	<1	<10	4.43	65	400	3.68	0.05	2.11	0.31	0.006	<10	3	<10
24803	2.1	0.8	1150	217	<2	825	12	26	5.58	<10	13	<1	<10	4.16	45	166	3.37	0.03	2.37	0.25	0.005	<10	3	<10
24804	1.9	0.8	1200	155	<2	1380	8	33	3.65	<10	14	<1	<10	1.93	81	159	4.56	0.03	3.47	0.11	0.006	<10	2	<10
24805	3.7	0.8	1870	200	<2	1060	5	33	3.74	<10	12	<1	<10	2.24	56	226	4.36	0.04	3.35	0.13	0.010	<10	3	<10
24806	2.2	0.8	1200	156	<2	609	11	19	4.92	<10	10	<1	<10	3.84	42	115	2.46	0.03	1.61	0.28	0.006	<10	3	<10
24807	0.5	<0.5	416	93	<2	563	4	9	1.07	<10	7	<1	<10	1.10	32	112	1.64	<0.01	0.62	0.10	0.010	<10	3	<10
24808	3.0	0.8	1380	108	<2	682	16	20	4.59	<10	23	<1	<10	3.39	72	142	3.38	0.02	1.72	0.22	0.007	<10	3	<10
24809	12.5	2.0	4860	141	<2	1370	20	49	5.05	<10	11	<1	<10	3.24	67	243	4.27	0.03	2.57	0.22	0.006	<10	2	<10
24810	<0.2	<0.5	16	9	<2	3	<2	1	0.05	<10	9	<1	<10	0.04	<1	3	0.06	0.01	0.02	0.01	0.004	<10	<1	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24302	33	0.08	42	< 10	2	1	0.088
24303	45	0.06	33	< 10	2	< 1	0.056
24304	37	0.08	44	< 10	1	< 1	0.025
24305	29	0.07	47	< 10	1	< 1	0.079
24306	43	0.08	36	< 10	2	< 1	0.037
24307	42	0.08	33	< 10	1	< 1	0.041
24308	75	0.06	35	< 10	2	< 1	0.157
24309	88	0.05	36	< 10	2	< 1	0.196
24310	82	< 0.01	2	< 10	< 1	< 1	0.097
24311	84	0.06	29	< 10	1	< 1	0.067
24342	5	0.09	19	< 10	2	2	0.041
24343	7	0.07	21	< 10	2	2	0.105
24344	24	0.14	66	< 10	3	3	1.409
24345	6	0.12	20	< 10	3	3	0.040
24346	5	0.13	22	< 10	2	3	0.026
24347	6	0.09	17	< 10	3	3	0.022
24348	26	0.09	40	< 10	2	1	0.123
24349	8	0.07	16	< 10	2	2	0.051
24350	14	0.11	52	< 10	14	15	10.02
24351	13	0.10	23	< 10	3	2	0.161
24442	61	0.05	35	< 10	2	2	1.187
24443	67	0.02	19	< 10	1	2	1.166
24444	58	0.04	29	< 10	3	2	1.838
24445	89	0.02	29	< 10	2	3	3.852
24446	61	0.04	43	< 10	2	3	4.497
24447	57	0.03	26	< 10	1	1	1.093
24448	83	0.03	31	< 10	2	1	1.483
24449	27	0.08	43	< 10	1	2	1.891
24450	15	0.11	58	< 10	18	17	9.187
24451	48	0.03	33	< 10	1	1	1.017
24491	15	0.29	74	< 10	13	7	0.027
24492	18	0.21	44	< 10	17	6	0.089
24493	9	0.08	1	< 10	23	33	0.013
24494	6	0.06	3	< 10	21	39	0.014
24495	5	0.03	2	< 10	19	36	0.008
28484	55	0.03	14	< 10	1	< 1	0.025
28485	14	0.20	82	< 10	29	5	0.127
30209	11	0.07	4	< 10	13	24	0.012
30210	103	< 0.01	1	< 10	1	1	0.076
30211	11	0.07	8	< 10	15	19	0.898
30212	22	0.27	125	< 10	9	7	0.335
24503	57	0.04	24	< 10	2	< 1	0.080
24504	54	0.04	35	< 10	1	< 1	0.043
24505	80	0.04	29	< 10	2	< 1	0.056
24506	91	0.05	27	< 10	1	< 1	0.182
24507	87	0.02	25	< 10	1	< 1	0.081
24508	78	0.03	31	< 10	1	< 1	0.081
24509	42	0.04	31	< 10	1	1	0.734
24510	102	< 0.01	6	< 10	< 1	< 1	0.088
24511	4	0.03	26	< 10	1	2	1.147
24512	1	0.03	22	< 10	< 1	2	2.311
24533	47	0.06	106	< 10	4	2	1.228

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24534	70	0.07	72	< 10	3	1	0.112
24535	41	0.07	84	< 10	3	1	0.091
24536	43	0.08	74	< 10	3	1	0.501
24537	24	0.11	101	< 10	3	4	4.043
24538	39	0.08	76	< 10	3	2	0.194
24539	29	0.08	144	< 10	4	4	4.706
24540	70	0.02	36	< 10	< 1	< 1	0.544
24541	8	0.10	129	< 10	8	4	1.486
24542	7	0.09	141	< 10	6	4	2.641
24572	64	0.06	126	< 10	3	1	0.826
24573	5	0.09	124	< 10	2	6	3.825
24574	39	0.05	69	< 10	1	< 1	0.305
24575	33	0.06	59	< 10	2	< 1	0.306
24576	57	0.04	82	< 10	1	< 1	0.348
24577	16	0.03	74	< 10	2	1	0.548
24578	14	0.03	18	< 10	4	4	2.104
24579	6	0.02	3	< 10	3	3	0.024
24580	62	< 0.01	1	< 10	< 1	< 1	0.068
24581	7	0.02	5	< 10	2	2	0.013
24601	9	0.02	19	< 10	1	1	0.539
24802	73	0.02	25	< 10	< 1	1	1.186
24803	69	0.02	19	< 10	< 1	< 1	0.717
24804	27	0.03	22	< 10	< 1	1	1.224
24805	33	0.04	26	< 10	< 1	1	1.054
24806	71	0.01	19	< 10	2	< 1	0.632
24807	9	0.01	14	< 10	3	3	0.026
24808	49	0.01	28	< 10	2	2	1.371
24809	52	0.01	23	< 10	< 1	< 1	1.747
24810	2	< 0.01	< 1	< 10	< 1	3	0.021

Activation Laboratories Ltd. Report: A08-4047

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.9	3.4	1220	899	15	40	531	558	0.35	409	228	<1	1540	0.89	7	7	25.8	0.03	0.14	0.06	0.048	75	1	28
GXR-1 Cert	31.0	3.30	1110	952	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.4	0.7	6910	138	353	45	44	70	2.68	108	17	1	26	1.03	15	59	3.75	1.47	1.77	0.13	0.133	<10	7	<10
GXR-4 Cert	4.00	0.860	6920	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	21.1	5.4	92	1150	<2	21	883	648	3.52	12	1090	1	<10	0.91	11	31	2.54	0.62	0.60	0.24	0.067	15	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.9	76	1030	<2	28	103	130	7.11	221	927	<1	<10	0.18	15	93	5.60	1.00	0.44	0.14	0.035	<10	23	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.9	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas							2770																	
OREAS 13P Cert							2300																	
24303 Ong	< 0.2	< 0.5	84	242	< 2	68	2	19	3.17	< 10	17	< 1	< 10	2.73	11	189	1.78	0.04	1.34	0.44	0.011	< 10	5	< 10
24303 Dup	< 0.2	< 0.5	87	247	< 2	68	< 2	20	3.27	< 10	19	< 1	< 10	2.80	12	194	1.83	0.04	1.35	0.46	0.011	< 10	5	< 10
24347 Ong	< 0.2	< 0.5	47	230	< 2	13	2	36	2.62	< 10	179	< 1	< 10	0.16	7	163	2.76	0.63	1.69	0.10	0.011	< 10	4	< 10
24347 Dup	< 0.2	< 0.5	48	234	< 2	13	3	36	2.65	< 10	183	< 1	< 10	0.18	7	166	2.80	0.64	1.70	0.11	0.011	< 10	4	< 10
24450 Ong	0.8	1.5	8460	294	< 2	> 10000	6	42	0.46	< 10	4	< 1	< 10	0.39	483	34	32.3	0.11	0.17	0.08	0.048	< 10	4	< 10
24450 Dup	0.8	1.7	8340	298	< 2	> 10000	6	42	0.45	< 10	5	< 1	< 10	0.39	488	32	31.7	0.11	0.15	0.06	0.048	< 10	4	< 10
24504 Ong	< 0.2	< 0.5	64	303	< 2	79	22	32	3.94	< 10	20	< 1	< 10	3.53	13	174	1.96	0.04	1.63	0.32	0.066	< 10	5	< 10
24504 Dup	< 0.2	< 0.5	66	296	< 2	79	24	32	3.97	< 10	21	< 1	< 10	3.53	13	173	1.95	0.04	1.61	0.31	0.066	< 10	5	< 10
24579 Ong	1.8	0.8	518	124	< 2	87	25	34	8.71	< 10	83	< 1	< 10	4.73	21	81	2.06	0.17	1.28	0.64	0.013	< 10	3	< 10
24579 Dup	1.7	0.8	536	128	< 2	91	25	34	6.85	< 10	66	< 1	< 10	4.81	20	65	2.11	0.17	1.32	0.65	0.012	< 10	3	< 10
24609 Ong	13.0	1.8	5060	147	< 2	1430	20	49	5.12	< 10	12	< 1	< 10	3.33	69	252	4.45	0.03	2.67	0.22	0.006	< 10	2	< 10
24609 Dup	12.0	2.2	4910	135	< 2	1320	19	48	4.98	< 10	10	< 1	< 10	3.15	94	234	4.08	0.03	2.46	0.21	0.006	< 10	2	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	205		80	210	25	14	0.222
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	75		69	15	12	10	2.080
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77
GXR-2 Meas	90		54	< 10	12	9	0.045
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	33		185	< 10	7	6	0.018
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
24303 Orig	45	0.06	33	< 10	2	< 1	0.056
24303 Dup	46	0.05	33	< 10	2	1	0.057
24347 Orig	6	0.09	17	< 10	3	3	0.022
24347 Dup	6	0.09	17	< 10	3	3	0.022
24450 Orig	15	0.11	57	< 10	16	17	9.506
24450 Dup	15	0.11	56	< 10	16	17	8.867
24504 Orig	63	0.04	36	< 10	1	< 1	0.043
24504 Dup	65	0.04	35	< 10	1	< 1	0.043
24578 Orig	58	0.04	81	< 10	1	< 1	0.345
24578 Dup	57	0.04	62	< 10	1	< 1	0.350
24606 Orig	54	0.01	24	< 10	< 1	1	1.790
24606 Dup	50	0.01	22	< 10	< 1	< 1	1.703
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							

Quality Analysis ...



Innovative Technologies

Date Submitted: 14-Jul-08

Invoice No.: A08-4050

Invoice Date: 11-Aug-08

Your Reference: DOSSIER #22794

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

103 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4050**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

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Activation Laboratories Ltd. Report: A08-4050

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
24831	2.6	1.4	1080	345	<2	37	9	111	3.16	<10	83	<1	<10	0.76	10	65	3.36	0.35	2.41	0.16	0.005	<10	3	<10
24832	26.1	22.9	9090	318	<2	692	13	358	3.71	<10	29	<1	23	1.49	41	67	7.47	0.53	2.23	0.26	0.012	<10	7	<10
24833	0.2	<0.5	172	281	<2	18	5	89	2.71	<10	135	<1	<10	0.45	8	88	3.08	0.53	1.84	0.14	0.003	<10	6	<10
24834	0.5	0.8	282	330	<2	17	4	131	2.66	<10	181	<1	<10	0.28	10	63	3.29	0.74	2.14	0.09	0.013	<10	6	<10
24835	1.5	1.2	722	375	<2	28	5	159	3.64	<10	177	<1	<10	0.87	13	65	4.22	0.80	2.05	0.11	0.018	<10	6	<10
24836	0.7	1.0	439	474	<2	20	9	162	3.78	<10	100	<1	<10	1.48	10	94	4.21	0.49	2.10	0.12	0.018	<10	5	<10
24837	1.8	1.5	960	219	2	64	8	152	3.77	<10	135	<1	<10	1.38	14	91	3.89	0.53	1.64	0.15	0.014	<10	3	<10
24838	4.4	3.7	2770	247	<2	284	7	255	3.82	<10	56	<1	<10	1.13	31	76	6.23	0.63	1.94	0.14	0.015	<10	4	<10
24839	3.8	2.8	2430	199	<2	230	13	187	4.32	<10	52	<1	<10	1.67	30	75	5.84	0.59	1.78	0.18	0.020	<10	4	<10
24840	0.6	<0.5	1080	303	<2	1730	4	27	5.41	<10	20	<1	<10	2.82	52	160	3.60	0.03	3.30	0.36	0.003	<10	3	<10
24841	7.5	3.8	3900	178	<2	154	13	199	4.24	<10	77	<1	<10	1.89	28	71	4.82	0.70	1.88	0.17	0.014	<10	4	<10
24842	2.8	1.7	1620	198	<2	106	8	151	3.74	<10	115	<1	<10	1.12	24	60	4.76	0.96	2.17	0.12	0.019	<10	5	<10
24843	2.7	1.8	1560	199	<2	91	11	140	4.46	<10	135	<1	<10	1.94	18	79	4.09	0.70	1.89	0.17	0.028	<10	4	<10
24844	6.8	3.5	3770	231	<2	269	11	134	3.92	<10	53	<1	12	1.19	36	67	6.63	0.96	2.39	0.11	0.022	<10	5	<10
24845	3.6	2.0	1960	176	<2	78	10	115	3.76	<10	184	<1	<10	1.45	16	61	3.82	0.57	1.88	0.15	0.025	<10	3	<10
24846	1.0	0.8	436	314	<2	50	4	92	3.18	<10	330	<1	<10	0.32	13	103	3.84	0.96	2.33	0.10	0.013	<10	7	<10
24847	0.9	0.5	250	211	3	23	3	63	2.70	<10	683	<1	<10	0.16	8	108	2.59	0.45	1.99	0.11	0.012	<10	4	<10
24848	2.1	1.2	494	163	<2	226	29	40	4.67	<10	20	<1	<10	3.04	22	146	2.16	0.06	2.00	0.28	0.006	<10	3	<10
24849	7.8	2.3	2480	145	<2	1350	15	54	2.28	<10	12	<1	<10	0.80	80	248	4.38	0.03	2.82	0.05	0.010	<10	1	<10
24850	1.0	2.0	8950	262	<2	>10000	10	43	0.46	<10	6	<1	<10	0.35	618	51	33.0	0.11	0.16	0.07	0.049	<10	3	<10
24851	3.6	2.6	1250	295	<2	1200	28	62	2.94	<10	14	<1	<10	1.47	73	151	4.95	0.04	2.70	0.07	0.011	<10	1	<10
24852	9.4	4.6	3840	196	<2	2140	9	85	2.26	<10	12	<1	<10	0.79	161	114	8.62	0.04	2.34	0.05	0.007	<10	2	<10
24853	5.5	2.2	2020	191	<2	1440	8	53	2.26	<10	7	<1	<10	0.74	83	276	5.53	0.01	2.70	0.06	0.006	<10	3	<10
24854	4.0	1.2	1410	246	<2	1220	4	28	1.17	<10	7	<1	<10	1.13	89	208	4.24	0.01	1.46	0.06	0.007	<10	2	<10
24855	4.4	1.6	1350	259	<2	620	8	42	2.31	<10	12	<1	<10	1.38	46	99	4.16	0.04	2.42	0.08	0.004	<10	4	<10
24856	5.3	1.6	1090	234	<2	713	37	40	4.22	<10	11	<1	<10	2.68	57	160	3.90	0.04	1.71	0.29	0.020	<10	3	<10
24857	6.7	3.8	1710	340	<2	452	23	119	4.32	<10	33	<1	<10	1.50	52	181	6.84	0.17	4.30	0.10	0.008	<10	10	<10
24858	16.1	8.0	3750	196	<2	696	41	125	3.93	<10	30	<1	<10	2.05	82	162	5.60	0.16	2.05	0.16	0.004	<10	5	<10
24859	4.6	2.8	996	392	<2	192	37	64	3.14	<10	14	<1	<10	2.44	38	101	4.14	0.02	1.88	0.13	0.026	<10	5	<10
24860	0.2	1.4	23	185	<2	7	6	280	0.04	<10	75	<1	<10	8.03	<1	19	0.06	<0.01	4.44	0.02	0.003	<10	<1	<10
26647	<0.2	<0.5	69	123	<2	40	<2	18	4.46	<10	21	<1	<10	3.67	16	126	1.16	0.06	0.88	0.33	0.016	<10	3	<10
26648	<0.2	<0.5	93	123	<2	45	<2	9	4.74	<10	14	<1	<10	3.42	14	101	1.11	0.03	0.79	0.55	0.016	<10	2	<10
26649	<0.2	<0.5	17	87	<2	66	<2	17	5.21	<10	76	<1	<10	2.76	17	256	2.31	0.60	2.62	0.36	0.010	<10	5	<10
26650	<0.2	<0.5	296	45	<2	91	<2	8	2.87	<10	136	<1	<10	1.73	14	221	1.15	0.32	0.96	0.37	0.006	<10	3	<10
26651	<0.2	<0.5	70	41	<2	27	<2	6	4.72	<10	81	<1	<10	3.17	6	94	0.74	0.17	0.65	0.65	0.007	<10	2	<10
26652	<0.2	0.7	285	254	7	127	<2	39	5.20	<10	129	<1	<10	0.56	45	95	7.76	1.15	6.92	0.06	0.004	<10	2	<10
26653	<0.2	<0.5	26	80	<2	28	<2	6	4.30	<10	19	<1	<10	3.19	6	81	0.72	0.04	0.65	0.49	0.014	<10	2	<10
26654	<0.2	<0.5	4	90	<2	39	<2	3	4.05	<10	50	<1	<10	2.59	10	202	1.20	0.22	1.13	0.44	0.012	<10	3	<10
26655	<0.2	<0.5	3	72	<2	63	<2	11	4.26	<10	53	<1	<10	2.72	12	306	1.42	0.27	1.67	0.42	0.016	<10	2	<10
26656	<0.2	<0.5	87	107	<2	85	<2	8	3.28	<10	21	<1	<10	2.59	11	101	1.19	0.03	0.75	0.39	0.088	<10	2	<10
26728	7.0	6.2	4860	363	<2	2260	100	573	2.47	<10	17	<1	<10	0.78	359	263	15.8	0.12	2.38	0.06	0.011	<10	2	<10
26729	5.8	37.3	3900	215	<2	5410	111	1790	1.42	<10	20	<1	<10	0.24	264	38	30.2	0.30	1.08	0.04	0.019	<10	4	14
26730	<0.2	<0.5	9	11	<2	6	<2	3	0.06	<10	10	<1	<10	0.04	<1	2	0.07	0.01	0.02	0.01	0.004	<10	<1	<10
26731	6.1	37.0	4110	314	<2	3660	148	1650	1.67	<10	14	<1	<10	0.93	726	46	26.2	0.08	1.08	0.05	0.017	<10	4	15
26732	9.7	15.8	4140	454	<2	930	399	894	3.10	<10	16	<1	11	2.04	56	49	10.8	0.08	1.48	0.17	0.020	<10	6	<10
26733	14.6	23.4	8120	211	<2	1890	226	1450	2.34	<10	12	<1	<10	1.07	272	44	16.7	0.05	0.63	0.19	0.012	<10	3	<10
26734	7.2	33.9	4120	340	<2	2060	169	1850	2.46	<10	14	<1	<10	1.49	314	33	17.7	0.05	1.04	0.12	0.016	<10	6	12
26735	6.4	10.2	3030	458	<2	1230	163	931	2.68	<10	16	<1	<10	1.03	177	49	13.5	0.08	1.39	0.07	0.024	<10	6	<10
26736	5.9	15.5	5240	226	<2	1270	38	887	1.62	<10	33	<1	<10	1.08	115	48	11.2	0.24	1.15	0.04	0.068	<10	6	<10
26737	10.8	14.9	7160	351	<2	1420	74	964	1.70	<10	25	<1	<10	1.54	202	31	13.0	0.09	1.16	0.12	0.021	<10	6	13
27239	<0.2	0.6	358	478	<2	28	3	46	1.91	<10	88	<1	<10	1.70	28	28	6.86	0.23	1.15	0.15	0.133	<10	11	<10
27240	0.6	0.6	1630	302	<2	1640	4	27	5.63	<10	22	<1	<10	2.81	51	142	3.66	0.03	3.25	0.33	0.003	<10	3	<10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
27241	< 0.2	0.5	109	493	< 2	17	< 2	34	2.26	< 10	50	< 1	< 10	1.89	29	32	5.46	0.10	1.16	0.10	0.123	< 10	10	< 10
27242	< 0.2	0.7	160	494	< 2	20	< 2	50	1.68	< 10	135	< 1	< 10	1.60	27	26	6.47	0.43	1.26	0.18	0.134	< 10	12	< 10
27243	< 0.2	< 0.5	131	316	< 2	11	< 2	32	1.44	< 10	127	< 1	< 10	1.40	22	29	4.68	0.25	0.97	0.15	0.129	< 10	11	< 10
27244	< 0.2	0.6	57	525	< 2	12	< 2	41	1.73	< 10	171	< 1	< 10	1.67	21	40	5.15	0.26	1.01	0.20	0.125	< 10	12	< 10
27245	< 0.2	0.8	123	155	< 2	410	< 2	36	2.61	< 10	10	< 1	< 10	0.07	52	343	4.93	< 0.01	3.88	0.01	0.008	< 10	< 1	< 10
27246	0.3	< 0.5	447	142	< 2	194	< 2	24	1.61	< 10	30	< 1	< 10	0.77	24	158	1.88	0.10	2.12	0.09	0.066	< 10	1	< 10
27247	< 0.2	< 0.5	50	69	< 2	158	< 2	12	0.50	< 10	27	< 1	< 10	0.48	16	149	1.06	0.11	0.85	0.06	0.097	< 10	1	< 10
27248	< 0.2	< 0.5	62	167	< 2	182	< 2	24	3.45	< 10	18	< 1	< 10	2.08	22	193	2.08	0.04	2.43	0.14	0.099	< 10	2	< 10
27298	0.3	< 0.5	133	105	< 2	103	5	12	5.63	< 10	13	< 1	< 10	4.38	14	92	1.06	0.52	0.70	0.55	0.009	< 10	3	< 10
27299	0.4	< 0.5	241	74	< 2	104	7	16	6.01	< 10	55	< 1	< 10	4.41	14	76	1.14	0.19	0.67	0.49	0.013	< 10	2	< 10
27300	1.0	1.7	8930	245	2	> 10000	8	40	0.47	< 10	13	< 1	< 10	0.35	500	31	33.2	0.11	0.15	0.08	0.047	< 10	3	< 10
27301	< 0.2	< 0.5	62	93	< 2	73	8	13	5.35	< 10	23	< 1	< 10	4.35	10	100	1.10	0.06	0.80	0.59	0.010	< 10	3	< 10
27302	< 0.2	< 0.5	82	89	< 2	65	8	11	5.70	< 10	11	< 1	< 10	4.35	10	95	0.95	0.01	0.79	0.59	0.010	< 10	3	< 10
27303	0.7	< 0.5	291	83	< 2	134	11	17	6.14	< 10	39	< 1	< 10	4.51	19	80	1.29	0.11	1.04	0.42	0.009	< 10	2	< 10
27304	0.4	< 0.5	176	98	< 2	61	8	11	4.10	< 10	16	< 1	< 10	3.20	10	79	0.95	0.01	0.64	0.48	0.015	< 10	3	< 10
27305	0.5	< 0.5	324	84	< 2	144	10	13	5.64	< 10	14	< 1	< 10	4.28	18	66	1.14	0.02	0.65	0.47	0.011	< 10	3	< 10
27306	0.6	< 0.5	316	109	< 2	110	8	12	6.21	< 10	18	< 1	< 10	4.62	12	93	1.18	0.23	0.75	0.66	0.009	< 10	3	< 10
27307	1.0	0.5	494	158	< 2	210	20	32	4.77	< 10	14	< 1	< 10	3.62	24	94	1.76	0.01	0.62	0.59	0.009	< 10	3	< 10
28022	2.7	2.0	1480	307	< 2	995	22	142	3.71	< 10	50	2	< 10	1.61	96	323	7.13	1.47	3.81	0.20	0.022	< 10	2	< 10
28023	7.9	2.5	4210	548	< 2	2140	15	131	3.15	< 10	32	2	< 10	0.86	157	351	12.9	1.01	3.63	0.15	0.022	< 10	4	26
28024	12.8	5.7	6940	733	< 2	2530	22	216	2.41	< 10	29	3	< 10	0.89	158	182	13.2	0.90	2.10	0.10	0.019	< 10	7	68
28025	3.5	2.5	1250	120	< 2	193	74	114	0.46	32	8	< 1	< 10	0.12	20	120	1.05	0.18	0.06	0.05	0.006	< 10	1	40
28026	< 0.2	< 0.5	48	149	< 2	17	12	6	0.25	< 10	6	< 1	< 10	0.11	1	84	0.25	0.09	0.03	0.05	0.012	< 10	1	< 10
28027	< 0.2	< 0.5	11	126	< 2	6	9	3	0.28	< 10	6	2	< 10	0.07	< 1	100	0.22	0.10	0.02	0.06	0.02	< 10	1	11
28028	0.5	1.0	232	302	< 2	44	47	56	0.44	15	9	< 1	< 10	0.10	5	110	0.52	0.13	0.14	0.05	0.010	< 10	1	23
28029	0.2	< 0.5	43	357	< 2	10	11	6	0.21	< 10	6	2	< 10	0.05	< 1	162	0.26	0.06	0.02	0.06	0.006	< 10	< 1	< 10
28030	< 0.2	< 0.5	3	158	< 2	2	35	8	0.04	< 10	89	< 1	< 10	9.38	< 1	21	0.05	< 0.01	5.98	0.02	0.005	< 10	< 1	< 10
28031	6.1	4.8	2930	696	< 2	1920	8	128	4.31	< 10	35	4	< 10	1.29	65	508	7.41	1.95	5.40	0.05	0.016	< 10	2	19
28165	0.6	2.0	231	505	< 2	213	60	144	3.85	< 10	82	< 1	< 10	2.18	25	250	3.88	0.51	3.00	0.14	0.093	< 10	3	< 10
28167	< 0.2	0.5	107	396	< 2	15	29	86	2.34	< 10	126	< 1	< 10	0.55	6	65	3.43	0.57	2.63	0.08	0.012	< 10	6	< 10
28168	< 0.2	< 0.5	25	478	< 2	6	36	82	2.65	< 10	120	< 1	< 10	0.56	6	67	3.60	0.53	2.63	0.09	0.011	< 10	8	< 10
28169	24.7	12.0	6980	531	< 2	237	401	262	2.75	< 10	82	< 1	172	1.13	12	86	4.56	0.30	2.85	0.07	0.015	< 10	3	21
28170	0.9	0.5	1680	298	< 2	1630	4	28	5.61	< 10	21	< 1	< 10	2.75	49	142	3.63	0.03	3.25	0.32	0.003	< 10	3	< 10
28171	7.7	5.5	1950	539	< 2	71	157	198	3.14	< 10	142	< 1	36	0.65	7	60	4.35	0.44	3.15	0.08	0.014	< 10	9	12
28172	4.8	4.5	2240	271	2	2690	71	140	2.47	< 10	25	< 1	< 10	0.85	51	75	11.5	0.39	2.17	0.11	0.024	< 10	5	< 10
28173	6.2	7.5	7400	173	< 2	7640	48	200	1.31	< 10	28	< 1	< 10	0.38	235	84	25.5	0.14	1.01	0.06	0.008	< 10	2	< 10
28174	13.2	7.4	> 10000	213	< 2	6300	44	235	1.38	< 10	19	< 1	< 10	0.44	388	195	24.3	0.09	1.25	0.07	0.011	< 10	3	< 10
28175	9.3	5.5	7700	279	< 2	1310	101	228	2.41	< 10	28	< 1	< 10	1.31	141	214	8.35	0.14	1.71	0.19	0.015	< 10	4	< 10
28186	1.3	1.3	239	679	< 2	977	78	88	4.66	11	13	< 1	< 10	0.72	42	19	13.6	0.05	5.64	0.02	0.157	< 10	16	39
28187	< 0.2	< 0.5	87	279	< 2	61	7	29	1.19	< 10	10	< 1	< 10	0.25	6	138	2.41	0.02	1.25	0.02	0.003	< 10	3	< 10
28188	< 0.2	0.6	82	552	< 2	45	20	197	3.44	< 10	156	1	< 10	0.27	13	60	5.44	0.69	3.05	0.06	0.036	< 10	6	16
28189	< 0.2	< 0.5	8	193	< 2	26	11	58	0.86	< 10	29	< 1	< 10	0.26	4	161	1.51	0.11	0.91	0.02	0.003	< 10	2	< 10
28200	1.0	2.0	9100	226	< 2	> 10000	8	38	0.47	< 10	22	< 1	< 10	0.33	487	30	32.9	0.11	0.15	0.08	0.045	< 10	3	< 10
30704	< 0.2	< 0.5	26	590	< 2	20	5	94	2.57	< 10	107	< 1	< 10	0.36	12	100	4.71	0.32	2.51	0.03	0.084	< 10	7	< 10
30705	< 0.2	0.8	27	510	< 2	31	15	145	2.37	< 10	17	< 1	< 10	0.34	11	91	4.12	0.07	2.45	0.03	0.021	< 10	7	15
30705	< 0.2	0.7	31	781	< 2	28	19	187	3.73	< 10	72	< 1	< 10	0.34	15	30	5.52	0.23	3.84	0.03	0.042	< 10	10	16
30707	< 0.2	0.6	56	771	< 2	11	7	130	3.21	< 10	74	< 1	< 10	0.39	16	43	5.78	0.25	3.17	0.03	0.088	< 10	8	< 10
30708	< 0.2	0.8	49	698	< 2	11	< 2	68	3.31	< 10	64	< 1	< 10	0.42	17	45	5.94	0.29	3.30	0.04	0.092	< 10	8	< 10
30705	< 0.2	< 0.5	30	513	< 2	10	3	53	2.81	< 10	94	< 1	< 10	0.33	16	38	4.64	0.40	2.65	0.03	0.087	< 10	7	< 10
30710	< 0.2	< 0.5	1	185	< 2	2	9	11	0.04	< 10	94	< 1	< 10	8.77	< 1	26	0.08	0.01	5.97	0.02	0.006	< 10	< 1	< 10
30711	< 0.2	< 0.5	23	398	3	28	6	158	1.35	< 10	24	< 1	< 10	0.59	6	133	2.61	0.12	1.20	0.02	0.015	< 10	3	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24831	25	0.05	25	< 10	4	2	0.177
24832	22	0.12	90	< 10	5	3	2.551
24833	18	0.08	32	< 10	2	2	0.036
24834	14	0.08	24	< 10	3	3	0.050
24835	22	0.12	37	< 10	4	4	0.202
24836	29	0.10	25	< 10	3	4	0.271
24837	23	0.06	34	< 10	4	2	0.522
24838	22	0.09	39	< 10	4	3	1.592
24839	27	0.10	51	< 10	3	3	1.290
24840	69	< 0.01	34	< 10	< 1	1	0.620
24841	28	0.10	48	< 10	3	2	0.974
24842	17	0.13	56	< 10	3	2	0.571
24843	27	0.11	43	< 10	3	2	0.599
24844	16	0.13	53	< 10	5	3	1.379
24845	23	0.06	26	< 10	5	3	0.496
24846	12	0.09	29	< 10	3	2	0.142
24847	9	0.07	17	< 10	3	2	0.042
24848	45	0.02	20	< 10	2	1	0.760
24849	5	0.03	20	< 10	< 1	1	1.400
24850	15	0.06	61	< 10	10	17	9.979
24851	12	0.03	17	< 10	< 1	2	1.192
24852	7	0.02	20	< 10	< 1	2	2.797
24853	4	0.02	22	< 10	< 1	2	1.719
24854	4	0.02	17	< 10	< 1	2	1.833
24855	9	0.03	25	< 10	2	2	0.886
24856	38	0.02	30	< 10	1	2	1.189
24857	14	0.07	146	< 10	1	2	1.091
24858	28	0.05	77	< 10	2	1	1.948
24859	29	0.08	82	< 10	3	1	0.861
24860	103	< 0.01	2	< 10	< 1	< 1	0.094
26647	71	0.04	20	< 10	2	< 1	0.116
26648	70	0.03	18	< 10	2	< 1	0.124
26649	54	0.06	75	< 10	1	< 1	0.032
26650	26	0.06	25	< 10	< 1	< 1	0.111
26651	58	0.03	20	< 10	< 1	< 1	0.042
26652	4	0.06	46	< 10	< 1	2	0.464
26653	86	0.03	13	< 10	< 1	< 1	0.045
26654	81	0.10	30	< 10	3	2	0.020
26655	57	0.06	30	< 10	< 1	< 1	0.021
26656	52	0.04	21	< 10	2	< 1	0.130
26728	12	0.05	47	< 10	1	4	7.031
26729	6	0.08	66	< 10	2	7	4.725
26730	2	< 0.01	< 1	< 10	< 1	3	0.024
26731	7	0.03	76	< 10	3	7	7.758
26732	24	0.04	108	< 10	3	3	2.804
26733	27	0.03	176	< 10	2	4	5.285
26734	18	0.03	143	< 10	2	4	2.923
26735	14	0.08	119	< 10	3	4	3.279
26736	8	0.08	100	< 10	6	3	3.150
26737	11	0.07	82	< 10	2	4	5.342
27239	9	0.16	69	< 10	22	5	0.950
27240	70	0.02	34	< 10	< 1	1	0.508

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27241	24	0.23	59	< 10	20	4	0.401
27242	7	0.17	66	< 10	22	5	0.610
27243	4	0.15	61	< 10	20	5	0.451
27244	6	0.15	67	< 10	22	5	0.182
27245	< 1	0.02	39	< 10	< 1	1	0.206
27246	11	0.04	23	< 10	2	9	0.146
27247	4	0.05	22	< 10	3	9	0.179
27248	48	0.04	23	< 10	< 1	< 1	0.030
27289	107	0.03	20	< 10	< 1	< 1	0.147
27299	105	0.04	21	< 10	< 1	< 1	0.130
27300	17	0.09	60	< 10	15	16	7.336
27301	95	0.03	20	< 10	< 1	< 1	0.096
27302	111	0.02	18	< 10	< 1	< 1	0.080
27303	106	0.03	16	< 10	< 1	< 1	0.162
27304	75	0.04	21	< 10	1	< 1	0.082
27305	105	0.03	16	< 10	< 1	< 1	0.213
27305	115	0.03	21	< 10	< 1	< 1	0.156
27307	89	0.02	20	< 10	< 1	< 1	0.426
28022	28	0.10	52	< 10	< 1	2	1.734
28023	18	0.06	50	< 10	2	4	3.371
28024	15	0.06	50	< 10	2	5	3.758
28025	3	< 0.01	2	< 10	13	6	0.598
28026	2	< 0.01	< 1	< 10	26	14	0.036
28027	2	< 0.01	< 1	< 10	40	14	0.015
28028	3	< 0.01	2	< 10	26	15	0.120
28029	2	< 0.01	< 1	< 10	5	6	0.018
28030	87	< 0.01	1	< 10	< 1	< 1	0.074
28031	29	0.08	45	< 10	< 1	2	1.221
28165	78	0.15	52	< 10	4	6	0.308
28167	17	0.10	12	< 10	7	6	0.071
28168	15	0.13	9	< 10	8	7	0.024
28169	18	0.09	5	< 10	17	7	0.870
28170	72	0.02	33	< 10	< 1	1	0.492
28171	24	0.11	10	< 10	13	6	0.306
28172	18	0.11	30	< 10	9	6	3.895
28173	9	0.03	23	< 10	2	6	3.250
28174	10	0.04	35	< 10	2	6	4.892
28175	34	0.05	29	< 10	2	3	3.734
28196	5	0.26	122	< 10	19	4	2.396
28197	2	0.04	18	< 10	3	4	0.222
28198	17	0.11	60	< 10	14	6	0.178
28199	3	0.05	18	< 10	4	2	0.030
28200	17	0.08	59	< 10	15	16	5.185
30704	5	0.11	63	< 10	14	5	0.090
30705	3	0.15	53	< 10	12	4	0.188
30705	10	0.15	76	< 10	21	6	0.088
30707	6	0.11	66	< 10	15	5	0.147
30708	8	0.15	68	< 10	16	5	0.238
30708	7	0.12	64	< 10	16	5	0.176
30710	64	< 0.01	1	< 10	< 1	< 1	0.079
30711	4	0.05	22	< 10	6	3	0.060

Activation Laboratories Ltd. Report: A08-4050

Quality Control

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
	ppm 0.2	ppm 0.5	ppm 1	ppm 2	ppm 2	ppm 1	ppm 2	ppm 1	% 0.01	ppm 10	ppm 1	ppm 1	ppm 1	% 0.01	ppm 1	ppm 2	% 0.01	% 0.01	% 0.01	% 0.01	% 0.01	ppm 10	ppm 1	ppm 10
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.9	3.3	1210	820	15	36	839	856	0.34	393	279	1	1480	0.81	8	7	27.0	0.03	0.14	0.06	0.043	81	1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	0.32	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-1 Meas	29.0	3.3	1160	756	15	32	587	626	0.32	348	213	<1	1440	0.74	8	6	24.4	0.02	0.13	0.05	0.036	73	1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	0.32	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0620	0.0650	122	1.68	54.0
GXR-4 Meas	3.3	0.7	6620	146	335	41	45	69	2.87	107	31	1	19	0.96	16	56	4.00	1.47	1.70	0.14	0.128	<10	6	<10
GXR-4 Cert	4.20	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.68	0.964	0.120	4.80	7.70	5.60
GXR-4 Meas	3.8	0.7	6210	130	330	37	42	65	2.58	96	30	1	27	0.88	15	53	3.45	1.39	1.63	0.12	0.119	<10	7	<10
GXR-4 Cert	4.20	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.68	0.964	0.120	4.80	7.70	5.60
GXR-2 Meas	17.1	4.5	77	967	<2	18	731	514	3.18	10	1200	1	<10	0.78	9	26	2.00	0.54	0.52	0.25	0.056	28	4	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	36.0	1.86	1.37	3.850	0.556	0.105	49.0	8.88	1.70
GXR-2 Meas	18.0	3.9	68	913	<2	15	852	488	2.93	10	1160	<1	<10	0.72	8	23	1.82	0.45	0.46	0.22	0.048	24	4	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	36.0	1.86	1.37	3.850	0.556	0.105	49.0	8.88	1.70
GXR-6 Meas	0.3	0.5	72	1040	<2	24	96	123	6.72	244	891	1	<10	0.15	14	87	6.61	0.94	0.42	0.13	0.034	<10	21	<10
GXR-6 Cert	1.30	1.00	68.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	3.609	0.104	0.0360	3.80	27.8	1.70
GXR-6 Meas	0.4	0.5	71	995	<2	25	97	125	6.75	231	883	<1	<10	0.15	15	83	8.35	0.88	0.41	0.12	0.032	<10	22	<10
GXR-6 Cert	1.30	1.00	68.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	3.609	0.104	0.0360	3.80	27.8	1.70
OREAS 13P Meas			2680				2300										5.96							
OREAS 13P Cert			2500				2260										7.58							
OREAS 13P Meas			2820				2220										8.18							
OREAS 13P Cert			2500				2260										7.58							
24840 Orig	0.7	<0.5	1760	305	<2	1740	4	28	5.47	<10	20	<1	<10	2.84	52	151	3.65	0.03	3.33	0.36	0.003	<10	3	<10
24840 Dup	0.6	0.6	1690	300	<2	1720	4	26	5.35	<10	20	<1	<10	2.81	51	149	3.55	0.03	3.28	0.35	0.003	<10	3	<10
24840 Orig																								
24840 Dup																								
24853 Orig	5.6	2.0	2040	192	<2	1440	9	53	2.25	<10	7	<1	<10	0.75	53	275	5.54	0.01	2.73	0.06	0.006	<10	3	<10
24853 Dup	5.5	2.4	2010	191	<2	1440	6	52	2.24	<10	7	<1	<10	0.73	53	276	5.62	0.01	2.68	0.06	0.006	<10	3	<10
26663 Orig	<0.2	<0.5	28	8*	<2	29	<2	6	4.27	<10	20	<1	<10	3.16	6	81	0.72	0.04	0.68	0.40	0.014	<10	2	<10
26663 Dup	<0.2	<0.5	25	59	<2	28	<2	6	4.33	<10	19	<1	<10	3.23	6	81	0.72	0.04	0.58	0.49	0.014	<10	2	<10
27248 Orig	<0.2	<0.5	61	167	<2	179	<2	24	3.43	<10	18	<1	<10	2.06	22	133	2.05	0.04	2.40	0.14	0.009	<10	2	<10
27248 Dup	<0.2	<0.5	62	168	<2	186	<2	24	3.60	<10	19	<1	<10	2.11	22	134	2.11	0.04	2.45	0.16	0.009	<10	2	<10
28025 Orig	3.5	2.5	1270	120	<2	198	74	116	0.45	32	7	<1	<10	0.12	21	118	1.07	0.18	0.07	0.06	0.008	<10	1	40
28025 Dup	3.5	2.5	1230	121	<2	190	74	111	0.46	32	8	<1	<10	0.12	20	121	1.05	0.18	0.06	0.05	0.007	<10	1	41
28172 Orig	4.6	4.5	2210	280	2	2670	72	138	2.45	<10	27	<1	<10	0.85	51	76	11.3	0.39	2.15	0.11	0.024	<10	6	<10
28172 Dup	4.6	4.4	2270	262	2	2710	70	142	2.48	<10	23	<1	<10	0.85	51	73	11.6	0.39	2.18	0.10	0.024	<10	6	<10
30709 Orig	<0.2	<0.5	30	503	<2	10	3	53	2.76	<10	92	<1	<10	0.32	16	37	4.58	0.40	2.81	0.03	0.085	<10	7	<10
30709 Dup	<0.2	<0.5	31	522	<2	10	2	54	2.68	<10	95	<1	<10	0.34	16	40	4.70	0.41	2.89	0.03	0.089	<10	7	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	196		78	162	24	14	0.227
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-1 Meas	157		77	124	23	13	0.197
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	83		85	17	12	11	1.979
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-4 Meas	76		84	13	11	10	1.826
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	87		48	< 10	11	11	0.037
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-2 Meas	83		43	< 10	9	10	0.031
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	30		177	< 10	6	13	0.018
GXR-6 Cert	36.0		186	1.90	14.0	110	0.0160
GXR-6 Meas	30		178	< 10	6	12	0.017
GXR-6 Cert	36.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
OREAS 13P Meas							
OREAS 13P Cert							
24840 Orig	70	0.02	34	< 10	< 1	1	0.525
24840 Dup	68	0.02	33	< 10	< 1	1	0.516
24840 Orig		< 0.01					
24840 Dup		< 0.01					
24853 Orig	4	0.02	23	< 10	< 1	2	1.773
24853 Dup	4	0.02	22	< 10	< 1	2	1.666
28663 Orig	85	0.03	13	< 10	< 1	< 1	0.047
28663 Dup	86	0.03	13	< 10	< 1	< 1	0.044
27248 Orig	48	0.04	23	< 10	< 1	< 1	0.031
27248 Dup	49	0.04	23	< 10	< 1	< 1	0.030
28025 Orig	3	< 0.01	2	< 10	13	8	0.022
28025 Dup	3	< 0.01	1	< 10	13	7	0.024
28172 Orig	18	0.11	30	< 10	8	6	3.700
28172 Dup	18	0.11	31	< 10	8	6	4.291
30709 Orig	7	0.11	63	< 10	15	5	0.181
30709 Dup	8	0.12	65	< 10	16	5	0.171
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 14-Jul-08
Invoice No.: A08-4051
Invoice Date: 08-Aug-08
Your Reference: DOSSIER #22795

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

89 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4051**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4051

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26716	12.1	7.2	4770	223	< 2	965	243	163	3.46	< 10	11	< 1	< 10	2.48	78	172	5.54	0.02	1.32	0.42	0.009	< 10	4	< 10
26719	9.3	4.9	3800	138	< 2	906	218	111	3.15	< 10	10	< 1	< 10	2.25	72	120	4.67	0.01	1.19	0.39	0.007	< 10	4	< 10
26720	0.7	< 0.5	1720	307	< 2	1700	7	28	5.54	< 10	20	< 1	< 10	2.88	54	147	3.71	0.03	3.98	0.32	0.003	< 10	3	< 10
26721	5.9	3.5	2480	160	< 2	421	217	75	4.04	< 10	12	< 1	< 10	3.03	31	104	2.63	0.01	0.86	0.55	0.008	< 10	4	< 10
26722	4.6	4.2	2170	235	< 2	618	135	97	3.05	< 10	13	< 1	< 10	2.37	89	121	4.54	0.02	1.38	0.36	0.008	< 10	5	< 10
26723	4.3	3.6	2380	114	< 2	760	188	70	5.39	< 10	18	< 1	< 10	3.87	70	103	3.87	0.04	0.56	0.50	0.008	< 10	3	< 10
26724	4.9	6.6	3070	134	< 2	783	165	95	4.25	< 10	13	< 1	< 10	3.04	70	123	4.38	0.02	0.90	0.47	0.006	< 10	4	< 10
26725	5.2	6.9	3490	219	< 2	877	163	94	3.64	< 10	13	< 1	< 10	2.67	77	164	6.89	0.01	1.03	0.40	0.007	< 10	4	< 10
26726	6.2	5.5	4190	265	< 2	967	140	206	2.69	< 10	21	< 1	< 10	1.67	87	484	7.37	0.08	2.22	0.18	0.006	< 10	4	< 10
26727	2.1	1.9	1060	322	< 2	866	110	344	2.85	< 10	25	< 1	< 10	0.91	81	641	7.86	0.10	3.26	0.07	0.008	< 10	2	< 10
26738	10.0	14.1	5990	425	< 2	1140	122	985	1.78	< 10	28	< 1	< 10	1.14	153	50	11.3	0.11	1.33	0.07	0.047	< 10	7	< 10
26739	12.6	28.7	> 10000	105	< 2	8290	17	1570	0.34	< 10	6	< 1	< 10	2.41	613	69	33.0	0.04	0.43	0.01	0.021	< 10	1	12
26740	0.7	< 0.5	1610	301	< 2	1670	5	29	5.41	< 10	21	< 1	< 10	2.79	53	143	3.62	0.03	3.27	0.32	0.003	< 10	3	< 10
26741	2.6	3.3	1910	332	2	212	25	281	2.42	< 10	82	< 1	< 10	0.64	23	127	4.21	0.46	2.12	0.08	0.024	< 10	5	< 10
26742	0.3	1.1	226	276	4	175	< 2	79	2.41	< 10	198	< 1	< 10	0.23	21	95	3.90	0.59	1.85	0.05	0.041	< 10	4	< 10
26743	< 0.2	< 0.5	26	362	< 2	19	3	53	2.23	< 10	177	< 1	< 10	0.30	8	93	3.60	0.63	1.98	0.07	0.043	< 10	7	< 10
26744	< 0.2	0.5	101	543	< 2	55	4	75	2.99	< 10	74	< 1	< 10	1.90	23	64	5.54	0.29	2.38	0.09	0.044	< 10	13	< 10
26745	< 0.2	< 0.5	132	576	< 2	66	3	49	2.66	< 10	14	< 1	< 10	2.45	27	86	5.11	0.05	1.81	0.19	0.038	< 10	11	< 10
26746	< 0.2	< 0.5	142	578	< 2	54	< 2	42	2.23	< 10	8	< 1	< 10	1.88	26	80	5.10	0.02	1.79	0.09	0.036	< 10	9	< 10
26747	0.3	< 0.5	363	500	< 2	57	2	41	2.71	< 10	12	< 1	< 10	2.33	27	102	4.88	0.03	2.05	0.13	0.034	< 10	9	< 10
26962	0.4	< 0.5	224	50	< 2	78	8	10	6.74	< 10	18	< 1	< 10	5.19	12	131	0.77	0.04	0.42	0.48	0.010	< 10	2	< 10
26963	0.2	< 0.5	128	115	< 2	66	8	12	6.84	< 10	24	< 1	< 10	5.32	10	177	1.14	0.05	0.65	0.34	0.012	< 10	3	< 10
26964	0.3	< 0.5	122	275	< 2	38	4	31	2.63	< 10	133	< 1	< 10	0.79	14	160	3.49	0.45	2.52	0.11	0.024	< 10	7	< 10
26965	0.3	< 0.5	212	162	< 2	36	8	29	2.07	< 10	143	< 1	< 10	0.67	12	94	2.38	0.34	1.68	0.14	0.017	< 10	5	< 10
26995	3.6	3.0	1700	232	< 2	835	30	178	1.73	< 10	50	< 1	< 10	1.27	70	256	3.19	0.26	1.32	0.08	0.007	< 10	7	< 10
26997	5.4	4.8	2640	346	< 2	1280	31	270	3.07	< 10	20	< 1	< 10	1.51	85	296	5.19	0.43	2.60	0.18	0.007	< 10	6	< 10
26998	0.5	0.9	239	250	< 2	258	25	150	2.42	< 10	161	< 1	< 10	1.19	28	279	3.17	0.68	2.40	0.17	0.075	< 10	3	< 10
26999	12.3	5.4	6600	185	< 2	1610	109	225	3.65	< 10	28	< 1	< 10	2.53	89	165	7.30	0.12	1.31	0.36	0.008	< 10	4	< 10
27000	1.0	2.1	8780	269	< 2	> 10000	9	42	0.47	< 10	3	< 1	< 10	0.36	613	53	33.3	0.11	0.15	0.07	0.047	< 10	4	< 10
27249	< 0.2	< 0.5	94	161	< 2	53	< 2	13	3.43	< 10	17	< 1	< 10	2.94	11	87	1.33	0.02	0.72	0.49	0.016	< 10	4	< 10
27260	0.9	1.8	8660	274	< 2	> 10000	8	42	0.46	< 10	4	< 1	< 10	0.36	616	33	33.3	0.11	0.16	0.07	0.046	< 10	4	< 10
27261	< 0.2	< 0.5	108	149	< 2	41	< 2	11	3.77	< 10	19	< 1	< 10	2.91	10	72	1.21	0.02	0.70	0.48	0.015	< 10	5	< 10
27262	< 0.2	< 0.5	245	149	< 2	70	< 2	13	4.30	< 10	18	< 1	< 10	3.31	17	194	1.51	0.03	1.02	0.36	0.013	< 10	4	< 10
27263	< 0.2	< 0.5	116	207	< 2	34	< 2	10	3.68	< 10	20	< 1	< 10	2.89	10	71	1.54	0.01	0.93	0.40	0.016	< 10	6	< 10
27264	< 0.2	< 0.5	27	145	< 2	27	< 2	9	2.89	< 10	10	< 1	< 10	2.47	8	63	1.02	< 0.01	0.84	0.42	0.012	< 10	5	< 10
27265	< 0.2	< 0.5	129	70	< 2	45	3	9	5.65	< 10	41	< 1	< 10	4.24	9	184	0.97	0.10	0.75	0.66	0.009	< 10	3	< 10
27266	< 0.2	< 0.5	47	54	< 2	64	2	12	5.78	< 10	73	< 1	< 10	4.06	16	266	1.14	0.21	0.93	0.53	0.009	< 10	2	< 10
27267	< 0.2	< 0.5	48	63	< 2	77	4	13	7.39	< 10	78	< 1	< 10	5.11	16	300	1.23	0.23	0.85	0.86	0.011	< 10	3	< 10
27268	< 0.2	< 0.5	29	42	< 2	48	4	9	6.71	< 10	27	< 1	< 10	4.88	7	126	0.80	0.10	0.66	0.53	0.005	< 10	2	< 10
27269	< 0.2	< 0.5	285	77	< 2	97	< 2	17	6.83	< 10	82	< 1	< 10	4.24	15	224	1.78	0.29	1.88	0.47	0.007	< 10	2	< 10
27260	< 0.2	< 0.5	4	229	< 2	3	3	7	0.08	< 10	100	< 1	< 10	11.1	< 1	18	0.06	< 0.01	7.24	0.03	0.004	< 10	< 1	< 10
27261	< 0.2	< 0.5	120	86	< 2	66	5	10	4.83	< 10	15	< 1	< 10	3.68	13	119	1.01	0.02	0.68	0.52	0.004	< 10	3	< 10
27262	< 0.2	< 0.5	374	105	< 2	123	5	10	5.81	< 10	13	< 1	< 10	4.31	31	122	1.20	0.21	0.57	0.69	0.003	< 10	3	< 10
27263	< 0.2	< 0.5	196	05	< 2	51	3	12	5.94	< 10	13	< 1	< 10	4.47	11	97	0.77	0.01	0.54	0.62	0.005	< 10	2	< 10
27264	< 0.2	< 0.5	151	109	< 2	69	< 2	10	3.97	< 10	12	< 1	< 10	2.99	13	116	1.05	0.01	0.75	0.56	0.007	< 10	3	< 10
27265	0.3	< 0.5	405	96	< 2	55	3	9	5.60	< 10	17	< 1	< 10	4.02	14	117	1.05	0.01	0.71	0.67	0.006	< 10	2	< 10
27266	0.4	< 0.5	569	78	< 2	160	2	12	5.33	< 10	18	< 1	< 10	3.95	16	96	1.02	0.02	0.62	0.60	0.009	< 10	2	< 10
27267	0.4	< 0.5	384	59	< 2	188	3	12	5.87	< 10	13	< 1	< 10	4.17	13	86	0.82	0.01	0.48	0.60	0.005	< 10	2	< 10
28487	< 0.2	< 0.5	17	53	< 2	28	< 2	6	6.28	< 10	12	< 1	< 10	4.65	6	108	0.68	0.02	0.57	0.62	0.008	< 10	2	< 10
27268	< 0.2	< 0.5	112	54	< 2	38	3	7	5.85	< 10	15	< 1	< 10	4.20	7	61	0.57	0.02	0.44	0.58	0.005	< 10	2	< 10
27269	< 0.2	< 0.5	117	56	< 2	50	< 2	7	3.87	< 10	17	< 1	< 10	2.75	9	35	0.56	< 0.01	0.34	0.45	0.017	< 10	1	< 10
27270	0.7	< 0.5	1680	302	< 2	1660	5	27	5.46	< 10	22	< 1	< 10	2.83	52									

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
27271	< 0.2	< 0.5	51	190	< 2	76	< 2	20	5.57	< 10	17	< 1	< 10	4.16	12	165	1.89	0.05	1.67	0.43	0.005	< 10	2	< 10
27272	< 0.2	< 0.5	46	144	3	32	< 2	17	2.60	< 10	193	< 1	< 10	0.83	10	113	2.30	0.51	1.90	0.12	0.023	< 10	6	< 10
27273	0.3	< 0.5	320	135	< 2	92	2	25	4.75	< 10	138	< 1	< 10	2.73	16	257	2.72	0.57	2.08	0.26	0.013	< 10	6	< 10
27274	< 0.2	< 0.5	212	116	3	22	2	21	1.65	< 10	82	< 1	< 10	0.26	10	94	2.02	0.43	1.43	0.10	0.019	< 10	4	< 10
27275	0.5	< 0.5	449	117	< 2	66	3	23	5.15	< 10	79	< 1	< 10	3.29	15	186	2.19	0.40	1.63	0.34	0.007	< 10	5	< 10
27276	0.2	< 0.5	168	63	< 2	57	2	10	6.68	< 10	27	< 1	< 10	4.96	8	147	0.77	0.29	0.65	0.54	0.005	< 10	2	< 10
27277	0.3	< 0.5	297	80	< 2	62	< 2	34	5.95	< 10	138	< 1	< 10	3.14	17	367	2.62	0.95	2.56	0.41	0.020	< 10	6	< 10
27288	0.4	0.5	238	228	< 2	38	2	40	2.94	< 10	540	< 1	< 10	0.18	13	94	3.18	0.96	2.06	0.13	0.012	< 10	8	< 10
27289	0.3	< 0.5	178	140	< 2	101	4	25	6.30	< 10	123	< 1	< 10	3.94	18	534	2.32	0.48	1.84	0.36	0.009	< 10	5	< 10
27290	0.8	0.5	1060	304	< 2	1660	< 2	29	5.66	< 10	22	< 1	< 10	2.82	57	147	3.65	0.03	3.30	0.34	0.003	< 10	3	< 10
27291	0.8	< 0.5	504	87	< 2	122	7	18	7.23	< 10	43	< 1	< 10	5.21	18	164	1.29	0.20	0.78	0.62	0.009	< 10	2	< 10
27292	0.3	< 0.5	166	66	< 2	56	5	11	6.69	< 10	27	< 1	< 10	4.84	9	121	0.92	0.13	0.67	0.60	0.010	< 10	2	< 10
27293	0.7	< 0.5	441	77	< 2	128	6	13	6.15	< 10	28	< 1	< 10	4.57	14	106	1.10	0.06	0.63	0.60	0.012	< 10	2	< 10
27294	< 0.2	< 0.5	100	75	< 2	59	3	11	5.65	< 10	33	< 1	< 10	4.17	10	101	1.00	0.09	0.72	0.60	0.010	< 10	2	< 10
27295	< 0.2	< 0.5	120	72	< 2	63	9	10	5.27	< 10	40	< 1	< 10	3.94	9	93	0.89	0.07	0.60	0.63	0.012	< 10	2	< 10
27296	0.2	< 0.5	140	76	< 2	76	4	11	5.12	< 10	36	< 1	< 10	3.82	10	78	0.88	0.04	0.66	0.61	0.012	< 10	3	< 10
27297	< 0.2	< 0.5	141	62	< 2	96	3	12	6.02	< 10	33	< 1	< 10	4.56	14	76	0.96	0.10	0.62	0.48	0.009	< 10	2	< 10
27318	5.6	3.6	3670	177	< 2	1000	67	126	4.08	< 10	15	< 1	< 10	3.33	73	86	5.39	0.02	0.72	0.36	0.008	< 10	4	< 10
27319	5.3	4.4	2820	143	< 2	1090	111	138	4.43	< 10	22	< 1	< 10	3.47	96	98	5.15	0.03	0.84	0.52	0.008	< 10	3	< 10
27320	0.8	< 0.5	1540	297	< 2	1640	6	27	5.23	< 10	22	< 1	< 10	2.77	51	142	3.61	0.03	3.23	0.32	0.003	< 10	3	< 10
27321	8.8	8.7	4420	189	< 2	367	126	281	3.44	< 10	25	< 1	< 10	2.81	42	123	2.95	0.04	0.86	0.52	0.010	< 10	4	< 10
27322	5.0	3.9	2080	163	< 2	672	156	133	4.45	< 10	18	< 1	< 10	3.57	39	108	3.63	0.02	0.65	0.50	0.012	< 10	4	< 10
27323	12.4	9.0	6920	150	< 2	1590	166	292	2.96	< 10	19	< 1	< 10	2.22	169	105	7.79	0.06	0.77	0.45	0.008	< 10	3	< 10
27324	6.2	5.1	2970	158	< 2	1280	159	175	4.24	< 10	25	< 1	< 10	3.42	57	97	5.90	0.09	0.72	0.43	0.008	< 10	4	< 10
27325	7.4	6.6	4100	174	< 2	1140	153	225	4.49	< 10	14	< 1	< 10	3.64	75	86	5.66	0.01	0.70	0.45	0.012	< 10	4	< 10
27326	8.9	7.3	4780	141	< 2	2450	146	258	3.49	< 10	8.9	< 1	< 10	2.66	119	76	9.76	0.01	0.62	0.49	0.008	< 10	3	< 10
27327	10.4	7.9	5580	156	< 2	2630	150	250	2.87	< 10	11	< 1	< 10	2.25	140	88	10.4	0.01	0.65	0.40	0.009	< 10	4	< 10
27328	9.2	8.0	4530	167	< 2	1940	170	288	3.24	< 10	11	< 1	< 10	2.56	104	92	8.13	0.01	0.66	0.49	0.007	< 10	4	< 10
27329	6.9	4.9	3130	136	< 2	1430	174	192	3.51	< 10	11	< 1	< 10	3.04	71	82	6.37	0.01	0.65	0.51	0.009	< 10	3	< 10
27330	< 0.2	< 0.5	38	138	< 2	15	9	36	0.05	< 10	107	< 1	< 10	7.59	2	15	0.11	< 0.01	4.48	0.03	0.002	< 10	< 1	< 10
27331	19.8	14.8	> 10000	136	< 2	1270	186	533	3.70	< 10	12	< 1	< 10	2.68	346	112	8.87	0.02	0.68	0.54	0.012	< 10	3	< 10
27332	7.3	5.0	4190	169	< 2	2020	198	237	4.95	< 10	13	< 1	< 10	3.88	99	146	8.96	0.02	0.71	0.58	0.009	< 10	4	< 10
27333	15.0	10.1	> 10000	199	< 2	3430	154	401	3.45	< 10	9	< 1	< 10	2.23	239	125	15.5	0.01	0.81	0.47	0.008	< 10	4	< 10
27334	10.2	8.3	6320	170	< 2	2750	154	327	2.85	< 10	10	< 1	< 10	2.07	157	103	11.8	0.01	0.66	0.41	0.009	< 10	4	< 10
27335	10.2	9.0	5730	149	< 2	2280	172	339	2.88	< 10	11	< 1	< 10	2.15	55	98	5.46	0.01	0.66	0.42	0.018	< 10	3	< 10
27336	42.1	30.2	> 10000	184	< 2	3220	125	1010	2.12	< 10	10	< 1	< 10	1.47	228	90	17.0	0.03	0.73	0.27	0.018	< 10	4	< 10
27337	19.6	20.4	> 10000	228	< 2	2980	163	735	2.62	< 10	10	< 1	< 10	1.78	179	119	13.5	0.02	0.87	0.37	0.010	< 10	6	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26718	76	0.03	34	< 10	1	2	1.977
26719	63	0.02	24	< 10	< 1	2	1.648
26720	75	0.02	34	< 10	< 1	1	0.519
26721	83	0.02	23	< 10	< 1	< 1	0.960
26722	51	0.03	36	< 10	< 1	1	1.604
26723	95	0.02	22	< 10	< 1	1	1.411
26724	77	0.02	21	< 10	< 1	1	1.573
26725	70	0.02	31	< 10	< 1	2	1.968
26726	29	0.03	41	< 10	< 1	2	2.263
26727	10	0.05	36	< 10	< 1	2	1.770
26738	9	0.08	128	< 10	5	4	3.481
26739	5	0.03	40	< 10	4	7	7.976
26740	71	0.01	33	< 10	< 1	1	0.513
26741	15	0.11	38	< 10	13	7	0.836
26742	5	0.06	6	< 10	7	6	0.447
26743	6	0.13	22	< 10	7	7	0.022
26744	15	0.14	114	< 10	9	3	0.119
26745	26	0.11	122	< 10	7	2	0.226
26746	10	0.11	116	< 10	6	2	0.152
26747	19	0.10	110	< 10	6	2	0.175
26962	95	0.02	18	< 10	1	< 1	0.148
26963	97	0.03	26	< 10	2	< 1	0.096
26964	13	0.12	42	< 10	9	2	0.075
26965	17	0.10	31	< 10	8	2	0.066
26966	25	0.05	47	< 10	1	1	1.024
26967	36	0.06	46	< 10	< 1	2	1.721
26968	29	0.13	45	< 10	2	7	0.468
26969	62	0.03	27	< 10	< 1	2	3.196
27260	15	0.05	61	< 10	16	17	9.262
27246	50	0.04	29	< 10	2	< 1	0.116
27260	15	0.09	62	< 10	16	17	8.506
27251	58	0.04	29	< 10	2	< 1	0.110
27252	63	0.04	31	< 10	1	< 1	0.152
27253	38	0.04	35	< 10	2	< 1	0.069
27254	39	0.03	29	< 10	2	< 1	0.049
27255	72	0.03	20	< 10	< 1	< 1	0.050
27256	71	0.04	25	< 10	< 1	< 1	0.048
27257	91	0.03	29	< 10	< 1	< 1	0.089
27268	89	0.02	16	< 10	< 1	< 1	0.067
27259	81	0.05	34	< 10	< 1	< 1	0.084
27260	126	< 0.01	2	< 10	< 1	< 1	0.085
27261	73	0.01	14	< 10	< 1	< 1	0.147
27262	90	0.01	12	< 10	< 1	< 1	0.319
27263	92	0.01	11	< 10	1	< 1	0.104
27264	85	0.02	15	< 10	< 1	< 1	0.115
27265	86	0.01	13	< 10	< 1	< 1	0.137
27266	91	0.02	13	< 10	< 1	< 1	0.216
27267	98	0.01	9	< 10	< 1	< 1	0.207
28487	85	0.02	13	< 10	< 1	< 1	0.037
27268	98	0.01	8	< 10	< 1	< 1	0.071
27269	70	0.01	6	< 10	< 1	1	0.129
27270	71	0.02	34	< 10	< 1	1	0.506

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27271	65	0.02	23	< 10	< 1	< 1	0.049
27272	19	0.08	18	< 10	7	2	0.030
27273	39	0.09	45	< 10	3	1	0.157
27274	9	0.08	14	< 10	5	3	0.089
27275	52	0.06	30	< 10	3	< 1	0.267
27276	89	0.02	16	< 10	< 1	< 1	0.082
27277	52	0.11	67	< 10	2	< 1	0.061
27288	9	0.14	31	< 10	2	2	0.090
27289	51	0.06	61	< 10	3	< 1	0.197
27290	71	0.02	34	< 10	< 1	1	0.514
27291	108	0.03	25	< 10	< 1	< 1	0.245
27292	99	0.03	19	< 10	< 1	< 1	0.086
27293	104	0.03	18	< 10	< 1	< 1	0.207
27294	98	0.03	19	< 10	< 1	< 1	0.074
27295	97	0.03	18	< 10	< 1	< 1	0.085
27296	98	0.03	18	< 10	< 1	< 1	0.106
27297	113	0.02	15	< 10	< 1	< 1	0.129
27318	80	0.03	26	< 10	1	1	2.743
27319	91	0.02	19	< 10	< 1	1	2.147
27320	70	0.01	33	< 10	< 1	1	0.507
27321	76	0.03	26	< 10	< 1	1	1.174
27322	88	0.02	23	< 10	< 1	1	1.383
27323	57	0.02	20	< 10	< 1	2	4.203
27324	86	0.02	19	< 10	< 1	2	2.350
27325	98	0.02	20	< 10	1	2	2.406
27326	74	0.01	17	< 10	< 1	2	4.738
27327	81	0.02	19	< 10	< 1	3	5.265
27328	65	0.02	20	< 10	< 1	2	3.726
27329	76	0.02	17	< 10	< 1	2	2.639
27330	68	< 0.01	< 1	< 10	< 1	< 1	0.099
27331	69	0.02	20	< 10	< 1	2	6.690
27332	89	0.02	26	< 10	< 1	2	3.911
27333	61	0.02	26	< 10	< 1	4	7.252
27334	51	0.02	26	< 10	< 1	3	5.765
27335	58	0.02	23	< 10	1	3	4.392
27336	35	0.03	35	< 10	< 1	4	6.496
27337	40	0.03	30	< 10	1	3	6.838

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	29.8	3.4	1160	758	15	36	980	529	0.31	368	275	<1	1460	0.75	8	6	25.4	0.02	0.13	0.06	0.036	75	1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	4.0	0.8	6460	146	353	39	45	70	2.71	165	30	2	26	0.95	15	58	3.81	1.50	1.75	0.13	0.123	<10	7	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	22.1	4.7	84	1060	<2	18	776	581	3.29	13	1180	1	<10	0.80	10	26	2.32	0.96	0.55	0.22	0.059	31	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.4	0.5	69	990	<2	24	92	119	6.74	237	970	<1	<10	0.17	15	83	5.73	0.82	0.41	0.13	0.031	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2780			2300											6.19							
OREAS 13P Cert			2500			2280											7.58							
2674C Ong	0.7	<0.5	1620	300	<2	1660	6	30	5.37	<10	21	<1	<10	2.79	54	143	3.65	0.03	3.25	0.33	0.003	<10	3	<10
2674C Dup	0.8	<0.5	1600	302	<2	1670	4	28	5.45	<10	20	<1	<10	2.80	52	143	3.61	0.03	3.25	0.32	0.003	<10	3	<10
26668 Ong	0.5	0.5	242	249	<2	260	26	150	2.42	<10	156	<1	<10	1.19	26	279	3.20	0.68	2.35	0.17	0.076	<10	3	<10
26668 Dup	0.5	0.8	237	251	<2	267	25	150	2.42	<10	167	<1	<10	1.20	26	280	3.15	0.88	2.41	0.17	0.076	<10	3	<10
27255 Ong	<0.2	<0.5	256	81	<2	98	<2	18	6.63	<10	62	<1	<10	4.24	15	225	1.78	0.29	1.88	0.47	0.007	<10	2	<10
27255 Dup	<0.2	<0.5	252	73	<2	96	3	18	6.63	<10	62	<1	<10	4.24	15	223	1.77	0.29	1.87	0.46	0.006	<10	2	<10
27272 Ong	<0.2	<0.5	46	144	2	31	<2	17	2.01	<10	193	<1	<10	0.93	10	113	2.26	0.51	1.90	0.12	0.023	<10	6	<10
27272 Dup	<0.2	<0.5	47	143	3	32	<2	17	2.59	<10	192	<1	<10	0.93	10	113	2.32	0.51	1.91	0.13	0.024	<10	6	<10
27325 Ong	7.3	6.5	4110	175	<2	1140	151	225	4.51	<10	14	<1	<10	3.64	74	86	5.71	0.01	0.70	0.45	0.012	<10	4	<10
27325 Dup	7.4	6.7	4060	173	<2	1140	155	225	4.48	<10	14	<1	<10	3.64	75	85	5.65	0.01	0.69	0.45	0.011	<10	4	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	1	<2	<2	<1	<2	<1	<0.01	<10	8	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	158		78	129	23	13	0.198
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	80		90	18	12	11	1.957
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	93		52	< 10	11	12	0.038
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	35		180	< 10	6	13	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
26740 Orig	70	0.02	33	< 10	< 1	1	0.522
26740 Dup	72	0.01	33	< 10	< 1	1	0.505
28668 Orig	29	0.13	46	< 10	2	7	0.471
28668 Dup	29	0.13	46	< 10	2	8	0.466
27255 Orig	81	0.05	34	< 10	< 1	< 1	0.084
27255 Dup	81	0.05	34	< 10	< 1	< 1	0.084
27272 Orig	19	0.08	18	< 10	7	2	0.030
27272 Dup	19	0.08	18	< 10	7	2	0.030
27325 Orig	99	0.02	20	< 10	1	2	2.494
27325 Dup	97	0.02	20	< 10	1	2	2.317
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	0.001
Blank							



Date Submitted: 14-Jul-08
Invoice No.: A08-4051 Repeats
Invoice Date: 27-Nov-08
Your Reference: DOSSIER #22795

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

89 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT A08-4051 Repeats

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
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E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Analyte Symbol	Cu	Ni
Unit Symbol	ppm	ppm
Detection Limit	1	1
Analysis Method	AR-ICP	AR-ICP
27265	125	73
27266	141	79
27267	146	115
27318	3420	1140
27319	2830	1180
27320	1650	1760
27321	4520	317
27322	2100	746
27323	6950	1560
27324	2760	1320
27325	4220	1240

Quality Control

Analyte Symbol	Cu	Ni
Unit Symbol	ppm	ppm
Detection Limit	1	1
Analysis Method	AR-ICP	AR-ICP
GXR-1 Meas	1030	28
GXR-1 Cert	1110	41.0
GXR-4 Meas	5530	40
GXR-4 Cert	5520	42.0
GXR-2 Meas	85	16
GXR-2 Cert	76.0	21.0
GXR-6 Meas	74	20
GXR-6 Cert	66.0	27.0
OREAS 13P Meas	2420	2350
OREAS 13P Cert	2500	2260
Method Blank Method Blank	< 1	< 1
Method Blank Method Blank	< 1	< 1
Method Blank Method Blank	< 1	< 1



Date Submitted: 14-Jul-08
Invoice No.: A08-4053
Invoice Date: 01-Aug-08
Your Reference: DOSSIER #22797

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

40 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4053**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4053

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26155	1.4	1.8	663	431	<2	105	6	80	2.70	<10	109	<1	<10	1.41	28	160	4.46	0.46	2.22	0.07	0.027	<10	10	<10
26157	0.5	0.6	307	350	<2	46	6	55	2.68	<10	281	<1	<10	0.72	18	124	4.05	0.86	2.38	0.06	0.020	<10	10	<10
26158	1.7	1.2	675	402	<2	62	7	58	2.54	<10	31	<1	<10	1.38	24	147	4.25	0.10	2.13	0.05	0.043	<10	5	<10
26159	0.4	0.8	154	370	<2	66	10	54	2.62	<10	41	<1	<10	1.76	20	136	3.42	0.12	1.73	0.06	0.041	<10	6	<10
26160	<0.2	<0.5	11	227	<2	3	3	15	0.07	<10	76	<1	<10	10.1	<1	20	0.18	0.01	5.79	<0.01	0.007	<10	<1	<10
26161	0.4	0.5	318	324	<2	90	21	57	2.55	<10	86	<1	<10	2.12	28	114	3.73	0.17	1.61	0.12	0.022	<10	6	<10
26162	0.7	1.1	311	318	<2	55	26	70	3.13	<10	63	<1	<10	2.04	20	107	3.67	0.25	1.74	0.19	0.020	<10	7	<10
26163	5.4	2.7	2490	406	<2	83	20	103	2.84	<10	27	<1	<10	2.38	22	146	3.28	1.00	1.85	0.22	0.022	<10	8	<10
26164	4.9	3.1	2510	429	<2	73	20	90	2.51	<10	21	<1	<10	1.97	15	100	3.39	0.58	1.81	0.09	0.024	<10	6	<10
26165	4.3	8.9	2230	375	<2	143	60	208	3.24	<10	77	<1	<10	2.40	16	216	3.01	0.38	2.04	0.11	0.079	<10	2	<10
26655	0.3	<0.5	257	68	<2	87	2	10	8.48	<10	18	<1	<10	4.38	9	120	0.72	0.02	0.81	0.73	0.098	<10	2	<10
26657	<0.2	<0.5	187	63	<2	92	<2	8	6.65	<10	19	<1	<10	4.80	10	154	0.76	0.02	0.65	0.76	0.005	<10	2	<10
26658	<0.2	<0.5	62	88	<2	32	<2	6	6.22	<10	14	<1	<10	4.40	6	109	0.78	0.01	0.66	0.64	0.004	<10	1	<10
26659	<0.2	<0.5	129	71	<2	51	3	8	7.05	<10	15	<1	<10	4.85	7	110	0.68	0.01	0.49	0.78	0.004	<10	2	<10
26670	0.6	<0.5	1640	309	<2	1580	3	24	5.92	<10	19	<1	<10	2.88	48	141	3.37	0.03	3.26	0.33	0.003	<10	3	<10
26671	<0.2	<0.5	159	91	<2	96	<2	7	6.62	<10	16	<1	<10	4.56	13	114	0.96	<0.01	0.65	0.82	0.006	<10	2	<10
26672	<0.2	<0.5	164	73	<2	88	<2	6	6.85	<10	18	<1	<10	4.71	11	97	0.78	0.01	0.45	0.60	0.007	<10	2	<10
26673	<0.2	<0.5	108	60	<2	37	<2	5	6.70	<10	16	<1	<10	4.66	5	113	0.68	0.01	0.45	0.76	0.007	<10	2	<10
26674	<0.2	<0.5	35	99	<2	41	3	10	4.99	<10	17	<1	<10	3.40	8	140	0.98	0.04	0.90	0.56	0.009	<10	3	<10
26675	<0.2	<0.5	150	69	<2	37	3	5	5.77	<10	15	<1	<10	4.18	5	78	0.60	<0.01	0.45	0.56	0.007	<10	2	<10
26736	2.6	0.8	1050	134	<2	159	49	31	5.99	<10	12	<1	<10	4.24	21	129	1.36	0.02	0.87	0.66	0.008	<10	4	<10
26737	0.4	<0.5	151	96	<2	83	57	22	6.35	<10	16	<1	<10	4.37	8	163	1.37	0.05	0.71	0.64	0.007	<10	3	<10
26738	9.1	3.4	4800	197	<2	5470	33	137	3.17	<10	16	<1	<10	1.70	281	200	18.8	0.07	1.26	0.19	0.006	<10	3	<10
26739	4.9	3.3	3280	145	<2	1760	57	131	5.24	<10	20	<1	<10	3.34	53	279	7.94	0.08	0.95	0.43	0.008	<10	3	<10
26740	0.6	<0.5	1620	312	<2	1600	3	26	6.04	<10	22	<1	<10	2.91	49	143	3.44	0.03	3.31	0.33	0.003	<10	3	<10
26741	8.7	4.5	5810	163	<2	937	62	152	5.06	<10	13	<1	<10	3.62	118	193	5.48	0.04	1.01	0.49	0.008	<10	5	<10
26742	8.7	3.9	5310	148	<2	1740	71	139	4.71	<10	17	<1	<10	3.11	109	228	7.80	0.06	0.93	0.46	0.006	<10	4	<10
26743	12.3	4.6	7700	254	<2	1660	72	152	4.46	<10	14	<1	<10	2.89	108	249	8.40	0.04	1.41	0.37	0.007	<10	5	<10
26744	9.6	3.2	5560	236	<2	1300	81	161	5.11	<10	13	<1	<10	3.35	88	185	6.52	0.03	1.20	0.41	0.009	<10	4	<10
26745	1.9	1.2	954	222	<2	334	79	74	5.54	<10	9	<1	<10	3.95	23	151	2.50	0.02	1.07	0.52	0.012	<10	4	<10
26856	7.8	3.9	4020	166	<2	839	74	98	5.45	<10	13	<1	<10	3.44	219	326	4.97	0.05	1.64	0.27	0.005	<10	3	<10
26857	5.8	2.5	2390	176	<2	1120	88	85	5.54	<10	12	<1	<10	3.63	52	236	4.71	0.04	1.42	0.35	0.008	<10	4	<10
26858	1.0	0.7	456	317	<2	123	58	39	4.85	<10	8	<1	<10	3.67	17	167	2.98	0.02	1.43	0.27	0.014	<10	6	<10
26859	0.5	0.6	248	154	<2	172	56	36	3.02	<10	21	<1	<10	1.83	19	137	3.66	0.07	1.00	0.40	0.016	<10	3	<10
26860	<0.2	<0.5	19	98	<2	6	27	34	0.10	<10	1390	<1	<10	4.91	<1	28	0.13	<0.01	2.53	0.03	0.016	<10	<1	<10
26861	0.9	1.2	503	196	<2	327	46	54	2.56	<10	85	<1	<10	1.19	43	144	4.99	0.28	1.50	0.31	0.015	<10	5	<10
26862	0.6	1.0	282	124	<2	224	44	49	2.62	<10	128	<1	<10	1.12	28	131	3.76	0.36	1.34	0.32	0.022	<10	6	<10
26863	0.9	2.0	970	192	<2	596	77	91	3.37	<10	53	<1	<10	1.01	54	118	5.92	0.27	1.81	0.28	0.023	<10	4	<10
26864	0.8	2.0	763	295	<2	511	51	173	3.66	<10	63	<1	<10	0.33	50	66	7.35	0.53	2.90	0.08	0.016	<10	8	<10
26865	0.7	1.2	371	393	<2	125	44	103	2.75	<10	272	<1	<10	0.28	20	91	4.41	0.45	2.13	0.05	0.030	<10	8	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26155	30	0.15	115	< 10	4	3	0.335
26167	34	0.17	71	< 10	6	6	0.140
26158	34	0.13	91	< 10	6	3	0.243
26155	52	0.11	98	< 10	6	2	0.110
26160	106	< 0.01	10	< 10	< 1	< 1	0.080
26161	105	0.11	105	< 10	2	2	0.348
26162	103	0.13	87	< 10	5	3	0.190
26163	57	0.13	93	< 10	4	2	0.342
26164	33	0.12	75	< 10	5	2	0.355
26165	75	0.14	40	< 10	5	6	0.490
26655	104	0.01	14	< 10	< 1	< 1	0.101
26567	108	0.01	15	< 10	< 1	< 1	0.104
26658	94	0.01	13	< 10	< 1	< 1	0.039
26659	111	0.01	14	< 10	< 1	< 1	0.089
26670	67	0.02	35	< 10	< 1	1	0.481
26671	108	0.02	20	< 10	< 1	< 1	0.186
26672	114	0.02	16	< 10	< 1	< 1	0.151
26673	107	0.02	16	< 10	< 1	< 1	0.061
26674	78	0.03	20	< 10	< 1	< 1	0.026
26675	103	0.02	15	< 10	< 1	< 1	0.052
26736	123	0.03	23	< 10	< 1	< 1	0.281
26737	125	0.02	28	< 10	< 1	< 1	0.121
26738	49	0.05	76	< 10	< 1	5	5.893
26739	89	0.04	88	< 10	< 1	2	2.814
26740	58	0.02	36	< 10	< 1	1	0.492
26741	84	0.03	41	< 10	< 1	2	2.373
26742	77	0.03	44	< 10	< 1	2	3.223
26743	66	0.03	51	< 10	< 1	2	3.290
26744	80	0.03	42	< 10	< 1	2	2.823
26745	97	0.03	31	< 10	1	< 1	0.667
26856	53	0.02	27	< 10	< 1	2	2.421
26857	54	0.03	31	< 10	1	2	1.863
26858	59	0.05	87	< 10	3	1	0.182
26859	40	0.06	165	< 10	1	1	0.287
26860	119	< 0.01	6	< 10	< 1	< 1	0.087
26651	31	0.06	136	< 10	1	2	0.692
26862	27	0.10	167	< 10	2	1	0.381
26663	26	0.07	134	< 10	2	2	1.419
26664	14	0.09	167	< 10	2	2	1.173
26665	9	0.08	54	< 10	5	2	0.223

Activation Laboratories Ltd. Report: A08-4053

Quality Control																								
Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	27.8	3.3	1030	808	13	22	571	585	0.32	336	218	<1	1310	0.77	9	8	22.5	0.02	0.13	0.03	0.038	71	1	24
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.7	0.6	6500	135	335	37	43	53	2.85	100	37	1	21	0.92	15	53	3.41	1.39	1.68	0.11	0.127	<10	6	<10
GXR-4 Cert	4.00	0.660	6500	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.3	4.0	70	928	<2	14	864	496	2.97	12	923	<1	<10	0.66	9	22	1.86	0.45	0.45	0.11	0.053	25	4	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	<0.5	60	933	<2	17	87	106	6.70	201	839	<1	<10	0.14	14	73	5.61	0.80	0.35	0.05	0.030	<10	21	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
28658 Orig	<0.2	<0.5	60	89	<2	32	<2	6	6.48	<10	15	<1	<10	4.57	6	111	0.78	0.01	0.68	0.68	0.004	<10	2	<10
28658 Dup	<0.2	<0.5	64	87	<2	32	<2	6	5.97	<10	13	<1	<10	4.23	6	106	0.75	0.01	0.65	0.61	0.004	<10	1	<10
28742 Orig	8.6	3.8	5070	146	<2	1690	68	133	4.54	<10	16	<1	<10	3.05	106	221	7.61	0.05	0.91	0.44	0.006	<10	4	<10
28742 Dup	8.9	3.5	5560	149	<2	1780	73	144	4.88	<10	17	<1	<10	3.18	111	230	7.96	0.06	0.85	0.47	0.006	<10	4	<10
28655 Orig	0.8	1.2	369	378	<2	125	44	102	2.75	<10	271	<1	<10	0.28	20	86	4.40	0.45	2.12	0.06	0.030	<10	8	<10
28655 Dup	0.7	1.2	372	389	<2	124	43	133	2.78	<10	272	<1	<10	0.28	21	93	4.43	0.45	2.13	0.06	0.030	<10	8	<10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	158		73	167	21	13	0.198
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	74		86	14	12	10	1.879
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	73		44	< 10	9	9	0.032
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	28		160	< 10	6	9	0.014
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
28688 Orig	88	0.01	14	< 10	< 1	< 1	0.040
28688 Dup	90	0.01	13	< 10	< 1	< 1	0.038
28742 Orig	75	0.03	42	< 10	< 1	2	3.135
28742 Dup	80	0.03	45	< 10	< 1	2	3.311
28665 Orig	9	0.08	64	< 10	4	2	0.229
28665 Dup	9	0.08	66	< 10	5	2	0.217



Date Submitted: 14-Jul-08
Invoice No.: A08-4054
Invoice Date: 04-Aug-08
Your Reference: DOSSIER #22798

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

58 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4054**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4054

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	10	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
28705	0.2	< 0.5	134	93	< 2	106	10	17	6.60	< 10	62	< 1	< 10	4.52	13	203	1.46	0.33	1.26	0.47	0.012	< 10	2	< 10	
28707	< 0.2	< 0.5	197	199	< 2	164	4	29	6.97	< 10	144	< 1	< 10	3.85	21	486	3.31	0.53	2.83	0.38	0.005	< 10	6	< 10	
28708	0.5	< 0.5	134	175	< 2	128	< 2	48	5.81	< 10	217	< 1	< 10	2.93	25	421	3.66	1.01	3.18	0.14	0.004	< 10	7	< 10	
28709	1.1	0.8	869	369	< 2	80	4	57	3.85	< 10	164	< 1	< 10	1.61	22	224	4.23	0.82	2.85	0.11	0.015	< 10	9	< 10	
28710	< 0.2	< 0.5	3	270	< 2	2	4	46	0.05	< 10	152	< 1	< 10	11.2	< 1	29	0.10	0.01	8.60	< 0.01	0.003	< 10	< 1	< 10	
28711	1.2	3.3	589	356	3	58	94	114	3.74	< 10	215	< 1	< 10	1.48	24	59	3.85	0.85	2.74	0.16	0.020	< 10	8	< 10	
28712	< 0.2	< 0.5	123	265	< 2	124	5	40	5.25	< 10	146	< 1	< 10	3.37	23	340	3.15	0.69	2.64	0.11	0.009	< 10	5	< 10	
28713	< 0.2	< 0.5	104	321	< 2	124	< 2	35	4.07	< 10	98	< 1	< 10	2.67	24	286	3.18	0.34	2.68	0.09	0.013	< 10	4	< 10	
28714	< 0.2	< 0.5	233	217	< 2	104	3	32	5.50	< 10	116	< 1	< 10	3.55	19	282	2.61	0.52	2.12	0.19	0.009	< 10	2	< 10	
28715	1.4	< 0.5	743	276	< 2	176	6	30	5.71	< 10	135	< 1	< 10	3.94	33	226	2.74	0.44	1.86	0.21	0.010	< 10	3	< 10	
28755	5.3	2.5	2290	271	< 2	838	90	97	4.98	< 10	20	< 1	< 10	3.18	47	208	3.49	0.08	1.91	0.20	0.009	< 10	4	< 10	
28757	3.9	1.5	1760	303	< 2	677	59	59	3.23	< 10	8	< 1	< 10	2.49	51	153	3.16	0.02	1.36	0.12	0.010	< 10	3	< 10	
28758	2.4	1.7	893	306	< 2	320	96	69	3.11	< 10	7	< 1	< 10	2.45	26	120	2.40	0.02	1.33	0.10	0.028	< 10	3	< 10	
28759	4.3	1.1	2370	354	< 2	1170	28	49	1.85	< 10	6	< 1	< 10	1.36	59	186	4.31	0.02	1.67	0.04	0.014	< 10	4	< 10	
28761	6.5	0.9	2830	475	< 2	908	59	52	3.99	< 10	7	< 1	< 10	2.49	85	177	4.82	0.02	2.32	0.13	0.008	< 10	3	< 10	
28762	3.2	3.0	1440	314	< 2	660	110	87	4.47	< 10	7	< 1	< 10	3.41	44	112	3.14	0.02	1.47	0.23	0.003	< 10	2	< 10	
28763	6.9	4.1	3000	256	< 2	1080	149	96	4.97	< 10	10	< 1	< 10	3.65	57	124	4.11	0.02	1.50	0.23	0.012	< 10	3	< 10	
28764	5.6	3.4	2900	117	< 2	861	156	55	6.06	< 10	8	< 1	< 10	4.59	61	116	2.77	0.01	0.77	0.37	0.011	< 10	2	< 10	
28765	4.8	3.2	2270	157	< 2	524	148	82	5.85	< 10	11	< 1	< 10	4.30	44	181	2.64	0.01	0.99	0.39	0.007	< 10	4	< 10	
28775	12.6	8.2	9200	354	< 2	546	255	675	4.67	< 10	17	< 1	< 10	2.99	173	421	9.84	0.05	1.35	0.36	0.011	< 10	3	< 10	
28777	11.2	10.5	7720	152	< 2	1120	280	670	4.22	< 10	17	< 1	< 10	2.51	71	425	7.23	0.04	0.83	0.45	0.021	< 10	2	< 10	
28778	15.9	35.5	> 10000	475	< 2	2030	198	1330	3.35	< 10	17	< 1	< 10	1.29	202	158	18	4	0.07	1.71	0.16	0.021	< 10	5	16
28779	39.6	28.3	> 10000	595	< 2	2140	244	1100	2.43	< 10	9	< 1	< 10	0.82	302	115	20.6	0.03	1.63	0.02	0.024	< 10	5	16	
28780	< 0.2	0.7	116	129	< 2	210	8	113	0.05	< 10	6	< 1	< 10	7.27	2	16	0.24	< 0.01	4.23	0.02	0.006	< 10	< 1	< 10	
28781	45.5	25.6	> 10000	626	< 2	1950	644	982	2.35	< 10	11	< 1	< 10	20	1.04	126	169	15.7	0.04	1.45	0.04	0.026	< 10	4	15
28782	36.0	28.0	> 10000	446	< 2	6760	724	1110	1.66	< 10	10	< 1	< 10	36	0.56	260	83	29.3	0.04	0.81	0.03	0.016	< 10	2	15
28783	32.2	27.5	> 10000	871	< 2	3330	458	1140	2.58	< 10	9	< 1	< 10	24	0.85	478	91	27.1	0.03	1.71	< 0.01	0.020	< 10	5	22
28784	5.9	8.8	3510	605	< 2	271	117	458	2.67	< 10	42	< 1	< 10	1.26	31	62	7.66	0.17	2.37	0.04	0.074	< 10	7	27	
28785	4.5	1.8	3770	566	< 2	230	47	119	3.20	< 10	27	< 1	< 10	0.68	32	44	6.98	0.10	3.77	0.01	0.074	< 10	11	21	
28815	2.9	1.5	1030	300	< 2	42	9	79	2.60	< 10	109	< 1	< 10	0.21	11	76	2.90	0.19	1.65	0.06	0.010	< 10	3	< 10	
28817	4.9	3.2	1860	416	< 2	111	44	181	4.68	< 10	115	< 1	< 10	1.62	20	60	5.64	0.69	2.65	0.24	0.016	< 10	6	< 10	
28818	6.7	3.8	1740	171	< 2	117	49	134	3.92	< 10	49	< 1	< 10	1.77	12	81	2.94	0.25	1.21	0.22	0.035	< 10	1	< 10	
28819	6.1	3.1	1580	167	< 2	65	54	121	4.00	< 10	62	< 1	< 10	1.56	13	63	2.97	0.41	1.45	0.21	0.020	< 10	2	< 10	
28820	0.7	< 0.5	1520	301	< 2	1540	< 2	26	5.63	< 10	19	< 1	< 10	2.80	48	136	3.29	0.03	3.13	0.31	0.003	< 10	3	< 10	
28822	17.4	7.2	4130	163	< 2	238	80	194	4.62	< 10	58	< 1	< 10	2.28	33	50	5.43	0.60	1.46	0.40	0.036	< 10	3	< 10	
28823	9.8	3.8	2830	354	2	175	32	126	3.83	< 10	67	< 1	< 10	1.63	31	64	5.91	0.30	1.94	0.21	0.040	< 10	4	< 10	
28824	1.3	0.8	491	396	< 2	60	7	45	2.19	< 10	27	< 1	< 10	1.58	23	86	4.29	0.05	1.17	0.08	0.043	< 10	6	< 10	
28825	0.6	< 0.5	237	140	< 2	48	16	28	7.42	< 10	144	< 1	< 10	5.04	12	187	2.01	0.27	1.23	0.44	0.009	< 10	5	< 10	
78636	0.8	1.9	236	138	< 2	117	46	34	4.86	< 10	14	< 1	< 10	3.64	17	164	1.66	0.04	0.88	0.44	0.016	< 10	4	< 10	
28837	1.0	< 0.5	132	69	< 2	88	37	7	1.41	< 10	11	< 1	< 10	1.01	10	91	0.87	0.02	0.54	0.21	0.058	< 10	2	< 10	
28838	0.3	< 0.5	86	90	< 2	77	10	8	3.62	< 10	12	< 1	< 10	2.74	7	45	0.81	0.01	0.62	0.47	0.037	< 10	3	< 10	
28839	0.6	< 0.5	238	72	< 2	132	10	19	4.29	< 10	81	< 1	< 10	2.69	18	77	1.85	0.36	1.51	0.38	0.036	< 10	4	< 10	
28840	0.7	< 0.5	1530	302	< 2	1570	2	25	5.81	< 10	19	< 1	< 10	2.82	47	136	3.32	0.03	3.18	0.31	0.003	< 10	3	< 10	
28841	0.6	< 0.5	237	91	< 2	134	20	10	6.06	< 10	22	< 1	< 10	4.43	15	99	1.32	0.07	0.76	0.56	0.013	< 10	3	< 10	
28842	< 0.2	< 0.5	190	167	< 2	97	15	10	6.02	< 10	14	< 1	< 10	4.51	14	80	1.38	0.02	0.85	0.64	0.020	< 10	4	< 10	
28843	0.3	< 0.5	130	115	< 2	79	12	7	5.11	< 10	13	< 1	< 10	3.33	12	84	1.10	0.01	0.74	0.55	0.013	< 10	3	< 10	
78844	0.2	< 0.5	92	92	< 2	40	14	6	5.81	< 10	12	< 1	< 10	3.96	7	86	0.82	0.01	0.68	0.68	0.008	< 10	3	< 10	
28845	0.3	< 0.5	86	131	< 2	88	15	7	8.47	< 10	15	< 1	< 10	4.54	9	76	1.06	0.02	0.79	0.73	0.016	< 10	3	< 10	
30633	0.7	< 0.5	989	222	< 2	129	3	33	6.20	< 10	12	< 1	< 10	4.05	37	50	3.06	0.02	1.42	0.40	0.033	< 10	5	< 10	
30634	< 0.2	< 0.5	44	93	< 2	74	< 2	11	6.96	< 10	13	< 1	< 10	4.83	10	94	1.11	0.01	0.95	0.33	0.004	< 10	1	< 10	
30635	< 0.2	< 0.5	97	78	< 2	275	2	8	5.94	< 10	225	< 1	< 10	4.28	27	187	1.22	0.13	0.65	0.29	0.010	< 10	2	< 10	
30636	< 0.2	< 0.5	120	79	< 2	44	3	6	6.77	< 10	20	< 1	< 10	4.78	7	6									

Activation Laboratories Ltd. Report: A08-4054

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30537	< 0.2	< 0.5	46	120	< 2	36	< 2	6	2.50	< 10	10	< 1	< 10	1.86	7	77	0.81	< 0.01	0.82	0.47	0.003	< 10	3	< 10
30638	< 0.2	< 0.5	101	133	< 2	61	< 2	8	3.40	< 10	12	< 1	< 10	2.59	15	66	1.13	< 0.01	0.67	0.46	0.014	< 10	4	< 10
30639	2.5	1.4	2860	33	< 2	93	< 2	22	0.73	< 10	20	< 1	< 10	0.41	13	75	0.92	0.05	0.33	0.11	0.014	< 10	< 1	< 10
30640	0.8	< 0.5	1590	295	< 2	1640	< 2	24	5.63	< 10	18	< 1	< 10	2.77	47	134	3.23	0.03	3.11	0.31	0.003	< 10	3	< 10
30641	< 0.2	< 0.5	211	41	< 2	17	3	13	0.86	< 10	30	< 1	< 10	0.14	10	63	1.16	0.11	0.78	0.04	0.017	< 10	2	< 10
30642	0.3	0.7	358	53	2	16	11	55	0.99	< 10	38	< 1	< 10	0.31	10	52	1.19	0.18	0.54	0.08	0.017	< 10	2	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28705	91	0.05	29	< 10	< 1	< 1	0.058
28707	77	0.09	74	< 10	2	1	0.127
28708	25	0.11	78	< 10	1	1	0.039
28709	14	0.13	53	< 10	9	2	0.236
28710	91	< 0.01	8	< 10	< 1	< 1	0.086
28711	12	0.17	40	< 10	9	3	0.279
28712	23	0.10	56	< 10	2	2	0.078
28713	18	0.14	81	< 10	1	1	0.064
28714	39	0.09	44	< 10	< 1	< 1	0.060
28715	39	0.09	40	< 10	< 1	< 1	0.330
28755	78	0.05	32	< 10	1	1	1.012
28757	46	0.04	24	< 10	1	1	1.328
28758	43	0.04	26	< 10	1	1	0.570
28759	20	0.08	32	< 10	2	2	2.098
28761	48	0.05	39	< 10	1	2	1.402
28762	73	0.03	30	< 10	< 1	1	0.896
28763	79	0.03	24	< 10	1	1	1.499
28764	108	0.01	16	< 10	< 1	< 1	1.191
28765	97	0.02	24	< 10	< 1	1	0.983
28775	32	0.02	77	< 10	2	3	4.068
28777	34	0.03	72	< 10	2	2	2.727
28778	16	0.07	73	< 10	5	5	6.932
28776	7	0.05	83	< 10	4	6	7.626
28780	83	< 0.01	1	< 10	< 1	< 1	0.196
28781	11	0.02	67	< 10	3	5	5.456
28782	8	0.02	63	10	2	6	5.246
28783	4	0.04	82	< 10	4	7	7.819
28784	8	0.12	65	< 10	11	3	1.106
28785	4	0.17	100	< 10	18	3	1.014
28815	9	0.05	21	< 10	4	2	0.260
28817	27	0.15	66	< 10	6	3	0.886
28818	35	0.04	21	< 10	4	2	0.853
28819	33	0.05	27	< 10	3	2	0.584
28820	67	0.02	34	< 10	< 1	1	0.476
28822	49	0.10	68	< 10	5	3	1.553
28823	29	0.10	60	< 10	10	3	1.296
28824	19	0.14	121	< 10	6	2	0.431
28825	81	0.05	49	< 10	2	< 1	0.147
28836	72	0.04	32	< 10	2	1	0.333
28837	25	0.08	20	< 10	4	5	0.125
28838	45	0.03	21	< 10	3	1	0.093
28839	52	0.07	49	< 10	3	< 1	0.232
28840	68	0.01	34	< 10	< 1	1	0.483
28841	93	0.03	26	< 10	1	< 1	0.289
28842	118	0.05	34	< 10	2	< 1	0.162
28843	97	0.03	23	< 10	< 1	< 1	0.133
28844	101	0.02	16	< 10	< 1	< 1	0.063
28845	118	0.04	25	< 10	2	< 1	0.088
30533	126	0.22	90	< 10	5	1	0.191
30534	157	0.03	25	< 10	< 1	< 1	0.044
30535	58	0.08	30	< 10	1	< 1	0.193
30536	97	0.01	12	< 10	< 1	< 1	0.072

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30537	38	0.03	20	< 10	< 1	< 1	0.050
30638	37	0.03	26	< 10	1	< 1	0.222
30630	12	0.03	10	< 10	4	6	0.423
30640	63	0.01	33	< 10	< 1	1	0.480
30641	4	0.05	12	< 10	4	4	0.208
30642	9	0.06	17	< 10	5	6	0.150

Activation Laboratories Ltd. Report: A08-4054

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	28.5	3.4	1040	841	14	17	881	581	0.32	347	218	<1	1340	0.80	9	5	23.1	0.02	0.13	0.03	0.034	72	1	24
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.7	0.6	6310	135	331	35	41	58	2.75	98	32	1	24	0.90	15	53	3.36	1.36	1.63	0.10	0.116	<10	6	<10
GXR-4 Cert	4.00	0.660	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	21.4	4.7	85	1090	<2	16	778	568	3.45	15	1050	1	<10	0.75	10	25	2.15	0.53	0.52	0.13	0.058	30	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.7	66	1010	<2	18	94	115	7.14	236	906	<1	<10	0.16	15	79	6.04	0.85	0.39	0.06	0.031	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2500				2070										5.80							
OREAS 13P Cert			2500				2280										7.58							
28757 Ong	3.8	1.4	1780	303	<2	671	60	58	3.15	<10	9	<1	<10	2.48	50	152	3.11	0.02	1.38	0.12	0.010	<10	3	<10
28757 Dup	3.9	1.5	1740	303	<2	684	59	50	3.27	<10	8	<1	<10	2.50	52	154	3.20	0.02	1.37	0.12	0.010	<10	3	<10
28767 Ong	34.8	28.2	>10000	440	<2	6800	720	1110	1.64	<10	10	<1	31	0.55	251	83	25.3	0.04	0.60	0.03	0.016	12	2	15
28767 Dup	35.3	27.9	>10000	449	<2	6710	728	1120	1.68	<10	10	<1	39	0.55	248	83	25.3	0.04	0.61	0.03	0.016	<10	2	14
28835 Ong	0.8	1.5	233	136	<2	117	47	34	4.85	<10	15	<1	<10	3.61	17	152	1.64	0.04	0.57	0.44	0.015	<10	4	<10
28835 Dup	0.7	1.8	236	140	<2	117	46	33	4.88	<10	14	<1	<10	3.66	17	156	1.68	0.04	0.65	0.44	0.016	<10	4	<10
30537 Ong	<0.2	<0.5	45	117	<2	35	<2	6	2.47	<10	10	<1	<10	1.85	7	77	0.80	<0.01	0.61	0.47	0.003	<10	3	<10
30537 Dup	<0.2	<0.5	47	123	<2	36	<2	6	2.53	<10	10	<1	<10	1.88	8	77	0.83	<0.01	0.63	0.47	0.003	<10	3	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	8	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	8	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	157		76	177	21	13	0.198
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	71		83	15	11	9	1.807
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	86		52	< 10	11	11	0.037
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	31		176	< 10	7	14	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
28757 Orig	46	0.04	24	< 10	1	1	1.305
28757 Dup	47	0.04	24	< 10	1	1	1.351
28782 Orig	8	0.02	63	11	2	8	5.677
28782 Dup	8	0.02	64	10	2	8	4.816
28835 Orig	72	0.04	32	< 10	2	1	0.332
28835 Dup	73	0.04	33	< 10	2	1	0.334
30537 Orig	35	0.03	19	< 10	< 1	< 1	0.047
30537 Dup	36	0.03	20	< 10	< 1	< 1	0.052
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 14-Jul-08

Invoice No.: A08-4056

Invoice Date: 04-Aug-08

Your Reference: DOSSIER #22799

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

68 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4056**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4056

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
29308	< 0.2	< 0.5	20	899	< 2	5	42	81	3.95	< 10	250	< 1	< 10	0.81	14	57	5.00	0.71	2.98	0.09	0.089	< 10	11	< 10
29309	< 0.2	< 0.5	33	718	< 2	4	60	85	3.66	< 10	260	< 1	< 10	0.93	15	46	4.69	0.81	2.76	0.09	0.079	< 10	11	< 10
29310	< 0.2	< 0.5	4	9	< 2	< 1	< 2	1	0.03	< 10	8	< 1	< 10	0.03	< 1	2	0.05	0.01	0.02	< 0.01	0.004	< 10	< 1	< 10
29311	< 0.2	0.6	43	796	< 2	5	90	111	4.23	< 10	253	< 1	< 10	0.74	15	44	5.34	0.93	2.82	0.09	0.078	< 10	11	< 10
29312	< 0.2	0.6	78	915	2	7	14	109	4.32	< 10	184	< 1	< 10	0.70	17	49	5.72	0.72	3.66	0.07	0.096	< 10	11	< 10
29313	< 0.2	< 0.5	31	754	< 2	4	5	102	4.24	< 10	167	< 1	< 10	0.47	16	53	5.78	0.84	3.02	0.04	0.093	< 10	10	< 10
29314	< 0.2	< 0.5	23	673	< 2	5	< 2	81	4.02	< 10	56	< 1	< 10	0.42	16	56	5.41	0.27	4.14	0.02	0.085	< 10	7	< 10
29315	< 0.2	< 0.5	86	850	4	6	3	69	3.05	< 10	33	< 1	< 10	0.15	48	61	5.18	1.00	3.66	< 0.01	0.017	< 10	4	< 10
29316	0.8	1.7	279	893	< 2	57	36	223	2.84	< 10	26	< 1	< 10	0.56	28	126	5.44	0.15	3.09	0.01	0.029	< 10	10	< 10
29317	0.4	1.3	130	1020	< 2	76	24	234	3.04	< 10	20	< 1	< 10	1.03	28	174	6.37	0.06	3.84	0.02	0.031	< 10	10	< 10
29318	< 0.2	0.7	70	582	< 2	44	18	150	2.81	< 10	40	< 1	< 10	1.58	18	138	3.66	0.14	2.11	0.03	0.032	< 10	8	< 10
29319	< 0.2	< 0.5	28	103	< 2	71	8	23	7.60	< 10	118	< 1	< 10	4.96	13	275	1.58	0.41	1.40	0.50	0.016	< 10	2	< 10
29320	< 0.2	< 0.5	36	171	< 2	74	5	22	6.38	< 10	54	< 1	< 10	4.14	14	268	1.91	0.22	1.59	0.66	0.014	< 10	3	< 10
29321	< 0.2	< 0.5	19	109	< 2	72	4	21	6.66	< 10	114	< 1	< 10	4.24	14	244	1.62	0.41	1.40	0.59	0.012	< 10	3	< 10
29322	< 0.2	< 0.5	10	95	< 2	69	6	21	7.22	< 10	154	< 1	< 10	4.79	13	255	1.53	0.40	1.37	0.51	0.009	< 10	3	< 10
29323	1.1	1.7	8230	284	< 2	> 10000	3	42	0.61	< 10	7	< 1	< 10	0.39	628	32	31.7	0.11	0.16	0.07	0.046	11	3	< 10
29324	0.5	0.9	409	147	< 2	88	3	49	3.85	< 10	124	< 1	< 10	2.44	16	265	2.61	0.43	2.09	0.22	0.018	< 10	6	< 10
29325	2.2	0.9	1190	107	< 2	78	3	42	4.38	< 10	93	< 1	< 10	2.09	27	106	3.66	0.74	1.89	0.26	0.016	< 10	5	< 10
29326	0.5	< 0.5	386	104	< 2	55	4	27	5.72	< 10	107	< 1	< 10	3.81	13	158	2.13	0.48	1.55	0.37	0.015	< 10	5	< 10
29327	< 0.2	< 0.5	18	131	< 2	68	4	16	5.84	< 10	44	< 1	< 10	4.22	11	362	1.41	0.16	1.18	0.42	0.010	< 10	3	< 10
29328	24.8	8.2	> 10000	215	< 2	1360	150	288	3.98	< 10	12	< 1	< 10	2.43	145	163	7.53	0.03	1.23	0.32	0.014	< 10	4	< 10
29329	16.0	8.0	8690	161	< 2	1880	184	252	4.63	< 10	13	< 1	< 10	3.03	113	189	8.51	0.03	0.93	0.30	0.008	< 10	4	< 10
29330	0.6	< 0.5	1600	312	< 2	1600	< 2	25	5.97	< 10	20	< 1	< 10	2.92	49	142	3.42	0.03	3.27	0.33	0.003	< 10	3	< 10
29331	9.4	4.8	4600	116	< 2	1240	187	165	5.84	< 10	11	< 1	< 10	4.07	78	164	6.69	0.02	0.75	0.37	0.007	< 10	3	< 10
29332	27.0	14.4	> 10000	133	< 2	2490	168	383	4.16	< 10	9	< 1	< 10	2.71	199	261	12.1	0.03	0.83	0.23	0.011	< 10	3	< 10
29333	16.0	8.7	7730	174	< 2	2390	173	262	4.20	< 10	12	< 1	< 10	2.41	135	296	11.3	0.04	1.12	0.27	0.010	< 10	3	< 10
29334	11.5	12.4	8220	217	< 2	1850	153	379	4.59	< 10	10	< 1	< 10	2.72	159	229	9.98	0.03	1.18	0.30	0.011	< 10	4	< 10
29335	21.7	14.9	> 10000	270	< 2	1640	61	346	2.62	< 10	8	< 1	< 10	1.69	79	181	7.87	0.01	1.42	0.06	0.015	< 10	4	< 10
29336	6.4	3.5	2800	360	< 2	1050	67	91	3.29	< 10	9	< 1	< 10	2.01	73	245	5.23	0.02	1.92	1.00	0.010	< 10	4	< 10
29337	3.7	2.4	1600	263	< 2	295	96	69	4.46	< 10	9	< 1	< 10	3.32	24	128	2.16	0.02	1.34	0.17	0.015	< 10	2	< 10
29196	17.7	12.7	8620	186	< 2	1690	251	615	4.26	< 10	12	< 1	< 10	3.01	115	117	7.89	0.02	0.81	0.47	0.012	< 10	4	< 10
29197	11.3	7.9	5370	184	< 2	1800	249	351	3.91	< 10	19	< 1	< 10	2.74	105	130	8.13	0.05	0.80	0.53	0.012	< 10	4	< 10
29198	12.0	8.0	5960	169	< 2	2340	244	335	4.07	< 10	15	< 1	< 10	2.76	120	144	10.1	0.03	0.71	0.49	0.013	< 10	4	< 10
29199	16.1	10.5	7830	204	< 2	1770	334	451	3.63	< 10	18	< 1	< 10	23.54	140	136	8.39	0.03	0.83	0.48	0.011	< 10	4	< 10
29200	1.1	1.9	8590	289	< 2	> 10000	3	44	0.52	< 10	7	< 1	< 10	0.39	534	32	32.4	0.11	0.17	0.07	0.048	< 10	4	< 10
29201	9.1	6.4	4800	196	< 2	1630	190	321	3.79	< 10	23	< 1	< 10	2.69	120	130	8.43	0.05	0.83	0.45	0.014	< 10	4	< 10
29202	3.1	2.5	1560	251	< 2	1240	143	152	3.69	< 10	29	< 1	< 10	2.80	76	167	6.16	0.08	1.05	0.50	0.013	< 10	5	< 10
29203	3.9	2.9	2580	206	< 2	1360	123	114	3.67	< 10	20	< 1	< 10	2.89	92	118	5.26	0.04	0.84	0.42	0.017	< 10	4	< 10
29204	5.1	4.0	2880	254	< 2	1270	131	147	3.47	< 10	30	< 1	< 10	2.71	83	136	6.38	0.06	1.05	0.43	0.013	< 10	5	< 10
29205	6.8	6.9	3830	243	< 2	1230	180	238	3.57	< 10	33	< 1	< 10	2.48	85	134	6.75	0.20	1.17	0.43	0.014	< 10	5	< 10
27461	< 0.2	< 0.5	6.6	247	< 2	36	< 2	33	2.73	< 10	56	< 1	< 10	2.05	17	78	3.12	0.34	1.68	0.12	0.045	< 10	5	< 10
27613	0.3	< 0.5	377	379	< 2	49	< 2	31	3.07	< 10	23	< 1	< 10	2.46	16	77	2.52	0.01	1.34	0.26	0.031	< 10	5	< 10
27618	1.1	1.0	526	242	< 2	127	15	51	6.40	< 10	56	1	< 10	4.32	21	161	2.08	0.50	1.61	0.36	0.009	< 10	3	11
27619	0.2	< 0.5	49	398	< 2	83	5	57	5.65	< 10	30	1	< 10	3.95	14	126	2.34	0.64	1.99	0.25	0.014	< 10	5	24
28021	< 0.2	< 0.5	8	86	< 2	22	2	5	5.09	< 10	18	< 1	< 10	3.79	5	100	0.68	0.08	0.52	0.53	0.023	< 10	2	< 10
28025	0.2	0.5	136	208	< 2	532	< 2	31	3.09	< 10	6	< 1	< 10	0.22	50	223	4.41	< 0.01	4.30	< 0.01	0.015	< 10	2	< 10
28027	< 0.2	< 0.5	199	121	< 2	691	< 2	22	2.62	< 10	7	< 1	< 10	0.14	64	191	3.82	< 0.01	4.01	< 0.01	0.016	< 10	< 1	< 10
28028	6.2	3.0	5870	310	< 2	583	6	231	2.83	< 10	10	< 1	< 10	1.17	83	82	4.39	0.01	2.84	0.11	0.014	< 10	3	< 10
28029	0.3	< 0.5	400	226	< 2	56	< 2	16	1.64	< 10	31	< 1	< 10	1.36	18	67	2.19	0.03	1.80	0.19	0.030	< 10	6	< 10
28030	< 0.2	< 0.5	4	10	< 2	< 1	< 2	2	0.03	< 10	8	< 1	< 10	0.03	< 1	< 2	0.05	< 0.01	0.01	< 0.01	0.004	< 10	< 1	< 10
30175	< 0.2	< 0.5	117	459	< 2	56	8	79	2.99	< 10	22	< 1	< 10	2.05	21	99	3.18	1.41	1.47	0.15	0.032	< 10	7	< 10
30180	< 0.2	< 0.5	46	166	< 2	6	4	12	0.04	< 10	102	< 1	< 10	8.36	< 1	9	0.07	< 0.01	4.43	< 0.01	0.004	< 10	< 1	< 10

Activation Laboratories Ltd. Report: A08-4056

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30161	0.3	< 0.5	156	540	< 2	56	13	87	2.37	< 10	16	< 1	< 10	1.63	25	115	4.10	0.10	1.81	0.07	0.030	< 10	8	< 10
30162	0.2	< 0.5	106	476	< 2	69	8	81	2.15	< 10	18	< 1	< 10	1.66	24	121	3.83	0.09	1.70	0.06	0.037	< 10	7	< 10
30163	< 0.2	< 0.5	93	471	< 2	54	4	55	1.87	< 10	17	< 1	< 10	1.52	22	114	3.30	0.09	1.38	0.06	0.034	< 10	7	< 10
30164	0.5	< 0.5	210	479	< 2	68	5	80	1.85	< 10	17	< 1	< 10	1.54	28	114	3.63	0.09	1.48	0.07	0.045	< 10	7	< 10
30165	< 0.2	< 0.5	83	147	< 2	10	7	22	0.68	< 10	10	1	< 10	0.25	4	88	0.84	0.11	0.25	0.03	0.019	< 10	< 1	15
30166	< 0.2	< 0.5	6	117	< 2	5	2	6	0.42	< 10	7	< 1	< 10	0.14	< 1	96	0.46	0.11	0.05	0.04	0.008	< 10	< 1	24
30167	0.2	0.6	104	766	< 2	66	3	112	2.66	< 10	27	3	< 10	2.06	29	159	4.96	0.34	2.23	0.09	0.042	< 10	10	< 10
30168	< 0.2	< 0.5	60	542	< 2	21	9	105	2.69	< 10	188	3	< 10	0.50	15	90	4.00	0.76	1.75	0.06	0.027	< 10	7	< 10
26683	12.2	6.1	5670	181	< 2	2270	103	167	5.25	< 10	13	< 1	< 10	2.99	133	195	7.67	0.05	1.54	0.32	0.008	< 10	2	< 10
26684	7.5	4.0	3360	189	< 2	1010	138	118	6.38	< 10	9	< 1	< 10	3.96	60	122	4.39	0.02	1.20	0.49	0.009	< 10	3	< 10
26685	14.1	9.3	5220	329	< 2	1580	99	242	3.87	< 10	8	< 1	< 10	1.78	118	124	7.23	0.02	2.10	0.21	0.006	< 10	3	< 10
26686	9.7	10.0	3190	460	< 2	249	108	278	3.38	< 10	6	< 1	< 10	3.00	33	152	4.81	0.01	2.45	0.14	0.015	< 10	9	< 10
26687	0.3	1.4	106	442	< 2	69	48	65	3.73	< 10	7	< 1	< 10	2.65	17	136	3.01	0.01	1.91	0.23	0.014	< 10	8	< 10
26688	1.3	< 0.5	88	298	< 2	45	26	27	3.20	< 10	7	< 1	< 10	2.49	18	148	2.03	0.02	1.32	0.25	0.035	< 10	7	< 10
26689	0.2	< 0.5	45	382	< 2	53	18	29	4.28	< 10	8	< 1	< 10	3.56	17	168	2.76	0.02	1.86	0.29	0.012	< 10	10	< 10
26690	0.8	< 0.5	1600	310	< 2	1670	< 2	25	5.95	< 10	20	< 1	< 10	2.89	49	141	3.38	0.03	3.27	0.33	0.003	< 10	3	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
29308	22	0.19	80	< 10	10	6	0.068
29309	23	0.17	77	< 10	9	6	0.186
29310	1	< 0.01	< 1	< 10	< 1	3	0.015
29311	20	0.18	81	< 10	9	6	0.282
29312	24	0.18	84	< 10	11	5	0.244
29313	15	0.14	84	< 10	13	4	0.077
29314	10	0.10	62	< 10	16	5	0.167
29315	3	0.07	19	< 10	15	12	1.097
29316	11	0.13	89	< 10	16	6	0.464
29317	9	0.08	126	< 10	7	2	0.204
29318	9	0.10	88	< 10	12	3	0.059
29585	77	0.07	37	< 10	1	< 1	0.036
28687	87	0.07	36	< 10	1	< 1	0.033
28688	87	0.07	36	< 10	< 1	< 1	0.029
28689	60	0.07	43	< 10	1	< 1	0.033
28700	15	0.09	82	< 10	18	18	7.794
28701	28	0.13	52	< 10	6	2	0.107
28702	25	0.11	39	< 10	2	2	0.734
28703	72	0.08	35	< 10	2	1	0.247
28704	83	0.06	33	< 10	1	< 1	0.031
29268	59	0.02	30	< 10	< 1	2	3.780
29269	82	0.02	38	< 10	< 1	3	3.838
29270	67	0.02	35	< 10	< 1	1	0.496
29271	96	0.02	33	< 10	< 1	2	2.318
29272	62	0.02	51	< 10	< 1	4	5.639
29273	59	0.02	64	< 10	< 1	3	4.486
29274	82	0.02	81	< 10	< 1	3	4.820
29275	31	0.04	33	< 10	1	3	3.948
29276	37	0.04	36	< 10	1	2	2.116
29277	81	0.03	23	< 10	< 1	< 1	0.512
29186	70	0.03	36	< 10	1	2	3.803
29187	63	0.03	36	< 10	1	3	3.908
29188	85	0.02	35	< 10	< 1	3	4.592
29189	59	0.03	35	< 10	1	3	3.968
29200	18	0.09	64	< 10	18	18	8.089
29201	66	0.04	45	< 10	1	3	3.823
29202	80	0.04	44	< 10	2	2	2.228
29203	68	0.04	46	< 10	1	2	2.675
29204	84	0.04	61	< 10	1	2	2.476
29205	59	0.08	80	< 10	1	2	2.599
27461	31	0.16	63	< 10	8	2	0.165
27613	55	0.09	64	< 10	4	1	0.102
27616	67	0.06	36	< 10	< 1	< 1	0.137
27618	55	0.06	42	< 10	2	1	0.040
28621	77	0.03	17	< 10	1	< 1	0.028
26625	2	0.02	60	< 10	< 1	1	0.284
26627	< 1	0.02	39	< 10	< 1	1	0.422
26628	19	0.04	41	< 10	2	2	1.043
26629	20	0.10	59	< 10	4	1	0.212
26630	1	< 0.01	< 1	< 10	< 1	3	0.015
30178	41	0.12	78	< 10	4	2	0.178
30180	78	< 0.01	6	< 10	< 1	< 1	0.068

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30161	16	0.14	80	< 10	7	3	0.313
30162	12	0.13	84	< 10	5	2	0.188
30163	12	0.10	88	< 10	5	2	0.167
30164	12	0.12	81	< 10	6	3	0.363
30165	6	0.02	12	< 10	6	5	0.038
30166	11	< 0.01	2	< 10	6	2	0.006
30167	19	0.17	124	< 10	6	3	0.183
30168	8	0.17	41	< 10	10	11	0.099
26663	56	0.02	25	< 10	< 1	3	3.443
26664	71	0.02	21	< 10	< 1	2	1.831
26665	34	0.02	24	< 10	< 1	2	2.925
26666	18	0.05	74	< 10	2	2	0.937
26667	40	0.05	70	< 10	2	1	0.064
26668	40	0.06	51	< 10	2	1	0.103
26669	54	0.06	73	< 10	3	1	0.046
28690	68	0.02	36	< 10	< 1	1	0.490

Activation Laboratories Ltd. Report: A08-4056

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	27.8	3.3	1030	808	13	22	571	585	0.32	336	216	<1	1310	0.77	9	8	22.5	0.02	0.13	0.03	0.036	71	1	24
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.7	0.6	6500	135	335	37	43	53	2.85	100	37	1	21	0.92	15	53	3.41	1.39	1.68	0.11	0.127	<10	6	<10
GXR-4 Cert	4.00	0.660	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.0	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.3	4.0	70	928	<2	14	864	496	2.97	12	923	<1	<10	0.66	9	22	1.86	0.45	0.45	0.11	0.053	25	4	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	< 0.5	60	933	< 2	17	87	106	6.70	201	839	< 1	< 10	0.14	14	73	5.61	0.80	0.35	0.05	0.030	< 10	21	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
28598 Orig	< 0.2	< 0.5	19	108	< 2	72	4	22	6.51	< 10	113	< 1	< 10	4.18	14	241	1.59	0.41	1.38	0.58	0.013	< 10	3	< 10
28598 Dup	< 0.2	< 0.5	19	110	< 2	72	3	21	6.61	< 10	115	< 1	< 10	4.29	14	246	1.65	0.42	1.42	0.59	0.012	< 10	3	< 10
29202 Orig	3.1	2.6	1550	251	< 2	1250	148	153	3.63	< 10	29	< 1	< 10	2.81	77	158	6.23	0.06	1.05	0.50	0.013	< 10	5	< 10
29202 Dup	3.1	2.3	1560	251	< 2	1240	137	152	3.55	< 10	29	< 1	< 10	2.79	75	155	6.09	0.06	1.05	0.50	0.013	< 10	5	< 10
30175 Orig	< 0.2	< 0.5	116	457	< 2	66	8	79	2.66	< 10	23	< 1	< 10	2.35	21	99	3.17	0.14	1.47	0.16	0.032	< 10	7	< 10
30175 Dup	< 0.2	< 0.5	118	461	< 2	66	9	79	2.69	< 10	22	< 1	< 10	2.35	22	100	3.19	0.14	1.47	0.16	0.032	< 10	7	< 10
28655 Orig	9.8	10.2	3250	467	< 2	253	106	294	3.44	< 10	6	< 1	< 10	3.05	33	154	4.90	0.01	2.50	0.14	0.015	< 10	9	< 10
28655 Dup	9.7	9.7	3130	454	< 2	244	110	273	3.21	< 10	6	< 1	< 10	2.96	32	150	4.73	0.01	2.40	0.13	0.016	< 10	9	< 10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	158		73	167	21	13	0.198
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	74		86	14	12	10	1.879
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	73		44	< 10	9	9	0.032
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	28		160	< 10	6	9	0.014
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
28698 Orig	87	0.07	36	< 10	< 1	< 1	0.029
28698 Dup	87	0.07	37	< 10	< 1	< 1	0.029
29202 Orig	51	0.04	44	< 10	2	2	2.266
29202 Dup	50	0.04	44	< 10	2	2	2.190
30179 Orig	41	0.11	78	< 10	4	2	0.180
30179 Dup	40	0.12	78	< 10	4	1	0.177
28885 Orig	18	0.05	75	< 10	2	2	0.948
28885 Dup	18	0.05	73	< 10	2	2	0.926



Date Submitted: 14-Jul-08
Invoice No.: A08-4041
Invoice Date: 06-Aug-08
Your Reference: DOSSIER 22800

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

60 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4041**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4041

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
29255	< 0.2	0.7	72	595	< 2	32	6	172	3.30	< 10	139	< 1	< 10	0.47	16	77	5.80	0.84	2.70	0.07	0.044	< 10	9	< 10
29257	< 0.2	0.5	176	378	4	29	3	80	1.75	< 10	54	< 1	< 10	0.23	8	112	3.16	0.31	1.23	0.03	0.009	< 10	3	< 10
29258	< 0.2	< 0.5	28	357	< 2	9	2	88	2.45	< 10	110	< 1	< 10	0.12	6	108	3.47	0.89	1.88	0.04	0.029	< 10	3	< 10
29259	< 0.2	< 0.5	270	401	3	10	3	52	2.05	< 10	61	< 1	< 10	0.19	7	93	2.87	0.40	1.33	0.03	0.027	< 10	2	< 10
29260	< 0.2	< 0.5	4	10	< 2	1	< 2	1	0.04	< 10	9	< 1	< 10	0.04	< 1	2	0.06	0.01	0.02	0.01	0.004	< 10	< 1	< 10
29261	< 0.2	< 0.5	12	790	< 2	43	3	156	3.25	< 10	235	< 1	< 10	1.03	18	98	4.38	0.84	2.45	0.12	0.046	< 10	10	< 10
29262	< 0.2	< 0.5	33	809	< 2	46	5	173	3.45	< 10	210	< 1	< 10	1.74	23	66	5.20	0.62	2.42	0.13	0.064	< 10	12	< 10
29263	< 0.2	< 0.5	8	848	< 2	51	6	160	3.75	< 10	171	< 1	< 10	1.88	20	78	4.99	0.81	2.42	0.25	0.063	< 10	13	< 10
29264	< 0.2	< 0.5	25	811	< 2	36	7	131	2.75	< 10	91	< 1	< 10	1.42	18	85	4.21	0.36	1.97	0.10	0.053	< 10	9	< 10
29265	< 0.2	0.6	96	1020	< 2	49	< 2	228	3.71	< 10	338	< 1	< 10	0.66	23	77	7.23	1.09	2.81	0.12	0.063	< 10	12	< 10
29268	3.1	6.1	2950	198	< 2	1730	37	228	3.09	< 10	20	< 1	< 10	0.98	99	453	8.48	0.09	3.93	0.08	0.014	< 10	2	< 10
29269	4.3	6.2	3260	210	< 2	1870	115	177	3.13	< 10	14	< 1	< 10	1.56	118	363	5.74	0.05	2.82	0.11	0.008	< 10	3	< 10
29290	0.5	< 0.5	1660	317	< 2	1740	4	28	5.60	< 10	23	< 1	< 10	3.16	52	161	3.78	0.04	6.30	0.35	0.003	< 10	3	< 10
29291	3.5	5.7	2590	203	< 2	1340	90	198	3.59	< 10	11	< 1	< 10	1.99	75	447	4.61	0.03	3.02	0.13	0.007	< 10	3	< 10
29292	2.7	4.3	2260	201	< 2	1430	43	277	3.41	< 10	10	< 1	< 10	0.98	89	523	5.63	0.03	4.04	0.07	0.007	< 10	2	< 10
29293	1.6	2.2	2290	158	< 2	2690	16	295	2.48	< 10	6	< 1	< 10	0.54	347	478	13.0	< 0.01	3.32	0.06	0.007	< 10	2	< 10
29294	6.1	6.8	6710	418	< 2	2230	75	585	2.81	< 10	8	< 1	< 10	0.34	50	469	13.0	0.02	2.84	0.05	0.010	< 10	3	< 10
29295	16.7	18.6	> 10000	916	< 2	866	456	1050	3.60	< 10	11	< 1	< 10	1.82	80	400	10.9	0.04	2.35	0.19	0.011	< 10	3	< 10
29298	18.4	39.8	> 10000	952	< 2	2180	192	1580	3.04	< 10	7	< 1	< 10	1.12	309	248	22.8	0.02	2.59	0.02	0.014	< 10	4	23
29297	16.1	55.0	> 10000	340	< 2	5790	146	1670	1.65	< 10	10	< 1	< 10	0.69	221	40	31.0	0.17	1.35	0.07	0.021	< 10	4	27
30069	0.7	1.3	719	171	< 2	448	5	81	2.72	< 10	86	< 1	< 10	1.23	44	204	3.53	0.39	3.50	0.13	0.012	< 10	3	< 10
30100	< 0.2	< 0.5	72	141	< 2	33	7	20	0.04	< 10	113	< 1	< 10	7.43	1	15	0.20	0.01	3.61	0.03	0.005	< 10	< 1	< 10
30101	0.3	< 0.5	631	194	< 2	472	< 2	40	3.21	< 10	18	< 1	< 10	0.80	49	44	3.86	0.05	4.46	0.06	0.008	< 10	2	< 10
30102	0.3	< 0.5	129	239	< 2	396	< 2	42	2.85	< 10	7	< 1	< 10	0.50	51	218	4.51	< 0.01	4.35	0.04	0.003	< 10	1	< 10
30103	< 0.2	0.5	106	283	< 2	416	< 2	45	3.08	< 10	6	< 1	< 10	0.63	53	141	4.76	< 0.01	4.77	0.06	0.004	< 10	2	< 10
30104	< 0.2	0.6	94	247	< 2	366	< 2	43	2.74	< 10	6	< 1	< 10	0.55	50	381	4.74	< 0.01	4.28	0.05	0.006	< 10	2	< 10
30105	< 0.2	< 0.5	121	84	< 2	85	3	13	6.91	< 10	15	< 1	< 10	5.18	11	157	1.10	0.02	1.12	0.65	0.006	< 10	2	< 10
30106	0.3	< 0.5	298	119	< 2	245	3	30	7.50	< 10	84	< 1	< 10	5.39	27	345	2.50	0.40	2.48	0.26	0.003	< 10	3	< 10
30107	0.3	< 0.5	171	141	< 2	395	4	28	3.07	< 10	19	< 1	< 10	1.85	34	119	2.44	0.08	2.75	0.12	0.007	< 10	3	< 10
30108	1.2	1.3	943	135	< 2	1160	5	48	4.24	< 10	50	< 1	< 10	2.45	50	343	3.75	0.34	3.16	0.13	0.007	< 10	2	< 10
30109	6.3	5.1	1960	136	< 2	437	68	123	6.08	< 10	38	< 1	< 10	3.95	34	61	6.70	0.29	1.13	0.39	0.027	< 10	3	< 10
30180	< 0.2	< 0.5	4	159	< 2	3	6	9	0.02	< 10	78	< 1	< 10	9.54	< 1	14	0.06	< 0.01	5.22	0.02	0.009	< 10	< 1	< 10
30181	3.1	2.5	915	120	< 2	224	73	82	5.64	< 10	63	< 1	< 10	3.90	21	63	4.24	0.27	0.82	0.52	0.025	< 10	3	< 10
30182	1.8	1.3	1220	116	< 2	636	52	85	4.25	< 10	37	< 1	< 10	2.05	50	138	4.52	0.35	1.74	0.44	0.015	< 10	3	< 10
30183	1.6	1.3	996	119	< 2	439	79	84	5.76	< 10	34	< 1	< 10	3.53	46	195	4.30	0.44	1.60	0.63	0.011	< 10	3	< 10
30184	4.7	1.8	3570	102	< 2	3880	15	67	2.39	< 10	12	< 1	< 10	0.58	357	100	23.6	0.28	1.45	0.11	0.011	< 10	2	< 10
30185	1.8	2.0	1050	185	< 2	467	52	89	4.74	< 10	29	< 1	< 10	3.12	46	74	5.19	0.33	1.51	0.40	0.018	< 10	3	< 10
30186	0.9	1.5	545	271	< 2	318	30	105	4.34	< 10	38	< 1	< 10	2.29	30	72	5.14	0.74	1.93	0.31	0.046	< 10	7	< 10
30167	0.6	0.6	323	243	< 2	36	17	85	3.68	< 10	86	< 1	< 10	1.69	21	92	4.36	0.78	1.72	0.27	0.032	< 10	6	< 10
30188	0.5	0.8	225	283	< 2	84	21	90	6.14	< 10	177	< 1	< 10	3.14	22	96	6.54	1.44	2.48	0.40	0.070	< 10	10	< 10
30169	0.4	0.7	237	541	< 2	117	20	85	2.43	< 10	42	< 1	< 10	2.12	31	175	4.43	0.23	2.01	0.07	0.026	< 10	6	< 10
30170	0.7	< 0.5	1590	307	< 2	1720	< 2	26	5.25	< 10	23	< 1	< 10	3.02	50	164	3.76	0.04	3.36	0.33	0.003	< 10	3	< 10
30171	< 0.2	0.8	90	437	3	45	10	117	2.77	< 10	144	< 1	< 10	1.65	12	114	3.32	0.59	1.98	0.07	0.012	< 10	5	< 10
30172	< 0.2	< 0.5	123	484	< 2	62	9	89	2.74	< 10	83	< 1	< 10	2.05	25	160	4.50	0.53	2.30	0.06	0.026	< 10	7	< 10
30173	< 0.2	< 0.5	102	593	< 2	69	11	77	2.32	< 10	24	< 1	< 10	2.18	27	153	4.11	0.14	1.85	0.10	0.034	< 10	8	< 10
30174	< 0.2	0.5	161	553	< 2	75	13	94	2.49	< 10	31	< 1	< 10	2.20	29	169	4.69	0.16	1.93	0.11	0.043	< 10	9	< 10
30175	< 0.2	< 0.5	104	522	< 2	66	6	86	3.12	< 10	62	< 1	< 10	2.16	27	164	5.38	0.38	2.61	0.10	0.040	< 10	11	< 10
30178	0.2	< 0.5	119	423	< 2	58	8	69	3.55	< 10	60	< 1	< 10	3.03	21	140	4.08	0.28	1.93	0.20	0.040	< 10	9	< 10
30177	0.2	0.5	219	308	< 2	78	12	104	3.20	< 10	47	< 1	< 10	2.39	33	163	5.06	0.24	2.23	0.14	0.042	< 10	9	< 10
30178	< 0.2	< 0.5	112	491	< 2	53	7	67	2.68	< 10	59	< 1	< 10	1.60	23	136	4.89	0.34	2.54	0.05	0.022	< 10	8	< 10
30189	< 0.2	< 0.5	63	350	< 2	14	5	43	2.45	< 10	78	< 1	< 10	0.81	7	87	2.86	0.50	1.56	0.06	0.010	< 10	4	< 10
30200	0.8	1.4	8020	286	< 2	> 10000	5	42	0.45	< 10	4	< 1	< 10	0.38	465									

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30201	< 0.2	< 0.5	117	353	< 2	23	2	41	2.74	< 10	90	< 1	< 10	0.77	7	116	2.99	0.54	2.01	0.06	0.010	< 10	4	< 10
30202	< 0.2	< 0.5	3	370	< 2	13	3	68	2.20	< 10	75	< 1	< 10	0.62	8	78	2.87	0.36	2.13	0.06	0.014	< 10	5	< 10
30203	< 0.2	< 0.5	143	571	< 2	39	9	81	2.37	< 10	18	< 1	< 10	2.41	25	97	5.09	0.09	1.52	0.14	0.048	< 10	13	< 10
30204	< 0.2	0.7	139	516	< 2	37	8	104	2.18	< 10	28	< 1	< 10	2.17	25	94	5.56	0.12	1.43	0.12	0.052	< 10	11	< 10
30205	< 0.2	< 0.5	251	347	< 2	13	3	156	2.14	< 10	103	< 1	< 10	0.19	8	76	4.65	0.48	1.43	0.05	0.016	< 10	3	< 10
30206	< 0.2	< 0.5	4	480	< 2	8	4	108	2.54	< 10	97	< 1	< 10	0.76	4	80	2.58	0.85	1.70	0.09	0.018	< 10	3	< 10
30207	< 0.2	< 0.5	23	735	< 2	17	5	138	3.66	< 10	223	1	< 10	1.45	15	67	4.46	1.11	2.21	0.16	0.078	< 10	6	< 10
30208	0.4	< 0.5	48	890	< 2	14	6	105	3.37	< 10	222	< 1	< 10	1.54	13	66	3.93	1.10	1.68	0.18	0.067	< 10	7	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
29255	17	0.17	79	< 10	9	6	0.068
29267	5	0.05	10	< 10	6	5	0.137
29288	6	0.08	25	< 10	11	14	0.038
29288	5	0.05	20	< 10	14	13	0.180
29280	2	< 0.01	< 1	< 10	1	4	0.077
29281	13	0.23	93	< 10	13	8	0.018
29282	19	0.26	116	< 10	12	5	0.068
29283	22	0.28	119	< 10	13	4	0.027
29284	18	0.28	89	< 10	17	6	0.023
29285	10	0.20	169	< 10	8	5	0.090
29288	8	0.08	29	< 10	< 1	2	1.882
29288	20	0.04	25	< 10	< 1	2	1.952
29290	71	0.02	35	< 10	< 1	1	0.520
29291	30	0.03	25	< 10	< 1	1	1.177
29292	12	0.03	32	< 10	< 1	2	1.734
29293	4	0.03	36	17	< 1	3	6.841
29294	14	0.03	54	< 10	< 1	3	4.790
29295	29	0.03	71	< 10	1	3	3.990
29298	5	0.05	78	< 10	3	5	7.854
29297	11	0.05	71	< 10	3	6	6.712
30069	23	0.07	31	< 10	1	1	0.405
30100	79	< 0.01	1	< 10	< 1	< 1	0.144
30101	5	0.03	16	< 10	< 1	< 1	0.135
30102	1	0.01	18	< 10	< 1	< 1	0.178
30103	< 1	0.02	17	< 10	< 1	1	0.143
30104	< 1	0.02	27	< 10	< 1	1	0.118
30105	99	0.02	15	< 10	< 1	< 1	0.064
30105	64	0.05	37	< 10	< 1	< 1	0.328
30107	23	0.03	19	< 10	1	< 1	0.188
30108	35	0.05	25	< 10	< 1	1	0.769
30169	57	0.10	136	< 10	2	2	1.628
30180	77	< 0.01	1	< 10	< 1	< 1	0.076
30181	47	0.10	82	< 10	3	2	0.909
30182	27	0.08	66	< 10	1	1	1.901
30183	39	0.08	87	< 10	1	1	1.356
30184	10	0.04	55	< 10	1	5	6.381
30185	30	0.10	60	< 10	4	2	1.888
30185	24	0.15	77	< 10	5	5	1.305
30167	20	0.13	37	< 10	5	4	0.641
30188	39	0.18	136	< 10	5	2	0.185
30166	14	0.16	96	< 10	5	3	0.443
30170	69	0.02	35	< 10	< 1	1	0.504
30171	11	0.11	19	< 10	16	9	0.101
30172	14	0.23	101	< 10	10	5	0.251
30173	15	0.17	100	< 10	8	2	0.231
30174	17	0.18	104	< 10	8	3	0.426
30175	19	0.26	123	< 10	7	3	0.219
30178	45	0.17	99	< 10	7	2	0.102
30177	28	0.20	107	< 10	7	2	0.315
30178	13	0.20	81	< 10	11	8	0.124
30189	14	0.11	26	< 10	16	28	0.039
30200	15	0.11	56	< 10	16	16	6.675

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30201	15	0.11	26	< 10	10	29	0.053
30202	9	0.13	30	< 10	19	26	0.011
30203	33	0.18	158	< 10	10	3	0.180
30204	29	0.14	145	< 10	10	3	0.345
30205	5	0.07	18	< 10	9	12	0.161
30206	11	0.08	8	< 10	13	16	0.014
30207	16	0.25	82	< 10	12	6	0.039
30208	15	0.25	73	< 10	12	9	0.051

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.2	3.3	1140	828	14	37	967	636	0.29	373	298	<1	1430	0.82	8	6	24.7	0.02	0.13	0.05	0.037	76	1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.1	0.6	5960	128	320	39	42	55	2.25	96	36	1	26	0.89	14	53	3.39	1.30	1.68	0.11	0.120	<10	6	<10
GXR-4 Cert	4.00	0.660	6020	155	310	42.0	62.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.064	0.120	4.80	7.70	5.60
GXR-2 Meas	19.3	5.0	88	1060	<2	19	799	589	3.08	20	1030	1	<10	0.81	10	27	2.37	0.96	0.55	0.21	0.064	39	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	73	938	<2	26	92	117	6.15	234	852	<1	<10	0.16	14	81	5.13	0.85	0.38	0.13	0.032	<10	20	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2720			2330											6.23							
OREAS 13P Cert			2500			2260											7.58							
2925C Ong	0.5	0.5	1690	313	<2	1710	7	28	5.68	<10	24	<1	<10	3.09	50	159	3.72	0.04	3.42	0.36	0.003	<10	3	<10
2926C Dup	0.5	<0.5	1630	322	<2	1760	2	28	5.55	<10	23	<1	<10	3.22	53	163	3.84	0.04	3.51	0.35	0.003	<10	3	<10
30105 Ong	0.4	<0.5	122	84	<2	85	3	13	6.62	<10	14	<1	<10	6.21	11	167	1.12	0.02	1.13	0.66	0.006	<10	2	<10
30105 Dup	<0.2	<0.5	119	84	<2	85	4	13	6.60	<10	18	<1	<10	6.16	10	168	1.08	0.02	1.11	0.64	0.006	<10	2	<10
30168 Ong	0.5	0.8	251	264	<2	56	21	92	6.21	<10	179	<1	<10	3.16	22	97	6.61	1.45	2.45	0.41	0.071	<10	10	<10
30168 Dup	0.5	0.8	219	262	<2	52	20	89	6.07	<10	176	<1	<10	3.11	22	95	6.47	1.42	2.45	0.40	0.070	<10	10	<10
30202 Ong	<0.2	<0.5	3	373	<2	13	3	68	2.20	<10	74	<1	<10	0.63	9	79	2.87	0.36	2.14	0.05	0.015	<10	5	<10
30202 Dup	<0.2	<0.5	3	367	<2	14	4	67	2.19	<10	75	<1	<10	0.62	8	78	2.87	0.37	2.13	0.05	0.014	<10	5	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	9	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	151		73	184	22	13	0.202
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	69		79	15	11	9	1.865
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	64		51	< 10	11	11	0.041
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	30		166	< 10	6	13	0.017
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
29250 Orig	70	0.02	35	< 10	< 1	1	0.513
29260 Dup	72	0.02	36	< 10	< 1	1	0.527
30105 Orig	89	0.02	15	< 10	< 1	< 1	0.067
30105 Dup	89	0.02	14	< 10	< 1	< 1	0.062
30168 Orig	40	0.16	136	< 10	5	2	0.192
30168 Dup	38	0.16	136	< 10	5	2	0.179
30202 Orig	9	0.13	30	< 10	19	25	0.011
30202 Dup	9	0.13	30	< 10	19	28	0.011
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 14-Jul-08
Invoice No.: A08-4057
Invoice Date: 06-Aug-08
Your Reference: DOSSIER 22812

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

80 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4057**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4057

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24323	< 0.2	< 0.5	30	25	< 2	422	< 2	45	3.54	< 10	6	< 1	< 10	0.20	48	189	4.04	< 0.01	5.02	< 0.01	0.011	< 10	< 1	< 10
24324	< 0.2	< 0.5	48	296	< 2	466	< 2	46	4.02	< 10	5	< 1	< 10	0.22	55	166	4.71	< 0.01	5.02	< 0.01	0.009	< 10	< 1	< 10
24325	< 0.2	< 0.5	53	312	< 2	473	< 2	50	4.27	< 10	5	< 1	< 10	0.24	56	159	4.91	< 0.01	8.01	0.01	0.011	< 10	< 1	< 10
24326	< 0.2	< 0.5	128	275	< 2	66	< 2	18	3.69	< 10	32	< 1	< 10	2.98	17	78	2.23	0.02	1.10	0.50	0.033	< 10	6	< 10
24327	< 0.2	< 0.5	111	308	< 2	65	< 2	19	3.65	< 10	47	< 1	< 10	2.96	17	91	2.43	0.03	1.26	0.52	0.029	< 10	8	< 10
24328	< 0.2	< 0.5	185	270	< 2	57	< 2	16	3.77	< 10	26	< 1	< 10	3.13	19	83	2.36	0.02	0.51	0.50	0.032	< 10	7	< 10
24329	< 0.2	< 0.5	213	241	< 2	96	< 2	16	2.87	< 10	24	< 1	< 10	2.59	23	83	2.38	0.02	0.98	0.39	0.031	< 10	7	< 10
24330	< 0.2	< 0.5	7	142	< 2	3	5	20	0.10	< 10	104	< 1	< 10	7.53	< 1	21	0.10	< 0.01	3.84	0.01	0.006	< 10	< 1	< 10
24331	< 0.2	< 0.5	247	244	< 2	82	< 2	18	4.03	< 10	21	< 1	< 10	3.32	21	67	2.29	0.01	0.90	0.59	0.031	< 10	6	< 10
24332	< 0.2	< 0.5	400	247	< 2	80	3	17	5.13	< 10	22	< 1	< 10	4.18	29	71	2.77	0.01	0.90	0.59	0.066	< 10	7	< 10
24471	26.7	17.8	> 10000	770	< 2	1410	92	991	3.44	< 10	9	< 1	< 10	1.23	658	128	21.7	0.09	3.22	0.02	0.012	< 10	11	13
24472	31.3	4.1	> 10000	321	< 2	1020	28	334	1.65	< 10	26	< 1	< 10	1.07	44	75	8.12	0.11	1.65	0.03	0.026	< 10	5	< 10
24473	2.1	2.1	1760	469	< 2	668	16	249	2.43	< 10	44	< 1	< 10	0.32	49	51	7.60	0.16	2.16	0.02	0.035	< 10	5	< 10
24474	0.3	0.6	280	467	< 2	20	8	109	3.16	< 10	238	< 1	< 10	0.23	11	54	5.45	0.47	2.27	0.03	0.051	< 10	8	< 10
24475	0.3	0.6	156	533	< 2	32	7	93	3.67	< 10	116	< 1	< 10	0.33	45	84	5.04	0.40	2.67	0.03	0.088	< 10	7	< 10
24476	2.3	1.3	2210	762	< 2	141	17	289	3.78	< 10	37	< 1	< 10	0.69	26	48	12.7	0.44	3.30	0.02	0.068	< 10	7	< 10
24477	< 0.2	< 0.9	132	489	< 2	11	11	316	4.35	< 10	103	< 1	< 10	0.83	11	42	9.84	0.74	3.04	0.11	0.057	< 10	7	< 10
24478	1.3	0.9	1110	510	< 2	137	7	130	2.26	< 10	31	< 1	< 10	1.15	28	38	12.5	0.54	2.22	0.02	0.077	< 10	3	< 10
24479	0.9	1.3	920	1020	< 2	84	17	253	4.39	< 10	41	< 1	< 10	1.00	25	24	12.9	0.57	3.54	0.05	0.028	< 10	5	< 10
24480	< 0.2	< 0.5	4	12	< 2	< 1	< 2	2	0.03	< 10	7	< 1	< 10	0.04	< 1	3	0.65	0.01	0.02	< 0.01	0.004	< 10	< 1	< 10
24481	< 0.2	< 0.5	21	457	3	7	4	62	2.72	< 10	81	< 1	< 10	0.29	8	62	3.01	0.40	2.42	0.02	0.093	< 10	4	< 10
24482	< 0.2	< 0.5	10	539	< 2	8	4	71	3.55	< 10	70	< 1	< 10	0.30	8	83	3.57	0.49	3.01	0.02	0.097	< 10	6	< 10
24483	< 0.2	< 0.5	2	434	2	5	6	60	3.92	< 10	144	< 1	< 10	0.27	14	55	4.81	1.01	2.66	0.02	0.083	< 10	7	< 10
24484	< 0.2	0.5	8	536	< 2	4	13	71	4.09	< 10	237	< 1	< 10	0.30	17	89	5.72	1.43	2.48	0.04	0.096	< 10	11	< 10
24485	0.3	< 0.5	48	582	3	5	15	76	3.95	< 10	249	< 1	< 10	0.39	17	94	5.79	1.46	2.29	0.04	0.090	< 10	10	< 10
24486	1.5	1.3	265	758	3	6	14	98	4.16	< 10	307	< 1	< 10	0.31	21	96	6.12	1.53	2.44	0.04	0.083	< 10	11	< 10
24487	< 0.2	< 0.5	14	831	3	5	15	117	4.41	< 10	275	< 1	< 10	0.37	15	88	8.17	1.31	2.57	0.05	0.090	< 10	11	< 10
24488	1.0	0.7	63	905	< 2	7	20	134	4.66	< 10	304	< 1	< 10	0.48	16	105	5.62	1.24	2.53	0.06	0.092	< 10	10	< 10
24489	0.4	0.5	25	852	< 2	5	16	156	4.69	< 10	395	< 1	< 10	0.63	17	85	5.56	1.33	2.50	0.08	0.085	< 10	12	< 10
24490	0.7	< 0.5	1590	312	< 2	1590	< 2	25	5.64	< 10	21	< 1	< 10	2.89	50	141	3.42	0.03	3.29	0.31	0.003	< 10	3	< 10
24562	0.4	< 0.5	166	486	< 2	7	5	51	3.75	< 10	68	< 1	< 10	0.48	13	78	4.76	0.27	2.89	0.10	0.029	< 10	6	< 10
24563	13.8	5.9	5580	836	< 2	717	5	258	3.41	< 10	21	< 1	< 10	1.14	47	44	10.4	0.12	3.47	0.04	0.070	< 10	8	< 10
24564	3.5	1.7	1610	508	< 2	102	3	90	5.22	< 10	61	< 1	< 10	0.37	22	62	7.30	2.06	5.40	0.05	0.036	< 10	12	< 10
24565	2.3	9.7	1290	504	< 2	90	3	439	5.35	< 10	35	< 1	< 10	0.30	21	63	7.39	1.17	5.87	0.02	0.034	< 10	11	< 10
24566	2.4	4.5	1160	478	< 2	119	8	202	4.84	< 10	41	< 1	< 10	0.83	24	57	8.35	0.23	5.13	0.07	0.029	< 10	11	< 10
24567	10.6	2.8	7420	191	< 2	5130	20	125	1.65	< 10	23	< 1	< 10	0.40	275	20	28.9	0.17	1.16	0.06	0.013	13	3	< 10
24568	19.7	8.3	> 10000	145	< 2	4600	25	335	1.73	< 10	17	< 1	11	0.41	242	51	29.8	0.07	0.84	0.05	0.018	< 10	2	< 10
24569	22.6	14.8	> 10000	137	< 2	4450	13	585	1.72	< 10	14	< 1	< 10	0.19	231	55	29.2	0.34	1.23	0.05	0.017	< 10	2	< 10
24600	1.2	1.9	8510	280	< 2	> 10000	< 2	46	0.64	< 10	8	< 1	< 10	0.41	642	33	34.5	0.12	0.18	0.08	0.048	< 10	4	< 10
24601	27.8	12.4	> 10000	229	< 2	2320	50	574	2.45	< 10	12	< 1	< 10	0.75	141	71	18.8	0.28	1.57	0.14	0.025	< 10	4	< 10
24622	0.4	0.6	347	528	< 2	130	5	59	2.60	< 10	12	< 1	< 10	1.36	24	148	5.03	0.04	2.83	0.10	0.030	< 10	10	< 10
24624	< 0.2	< 0.5	164	350	< 2	52	15	46	1.80	< 10	9	< 1	< 10	1.65	17	109	2.97	0.03	1.12	0.16	0.036	< 10	6	< 10
24625	0.3	0.7	280	468	< 2	64	18	113	2.23	< 10	9	< 1	< 10	1.78	22	122	3.25	0.03	1.31	0.23	0.029	< 10	7	< 10
24626	0.3	0.7	232	405	< 2	74	22	104	2.01	< 10	9	< 1	< 10	2.10	25	95	3.16	0.03	1.22	0.31	0.040	< 10	7	< 10
24627	< 0.2	0.5	180	370	< 2	86	19	72	2.80	< 10	14	< 1	< 10	2.14	23	96	3.19	0.08	1.32	0.28	0.033	< 10	8	< 10
24628	< 0.2	< 0.5	176	459	< 2	47	16	37	3.32	< 10	14	< 1	< 10	2.69	19	112	3.36	0.04	1.40	0.38	0.034	< 10	6	< 10
24629	1.0	0.8	342	726	< 2	67	7	148	2.66	< 10	52	< 1	< 10	2.68	27	126	6.63	0.17	2.73	0.02	0.047	< 10	11	< 10
24630	< 0.2	< 0.5	19	170	< 2	4	5	13	0.15	< 10	90	< 1	< 10	7.34	1	48	0.27	0.02	4.48	0.01	0.006	< 10	< 1	< 10
24631	0.6	0.5	700	542	< 2	19	6	183	3.37	< 10	97	< 1	< 10	0.93	27	49	7.78	0.37	2.77	0.02	0.043	< 10	11	< 10
24632	< 0.2	0.7	227	591	< 2	5	6	102	2.79	< 10	22	< 1	< 10	0.45	14	104	5.95	0.09	2.43	0.02	0.015	< 10	5	< 10
24760	0.2	< 0.5	15	247	< 2	2	9	16	0.10	< 10	52	< 1	< 10	10.3	< 1	21	0.22	0.01	8.21	< 0.01	0.004	< 10	< 1	< 10
24761	5.4	1.3	3280	75	< 2	300	19	69	1.92	< 10	9	< 1	< 10	1.11	44	120	1.89	0.01	0.67	0.24	0.016	< 10	2	< 10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
24762	3.4	1.0	2300	89	<2	409	11	70	1.56	<10	7	<1	<10	0.93	47	59	2.61	<0.01	0.81	0.16	0.026	<10	1	<10
24763	3.0	1.3	2060	91	<2	597	28	57	5.35	<10	11	<1	<10	3.46	59	140	3.34	0.02	0.76	0.53	0.009	<10	2	<10
24764	2.4	1.5	2700	72	<2	2150	27	78	3.83	<10	10	<1	<10	2.41	236	166	11.7	0.02	0.83	0.38	0.009	<10	1	<10
24765	2.3	1.1	3010	109	<2	2300	22	114	3.73	<10	13	<1	<10	2.36	175	104	13.1	0.04	0.81	0.28	0.008	<10	2	<10
24766	4.3	2.0	6260	77	<2	1800	25	110	3.14	<10	9	<1	<10	1.95	958	86	14.4	0.02	0.58	0.30	0.009	<10	1	<10
24767	5.0	1.4	5120	115	<2	1310	49	171	4.33	<10	16	<1	<10	2.54	152	173	8.75	0.08	1.08	0.33	0.009	<10	2	<10
24768	11.0	2.5	>10000	177	<2	1530	60	326	4.82	<10	17	<1	<10	2.79	109	165	10.8	0.08	1.30	0.27	0.011	<10	2	<10
24769	6.7	<0.5	9490	110	<2	2790	36	261	2.85	14	12	<1	<10	1.80	336	166	15.5	0.05	0.74	0.16	0.009	<10	1	<10
24760	<0.2	<0.5	224	188	<2	61	17	22	0.07	<10	109	<1	<10	9.93	10	24	0.42	0.52	5.60	0.03	0.007	<10	<1	<10
24761	4.6	8.2	4950	539	<2	691	151	638	2.85	<10	33	<1	<10	1.53	243	66	8.66	0.14	1.97	0.11	0.018	<10	6	<10
24762	7.7	8.4	9270	487	<2	1440	42	571	2.80	<10	38	<1	<10	1.87	183	83	13.1	0.35	3.24	0.03	0.015	<10	8	<10
24763	3.1	6.5	3470	409	<2	2530	44	617	1.67	<10	19	<1	<10	0.87	283	52	14.8	0.04	1.27	0.06	0.014	<10	3	<10
24764	0.7	1.2	377	438	<2	506	40	93	1.35	<10	21	<1	<10	1.75	41	144	4.06	0.04	1.28	0.06	0.040	<10	3	<10
24765	0.2	0.6	213	241	<2	169	13	99	2.21	<10	221	<1	<10	1.37	24	83	3.08	0.27	1.75	0.16	0.033	<10	4	<10
24766	<0.2	0.7	20	452	<2	40	3	179	3.77	<10	419	<1	<10	0.32	19	61	5.81	1.00	3.26	0.09	0.057	<10	13	<10
24767	<0.2	<0.5	23	176	<2	19	3	49	0.94	<10	73	<1	<10	0.33	6	149	1.56	0.18	0.77	0.03	0.019	<10	3	<10
24768	<0.2	<0.5	99	203	2	21	5	108	1.71	<10	129	<1	<10	0.46	7	116	2.67	0.32	0.95	0.06	0.011	<10	3	<10
24769	<0.2	0.8	233	260	<2	36	3	108	2.15	<10	109	<1	<10	0.24	18	63	3.65	0.43	1.35	0.06	0.016	<10	2	<10
24821	4.3	1.1	2040	133	<2	1080	24	24	4.75	<10	10	<1	<10	3.81	77	129	2.90	0.02	1.07	0.40	0.009	<10	2	<10
24822	6.5	1.7	2970	70	<2	673	20	29	4.75	<10	7	<1	<10	3.75	45	165	2.06	0.01	0.85	0.27	0.005	<10	2	<10
24823	6.2	1.7	2660	159	<2	603	18	38	3.96	<10	11	<1	<10	2.65	54	155	3.03	0.04	1.88	0.16	0.007	<10	2	<10
24824	3.2	1.7	1450	139	<2	609	15	41	4.16	<10	25	<1	<10	2.56	56	388	3.27	0.10	2.32	0.15	0.005	<10	2	<10
24825	37.7	3.8	>10000	234	<2	2540	17	91	3.12	<10	16	<1	<10	1.42	235	441	10.1	0.07	2.86	0.05	0.010	<10	2	<10
24826	3.4	1.0	1690	195	<2	788	16	54	4.59	<10	27	<1	<10	3.29	44	411	3.90	0.11	2.31	0.17	0.009	<10	2	<10
24827	3.9	1.2	1920	191	<2	3100	13	37	4.02	<10	11	<1	<10	2.37	257	172	10.3	0.03	1.65	0.18	0.004	<10	2	<10
24828	0.9	0.6	681	219	<2	726	10	77	3.68	<10	24	<1	<10	1.00	56	86	5.79	0.07	3.47	0.14	0.006	<10	6	<10
24829	1.8	1.3	1080	310	<2	703	11	91	3.98	<10	35	<1	<10	1.71	52	244	5.01	0.13	3.10	0.16	0.003	<10	5	<10
24630	0.2	<0.5	30	215	<2	24	37	8	0.13	<10	52	<1	<10	10.5	2	37	0.22	<0.01	6.05	0.02	0.003	<10	<1	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24323	3	0.03	23	< 10	< 1	1	0.073
24324	3	0.03	26	< 10	< 1	1	0.106
24325	< 1	0.03	24	< 10	< 1	1	0.099
24326	61	0.07	55	< 10	4	1	0.174
24327	59	0.09	66	< 10	4	2	0.116
24328	65	0.08	62	< 10	4	1	0.304
24329	48	0.08	56	< 10	4	2	0.406
24330	84	< 0.01	7	< 10	< 1	< 1	0.068
24331	69	0.07	49	< 10	4	1	0.435
24332	81	0.07	62	39	4	1	0.609
24471	6	0.07	117	12	4	6	9.096
24472	7	0.06	39	< 10	15	6	3.658
24473	3	0.10	37	< 10	15	8	2.097
24474	10	0.09	46	< 10	9	7	0.163
24475	9	0.07	66	< 10	11	6	0.439
24476	8	0.07	53	< 10	10	8	2.968
24477	27	0.14	156	< 10	7	6	0.371
24478	9	0.08	62	< 10	8	6	2.939
24479	18	0.06	41	< 10	10	7	2.820
24480	1	< 0.01	< 1	< 10	< 1	4	0.017
24481	6	0.06	39	< 10	7	6	0.042
24482	8	0.06	57	< 10	7	6	0.026
24483	9	0.14	72	< 10	6	5	0.008
24484	9	0.22	80	< 10	5	6	0.008
24485	12	0.25	81	< 10	6	7	0.022
24486	11	0.24	81	< 10	6	6	0.062
24487	17	0.22	81	< 10	7	7	0.019
24488	20	0.22	79	< 10	7	7	0.019
24489	29	0.24	81	< 10	8	5	0.013
24490	69	0.02	36	< 10	< 1	1	0.494
24662	16	0.06	27	< 10	4	3	0.090
24663	10	0.04	37	< 10	9	4	2.823
24664	25	0.02	106	< 10	6	2	0.263
24665	12	0.01	104	< 10	4	2	0.311
24666	28	0.02	122	< 10	4	2	0.369
24667	10	0.04	145	< 10	2	7	5.829
24668	18	0.03	171	< 10	2	8	4.296
24669	9	0.06	146	< 10	1	7	4.523
24600	17	0.09	66	< 10	17	16	6.103
24601	18	0.06	83	< 10	3	6	6.840
24622	14	0.12	99	< 10	9	4	0.379
24624	33	0.08	79	< 10	5	2	0.173
24625	30	0.08	74	< 10	5	2	0.373
24626	44	0.08	76	< 10	4	2	0.381
24627	52	0.08	77	< 10	4	2	0.336
24628	68	0.09	66	< 10	5	2	0.124
24629	6	0.16	123	< 10	10	4	0.781
24630	58	< 0.01	9	< 10	< 1	< 1	0.088
24631	5	0.26	69	< 10	16	12	1.029
24632	5	0.10	26	< 10	33	17	0.417
24760	129	< 0.01	8	< 10	1	1	0.094
24761	29	< 0.01	14	< 10	3	2	0.827

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24762	19	< 0.01	10	< 10	3	2	1.094
24763	72	< 0.01	21	< 10	2	2	1.513
24764	48	0.01	21	< 10	1	3	3.742
24765	33	0.01	28	< 10	< 1	4	3.584
24766	38	0.01	20	< 10	< 1	4	7.353
24767	35	0.02	46	< 10	1	3	3.973
24768	37	0.02	47	< 10	1	3	4.339
24769	22	0.01	48	< 10	< 1	3	4.148
24760	99	< 0.01	2	< 10	< 1	< 1	0.303
24761	29	0.04	73	< 10	4	3	3.457
24762	19	0.08	77	< 10	3	3	2.855
24763	34	0.05	77	< 10	2	5	5.285
24764	85	0.13	77	< 10	3	5	0.833
24765	72	0.12	30	< 10	6	9	0.210
24766	22	0.15	123	< 10	9	5	0.036
24767	10	0.05	32	167	3	2	0.032
24768	23	0.05	21	< 10	4	5	0.182
24769	16	0.07	16	< 10	6	6	0.336
24821	68	0.01	14	< 10	< 1	1	1.380
24822	63	< 0.01	11	< 10	< 1	< 1	0.962
24823	44	0.02	21	< 10	< 1	< 1	0.974
24824	30	0.05	34	< 10	< 1	1	0.842
24825	13	0.06	44	< 10	< 1	3	4.818
24826	38	0.04	37	< 10	2	1	1.010
24827	29	0.01	22	< 10	1	3	4.100
24828	14	0.03	47	< 10	3	2	1.614
24829	18	0.05	39	< 10	3	2	1.082
24830	119	< 0.01	2	< 10	< 1	< 1	0.119

Activation Laboratories Ltd. Report: A08-4057

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	29.1	3.3	1080	840	14	24	382	577	0.34	351	234	<1	1370	0.80	8	8	23.8	0.03	0.13	0.03	0.036	73	1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0060	122	1.58	54.0
GXR-1 Meas	25.4	3.3	1220	758	15	36	598	643	0.32	369	242	<1	1500	0.79	8	8	25.2	0.02	0.14	0.06	0.037	71	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0060	122	1.58	54.0
GXR-4 Meas	3.7	0.5	6180	135	328	36	41	67	2.88	97	37	1	22	0.89	15	52	3.44	1.55	1.61	0.10	0.118	<10	6	<10
GXR-4 Cert	4.00	0.850	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.68	0.964	0.120	4.80	7.70	5.60
GXR-4 Meas	3.4	0.7	6480	137	331	41	46	72	2.47	107	24	1	30	0.95	15	55	3.65	1.40	1.69	0.12	0.127	<10	7	<10
GXR-4 Cert	4.00	0.850	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.90	19.0	1.01	14.6	64.0	3.09	4.01	1.68	0.964	0.120	4.80	7.70	5.60
GXR-2 Meas	20.4	4.4	79	1030	<2	15	734	538	3.30	21	1040	1	<10	0.73	10	24	2.11	0.51	0.50	0.13	0.055	27	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	36.0	1.86	1.37	3.850	0.556	0.105	49.0	6.88	1.70
GXR-2 Meas	18.1	4.7	86	1000	<2	15	766	553	3.25	14	1350	1	<10	0.86	10	26	2.26	0.55	0.54	0.27	0.058	21	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	36.0	1.86	1.37	3.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.4	0.7	72	1030	<2	19	96	120	7.33	224	938	<1	<10	0.16	15	80	6.09	0.89	0.40	0.06	0.032	<10	23	<10
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	3.8	96.0	5.58	1.87	3.605	0.104	0.0360	3.80	27.8	1.70
GXR-6 Meas	0.3	0.7	79	1000	<2	27	97	128	6.82	244	929	<1	<10	0.17	15	86	6.85	0.91	0.43	0.13	0.034	<10	22	<10
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	3.8	96.0	5.58	1.87	3.605	0.104	0.0360	3.80	27.8	1.70
OREAS 13P Meas							2320																	
OREAS 13P Cert							1880																	
OREAS 13P Meas							2500																	
OREAS 13P Cert							2380																	
24530 Orig	<0.2	<0.5	8	140	<2	3	5	20	0.10	<10	101	<1	<10	7.37	<1	23	0.11	<0.01	3.77	0.01	0.005	<10	<1	<10
24530 Dup	<0.2	<0.5	7	145	<2	3	5	20	0.09	<10	107	<1	<10	7.69	<1	19	0.10	<0.01	3.91	0.01	0.006	<10	<1	<10
24482 Orig	<0.2	<0.5	10	540	<2	8	3	71	3.63	<10	71	<1	<10	0.30	8	83	3.58	0.49	3.00	0.02	0.097	<10	6	<10
24482 Dup	<0.2	<0.5	10	537	<2	7	4	71	3.57	<10	70	<1	<10	0.30	8	82	3.56	0.49	3.03	0.02	0.096	<10	6	<10
24585 Orig	2.6	4.5	1190	481	<2	121	9	204	4.67	<10	42	<1	<10	0.83	24	57	5.43	0.24	5.15	0.07	0.030	<10	11	<10
24585 Dup	2.3	4.4	1130	475	<2	117	8	200	4.60	<10	41	<1	<10	0.83	24	57	5.28	0.23	5.10	0.06	0.028	<10	11	<10
24831 Orig	0.6	1.0	704	852	<2	19	6	185	3.42	<10	101	<1	<10	0.95	28	49	7.87	0.37	2.82	0.03	0.043	<10	11	<10
24831 Dup	0.6	0.9	696	833	<2	19	6	180	3.33	<10	92	<1	<10	0.91	27	48	7.70	0.36	2.72	0.02	0.043	<10	11	<10
24822 Orig	6.5	1.5	2960	70	<2	660	21	29	4.79	<10	8	<1	<10	3.79	47	105	2.09	0.01	0.65	0.27	0.005	<10	2	<10
24822 Dup	6.5	1.8	2960	70	<2	666	20	28	4.60	<10	7	<1	<10	3.72	45	106	2.03	0.01	0.66	0.27	0.005	<10	2	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	<1	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	5	6	<2	<1	<2	2	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	198		77	178	22	14	0.200
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-1 Meas	152		77	135	23	13	0.212
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	74		83	16	11	10	1.790
GXR-4 Cert	221		87.0	30.8	14.0	188	1.77
GXR-4 Meas	75		84	13	11	10	1.959
GXR-4 Cert	221		87.0	30.8	14.0	188	1.77
GXR-2 Meas	83		90	< 10	11	10	0.033
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-2 Meas	98		49	< 10	11	13	0.040
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	31		178	< 10	7	10	0.017
GXR-6 Cert	36.0		186	1.90	14.0	110	0.0180
GXR-6 Meas	32		178	< 10	7	13	0.022
GXR-6 Cert	36.0		186	1.90	14.0	110	0.0180
OREAS 13P Meas							
OREAS 13P Cert							
OREAS 13P Meas							
OREAS 13P Cert							
24330 Orig	83	< 0.01	7	< 10	< 1	< 1	0.064
24330 Dup	85	< 0.01	7	< 10	< 1	< 1	0.067
24482 Orig	8	0.08	57	< 10	7	6	0.027
24482 Dup	8	0.08	57	< 10	7	6	0.028
24685 Orig	26	0.02	123	< 10	4	2	0.370
24685 Dup	26	0.02	121	< 10	4	2	0.367
24831 Orig	5	0.28	70	< 10	18	12	1.027
24831 Dup	4	0.28	68	< 10	18	11	1.031
24822 Orig	62	< 0.01	11	< 10	< 1	< 1	0.873
24822 Dup	63	< 0.01	11	< 10	< 1	< 1	0.901
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 14-Jul-08
Invoice No.: A08-4058
Invoice Date: 06-Aug-08
Your Reference: DOSSIER 22813

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

80 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4058**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

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Activation Laboratories Ltd. Report: A08-4058

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
24851	2.9	2.8	1020	499	<2	400	53	84	3.80	<10	20	<1	<10	3.20	50	123	5.24	0.02	2.05	0.21	0.025	<10	9	<10	
24852	3.5	3.8	1680	718	<2	1140	95	108	5.15	<10	18	<1	<10	2.63	84	82	10.0	0.06	4.10	0.19	0.008	<10	8	<10	
24853	3.3	4.8	1410	373	<2	1160	85	95	3.49	<10	10	<1	<10	2.38	82	82	8.88	0.02	2.95	0.22	0.010	<10	5	<10	
24854	8.1	14.6	3610	378	<2	1060	100	190	3.63	<10	11	<1	<10	1.55	125	130	6.93	0.02	3.32	0.22	0.010	<10	6	<10	
24855	5.2	4.1	3790	314	<2	2360	101	153	3.72	<10	14	<1	<10	1.47	170	222	14.9	0.03	2.87	0.22	0.007	<10	4	<10	
24856	9.5	4.9	8790	328	<2	2820	91	154	3.00	<10	9	<1	<10	1.15	168	252	17.1	0.01	2.50	0.08	0.007	<10	3	<10	
24857	8.7	9.4	6950	393	<2	1750	123	258	3.60	<10	8	<1	<10	1.88	101	268	12.0	0.01	2.32	0.12	0.008	<10	5	<10	
24858	4.5	8.5	3940	352	<2	1830	61	282	2.85	<10	9	<1	<10	2.28	171	388	12.4	0.01	2.09	0.14	0.015	<10	8	<10	
24859	8.6	13.6	6400	402	<2	1260	152	350	3.57	<10	8	<1	<10	2.57	138	316	9.40	0.02	2.49	0.16	0.018	<10	7	<10	
24870	0.6	0.5	1050	334	<2	1820	5	30	5.66	<10	24	<1	<10	3.28	57	166	3.96	0.04	3.63	0.36	0.003	<10	3	<10	
24801	1.9	2.1	890	313	<2	2000	36	107	2.78	<10	10	1	<10	0.12	173	86	15.4	0.04	3.50	0.02	0.011	<10	4	<10	
24902	2.5	2.5	1970	359	<2	1020	27	126	3.28	<10	25	9	<1	<10	0.17	168	59	13.6	0.03	4.28	0.02	0.021	<10	5	<10
24903	<0.2	<0.5	31	383	2	39	6	63	2.91	<10	32	2	<10	0.12	8	72	4.28	0.11	3.96	0.03	0.020	<10	4	<10	
24904	<0.2	<0.5	132	533	<2	49	<2	79	3.22	<10	35	1	<10	0.25	8	53	5.21	0.15	3.98	0.02	0.041	<10	5	<10	
24905	<0.2	<0.5	20	694	<2	8	<2	78	3.18	<10	41	1	<10	0.89	12	48	5.88	0.20	3.48	0.03	0.091	<10	9	<10	
24906	<0.2	<0.5	23	804	2	9	2	81	2.38	<10	36	<1	<10	1.34	7	69	4.38	0.14	2.63	0.03	0.038	<10	5	<10	
24907	<0.2	<0.5	70	696	<2	13	<2	98	2.65	<10	27	<1	<10	1.60	17	63	5.70	0.10	2.39	0.06	0.074	<10	10	<10	
24908	<0.2	<0.5	128	593	<2	27	3	55	2.37	<10	28	<1	<10	1.96	21	66	5.15	0.08	1.74	0.16	0.063	<10	10	<10	
24909	<0.2	<0.5	162	818	<2	38	2	58	2.88	<10	18	<1	<10	2.57	27	100	5.60	0.07	1.78	0.22	0.053	<10	13	<10	
24910	<0.2	<0.5	8	250	<2	4	4	23	0.10	<10	690	<1	<10	10.1	1	18	0.21	0.02	7.25	0.03	0.014	<10	<1	<10	
26708	0.2	0.9	191	564	<2	41	19	105	2.63	<10	18	<1	<10	2.78	23	102	5.53	0.04	1.57	0.20	0.053	<10	12	<10	
26709	1.3	0.5	1290	487	<2	56	12	59	2.73	<10	105	<1	<10	3.51	37	97	5.69	0.03	1.88	0.27	0.049	<10	10	<10	
26710	<0.2	<0.5	6	15	<2	1	<2	2	0.05	<10	11	<1	<10	0.05	1	3	0.06	0.02	0.02	0.02	0.005	<10	<1	<10	
26711	0.3	1.2	179	498	<2	111	48	108	3.11	<10	21	<1	<10	2.87	20	77	6.07	0.02	1.10	0.30	0.056	<10	10	<10	
26712	6.1	4.3	3710	408	<2	1390	227	255	3.55	<10	17	<1	<10	2.56	123	169	7.99	0.07	2.23	0.18	0.022	<10	3	<10	
26713	5.8	5.4	3950	368	<2	1590	108	318	3.11	<10	23	<1	<10	1.61	104	234	8.39	0.12	3.44	0.16	0.011	<10	3	<10	
26714	5.3	2.9	4540	309	<2	2210	57	235	2.89	<10	19	<1	<10	1.00	131	258	9.97	0.24	3.47	0.11	0.007	<10	3	<10	
26715	3.5	3.3	2530	380	<2	1800	74	265	2.63	<10	24	<1	<10	1.77	85	468	7.78	0.10	3.43	0.16	0.011	<10	4	<10	
26716	19.3	13.0	>10000	311	<2	1680	298	387	3.75	<10	19	<1	<10	2.89	135	168	8.57	0.08	2.12	0.26	0.020	<10	3	<10	
26717	16.9	12.3	8390	234	<2	1730	281	299	4.21	<10	12	<1	11	3.18	138	189	6.57	0.04	1.63	0.43	0.026	<10	4	<10	
27308	1.3	0.6	579	169	<2	190	26	38	5.05	<10	26	<1	<10	4.14	22	148	1.67	0.02	0.88	0.78	0.015	<10	4	<10	
27309	1.8	0.9	817	160	<2	291	23	44	4.49	<10	19	<1	<10	4.00	27	134	1.94	0.01	0.80	0.68	0.011	<10	4	<10	
27310	<0.2	<0.5	16	234	<2	7	4	14	0.11	<10	83	<1	<10	10.5	1	32	0.11	0.01	6.80	0.04	0.004	<10	<1	<10	
27311	1.7	1.0	1010	198	<2	344	26	48	5.10	<10	21	<1	<10	4.36	27	142	2.44	0.02	0.97	0.76	0.012	<10	5	<10	
27312	2.2	1.5	1780	213	<2	704	30	60	5.16	<10	20	<1	<10	4.43	53	185	4.20	0.02	1.16	0.67	0.008	<10	6	<10	
27313	3.4	2.4	2320	141	<2	750	43	75	4.71	<10	23	<1	<10	3.92	50	108	4.01	0.02	0.72	0.70	0.006	<10	4	<10	
27314	4.0	2.5	2540	156	<2	941	71	94	4.85	<10	27	<1	<10	3.94	52	142	4.81	0.04	0.90	0.77	0.007	<10	4	<10	
27315	2.8	1.6	1330	148	<2	353	89	68	4.57	<10	31	<1	<10	3.78	28	125	2.22	0.07	0.89	0.73	0.006	<10	4	<10	
27316	7.2	4.9	3630	159	<2	727	89	153	3.87	<10	26	<1	<10	3.29	57	116	4.09	0.06	0.86	0.62	0.007	<10	4	<10	
27317	2.5	2.0	1270	206	<2	488	93	102	4.11	<10	44	<1	<10	3.37	38	148	3.36	0.11	1.21	0.89	0.006	<10	5	<10	
28715	0.5	<0.5	451	242	<2	227	11	30	5.84	<10	155	<1	<10	4.74	28	228	2.66	0.39	1.73	0.31	0.008	<10	3	<10	
28717	<0.2	<0.5	117	294	<2	156	8	34	3.67	<10	88	<1	<10	3.44	27	234	2.77	0.21	2.00	0.13	0.010	<10	4	<10	
28718	0.2	<0.5	123	371	<2	110	5	36	2.92	<10	97	<1	<10	2.08	20	305	3.47	0.35	2.41	0.06	0.024	<10	6	<10	
28719	1.0	3.1	810	329	5	51	6	64	2.27	<10	147	<1	<10	0.23	22	73	3.97	1.17	1.95	0.06	0.018	<10	6	<10	
28720	0.5	<0.5	1680	328	<2	1750	2	29	5.77	<10	23	<1	<10	3.21	53	183	3.97	0.04	3.65	0.37	0.003	<10	3	<10	
28721	0.5	0.5	359	388	<2	71	6	42	3.35	<10	311	<1	<10	1.86	16	172	3.64	1.02	2.14	0.18	0.018	<10	10	<10	
28722	0.2	<0.5	167	237	<2	130	12	30	5.60	<10	216	<1	<10	4.60	21	206	2.31	0.45	1.72	0.34	0.010	<10	4	<10	
28723	0.2	<0.5	132	178	<2	128	9	31	5.48	<10	183	<1	<10	3.99	22	178	2.63	0.85	2.25	0.47	0.013	<10	4	<10	
28724	0.4	<0.5	359	242	<2	171	14	30	6.84	<10	54	<1	<10	5.19	20	226	2.58	0.22	1.87	0.86	0.011	<10	5	<10	
28725	0.7	<0.5	571	166	<2	193	15	21	6.89	<10	25	<1	<10	6.09	17	181	1.69	0.10	1.14	1.07	0.009	<10	4	<10	
28786	2.1	2.3	1580	450	<2	96	33	60	2.40	<10	51	<1	<10	1.05	18	125	5.28	0.16	2.33	0.10	0.033	<10	10	11	
28787	<0.2	0.6	121	522	<2	41	12	47	2.25	<10	12	<1	<10	2.22	23	117	5.38	0.02	1.28	0.13	0.061	<10	11	<10	

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
28788	0.2	0.8	180	404	< 2	41	28	56	2.32	< 10	11	< 1	< 10	2.03	25	84	5.27	0.03	1.06	0.21	0.053	< 10	10	< 10
28789	0.5	1.0	386	348	< 2	36	22	55	1.62	< 10	14	< 1	< 10	1.36	20	62	7.97	0.03	0.92	0.14	0.033	< 10	7	< 10
28790	0.8	< 0.5	1800	333	< 2	1810	< 2	29	5.95	< 10	23	< 1	< 10	3.29	56	167	4.01	0.04	3.63	0.38	0.003	< 10	3	< 10
28791	< 0.2	0.6	19	443	< 2	12	26	78	3.34	< 10	261	< 1	< 10	0.57	13	50	5.69	0.90	2.85	0.06	0.074	< 10	11	< 10
28792	< 0.2	0.5	7	459	< 2	8	21	74	3.83	< 10	403	1	< 10	0.96	14	51	5.64	0.95	2.69	0.10	0.107	< 10	13	< 10
28793	< 0.2	0.6	202	778	< 2	22	22	127	3.32	< 10	72	< 1	< 10	0.99	18	137	7.20	0.31	3.44	0.06	0.084	< 10	13	< 10
28794	< 0.2	0.6	32	858	< 2	7	16	121	4.35	< 10	124	1	< 10	1.02	14	40	6.78	0.47	3.68	0.14	0.096	< 10	12	< 10
28795	< 0.2	0.8	190	887	< 2	9	42	112	3.95	< 10	170	1	< 10	0.96	22	60	8.94	0.71	3.43	0.10	0.094	< 10	11	< 10
28796	< 0.2	0.6	35	755	< 2	11	11	130	3.93	< 10	126	1	< 10	0.65	13	39	5.84	0.70	3.33	0.09	0.099	< 10	10	< 10
28797	< 0.2	1.2	169	1090	8	34	12	250	4.25	< 10	36	< 1	< 10	1.53	26	96	8.35	0.26	4.85	0.04	0.085	< 10	14	< 10
28798	0.2	0.8	119	857	< 2	97	11	87	2.01	< 10	19	< 1	< 10	1.80	28	128	3.80	0.09	1.73	0.05	0.031	< 10	7	< 10
28799	0.2	0.7	160	809	< 2	108	9	102	3.24	< 10	15	< 1	< 10	1.66	30	219	6.32	0.07	3.65	0.05	0.023	< 10	16	< 10
28800	0.8	1.5	8830	310	2	> 10000	4	45	0.49	< 10	4	< 1	< 10	0.41	542	34	33.5	0.11	0.18	0.09	0.052	10	4	< 10
28801	0.2	< 0.5	266	954	< 2	148	5	78	5.18	< 10	14	1	< 10	0.68	33	324	5.40	0.06	6.70	0.03	0.025	< 10	28	< 10
28802	0.2	0.8	195	925	< 2	85	4	135	3.64	< 10	16	1	< 10	1.64	31	216	5.94	0.07	4.60	0.03	0.033	< 10	16	< 10
28803	0.3	1.2	195	876	< 2	80	23	213	3.61	< 10	28	1	< 10	1.60	23	171	6.22	0.11	4.47	0.03	0.056	< 10	16	< 10
28804	0.3	1.4	134	957	< 2	95	20	237	3.55	< 10	19	1	< 10	2.02	29	232	6.81	0.09	4.25	0.04	0.024	< 10	17	< 10
28805	< 0.2	1.3	194	1100	< 2	74	6	221	3.77	< 10	11	1	< 10	1.14	31	196	8.13	0.04	4.66	0.02	0.016	< 10	16	< 10
29245	19.1	27.0	> 10000	480	< 2	3100	438	891	2.51	< 10	11	< 1	22	0.74	141	143	19.2	0.32	1.57	0.14	0.018	< 10	4	24
29247	2.4	2.0	1360	394	< 2	162	126	176	2.41	< 10	148	1	< 10	0.56	14	146	4.82	0.37	1.74	0.12	0.015	< 10	4	11
29248	2.7	4.7	1630	458	< 2	136	102	180	2.75	< 10	195	1	< 10	0.21	12	173	3.98	0.70	2.98	0.10	0.012	< 10	4	22
29249	3.3	6.1	1750	588	< 2	1170	274	315	2.42	< 10	5	1	< 10	0.28	613	68	15.5	0.25	2.08	0.06	0.013	< 10	5	31
29250	0.8	2.1	8880	279	< 2	> 10000	6	42	0.46	< 10	5	< 1	< 10	0.39	544	35	34.3	0.11	0.17	0.08	0.052	10	4	< 10
29251	6.4	7.8	5280	486	< 2	1050	16	303	2.38	< 10	14	< 1	< 10	0.49	56	89	8.48	0.70	2.14	0.05	0.089	< 10	7	< 10
29252	< 0.2	< 0.5	52	893	2	19	5	89	3.35	< 10	253	1	< 10	0.43	17	73	5.63	0.80	2.85	0.04	0.095	< 10	10	< 10
29253	< 0.2	0.6	344	538	< 2	44	7	72	2.45	< 10	30	< 1	< 10	1.75	25	75	6.20	0.12	2.21	0.06	0.070	< 10	11	< 10
29254	< 0.2	< 0.5	31	809	2	16	11	120	2.74	< 10	131	1	< 10	0.88	13	87	4.86	0.50	2.77	0.08	0.048	< 10	9	< 10
29255	< 0.2	0.5	39	697	< 2	20	5	97	3.07	< 10	126	1	< 10	1.16	17	69	5.74	0.43	2.90	0.07	0.046	< 10	10	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24851	40	0.12	86	< 10	4	2	1.037
24862	27	0.07	100	< 10	2	2	2.329
24883	21	0.04	41	< 10	3	2	2.167
24884	15	0.04	66	< 10	3	3	3.042
24885	25	0.03	66	< 10	1	4	5.921
24886	20	0.03	51	< 10	1	4	6.583
24887	34	0.03	40	< 10	1	4	4.784
24888	29	0.04	83	< 10	1	4	4.863
24889	37	0.05	52	< 10	2	4	3.554
24870	73	0.02	37	< 10	1	1	0.508
24901	2	0.05	85	< 10	15	12	9.981
24902	3	0.04	55	< 10	12	11	7.218
24903	3	0.04	25	< 10	28	10	0.160
24904	3	0.11	28	< 10	17	9	0.117
24905	10	0.22	66	< 10	20	6	0.090
24906	8	0.15	28	< 10	24	11	0.079
24907	16	0.22	100	< 10	16	6	0.126
24908	31	0.16	121	< 10	11	4	0.149
24909	39	0.19	151	< 10	10	2	0.188
24910	123	0.01	11	< 10	1	< 1	0.108
26708	35	0.21	163	< 10	10	2	0.290
26709	53	0.18	155	< 10	9	2	0.894
26710	2	< 0.01	1	< 10	1	4	0.023
26711	41	0.18	167	< 10	8	2	0.368
26712	39	0.05	46	< 10	2	3	2.969
26713	15	0.06	37	< 10	2	3	2.906
26714	5	0.07	35	< 10	1	3	3.861
26715	9	0.09	46	< 10	1	2	2.551
26716	87	0.05	36	< 10	1	3	4.088
26717	90	0.05	40	< 10	2	3	4.290
27308	89	0.04	27	< 10	1	1	0.360
27309	91	0.03	21	< 10	1	1	0.852
27310	133	< 0.01	6	< 10	1	< 1	0.097
27311	98	0.04	27	< 10	1	1	0.779
27312	89	0.04	32	< 10	1	1	1.712
27313	91	0.02	20	< 10	1	1	1.985
27314	89	0.03	23	< 10	1	1	2.178
27315	83	0.03	22	< 10	1	1	0.763
27316	76	0.03	21	< 10	1	1	2.036
27317	75	0.04	30	< 10	1	1	1.128
28715	40	0.06	33	< 10	1	1	0.326
28717	24	0.11	43	< 10	1	1	0.184
28718	15	0.13	44	< 10	5	3	0.114
28719	2	0.18	30	< 10	6	3	0.478
28720	74	0.02	36	< 10	1	1	0.539
28721	17	0.15	39	< 10	5	2	0.245
28722	88	0.09	37	< 10	1	1	0.107
28723	82	0.11	40	< 10	1	1	0.058
28724	137	0.06	40	< 10	1	1	0.115
28725	166	0.05	27	< 10	1	< 1	0.208
28786	14	0.18	131	< 10	14	6	0.511
28787	39	0.18	153	< 10	8	2	0.213

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28788	40	0.12	165	< 10	7	2	0.291
28789	24	0.14	271	< 10	7	6	0.460
28790	75	0.02	37	< 10	1	1	0.553
28791	10	0.21	92	< 10	9	5	0.049
28792	10	0.17	93	< 10	6	4	0.023
28793	9	0.27	110	< 10	12	5	0.452
28794	42	0.22	91	< 10	16	5	0.096
28795	25	0.18	78	< 10	12	6	0.423
28796	22	0.14	84	< 10	9	4	0.061
28797	14	0.31	134	< 10	16	4	0.538
28798	18	0.11	80	< 10	5	2	0.481
28799	15	0.14	157	< 10	9	2	0.268
28800	16	0.12	61	< 10	16	17	8.878
28801	4	0.14	272	< 10	15	3	0.596
28802	12	0.15	176	< 10	16	2	0.147
28803	13	0.18	124	< 10	22	3	0.061
28804	12	0.15	172	< 10	12	3	0.068
28805	4	0.19	156	< 10	48	4	0.210
29246	17	0.07	89	< 10	5	8	6.036
29247	15	0.07	41	< 10	7	5	0.485
29248	9	0.10	13	< 10	9	9	0.325
29249	8	0.12	61	< 10	12	15	9.063
29250	16	0.10	61	< 10	16	17	7.890
29251	8	0.15	55	< 10	11	9	3.127
29252	8	0.21	69	< 10	19	5	0.104
29253	17	0.16	167	< 10	12	3	0.234
29254	13	0.17	85	< 10	13	6	0.048
29255	12	0.16	86	< 10	12	6	0.066

Activation Laboratories Ltd. Report: A08-4058

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	27.3	3.3	1210	778	16	24	852	524	0.35	379	295	1	1420	0.81	8	7	25.2	0.03	0.14	0.05	0.043	74	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.4	0.5	6370	141	385	41	42	59	2.62	165	20	1	19	0.99	15	60	3.68	1.54	1.78	0.13	0.134	< 10	7	< 10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.7	5.0	96	1170	< 2	19	831	613	4.04	13	1580	1	< 10	0.95	10	30	2.46	0.64	0.62	0.20	0.065	18	5	< 10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	75	1150	< 2	23	109	133	7.61	230	1050	1	< 10	0.18	16	96	7.07	1.09	0.47	0.08	0.037	< 10	25	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.9	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2530			2190											5.93							
OREAS 13P Cert			2500			2280											7.58							
24864 Ong	8.2	14.6	3560	379	< 2	1060	100	131	3.61	< 10	10	< 1	< 10	1.56	126	130	8.92	0.02	3.33	0.22	0.010	< 10	6	< 10
24864 Dup	7.9	14.6	3650	376	< 2	1090	100	189	3.65	< 10	12	< 1	< 10	1.55	125	129	8.95	0.02	3.30	0.22	0.010	< 10	5	< 10
24908 Ong	< 0.2	< 0.5	126	599	< 2	27	2	56	2.31	< 10	26	< 1	< 10	1.97	21	66	5.22	0.08	1.75	0.16	0.064	< 10	10	< 10
24908 Dup	< 0.2	< 0.5	129	587	< 2	27	3	54	2.42	< 10	29	< 1	< 10	1.94	21	66	5.09	0.08	1.72	0.17	0.062	< 10	10	< 10
28715 Ong	0.5	< 0.5	446	240	< 2	225	12	30	5.80	< 10	152	< 1	< 10	4.74	28	225	2.64	0.37	1.71	0.30	0.008	< 10	3	< 10
28715 Dup	0.5	< 0.5	455	244	< 2	225	9	30	5.87	< 10	157	< 1	< 10	4.75	27	230	2.69	0.38	1.75	0.31	0.008	< 10	3	< 10
28790 Ong	0.6	< 0.5	1820	336	< 2	1640	< 2	29	6.01	< 10	23	< 1	< 10	3.32	55	166	4.06	0.04	3.66	0.38	0.003	< 10	3	< 10
28790 Dup	0.7	0.6	1770	329	< 2	1790	3	29	5.88	< 10	23	< 1	< 10	3.26	56	165	3.97	0.04	3.61	0.38	0.003	< 10	3	< 10
28603 Ong	0.3	1.2	151	875	< 2	79	24	218	3.61	< 10	25	< 1	< 10	1.60	23	172	6.20	0.11	4.45	0.03	0.034	< 10	15	< 10
28603 Dup	0.3	1.2	167	876	< 2	80	22	209	3.62	< 10	26	< 1	< 10	1.59	23	170	6.24	0.11	4.48	0.03	0.036	< 10	15	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	9	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	207		81	136	25	16	0.234
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	81		85	11	12	10	2.045
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	112		53	< 10	13	11	0.043
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	35		186	< 10	8	5	0.019
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
24864 Orig	15	0.03	66	< 10	3	3	3.038
24864 Dup	15	0.04	66	< 10	3	3	3.045
24908 Orig	31	0.17	121	< 10	11	4	0.141
24908 Dup	30	0.18	120	< 10	10	3	0.157
28715 Orig	40	0.08	33	< 10	1	1	0.324
28715 Dup	40	0.08	33	< 10	1	1	0.328
28790 Orig	75	0.02	37	< 10	1	1	0.556
28790 Dup	74	0.02	36	< 10	1	1	0.549
28803 Orig	13	0.18	124	< 10	22	3	0.081
28803 Dup	13	0.17	124	< 10	21	3	0.082
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 14-Jul-08
Invoice No.: A08-4059
Invoice Date: 06-Aug-08
Your Reference: DOSSIER 22814

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

96 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4059**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

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Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26748	< 0.2	< 0.5	47	718	< 2	82	32	44	3.64	< 10	11	< 1	< 10	4.10	26	234	5.15	0.02	3.12	0.11	0.015	< 10	13	< 10	
26749	< 0.2	< 0.5	94	778	< 2	59	11	59	2.62	< 10	12	< 1	< 10	2.86	26	90	6.32	0.05	1.94	0.27	0.042	< 10	13	< 10	
26750	0.8	1.7	8530	319	< 2	> 10000	5	44	0.47	< 10	4	< 1	< 10	0.41	544	34	33.1	0.10	0.17	0.09	0.051	< 10	4	< 10	
26751	< 0.2	< 0.5	66	453	< 2	57	6	29	4.03	< 10	15	< 1	< 10	3.83	17	150	2.97	0.03	1.85	0.39	0.015	< 10	9	< 10	
26752	< 0.2	< 0.5	56	519	< 2	72	6	37	4.24	< 10	14	< 1	< 10	4.23	21	199	3.91	0.03	2.53	0.37	0.014	< 10	12	< 10	
26753	< 0.2	< 0.5	25	267	< 2	80	< 2	19	3.30	< 10	12	< 1	< 10	2.97	14	178	2.11	0.03	1.74	0.35	0.002	< 10	4	< 10	
26963	1.3	< 0.5	2280	312	< 2	333	4	29	4.20	< 10	12	< 1	< 10	3.69	53	94	3.34	0.03	2.11	0.32	0.004	< 10	3	< 10	
26964	< 0.2	< 0.5	123	186	< 2	76	3	15	4.48	< 10	18	< 1	< 10	3.66	12	109	1.59	0.03	1.08	0.63	0.04	< 10	4	< 10	
26965	< 0.2	< 0.5	123	211	< 2	70	3	17	5.01	< 10	13	< 1	< 10	4.31	11	169	1.71	0.04	1.57	0.44	0.014	< 10	3	< 10	
26966	< 0.2	< 0.5	24	97	< 2	63	6	10	6.12	< 10	13	< 1	< 10	4.89	7	136	1.09	0.03	1.11	0.61	0.006	< 10	2	< 10	
26967	< 0.2	< 0.5	20	73	< 2	42	8	7	5.74	< 10	28	< 1	< 10	4.85	8	208	0.83	0.08	0.88	0.69	0.004	< 10	3	< 10	
26968	0.4	< 0.5	250	84	< 2	101	13	12	7.60	< 10	38	< 1	< 10	6.05	13	225	1.16	0.10	0.66	1.10	0.009	< 10	3	< 10	
26969	0.3	< 0.5	194	84	< 2	67	11	12	6.37	< 10	57	< 1	< 10	4.63	9	306	1.07	0.21	0.77	0.92	0.010	< 10	3	< 10	
26970	0.6	< 0.5	1650	322	< 2	1750	< 2	28	5.59	< 10	24	< 1	< 10	3.18	55	161	3.87	0.04	3.51	0.37	0.003	< 10	3	< 10	
26991	< 0.2	< 0.5	77	62	< 2	35	9	7	7.27	< 10	12	< 1	< 10	6.04	5	126	0.63	0.01	0.46	0.64	0.007	< 10	3	< 10	
27338	13.8	14.5	> 10000	230	< 2	2420	129	551	3.24	< 10	12	< 1	15	2.80	125	132	10.7	0.01	0.91	0.48	0.012	< 10	4	< 10	
27339	6.8	7.4	4910	245	< 2	2320	115	281	3.85	< 10	13	< 1	< 10	3.30	118	165	9.90	0.02	0.94	0.52	0.010	< 10	5	< 10	
27340	0.6	< 0.5	1730	332	< 2	1800	< 2	30	5.68	< 10	24	< 1	< 10	3.27	56	166	4.00	0.04	3.63	0.38	0.003	< 10	3	< 10	
27341	5.5	4.7	4410	270	< 2	2200	78	223	2.99	< 10	14	< 1	< 10	2.88	157	154	9.35	0.01	1.02	0.49	0.008	< 10	5	< 10	
27342	8.3	7.7	7320	248	< 2	1970	92	318	3.65	< 10	12	< 1	< 10	3.29	120	176	8.97	0.01	0.93	0.49	0.015	< 10	5	< 10	
27343	3.7	4.4	2920	292	< 2	1130	105	152	4.31	< 10	11	< 1	< 10	3.82	81	233	5.07	0.01	1.16	0.52	0.016	< 10	4	< 10	
27344	6.2	6.2	4400	267	< 2	2040	106	174	4.51	< 10	13	< 1	< 10	3.98	114	178	8.51	0.01	1.08	0.41	0.009	< 10	3	< 10	
27345	7.6	7.0	5890	273	< 2	1380	71	200	3.46	< 10	11	< 1	< 10	3.21	107	226	6.89	0.02	1.62	0.22	0.013	< 10	5	< 10	
27346	8.7	9.4	6120	253	< 2	1670	117	211	4.88	< 10	16	< 1	< 10	3.80	116	171	7.43	0.04	1.95	0.32	0.013	< 10	3	< 10	
27347	3.5	4.2	2360	218	< 2	1050	151	128	6.00	< 10	19	< 1	< 10	4.66	59	125	5.10	0.06	1.80	0.35	0.012	< 10	3	< 10	
27368	< 0.2	< 0.5	120	959	< 2	29	7	75	3.06	< 10	116	< 1	< 10	1.67	18	63	5.82	0.41	2.44	0.08	0.078	< 10	11	< 10	
27369	< 0.2	< 0.5	30	734	< 2	13	22	127	3.77	< 10	127	< 1	< 10	1.14	13	58	5.58	0.67	3.18	0.09	0.064	< 10	9	< 10	
27370	0.6	< 0.5	1630	316	< 2	1690	3	27	5.65	< 10	25	< 1	< 10	3.10	52	168	3.81	0.04	3.47	0.36	0.003	< 10	3	< 10	
27371	< 0.2	< 0.5	5	335	< 2	5	4	60	2.40	< 10	115	< 1	< 10	0.07	3	98	2.87	0.58	2.00	0.04	0.009	< 10	3	< 10	
27372	0.4	0.7	471	525	3	17	4	142	2.60	< 10	105	< 1	< 10	0.42	11	86	5.69	0.54	2.18	0.04	0.028	< 10	6	< 10	
27373	0.2	0.6	507	394	< 2	19	4	100	2.60	< 10	108	< 1	< 10	0.21	22	96	5.02	0.43	1.69	0.04	0.027	< 10	4	< 10	
27374	1.7	2.7	2450	405	3	9	40	213	1.70	< 10	45	< 1	< 10	0.19	29	81	3.90	0.28	1.20	0.03	0.012	< 10	1	< 10	
27375	0.2	0.5	285	558	< 2	38	9	127	2.34	< 10	94	< 1	< 10	0.72	13	104	3.41	0.38	1.55	0.05	0.025	< 10	5	< 10	
27376	< 0.2	< 0.5	159	948	< 2	62	2	117	3.48	< 10	76	< 1	< 10	2.03	23	73	6.25	0.26	2.55	0.05	0.062	< 10	12	< 10	
27378	< 0.2	< 0.5	139	913	< 2	10	8	98	3.80	< 10	114	< 1	< 10	0.70	14	53	5.82	0.68	3.40	0.06	0.087	< 10	9	< 10	
28468	< 0.2	< 0.5	49	511	< 2	9	22	152	3.49	< 10	244	< 1	< 10	0.21	9	59	6.34	0.85	2.65	0.06	0.061	< 10	10	< 10	
28175	5.4	5.7	3120	426	< 2	603	211	234	2.83	< 10	34	< 1	< 10	2.28	52	286	6.31	0.09	2.65	0.12	0.040	< 10	7	< 10	
28177	28.7	22.1	> 10000	185	< 2	3900	127	1090	1.42	< 10	11	8	< 1	< 10	1.41	235	140	22.0	0.03	1.29	0.05	0.050	< 10	2	< 10
28178	24.2	13.2	> 10000	241	< 2	2630	134	626	1.47	< 10	7	< 1	< 10	1.32	663	36	22.0	0.07	1.22	0.03	0.020	< 10	3	16	
28179	10.7	8.9	8720	339	< 2	1230	460	530	1.94	< 10	11	< 1	< 10	1.28	412	44	12.7	0.09	1.77	0.03	0.017	< 10	4	10	
28180	0.3	< 0.5	171	167	< 2	20	7	26	0.03	< 10	85	< 1	< 10	6.42	3	51	0.21	0.01	4.87	0.02	0.003	< 10	< 1	< 10	
28181	10.8	11.7	4770	541	< 2	599	422	535	2.89	< 10	32	< 1	23	1.70	50	203	7.16	0.09	1.82	0.13	0.029	< 10	7	22	
28182	24.4	44.4	> 10000	361	< 2	4270	314	1890	2.39	< 10	7	< 1	< 10	0.67	281	55	27.7	0.15	1.45	0.16	0.024	< 10	4	21	
28183	33.4	50.3	> 10000	305	< 2	5720	175	2040	1.53	< 10	8	< 1	< 10	0.45	322	29	34.1	0.04	0.68	0.07	0.026	< 10	2	28	
28184	49.3	71.3	> 10000	397	< 2	3070	224	2840	1.59	< 10	10	< 1	< 10	0.98	234	41	25.2	0.04	0.90	0.10	0.037	< 10	3	28	
28185	28.8	15.7	> 10000	415	< 2	2920	316	704	1.64	< 10	12	< 1	< 10	0.70	150	46	19.1	0.05	1.33	0.04	0.038	< 10	4	16	
28686	0.9	0.6	463	186	< 2	79	5	33	5.48	< 10	10	< 1	< 10	4.21	11	110	1.64	0.03	1.28	0.66	0.034	< 10	4	< 10	
28687	0.2	< 0.5	175	91	< 2	57	9	16	8.32	< 10	13	< 1	< 10	4.74	7	147	0.96	0.03	0.91	0.88	0.003	< 10	3	< 10	
28688	< 0.2	< 0.5	189	111	< 2	56	6	14	5.80	< 10	13	< 1	< 10	4.47	8	174	1.12	0.03	1.06	0.71	0.003	< 10	4	< 10	
28689	< 0.2	< 0.5	89	97	< 2	47	7	14	7.29	< 10	14	< 1	< 10	5.32	7	166	1.06	0.03	1.03	0.87	0.003	< 10	3	< 10	
28690	0.6	< 0.5	1750	327	< 2	1760	< 2	29	5.81	< 10	24	< 1	< 10	3.22	54	164	3.93	0.04	3.59	0.38	0.003	< 10	4	< 10	
28691	0.2	< 0.5	257	87	< 2	60	7	13	6.76	< 10	18	< 1	< 10	5.05	8	169	0.86	0.05	0.85	0.78					

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
28592	< 0.2	< 0.5	8	72	< 2	38	7	12	6.43	< 10	25	< 1	< 10	5.00	6	140	0.81	0.05	0.78	0.77	0.005	< 10	2	< 10
28603	< 0.2	< 0.5	16	117	< 2	46	6	15	6.46	< 10	57	< 1	< 10	4.82	7	171	1.13	0.10	1.06	0.72	0.007	< 10	3	< 10
28694	< 0.2	< 0.5	28	85	< 2	98	5	18	7.54	< 10	213	< 1	< 10	6.27	8	192	1.19	0.28	0.92	0.72	0.008	< 10	3	< 10
28695	0.2	< 0.5	260	175	< 2	56	3	42	2.75	< 10	320	< 1	< 10	0.73	18	128	3.57	0.90	2.40	0.19	0.024	< 10	7	< 10
28746	1.1	0.5	616	199	< 2	174	75	45	5.86	< 10	13	< 1	< 10	4.80	24	168	1.93	0.03	0.97	0.64	0.012	< 10	5	< 10
28747	0.8	< 0.5	383	195	< 2	144	79	46	5.71	< 10	11	< 1	< 10	4.67	19	186	1.99	0.03	1.11	0.65	0.009	< 10	5	< 10
28748	0.7	0.9	306	193	< 2	120	118	57	6.34	< 10	12	< 1	< 10	5.10	16	178	1.83	0.02	1.04	0.69	0.007	< 10	5	< 10
28749	1.2	1.3	1180	296	< 2	400	91	85	5.25	< 10	10	< 1	< 10	4.32	36	238	3.86	0.03	1.40	0.50	0.008	< 10	6	< 10
28750	0.9	1.7	9050	303	< 2	> 10000	7	40	0.50	< 10	9	< 1	< 10	0.40	527	33	33.6	0.11	0.17	0.10	0.050	< 10	4	< 10
28761	6.3	4.1	4400	238	< 2	1360	133	205	4.73	< 10	9	< 1	< 10	3.92	99	211	6.33	0.02	1.30	0.40	0.010	< 10	6	< 10
28752	8.5	5.8	5340	215	< 2	1620	163	265	4.47	< 10	11	< 1	< 10	3.41	83	182	8.92	0.03	1.24	0.44	0.009	< 10	5	< 10
28753	13.5	8.0	8020	235	< 2	2510	148	341	3.60	< 10	10	< 1	< 10	2.51	105	243	8.86	0.03	1.30	0.37	0.012	< 10	4	< 10
28764	10.4	7.1	6170	194	< 2	1880	152	272	4.51	< 10	14	< 1	< 10	3.30	117	210	8.15	0.04	1.32	0.54	0.012	< 10	6	< 10
28755	4.4	3.5	3270	273	< 2	1350	81	121	3.44	< 10	9	< 1	< 10	2.80	95	175	8.94	0.01	1.18	0.26	0.014	< 10	5	< 10
28806	0.5	< 0.5	434	104	< 2	147	8	17	6.12	< 10	9	< 1	< 10	4.64	13	190	1.40	0.03	1.18	0.67	0.004	< 10	4	< 10
28807	0.5	< 0.5	464	176	< 2	241	3	26	5.03	< 10	19	< 1	< 10	3.37	29	168	2.77	0.12	2.67	0.32	0.007	< 10	4	< 10
28808	0.7	< 0.5	465	159	< 2	262	8	15	8.51	< 10	12	< 1	< 10	6.33	18	290	1.78	0.05	1.26	0.66	0.006	< 10	3	< 10
28809	0.7	< 0.5	372	113	< 2	216	7	16	7.36	< 10	12	< 1	< 10	6.27	16	207	1.32	0.03	0.89	0.77	0.006	< 10	2	< 10
28810	0.2	< 0.5	10	198	< 2	6	4	10	0.13	< 10	235	< 1	< 10	10.4	< 1	17	0.07	0.01	5.70	0.03	0.003	< 10	< 1	< 10
28811	0.3	< 0.5	153	111	< 2	70	9	10	6.62	< 10	16	< 1	< 10	4.96	8	204	1.02	0.04	0.65	0.94	0.010	< 10	2	< 10
28812	0.3	< 0.5	149	154	< 2	122	13	18	8.02	< 10	18	< 1	< 10	6.14	12	188	1.38	0.03	0.92	1.08	0.010	< 10	4	< 10
28813	0.4	< 0.5	121	128	< 2	44	12	13	7.22	< 10	14	< 1	< 10	5.44	6	164	1.00	0.02	0.75	0.94	0.006	< 10	3	< 10
28814	0.2	< 0.5	51	102	< 2	38	22	17	6.92	< 10	30	< 1	< 10	6.39	6	199	0.92	0.07	0.74	0.68	0.008	< 10	3	< 10
28815	0.8	0.5	391	292	< 2	64	6	79	2.80	< 10	95	< 1	< 10	0.59	13	300	2.86	0.26	2.07	0.13	0.009	< 10	4	< 10
28845	0.5	< 0.5	154	219	< 2	131	21	24	5.93	< 10	19	< 1	< 10	4.72	25	150	2.07	0.07	1.62	0.43	0.008	< 10	5	< 10
28847	0.6	< 0.5	392	292	< 2	366	16	23	4.38	< 10	13	< 1	< 10	3.85	31	168	2.62	0.04	1.67	0.26	0.021	< 10	4	< 10
28848	0.3	< 0.5	209	172	< 2	205	25	30	5.00	< 10	14	< 1	< 10	3.91	23	112	1.93	0.05	1.50	0.33	0.009	< 10	3	< 10
28849	1.4	0.8	1050	169	< 2	944	39	51	4.37	< 10	19	< 1	< 10	2.97	47	165	4.54	0.07	1.48	0.35	0.010	< 10	2	< 10
28850	0.9	1.7	9360	306	< 2	> 10000	4	41	0.50	< 10	5	< 1	< 10	0.40	637	39	34.3	0.11	0.19	0.05	0.051	< 10	4	< 10
28851	3.4	1.7	2690	271	< 2	2080	62	69	4.95	< 10	23	< 1	< 10	2.87	157	259	9.07	0.03	2.04	0.48	0.010	< 10	3	< 10
28862	12.5	4.2	8290	304	< 2	2210	34	151	2.34	< 10	7	< 1	< 10	1.46	65	236	8.28	0.01	1.95	0.06	0.013	< 10	2	< 10
28863	2.8	2.1	1900	385	< 2	852	49	114	3.49	< 10	13	< 1	< 10	1.88	55	570	5.88	0.04	3.17	0.16	0.008	< 10	4	< 10
28864	6.9	3.5	4070	242	< 2	1900	73	155	3.44	< 10	15	< 1	< 10	1.88	108	402	5.97	0.05	2.85	0.13	0.007	< 10	2	< 10
28865	10.3	5.6	6120	192	< 2	2060	61	155	3.30	< 10	13	< 1	< 10	2.16	109	332	8.23	0.05	1.95	0.19	0.010	< 10	3	< 10
30139	2.3	2.2	1980	352	< 2	47	5	239	3.41	< 10	305	< 1	< 10	0.23	11	92	3.24	0.63	1.97	0.16	0.008	< 10	6	< 10
30140	0.6	< 0.5	1850	329	< 2	1780	2	28	6.08	< 10	25	< 1	< 10	3.23	55	165	3.95	0.04	3.61	0.40	0.003	< 10	3	< 10
30141	6.5	3.4	3910	159	< 2	1370	38	135	6.65	< 10	15	< 1	< 10	4.80	54	63	4.19	0.01	0.89	0.42	0.008	< 10	2	< 10
30142	5.4	2.7	2840	99	< 2	1620	52	55	6.52	< 10	14	< 1	< 10	5.33	79	123	4.03	0.01	0.74	0.50	0.004	< 10	3	< 10
30143	3.5	2.1	1630	194	< 2	694	53	52	5.70	< 10	11	< 1	< 10	4.86	44	240	2.79	0.02	1.24	0.56	0.006	< 10	6	< 10
30144	4.4	2.2	2130	146	< 2	914	55	54	5.85	< 10	12	< 1	< 10	4.81	57	137	3.32	0.01	0.91	0.62	0.005	< 10	5	< 10
30145	1.5	1.3	1370	120	< 2	1100	45	52	4.66	< 10	14	< 1	< 10	3.97	70	66	4.50	0.01	0.75	0.57	0.005	< 10	3	< 10
30146	2.2	1.5	1930	133	< 2	1150	49	57	4.85	< 10	13	< 1	< 10	3.85	92	69	5.19	0.01	0.85	0.56	0.005	< 10	4	< 10
30147	1.8	1.3	2010	91	< 2	1750	41	79	4.71	< 10	23	< 1	< 10	3.43	130	95	7.77	0.16	0.97	0.63	0.007	< 10	4	< 10
30148	2.3	1.4	2060	136	< 2	1670	44	100	4.73	< 10	26	< 1	< 10	3.59	148	186	8.66	0.20	1.15	0.54	0.004	< 10	6	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26748	20	0.09	108	< 10	4	1	0.053
26749	31	0.16	130	< 10	9	2	0.162
26750	18	0.12	80	< 10	18	17	10.29
26751	55	0.05	64	< 10	3	1	0.065
26752	51	0.06	88	< 10	3	1	0.067
26822	59	0.03	30	< 10	1	1	0.067
26863	66	0.03	23	< 10	1	1	0.768
26894	87	0.04	22	< 10	1	1	0.124
26865	76	0.03	19	< 10	1	1	0.047
26866	94	0.01	16	< 10	1	< 1	0.036
26887	85	0.04	20	< 10	1	< 1	0.035
26888	128	0.04	32	< 10	2	1	0.149
26889	95	0.04	37	< 10	3	1	0.093
26900	73	0.02	36	< 10	1	1	0.525
26991	110	0.03	17	< 10	1	< 1	0.058
27338	86	0.04	36	< 10	1	3	6.470
27339	73	0.05	45	< 10	1	3	4.573
27340	74	0.02	37	< 10	1	1	0.547
27341	54	0.05	42	< 10	1	3	4.338
27342	70	0.05	56	< 10	1	3	4.043
27343	75	0.03	33	< 10	1	2	2.048
27344	88	0.03	29	< 10	1	2	3.826
27345	53	0.05	36	< 10	2	2	3.112
27346	73	0.04	24	< 10	1	2	2.929
27347	89	0.04	23	< 10	1	1	1.594
27368	17	0.11	120	< 10	12	4	0.111
27369	19	0.14	84	< 10	14	4	0.037
27370	72	0.02	36	< 10	1	1	0.507
27371	6	0.05	3	< 10	11	24	0.009
27372	7	0.14	40	< 10	12	7	0.223
27373	7	0.08	30	< 10	11	9	0.561
27374	4	0.04	3	< 10	19	12	0.927
27375	8	0.12	43	< 10	17	9	0.102
27376	17	0.26	118	< 10	14	4	0.151
27378	15	0.15	66	< 10	16	4	0.230
28468	6	0.13	62	< 10	9	4	0.106
28175	28	0.11	64	< 10	3	6	1.438
28177	19	0.08	28	< 10	3	13	9.960
28178	17	0.10	33	< 10	4	6	10.33
28179	15	0.10	38	< 10	5	4	7.451
28180	80	< 0.01	6	< 10	< 1	1	0.148
28181	37	0.12	133	< 10	4	2	1.763
28182	27	0.07	92	< 10	3	6	9.344
28183	15	0.06	105	< 10	2	7	7.140
28184	18	0.08	81	< 10	3	6	9.138
28185	10	0.10	71	< 10	7	6	7.934
28686	97	0.09	28	< 10	2	1	0.138
28687	111	0.02	14	< 10	< 1	< 1	0.083
28688	92	0.02	16	< 10	1	< 1	0.062
28689	117	0.02	16	< 10	1	< 1	0.057
28690	75	0.02	37	< 10	1	1	0.526
28691	112	0.02	14	< 10	< 1	< 1	0.069

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28592	103	0.02	14	< 10	< 1	< 1	0.037
28593	91	0.03	19	< 10	1	< 1	0.036
28594	74	0.05	24	< 10	1	< 1	0.040
28595	17	0.15	27	< 10	5	4	0.106
28746	117	0.04	31	< 10	1	1	0.351
28747	103	0.04	30	< 10	1	1	0.348
28748	117	0.04	29	< 10	1	1	0.224
28749	85	0.05	44	< 10	2	2	1.142
28750	17	0.12	60	< 10	17	17	6.622
28751	73	0.04	37	< 10	1	2	2.676
28752	69	0.03	30	< 10	1	2	3.028
28753	53	0.03	42	< 10	1	3	4.453
28754	69	0.05	47	< 10	1	2	3.768
28755	41	0.05	56	< 10	5	2	3.283
28606	123	0.03	24	< 10	1	< 1	0.138
28807	88	0.05	27	< 10	1	1	0.180
28608	179	0.04	37	< 10	1	1	0.205
28609	155	0.02	22	< 10	1	< 1	0.167
28810	169	< 0.01	7	< 10	1	< 1	0.090
28811	147	0.03	23	< 10	1	< 1	0.073
28812	175	0.04	32	< 10	1	< 1	0.125
28813	146	0.03	23	< 10	1	< 1	0.060
28614	111	0.04	29	< 10	1	< 1	0.046
28815	15	0.09	39	< 10	3	2	0.083
28645	87	0.05	39	< 10	2	1	0.160
28647	54	0.06	39	< 10	2	1	0.373
28648	58	0.04	24	< 10	1	1	0.169
28649	52	0.05	25	< 10	1	2	1.606
28850	16	0.13	62	< 10	17	18	9.442
28651	62	0.05	29	< 10	2	4	3.887
28652	8	0.05	20	< 10	2	4	3.337
28853	15	0.05	39	< 10	1	2	0.935
28654	17	0.05	26	< 10	1	2	1.767
28855	26	0.04	26	< 10	1	2	2.490
30139	10	0.07	13	< 10	2	4	0.326
30140	75	0.02	37	< 10	1	1	0.528
30141	71	0.02	12	< 10	1	1	1.738
30142	94	0.02	16	< 10	1	1	1.778
30143	93	0.02	26	< 10	1	1	0.846
30144	88	0.02	22	< 10	1	1	1.303
30145	73	0.02	17	< 10	1	1	1.816
30146	73	0.02	19	< 10	1	1	2.162
30147	64	0.04	30	< 10	1	2	3.349
30148	68	0.05	46	< 10	1	2	3.673

Activation Laboratories Ltd. Report: A08-4059

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.0	3.2	1190	112	15	37	813	533	0.34	372	316	1	1440	0.79	8	8	25.1	0.02	0.14	0.06	0.044	73	1	28
GXR-1 Cert	31.0	3.30	1110	952	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.4	0.5	6780	134	333	41	44	71	2.67	104	23	1	19	0.99	14	58	3.72	1.45	1.72	0.14	0.131	< 10	7	< 10
GXR-4 Cert	4.00	0.600	6920	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.1	4.7	81	1010	< 2	19	757	559	3.35	< 10	1360	1	< 10	0.88	9	27	2.24	0.57	0.56	0.28	0.059	19	5	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.2	0.5	70	1000	< 2	24	96	122	6.82	222	850	1	< 10	0.16	13	87	6.65	0.87	0.42	0.14	0.033	< 10	22	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas							2270										6.17							
OREAS 13P Cert			2500				2280										7.58							
26748 Ong	< 0.2	< 0.5	48	715	< 2	82	30	43	3.68	< 10	10	< 1	< 10	4.07	26	233	5.13	0.02	3.11	0.11	0.015	< 10	13	< 10
26748 Dup	< 0.2	< 0.5	46	721	< 2	82	33	45	3.62	< 10	11	< 1	< 10	4.12	25	235	5.16	0.02	3.13	0.12	0.015	< 10	13	< 10
26660 Ong	0.5	< 0.5	1630	326	< 2	1760	6	29	5.67	< 10	24	< 1	< 10	3.22	54	163	3.85	0.04	3.63	0.37	0.003	< 10	3	< 10
26660 Dup	0.8	< 0.5	1670	318	< 2	1760	< 2	26	5.61	< 10	23	< 1	< 10	3.13	55	169	3.89	0.04	3.60	0.38	0.003	< 10	3	< 10
27370 Ong	0.7	< 0.5	1560	310	< 2	1660	4	26	5.55	< 10	24	< 1	< 10	3.03	51	154	3.74	0.04	3.40	0.37	0.003	< 10	3	< 10
27370 Dup	0.6	0.5	1700	322	< 2	1720	2	27	5.75	< 10	26	< 1	< 10	3.17	53	162	3.86	0.04	3.54	0.36	0.003	< 10	3	< 10
28690 Ong	0.5	< 0.5	1770	329	< 2	1760	4	30	5.62	< 10	24	< 1	< 10	3.25	55	165	3.92	0.04	3.61	0.38	0.003	< 10	4	< 10
28690 Dup	0.6	< 0.5	1730	324	< 2	1760	< 2	28	5.79	< 10	23	< 1	< 10	3.18	53	162	3.95	0.04	3.56	0.38	0.003	< 10	3	< 10
28754 Ong	10.4	6.9	6170	192	< 2	1870	149	288	4.48	< 10	13	< 1	< 10	3.28	115	207	8.04	0.04	1.31	0.54	0.012	< 10	8	< 10
28754 Dup	10.5	7.3	6170	196	< 2	1880	155	275	4.55	< 10	14	< 1	< 10	3.34	119	213	8.25	0.04	1.33	0.54	0.012	< 10	8	< 10
28647 Ong	0.6	< 0.5	396	287	< 2	354	15	24	4.45	< 10	13	< 1	< 10	3.75	30	164	2.55	0.04	1.63	0.25	0.020	< 10	4	< 10
28647 Dup	0.7	< 0.5	385	296	< 2	376	16	22	4.31	< 10	13	< 1	< 10	3.94	31	171	2.68	0.04	1.71	0.25	0.021	< 10	4	< 10
30144 Ong	4.4	2.2	2160	158	< 2	913	54	53	5.58	< 10	12	< 1	< 10	4.80	57	139	3.35	0.01	0.51	0.62	0.006	< 10	5	< 10
30144 Dup	4.3	2.2	2100	133	< 2	915	55	54	5.64	< 10	12	< 1	< 10	4.61	57	135	3.30	0.01	0.51	0.62	0.006	< 10	5	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	187		76	138	24	13	0.219
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	76		85	13	12	10	2.014
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	98		60	< 10	11	11	0.039
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	31		176	< 10	6	7	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
26748 Orig	20	0.05	107	< 10	4	1	0.052
26748 Dup	19	0.05	108	< 10	4	1	0.053
26660 Orig	74	0.02	36	< 10	1	1	0.526
26660 Dup	72	0.02	36	< 10	1	1	0.525
27370 Orig	71	0.02	35	< 10	1	1	0.499
27370 Dup	73	0.02	36	< 10	1	1	0.514
28690 Orig	75	0.02	37	< 10	1	1	0.527
28690 Dup	74	0.02	36	< 10	1	1	0.526
28754 Orig	88	0.05	46	< 10	1	2	3.749
28754 Dup	70	0.05	47	< 10	1	2	3.787
28647 Orig	54	0.05	36	< 10	2	1	0.366
28647 Dup	54	0.05	39	< 10	2	1	0.381
30144 Orig	88	0.02	22	< 10	1	1	1.298
30144 Dup	88	0.02	22	< 10	1	1	1.309
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 24-Jul-08

Invoice No.: A08-4398

Invoice Date: 12-Aug-08

Your Reference: DOSSIER #22867

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

59 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4398**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4398

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.01	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
28497	1.1	2.7	1190	241	3	373	7	173	0.60	<10	8	<1	<10	0.28	72	136	5.67	<0.01	0.46	0.01	0.020	<10	<1	<10	
28468	0.3	5.7	364	814	<2	42	10	1950	3.15	<10	16	<1	<10	0.71	22	168	8.06	0.09	2.46	0.02	0.033	<10	5	<10	
28460	<0.2	<0.5	18	399	5	10	3	138	2.55	<10	50	<1	<10	0.38	8	138	4.39	0.36	1.65	0.03	0.015	<10	4	<10	
28600	0.7	1.6	7950	284	<2	>10000	4	39	0.47	<10	7	<1	<10	0.39	455	31	30.2	0.10	0.16	0.09	0.046	<10	3	<10	
25208	6.2	3.2	2320	329	<2	297	37	191	4.30	<10	74	<1	<10	1.56	26	61	5.07	0.37	2.34	0.26	0.022	<10	4	<10	
25205	9.5	4.7	3530	454	<2	360	47	253	4.29	<10	32	<1	<10	1.67	45	64	5.72	0.27	2.44	0.24	0.015	<10	5	<10	
25311	1.3	1.4	563	476	<2	39	28	241	5.61	<10	216	<1	<10	2.20	14	67	5.63	0.78	3.07	0.30	0.025	<10	9	<10	
26312	1.7	1.6	336	309	<2	42	14	306	4.14	<10	88	<1	<10	1.41	9	99	3.16	0.30	2.03	0.24	0.027	<10	3	<10	
28511	0.2	0.5	284	310	<2	16	13	127	4.46	<10	103	<1	<10	2.66	15	77	4.36	0.49	1.63	0.35	0.028	<10	4	<10	
28512	0.4	0.7	603	254	3	29	14	152	4.89	<10	105	<1	<10	2.35	17	77	5.69	0.27	1.43	0.36	0.019	<10	3	<10	
28513	0.3	0.9	307	271	<2	25	14	163	4.78	<10	204	1	<10	2.39	9	89	4.05	0.88	1.89	0.29	0.024	<10	5	<10	
28514	1.1	0.6	686	294	5	50	9	177	3.73	<10	183	<1	<10	1.01	10	109	4.16	0.60	1.84	0.24	0.014	<10	4	<10	
28515	<0.2	<0.5	13	317	<2	9	3	131	3.22	<10	246	<1	<10	0.08	5	161	2.70	0.47	1.93	0.08	0.006	<10	3	<10	
28516	0.5	0.6	262	285	2	32	8	134	2.64	<10	139	<1	<10	0.34	7	114	3.20	0.64	1.97	0.14	0.008	<10	4	<10	
28517	0.5	0.5	626	277	<2	21	9	96	4.00	<10	43	<1	<10	1.86	18	102	4.97	2.00	1.32	0.32	0.020	<10	3	<10	
28518	3.6	2.7	2600	362	<2	997	20	280	4.42	<10	28	<1	<10	1.23	79	88	11.6	1.21	3.08	0.31	0.013	<10	12	<10	
28519	2.1	1.6	1870	206	<2	427	37	159	6.26	<10	29	<1	<10	3.13	46	54	6.89	0.53	2.38	0.55	0.010	<10	8	<10	
28520	0.5	<0.5	1340	339	<2	1380	7	32	5.22	<10	30	<1	<10	2.67	47	130	3.96	0.04	3.40	0.37	0.003	<10	3	<10	
28582	0.8	<0.5	772	193	2	85	5	19	5.48	<10	24	<1	<10	4.74	15	229	1.94	0.09	1.47	0.58	0.016	<10	4	<10	
28583	<0.2	<0.5	107	138	<2	46	5	14	6.13	<10	36	<1	<10	5.12	8	171	1.17	0.08	0.66	0.76	0.014	<10	4	<10	
28584	0.3	<0.5	179	183	3	40	2	28	2.59	<10	209	<1	<10	0.32	12	163	2.29	0.50	1.67	0.13	0.028	<10	6	<10	
28585	<0.2	<0.5	61	212	<2	34	<2	27	2.69	<10	96	<1	<10	0.47	13	141	2.21	0.36	1.85	0.14	0.059	<10	5	<10	
28586	1.5	0.6	940	190	<2	71	4	53	3.03	<10	351	<1	<10	0.67	28	169	4.33	1.17	2.72	0.23	0.025	<10	10	<10	
28587	2.7	1.3	1080	146	<2	182	6	47	3.45	<10	118	<1	<10	1.61	24	126	4.00	0.84	2.24	0.37	0.022	<10	7	<10	
28588	3.7	1.7	2330	234	3	142	5	52	3.55	<10	86	<1	<10	1.61	27	167	4.38	0.71	2.16	0.30	0.023	<10	7	<10	
28589	1.0	1.0	915	221	<2	140	<2	50	3.01	<10	88	<1	<10	0.38	33	168	5.03	0.63	2.76	0.14	0.020	<10	8	<10	
28590	0.8	<0.5	1330	345	<2	1400	7	32	5.38	<10	21	<1	<10	2.70	47	132	4.04	0.03	3.48	0.38	0.003	<10	3	<10	
28591	0.6	0.6	463	166	<2	129	6	40	4.15	<10	110	<1	<10	2.12	21	343	3.41	0.42	2.26	0.32	0.014	<10	6	<10	
29093	<0.2	<0.5	11	737	<2	7	<2	8	0.34	<10	9	<1	<10	0.06	<1	165	0.40	0.10	0.04	0.08	0.006	<10	<1	11	
29094	<0.2	<0.5	15	113	2	40	2	6	0.23	<10	8	<1	<10	0.04	2	134	0.35	0.10	0.02	0.06	0.006	<10	<1	<10	
29095	<0.2	<0.5	4	286	<2	5	6	5	0.31	<10	7	<1	<10	0.02	<1	146	0.22	0.16	0.01	0.06	0.004	<10	<1	14	
29096	<0.2	<0.5	5	94	<2	4	<2	7	0.19	<10	7	<1	<10	0.07	<1	92	0.13	0.10	<0.01	0.04	0.011	<10	<1	11	
29097	<0.2	<0.5	31	219	<2	4	<2	6	0.30	<10	9	<1	<10	0.04	<1	102	0.23	0.12	0.04	0.03	0.006	<10	<1	12	
29098	<0.2	<0.5	29	1050	9	36	4	108	2.34	<10	138	<1	<10	0.95	14	83	4.77	0.44	1.78	0.07	0.051	<10	8	<10	
29099	<0.2	<0.5	2	958	4	7	5	89	2.11	<10	146	<1	<10	0.34	7	141	3.70	0.82	1.16	0.06	0.016	<10	3	<10	
29100	0.8	1.6	8170	239	<2	>10000	<2	40	0.47	<10	8	<1	<10	0.39	456	20	30.6	0.11	0.16	0.06	0.047	<10	3	<10	
29101	<0.2	0.6	60	532	3	48	4	78	1.50	<10	193	1	<10	0.23	7	120	2.90	0.80	1.08	0.06	0.013	<10	2	<10	
29102	<0.2	<0.5	15	864	<2	21	5	97	1.62	<10	119	<1	<10	0.68	6	109	3.29	0.44	1.25	0.08	0.013	<10	4	15	
79123	<0.2	0.7	137	713	<2	34	3	240	2.61	<10	278	<1	<10	0.21	17	102	4.90	0.69	1.86	0.13	0.067	<10	8	<10	
30742	4.7	3.8	4490	426	<2	120	10	183	3.88	<10	26	<1	<10	2.18	27	120	7.2	8.57	1.16	3.01	0.24	0.042	<10	10	<10
30743	3.2	3.2	3460	254	<2	62	10	134	2.67	<10	36	<1	<10	1.48	22	102	5.20	0.18	1.77	0.33	0.047	<10	5	<10	
30744	4.7	3.3	6340	256	<2	116	7	174	2.25	<10	16	<1	<10	1.41	28	77	5.43	0.06	1.63	0.23	0.036	<10	5	<10	
30745	1.2	0.7	3190	278	<2	58	5	51	1.38	<10	10	<1	<10	0.98	22	89	4.29	0.02	0.97	0.19	0.038	<10	5	<10	
30746	<0.2	<0.5	371	469	<2	67	5	54	3.27	<10	15	<1	<10	2.90	24	107	5.71	0.03	1.72	0.27	0.037	<10	8	<10	
30747	<0.2	<0.5	176	474	<2	69	5	51	3.15	<10	14	<1	<10	2.89	26	104	6.14	0.03	1.69	0.34	0.037	<10	10	<10	
30748	0.8	1.0	934	554	<2	112	12	114	3.31	<10	15	<1	<10	3.19	27	111	5.85	0.03	1.81	0.31	0.037	<10	11	<10	
30749	7.6	3.9	8220	117	<2	6830	6	316	1.16	<10	20	<1	<10	0.46	340	18	31.6	0.12	0.60	0.08	0.031	<10	2	<10	
30750	0.8	1.7	7900	299	<2	>10000	4	44	0.44	<10	5	<1	<10	0.38	498	31	30.5	0.10	0.18	0.08	0.047	<10	4	<10	
30751	2.4	1.6	2560	126	<2	642	3	128	1.31	<10	41	<1	<10	0.46	75	76	6.81	0.17	1.05	0.11	0.060	<10	4	<10	
30752	1.7	1.8	1880	118	<2	74	<2	121	0.98	<10	30	<1	<10	0.43	18	72	3.53	0.10	0.77	0.14	0.032	<10	3	<10	
30753	0.7	1.0	717	179	<2	243	10	169	2.26	<10	61	<1	<10	1.45	30	96	5.53	0.21	1.10	0.20	0.039	<10	6	<10	
30754	27.7	14.6	>10000	223	<2	4160	6	1350	1.26	<10	19	<1	<10	0.44	270	48	26.4	0.07	0.62	0.06	0.026	<10	3	10	

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30755	5.4	5.9	4970	229	< 2	2560	9	521	2.66	< 10	16	< 1	< 10	1.20	175	93	16.9	0.49	1.76	0.28	0.033	< 10	7	< 10
30766	0.2	< 0.5	261	230	4	87	< 2	80	3.61	< 10	396	< 1	< 10	0.14	15	119	3.17	0.87	2.72	0.06	0.028	< 10	7	< 10
30757	< 0.2	< 0.5	36	186	< 2	47	< 2	39	2.77	< 10	102	< 1	< 10	0.10	6	133	2.08	0.53	2.55	0.06	0.015	< 10	3	< 10
30758	< 0.2	< 0.5	18	178	2	16	< 2	40	3.20	< 10	128	< 1	< 10	0.14	7	100	2.30	0.96	2.54	0.06	0.028	< 10	4	< 10
30759	1.3	< 0.5	1110	216	3	21	< 2	49	3.74	< 10	164	< 1	< 10	0.16	12	128	3.32	1.18	2.80	0.08	0.033	< 10	6	< 10
30760	< 0.2	< 0.5	12	175	< 2	4	7	8	0.07	< 10	147	< 1	< 10	9.13	< 1	65	0.12	0.02	5.24	0.03	0.005	< 10	< 1	< 10
30761	< 0.2	< 0.5	13	189	< 2	9	4	34	2.65	< 10	105	< 1	< 10	0.21	5	164	2.29	0.69	2.35	0.06	0.021	< 10	3	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28497	3	0.01	5	< 10	6	5	3.778
28498	5	0.13	36	< 10	14	10	0.844
28499	4	0.08	21	< 10	19	14	0.080
28500	16	0.11	54	< 10	15	16	10.23
28508	32	0.12	52	< 10	4	4	1.114
28509	28	0.10	46	< 10	7	4	1.943
28511	49	0.18	62	< 10	10	5	0.247
28512	53	0.09	27	< 10	5	6	0.223
28511	34	0.11	24	< 10	9	6	0.532
28512	41	0.12	40	< 10	4	12	0.709
28513	34	0.18	45	< 10	4	9	0.224
28514	21	0.12	32	< 10	3	7	0.383
28515	11	0.05	7	< 10	3	6	0.007
28516	13	0.07	17	< 10	3	5	0.200
28517	31	0.12	52	< 10	5	10	0.756
28518	20	0.19	101	< 10	8	4	3.539
28519	37	0.13	117	< 10	2	2	1.933
28520	67	0.03	41	< 10	< 1	1	0.441
28522	97	0.08	34	< 10	2	1	0.195
28563	123	0.04	26	< 10	2	< 1	0.057
28564	12	0.14	44	< 10	4	7	0.036
28565	13	0.15	39	< 10	7	10	0.020
28566	13	0.21	105	< 10	7	6	0.243
28587	30	0.17	40	< 10	7	8	0.517
28588	35	0.17	74	< 10	7	6	0.657
28589	14	0.14	61	< 10	4	6	0.632
28590	67	0.03	41	< 10	< 1	1	0.446
28591	62	0.10	48	< 10	3	3	0.311
29053	2	< 0.01	1	< 10	9	7	0.009
29094	< 1	< 0.01	< 1	< 10	3	2	0.100
29095	< 1	< 0.01	< 1	< 10	4	2	0.002
29098	< 1	< 0.01	< 1	< 10	4	1	0.003
29097	1	< 0.01	1	< 10	2	2	0.006
29098	11	0.24	60	< 10	20	19	0.084
29099	7	0.08	7	< 10	17	26	0.007
29100	16	0.11	55	< 10	15	16	9.821
29101	7	0.07	6	< 10	15	27	0.133
29102	13	0.10	7	< 10	21	31	0.041
29123	4	0.17	117	< 10	7	13	0.041
30742	22	0.07	153	< 10	3	2	0.596
30743	28	0.14	167	< 10	4	2	0.495
30744	17	0.13	190	< 10	6	3	0.890
30745	15	0.17	146	< 10	5	4	0.467
30746	64	0.17	190	< 10	7	2	0.120
30747	59	0.18	134	< 10	8	2	0.144
30748	49	0.18	134	< 10	7	2	0.361
30749	12	0.05	86	< 10	2	7	5.787
30750	14	0.12	96	< 10	15	16	10.28
30751	9	0.12	166	< 10	5	4	1.977
30752	9	0.16	146	< 10	5	4	0.374
30753	27	0.17	176	< 10	6	5	0.706
30754	6	0.04	66	< 10	2	7	5.383

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30755	21	0.13	92	< 10	7	6	4.632
30756	12	0.12	40	< 10	5	10	0.132
30757	17	0.08	7	< 10	5	15	0.044
30758	29	0.11	13	< 10	6	12	0.011
30759	26	0.15	26	< 10	5	10	0.123
30760	73	< 0.01	1	< 10	< 1	< 1	0.074
30761	27	0.09	6	< 10	6	11	0.099

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.4	3.2	1130	779	15	34	984	821	0.29	370	221	<1	1420	0.79	9	6	24.8	0.02	0.13	0.05	0.038	76	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	0.6	6310	139	325	40	43	54	2.45	99	30	1	13	0.94	15	54	3.47	1.37	1.62	0.12	0.123	<10	6	<10
GXR-4 Cert	4.00	0.860	6020	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.4	4.7	85	1020	<2	17	758	557	3.19	13	1270	1	<10	0.84	10	27	2.28	0.96	0.55	0.24	0.061	33	5	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	66	972	<2	24	94	117	6.22	250	821	<1	<10	0.16	14	83	5.46	0.87	0.40	0.11	0.034	<10	20	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2880			2490											5.68							
OREAS 13P Cert			2500			2280											7.58							
28515 Ong	< 0.2	< 0.5	13	316	< 2	9	3	129	3.15	< 10	245	< 1	< 10	0.08	5	152	2.67	0.47	1.91	0.08	0.006	< 10	3	< 10
28515 Dup	< 0.2	< 0.5	12	318	< 2	9	2	133	3.24	< 10	247	< 1	< 10	0.08	5	150	2.73	0.48	1.84	0.06	0.006	< 10	4	< 10
28560 Ong	0.7	< 0.5	1310	346	< 2	1400	8	32	5.35	< 10	22	< 1	< 10	2.71	47	132	4.01	0.04	3.45	0.38	0.003	< 10	3	< 10
28560 Dup	0.5	0.5	1340	345	< 2	1390	6	32	5.40	< 10	20	< 1	< 10	2.70	48	132	4.06	0.03	3.47	0.38	0.003	< 10	3	< 10
30742 Ong	4.8	3.7	4340	422	< 2	119	9	182	3.82	< 10	26	< 1	< 10	2.17	27	70	5.60	0.15	2.98	0.24	0.042	< 10	10	< 10
30742 Dup	4.7	3.8	4460	430	< 2	122	12	153	3.71	< 10	26	< 1	< 10	2.20	25	73	5.54	0.16	3.04	0.25	0.042	< 10	11	< 10
30755 Ong	0.2	< 0.5	265	231	4	81	< 2	82	3.50	< 10	391	< 1	< 10	0.14	15	120	3.22	0.88	2.75	0.09	0.028	< 10	7	< 10
30755 Dup	0.2	< 0.5	237	230	4	83	< 2	77	3.51	< 10	381	< 1	< 10	0.14	14	119	3.11	0.88	2.69	0.09	0.028	< 10	7	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	9	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	152		74	154	23	13	0.208
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	71		81	17	11	11	1.911
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	93		60	< 10	11	12	0.039
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	29		172	< 10	6	14	0.018
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
28515 Orig	11	0.05	7	< 10	3	6	0.008
28515 Dup	11	0.05	7	< 10	3	6	0.006
28660 Orig	67	0.03	41	< 10	< 1	1	0.450
28660 Dup	67	0.03	41	< 10	< 1	1	0.443
30742 Orig	22	0.07	149	< 10	3	2	0.595
30742 Dup	22	0.07	156	< 10	3	2	0.598
30755 Orig	12	0.12	41	< 10	5	10	0.139
30755 Dup	11	0.11	40	< 10	5	10	0.125
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 24-Jul-08
Invoice No.: A08-4409
Invoice Date: 13-Aug-08
Your Reference: DOSSIER 22868

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

60 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4409**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4409

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
30775	0.5	< 0.5	636	220	< 2	220	< 2	30	2.54	< 10	10	< 1	< 10	1.18	27	116	2.79	0.02	2.93	0.06	0.10	< 10	2	< 10
30776	< 0.2	< 0.5	184	140	< 2	126	3	17	5.66	< 10	16	< 1	< 10	4.36	16	194	1.70	0.02	1.48	0.63	0.007	< 10	3	< 10
30777	< 0.2	< 0.5	161	58	< 2	25	2	5	4.53	< 10	10	< 1	< 10	3.67	4	88	0.50	0.01	0.45	0.49	0.004	< 10	2	< 10
30778	< 0.2	< 0.5	49	51	< 2	20	2	9	0.78	< 10	30	< 1	< 10	0.30	5	161	0.78	0.07	0.66	0.09	0.019	< 10	1	< 10
30779	0.9	0.6	608	211	< 2	364	6	49	5.28	< 10	29	< 1	< 10	3.78	27	452	2.63	0.14	2.07	0.22	0.003	< 10	2	< 10
30780	< 0.2	0.8	8	152	< 2	7	3	172	0.07	< 10	101	< 1	< 10	7.74	< 1	39	0.10	0.21	4.85	0.02	0.002	< 10	< 1	< 10
30781	0.2	0.6	432	254	2	100	< 2	40	3.67	< 10	160	< 1	< 10	0.80	15	301	3.94	0.54	2.98	0.09	0.010	< 10	7	< 10
30782	< 0.2	< 0.5	181	301	< 2	27	< 2	37	2.45	< 10	102	< 1	< 10	0.25	10	139	3.63	0.46	2.67	0.04	0.019	< 10	6	< 10
30783	1.1	0.6	797	207	< 2	96	6	51	7.53	< 10	52	< 1	< 10	5.59	13	190	2.45	0.17	1.38	0.46	0.015	< 10	4	< 10
30784	1.9	0.9	622	54	< 2	33	6	24	0.87	< 10	12	< 1	< 10	0.79	5	196	0.62	0.02	0.24	0.06	0.002	< 10	1	< 10
30785	3.5	0.7	793	128	< 2	144	22	31	3.90	< 10	20	< 1	< 10	3.32	21	79	1.43	0.01	0.84	0.53	0.011	< 10	2	< 10
30786	1.4	< 0.5	1080	269	< 2	147	17	32	3.69	< 10	12	< 1	< 10	2.91	34	195	2.68	0.02	1.70	0.26	0.007	< 10	3	< 10
30787	2.5	0.8	1840	217	< 2	930	23	27	2.74	< 10	11	< 1	< 10	2.57	66	306	3.26	0.02	1.23	0.12	0.009	< 10	3	< 10
30788	0.2	< 0.5	109	188	< 2	47	9	15	3.02	< 10	10	< 1	< 10	2.89	7	126	1.25	0.01	1.00	0.07	0.005	< 10	3	< 10
30789	2.0	1.1	1200	218	< 2	743	41	44	4.71	< 10	13	< 1	< 10	3.56	54	215	3.61	0.02	1.14	0.52	0.10	< 10	4	< 10
30790	0.5	< 0.5	1430	314	< 2	1390	9	30	4.94	< 10	17	< 1	< 10	2.43	48	120	3.80	0.03	3.17	0.32	0.003	< 10	3	< 10
30791	4.4	1.2	2300	222	< 2	1260	38	37	5.05	< 10	11	< 1	< 10	3.74	71	203	4.90	0.01	1.19	0.50	0.007	< 10	4	< 10
30792	0.3	< 0.5	217	107	< 2	166	24	17	3.68	< 10	14	< 1	< 10	3.13	12	131	1.10	0.03	0.70	0.62	0.004	< 10	2	< 10
30793	0.3	< 0.5	203	226	< 2	101	27	21	4.85	< 10	12	< 1	< 10	3.98	13	171	1.65	0.02	1.08	0.59	0.010	< 10	4	< 10
30794	0.6	0.5	377	203	< 2	267	30	21	4.74	< 10	11	< 1	< 10	3.83	23	137	1.72	0.01	0.92	0.56	0.011	< 10	3	< 10
30861	< 0.2	< 0.5	6	295	3	11	2	32	1.33	< 10	32	< 1	< 10	0.40	3	94	1.95	0.17	0.94	0.02	0.014	< 10	1	< 10
30862	0.4	0.9	448	700	< 2	36	3	174	2.91	< 10	165	< 1	< 10	0.74	16	61	6.48	0.80	2.28	0.04	0.039	< 10	6	< 10
30863	0.2	< 0.5	522	117	< 2	68	< 2	15	2.28	< 10	19	< 1	< 10	1.97	15	90	1.38	0.04	0.78	0.31	0.051	< 10	3	< 10
30864	< 0.2	< 0.5	81	290	< 2	28	< 2	13	1.45	< 10	135	< 1	< 10	1.43	19	58	3.67	0.26	1.22	0.16	0.057	< 10	9	< 10
30865	< 0.2	< 0.5	122	73	< 2	57	< 2	8	4.00	< 10	43	< 1	< 10	3.08	9	140	0.96	0.11	0.79	0.56	0.016	< 10	2	< 10
30866	< 0.2	< 0.5	214	86	< 2	60	< 2	9	2.34	< 10	15	< 1	< 10	2.04	9	86	0.87	0.02	0.65	0.38	0.022	< 10	3	< 10
30867	< 0.2	< 0.5	459	109	< 2	18	< 2	10	1.58	< 10	11	< 1	< 10	1.42	7	49	0.88	0.01	0.52	0.20	0.014	< 10	3	< 10
30868	0.2	< 0.5	517	158	< 2	223	2	23	2.65	< 10	19	< 1	< 10	1.90	22	75	1.69	0.04	1.67	0.09	0.008	< 10	1	< 10
30869	< 0.2	< 0.5	53	55	< 2	86	2	10	6.51	< 10	23	< 1	< 10	4.89	9	191	0.96	0.02	0.69	0.60	0.006	< 10	2	< 10
30870	0.5	< 0.5	1360	309	< 2	1370	5	29	4.71	< 10	18	< 1	< 10	2.39	48	117	3.70	0.03	3.10	0.31	0.003	< 10	2	< 10
30631	8.0	2.3	> 10000	74	< 2	3630	77	113	2.65	< 10	11	< 1	< 10	1.82	362	124	15.9	0.09	0.60	0.28	0.012	< 10	2	< 10
30632	1.1	3.2	1000	49	< 2	878	152	72	4.75	< 10	12	< 1	< 10	3.94	53	78	2.94	0.04	0.38	0.32	0.008	< 10	2	< 10
30633	3.5	10.1	2390	85	< 2	930	160	142	4.60	< 10	16	< 1	< 10	3.82	53	150	3.12	0.08	0.71	0.26	0.011	< 10	3	< 10
30634	4.1	3.7	2930	77	< 2	2940	173	231	3.21	< 10	17	< 1	< 10	1.95	198	108	12.5	0.13	0.67	0.30	0.010	< 10	2	< 10
30635	4.7	4.3	5420	134	< 2	1840	148	409	2.57	< 10	20	< 1	< 10	0.78	59	147	5.77	0.46	1.83	0.22	0.015	< 10	3	< 10
30636	15.4	15.6	> 10000	161	< 2	3310	110	815	2.31	< 10	12	< 1	< 10	1.22	132	80	16.4	0.14	1.22	0.14	0.021	< 10	3	< 10
30637	25.4	13.8	> 10000	574	< 2	676	309	890	3.18	< 10	24	< 1	< 10	2.78	38	79	8.97	0.11	2.63	0.16	0.028	< 10	7	< 10
30638	13.5	12.5	5290	812	< 2	991	764	902	2.73	< 10	39	< 1	< 10	2.04	47	111	8.85	0.24	2.75	0.09	0.019	< 10	9	< 10
30639	16.2	9.8	> 10000	428	< 2	4190	144	614	2.60	< 10	11	< 1	< 10	1.27	204	146	21.8	0.19	1.70	0.11	0.016	< 10	3	< 10
30640	0.4	0.8	1380	308	< 2	1370	10	32	4.81	< 10	17	< 1	< 10	2.38	48	117	3.72	0.03	3.11	0.30	0.003	< 10	2	< 10
30686	0.6	< 0.5	866	149	< 2	92	8	29	3.75	< 10	13	< 1	< 10	3.37	16	64	1.57	0.02	0.67	0.39	0.031	< 10	4	< 10
30687	0.2	< 0.5	196	85	< 2	56	2	13	3.16	< 10	13	< 1	< 10	2.74	7	88	0.90	0.01	0.62	0.39	0.010	< 10	2	< 10
30688	< 0.2	< 0.5	19	58	< 2	40	2	7	4.81	< 10	67	< 1	< 10	3.88	6	124	0.73	0.11	0.88	0.38	0.009	< 10	2	< 10
30689	< 0.2	< 0.5	36	78	< 2	32	2	7	4.31	< 10	8	< 1	< 10	3.75	6	127	0.70	0.01	0.61	0.29	0.013	< 10	2	< 10
30690	0.5	0.5	1280	312	< 2	1350	8	31	4.84	< 10	17	< 1	< 10	2.40	48	118	3.76	0.03	3.10	0.30	0.003	< 10	2	< 10
30691	< 0.2	< 0.5	26	139	< 2	57	< 2	18	5.68	< 10	101	< 1	< 10	4.48	12	119	1.46	0.20	1.04	0.74	0.014	< 10	3	< 10
30692	< 0.2	< 0.5	7	189	< 2	69	< 2	22	4.93	< 10	108	< 1	< 10	3.63	12	166	2.06	0.17	1.60	0.60	0.010	< 10	3	< 10
30903	< 0.2	< 0.5	163	120	< 2	93	< 2	18	5.01	< 10	146	< 1	< 10	3.44	19	185	1.95	0.48	1.93	0.44	0.012	< 10	3	< 10
30894	< 0.2	< 0.5	73	151	< 2	251	< 2	26	2.22	< 10	23	< 1	< 10	1.05	24	57	2.22	0.08	2.74	0.10	0.008	< 10	2	< 10
30695	< 0.2	< 0.5	218	138	< 2	260	< 2	28	2.67	< 10	14	< 1	< 10	1.02	34	60	2.42	0.03	3.03	0.68	0.008	< 10	1	< 10
51025	1.5	2.7	1720	138	< 2	1240	104	124	2.34	< 10	27	< 1	< 10	1.37	116	67	7.52	0.16	0.91	0.30	0.039	< 10	2	< 10
51026	1.0	2.9	626	226	< 2	227	33	197	2.43	< 10	91	< 1	< 10	0.52	27	69	6.31							

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
51027	2.4	2.3	1240	120	< 2	267	22	93	1.67	< 10	76	< 1	< 10	1.17	52	66	4.42	0.26	0.74	0.27	0.135	< 10	4	< 10
51028	1.8	2.8	909	120	< 2	187	33	105	2.83	< 10	105	< 1	< 10	1.77	22	66	3.97	0.28	0.78	0.44	0.126	< 10	3	< 10
51020	0.4	3.0	592	218	< 2	328	68	307	2.98	< 10	93	< 1	< 10	1.32	26	71	8.31	0.35	1.35	0.20	0.100	< 10	5	< 10
51030	< 0.2	< 0.5	22	172	< 2	14	8	17	0.08	< 10	100	< 1	< 10	9.95	1	18	0.26	0.01	5.27	0.02	0.014	< 10	< 1	< 10
51031	1.1	2.0	891	211	< 2	431	74	338	2.34	< 10	64	1	< 10	0.45	40	82	6.68	0.78	2.26	0.12	0.058	< 10	6	< 10
51032	7.4	6.5	3830	829	< 2	1290	364	856	3.45	< 10	19	< 1	10	0.49	83	60	11.4	0.59	3.62	0.08	0.042	< 10	10	15
51033	10.4	11.3	8020	245	< 2	8220	148	1160	1.38	< 10	15	< 1	< 10	0.36	161	127	33.0	0.07	0.70	0.09	0.013	10	2	< 10
51034	11.8	8.8	8680	183	< 2	9030	130	733	1.15	< 10	11	< 1	< 10	0.23	190	73	37.9	0.07	0.65	0.06	0.009	13	2	11

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30775	22	0.03	19	< 10	1	1	0.094
30776	99	0.02	22	< 10	1	1	0.103
30777	75	0.01	9	< 10	< 1	< 1	0.048
30778	7	0.05	10	< 10	5	5	0.050
30779	65	0.06	36	< 10	1	1	0.330
30780	55	< 0.01	2	< 10	< 1	< 1	0.075
30781	50	0.06	39	< 10	4	2	0.137
30782	6	0.07	33	< 10	7	3	0.094
30783	96	0.04	26	< 10	3	1	0.345
30784	13	0.01	6	< 10	< 1	< 1	0.136
30785	64	0.02	18	< 10	1	1	0.433
30785	38	0.04	30	< 10	1	1	0.504
30787	45	0.06	37	< 10	1	1	1.314
30788	45	0.07	29	10	2	1	0.097
30789	71	0.03	31	< 10	1	1	1.489
30790	80	0.02	39	< 10	< 1	1	0.463
30791	70	0.03	31	< 10	1	1	2.095
30792	61	0.02	16	< 10	1	< 1	0.191
30793	67	0.04	31	< 10	1	1	0.135
30794	69	0.02	24	< 10	1	1	0.397
30861	3	0.02	2	< 10	16	9	0.011
30862	6	0.16	66	< 10	6	5	0.127
30863	34	0.07	26	< 10	2	1	0.170
30864	5	0.14	116	< 10	9	6	0.101
30865	65	0.04	20	< 10	1	1	0.054
30866	42	0.04	20	< 10	1	1	0.090
30867	23	0.03	20	< 10	1	1	0.070
30868	71	0.03	12	< 10	1	1	0.090
30869	129	0.02	15	< 10	1	< 1	0.074
30870	58	0.02	36	< 10	< 1	1	0.450
30631	40	0.03	26	< 10	1	4	7.670
30632	77	0.02	13	< 10	1	1	1.580
30633	56	0.04	22	< 10	1	1	1.341
30634	27	0.03	33	< 10	1	3	5.768
30635	13	0.07	84	< 10	1	3	4.086
30636	14	0.04	80	< 10	1	4	6.801
30637	15	0.03	78	< 10	2	2	3.162
30638	10	0.05	99	< 10	2	2	2.236
30639	12	0.04	113	< 10	2	4	7.572
30640	58	0.02	36	< 10	< 1	1	0.460
30685	59	0.07	34	< 10	2	1	0.337
30687	46	0.06	18	< 10	1	1	0.116
30688	68	0.04	18	< 10	1	< 1	0.035
30689	59	0.03	15	< 10	1	1	0.037
30690	58	0.02	38	< 10	< 1	1	0.459
30691	117	0.05	29	< 10	1	1	0.060
30692	80	0.07	49	< 10	1	1	0.028
30693	93	0.08	41	< 10	2	1	0.050
30694	12	0.03	16	< 10	1	1	0.030
30695	13	0.02	14	< 10	1	1	0.061
51025	18	0.06	56	< 10	5	2	3.133
51026	5	0.16	114	< 10	9	4	0.723

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
51027	15	0.11	121	< 10	11	3	1.148
51028	25	0.10	116	< 10	12	3	0.707
51020	22	0.13	110	< 10	9	3	0.975
51030	112	0.01	4	< 10	1	< 1	0.126
51031	9	0.15	108	< 10	5	3	1.179
51032	21	0.13	93	< 10	7	3	3.363
51033	9	0.03	100	10	1	7	6.158
51034	13	0.02	63	10	1	7	5.808

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.7	3.2	1160	795	15	36	989	538	0.29	377	228	1	1480	0.81	6	7	25.0	0.02	0.13	0.05	0.038	76	1	26
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.2	0.6	6360	133	330	41	42	56	2.42	103	29	1	19	0.94	15	56	3.44	1.37	1.62	0.11	0.123	< 10	6	< 10
GXR-4 Cert	4.00	0.660	6020	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.3	4.7	87	1010	< 2	18	759	559	3.21	14	1280	1	< 10	0.84	10	26	2.25	0.57	0.54	0.24	0.060	34	5	< 10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	70	965	< 2	25	94	118	6.40	246	804	1	< 10	0.15	14	83	6.45	0.87	0.40	0.11	0.033	< 10	20	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2940			2450											6.37							
OREAS 13P Cert			2500			2280											7.58							
30787 Ong	2.5	0.8	1910	220	< 2	968	22	29	2.77	< 10	11	< 1	< 10	2.61	66	311	3.32	0.02	1.24	0.12	0.010	< 10	3	< 10
30787 Dup	2.5	0.7	1780	213	< 2	892	23	25	2.72	< 10	10	< 1	< 10	2.54	55	301	3.20	0.02	1.21	0.12	0.009	< 10	3	< 10
30667 Ong	0.2	< 0.5	466	108	< 2	17	< 2	10	1.66	< 10	11	< 1	< 10	1.41	7	49	0.86	0.01	0.62	0.20	0.014	< 10	3	< 10
30667 Dup	< 0.2	< 0.5	461	109	< 2	16	< 2	9	1.65	< 10	11	< 1	< 10	1.43	6	49	0.86	0.01	0.62	0.21	0.014	< 10	3	< 10
30640 Ong	0.5	0.7	1370	306	< 2	1370	9	32	4.55	< 10	17	< 1	< 10	2.36	48	116	3.70	0.03	3.05	0.30	0.003	< 10	2	< 10
30640 Dup	0.4	0.6	1350	309	< 2	1360	10	31	4.64	< 10	17	< 1	< 10	2.39	48	116	3.74	0.03	3.13	0.30	0.003	< 10	2	< 10
51028 Ong	1.8	2.6	974	122	< 2	182	34	106	2.81	< 10	106	< 1	< 10	1.81	23	55	4.06	0.29	0.60	0.46	0.129	< 10	3	< 10
51028 Dup	1.7	2.7	883	118	< 2	182	31	105	2.75	< 10	103	< 1	< 10	1.73	21	54	3.89	0.27	0.76	0.42	0.123	< 10	3	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	< 1	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	151		75	158	23	13	0.213
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	59		81	16	11	10	1.970
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	52		49	< 10	11	12	0.041
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	28		170	< 10	6	11	0.018
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
30787 Orig	46	0.06	37	< 10	1	1	1.317
30787 Dup	44	0.05	36	< 10	1	1	1.311
30667 Orig	23	0.03	19	< 10	1	1	0.072
30667 Dup	23	0.03	20	< 10	1	1	0.068
30640 Orig	57	0.02	38	< 10	< 1	1	0.464
30640 Dup	59	0.02	36	< 10	< 1	1	0.456
51028 Orig	25	0.10	117	< 10	12	3	0.723
51028 Dup	24	0.10	114	< 10	11	3	0.692
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 24-Jul-08
Invoice No.: A08-4410
Invoice Date: 14-Aug-08
Your Reference: DOSSIER 22869

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

84 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4410**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4410

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
24275	36.0	51.8	> 10000	524	< 2	3850	138	1320	2.31	10	26	< 1	< 10	0.41	127	39	24.0	0.12	1.82	0.04	0.033	< 10	5	30
24276	40.0	55.7	> 10000	578	< 2	1860	244	1640	2.00	< 10	13	< 1	< 10	0.45	120	60	16.9	0.03	1.75	0.02	0.031	< 10	5	18
24277	34.1	32.4	> 10000	575	< 2	2350	297	954	2.95	< 10	38	< 1	< 10	0.84	103	34	15.9	0.24	2.11	0.16	0.051	< 10	4	20
24278	23.6	22.8	> 10000	564	< 2	810	994	807	3.66	< 10	37	< 1	36	1.20	48	48	11.2	0.47	2.88	0.24	0.045	< 10	7	28
24279	26.0	53.4	> 10000	519	< 2	3600	391	1480	2.03	< 10	21	< 1	< 10	0.47	229	53	23.0	0.10	1.66	0.07	0.027	< 10	3	22
24280	0.7	1.5	487	157	< 2	84	20	47	0.08	< 10	90	< 1	< 10	7.16	6	36	0.58	0.01	3.75	0.03	0.008	< 10	< 1	< 10
24281	9.5	25.5	6470	191	< 2	9000	121	640	0.76	< 10	16	< 1	< 10	0.24	460	58	38.0	0.06	0.46	0.02	0.010	10	< 1	19
24282	10.7	14.9	7010	199	< 2	9710	86	370	0.87	< 10	10	< 1	< 10	0.27	239	33	38.9	0.02	0.46	0.03	0.014	< 10	1	< 10
24283	7.7	17.8	3690	286	< 2	4960	204	338	1.46	< 10	9	< 1	< 10	0.29	131	47	24.0	0.01	1.29	0.04	0.033	< 10	4	26
24284	93.9	9.3	5060	347	< 2	184	1100	124	1.66	< 10	18	< 1	133	0.48	24	66	6.23	0.03	1.41	0.06	0.068	< 10	4	35
24285	5.8	2.8	870	285	< 2	298	189	79	1.30	< 10	25	< 1	< 10	0.88	29	84	5.06	0.05	1.23	0.05	0.088	< 10	3	25
24286	1.6	1.1	208	172	< 2	63	112	39	1.04	< 10	42	< 1	< 10	0.60	14	74	3.81	0.11	1.01	0.06	0.092	< 10	3	25
24287	2.1	1.2	144	148	< 2	49	89	34	0.84	< 10	33	< 1	< 10	0.58	13	85	4.23	0.08	0.84	0.07	0.118	< 10	3	22
24288	9.9	3.4	620	232	< 2	223	263	65	1.53	< 10	65	< 1	21	0.48	23	88	6.71	0.20	1.34	0.08	0.074	< 10	5	27
24289	28.3	3.2	2310	467	< 2	82	406	83	1.85	< 10	34	< 1	69	0.99	22	79	6.02	0.10	1.85	0.06	0.110	< 10	6	23
24290	0.6	0.7	1330	322	< 2	1390	7	32	4.79	< 10	19	< 1	< 10	2.47	47	122	3.93	0.03	3.29	0.33	0.004	< 10	3	< 10
24291	4.5	2.2	949	407	< 2	35	45	71	2.25	< 10	101	< 1	< 10	0.38	11	104	3.91	0.25	2.01	0.06	0.041	< 10	5	17
24292	6.0	2.2	1010	763	< 2	16	64	117	2.26	< 10	43	< 1	< 10	0.77	14	46	8.32	0.20	2.37	0.04	0.047	< 10	6	< 10
24293	1.9	2.0	852	726	< 2	226	45	128	3.08	< 10	97	< 1	< 10	0.58	30	72	7.27	0.46	2.89	0.05	0.072	< 10	11	< 10
24294	0.3	< 0.5	15	569	< 2	9	6	91	3.61	< 10	100	< 1	< 10	0.60	14	56	5.06	0.49	4.18	0.07	0.079	< 10	9	< 10
24295	< 0.2	< 0.5	46	845	< 2	9	4	86	3.73	< 10	185	< 1	< 10	0.78	15	60	5.03	0.62	3.19	0.11	0.085	< 10	10	< 10
24296	< 0.2	0.5	51	802	< 2	12	3	100	3.43	< 10	149	< 1	< 10	0.63	16	63	5.28	0.64	3.03	0.10	0.085	< 10	10	< 10
24297	0.5	0.6	41	856	< 2	13	2	98	3.66	< 10	120	< 1	< 10	0.63	17	60	5.89	0.56	3.69	0.06	0.086	< 10	9	< 10
24298	0.4	0.7	161	893	< 2	7	126	2.88	< 10	81	< 1	< 10	0.71	13	96	4.70	0.37	2.72	0.04	0.051	< 10	6	< 10	
24299	12.4	16.7	7150	457	< 2	422	401	1230	1.95	< 10	14	< 1	13	1.29	47	70	6.64	0.03	1.58	0.07	0.019	< 10	8	< 10
24300	13.6	22.0	9090	508	< 2	1330	193	1330	1.88	< 10	20	< 1	< 10	1.11	73	66	11.3	0.06	1.22	0.07	0.029	< 10	6	29
24301	12.3	25.8	9670	151	< 2	8040	88	1340	0.81	< 10	11	< 1	< 10	0.19	480	28	46.0	0.03	0.58	0.02	0.013	< 10	1	16
24302	21.1	37.7	> 10000	363	< 2	1020	437	1630	2.15	< 10	13	< 1	< 10	0.74	274	86	11.6	0.19	1.38	0.11	0.040	< 10	3	32
24303	0.7	0.8	1330	318	< 2	1380	12	35	4.67	< 10	18	< 1	< 10	2.44	47	122	3.92	0.03	3.25	0.32	0.003	< 10	3	< 10
24304	25.3	23.3	> 10000	590	< 2	1860	495	1630	2.79	< 10	9	< 1	< 10	0.64	221	54	17.4	0.19	2.34	0.12	0.024	< 10	6	25
24305	3.6	5.3	2440	308	< 2	306	766	485	2.61	< 10	36	< 1	< 10	0.89	26	90	5.07	0.36	1.85	0.17	0.023	< 10	6	19
24306	20.9	11.2	> 10000	295	< 2	3500	196	870	2.44	< 10	19	< 1	< 10	0.54	180	49	22.3	0.50	1.91	0.12	0.020	< 10	5	18
24307	24.974	6.4	> 10000	348	< 2	4240	272	502	2.11	< 10	7	< 1	< 10	0.54	182	48	25.5	0.15	1.35	0.06	0.022	< 10	5	12
24308	8.6	2.6	6620	110	< 2	7900	111	146	0.82	< 10	20	< 1	< 10	0.34	307	42	35.0	0.05	0.41	0.02	0.009	11	1	10
24309	54.7	20.8	6690	343	< 2	254	2820	509	2.43	< 10	71	< 1	148	1.09	25	85	5.79	0.20	1.87	0.17	0.045	10	5	32
24310	> 100	162	> 10000	119	< 2	3670	83	8710	0.65	< 10	12	< 1	< 10	0.35	278	15	31.0	0.02	2.25	0.05	0.053	< 10	< 1	41
24311	23.4	19.4	7330	257	< 2	294	163	1250	1.70	< 10	23	< 1	< 10	0.70	31	79	6.94	0.10	1.03	0.07	0.092	< 10	4	32
24312	12.6	3.9	5360	402	< 2	174	118	194	2.58	< 10	31	< 1	< 10	1.30	24	84	6.36	0.23	2.29	0.10	0.106	< 10	9	36
24313	0.6	< 0.5	172	197	< 2	10	12	22	0.08	< 10	140	< 1	< 10	10.3	1	27	0.23	0.01	6.16	0.03	0.004	< 10	< 1	< 10
24314	0.3	< 0.5	176	310	< 2	121	14	59	2.19	< 10	24	< 1	< 10	0.03	22	128	2.43	0.08	1.74	0.06	0.012	< 10	4	< 10
24315	< 0.2	< 0.5	169	302	< 2	290	7	46	2.45	< 10	29	< 1	< 10	1.90	31	166	3.17	0.13	2.42	0.04	0.011	< 10	3	< 10
24316	< 0.4	< 0.5	216	316	< 2	177	11	45	2.60	< 10	45	< 1	< 10	2.00	30	208	3.23	0.21	2.36	0.06	0.012	< 10	4	< 10
24317	< 0.2	< 0.5	61	304	< 2	146	8	40	2.87	< 10	31	< 1	< 10	2.02	26	167	3.34	0.18	2.75	0.04	0.012	< 10	3	< 10
24318	4.1	2.1	2350	511	< 2	136	21	98	2.93	< 10	59	< 1	< 10	2.13	32	162	6.06	0.31	2.67	0.04	0.055	< 10	8	< 10
24319	< 0.2	< 0.5	194	128	< 2	46	< 2	10	3.62	< 10	13	< 1	< 10	2.97	17	96	1.13	0.02	0.51	0.39	0.005	< 10	3	< 10
24320	< 0.2	< 0.5	51	292	< 2	45	< 2	14	2.46	< 10	10	< 2	< 10	2.30	10	153	1.70	0.02	1.42	0.06	0.003	< 10	4	< 10
24321	< 0.2	< 0.5	133	507	< 2	35	< 2	32	1.65	< 10	11	< 1	< 10	1.81	23	70	3.97	0.05	1.47	0.14	0.049	< 10	9	< 10
24322	< 0.2	< 0.5	139	448	< 2	34	< 2	28	2.41	< 10	15	< 1	< 10	2.35	25	88	3.77	0.06	1.25	0.27	0.049	< 10	9	< 10
24323	< 0.2	< 0.5	80	173	< 2	43	3	14	3.13	< 12	12	< 1	< 10	2.68	12	92	1.56	0.02	0.83	0.50	0.017	< 10	6	< 10
24324	< 0.2	< 0.5	16	115	< 2	36	< 2	9	3.40	< 10	20	< 1	< 10	2.54	8	114	1.30	0.04	0.97	0.43	0.014	< 10	2	< 10
24325	< 0.2	< 0.5	149	99	< 2	169	< 2	9	5.25	< 10	36	< 1	< 10	4.03	12	160	1.38	0.10	0.53	0.63	0.017	< 10	3	< 10
24326	< 0.2	< 0.5	36	92	< 2	36	< 2	8	4.78	< 10	21	< 1	< 10	3.74	8	173	1.06	0.06	0.87					

Activation Laboratories Ltd. Report: A08-4410

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	<10	1	1	<10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
25000	0.8	1.5	8210	223	<2	> 10000	3	37	0.44	<10	18	<1	<10	0.35	449	29	30.6	0.10	0.15	0.06	0.046	<10	3	<10
26601	<0.2	<0.5	81	78	<2	26	<2	6	4.71	<10	12	<1	<10	3.80	6	97	0.66	0.02	0.64	0.57	0.017	<10	2	<10
26493	2.2	1.5	1850	88	<2	2310	11	43	2.52	<10	23	<1	<10	1.48	139	77	9.21	0.08	0.87	0.38	0.007	<10	5	<10
26494	1.3	1.6	1060	156	<2	1700	8	78	2.60	<10	28	<1	<10	0.97	58	117	7.69	0.11	1.73	0.26	0.007	<10	3	<10
26495	1.0	1.4	606	243	<2	2	<2	220	3.65	<10	75	<1	<10	0.20	47	49	5.96	0.36	3.92	0.07	0.006	<10	7	<10
26496	1.8	2.6	996	172	<2	512	<2	180	2.68	<10	41	<1	<10	0.17	55	79	5.35	0.17	2.51	0.06	0.010	<10	6	<10
26497	1.6	2.6	1150	262	<2	652	<2	248	3.63	<10	50	<1	<10	0.17	52	164	7.56	0.67	4.45	0.07	0.002	<10	9	<10
26498	0.8	0.7	583	102	<2	664	<2	93	2.88	<10	62	<1	<10	0.38	59	216	7.61	0.59	2.99	0.10	0.006	<10	8	<10
26499	1.1	0.9	724	52	<2	764	4	37	1.66	<10	62	<1	<10	0.85	46	167	5.42	0.18	0.76	0.32	0.006	<10	3	<10
26500	0.8	1.7	8320	216	<2	> 10000	4	38	0.45	<10	21	<1	<10	0.35	461	30	31.0	0.10	0.16	0.09	0.047	<10	3	<10
26501	1.0	0.7	871	53	<2	807	4	25	1.54	<10	52	<1	<10	0.74	74	158	4.88	0.14	0.59	0.30	0.005	<10	2	<10
26502	0.4	<0.5	239	74	<2	202	<2	29	2.16	<10	69	<1	<10	0.56	24	168	4.10	0.18	1.36	0.20	0.008	<10	3	<10
26567	<0.2	<0.5	147	45	<2	36	<2	31	2.37	<10	22	<1	<10	2.67	22	64	3.95	0.05	1.14	0.34	0.052	<10	11	<10
26568	<0.2	<0.5	171	462	<2	37	3	32	2.51	<10	27	<1	<10	2.66	24	70	4.24	0.04	1.24	0.31	0.052	<10	11	<10
26569	<0.2	<0.5	167	473	<2	34	2	35	1.66	<10	21	<1	<10	2.20	25	70	4.36	0.06	1.32	0.22	0.055	<10	12	<10
26670	0.5	<0.5	1330	312	<2	1340	9	30	4.76	<10	18	<1	<10	2.39	44	118	3.70	0.03	3.12	0.32	0.004	<10	3	<10
26571	<0.2	<0.5	113	422	<2	37	2	30	1.96	<10	19	<1	<10	2.32	21	70	3.84	0.05	1.24	0.25	0.050	<10	11	<10
26572	<0.2	<0.5	191	444	<2	36	<2	32	2.22	<10	43	<1	<10	2.47	24	66	4.27	0.08	1.23	0.36	0.052	<10	12	<10
26573	<0.2	<0.5	239	407	<2	40	<2	30	2.40	<10	80	<1	<10	2.29	28	88	4.41	0.13	1.37	0.27	0.049	<10	10	<10
26574	<0.2	<0.5	145	210	<2	72	3	23	4.65	<10	147	<1	<10	3.34	19	271	2.88	0.29	1.57	0.57	0.024	<10	6	<10
26575	<0.2	<0.5	146	9	<2	51	7	13	6.45	<10	46	<1	<10	4.81	7	191	1.05	0.09	0.90	0.82	0.005	<10	3	<10
26576	<0.2	<0.5	41	112	<2	37	3	9	4.36	<10	17	<1	<10	3.38	6	175	0.93	0.04	0.75	0.61	0.003	<10	3	<10
26587	<0.2	<0.5	138	217	2	58	35	44	3.68	<10	12	<1	<10	3.04	16	110	1.66	0.01	0.91	0.43	0.021	<10	6	<10
26588	<0.2	<0.5	117	206	<2	68	13	25	2.90	<10	12	<1	<10	2.59	14	106	1.47	0.01	0.88	0.44	0.009	<10	6	<10
26589	<0.2	<0.5	74	443	<2	70	<2	24	3.55	<10	11	<1	<10	3.04	21	150	3.22	<0.01	1.95	0.23	0.015	<10	8	<10
26660 - NS																								
26591	<0.2	<0.5	68	177	<2	48	8	18	4.91	<10	13	<1	<10	3.89	11	100	1.36	0.01	0.83	0.61	0.010	<10	4	<10
26592	<0.2	<0.5	113	194	<2	145	14	20	6.18	<10	12	<1	<10	4.66	15	205	1.90	0.03	1.28	0.53	0.006	<10	3	<10
26593	<0.2	<0.5	122	325	<2	177	13	31	5.67	<10	13	<1	<10	3.96	23	268	3.21	0.05	2.27	0.43	0.004	<10	4	<10
26594	0.3	<0.5	173	592	<2	191	12	43	4.48	<10	8	<1	<10	3.91	30	516	5.01	0.01	3.34	0.12	0.009	<10	5	<10
26595	<0.2	<0.5	191	190	<2	96	10	16	4.83	117	12	<1	<10	3.70	16	166	1.74	0.01	1.25	0.58	0.013	<10	4	<10
26596	<0.2	<0.5	183	126	<2	87	13	13	6.49	<10	13	<1	<10	6.02	11	117	1.21	0.02	0.85	0.69	0.005	<10	3	<10

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24275	12	0.10	65	< 10	6	5	3.121
24276	10	0.06	60	< 10	4	4	3.876
24277	28	0.08	75	< 10	7	4	3.315
24278	44	0.13	80	< 10	9	3	2.533
24279	13	0.07	74	< 10	5	5	6.040
24280	80	< 0.01	2	< 10	< 1	< 1	0.348
24281	6	0.03	70	< 10	1	6	5.411
24282	6	0.02	40	< 10	1	8	4.740
24283	8	0.09	115	< 10	6	5	5.160
24284	9	0.12	133	< 10	10	2	0.909
24285	14	0.11	125	< 10	10	2	0.801
24286	9	0.10	144	< 10	10	2	0.143
24287	11	0.09	153	< 10	10	2	0.096
24288	14	0.10	159	< 10	7	2	0.516
24289	10	0.10	135	< 10	10	2	0.417
24290	63	0.02	40	< 10	< 1	1	0.443
24291	9	0.09	53	< 10	13	6	0.155
24292	9	0.13	34	< 10	12	7	2.087
24293	12	0.15	111	< 10	9	5	0.871
24294	18	0.13	63	< 10	11	4	0.022
24295	27	0.16	75	< 10	13	6	0.229
24296	18	0.18	71	< 10	14	7	0.374
24297	20	0.16	75	< 10	17	5	0.186
24298	8	0.15	42	< 10	22	13	0.214
24299	13	0.05	55	< 10	2	3	1.936
24300	16	0.09	66	< 10	3	4	4.446
24301	4	0.03	42	< 10	< 1	8	6.189
24302	11	0.06	30	< 10	7	5	5.618
24303	61	0.02	39	< 10	< 1	1	0.459
24304	11	0.11	94	< 10	5	5	6.723
24305	15	0.13	42	< 10	9	7	1.094
24306	18	0.09	66	< 10	5	5	3.874
24307	11	0.06	61	< 10	5	6	7.847
24308	6	0.02	31	< 10	3	8	5.553
24309	12	0.12	51	< 10	12	4	1.304
24310	7	0.02	34	< 10	2	7	7.003
24311	9	0.11	97	< 10	9	2	1.343
24312	13	0.18	109	< 10	12	2	0.827
24313	67	0.01	3	< 10	1	< 1	0.109
24314	15	0.09	50	< 10	2	< 1	0.150
24315	17	0.14	62	< 10	1	1	0.154
24316	16	0.14	63	< 10	1	1	0.152
24317	18	0.16	71	< 10	1	1	0.061
24318	12	0.16	101	< 10	6	2	0.396
24319	59	0.02	16	< 10	< 1	< 1	0.139
24320	9	0.02	26	< 10	< 1	< 1	0.034
24321	11	0.16	110	< 10	9	2	0.191
24322	25	0.17	96	< 10	9	2	0.273
24323	39	0.05	42	< 10	2	< 1	0.112
24324	50	0.04	20	< 10	1	< 1	0.035
24325	72	0.06	25	< 10	1	< 1	0.106
24326	63	0.05	21	< 10	< 1	< 1	0.037

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26500	15	0.08	52	< 10	14	14	6.755
26501	64	0.05	14	< 10	1	1	0.042
26493	38	0.04	50	< 10	< 1	3	4.943
26494	29	0.05	92	< 10	1	2	3.423
26495	18	0.07	135	< 10	< 1	1	1.095
26496	14	0.05	118	< 10	< 1	2	1.446
26497	20	0.10	155	< 10	< 1	2	1.954
26499	9	0.14	286	< 10	< 1	2	1.449
26499	28	0.07	205	< 10	< 1	1	1.504
26500	16	0.08	62	< 10	14	14	6.872
26501	28	0.07	152	< 10	< 1	1	1.770
26502	21	0.08	190	< 10	< 1	1	0.411
26567	45	0.14	113	< 10	10	2	0.274
26568	50	0.15	115	< 10	10	2	0.315
26569	22	0.16	122	< 10	10	3	0.265
26570	60	0.02	38	< 10	< 1	1	0.433
26571	39	0.15	110	< 10	9	2	0.199
26572	41	0.15	120	< 10	10	2	0.335
26573	47	0.17	111	< 10	9	2	0.347
26574	84	0.13	70	< 10	4	1	0.222
26575	107	0.03	18	< 10	< 1	< 1	0.054
26576	79	0.03	19	< 10	< 1	< 1	0.029
26587	44	0.04	36	< 10	2	1	0.228
26588	41	0.04	35	< 10	2	1	0.177
26589	29	0.07	66	< 10	2	1	0.147
26590 - NS							
26591	88	0.03	28	< 10	1	< 1	0.128
26592	83	0.03	25	< 10	< 1	< 1	0.165
26593	62	0.04	38	< 10	1	< 1	0.180
26594	18	0.05	66	< 10	1	2	0.139
26595	73	0.04	26	< 10	1	< 1	0.136
26598	109	0.02	16	< 10	< 1	< 1	0.100

Activation Laboratories Ltd. Report: A08-4410

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.4	3.3	1160	750	15	36	619	647	0.32	377	228	<1	1470	0.80	8	7	25.7	0.02	0.14	0.06	0.043	77	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.5	0.7	6760	141	352	44	203	74	2.64	108	22	1	24	1.03	15	60	3.74	1.49	1.78	0.13	0.131	<10	7	1.36
GXR-4 Cert	4.00	0.860	6920	155	310	42.0	62.0	73.0	7.20	98.0	1640	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.3	5.0	85	1060	<2	20	802	593	3.46	10	1440	1	<10	0.93	10	29	2.33	0.61	0.59	0.26	0.057	25	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	71	1040	<2	29	101	131	6.59	225	892	<1	<10	0.17	15	91	6.74	0.97	0.43	0.12	0.034	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2790			2260											5.99							
OREAS 13P Cert			2500			2280											7.58							
24287 Ong	2.2	1.2	149	151	<2	51	92	35	0.56	<10	33	<1	<10	0.58	13	87	4.25	0.08	0.85	0.07	0.118	<10	3	22
24287 Dup	2.1	1.3	139	145	<2	47	87	33	0.63	<10	32	<1	<10	0.57	13	84	4.22	0.08	0.83	0.07	0.118	<10	3	21
24668 Ong	12.3	25.1	9610	150	<2	7990	88	1330	0.61	<10	11	<1	<10	0.19	479	26	35.5	0.03	0.36	0.02	0.013	<10	1	15
24668 Dup	12.3	26.0	9740	152	<2	8090	88	1350	0.61	<10	11	<1	<10	0.19	482	27	40.4	0.03	0.38	0.02	0.013	11	1	16
24661 Ong	0.3	<0.5	174	306	<2	121	16	60	2.15	<10	24	<1	<10	2.01	22	126	2.41	0.07	1.73	0.05	0.012	<10	4	<10
24661 Dup	0.3	0.6	176	314	<2	121	13	58	2.24	<10	24	<1	<10	2.05	22	126	2.45	0.08	1.75	0.06	0.012	<10	4	<10
28601 Ong	<0.2	<0.5	82	79	<2	27	<2	6	4.74	<10	13	<1	<10	3.89	6	99	0.70	0.02	0.56	0.58	0.017	<10	2	<10
28601 Dup	<0.2	<0.5	79	76	<2	23	<2	5	4.68	<10	11	<1	<10	3.71	5	95	0.66	0.02	0.53	0.57	0.017	<10	2	<10
26569 Ong	<0.2	<0.5	75	442	<2	69	<2	25	3.67	<10	11	<1	<10	3.04	21	151	3.22	<0.01	1.95	0.23	0.015	<10	8	<10
26569 Dup	<0.2	<0.5	73	443	<2	71	<2	24	3.52	<10	11	<1	<10	3.04	21	146	3.22	<0.01	1.95	0.23	0.015	<10	7	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	8	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	179		78	140	24	13	0.217
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	76		89	13	12	10	2.060
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	132		52	< 10	12	10	0.040
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	31		179	< 10	6	6	0.018
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
24287 Orig	10	0.05	153	< 10	10	2	0.096
24287 Dup	11	0.05	152	< 10	10	2	0.094
24668 Orig	4	0.03	41	< 10	< 1	8	5.859
24668 Dup	4	0.03	42	< 10	< 1	8	6.520
24681 Orig	15	0.05	49	< 10	1	< 1	0.152
24681 Dup	15	0.10	50	< 10	2	1	0.148
28601 Orig	55	0.05	14	< 10	1	1	0.045
28601 Dup	61	0.04	13	< 10	1	1	0.039
26569 Orig	29	0.07	68	< 10	3	2	0.148
26569 Dup	29	0.07	66	< 10	2	1	0.149
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 24-Jul-08
Invoice No.: A08-4410 Additional
Invoice Date: 02-Dec-08
Your Reference: DOSSIER 22869

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

84 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4410 Additiona**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Analyte Symbol	Ni	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FUS- Na2O2	AR-ICP	AR-ICP
24995		144	32
24998		85	39
24997		12	33
24998		92	40
24999		38	38
25000	1.75	7790	> 10000
26501		85	27
26493		1740	2470
26494		1070	1860
26495		599	390
26495		1040	547

Quality Control

Analyte Symbol	Ni	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FJS- Ni2O2	AR-ICP	AR-ICP

GXR-1 Meas		1030	26
GXR-1 Cert		1110	41.0
UNG-1 Meas	0.024		
UNG-1 Cert	0.0247		
GXR-4 Meas		6530	40
GXR-4 Cert		6520	42.0
GXR-2 Meas		85	16
GXR-2 Cert		76.0	21.0
CHR-PT+ Meas	0.572		
CHR-PT+ Cert	0.589		
GXR-6 Meas		74	20
GXR-6 Cert		69.0	27.0
OREAS 13P Meas		2420	2360
OREAS 13P Cert		2500	2260
DTS-2b Meas	0.374		
DTS-2b Cert	0.378		
24567 Orig		12	33
24567 Dup		11	32
Method Blank Method		< 1	< 1
Blank			
Method Blank Method		< 1	< 1
Blank			
Method Blank Method		< 1	< 1
Blank			
Method Blank Method	< 0.005		
Blank			
Method Blank Method	< 0.005		
Blank			



Date Submitted: 24-Jul-08
Invoice No.: A08-4411
Invoice Date: 13-Aug-08
Your Reference: DOSSIER 22870

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

110 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4411**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4411

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
26517	6.1	4.1	4970	79	<2	9710	40	105	0.70	10	13	<1	<10	0.35	459	112	38.9	0.06	0.47	0.03	0.006	11	1	<10	
26518	6.9	5.1	4700	205	<2	1270	193	277	4.27	<10	24	<1	<10	2.88	233	218	8.89	0.16	1.65	0.26	0.008	<10	3	<10	
26519	5.8	5.8	4760	210	<2	2010	198	212	4.11	<10	19	<1	<10	2.59	112	275	10.7	0.12	1.91	0.14	0.007	<10	2	<10	
26520	0.5	<0.5	1470	315	<2	1400	9	31	4.65	<10	18	<1	<10	2.41	47	119	3.83	0.03	3.17	0.32	0.003	<10	3	<10	
26521	6.6	7.7	5090	96	<2	2860	178	228	3.01	<10	10	<1	<10	2.13	148	140	13.1	0.02	0.76	0.17	0.008	<10	3	<10	
26522	4.8	4.7	3620	72	<2	6070	100	131	1.50	<10	8	<1	<10	1.37	251	88	25.1	0.02	0.53	0.10	0.007	<10	2	<10	
26523	7.4	6.8	3590	104	<2	1190	392	180	4.02	<10	7	<1	16	3.47	77	100	6.05	0.01	0.72	0.27	0.006	<10	4	<10	
26524	14.0	11.5	4240	133	<2	561	720	190	5.09	<10	8	<1	31	4.30	42	93	3.18	0.01	0.78	0.34	0.009	<10	4	<10	
26525	7.1	6.5	3590	131	<2	2850	351	121	3.84	<10	7	<1	14	2.91	131	70	13.1	0.01	0.74	0.25	0.008	<10	4	<10	
26526	7.7	13.0	4490	187	<2	1240	291	232	3.63	<10	6	<1	<10	3.05	80	173	6.72	0.01	1.05	0.22	0.006	<10	4	<10	
26773	<0.2	<0.5	198	80	<2	108	7	33	5.95	<10	309	<1	<10	3.84	17	415	2.43	0.92	2.07	0.41	0.009	<10	8	<10	
26774	0.7	0.7	719	96	<2	163	13	37	3.10	<10	154	<1	<10	1.76	30	240	2.42	0.55	1.35	0.26	0.016	<10	6	<10	
26775	1.1	4.3	1260	303	3	155	13	214	3.59	<10	114	<1	<10	0.63	37	430	5.28	1.80	0.38	0.16	0.014	<10	14	<10	
26776	0.2	0.9	289	136	3	253	3	91	4.58	<10	227	<1	<10	1.73	34	723	4.42	1.43	3.08	0.34	0.007	<10	10	<10	
26777	0.4	<0.5	356	83	<2	172	6	20	7.02	<10	80	<1	<10	5.42	18	192	1.32	1.18	0.83	0.63	0.007	<10	2	<10	
26778	0.3	<0.5	312	70	<2	158	7	15	5.90	<10	34	<1	<10	4.74	14	201	1.12	1.05	0.87	0.47	0.008	<10	2	<10	
26779	0.3	<0.5	231	65	<2	117	7	13	6.31	<10	15	<1	<10	5.14	11	154	0.91	0.57	0.57	0.52	0.007	<10	2	<10	
26780	<0.2	<0.5	6	169	<2	6	5	9	0.08	<10	63	<1	<10	9.92	<1	26	0.08	0.01	5.87	0.02	0.006	<10	<1	<10	
26781	0.3	<0.5	288	104	<2	209	14	45	5.42	<10	22	<1	<10	4.41	22	132	1.76	0.18	1.49	0.25	0.009	<10	2	<10	
26782	0.3	<0.5	200	78	<2	75	10	13	5.67	<10	15	<1	<10	4.61	8	190	0.93	0.08	0.81	0.46	0.008	<10	2	<10	
26856	0.2	<0.5	159	217	<2	125	2	33	4.74	<10	38	<1	<10	3.15	22	300	2.45	0.07	1.83	0.48	0.006	<10	4	<10	
26857	<0.2	<0.5	71	216	<2	57	<2	18	4.65	<10	21	<1	<10	3.62	10	191	1.65	0.04	1.33	0.51	0.004	<10	3	<10	
26858	<0.2	<0.5	14	220	<2	114	2	15	4.20	<10	12	<1	<10	2.97	10	81	1.86	0.02	1.63	0.38	0.006	<10	1	<10	
26859	<0.2	<0.5	3	79	<2	42	3	7	5.65	<10	10	<1	<10	4.38	4	63	0.74	0.02	0.70	0.64	0.015	<10	1	<10	
26860	<0.2	<0.5	3	207	<2	4	5	20	0.07	<10	59	<1	<10	10.1	<1	22	0.09	0.01	6.71	0.02	0.008	<10	<1	<10	
26861	<0.2	<0.5	4	77	<2	37	3	6	4.97	<10	15	<1	<10	4.06	5	90	0.71	0.02	0.67	0.57	0.012	<10	2	<10	
26862	<0.2	<0.5	49	78	<2	40	2	8	4.03	<10	16	<1	<10	3.39	6	88	0.74	0.02	0.80	0.48	0.025	<10	2	<10	
26863	<0.2	<0.5	83	280	<2	94	2	29	5.67	<10	18	<1	<10	4.28	14	296	2.35	0.05	1.92	0.23	0.006	<10	3	<10	
26864	<0.2	<0.5	173	227	2	25	<2	38	3.22	<10	149	<1	<10	0.89	10	94	3.04	0.52	2.21	0.16	0.005	<10	5	<10	
26865	0.5	0.7	487	246	<2	40	<2	58	3.05	<10	266	<1	<10	0.11	13	89	3.75	0.97	2.13	0.07	0.009	<10	9	<10	
26813	1.9	0.6	872	136	<2	119	49	24	4.16	<10	12	<1	<10	3.34	11	86	1.11	0.02	0.85	0.43	0.005	<10	2	<10	
26814	0.4	<0.5	217	139	<2	105	47	15	3.78	<10	13	<1	<10	3.15	12	111	1.02	0.03	0.87	0.45	0.004	<10	2	<10	
26815	0.3	<0.5	132	285	<2	63	49	32	2.85	<10	14	<1	<10	2.20	12	117	2.06	0.04	1.75	0.29	0.007	<10	2	<10	
26816	0.8	1.2	507	393	<2	259	80	75	2.78	<10	14	<1	<10	1.57	25	156	3.64	0.05	2.40	0.19	0.008	<10	3	<10	
26817	2.9	5.3	2520	413	<2	1830	89	287	2.37	<10	9	<1	<10	1.04	78	200	5.98	0.03	2.48	0.08	0.008	<10	3	<10	
26818	5.2	4.4	5230	209	<2	6300	85	204	1.18	<10	4	<1	<10	0.42	526	173	27.3	<0.01	1.31	0.01	0.008	<10	1	<10	
26819	6.8	9.4	5310	507	<2	3680	144	437	2.60	<10	5	<1	<10	0.53	252	355	19.5	0.01	3.28	0.01	0.008	<10	2	<10	
26820	0.7	0.5	1430	321	<2	1420	6	31	4.69	<10	17	<1	<10	2.46	48	122	3.93	0.03	3.25	0.32	0.003	<10	3	<10	
26822	7.0	7.5	5860	438	<2	3180	167	352	2.35	<10	9	<1	<10	0.64	161	145	15.3	0.04	2.64	0.04	0.008	<10	3	<10	
28823	9.2	10.9	>10000	517	<2	1870	186	487	2.39	<10	8	<1	<10	1.03	97	152	12.1	0.03	2.39	0.78	0.03	0.009	<10	3	<10
26907	2.0	1.6	1520	131	<2	1570	34	114	3.67	<10	13	<1	<10	0.62	51	67	6.58	1.79	4.03	0.24	0.011	<10	6	<10	
26908	0.4	0.8	223	69	<2	348	52	67	2.67	<10	337	<1	<10	1.29	21	60	2.37	0.07	1.95	0.31	0.015	<10	2	<10	
26909	0.5	0.6	379	103	<2	405	18	76	2.35	<10	447	<1	<10	0.28	28	93	3.62	1.20	3.00	0.17	0.008	<10	4	<10	
26910	<0.2	<0.5	4	173	<2	5	5	17	0.02	<10	54	<1	<10	10.7	<1	35	0.06	0.01	6.37	0.02	0.002	<10	<1	<10	
26911	2.8	1.8	982	107	<2	545	95	83	4.52	<10	79	<1	<10	2.32	39	143	4.46	1.42	3.20	0.38	0.024	<10	5	<10	
26912	5.2	2.3	1730	54	<2	547	75	57	5.31	<10	59	<1	<10	3.55	39	163	2.83	0.87	1.84	0.49	0.025	<10	3	<10	
26913	1.8	0.8	506	97	<2	79	69	24	5.23	<10	33	<1	<10	4.46	8	127	0.96	0.05	0.63	0.63	0.009	<10	3	<10	
26914	3.7	1.9	1160	116	<2	138	58	35	4.74	<10	37	<1	<10	4.18	14	118	1.22	0.05	0.87	0.48	0.019	<10	3	<10	
26915	15.9	7.2	5050	117	<2	1990	77	97	4.18	<10	23	<1	14	3.66	200	92	6.39	0.04	0.78	0.41	0.012	<10	2	<10	
28495	<0.2	0.5	192	105	<2	392	22	83	2.69	<10	531	<1	<10	0.36	26	88	3.66	1.54	3.15	0.23	0.008	<10	4	<10	
27504	<0.2	0.9	122	184	<2	488	3	44	2.76	<10	9	<1	<10	0.11	50	195	5.68	0.01	7.53	0.01	0.008	<10	1	<10	
27605	<0.2	<0.5	63	164	<2	450	<2	37	2.52	<10	7	<1	<10	0.08	57	274	5.16	<0.01	4.18	0.01	0.008	<10	1	<10	

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Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27505	< 0.2	0.5	93	166	< 2	496	< 2	36	2.56	< 10	6	< 1	< 10	0.11	59	171	4.87	< 0.01	4.22	0.01	0.009	< 10	< 1	< 10
27507	< 0.2	0.6	76	157	< 2	466	< 2	37	2.69	< 10	6	< 1	< 10	0.06	52	274	5.72	< 0.01	4.07	0.01	0.005	< 10	< 1	< 10
27508	< 0.2	0.5	91	177	< 2	479	< 2	38	2.83	< 10	6	< 1	< 10	0.11	53	335	5.43	< 0.01	4.57	0.01	0.007	< 10	1	< 10
27509	< 0.2	< 0.5	217	138	< 2	461	< 2	34	2.62	< 10	5	< 1	< 10	0.09	52	236	4.00	< 0.01	4.16	0.01	0.006	< 10	< 1	< 10
27510	< 0.2	< 0.5	5	184	< 2	12	7	37	0.08	< 10	48	< 1	< 10	10.5	1	22	0.16	0.01	6.07	0.01	0.004	< 10	< 1	< 10
27511	0.2	< 0.5	153	159	< 2	409	2	40	2.40	< 10	5	< 1	< 10	0.34	48	122	3.48	< 0.01	3.58	0.03	0.007	< 10	1	< 10
27512	0.2	< 0.5	146	173	< 2	409	2	34	2.39	< 10	8	< 1	< 10	1.02	46	97	3.38	< 0.01	3.61	0.03	0.007	< 10	1	< 10
27513	0.3	0.5	94	191	< 2	361	< 2	37	2.34	< 10	7	< 1	< 10	0.47	40	84	3.30	< 0.01	3.47	0.04	0.009	< 10	1	< 10
27514	0.2	< 0.5	1980	166	< 2	321	< 2	35	2.63	< 10	7	< 1	< 10	0.48	54	92	3.33	< 0.01	3.87	0.05	0.009	< 10	1	< 10
27515	< 0.2	< 0.5	36	155	< 2	166	< 2	21	3.39	< 10	14	< 1	< 10	2.11	20	80	1.95	0.02	2.36	0.10	0.009	< 10	1	< 10
27516	< 0.2	< 0.5	48	147	< 2	270	< 2	32	2.30	< 10	5	< 1	< 10	0.48	32	99	2.61	< 0.01	3.39	0.04	0.006	< 10	1	< 10
27517	< 0.2	< 0.5	63	144	< 2	251	< 2	29	2.28	< 10	6	< 1	< 10	0.48	29	64	2.40	< 0.01	3.05	0.04	0.011	< 10	1	< 10
27518	< 0.2	< 0.5	52	187	< 2	278	< 2	32	2.42	< 10	7	< 1	< 10	0.68	33	77	2.82	< 0.01	3.57	0.06	0.011	< 10	1	< 10
27519	< 0.2	< 0.5	32	178	< 2	264	< 2	33	2.42	< 10	7	< 1	< 10	0.56	31	83	2.75	< 0.01	3.46	0.05	0.009	< 10	1	< 10
27520	0.4	< 0.5	1330	309	< 2	1360	10	31	4.70	< 10	17	< 1	< 10	2.39	47	118	3.71	< 0.03	3.10	0.31	0.003	< 10	3	< 10
27521	< 0.2	< 0.5	38	172	< 2	260	< 2	32	2.41	< 10	6	< 1	< 10	0.60	31	114	2.66	< 0.01	3.41	0.06	0.006	< 10	1	< 10
27522	< 0.2	< 0.5	25	181	< 2	265	< 2	33	2.42	< 10	6	< 1	< 10	0.54	30	80	2.74	< 0.01	3.54	0.05	0.008	< 10	1	< 10
27523	< 0.2	< 0.5	19	205	< 2	333	< 2	36	2.85	< 10	6	< 1	< 10	0.31	49	94	3.44	< 0.01	4.26	0.03	0.011	< 10	1	< 10
27524	< 0.2	< 0.5	310	182	< 2	63	< 2	13	1.70	< 10	11	< 1	< 10	1.83	14	81	1.62	0.01	0.98	0.21	0.027	< 10	5	< 10
27525	< 0.2	< 0.5	90	186	< 2	59	< 2	12	1.44	< 10	26	< 1	< 10	1.46	15	70	1.75	0.03	1.02	0.19	0.026	< 10	5	< 10
27526	< 0.2	< 0.5	97	139	< 2	48	2	10	1.20	< 10	69	< 1	< 10	1.23	13	67	1.61	0.04	0.77	0.21	0.024	< 10	5	< 10
27527	< 0.2	< 0.5	131	213	< 2	55	2	14	2.83	< 10	22	< 1	< 10	2.83	16	89	2.00	0.01	1.16	0.32	0.031	< 10	7	< 10
27528	< 0.2	< 0.5	46	155	< 2	275	< 2	26	2.01	< 10	6	< 1	< 10	0.62	29	85	2.34	0.01	2.69	0.06	0.006	< 10	1	< 10
27529	< 0.2	< 0.5	33	182	< 2	177	2	23	3.89	< 10	19	< 1	< 10	2.82	22	168	2.33	0.09	2.27	0.16	0.006	< 10	2	< 10
27540	0.4	< 0.5	1380	312	< 2	1370	9	31	4.75	< 10	17	< 1	< 10	2.41	49	120	3.76	0.03	3.14	0.31	0.003	< 10	3	< 10
27541	< 0.2	< 0.5	16	305	< 2	196	2	27	3.27	< 10	16	< 1	< 10	2.28	25	196	3.06	0.03	2.76	0.09	0.006	< 10	2	< 10
27542	< 0.2	< 0.5	74	209	< 2	317	< 2	34	2.87	< 10	49	< 1	< 10	1.24	32	229	3.34	0.15	3.48	0.09	0.006	< 10	2	< 10
27543	< 0.2	< 0.5	58	194	< 2	315	< 2	28	2.49	< 10	28	< 1	< 10	1.05	33	177	3.01	0.07	3.21	0.06	0.011	< 10	2	< 10
27544	< 0.2	< 0.5	42	147	< 2	240	3	27	3.35	< 10	31	< 1	< 10	2.38	23	127	2.03	0.09	2.23	0.14	0.010	< 10	2	< 10
27545	< 0.2	< 0.5	263	184	< 2	139	4	19	4.95	< 10	52	< 1	< 10	3.29	20	490	2.32	0.17	2.41	0.37	0.003	< 10	3	< 10
27546	< 0.2	< 0.5	7	43	< 2	26	6	10	3.25	< 10	11	< 1	< 10	2.78	3	66	0.46	0.01	0.41	0.37	0.001	< 10	1	< 10
27547	< 0.2	< 0.5	2	63	< 2	34	9	9	3.70	< 10	12	< 1	< 10	2.94	4	72	0.67	0.02	0.80	0.42	0.012	< 10	1	< 10
27548	1.1	< 0.5	539	54	< 2	29	3	11	1.82	< 10	12	< 1	< 10	1.26	8	104	0.75	0.02	0.55	0.24	0.001	< 10	1	< 10
27549	< 0.2	< 0.5	29	77	< 2	42	4	10	2.38	< 10	12	< 1	< 10	1.84	5	96	0.80	0.02	0.75	0.25	0.002	< 10	1	< 10
27550	0.8	1.5	8590	233	< 2	> 10000	6	39	0.43	< 10	11	< 1	< 10	0.35	484	31	31.5	0.10	0.15	0.07	0.047	< 10	3	< 10
27551	0.4	< 0.5	342	77	< 2	263	7	17	4.78	< 10	12	< 1	< 10	3.39	20	175	1.48	0.02	1.04	0.33	0.001	< 10	1	< 10
27552	0.4	< 0.5	334	79	< 2	365	8	22	4.93	< 10	34	< 1	< 10	3.64	33	262	1.75	0.16	1.68	0.18	0.005	< 10	2	< 10
27553	1.0	0.7	725	157	< 2	546	5	38	4.27	< 10	39	< 1	< 10	2.11	58	295	3.74	0.19	3.53	0.10	0.006	< 10	2	< 10
28032	4.5	7.9	1380	356	3	462	66	259	1.02	< 10	8	6	< 10	0.99	20	706	1.96	0.16	0.69	0.07	0.007	< 10	3	65
28033	7.8	7.2	2970	543	< 2	1380	55	158	3.49	< 10	12	3	< 10	2.31	98	380	5.22	0.28	3.47	0.13	0.018	< 10	2	38
28034	8.9	4.6	3130	453	< 2	1480	67	76	2.88	< 10	11	3	< 10	2.57	75	264	4.23	0.12	2.67	0.11	0.008	< 10	2	12
28035	6.1	14.1	1780	1110	< 2	1430	140	284	3.30	86	9	1	< 10	4.72	81	306	6.39	0.11	4.31	0.03	0.006	< 10	4	13
28036	4.2	2.4	1410	351	< 2	788	77	48	3.41	< 10	8	1	< 10	2.98	47	184	2.80	0.29	1.97	0.15	0.008	< 10	2	< 10
28037	6.8	5.1	2060	255	< 2	1000	102	66	4.55	< 10	8	1	< 10	3.90	56	182	2.65	0.06	1.51	0.26	0.008	< 10	3	< 10
28038	4.0	3.5	1250	399	< 2	984	93	69	3.78	< 10	7	1	< 10	3.48	52	195	2.91	0.04	1.83	0.18	0.010	< 10	3	< 10
28039	2.3	5.9	904	192	< 2	594	78	79	4.69	< 10	6	1	< 10	4.22	33	231	2.00	0.03	1.30	0.31	0.014	< 10	5	17
28040	0.5	0.7	1370	316	< 2	1400	11	30	4.71	< 10	19	< 1	< 10	2.43	47	120	3.78	0.03	3.16	0.31	0.003	< 10	3	< 10
28041	2.1	4.1	893	313	< 2	1280	75	88	4.28	< 10	6	1	< 10	3.49	51	149	3.53	0.03	1.78	0.22	0.012	< 10	3	16
28062	3.7	5.8	4380	232	< 2	2240	145	203	1.87	13	8	< 1	< 10	1.48	353	138	18.6	0.02	1.85	0.03	0.006	< 10	5	< 10
28063	5.4	12.3	8030	274	< 2	1920	39	375	1.64	< 10	5	< 1	< 10	3.95	181	136	11.9	< 0.01	1.49	0.02	0.027	< 10	4	< 10
28064	2.4	1.9	3620	420	< 2	3090	21	132	3.00	< 10	5	< 1	< 10	1.68	220	224	18.2	0.01	3.35	0.02	0.015	< 10	7	< 10
28065	6.9	5.1	7400	516	< 2	2840	28	414	2.31	< 10	15	< 1	< 10	0.51	261	176	17.0	0.07	1.65	0.03	0.013	< 10</		

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28055	9.3	11.4	> 10000	947	< 2	2480	16	1030	3.54	20	7	< 1	< 10	1.67	119	283	16.4	0.03	3.94	0.01	0.008	< 10	9	< 10
28067	6.9	13.2	6300	940	< 2	2820	22	1210	3.47	17	6	< 1	< 10	2.39	303	366	21.9	0.02	4.14	< 0.01	0.009	< 10	10	< 10
28068	5.3	2.4	5730	736	< 2	2520	27	191	2.89	136	5	< 1	< 10	2.06	389	265	25.8	0.01	2.88	0.01	0.009	< 10	9	< 10
28069	4.6	1.4	4860	994	< 2	2960	18	125	2.57	34	5	< 1	< 10	6.38	337	88	19.7	< 0.01	2.13	0.01	0.008	< 10	5	< 10
28071	2.5	1.4	2400	947	< 2	563	17	93	3.13	96	18	1	< 10	0.45	244	76	13.2	0.10	2.72	0.01	0.056	< 10	8	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26517	8	0.02	26	< 10	< 1	6	5.343
26518	60	0.05	53	< 10	1	2	3.768
26519	58	0.05	34	< 10	1	3	4.141
26520	59	0.02	38	< 10	< 1	1	0.460
26521	28	0.02	37	< 10	1	3	5.902
26522	17	0.02	35	< 10	1	5	7.591
26523	65	0.02	21	< 10	1	2	2.486
26524	94	0.02	19	< 10	1	1	1.286
26525	71	0.02	24	< 10	1	3	5.523
26526	59	0.02	30	< 10	1	2	2.901
26773	29	0.09	68	< 10	1	1	0.113
26774	20	0.05	53	< 10	2	2	0.519
26775	18	0.17	90	< 10	1	2	0.429
26776	18	0.15	108	< 10	1	1	0.284
26777	69	0.04	23	< 10	1	< 1	0.222
26778	70	0.04	20	< 10	1	< 1	0.131
26779	99	0.04	20	< 10	1	< 1	0.110
26780	86	< 0.01	1	< 10	< 1	< 1	0.076
26781	67	0.05	24	< 10	1	1	0.194
26782	89	0.03	19	< 10	1	< 1	0.067
26856	57	0.05	36	< 10	1	1	0.148
26857	65	0.03	22	< 10	1	1	0.059
26858	67	0.01	9	< 10	2	2	0.033
26859	105	0.01	8	< 10	1	< 1	0.030
26860	69	< 0.01	1	< 10	< 1	< 1	0.080
26861	88	0.02	14	< 10	2	1	0.028
26862	67	0.03	15	< 10	1	1	0.035
26863	51	0.05	34	< 10	1	1	0.072
26864	23	0.05	17	< 10	3	1	0.050
26865	10	0.09	23	< 10	2	2	0.234
26813	66	0.01	9	< 10	< 1	< 1	0.166
26814	73	0.01	12	< 10	1	1	0.035
26815	31	0.02	17	< 10	1	1	0.041
26816	19	0.02	19	< 10	1	1	0.393
26817	12	0.04	27	< 10	1	4	3.960
26818	4	0.04	24	< 10	1	6	9.271
26819	5	0.05	34	< 10	1	5	7.308
26820	60	0.02	38	< 10	< 1	1	0.472
26822	7	0.02	29	< 10	1	4	6.421
26823	5	0.03	30	< 10	1	4	4.883
26907	10	0.24	80	< 10	2	3	2.526
26908	16	0.14	40	< 10	2	2	0.270
26909	5	0.19	43	< 10	1	2	0.249
26910	87	< 0.01	1	< 10	< 1	< 1	0.083
26911	27	0.17	50	< 10	2	2	0.553
26912	46	0.09	67	< 10	2	1	0.775
26913	58	0.03	17	< 10	1	1	0.148
26914	57	0.03	19	< 10	2	1	0.299
26915	55	0.02	17	< 10	2	2	3.488
28495	5	0.23	38	< 10	1	2	0.148
27504	1	0.02	38	< 10	< 1	1	0.214
27905	< 1	0.02	35	< 10	< 1	1	0.186

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27905	< 1	0.02	31	< 10	< 1	1	0.258
27907	< 1	0.02	40	< 10	< 1	1	0.207
27908	< 1	0.02	41	< 10	< 1	1	0.239
27909	< 1	0.02	26	< 10	< 1	1	0.239
27910	112	< 0.01	1	< 10	< 1	< 1	0.087
27911	1	0.02	15	< 10	< 1	1	0.319
27912	7	0.03	19	< 10	< 1	1	0.321
27913	1	0.03	16	< 10	< 1	1	0.187
27914	1	0.02	14	< 10	1	1	0.240
27915	112	0.02	16	< 10	1	1	0.021
27918	2	0.02	12	< 10	< 1	1	0.009
27917	2	0.02	12	< 10	< 1	1	0.011
27918	2	0.02	14	< 10	< 1	1	0.012
27919	2	0.02	12	< 10	< 1	1	0.008
27920	59	0.02	38	< 10	< 1	1	0.441
27921	2	0.02	13	< 10	< 1	1	0.010
27922	2	0.02	14	< 10	1	1	0.007
27923	1	0.02	19	< 10	< 1	1	0.016
27934	52	0.08	41	< 10	2	1	0.103
27935	35	0.08	42	< 10	2	1	0.099
27936	20	0.08	41	< 10	2	1	0.105
27937	103	0.10	58	< 10	4	1	0.107
27938	4	0.02	14	< 10	< 1	1	0.088
27939	58	0.03	26	< 10	1	1	0.052
27940	59	0.02	36	< 10	< 1	1	0.451
27941	28	0.04	29	< 10	1	1	0.038
27942	15	0.09	35	< 10	1	1	0.079
27943	8	0.08	29	< 10	1	1	0.059
27944	48	0.05	23	< 10	1	1	0.082
27945	67	0.05	44	< 10	1	1	0.089
27946	43	< 0.01	5	< 10	1	< 1	0.020
27947	44	< 0.01	9	< 10	1	< 1	0.021
27948	20	< 0.01	5	< 10	1	2	0.124
27949	21	< 0.01	11	< 10	2	1	0.023
27950	14	0.09	56	< 10	14	15	7.916
27951	30	< 0.01	13	< 10	1	1	0.327
27952	28	0.04	24	< 10	1	1	0.383
27953	22	0.05	32	< 10	1	2	0.738
28032	5	0.01	5	< 10	8	7	0.810
28033	25	0.08	30	< 10	1	2	1.210
28034	20	0.04	24	< 10	1	2	1.245
28035	8	0.04	36	< 10	1	2	0.844
28036	48	0.02	19	< 10	1	1	0.828
28037	88	0.02	20	< 10	1	1	0.777
28038	80	0.02	22	< 10	1	1	0.834
28039	52	0.02	24	< 10	1	1	0.443
28040	59	0.02	38	< 10	< 1	1	0.408
28041	88	0.01	18	< 10	1	1	0.847
28062	5	0.04	65	< 10	2	5	9.689
28063	11	0.09	59	< 10	10	4	7.857
28064	8	0.12	87	< 10	22	6	8.806
28065	5	0.04	99	< 10	1	4	7.122

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28066	3	0.04	104	< 10	2	4	5.546
28067	4	0.05	90	< 10	3	5	6.910
28068	4	0.03	64	< 10	3	5	10.64
28069	13	0.02	53	< 10	5	4	7.415
28071	2	0.09	67	< 10	10	6	5.008

Activation Laboratories Ltd. Report: A08-4411

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.7	3.1	1160	734	14	36	888	525	0.31	365	365	1	1450	0.77	7	8	25.5	0.02	0.13	0.06	0.040	74	1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.1	0.6	6060	122	315	36	39	53	2.37	95	27	1	17	0.90	14	54	3.24	1.33	1.55	0.11	0.116	< 10	6	< 10
GXR-4 Cert	4.00	0.660	6020	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.064	0.120	4.80	7.70	5.60
GXR-2 Meas	19.3	5.1	87	1050	< 2	20	789	586	3.30	15	1200	1	< 10	0.86	10	29	2.39	0.61	0.57	0.23	0.063	36	5	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.2	0.8	69	954	< 2	25	91	118	6.57	230	927	1	< 10	0.18	14	84	5.38	0.84	0.41	0.12	0.032	< 10	20	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas						2420											6.35							
OREAS 13P Cert						2280											7.58							
26775 Ong	1.1	4.3	1260	299	3	153	12	209	3.34	< 10	105	< 1	< 10	0.61	37	427	5.25	1.80	3.54	0.16	0.014	< 10	14	< 10
26775 Dup	1.1	4.3	1260	306	2	157	13	219	3.44	< 10	123	< 1	< 10	0.64	35	432	5.31	1.60	3.62	0.16	0.014	< 10	14	< 10
26862 Ong	< 0.2	< 0.5	48	75	< 2	40	2	6	4.11	< 10	17	< 1	< 10	3.41	5	86	0.74	0.02	0.60	0.49	0.026	< 10	2	< 10
26862 Dup	< 0.2	< 0.5	50	77	< 2	40	2	6	3.98	< 10	15	< 1	< 10	3.37	6	86	0.73	0.02	0.69	0.47	0.026	< 10	2	< 10
26823 Ong	9.1	10.8	> 10000	514	< 2	1870	167	456	2.38	< 10	8	< 1	< 10	1.03	58	151	12.1	0.03	2.74	0.03	0.008	< 10	3	< 10
26823 Dup	9.3	11.0	> 10000	520	< 2	1860	164	458	2.41	< 10	8	< 1	< 10	1.04	55	152	12.2	0.03	2.77	0.03	0.009	< 10	3	< 10
27907 Ong	< 0.2	0.7	76	156	< 2	472	< 2	36	2.54	< 10	6	< 1	< 10	0.07	53	272	5.18	< 0.01	4.04	0.01	0.005	< 10	< 1	< 10
27907 Dup	< 0.2	0.5	74	158	< 2	457	< 2	38	2.63	< 10	6	< 1	< 10	0.06	50	276	5.27	< 0.01	4.09	0.01	0.005	< 10	< 1	< 10
27940 Ong	0.4	< 0.5	1380	305	< 2	1350	10	31	4.70	< 10	17	< 1	< 10	2.37	47	116	3.67	0.03	3.07	0.31	0.003	< 10	2	< 10
27940 Dup	0.5	0.5	1360	319	< 2	1390	8	31	4.60	< 10	17	< 1	< 10	2.45	48	122	3.84	0.03	3.21	0.31	0.003	< 10	3	< 10
28032 Ong	4.5	7.6	1370	353	3	443	54	258	1.01	< 10	8	6	< 10	0.59	19	206	1.96	0.16	0.56	0.07	0.007	< 10	3	55
28032 Dup	4.5	8.0	1390	356	3	461	56	260	1.03	< 10	8	6	< 10	0.59	20	206	1.99	0.16	0.59	0.07	0.007	< 10	3	55
28055 Ong	6.8	5.1	7430	514	< 2	2880	27	412	2.30	< 10	17	< 1	< 10	0.50	287	173	17.0	0.07	1.55	0.03	0.013	< 10	4	< 10
28055 Dup	7.0	5.1	7370	517	< 2	2790	28	418	2.32	< 10	13	< 1	< 10	0.52	254	178	17.1	0.07	1.55	0.03	0.013	< 10	4	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	1	< 0.01	< 10	5	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	189		76	133	23	13	0.214
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	66		78	10	10	9	1.860
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	93		52	< 10	11	12	0.041
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	32		166	< 10	6	12	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
26775 Orig	17	0.17	89	< 10	1	2	0.437
26775 Dup	18	0.17	91	< 10	1	2	0.421
26862 Orig	68	0.03	16	< 10	1	1	0.036
26862 Dup	66	0.03	16	< 10	1	1	0.034
26823 Orig	5	0.03	29	< 10	1	3	4.747
26823 Dup	5	0.03	30	< 10	1	4	4.580
27907 Orig	< 1	0.02	39	< 10	< 1	1	0.209
27907 Dup	< 1	0.02	40	< 10	< 1	1	0.206
27940 Orig	58	0.02	37	< 10	< 1	1	0.441
27940 Dup	59	0.02	39	< 10	< 1	1	0.460
28032 Orig	5	0.01	5	< 10	8	6	0.795
28032 Dup	5	0.01	5	< 10	8	7	0.825
28065 Orig	5	0.03	98	< 10	1	4	6.466
28065 Dup	5	0.04	99	< 10	1	4	7.788
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 24-Jul-08
Invoice No.: A08-4411 Additional
Invoice Date: 03-Dec-08
Your Reference: DOSSIER 22870

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

110 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4411 Additiona**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Activation Laboratories Ltd. Report:

Analyte Symbol	Cu	Ni
Unit Symbol	ppm	ppm
Detection Limit	1	1
Analysis Method	AR-ICP	AR-ICP
28065	7070	2850
28066	9600	2370
28067	5740	2850
28068	4720	1780
28069	4000	2330
28070 - NS		
28071	2150	569

Quality Control

Analyte Symbol	Cu	Ni
Unit Symbol	ppm	ppm
Detection Limit	1	1
Analysis Method	AR-ICP	AR-ICP
GXR-1 Meas	1030	28
GXR-1 Cert	1110	41.0
GXR-4 Meas	5530	40
GXR-4 Cert	5520	42.0
GXR-2 Meas	85	16
GXR-2 Cert	76.0	21.0
GXR-6 Meas	74	20
GXR-6 Cert	66.0	27.0
OREAS 13P Meas	2420	2350
OREAS 13P Cert	2500	2260
Method Blank Method Blank	< 1	< 1
Method Blank Method Blank	< 1	< 1
Method Blank Method Blank	< 1	< 1



Date Submitted: 24-Jul-08
Invoice No.: A08-4412
Invoice Date: 08-Aug-08
Your Reference: DOSSIER 22872

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

82 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4412**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4412

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm 0.2	ppm 0.5	ppm 1	ppm 2	ppm 2	ppm 1	ppm 2	ppm 1	% 0.01	ppm 10	ppm 1	ppm 1	ppm 10	% 0.01	ppm 1	ppm 2	% 0.01	% 0.01	% 0.01	% 0.01	% 0.001	ppm 10	ppm 1	ppm 10
AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24543	0.3	< 0.5	148	400	< 2	225	5	40	3.27	< 10	16	< 1	< 10	2.25	28	125	3.30	0.06	2.82	0.04	0.009	< 10	3	< 10
24544	< 0.2	< 0.5	140	463	< 2	200	2	24	3.66	< 10	8	< 1	< 10	2.71	25	177	3.53	0.04	2.85	0.04	0.025	< 10	3	< 10
24545	< 0.2	< 0.5	104	395	< 2	122	3	23	3.37	< 10	11	< 1	< 10	2.52	22	137	3.03	0.04	2.45	0.06	0.010	< 10	3	< 10
24546	0.2	< 0.5	151	289	< 2	116	4	22	3.63	< 10	14	< 1	< 10	3.08	18	85	2.22	0.05	1.87	0.17	0.011	< 10	2	< 10
24547	0.3	< 0.5	274	451	< 2	164	8	30	3.88	< 10	10	< 1	< 10	2.41	22	128	3.70	0.04	2.94	0.05	0.011	< 10	5	< 10
24548	0.8	0.8	374	262	< 2	71	17	56	2.46	< 10	16	< 1	< 10	0.91	14	74	3.57	0.05	2.15	0.06	0.013	< 10	4	< 10
24549	0.6	< 0.5	236	385	< 2	188	26	36	3.91	< 10	11	< 1	< 10	2.39	30	165	3.13	0.03	2.66	0.17	0.009	< 10	3	< 10
24580	1.0	> 1	8900	237	< 2	> 10000	4	37	0.45	< 10	12	< 1	< 10	0.35	491	30	31.3	0.11	0.16	0.08	0.047	< 10	3	< 10
24551	0.6	< 0.5	314	275	< 2	452	12	32	2.56	< 10	7	< 1	< 10	1.09	37	183	3.11	0.52	2.78	0.06	0.007	< 10	2	< 10
24562	0.6	< 0.5	490	301	< 2	343	2	36	2.70	< 10	7	< 1	< 10	1.24	36	196	3.11	0.02	2.99	0.06	0.008	< 10	2	< 10
24593	3.5	2.9	2540	121	< 2	8100	33	158	1.05	< 10	15	< 1	< 10	0.38	352	30	37.2	0.13	0.58	0.05	0.020	10	2	< 10
24594	5.4	9.0	3810	273	< 2	2270	126	535	1.69	< 10	24	< 1	< 10	0.84	105	45	14.7	0.17	1.16	0.12	0.031	< 10	6	< 10
24595	9.5	9.4	4460	456	< 2	174	313	445	2.40	< 10	22	< 1	< 10	1.37	28	52	7.19	0.06	2.14	0.04	0.060	< 10	8	< 10
24596	7.8	2.0	3990	303	< 2	104	66	85	2.03	< 10	52	< 1	< 10	1.23	22	80	5.06	0.19	1.58	0.09	0.079	< 10	8	< 10
24597	0.6	< 0.5	353	382	3	16	10	58	2.69	< 10	262	< 1	< 10	0.91	11	73	4.04	0.82	1.84	0.17	0.045	< 10	7	< 10
24598	< 0.2	< 0.5	74	350	3	6	> 2	38	1.98	< 10	135	< 1	< 10	0.37	9	72	3.53	0.47	1.68	0.06	0.037	< 10	6	< 10
24599	< 0.2	< 0.5	147	783	< 2	57	< 2	42	2.85	< 10	11	< 1	< 10	2.20	28	78	6.95	0.05	2.63	0.05	0.038	< 10	9	< 10
24700	0.9	1.2	7870	208	< 2	> 10000	3	34	0.41	< 10	20	< 1	< 10	0.33	465	29	30.3	0.10	0.14	0.07	0.045	< 10	3	< 10
24701	0.4	0.7	288	405	< 2	30	7	123	2.23	< 10	38	< 1	< 10	0.82	16	48	8.45	0.22	1.93	0.06	0.055	< 10	4	< 10
24702	< 0.2	< 0.5	95	350	< 2	38	< 2	59	2.61	< 10	35	< 1	< 10	1.57	25	58	5.78	0.18	1.71	0.09	0.071	< 10	10	< 10
24703	< 0.2	< 0.5	99	499	< 2	41	< 2	50	2.19	< 10	29	< 1	< 10	1.78	22	61	4.34	0.15	1.77	0.07	0.048	< 10	8	< 10
24704	< 0.2	< 0.5	36	513	< 2	14	< 2	79	3.34	< 10	78	< 1	< 10	0.93	18	53	5.28	0.41	3.21	0.07	0.077	< 10	9	< 10
24705	< 0.2	< 0.5	6	446	< 2	16	< 2	79	3.22	< 10	161	< 1	< 10	0.64	15	63	4.47	0.67	3.14	0.07	0.079	< 10	10	< 10
24706	< 0.2	< 0.5	98	465	< 2	32	> 2	53	2.61	< 10	73	< 1	< 10	1.56	24	63	4.93	0.37	2.09	0.06	0.064	< 10	9	< 10
24707	< 0.2	< 0.5	97	397	< 2	40	2	42	2.05	< 10	21	< 1	< 10	1.80	26	54	4.61	0.12	1.35	0.10	0.059	< 10	7	< 10
24708	0.8	0.8	587	436	7	43	9	80	2.17	< 10	39	< 1	< 10	1.46	24	67	4.98	0.20	1.62	0.06	0.041	< 10	7	< 10
24709	0.4	< 0.5	490	388	3	23	6	141	1.90	< 10	62	< 1	< 10	0.82	17	82	4.56	0.42	1.49	0.03	0.015	< 10	4	< 10
24710	< 0.2	< 0.5	13	173	< 2	3	4	8	0.65	< 10	80	< 1	< 10	8.35	< 1	23	0.14	0.02	5.28	0.01	0.003	< 10	< 1	< 10
24711	< 0.2	< 0.5	27	339	2	5	11	61	1.62	< 10	78	< 1	< 10	0.57	5	89	2.56	0.31	1.39	0.04	0.013	< 10	3	< 10
24712	< 0.2	1.0	53	737	3	20	7	485	2.18	< 10	39	< 1	< 10	1.12	13	88	3.52	0.14	1.71	0.05	0.036	< 10	4	< 10
24713	< 0.2	< 0.5	25	596	2	13	6	67	2.60	< 10	58	< 1	< 10	1.27	7	83	3.32	0.29	1.68	0.04	0.027	< 10	4	< 10
24714	< 0.2	< 0.5	39	732	6	15	3	117	3.27	< 10	159	< 1	< 10	0.38	18	49	5.49	0.99	2.31	0.07	0.038	< 10	5	< 10
24945	5.5	3.3	2680	376	< 2	1310	56	161	2.05	< 10	19	< 1	< 10	1.05	53	377	4.86	0.05	1.91	0.09	0.007	< 10	6	< 10
24947	8.5	5.9	4600	959	< 2	1890	93	239	1.99	< 10	33	< 1	< 10	0.71	109	347	6.84	0.08	1.92	0.07	0.013	< 10	5	< 10
24948	3.8	2.2	1780	258	< 2	571	51	127	1.88	< 10	10	< 1	< 10	1.12	39	141	2.71	0.02	1.25	0.18	0.007	< 10	3	< 10
24949	5.6	3.1	2940	378	< 2	1120	96	168	3.71	< 10	24	< 1	< 10	2.13	65	212	4.79	0.07	2.11	0.16	0.010	< 10	1	< 10
24950	0.9	> 1	8640	241	< 2	> 10000	4	39	0.45	< 10	12	< 1	< 10	0.35	487	31	31.5	0.11	0.16	0.08	0.048	< 10	3	< 10
24951	3.4	4.8	1650	332	< 2	464	99	224	2.65	< 10	15	< 1	< 10	1.88	35	195	2.96	0.04	1.43	0.18	0.018	< 10	4	< 10
24962	0.2	< 0.5	106	227	< 2	62	60	41	3.63	< 10	14	< 1	< 10	3.16	12	100	1.66	0.03	0.66	0.31	0.016	< 10	6	< 10
24983	< 0.2	< 0.5	80	382	< 2	88	40	32	2.71	< 10	10	< 1	< 10	2.08	19	154	2.87	0.02	1.60	0.11	0.014	< 10	5	< 10
24984	0.2	< 0.5	96	319	< 2	60	33	30	2.66	< 10	12	< 1	< 10	2.29	15	117	2.32	0.03	1.40	0.17	0.014	< 10	5	< 10
24985	< 0.2	< 0.5	70	240	< 2	44	34	25	3.13	< 10	13	< 1	< 10	2.83	13	102	1.72	0.03	1.03	0.27	0.016	< 10	5	< 10
26753	< 0.2	< 0.5	4	99	< 2	97	< 2	30	6.17	< 10	208	< 1	< 10	2.28	24	392	3.82	1.56	4.35	0.43	0.006	< 10	8	< 10
26754	< 0.2	< 0.5	7	120	< 2	79	2	14	5.80	< 10	87	< 1	< 10	3.07	15	346	2.40	0.47	2.72	0.46	0.007	< 10	4	< 10
26755	0.2	< 0.5	19	112	< 2	44	< 2	5	4.63	< 10	27	< 1	< 10	3.41	8	134	1.09	0.11	0.97	0.48	0.011	< 10	3	< 10
26755	0.9	< 0.5	1610	98	< 2	40	< 2	11	4.43	< 10	87	< 1	< 10	3.25	13	100	1.53	0.19	1.03	0.31	0.025	< 10	3	< 10
26767	< 0.2	< 0.5	66	76	< 2	40	> 2	3	4.16	< 10	52	< 1	< 10	3.10	8	114	0.87	0.09	0.72	0.62	0.010	< 10	2	< 10
26788	< 0.2	< 0.5	646	74	< 2	81	< 2	9	2.65	< 10	50	< 1	< 10	1.58	11	225	1.13	0.17	1.21	0.20	0.007	< 10	2	< 10
26785	< 0.2	< 0.5	109	107	< 2	66	< 2	8	4.05	< 10	94	< 1	< 10	2.85	16	153	1.75	0.20	0.85	0.28	0.012	< 10	8	< 10
26780	< 0.2	< 0.5	7	194	< 2	2	3	14	0.12	< 10	70	< 1	< 10	10.8	< 1	16	0.08	0.01	7.00	0.62	0.004	< 10	< 1	< 10
26761	< 0.2	< 0.5	38	124	< 2	43	< 2	7	5.15	< 10	35	< 1	< 10	4.08	13	178	1.14	0.08	0.94	0.41	0.012	< 10	4	< 10
26762	< 0.2	< 0.5	74	194	< 2	31	2	8	3.40	< 10	20	< 1	< 10	2.89	10	96	1.27	0.01	0.75	0.32	0.012	< 10	3	< 10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	<10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26655	2.0	1.1	1990	45	<2	1270	49	41	5.50	<10	62	<1	<10	3.42	53	367	5.10	0.43	1.05	0.60	0.012	<10	2	<10
26657	2.4	1.4	2050	43	<2	1960	55	43	4.78	<10	35	<1	<10	2.93	78	400	7.20	0.39	1.03	0.49	0.008	<10	2	<10
26658	1.8	1.2	1350	40	<2	854	74	24	6.45	<10	68	<1	<10	4.59	105	279	3.66	0.15	0.53	0.63	0.017	<10	2	<10
26659	0.4	<0.5	293	105	<2	368	38	59	4.35	<10	163	<1	<10	1.76	25	158	3.54	0.57	2.97	0.34	0.005	<10	5	<10
26860	0.5	<0.5	1220	285	<2	1230	5	25	4.42	<10	17	<1	<10	2.11	42	107	3.25	0.03	2.82	0.29	0.003	<10	2	<10
26851	0.8	<0.5	584	91	<2	678	25	71	2.55	<10	103	<1	<10	0.87	74	89	4.20	0.85	2.93	0.15	0.007	<10	4	<10
26862	0.8	0.5	544	174	<2	525	19	107	3.98	<10	110	<1	<10	0.58	83	36	5.55	1.17	4.63	0.09	0.004	<10	8	<10
26863	0.7	<0.5	444	1/2	<2	343	13	96	3.40	<10	296	<1	<10	0.25	36	51	4.43	0.88	3.97	0.07	0.006	<10	7	<10
26654	0.5	<0.5	277	139	<2	85	12	86	2.91	<10	282	<1	<10	0.23	19	55	4.02	0.85	3.37	0.09	0.009	<10	7	<10
26655	0.7	<0.5	340	81	<2	96	18	73	2.66	<10	304	<1	<10	0.42	22	63	3.43	0.96	2.73	0.16	0.013	<10	5	<10
26915	9.0	3.2	2140	145	<2	1070	61	70	3.03	<10	32	<1	<10	1.88	51	383	3.28	0.17	2.28	0.12	0.012	<10	1	<10
26917	29.7	16.5	>10000	139	<2	1350	85	153	4.25	<10	22	<1	<10	3.01	50	223	4.16	0.10	1.64	0.20	0.013	<10	2	<10
26918	27.0	14.4	8260	118	<2	1720	65	108	2.93	<10	12	<1	<10	2.19	112	177	5.96	0.05	0.84	0.18	0.013	<10	2	<10
26919	7.2	3.8	2300	141	<2	2180	53	61	2.75	<10	25	<1	<10	1.38	102	216	5.15	0.14	2.54	0.11	0.010	<10	2	<10
26920	0.5	<0.5	1270	299	<2	1280	8	25	4.52	<10	17	<1	<10	2.20	44	110	3.45	0.03	2.96	0.30	0.003	<10	2	<10
26921	9.2	7.2	2490	132	<2	1150	72	84	2.49	<10	22	<1	17	0.87	55	233	4.01	0.11	2.90	0.06	0.007	<10	1	<10
26922	6.3	9.2	2680	144	<2	1110	72	84	3.31	<10	19	<1	<10	1.89	54	214	3.71	0.10	2.45	0.12	0.008	<10	2	<10
26923	7.3	4.3	2160	136	<2	1140	74	51	3.66	<10	17	<1	<10	2.79	52	166	2.95	0.08	1.78	0.17	0.007	<10	2	<10
26924	11.2	5.1	3170	120	<2	1840	77	55	4.27	<10	10	<1	<10	3.24	89	175	3.40	0.03	1.23	0.22	0.009	<10	2	<10
26925	3.9	2.5	1130	79	<2	572	104	35	6.07	<10	13	<1	<10	4.60	30	125	1.73	0.04	0.95	0.32	0.006	<10	2	<10
26926	5.0	2.4	1640	129	<2	714	91	38	6.02	<10	9	<1	<10	4.28	65	112	2.41	0.02	1.07	0.40	0.004	<10	2	<10
26927	4.4	4.2	1760	152	<2	937	85	58	5.18	<10	22	<1	<10	3.47	52	189	3.14	0.09	1.35	0.24	0.007	<10	2	<10
26928	3.4	2.4	2070	207	<2	864	67	136	3.25	<10	27	<1	<10	2.19	113	77	5.33	0.04	1.21	0.29	0.022	<10	2	<10
26929	15.5	5.8	>10000	297	<2	1650	27	309	2.67	<10	27	<1	<10	1.20	58	126	9.89	0.10	2.23	0.09	0.008	<10	3	<10
26930	0.7	<0.5	536	192	<2	66	6	27	0.15	<10	103	<1	<10	6.91	4	29	0.52	0.02	5.78	0.02	0.004	<10	<1	<10
26931	16.6	15.5	>10000	264	<2	1960	9	616	2.24	<10	8	<1	<10	0.95	133	94	13.0	0.01	2.32	0.07	0.016	<10	3	<10
26932	10.3	14.1	8500	490	<2	1620	24	587	3.55	<10	31	<1	<10	1.91	139	111	14.0	0.12	3.11	0.06	0.027	<10	8	<10
26933	1.0	0.9	413	515	3	107	24	153	3.27	<10	234	<1	<10	0.35	18	62	5.29	0.81	2.27	0.06	0.044	<10	7	<10
26934	0.3	<0.5	90	548	<2	45	14	146	3.78	<10	201	<1	<10	0.44	20	85	5.70	0.77	2.83	0.05	0.057	<10	9	<10
26935	1.0	0.5	1650	342	<2	665	8	77	1.72	<10	44	<1	<10	0.68	35	48	10.7	0.19	1.50	0.04	0.044	<10	1	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24543	12	0.03	32	< 10	2	1	0.196
24544	8	0.03	36	< 10	3	2	0.154
24545	11	0.03	29	< 10	1	1	0.059
24546	42	0.02	21	< 10	< 1	< 1	0.077
24547	12	0.04	31	< 10	8	2	0.102
24548	11	0.08	13	< 10	14	3	0.336
24549	35	0.03	26	< 10	1	1	0.142
24550	14	0.08	66	< 10	15	16	8.498
24551	15	0.03	22	< 10	< 1	< 1	0.179
24552	11	0.04	23	< 10	< 1	1	0.216
24553	7	0.04	81	< 10	2	9	8.594
24554	14	0.08	94	< 10	4	4	5.066
24555	10	0.11	105	< 10	8	2	1.091
24556	20	0.12	101	< 10	9	2	0.643
24557	18	0.17	37	< 10	11	6	0.064
24558	11	0.14	20	< 10	16	9	0.020
24559	11	0.14	132	< 10	9	3	0.256
24700	14	0.07	64	< 10	14	14	8.061
24701	10	0.12	49	< 10	10	6	1.593
24702	19	0.17	202	< 10	12	3	0.270
24703	16	0.15	92	< 10	7	3	0.163
24704	25	0.15	76	< 10	10	4	0.066
24705	25	0.16	76	< 10	10	5	0.010
24706	11	0.20	106	< 10	10	4	0.315
24707	14	0.15	119	< 10	8	2	0.269
24708	10	0.17	91	< 10	13	6	0.737
24709	8	0.10	19	< 10	14	7	0.760
24710	65	< 0.01	6	< 10	< 1	< 1	0.075
24711	8	0.10	10	< 10	21	11	0.051
24712	10	0.18	27	< 10	21	11	0.463
24713	10	0.15	20	< 10	16	10	0.753
24714	17	0.20	22	< 10	15	12	0.540
24945	12	0.08	59	< 10	1	2	1.403
24947	10	0.06	54	< 10	2	3	3.023
24948	15	0.03	25	< 10	1	1	0.821
24949	29	0.05	27	< 10	< 1	1	1.438
24950	14	0.09	66	< 10	15	16	8.349
24951	30	0.05	40	< 10	2	1	0.554
24952	57	0.05	42	< 10	2	< 1	0.086
24953	15	0.05	80	< 10	3	2	0.111
24954	26	0.05	47	< 10	2	1	0.087
24955	53	0.04	40	< 10	2	< 1	0.097
26753	44	0.11	96	< 10	< 1	1	0.022
26754	91	0.08	71	< 10	1	< 1	0.021
26755	101	0.05	29	< 10	1	< 1	0.048
26756	45	0.09	37	< 10	2	< 1	0.313
26757	93	0.04	20	< 10	< 1	< 1	0.057
26758	45	0.04	23	< 10	1	< 1	0.089
26759	51	0.07	60	< 10	1	1	0.186
26760	88	< 0.01	8	< 10	< 1	< 1	0.079
26761	58	0.04	37	< 10	1	< 1	0.039
26762	43	0.03	25	< 10	1	< 1	0.085

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26685	52	0.05	41	< 10	2	2	2.308
26687	47	0.05	37	< 10	1	3	3.217
26688	64	0.02	24	< 10	2	2	1.938
26689	22	0.07	49	< 10	< 1	1	0.462
26690	53	0.02	34	< 10	< 1	1	0.405
26691	9	0.10	46	< 10	1	1	0.950
26692	6	0.16	54	< 10	< 1	2	0.774
26693	3	0.11	42	< 10	< 1	1	0.421
26694	4	0.12	41	< 10	< 1	1	0.358
26695	7	0.13	42	< 10	1	1	0.399
26918	23	0.05	22	< 10	< 1	1	0.907
26917	56	0.03	19	166	< 1	2	2.142
26918	40	0.03	25	22	1	3	2.776
26919	19	0.05	22	< 10	< 1	2	2.020
26920	55	0.02	35	< 10	< 1	1	0.420
26921	7	0.04	19	< 10	< 1	1	1.153
26922	27	0.04	20	< 10	< 1	1	1.176
26923	50	0.03	16	< 10	< 1	< 1	1.041
26924	59	0.02	17	< 10	< 1	1	1.584
26925	89	0.01	14	< 10	< 1	< 1	0.563
26926	72	< 0.01	15	< 10	< 1	< 1	0.863
26927	67	0.03	26	< 10	1	1	1.031
26928	35	0.04	25	< 10	4	2	2.386
26929	11	0.05	31	< 10	2	4	4.039
26930	91	< 0.01	8	< 10	< 1	< 1	0.255
26931	6	0.04	44	< 10	1	4	5.775
26932	10	0.08	97	< 10	4	4	4.551
26933	16	0.15	31	< 10	7	6	0.329
26934	19	0.11	58	< 10	8	5	0.110
26935	7	0.03	10	< 10	7	6	2.624

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.8	3.4	1150	812	14	28	884	593	0.32	365	221	<1	1390	0.80	9	7	24.4	0.03	0.13	0.05	0.037	73	1	25
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.1	0.5	6520	128	310	37	41	53	2.57	94	32	1	26	0.85	14	53	3.33	1.30	1.55	0.11	0.119	<10	6	<10
GXR-4 Cert	4.00	0.660	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	17.3	4.2	83	996	<2	16	715	524	3.08	15	960	1	<10	0.71	10	24	2.11	0.51	0.49	0.14	0.059	35	4	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	63	894	<2	16	83	102	6.07	234	824	<1	<10	0.15	13	73	5.44	0.80	0.35	0.07	0.031	<10	19	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2590			2070											5.30							
OREAS 13P Cert			2500			2280											7.58							
24655 Ong	9.6	9.6	4570	464	<2	177	319	453	2.43	<10	22	<1	<10	1.39	28	53	7.27	0.06	2.17	0.04	0.060	<10	8	<10
24695 Dup	9.4	9.2	4340	448	<2	171	306	438	2.37	<10	21	<1	16	1.35	28	52	7.11	0.06	2.11	0.04	0.060	<10	8	<10
24705 Ong	0.4	<0.5	489	372	2	22	6	134	1.65	<10	59	<1	<10	0.78	17	77	4.40	0.41	1.43	0.03	0.014	<10	4	<10
24705 Dup	0.4	0.8	491	404	3	24	7	149	1.51	<10	65	<1	<10	0.88	18	86	4.73	0.44	1.68	0.03	0.016	<10	4	<10
24953 Ong	<0.2	<0.5	80	380	<2	66	44	31	2.68	<10	9	<1	<10	2.04	19	151	2.84	0.02	1.58	0.11	0.014	<10	5	<10
24953 Dup	<0.2	<0.5	81	385	<2	67	36	33	2.74	<10	11	<1	<10	2.09	20	157	2.91	0.02	1.61	0.12	0.014	<10	5	<10
26667 Ong	2.4	1.4	2040	42	<2	1970	54	43	4.60	<10	41	<1	<10	2.95	79	387	7.29	0.39	1.04	0.49	0.008	<10	2	<10
26667 Dup	2.4	1.4	2060	43	<2	1980	56	44	4.75	<10	30	<1	<10	2.92	78	403	7.12	0.38	1.03	0.48	0.008	<10	2	<10
26930 Ong	0.7	<0.5	566	195	<2	70	8	28	0.17	<10	103	<1	<10	9.05	4	30	0.54	0.02	5.80	0.02	0.004	<10	<1	<10
26930 Dup	0.7	<0.5	511	189	<2	63	6	26	0.15	<10	104	<1	<10	8.78	3	26	0.50	0.02	5.77	0.02	0.004	<10	<1	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	0.02	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	153		72	174	22	13	0.209
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	56		74	13	11	9	1.814
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	79		46	< 10	11	10	0.037
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	29		149	< 10	6	18	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
24655 Orig	10	0.11	107	< 10	8	2	1.107
24655 Dup	10	0.11	103	< 10	8	2	1.075
24709 Orig	5	0.10	16	< 10	13	7	0.731
24709 Dup	6	0.10	19	< 10	14	7	0.789
24653 Orig	15	0.05	59	< 10	3	2	0.111
24653 Dup	15	0.05	61	< 10	3	2	0.112
26667 Orig	47	0.05	37	< 10	1	3	3.261
26667 Dup	46	0.05	37	< 10	1	2	3.174
26930 Orig	91	< 0.01	8	< 10	< 1	< 1	0.264
26930 Dup	92	< 0.01	8	< 10	< 1	< 1	0.247
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 24-Jul-08
Invoice No.: A08-4413
Invoice Date: 08-Aug-08
Your Reference: DOSSIER 22873

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

93 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4413**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is fluid and cursive, written over a horizontal dotted line.

Elitsa Hrischeva, Ph.D.
Quality Control

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Activation Laboratories Ltd. Report: A08-4413

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm 0.2	ppm 0.5	ppm 1	ppm 2	ppm 2	ppm 1	ppm 2	ppm 1	% 0.01	ppm 10	ppm 1	ppm 1	ppm 10	% 0.01	ppm 1	ppm 2	% 0.01	% 0.01	% 0.01	% 0.01	% 0.001	ppm 10	ppm 1	ppm 10
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27954	0.5	< 0.5	376	201	< 2	260	4	23	2.41	11	8	< 1	< 10	1.99	43	150	2.25	< 0.01	1.11	0.11	0.010	< 10	3	< 10
27955	0.5	< 0.5	209	273	< 2	166	2	72	1.29	< 10	7	< 1	< 10	1.01	25	141	1.92	< 0.01	1.01	0.06	0.018	< 10	2	< 10
27956	5.4	1.4	2060	137	< 2	955	8	46	3.18	< 10	38	< 1	< 10	2.32	58	244	2.84	0.11	1.10	0.18	0.007	< 10	2	< 10
27957	5.8	1.8	2110	92	< 2	556	8	30	2.12	< 10	8	< 1	< 10	1.79	34	133	1.90	0.01	0.84	0.13	0.009	< 10	2	< 10
27958	1.9	< 0.5	581	54	< 2	151	8	8	3.63	< 10	11	< 1	< 10	2.68	12	108	0.70	0.01	0.50	0.26	0.003	< 10	1	< 10
27959	1.8	< 0.5	577	51	< 2	300	11	10	3.92	< 10	16	< 1	< 10	2.94	21	134	0.89	0.03	0.63	0.31	0.006	< 10	2	< 10
27960	< 0.2	< 0.5	16	251	< 2	10	< 2	38	0.10	< 10	30	< 1	< 10	11.1	< 1	13	0.07	< 0.01	7.60	0.02	0.004	< 10	< 1	< 10
27961	7.2	1.5	2390	69	< 2	698	19	23	6.07	< 10	12	< 1	< 10	4.78	57	44	2.39	< 0.01	4.00	0.40	0.007	< 10	1	< 10
27962	2.1	0.6	1070	52	< 2	796	14	16	4.29	< 10	10	< 1	< 10	3.36	53	59	2.47	< 0.01	0.41	0.43	0.020	< 10	2	< 10
27963	0.9	0.9	420	128	< 2	349	22	26	6.38	< 10	20	< 1	< 10	4.64	29	97	1.92	0.04	0.96	0.47	0.003	< 10	2	< 10
27974	10.7	5.2	1880	50	< 2	280	98	28	4.62	< 10	14	< 1	< 10	3.34	30	62	1.33	0.02	0.50	0.65	0.003	< 10	2	< 10
27975	5.9	4.0	1120	50	< 2	264	54	26	3.47	< 10	17	< 1	< 10	2.30	29	90	1.28	0.04	0.50	0.59	0.006	< 10	2	< 10
27976	5.7	3.6	1120	51	< 2	189	40	24	3.32	< 10	11	< 1	< 10	2.23	21	72	1.04	0.02	0.63	0.58	0.005	< 10	2	< 10
27977	1.7	1.1	324	48	< 2	72	29	11	3.11	< 10	13	< 1	< 10	2.14	10	78	0.64	0.03	0.42	0.55	0.002	< 10	1	< 10
27978	0.6	< 0.5	138	53	< 2	105	25	9	3.72	< 10	19	< 1	< 10	2.57	10	76	0.77	0.07	0.52	0.60	0.003	< 10	2	< 10
27979	1.2	0.8	296	47	< 2	214	18	15	2.86	< 10	14	< 1	< 10	1.92	21	83	0.96	0.09	0.48	0.51	0.003	< 10	1	< 10
27980	< 0.2	< 0.5	11	182	< 2	11	< 2	7	0.10	< 10	174	< 1	< 10	9.98	< 1	11	0.07	< 0.01	6.17	0.03	0.005	< 10	< 1	< 10
27981	1.3	0.8	387	55	< 2	286	16	14	2.69	< 10	15	< 1	< 10	1.89	25	96	1.19	0.05	0.69	0.50	0.003	< 10	2	< 10
27982	0.4	< 0.5	145	44	< 2	137	13	9	2.90	< 10	20	< 1	< 10	1.98	15	87	0.80	0.08	0.48	0.52	0.003	< 10	1	< 10
27983	0.9	0.6	368	39	< 2	251	13	15	3.25	< 10	33	< 1	< 10	2.15	29	118	1.37	0.16	0.60	0.55	0.003	< 10	2	< 10
28062	2.5	4.7	2820	42*	< 2	1540	80	339	2.81	< 10	10	< 1	< 10	1.04	70	223	10.7	0.07	2.44	0.06	0.005	< 10	3	< 10
28063	2.3	1.9	2300	560	< 2	1160	94	282	2.82	< 10	9	< 1	< 10	0.96	211	208	12.3	0.05	2.75	0.04	0.005	< 10	3	< 10
28064	8.5	5.6	8810	752	< 2	2170	106	533	3.21	< 10	7	< 1	< 10	2.16	51	163	16.4	0.04	3.46	0.02	0.008	< 10	7	< 10
28065	8.9	4.2	> 10000	996	< 2	2870	36	387	2.61	< 10	7	< 1	< 10	1.34	113	184	17.5	0.09	2.78	0.02	0.008	< 10	6	< 10
28066	2.5	2.1	3200	559	< 2	1820	8	231	3.03	< 10	9	< 1	< 10	1.16	107	164	15.6	0.09	2.87	0.02	0.006	< 10	5	< 10
28067	2.2	1.8	2960	953	< 2	6610	< 2	202	3.04	< 10	6	< 1	< 10	2.24	70	140	25.2	0.02	3.17	0.01	0.009	< 10	10	13
28068	3.0	0.8	3560	209	< 2	8530	5	42	1.13	< 10	6	< 1	< 10	0.27	181	128	24.5	0.01	1.01	0.03	0.016	< 10	2	12
28069	5.9	1.2	6830	771	< 2	1370	2	154	4.17	34	7	< 1	< 10	1.72	138	165	16.6	0.02	4.30	0.02	0.018	< 10	10	14
28060	< 0.2	< 0.5	101	163	< 2	36	28	12	0.08	< 10	490	< 1	< 10	8.44	2	20	0.30	< 0.01	4.91	0.06	0.008	< 10	< 1	< 10
28061	1.6	3.1	1870	712	< 2	1330	56	354	3.08	< 10	25	< 1	< 10	2.35	89	233	11.6	0.12	2.79	0.05	0.008	< 10	6	< 10
28072	1.4	< 0.5	302	577	< 2	237	22	84	3.03	< 10	19	< 1	< 10	0.60	109	76	8.63	0.07	2.81	0.02	0.049	< 10	6	< 10
28073	1.1	< 0.5	170	524	4	172	27	135	3.40	22	18	< 1	< 10	0.27	107	111	7.90	0.07	3.88	0.02	0.038	< 10	5	< 10
28074	< 0.2	< 0.5	82	551	3	41	2	77	2.84	< 10	36	< 1	< 10	0.46	17	71	5.21	0.17	2.67	0.02	0.080	< 10	4	< 10
28075	< 0.2	< 0.5	20	628	2	13	3	79	3.04	< 10	62	< 1	< 10	0.48	18	54	5.43	0.20	2.72	0.03	0.087	< 10	5	< 10
28076	< 0.2	< 0.5	153	793	< 2	79	7	140	3.21	< 10	56	< 1	< 10	1.24	20	64	5.65	0.18	2.95	0.04	0.086	< 10	8	< 10
28077	0.3	1.1	161	596	2	9	12	219	2.29	< 10	41	< 1	< 10	0.87	12	65	4.45	0.14	1.87	0.03	0.043	< 10	4	< 10
28078	< 0.2	< 0.5	25	432	3	8	5	75	1.97	< 10	43	< 1	< 10	0.42	4	97	2.43	0.21	1.71	0.03	0.008	< 10	2	< 10
28079	0.2	< 0.5	217	454	2	77	7	119	2.20	< 10	74	< 1	< 10	0.55	11	87	3.54	0.23	1.85	0.05	0.024	< 10	3	< 10
28080	< 0.2	< 0.5	4	197	< 2	3	6	7	0.06	< 10	212	< 1	< 10	10.2	< 1	20	0.10	0.02	5.76	0.02	0.004	< 10	< 1	< 10
28081	< 0.2	< 0.5	29	387	< 2	20	5	87	1.87	< 10	57	< 1	< 10	0.47	6	78	2.50	0.23	1.48	0.04	0.016	< 10	1	< 10
28082	0.3	< 0.5	189	80	< 2	122	11	7	5.43	< 10	12	< 1	< 10	4.22	16	80	0.92	0.02	0.61	0.49	0.009	< 10	2	< 10
28083	0.3	< 0.5	164	175	< 2	124	10	10	4.89	< 10	10	< 1	< 10	3.84	20	106	1.57	0.02	1.13	0.48	0.010	< 10	3	< 10
28084	0.4	< 0.5	185	148	< 2	152	24	17	5.61	< 10	13	< 1	< 10	4.18	19	91	1.58	0.03	1.11	0.58	0.011	< 10	3	< 10
28085	0.4	< 0.5	212	120	< 2	161	16	10	5.52	< 10	13	< 1	< 10	4.10	18	86	1.27	0.03	0.93	0.54	0.010	< 10	2	< 10
28086	0.3	< 0.5	133	116	< 2	96	16	11	5.25	< 10	11	< 1	< 10	4.02	12	101	1.12	0.02	0.85	0.57	0.010	< 10	3	< 10
28087	0.3	< 0.5	121	153	< 2	108	14	11	4.62	< 10	10	< 1	< 10	3.60	16	109	1.30	0.03	1.02	0.50	0.008	< 10	3	< 10
28088	0.3	< 0.5	149	193	< 2	132	17	18	5.21	< 10	22	< 1	< 10	3.73	19	134	1.94	0.07	1.61	0.41	0.009	< 10	3	< 10
28089	0.4	< 0.5	151	118	< 2	77	17	10	4.38	< 10	14	< 1	< 10	3.99	13	97	1.03	0.04	0.82	0.55	0.013	< 10	2	< 10
28090	< 0.2	< 0.5	7	115	< 2	6	7	9	0.13	< 10	62	< 1	< 10	8.15	< 1	40	0.12	< 0.01	4.75	0.03	0.009	< 10	< 1	< 10
28091	0.3	< 0.5	126	151	< 2	109	19	12	4.49	< 10	10	< 1	< 10	3.57	14	110	1.27	0.02	0.94	0.53	0.007	< 10	3	< 10
28092	< 0.2	< 0.5	58	408	3	7	3	124	2.52	< 10	64	< 1	< 10	0.30	9	80	5.14	0.36	1.74	0.04	0.031	< 10	3	< 10
28093	< 0.2	< 0.5	127	373	2	14	4	126	2.61	< 10	73	< 1	< 10	0.78	11	80	5.34	0.51	1.66	0.04	0.015	< 10	4	< 10

Activation Laboratories Ltd. Report: A08-4413

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
28554	< 0.2	< 0.5	22	405	< 2	6	4	102	2.45	< 10	216	< 1	< 10	0.09	7	88	4.08	0.84	1.65	0.03	0.012	< 10	4	< 10
28555	< 0.2	< 0.5	109	490	3	11	3	150	2.84	< 10	156	< 1	< 10	0.22	11	85	5.51	0.63	1.94	0.04	0.013	< 10	4	< 10
28522	< 0.2	< 0.5	46	97	< 2	28	< 2	8	4.52	< 10	14	< 1	< 10	3.41	5	118	0.79	0.02	0.82	0.66	0.004	< 10	3	< 10
28523	< 0.2	< 0.5	112	520	< 2	18	4	57	1.81	< 10	122	< 1	< 10	2.05	23	48	5.77	0.27	0.85	0.19	0.133	< 10	12	< 10
28524	< 0.2	< 0.5	95	550	< 2	9	2	58	1.66	< 10	97	< 1	< 10	2.03	24	41	5.66	0.25	0.93	0.19	0.133	< 10	12	< 10
28525	< 0.2	< 0.5	79	550	< 2	6	3	56	1.69	< 10	81	< 1	< 10	1.95	23	41	5.81	0.27	0.94	0.19	0.131	< 10	12	< 10
28526	< 0.2	< 0.5	53	600	< 2	5	3	58	1.70	< 10	56	< 1	< 10	2.29	20	42	5.17	0.19	0.92	0.20	0.130	< 10	12	< 10
28527	< 0.2	< 0.5	81	446	< 2	20	2	45	2.09	< 10	76	< 1	< 10	2.07	20	86	5.63	0.21	0.91	0.21	0.100	< 10	10	< 10
28528	< 0.2	< 0.5	34	258	< 2	25	< 2	27	3.88	< 10	23	< 1	< 10	3.37	11	100	3.06	0.10	0.75	0.51	0.077	< 10	6	< 10
28529	< 0.2	< 0.5	67	84	< 2	37	2	9	5.01	< 10	10	< 1	< 10	3.88	7	107	0.88	0.05	0.64	0.61	0.096	< 10	2	< 10
28530	< 0.2	< 0.5	3	123	< 2	3	9	25	0.15	< 10	112	< 1	< 10	5.55	< 1	29	0.11	< 0.01	3.87	0.03	0.010	< 10	< 1	< 10
28531	0.4	< 0.5	196	93	< 2	71	2	24	4.45	< 10	134	< 1	< 10	2.91	15	210	2.03	0.50	1.32	0.35	0.012	< 10	4	< 10
28532	0.6	< 0.5	270	152	< 2	67	3	32	4.65	< 10	145	< 1	< 10	2.48	13	252	2.46	0.82	1.91	0.46	0.009	< 10	5	< 10
28533	0.6	< 0.5	237	110	< 2	90	7	21	4.64	< 10	114	< 1	< 10	2.86	13	185	2.05	0.58	1.68	0.34	0.017	< 10	3	< 10
28534	0.4	< 0.5	126	59	< 2	51	11	5	7.03	< 10	36	< 1	< 10	5.22	6	99	0.64	0.05	0.44	0.48	0.013	< 10	2	< 10
28535	0.2	< 0.5	66	64	< 2	50	12	12	6.63	< 10	31	< 1	< 10	4.89	6	114	0.77	0.07	0.67	0.49	0.018	< 10	1	< 10
28536	4.3	0.8	1810	82	< 2	2180	15	16	4.63	< 10	24	< 1	< 10	3.06	207	93	12.3	0.19	0.83	0.32	0.006	< 10	2	< 10
28537	0.3	< 0.5	111	53	< 2	179	16	7	7.40	< 10	19	< 1	< 10	5.51	14	97	1.21	0.14	0.63	0.49	0.013	< 10	1	< 10
28538	0.4	< 0.5	127	65	< 2	94	14	9	7.01	< 10	21	< 1	< 10	4.99	9	128	0.89	0.14	0.70	0.59	0.009	< 10	2	< 10
28539	0.6	< 0.5	123	79	< 2	64	16	9	5.02	< 10	23	< 1	< 10	4.31	8	150	0.96	0.14	0.84	0.62	0.008	< 10	2	< 10
28540	0.6	< 0.5	1340	320	< 2	1350	4	26	4.69	< 10	17	< 1	< 10	2.38	44	118	3.70	0.03	3.18	0.33	0.003	< 10	3	< 10
28551	< 0.2	< 0.5	188	345	3	24	7	57	1.47	< 10	35	< 1	< 10	0.60	5	145	2.28	0.27	0.98	0.04	0.005	< 10	2	< 10
28562	< 0.2	< 0.5	38	327	4	21	5	58	1.40	< 10	46	< 1	< 10	0.66	4	129	1.85	0.29	0.87	0.04	0.005	< 10	3	< 10
28563	< 0.2	< 0.5	14	786	< 2	40	3	206	3.84	< 10	298	< 1	< 10	0.48	16	101	4.95	1.04	2.72	0.08	0.043	< 10	11	< 10
28564	< 0.2	0.8	64	742	< 2	47	< 2	313	4.05	< 10	345	< 1	< 10	0.57	20	96	5.27	1.09	2.97	0.07	0.059	< 10	12	< 10
28566	< 0.2	< 0.5	11	479	< 2	29	< 2	147	2.64	< 10	427	< 1	< 10	0.18	15	86	4.11	0.92	1.81	0.07	0.045	< 10	10	< 10
28569	< 0.2	< 0.5	35	580	3	37	< 2	158	3.27	< 10	201	< 1	< 10	0.80	19	75	5.34	0.69	2.34	0.06	0.058	< 10	8	< 10
28597	< 0.2	< 0.5	195	546	< 2	57	< 2	103	2.44	< 10	17	< 1	< 10	1.50	23	94	3.82	0.06	1.75	0.07	0.044	< 10	6	< 10
28598	< 0.2	< 0.5	58	557	2	47	< 2	98	3.29	< 10	150	< 1	< 10	0.71	20	79	5.81	0.96	2.58	0.08	0.052	< 10	10	< 10
28599	0.9	1.2	8130	227	< 2	> 10000	2	34	0.45	< 10	9	< 1	< 10	0.34	458	29	30.2	0.10	0.15	0.08	0.045	< 10	3	< 10
29600	0.4	1.1	367	201	2	23	3	186	2.95	< 10	148	< 1	< 10	0.63	8	96	2.90	0.49	1.66	0.19	0.013	< 10	3	< 10
30618	0.9	1.1	781	235	< 2	13	5	234	2.82	< 10	188	< 1	< 10	0.21	10	88	3.65	0.96	1.89	0.08	0.028	< 10	2	< 10
30619	0.9	1.1	775	244	< 2	13	< 2	208	2.87	< 10	187	< 1	< 10	0.23	11	90	3.79	0.58	1.91	0.06	0.029	< 10	3	< 10
30620	0.5	< 0.5	1290	315	< 2	1320	8	27	4.84	< 10	19	< 1	< 10	2.32	44	115	3.66	0.03	3.12	0.32	0.003	< 10	3	< 10
30621	0.4	< 0.5	337	289	4	13	< 2	199	2.80	< 10	146	< 1	< 10	0.30	9	84	3.69	0.42	1.95	0.09	0.018	< 10	3	< 10
30622	0.4	< 0.5	248	326	< 2	16	< 2	143	3.02	< 10	253	< 1	< 10	0.22	9	85	4.04	0.67	2.28	0.06	0.019	< 10	5	< 10
30623	0.5	0.5	370	173	< 2	21	4	114	4.28	< 10	216	< 1	< 10	1.80	10	79	3.34	0.86	1.65	0.30	0.036	< 10	4	< 10
30624	2.4	2.0	1940	209	< 2	165	5	156	4.63	< 10	58	< 1	< 10	1.70	26	75	5.34	0.93	2.02	0.22	0.043	< 10	5	< 10
30625	1.2	0.8	886	351	2	96	8	145	4.60	< 10	109	< 1	< 10	1.69	18	79	5.16	1.09	2.28	0.22	0.027	< 10	8	< 10
30626	2.1	1.7	1390	327	< 2	88	3	134	3.48	< 10	134	< 1	< 10	0.35	15	102	4.47	1.05	1.99	0.12	0.018	< 10	7	< 10
30627	0.9	0.7	580	228	3	44	< 2	82	2.82	< 10	346	< 1	< 10	0.09	12	99	3.15	0.87	1.57	0.06	0.022	< 10	5	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27954	17	0.03	22	< 10	3	3	0.674
27955	9	0.02	16	21	2	3	0.500
27956	30	0.03	28	< 10	1	3	1.238
27957	17	< 0.01	18	< 10	1	2	0.783
27958	23	< 0.01	9	< 10	< 1	2	0.153
27959	28	< 0.01	14	< 10	1	2	0.272
27960	83	< 0.01	7	< 10	< 1	< 1	0.088
27961	80	< 0.01	9	< 10	< 1	1	1.270
27962	51	< 0.01	11	< 10	1	3	1.335
27963	80	0.02	20	< 10	< 1	< 1	0.909
27974	75	0.01	15	< 10	< 1	< 1	0.563
27975	59	0.02	23	< 10	< 1	< 1	0.507
27976	58	0.02	15	< 10	< 1	< 1	0.397
27977	59	0.02	15	< 10	< 1	< 1	0.122
27978	70	0.02	21	< 10	< 1	< 1	0.144
27979	55	0.02	21	< 10	< 1	< 1	0.282
27980	116	< 0.01	7	< 10	< 1	< 1	0.084
27981	54	0.02	24	< 10	< 1	< 1	0.406
27982	57	0.02	30	< 10	< 1	< 1	0.192
27983	50	0.04	69	< 10	< 1	< 1	0.436
28062	14	0.03	59	< 10	< 1	3	3.672
28063	7	0.03	63	< 10	1	3	4.002
28064	6	0.02	71	< 10	1	4	3.022
28065	4	0.03	80	< 10	1	4	2.996
28066	4	0.04	77	< 10	2	4	4.572
28067	6	0.03	96	< 10	2	6	3.966
28068	2	0.03	100	< 10	2	7	5.923
28069	5	0.03	80	< 10	2	4	4.363
28070	82	< 0.01	2	< 10	< 1	< 1	0.168
28071	9	0.03	67	< 10	2	3	3.155
28072	3	0.11	63	< 10	11	6	1.901
28073	3	0.10	42	< 10	17	8	1.873
28074	3	0.18	45	< 10	18	6	0.189
28075	7	0.17	53	< 10	16	6	0.316
28076	14	0.21	63	< 10	16	5	0.230
28077	13	0.20	26	< 10	18	9	0.185
28078	10	0.07	3	< 10	21	22	0.030
28079	12	0.10	11	< 10	20	12	0.215
28080	152	< 0.01	6	< 10	1	< 1	0.080
28081	11	0.07	5	< 10	24	13	0.049
28082	119	0.02	14	< 10	1	< 1	0.177
28083	98	0.03	24	< 10	1	< 1	0.156
28084	123	0.03	22	< 10	< 1	< 1	0.209
28085	128	0.03	19	< 10	< 1	< 1	0.191
28086	124	0.03	19	< 10	< 1	< 1	0.106
28087	108	0.02	20	< 10	< 1	< 1	0.116
28088	111	0.04	26	< 10	< 1	< 1	0.140
28089	118	0.03	18	< 10	< 1	< 1	0.092
28090	71	< 0.01	6	< 10	< 1	< 1	0.061
28091	116	0.02	19	< 10	< 1	< 1	0.148
28092	7	0.07	32	< 10	11	6	0.083
28093	8	0.07	22	< 10	10	6	0.188

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28554	7	0.09	12	< 10	7	11	0.036
28555	11	0.07	20	< 10	8	6	0.236
28522	54	0.02	15	< 10	< 1	< 1	0.028
28523	10	0.15	74	< 10	23	4	0.340
28524	7	0.17	72	< 10	24	4	0.358
28525	7	0.17	76	< 10	23	4	0.321
28526	8	0.16	69	< 10	25	4	0.229
28527	23	0.13	87	< 10	18	3	0.292
28528	70	0.08	44	< 10	11	2	0.059
28529	98	0.03	17	< 10	< 1	< 1	0.036
28530	41	< 0.01	5	< 10	< 1	< 1	0.045
28531	46	0.08	38	< 10	2	2	0.170
28532	46	0.08	35	< 10	2	2	0.074
28533	43	0.06	26	< 10	2	1	0.131
28534	85	0.03	16	< 10	1	< 1	0.070
28535	85	0.03	16	< 10	1	< 1	0.063
28535	51	0.02	20	< 10	< 1	3	3.777
28537	104	0.04	16	< 10	< 1	< 1	0.318
28538	98	0.03	18	< 10	< 1	< 1	0.104
28539	90	0.03	18	< 10	< 1	< 1	0.055
28540	59	0.02	38	< 10	< 1	1	0.437
28551	8	0.02	6	< 10	7	5	0.207
28552	7	0.04	6	< 10	8	4	0.057
28553	13	0.15	92	< 10	5	5	0.010
28554	14	0.15	117	< 10	6	4	0.032
28555	7	0.17	77	< 10	5	6	0.011
28556	9	0.14	108	< 10	8	4	0.063
28557	20	0.06	66	< 10	4	1	0.048
28558	13	0.15	106	< 10	8	4	0.068
28559	15	0.08	54	< 10	14	15	6.762
29500	15	0.08	16	< 10	4	4	0.772
30518	8	0.09	21	< 10	6	5	0.451
30519	8	0.06	22	< 10	6	5	0.462
30520	59	0.02	37	< 10	< 1	1	0.433
30521	12	0.07	20	< 10	5	4	0.299
30522	11	0.12	32	< 10	9	4	0.107
30523	25	0.12	64	< 10	5	2	0.079
30524	25	0.13	66	< 10	5	3	1.133
30525	28	0.15	66	< 10	6	3	0.618
30526	12	0.14	30	< 10	3	3	0.513
30527	8	0.15	21	< 10	4	2	0.106

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.5	3.3	1160	808	15	30	590	537	0.31	361	263	<1	1430	0.79	8	6	24.8	0.03	0.13	0.04	0.036	74	<1	26
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	0.5	6420	145	330	39	45	55	2.61	104	43	1	20	0.92	15	56	3.58	1.43	1.64	0.12	0.124	<10	6	<10
GXR-4 Cert	4.00	0.660	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.60	7.70	5.60
GXR-2 Meas	17.2	4.1	80	989	<2	15	707	526	3.15	15	1260	1	<10	0.77	10	24	2.13	0.51	0.50	0.15	0.057	30	4	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.7	73	1030	<2	20	95	120	6.81	246	898	<1	<10	0.15	15	84	5.29	0.89	0.40	0.07	0.035	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.9	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2580																					
OREAS 13P Cert			2500																					
27976 Org	5.8	3.7	1190	50	<2	192	41	25	3.47	<10	12	<1	<10	2.28	21	73	1.06	0.02	0.44	0.61	0.005	<10	2	<10
27975 Dup	5.5	3.5	1050	51	<2	185	38	23	3.15	<10	10	<1	<10	2.18	21	71	1.03	0.02	0.42	0.55	0.004	<10	2	<10
28058 Org	3.0	0.8	3030	213	<2	6630	6	44	1.16	<10	6	<1	<10	0.27	164	126	25.1	0.02	1.03	0.03	0.017	<10	2	12
28058 Dup	2.9	0.8	3480	204	<2	6420	5	39	1.11	<10	8	<1	<10	0.28	158	123	23.9	0.01	0.99	0.03	0.016	<10	2	13
28061 Org	<0.2	<0.5	29	388	<2	21	4	66	1.87	<10	57	<1	<10	0.49	6	76	2.49	0.23	1.47	0.04	0.016	<10	1	<10
28061 Dup	<0.2	<0.5	30	396	<2	19	5	58	1.87	<10	57	<1	<10	0.45	6	76	2.50	0.23	1.45	0.04	0.016	<10	2	<10
28065 Org	<0.2	<0.5	108	483	3	11	3	149	2.62	<10	156	<1	<10	0.21	11	84	5.47	0.63	1.93	0.04	0.013	<10	4	<10
28065 Dup	<0.2	<0.5	110	498	3	11	3	152	2.67	<10	156	<1	<10	0.22	11	85	5.54	0.63	1.94	0.04	0.013	<10	4	<10
28994 Org	<0.2	0.8	65	756	<2	48	<2	318	4.11	<10	348	<1	<10	0.58	21	106	6.34	1.10	3.00	0.07	0.080	<10	12	<10
28994 Dup	<0.2	0.7	64	728	<2	47	<2	310	4.01	<10	342	<1	<10	0.56	20	85	6.20	1.08	2.95	0.06	0.059	<10	12	<10
30625 Org	1.3	0.8	872	352	2	100	8	147	4.72	<10	105	<1	<10	1.60	19	80	5.19	1.11	2.31	0.21	0.028	<10	8	<10
30625 Dup	1.2	0.8	924	349	2	98	7	143	4.67	<10	112	<1	<10	1.58	17	79	5.11	1.08	2.25	0.22	0.027	<10	8	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	154		76	151	23	13	0.212
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	76		80	17	11	11	1.913
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	89		45	< 10	11	12	0.036
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	31		169	< 10	7	14	0.018
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
27975 Orig	59	0.02	16	< 10	< 1	< 1	0.405
27975 Dup	57	0.02	15	< 10	< 1	< 1	0.389
28068 Orig	2	0.03	101	< 10	2	7	6.729
28068 Dup	2	0.03	99	< 10	2	7	6.116
28081 Orig	12	0.07	5	< 10	24	13	0.047
28081 Dup	11	0.07	5	< 10	25	13	0.051
28665 Orig	11	0.07	20	< 10	8	6	0.236
28665 Dup	11	0.07	19	< 10	8	6	0.234
28994 Orig	14	0.15	118	< 10	6	4	0.030
28994 Dup	13	0.14	116	< 10	6	4	0.033
30625 Orig	27	0.16	56	< 10	6	3	0.628
30625 Dup	28	0.15	57	< 10	6	3	0.608
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



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Invoice No.: A08-4413 repeats
Invoice Date: 24-Nov-08
Your Reference: DOSSIER 22873

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

93 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT A08-4413 repeats

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is fluid and cursive, written over a horizontal dotted line.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Analyte Symbol	Cu	Ni
Unit Symbol	ppm	ppm
Detection Limit	1	1
Analysis Method	AR-ICP	AR-ICP
28665	14	32
28666	37	41
28667	198	60
28668	60	61
28669		
29000	374	11
30618	759	11
30619	748	11
30620	1430	1460
30621	341	11
30622	260	14

Quality Control

Analyte Symbol	Cu	Ni
Unit Symbol	ppm	ppm
Detection Limit	1	1
Analysis Method	AR-ICP	AR-ICP
GXR-1 Meas	1030	28
GXR-1 Cert	1110	41.0
GXR-4 Meas	5530	40
GXR-4 Cert	5520	42.0
GXR-2 Meas	85	16
GXR-2 Cert	76.0	21.0
GXR-6 Meas	74	20
GXR-6 Cert	66.0	27.0
OREAS 13P Meas	2420	2350
OREAS 13P Cert	2500	2260
Method Blank Method Blank	< 1	< 1
Method Blank Method Blank	< 1	< 1
Method Blank Method Blank	< 1	< 1



Date Submitted: 24-Jul-08

Invoice No.: A08-4400

Invoice Date: 12-Aug-08

Your Reference: DOSSIER #22874

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

56 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4400**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
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Activation Laboratories Ltd. Report: A08-4400

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr		
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm			
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10		
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP			
30538	< 0.2	< 0.5	21	139	< 2	113	16	38	6.17	< 10	155	< 1	< 10	4.03	19	375	2.48	0.58	2.48	0.70	0.009	< 10	5	< 10		
30539	2.4	1.5	1210	285	< 2	1140	26	49	4.66	< 10	36	< 1	< 10	3.71	91	211	6.02	0.08	2.05	0.44	0.006	< 10	5	< 10		
30540	0.5	0.5	1290	346	< 2	1400	14	134	5.25	< 10	20	< 1	< 10	2.70	49	134	4.08	0.04	3.49	0.37	0.003	< 10	3	< 10		
30541	2.6	1.1	1220	215	< 2	503	29	46	5.64	< 10	45	< 1	< 10	4.53	35	294	3.33	0.08	1.71	0.55	0.007	< 10	6	< 10		
30542	1.4	1.3	659	136	< 2	319	25	84	4.26	< 10	134	< 1	< 10	2.09	26	192	3.54	0.53	2.84	0.44	0.014	< 10	7	< 10		
30543	8.9	3.6	3380	205	< 2	1320	32	80	4.22	< 10	18	< 1	< 10	2.72	81	215	5.99	0.18	1.27	0.35	0.018	< 10	4	< 10		
30544	1.5	1.1	488	116	< 2	198	52	31	7.91	< 10	80	< 1	< 10	5.71	15	225	1.53	0.10	0.98	0.78	0.012	< 10	4	< 10		
30545	3.2	1.5	1490	134	< 2	797	59	47	6.19	< 10	35	< 1	< 10	4.38	39	224	3.88	0.15	1.19	0.67	0.015	< 10	3	< 10		
30546	4.5	3.0	1560	249	< 2	851	34	80	4.04	< 10	36	< 1	< 10	1.87	54	280	4.99	0.17	3.39	0.12	0.009	< 10	3	< 10		
30547	7.2	5.6	3160	198	< 2	1730	49	111	1.72	< 10	17	< 1	< 10	1.57	141	226	8.04	0.07	1.61	0.06	0.008	< 10	3	< 10		
30558	5.7	8.0	2380	277	2	1340	36	228	2.31	< 10	24	< 1	< 10	0.32	71	118	7.95	0.25	2.08	0.09	0.018	< 10	5	< 10		
30559	8.2	5.3	4200	183	< 2	2950	28	144	1.17	< 10	25	< 1	< 10	0.49	134	100	12.4	0.10	0.85	0.11	0.028	< 10	3	< 10		
30560	< 0.2	< 0.5	20	185	< 2	13	4	10	0.04	< 10	147	< 1	< 10	9.92	< 1	26	0.12	0.01	5.88	0.04	0.005	< 10	< 1	< 10		
30561	2.2	1.5	705	183	3	90	15	65	1.28	< 10	75	< 1	< 10	0.83	9	218	2.01	0.16	0.65	0.18	0.058	< 10	4	< 10		
30562	1.1	2.0	308	312	2	44	19	96	1.99	< 10	123	< 1	< 10	1.48	9	109	3.19	0.28	1.37	0.22	0.105	< 10	8	< 10		
30563	< 0.2	0.7	37	372	< 2	32	6	59	1.38	< 10	60	< 1	< 10	1.25	9	112	3.36	0.18	1.19	0.16	0.102	< 10	8	< 10		
30564	53.9	39.0	9610	189	4	216	116	586	0.64	< 10	23	< 1	< 10	0.59	17	211	3.07	0.06	0.54	0.06	0.037	< 10	3	< 10		
30565	0.6	0.8	308	450	< 2	41	11	84	1.97	< 10	119	< 1	< 10	1.39	14	106	4.52	0.26	1.62	0.11	0.097	< 10	10	< 10		
30566	0.3	0.5	101	432	< 2	32	7	73	1.78	< 10	109	< 1	< 10	1.34	15	104	4.78	0.25	1.73	0.13	0.108	< 10	8	< 10		
30567	0.2	0.5	110	351	< 2	38	10	83	1.71	< 10	161	< 1	< 10	1.04	15	167	4.61	0.41	1.60	0.15	0.098	< 10	6	< 10		
30568	< 0.2	< 0.5	7	510	2	17	< 2	74	2.30	< 10	62	< 1	< 10	0.86	11	137	4.11	0.22	1.56	0.03	0.006	< 10	5	< 10		
30569	< 0.2	< 0.5	2	401	< 2	7	3	55	2.07	< 10	134	< 1	< 10	0.15	5	125	3.00	0.38	1.35	0.04	0.015	< 10	3	< 10		
30563	< 0.2	< 0.5	2	547	3	7	< 2	65	2.50	< 10	57	< 1	< 10	0.39	7	103	3.87	0.26	2.16	0.04	0.015	< 10	4	< 10		
30564	< 0.2	< 0.5	7	801	< 2	9	< 2	62	2.61	< 10	71	< 1	< 10	1.00	12	96	4.66	0.27	2.04	0.04	0.032	< 10	6	< 10		
30565	< 0.2	< 0.5	8	714	18	9	< 2	108	2.71	< 10	18	< 1	< 10	1.83	17	79	7.13	0.03	1.91	0.04	0.029	< 10	9	< 10		
30566	< 0.2	< 0.5	13	286	4	6	< 2	57	1.71	< 10	62	< 1	< 10	0.08	4	128	2.78	0.27	1.02	0.04	0.004	< 10	< 1	< 10		
30567	< 0.2	< 0.5	399	238	5	49	3	72	1.40	< 10	58	< 1	< 10	0.11	29	158	2.71	0.30	0.88	0.03	0.005	< 10	< 1	< 10		
30568	0.2	0.5	288	254	< 2	65	5	72	1.21	< 10	30	< 1	< 10	0.49	24	168	2.49	0.17	0.65	0.02	0.006	< 10	1	< 10		
30569	< 0.2	< 0.5	4	313	4	16	< 2	35	1.77	< 10	49	< 1	< 10	0.53	8	120	2.38	0.29	1.27	0.03	0.020	< 10	1	< 10		
30560	< 0.2	< 0.5	3	173	< 2	3	3	11	0.03	< 10	85	< 1	< 10	10.5	< 1	45	0.10	< 0.01	6.55	0.02	0.004	< 10	< 1	< 10		
30541	7.2	10.0	6360	458	< 2	1490	134	703	3.68	< 10	30	21	< 1	< 10	3.26	182	268	13	1	0.43	0.32	0.03	0.059	< 10	11	< 10
30542	2.7	11.4	2100	91	< 2	> 10000	20	548	0.75	< 10	19	< 1	< 10	0.99	210	38	32.5	0.12	0.87	0.03	0.010	< 10	2	< 10		
30543	3.2	30.1	2050	379	2	3420	83	2440	2.14	61	18	< 1	< 10	1.81	255	48	16.1	0.35	1.67	0.03	0.045	< 10	5	< 10		
30544	< 0.2	0.9	56	644	< 2	90	5	90	2.96	< 10	136	1	< 10	1.62	22	87	6.77	0.70	2.28	0.07	0.080	< 10	10	< 10		
30545	< 0.2	< 0.5	69	574	2	52	2	85	2.18	< 10	57	< 1	< 10	1.71	16	88	5.51	0.30	1.51	0.05	0.049	< 10	8	< 10		
30546	< 0.2	< 0.5	5	454	< 2	11	3	47	2.17	< 10	53	< 1	< 10	1.86	5	123	2.67	0.26	1.94	0.03	0.019	< 10	3	< 10		
30547	< 0.2	0.9	8	551	3	14	10	110	2.60	< 10	142	< 1	< 10	1.71	8	117	3.10	0.44	2.05	0.06	0.032	< 10	6	< 10		
30548	< 0.2	< 0.5	39	635	< 2	11	13	75	2.55	< 10	103	< 1	< 10	1.93	9	94	3.07	0.43	2.00	0.08	0.048	< 10	5	< 10		
30549	< 0.2	< 0.5	3	446	2	9	6	52	2.45	< 10	157	< 1	< 10	0.94	4	110	2.20	0.83	1.95	0.09	0.007	< 10	3	< 10		
30550	0.8	1.5	8230	280	< 2	> 10000	< 2	38	0.49	< 10	21	< 1	< 10	0.39	451	29	30.5	0.11	0.18	0.11	0.048	< 10	3	< 10		
51005	2.7	1.7	1120	239	< 2	1180	80	77	3.85	< 10	16	< 1	< 10	2.07	52	169	4.69	0.08	3.55	0.15	0.006	< 10	2	< 10		
51006	8.4	9.8	2860	281	< 2	1510	140	279	3.80	< 10	14	< 1	< 10	2.39	103	461	5.46	0.05	3.16	0.16	0.006	< 10	3	< 10		
51007	10.7	4.1	4410	393	< 2	2050	118	115	3.84	< 10	14	< 1	< 10	2.48	102	331	6.03	0.06	3.52	0.17	0.007	< 10	4	< 10		
51008	16.3	4.9	5370	253	< 2	1240	109	85	4.22	< 10	11	< 1	< 10	3.50	76	250	4.52	0.04	1.92	0.31	0.010	< 10	4	< 10		
51009	7.2	3.2	3050	187	< 2	1320	147	55	6.10	< 10	12	< 1	< 10	4.78	83	255	3.94	0.03	1.83	0.70	0.010	< 10	5	< 10		
51010	0.2	< 0.5	45	152	< 2	18	13	9	0.06	< 10	67	< 1	< 10	8.88	1	29	0.11	0.01	5.24	0.03	0.006	< 10	< 1	< 10		
51011	16.8	7.1	6890	182	< 2	2240	129	107	4.70	< 10	11	< 1	< 10	3.39	168	179	6.66	0.02	1.67	0.45	0.011	< 10	4	< 10		
51012	9.9	7.5	4490	106	< 2	1290	128	98	5.30	< 10	13	< 1	< 10	3.94	97	131	3.64	0.03	1.03	0.53	0.017	< 10	3	< 10		
51013	8.2	6.0	3180	125	< 2	1360	95	103	4.35	< 10	10	< 1	< 10	3.63	85	79	4.42	0.02	0.85	0.44	0.008	< 10	6	< 10		
51014	8.9	7.1	4330	137	< 2	1050	134	142	5.50	< 10	18	< 1	< 10	4.02	81	102	4.99	0.06	1.11	0.53	0.013	< 10	4	< 10		
51045	0.5	3.8	282	955	3	27	177	272	3.01	< 10	86	< 1	< 10	1.43	28	89	6.03	0.28	2.63	0.05	0.090	< 10	10	< 10		
51046	< 0.2	0.7	44	907	2	16	21	134	3.42	< 10	101	< 1	< 10	1.40	18	76	5.47	0.46	2.58	0.						

Activation Laboratories Ltd. Report: A08-4400

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
51047	< 0.2	0.7	35	858	< 2	11	22	116	3.00	< 10	64	< 1	< 10	1.89	13	70	4.38	0.26	2.52	0.05	0.061	< 10	8	< 10
51048	< 0.2	< 0.5	9	419	4	9	4	51	1.61	< 10	64	< 1	< 10	1.08	3	167	2.10	0.28	1.81	0.04	0.008	< 10	2	< 10
51049	< 0.2	< 0.5	3	423	< 2	8	4	52	1.60	< 10	58	< 1	< 10	0.45	3	117	2.30	0.28	1.70	0.03	0.007	< 10	2	< 10
51050	0.9	1.7	8570	324	< 2	> 10000	3	45	0.47	< 10	4	< 1	< 10	0.39	485	34	32.9	0.11	0.18	0.06	0.050	< 10	4	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30638	72	0.11	63	< 10	1	< 1	0.039
30639	70	0.06	42	< 10	1	3	2.349
30640	69	0.03	42	< 10	< 1	1	0.457
30641	83	0.04	37	< 10	2	2	0.982
30642	46	0.12	53	< 10	4	3	0.922
30643	27	0.08	38	< 10	4	4	2.674
30644	58	0.04	23	< 10	2	1	0.255
30645	50	0.05	31	< 10	2	3	1.401
30646	15	0.07	35	< 10	1	2	1.115
30647	10	0.05	26	< 10	2	5	6.064
30658	9	0.09	56	< 10	5	4	3.078
30659	8	0.07	34	< 10	5	5	3.698
30660	95	< 0.01	1	< 10	< 1	< 1	0.093
30661	12	0.14	49	< 10	8	5	0.318
30662	18	0.17	86	< 10	9	3	0.186
30663	10	0.20	101	< 10	11	3	0.123
30664	5	0.07	32	< 10	4	2	1.579
30665	14	0.19	116	< 10	17	5	0.246
30666	12	0.19	110	< 10	14	5	0.174
30667	10	0.16	114	< 10	12	5	0.230
30668	10	0.14	16	< 10	23	15	0.010
30669	6	0.07	6	< 10	26	18	0.005
30670	4	0.12	15	< 10	41	32	0.019
30671	19	0.15	28	< 10	29	18	0.053
30672	7	0.20	37	< 10	31	19	0.191
30673	3	0.02	2	< 10	29	19	0.168
30674	3	0.02	2	< 10	18	19	0.461
30675	2	0.02	4	< 10	12	9	0.334
30676	3	0.03	10	< 10	18	15	0.013
30677	69	< 0.01	1	< 10	< 1	< 1	0.080
30678	11	0.05	64	< 10	4	4	4.116
30679	8	0.01	14	< 10	2	8	5.927
30680	9	0.05	39	< 10	5	14	6.341
30681	12	0.16	70	< 10	14	8	0.304
30682	12	0.12	47	< 10	19	16	0.213
30683	7	0.07	13	< 10	21	29	0.028
30684	16	0.14	27	< 10	21	20	0.029
30685	14	0.15	28	< 10	19	7	0.069
30686	10	0.08	3	< 10	14	34	0.016
30687	18	0.10	54	< 10	15	16	6.361
51005	25	0.04	25	< 10	< 1	2	1.041
51006	24	0.03	26	< 10	< 1	2	1.927
51007	18	0.04	29	< 10	1	2	1.982
51008	58	0.04	29	< 10	1	2	1.828
51009	87	0.03	34	< 10	1	2	1.514
51010	81	< 0.01	1	< 10	< 1	< 1	0.039
51011	63	0.02	26	< 10	< 1	2	2.764
51012	70	0.02	21	< 10	1	1	1.889
51013	54	0.02	26	< 10	1	2	2.248
51014	68	0.05	43	< 10	1	2	2.429
51045	17	0.31	72	< 10	20	11	0.435
51046	18	0.31	77	< 10	20	9	0.036

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
51047	17	0.24	47	< 10	25	11	0.059
51048	6	0.06	2	< 10	40	36	0.018
51049	6	0.07	2	< 10	35	33	0.009
51050	14	0.12	60	< 10	16	16	11.03

Activation Laboratories Ltd. Report: A08-4400

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.4	3.2	1130	779	15	34	984	521	0.29	370	221	<1	1420	0.79	9	6	24.8	0.02	0.13	0.05	0.038	76	1	26
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	0.6	6310	139	325	40	43	54	2.45	99	30	1	13	0.94	15	54	3.47	1.37	1.62	0.12	0.123	<10	6	<10
GXR-4 Cert	4.00	0.660	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.4	4.7	85	1020	<2	17	758	557	3.19	13	1270	1	<10	0.84	10	27	2.28	0.96	0.55	0.24	0.061	33	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.80	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	66	972	<2	24	94	117	6.22	250	82	<1	<10	0.16	14	83	5.46	0.87	0.40	0.11	0.034	<10	20	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2880			2490											5.68							
OREAS 13P Cert			2500			2280											7.58							
30655 Ong	0.7	0.5	324	451	<2	40	12	85	1.54	<10	119	<1	<10	1.38	14	111	4.49	0.26	1.81	0.11	0.097	<10	10	<10
30655 Dup	0.6	0.7	292	449	<2	41	11	83	2.01	<10	119	<1	<10	1.39	14	107	4.54	0.26	1.83	0.12	0.098	<10	10	<10
30642 Ong	2.6	11.1	2120	91	<2	>10000	21	644	0.75	<10	22	<1	<10	0.99	210	37	32.5	0.12	0.68	0.03	0.010	<10	2	<10
30642 Dup	2.7	11.8	2080	90	<2	>10000	19	848	0.74	<10	18	<1	<10	0.99	210	36	32.5	0.12	0.68	0.03	0.010	<10	2	<10
51005 Ong	7.1	3.4	3030	185	<2	1330	145	55	6.10	<10	12	<1	<10	4.74	54	254	3.94	0.03	1.63	0.71	0.010	<10	5	<10
51005 Dup	7.2	3.0	3080	189	<2	1320	148	55	6.10	<10	12	<1	<10	4.83	52	264	3.94	0.03	1.64	0.70	0.010	<10	5	<10
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	7	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	9	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	152		74	154	23	13	0.208
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	71		81	17	11	11	1.911
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	93		60	< 10	11	12	0.039
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	29		172	< 10	6	14	0.018
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
30665 Orig	14	0.15	115	< 10	17	5	0.246
30665 Dup	14	0.15	117	< 10	17	5	0.247
30642 Orig	8	0.01	14	< 10	2	8	4.758
30642 Dup	7	0.01	14	< 10	2	9	7.096
51005 Orig	87	0.03	34	< 10	1	2	1.504
51005 Dup	89	0.03	34	< 10	1	2	1.524
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 24-Jul-08
Invoice No.: A08-4415
Invoice Date: 13-Aug-08
Your Reference: DOSSIER 22897

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

101 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4415**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A08-4415

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
24563	8.6	8.0	43<0	490	<2	1140	151	443	3.15	<10	11	<1	<10	1.50	55	219	6.45	0.04	3.00	0.07	0.008	<10	2	<10
24564	12.0	7.1	6400	559	<2	1090	152	385	3.26	<10	11	<1	<10	2.21	51	341	7.06	0.03	3.48	0.07	0.008	<10	3	<10
24565	20.4	17.3	>10000	256	<2	2700	159	584	2.25	<10	8	<1	<10	1.81	197	180	10.0	0.03	1.55	0.11	0.012	<10	4	<10
24566	10.8	16.8	6250	351	<2	2210	115	730	2.27	<10	13	<1	<10	1.47	72	148	8.21	0.03	2.27	0.09	0.005	<10	3	<10
24567	4.3	5.1	2680	339	<2	1250	66	312	2.83	<10	12	<1	<10	1.39	73	286	6.98	0.03	3.15	0.10	0.006	<10	3	<10
24568	2.5	3.7	1640	215	<2	934	103	315	2.82	<10	15	<1	<10	1.63	57	222	5.06	0.05	2.85	0.08	0.006	<10	2	<10
24569	3.2	1.3	2250	414	<2	825	53	125	2.28	<10	17	<1	<10	1.62	72	161	5.70	0.04	2.35	0.08	0.018	<10	4	<10
24670	0.6	<0.5	1320	330	<2	1430	8	32	4.88	<10	0.8	<1	<10	2.56	48	126	3.99	0.03	3.36	0.32	0.003	<10	3	<10
24671	<0.2	0.6	135	503	<2	55	3	59	2.44	<10	74	<1	<10	2.16	28	76	6.09	0.11	1.55	0.12	0.051	<10	9	<10
24672	<0.2	0.5	169	574	<2	47	10	60	2.66	<10	36	<1	<10	2.69	29	76	6.01	0.06	1.62	0.21	0.052	<10	11	<10
24585	<0.2	<0.5	84	781	<2	27	2	87	3.81	<10	131	1	<10	1.08	19	87	5.83	0.88	3.30	0.09	0.079	<10	11	<10
24586	0.2	0.6	348	477	2	38	3	101	2.40	<10	84	1	<10	0.70	15	96	4.81	0.37	2.20	0.04	0.019	<10	5	<10
24587	<0.2	<0.5	128	491	<2	52	3	52	2.45	<10	12	<1	<10	2.38	23	72	4.24	0.04	1.60	0.22	0.039	<10	10	<10
24588	<0.2	0.5	104	544	<2	48	4	57	2.83	<10	26	<1	<10	2.71	26	94	4.80	0.10	1.75	0.20	0.034	<10	11	<10
24589	<0.2	<0.5	22	483	3	25	4	106	2.67	<10	124	<1	<10	0.57	19	71	5.10	0.74	2.46	0.04	0.033	<10	8	<10
24590	0.5	<0.5	1390	328	<2	1460	7	31	4.94	<10	18	<1	<10	2.51	50	124	3.96	0.03	3.32	0.32	0.004	<10	3	<10
24591	<0.2	0.6	90	493	<2	49	3	103	2.36	<10	53	<1	<10	2.06	28	60	5.26	0.25	1.72	0.03	0.059	<10	8	<10
26644	10.0	9.4	9100	551	2	42	27	1640	2.26	<10	18	<1	<10	0.73	61	74	6.79	0.16	1.62	0.07	0.042	<10	6	<10
26845	<0.2	<0.5	134	386	3	17	6	79	1.87	<10	51	<1	<10	0.28	6	116	2.38	0.23	1.39	0.03	0.007	<10	2	<10
26846	<0.2	<0.5	90	218	<2	26	2	27	1.63	<10	11	<1	<10	1.46	10	143	1.82	0.03	0.65	0.16	0.023	<10	5	<10
26613	13.2	8.0	2440	193	<2	96	24	130	3.09	<10	53	<1	<10	0.30	18	104	3.57	0.24	2.79	0.07	0.042	<10	6	<10
26514	8.3	5.2	1450	206	<2	72	18	140	3.00	<10	31	1	20	0.28	13	105	3.24	0.18	2.73	0.07	0.033	<10	6	<10
26515	11.9	6.8	3200	403	<2	162	16	208	3.67	<10	50	1	<10	0.39	19	86	5.87	0.25	3.87	0.07	0.032	<10	9	<10
26516	2.9	48.8	1300	810	<2	491	104	2930	3.98	<10	11	<1	<10	0.49	251	59	13.8	0.13	4.48	0.02	0.029	<10	12	<10
26517	12.1	4.3	9360	627	<2	351	117	267	3.05	<10	4	<1	<10	1.39	674	55	19.2	0.02	2.92	0.01	0.032	<10	9	<10
26518	5.8	1.4	3080	392	<2	212	34	110	2.24	<10	16	<1	<10	0.83	181	61	8.03	0.11	2.14	0.03	0.030	<10	8	<10
26519	1.2	2.0	619	526	<2	106	30	153	2.18	<10	17	<1	<10	1.80	28	113	4.52	0.08	2.07	0.05	0.030	<10	7	<10
26520	0.5	0.8	1300	333	<2	1440	10	32	4.66	<10	18	<1	<10	2.59	48	127	4.02	0.03	3.40	0.33	0.004	<10	3	<10
26521	<0.2	<0.5	58	291	2	17	25	75	1.68	<10	40	<1	<10	0.70	9	88	2.51	0.14	1.21	0.04	0.014	<10	4	<10
26522	<0.2	<0.5	27	223	3	13	5	52	1.05	<10	32	<1	<10	1.16	6	116	1.93	0.11	0.88	0.02	0.023	<10	2	<10
26633	<0.2	<0.5	10	217	3	7	2	50	1.86	<10	37	1	<10	0.05	3	64	2.11	0.15	1.62	0.01	0.004	<10	1	<10
26534	<0.2	<0.5	158	314	3	31	4	72	2.35	<10	35	1	<10	0.08	4	104	3.05	0.16	3.17	0.02	0.006	<10	1	<10
26535	11.6	2.0	6710	679	<2	237	17	164	3.75	<10	11	<1	89	0.27	27	56	8.68	0.05	4.62	0.01	0.056	<10	7	<10
26536	32.4	35.6	>10000	234	<2	6200	117	892	0.64	<10	5	<1	<10	0.19	862	59	39.3	0.07	0.41	0.01	0.021	10	1	17
26537	21.9	22.2	>10000	130	<2	9030	135	448	0.23	<10	6	<1	<10	0.14	351	31	44.1	0.03	0.21	<0.01	0.014	11	1	12
26538	5.7	4.1	5230	60	<2	9650	76	87	0.05	<10	4	<1	<10	0.07	446	23	37.4	<0.01	0.07	<0.01	0.004	<10	<1	<10
26539	11.8	9.1	>10000	83	<2	>10000	20	188	0.25	<10	5	<1	<10	0.09	451	62	45.0	<0.01	0.35	<0.01	0.008	11	<1	10
26540	0.5	0.7	1520	338	<2	1520	10	32	5.13	<10	20	<1	<10	2.64	53	129	4.31	0.03	3.44	0.34	0.003	<10	3	<10
26641	1.3	2.2	4180	1010	<2	432	8	134	5.43	<10	19	1	<10	0.19	36	312	13.4	0.16	7.64	0.01	0.018	<10	26	16
26542	2.5	1.8	4480	859	<2	285	99	217	3.33	23	20	1	11	0.31	94	194	9.13	0.28	4.07	0.04	0.030	<10	16	14
26557	<0.2	<0.5	125	169	<2	275	<2	30	3.20	<10	59	<1	<10	1.61	35	170	2.85	0.17	3.02	0.10	0.012	<10	2	<10
26558	<0.2	<0.5	454	220	<2	209	<2	29	4.08	<10	23	<1	<10	2.62	29	136	2.93	0.06	2.98	0.16	0.008	<10	2	<10
26559	<0.2	<0.5	132	294	<2	83	2	23	1.81	<10	32	<1	<10	1.60	23	78	3.22	0.03	1.66	0.15	0.047	<10	7	<10
26560	<0.2	<0.5	8	107	<2	4	9	10	0.03	<10	93	<1	<10	9.14	<1	46	0.10	0.01	6.02	0.02	0.005	<10	<1	<10
26561	<0.2	<0.5	64	117	<2	171	<2	9	1.45	<10	44	<1	<10	1.39	20	111	1.03	0.03	0.74	0.13	0.003	<10	2	<10
26562	<0.2	<0.5	163	286	<2	64	3	26	2.51	<10	24	<1	<10	2.51	23	92	2.91	0.03	1.24	0.16	0.036	<10	6	<10
26663	<0.2	<0.6	213	487	<2	42	2	31	3.46	<10	78	<1	<10	3.71	23	88	4.63	0.11	1.38	0.38	0.052	<10	12	<10
26564	0.2	<0.5	296	420	<2	32	2	31	2.44	<10	87	<1	<10	2.84	21	83	3.78	0.14	1.11	0.28	0.052	<10	10	<10
26565	0.4	0.5	460	451	<2	38	3	32	3.21	<10	19	<1	<10	3.78	25	66	4.13	0.05	1.08	0.26	0.048	<10	10	<10
26566	<0.2	<0.5	136	459	<2	36	2	38	2.37	<10	30	<1	<10	2.33	26	79	4.77	0.11	1.38	0.21	0.054	<10	10	<10
26577	<0.2	<0.5	90	78	<2	44	4	11	5.14	<10	25	<1	<10	4.09	7	149	0.88	0.06	0.67	0.74	0.010	<10	3	<10
26578	<0.2	<0.5	206	213	<2	46	<2	14	1.16	<10	10	<1	<10	1.47	13	97	1.49	0.01	1.00	0.16	0.022	<10	6	<10

Activation Laboratories Ltd. Report: A08-4415

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26579	< 0.2	< 0.5	106	279	< 2	54	2	19	1.09	< 10	25	< 1	< 10	1.47	18	102	2.51	0.03	0.97	0.16	0.032	< 10	8	< 10
26580	< 0.2	< 0.5	9	223	< 2	5	31	12	0.04	< 10	72	< 1	< 10	11.6	1	18	0.11	0.01	7.77	0.02	0.010	< 10	< 1	< 10
26581	< 0.2	< 0.5	293	438	< 2	45	3	38	2.24	< 10	33	< 1	< 10	2.47	29	71	4.53	0.03	1.33	0.17	0.057	< 10	9	< 10
26582	< 0.2	< 0.5	129	134	< 2	80	4	19	2.50	< 10	13	< 1	< 10	2.32	13	140	1.28	0.03	0.82	0.31	0.003	< 10	3	< 10
26583	< 0.2	< 0.5	44	480	< 2	88	< 2	23	4.04	< 10	7	< 1	< 10	4.58	27	213	3.49	0.01	2.65	0.04	0.007	< 10	9	< 10
26584	< 0.2	< 0.5	5	725	< 2	168	< 2	42	5.04	< 10	7	< 1	< 10	4.25	28	442	5.28	0.01	4.75	0.05	0.003	< 10	8	< 10
26585	< 0.2	< 0.5	40	609	< 2	129	< 2	35	3.88	< 10	7	< 1	< 10	3.56	24	398	4.90	0.01	4.02	0.07	0.005	< 10	8	< 10
26586	< 0.2	< 0.5	161	358	< 2	60	2	20	2.66	< 10	11	< 1	< 10	2.78	17	199	2.44	0.01	1.72	0.28	0.016	< 10	8	< 10
26507	0.3	0.6	175	232	< 2	130	57	41	5.39	< 10	17	< 1	< 10	4.90	13	234	1.87	0.02	1.28	0.58	0.009	< 10	4	< 10
26508	0.2	< 0.5	106	192	< 2	106	47	24	4.74	< 10	18	< 1	< 10	4.41	12	206	1.41	0.02	1.03	0.62	0.013	< 10	4	< 10
26509	1.1	0.8	275	219	< 2	170	71	43	5.02	< 10	19	< 1	< 10	4.38	19	115	1.82	0.02	0.99	0.54	0.020	< 10	3	< 10
26510	< 0.2	< 0.5	3	184	< 2	2	12	10	0.04	< 10	98	< 1	< 10	9.74	< 1	22	0.06	0.01	5.70	0.02	0.002	< 10	< 1	< 10
26511	0.6	0.8	256	563	< 2	181	55	53	3.96	< 10	15	< 1	< 10	3.64	23	345	4.29	0.02	2.60	0.27	0.007	< 10	5	< 10
26512	4.6	3.4	2960	283	< 2	1150	48	153	2.45	< 10	17	< 1	< 10	2.28	71	133	5.23	0.03	1.32	0.19	0.012	< 10	3	< 10
26513	3.8	2.8	2750	292	< 2	1090	78	129	3.05	< 10	18	< 1	< 10	2.68	72	177	5.22	0.06	1.47	0.21	0.010	< 10	4	< 10
26514	8.8	16.7	8030	119	< 2	1160	81	444	2.32	< 10	12	< 1	< 10	1.67	81	188	6.91	0.09	1.08	0.23	0.010	< 10	3	< 10
26515	7.0	6.9	5620	190	< 2	2680	151	219	3.14	< 10	10	< 1	< 10	1.63	185	193	14.2	0.19	1.27	0.29	0.008	< 10	4	< 10
26516	1.9	1.5	1510	207	< 2	535	75	83	4.42	< 10	28	< 1	< 10	3.53	55	162	4.13	0.06	1.13	0.69	0.013	< 10	5	< 10
26537	8.31	15.1	3050	453	< 2	686	486	412	3.59	< 10	21	1	12	12.8	71	71	8.75	0.35	2.25	0.26	0.081	< 10	8	26
26538	11.4	16.0	4340	1140	< 2	981	999	754	4.25	< 10	15	1	22	0.54	75	50	14.0	0.12	4.14	0.05	0.035	< 10	12	27
26539	15.8	36.9	> 10000	952	< 2	1680	554	1600	3.44	< 10	7	< 1	< 10	0.49	110	65	16.0	0.04	3.01	0.03	0.033	< 10	8	25
26540	0.5	0.7	1350	328	< 2	1370	11	35	4.88	< 10	19	< 1	< 10	2.52	49	122	3.90	0.03	3.27	0.33	0.003	< 10	3	< 10
26541	17.1	41.6	> 10000	791	< 2	1750	182	1740	2.75	< 10	5	< 1	< 10	0.53	403	46	22.1	0.04	2.39	0.02	0.031	< 10	9	32
26542	37.9	39.7	> 10000	581	< 2	2110	240	1580	2.39	< 10	7	< 1	< 10	0.73	434	84	22.2	0.12	1.48	0.09	0.054	< 10	5	21
26543	44.2	25.0	> 10000	327	< 2	4350	208	955	1.40	< 10	4	< 1	< 10	0.46	373	58	28.1	0.04	0.74	0.05	0.032	< 10	2	25
26544	40.5	75.4	> 10000	406	< 2	3680	251	2650	2.26	< 10	7	< 1	< 10	1.02	145	33	25.1	0.11	1.25	0.13	0.030	< 10	3	28
26545	44.1	28.3	> 10000	396	< 2	1910	309	1110	2.99	< 10	7	< 1	< 10	1.09	355	61	18.4	0.12	1.15	0.22	0.033	< 10	3	19
26546	23.4	53.0	> 10000	534	< 2	1660	238	2540	2.98	< 10	9	< 1	< 10	0.69	180	65	17.0	0.16	2.98	0.09	0.032	< 10	8	35
26547	21.4	35.5	> 10000	435	< 2	2910	166	1550	2.14	< 10	6	< 1	< 10	0.50	351	51	24.7	0.08	1.19	0.08	0.028	< 10	4	22
26548	23.3	34.3	> 10000	256	< 2	2650	130	1500	1.67	< 10	7	< 1	< 10	0.46	129	77	18.7	0.20	1.15	0.07	0.038	< 10	4	19
26549	4.7	2.1	2080	216	< 2	92	41	114	1.42	< 10	16	< 1	< 10	0.92	20	66	3.90	0.05	1.10	0.06	0.082	< 10	4	11
26550	0.9	1.9	9030	272	< 2	> 10000	7	43	0.45	< 10	4	< 1	< 10	0.38	501	33	33.2	0.11	0.19	0.07	0.049	< 10	3	< 10
26551	26.6	1.5	4250	123	< 2	64	22	57	0.80	< 10	10	< 1	< 10	0.62	17	72	3.31	0.03	0.68	0.05	0.083	< 10	3	12
26552	5.0	1.5	3290	143	< 2	72	10	85	1.34	< 10	50	< 1	< 10	0.67	22	87	4.16	0.14	1.20	0.06	0.105	< 10	5	11
26553	0.5	0.7	397	435	< 2	54	4	55	2.21	< 10	29	< 1	< 10	1.99	30	68	5.09	0.10	1.75	0.10	0.051	< 10	10	< 10
26554	0.8	1.1	574	493	< 2	94	11	51	2.67	< 10	12	< 1	< 10	2.48	29	89	4.74	0.05	1.59	0.23	0.041	< 10	11	< 10
26555	< 0.2	0.5	88	811	< 2	33	2	113	3.04	< 10	103	< 1	< 10	1.11	19	63	5.50	0.57	2.78	0.08	0.077	< 10	11	< 10
26556	< 0.2	0.5	121	459	< 2	11	2	105	3.55	< 10	218	< 1	< 10	0.31	17	55	5.63	0.98	2.91	0.06	0.079	< 10	10	< 10
26557	< 0.2	0.6	72	793	< 2	10	< 2	126	3.83	< 10	165	1	< 10	0.99	15	43	6.41	0.81	3.47	0.08	0.089	< 10	12	< 10
26803	0.4	< 0.5	192	270	< 2	279	11	34	2.81	< 10	14	< 1	< 10	1.79	39	210	3.09	0.08	2.79	0.11	0.009	< 10	4	< 10
26804	0.3	0.5	130	409	< 2	278	15	44	3.07	< 10	14	< 1	< 10	2.87	37	229	3.92	0.07	3.25	0.07	0.011	< 10	4	< 10
26805	0.4	< 0.5	217	354	< 2	309	7	38	2.72	< 10	16	< 1	< 10	2.21	39	169	3.64	0.08	3.13	0.10	0.012	< 10	3	< 10
26806	1.3	1.0	531	208	< 2	539	2	41	2.50	< 10	8	< 1	< 10	0.63	46	256	3.08	0.02	3.51	0.05	0.006	< 10	1	< 10
26807	1.5	0.9	751	189	< 2	305	8	43	2.34	< 10	12	< 1	< 10	1.37	29	172	2.35	0.05	2.31	0.10	0.008	< 10	2	< 10
26808	5.9	3.0	2640	228	< 2	718	32	70	3.37	< 10	11	< 1	< 10	2.33	52	155	3.15	0.04	2.01	0.16	0.012	< 10	2	< 10
26809	2.0	1.0	755	191	< 2	352	15	41	3.13	< 10	9	< 1	< 10	1.91	32	217	2.61	0.03	2.49	0.12	0.006	< 10	2	< 10
26810	< 0.2	< 0.5	21	194	< 2	8	19	11	0.05	< 10	69	< 1	< 10	10.9	1	19	0.06	0.01	6.60	0.02	0.015	< 10	< 1	< 10
26811	3.9	3.4	1720	146	< 2	233	27	72	3.59	< 10	11	< 1	< 10	2.75	26	125	2.02	0.03	1.40	0.25	0.016	< 10	2	< 10
26812	2.1	0.8	1080	110	< 2	302	40	25	4.45	< 10	11	< 1	< 10	3.76	24	96	1.46	0.02	0.84	0.39	0.009	< 10	3	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24563	28	0.03	26	< 10	1	2	1.614
24564	14	0.03	30	< 10	1	2	1.773
24565	34	0.02	31	< 10	1	3	5.402
24566	17	0.03	27	< 10	1	3	3.020
24567	14	0.03	29	< 10	1	2	2.572
24568	18	0.03	22	< 10	1	2	1.169
24569	15	0.06	44	< 10	2	2	1.442
24570	64	0.02	40	< 10	< 1	1	0.463
24571	25	0.19	154	< 10	8	2	0.169
24572	28	0.21	163	< 10	10	3	0.347
24585	24	0.20	87	< 10	15	6	0.147
24586	12	0.13	41	< 10	20	16	0.313
24587	38	0.11	106	< 10	7	2	0.148
24588	41	0.12	107	< 10	10	3	0.210
24589	8	0.18	59	< 10	12	11	0.055
24590	62	0.02	40	< 10	< 1	1	0.454
24591	10	0.26	142	< 10	12	3	0.275
26844	13	0.11	39	< 10	17	6	2.356
26845	8	0.05	7	< 10	17	10	0.039
26846	22	0.07	46	< 10	4	1	0.092
26813	12	0.07	88	< 10	3	1	0.377
26814	15	0.07	78	< 10	3	1	0.207
26815	24	0.07	93	< 10	6	2	0.536
26816	5	0.12	101	< 10	11	4	4.116
26817	2	0.13	103	< 10	12	5	9.854
26818	5	0.17	69	< 10	21	14	2.832
26819	14	0.10	81	< 10	6	3	0.348
26820	65	0.02	41	< 10	< 1	1	0.457
26821	9	0.13	19	< 10	19	12	0.068
26822	3	0.08	12	< 10	17	15	0.033
26833	2	0.01	1	< 10	16	13	0.016
26834	3	0.01	5	< 10	19	16	0.025
26835	1	0.10	74	< 10	20	5	1.117
26836	2	0.04	107	< 10	2	8	8.404
26837	1	0.02	78	< 10	1	9	4.475
26838	1	< 0.01	69	< 10	< 1	7	7.494
26839	1	0.01	79	< 10	1	9	4.323
26840	67	0.02	42	< 10	< 1	1	0.490
26841	3	0.11	160	< 10	10	4	1.322
26842	5	0.14	95	< 10	15	9	2.250
26857	66	0.06	36	< 10	1	1	0.105
26858	115	0.04	22	< 10	1	1	0.089
26859	22	0.12	82	< 10	7	2	0.151
26860	48	< 0.01	1	< 10	< 1	< 1	0.076
26861	14	0.06	16	< 10	1	1	0.096
26862	30	0.11	66	< 10	5	1	0.322
26863	52	0.16	126	< 10	10	2	0.304
26864	37	0.15	108	< 10	9	2	0.251
26865	44	0.17	103	< 10	8	2	0.508
26866	40	0.22	126	< 10	10	3	0.206
26877	102	0.03	21	< 10	1	1	0.053
26878	11	0.06	36	< 10	2	1	0.124

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26576	9	0.10	70	< 10	5	2	0.289
26580	67	< 0.01	3	< 10	< 1	< 1	0.109
26581	35	0.22	112	< 10	10	3	0.828
26582	43	0.03	22	< 10	1	1	0.153
26583	17	0.09	93	< 10	4	2	0.101
26584	19	0.05	68	< 10	3	1	0.047
26585	27	0.07	70	< 10	3	1	0.038
26585	29	0.08	83	< 10	3	1	0.128
26507	93	0.03	26	< 10	1	1	0.125
26508	84	0.03	26	< 10	1	1	0.108
26509	94	0.03	22	< 10	1	1	0.254
26510	80	< 0.01	2	< 10	1	< 1	0.080
26511	46	0.05	53	< 10	1	1	0.193
26512	30	0.04	26	< 10	1	2	2.153
26513	39	0.05	33	< 10	1	2	1.844
26514	28	0.04	27	< 10	1	2	3.199
26515	34	0.05	56	< 10	1	3	6.078
26516	65	0.05	37	< 10	1	1	1.409
26537	33	0.10	121	< 10	6	2	2.091
26538	20	0.11	97	< 10	9	4	2.730
26539	14	0.09	81	< 10	7	4	5.381
26540	61	0.02	39	< 10	< 1	1	0.456
26541	12	0.11	86	< 10	5	5	6.724
26542	11	0.09	121	< 10	5	6	8.406
26543	9	0.05	95	< 10	2	6	7.822
26544	12	0.04	69	< 10	4	6	6.708
26545	15	0.05	108	< 10	3	4	7.720
26546	15	0.11	114	< 10	6	4	6.352
26547	9	0.05	87	< 10	6	6	9.031
26548	9	0.09	121	< 10	4	5	7.448
26549	15	0.10	83	< 10	12	2	0.530
26550	14	0.10	99	< 10	15	17	8.277
26551	10	0.05	94	< 10	12	3	0.538
26552	11	0.13	119	< 10	12	3	0.550
26553	18	0.13	121	< 10	9	3	0.658
26554	32	0.13	114	< 10	7	2	0.356
26555	11	0.19	99	< 10	9	4	0.130
26555	6	0.15	75	< 10	7	5	0.944
26567	14	0.19	77	< 10	10	4	0.698
26503	27	0.04	29	< 10	1	1	0.219
26504	23	0.05	41	< 10	2	1	0.189
26505	18	0.05	37	< 10	1	1	0.240
26506	5	0.03	18	< 10	< 1	1	0.256
26507	23	0.02	17	< 10	1	1	0.217
26508	50	0.02	17	< 10	1	1	0.773
26509	38	0.02	16	< 10	1	1	0.275
26510	95	< 0.01	2	< 10	< 1	< 1	0.096
26511	57	0.02	17	< 10	1	1	0.405
26512	67	0.01	14	< 10	1	1	0.376

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.9	3.3	1190	810	15	38	817	681	0.30	394	210	1	1620	0.84	8	6	25.0	0.02	0.14	0.05	0.040	82	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	0.7	6460	138	344	41	45	70	2.45	165	31	1	14	0.97	15	56	4.00	1.46	1.70	0.128	< 10	6	< 10	< 10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	16.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	19.0	5.0	87	1050	< 2	19	784	576	3.26	14	1400	1	< 10	0.88	10	27	2.00	0.60	0.57	0.25	0.063	37	5	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.2	0.8	76	1050	2	28	102	130	6.58	260	895	1	< 10	0.16	15	91	5.32	0.98	0.43	0.12	0.036	< 10	22	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.9	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2870		2420												6.41							
OREAS 13P Cert			2500		2280												7.58							
24887 Org	< 0.2	0.5	126	491	< 2	52	3	52	2.35	< 10	12	< 1	< 10	2.37	23	72	4.23	0.04	1.55	0.21	0.039	< 10	10	< 10
24887 Dup	< 0.2	< 0.5	130	491	< 2	51	3	51	2.52	< 10	12	< 1	< 10	2.38	23	72	4.25	0.04	1.60	0.23	0.040	< 10	10	< 10
26615 Org	1.3	2.0	646	529	< 2	106	30	156	2.28	< 10	17	< 1	< 10	1.61	28	116	4.52	0.06	2.08	0.06	0.031	< 10	7	< 10
26615 Dup	1.1	1.9	502	522	< 2	106	29	150	2.05	< 10	18	< 1	< 10	1.68	28	110	4.52	0.08	2.05	0.04	0.030	< 10	7	< 10
26642 Org	2.5	1.5	4530	860	< 2	266	57	216	3.32	25	20	1	11	0.31	54	194	5.20	0.28	3.05	0.04	0.030	< 10	16	14
26642 Dup	2.5	1.8	4390	658	< 2	264	60	218	3.34	21	20	1	11	0.32	54	194	5.06	0.28	3.05	0.04	0.030	< 10	16	14
26660 Org	< 0.2	< 0.5	11	215	< 2	5	29	12	0.04	< 10	69	< 1	< 10	11.1	1	19	0.11	0.01	7.51	0.02	0.010	< 10	< 1	< 10
26660 Dup	< 0.2	< 0.5	7	231	< 2	4	32	12	0.04	< 10	74	< 1	< 10	11.9	1	17	0.11	0.01	8.03	0.02	0.010	< 10	< 1	< 10
28643 Org	43.7	24.8	> 10000	322	< 2	4380	203	955	1.38	< 10	4	< 1	< 10	0.45	359	56	28.1	0.04	0.73	0.04	0.031	< 10	2	24
28643 Dup	44.7	25.2	> 10000	332	< 2	4340	212	974	1.42	< 10	4	< 1	< 10	0.48	375	60	28.1	0.04	0.75	0.05	0.032	< 10	2	25
26657 Org	< 0.2	0.6	69	790	< 2	10	< 2	125	3.68	< 10	163	1	< 10	0.58	15	43	5.34	0.80	3.43	0.06	0.087	< 10	11	< 10
26657 Dup	< 0.2	0.6	75	806	< 2	9	< 2	126	3.97	< 10	166	1	< 10	0.60	16	43	5.48	0.82	3.52	0.08	0.092	< 10	12	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	180		79	164	24	14	0.218
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	73		86	17	11	11	1.997
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	100		51	< 10	11	12	0.040
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	31		188	< 10	7	14	0.018
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
24987 Orig	37	0.12	104	< 10	7	2	0.156
24987 Dup	38	0.11	105	< 10	7	2	0.139
28619 Orig	14	0.10	82	< 10	6	3	0.340
28619 Dup	14	0.10	79	< 10	6	3	0.398
28642 Orig	5	0.14	95	< 10	15	9	2.247
28642 Dup	5	0.14	95	< 10	15	9	2.253
26660 Orig	66	< 0.01	3	< 10	< 1	< 1	0.107
26660 Dup	68	< 0.01	3	< 10	< 1	< 1	0.111
28643 Orig	9	0.05	94	< 10	2	6	8.581
28643 Dup	9	0.05	95	< 10	2	6	7.063
26657 Orig	14	0.18	76	< 10	10	4	0.096
26657 Dup	14	0.19	77	< 10	10	4	0.101
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



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Your Reference: DOSSIER 22898

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

92 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4414**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4414

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26647	< 0.2	< 0.5	32	379	< 2	306	< 2	50	3.50	< 10	33	< 1	< 10	2.14	39	143	3.76	0.06	4.47	0.05	0.007	< 10	2	< 10
26648	0.5	< 0.5	39	196	< 2	229	< 2	37	3.76	< 10	17	< 1	< 10	2.49	30	117	2.40	0.03	2.78	0.11	0.016	< 10	2	< 10
26649	< 0.2	< 0.5	51	156	< 2	184	< 2	21	2.83	< 10	9	< 1	< 10	2.47	20	88	1.86	0.01	1.50	0.13	0.006	< 10	2	< 10
26650	0.9	1.8	8930	318	< 2	> 10000	< 2	46	0.48	< 10	4	< 1	< 10	0.41	612	36	33.9	0.11	0.18	0.09	0.052	< 10	4	< 10
26651	< 0.2	< 0.5	117	184	< 2	281	< 2	32	3.46	< 10	11	< 1	< 10	2.26	32	141	2.63	0.02	2.88	0.17	0.015	< 10	2	< 10
26652	< 0.2	< 0.5	26	207	< 2	341	< 2	38	2.77	< 10	29	< 1	< 10	1.18	38	250	3.43	0.08	1.11	0.11	0.013	< 10	3	< 10
26653	< 0.2	0.6	52	352	< 2	194	3	80	4.05	< 10	100	< 1	< 10	2.53	26	564	3.47	0.14	2.81	0.35	0.010	< 10	8	< 10
26654	< 0.2	0.6	66	390	< 2	133	2	30	5.24	< 10	17	< 1	< 10	3.78	19	346	2.96	0.04	2.62	0.36	0.003	< 10	3	< 10
26655	< 0.2	< 0.5	33	496	< 2	153	< 2	36	4.81	19	13	< 1	< 10	3.00	24	576	4.09	0.52	3.43	0.34	0.003	< 10	6	< 10
29124	< 0.2	0.7	309	450	< 2	46	< 2	39	2.23	< 10	16	< 1	< 10	2.44	23	106	3.88	0.06	1.10	0.26	0.063	< 10	6	< 10
29125	< 0.2	1.0	45	895	< 2	11	< 2	80	2.57	< 10	109	< 1	< 10	2.58	19	44	5.73	0.38	1.03	0.27	0.112	< 10	12	< 10
26656	0.4	1.1	542	514	< 2	112	10	118	2.84	< 10	45	< 1	< 10	0.75	14	74	6.58	0.27	1.85	0.06	0.025	< 10	3	< 10
26657	< 0.2	0.9	65	485	4	21	7	102	3.48	< 10	185	< 1	< 10	0.39	13	53	4.70	0.87	2.47	0.09	0.088	< 10	6	< 10
26658	< 0.2	1.0	6	546	7	8	7	103	3.51	< 10	198	< 1	< 10	0.37	14	57	5.21	1.09	2.58	0.08	0.034	< 10	9	< 10
26659	< 0.2	0.8	9	516	< 2	7	6	95	3.69	< 10	164	< 1	< 10	0.30	13	65	4.84	0.87	2.35	0.06	0.088	< 10	7	< 10
26660	0.6	0.9	1620	393	< 2	1490	7	34	5.89	< 10	20	< 1	< 10	2.85	56	196	4.17	0.03	3.69	0.38	0.004	< 10	3	< 10
26641	< 0.2	1.0	6	837	4	8	9	112	3.98	< 10	154	< 1	< 10	0.76	15	38	5.37	1.00	2.68	0.06	0.034	< 10	8	< 10
26642	< 0.2	0.6	16	991	< 2	9	3	79	3.32	< 10	110	< 1	< 10	0.34	16	60	6.87	0.60	2.77	0.06	0.093	< 10	6	< 10
26643	< 0.2	0.8	74	878	< 2	27	5	78	3.38	< 10	120	< 1	< 10	0.39	17	83	5.59	0.62	2.89	0.06	0.093	< 10	7	< 10
26644	< 0.2	< 0.5	13	685	< 2	13	10	92	3.62	< 10	266	< 1	< 10	0.37	18	92	5.85	1.37	2.45	0.06	0.037	< 10	9	< 10
26645	< 0.2	< 0.5	40	717	< 2	10	< 2	104	4.00	< 10	313	< 1	< 10	0.46	15	63	5.72	1.31	2.53	0.10	0.088	< 10	10	< 10
27854	< 0.2	< 0.5	30	82	< 2	31	< 2	8	6.22	< 10	23	< 1	< 10	5.09	6	143	0.87	0.04	0.85	0.85	0.011	< 10	3	< 10
27855	0.2	< 0.5	467	242	< 2	418	< 2	38	2.60	< 10	12	< 1	< 10	1.21	46	71	3.51	0.03	4.08	0.07	0.009	< 10	2	< 10
27856	0.5	< 0.5	790	334	< 2	632	5	43	3.39	< 10	10	< 1	< 10	1.08	51	136	4.71	0.02	4.67	0.11	0.011	< 10	3	< 10
27857	0.8	< 0.5	450	125	< 2	114	5	17	8.08	< 10	23	< 1	< 10	6.20	15	86	1.70	0.06	1.42	0.44	0.006	< 10	2	< 10
27858	< 0.2	< 0.5	412	217	< 2	314	< 2	33	3.43	< 10	9	< 1	< 10	1.47	38	184	3.39	0.02	4.08	0.11	0.006	< 10	2	< 10
27859	< 0.2	< 0.5	363	151	< 2	582	< 2	37	2.92	< 10	6	< 1	< 10	0.14	54	368	5.20	< 0.01	4.72	0.02	0.006	< 10	< 1	< 10
27900	0.9	1.8	9030	316	< 2	> 10000	4	46	0.48	< 10	4	< 1	< 10	0.40	517	26	34.6	0.12	0.18	0.06	0.051	< 10	4	< 10
27501	< 0.2	0.7	112	176	< 2	643	< 2	43	3.08	< 10	6	< 1	< 10	0.07	59	279	5.80	< 0.01	4.98	0.02	0.007	< 10	< 1	< 10
27902	< 0.2	0.5	84	195	< 2	578	< 2	43	3.25	< 10	7	< 1	< 10	0.10	53	133	6.27	< 0.01	5.18	0.02	0.009	< 10	< 1	< 10
27903	< 0.2	0.6	82	196	< 2	481	< 2	41	3.14	< 10	6	< 1	< 10	0.08	60	243	6.20	< 0.01	4.94	0.02	0.007	< 10	< 1	< 10
27924	< 0.2	< 0.5	84	208	< 2	541	< 2	46	4.02	< 10	6	< 1	< 10	0.10	70	282	5.85	< 0.01	6.39	0.02	0.008	< 10	< 1	< 10
27925	< 0.2	0.6	39	270	< 2	552	< 2	52	4.44	< 10	5	< 1	< 10	0.06	59	386	6.00	< 0.01	4.72	0.01	0.005	< 10	1	< 10
27926	< 0.2	0.6	49	302	< 2	566	< 2	54	4.35	< 10	5	< 1	< 10	0.09	69	220	7.99	< 0.01	7.01	0.01	0.010	< 10	1	< 10
27927	< 0.2	0.8	73	319	< 2	593	< 2	63	4.30	< 10	5	< 1	< 10	0.12	89	114	7.55	< 0.01	6.91	0.01	0.011	< 10	< 1	< 10
27928	< 0.2	0.7	90	308	< 2	595	< 2	53	4.15	< 10	6	< 1	< 10	0.10	55	165	6.57	< 0.01	6.39	0.02	0.009	< 10	< 1	< 10
27929	0.3	0.7	116	298	< 2	665	< 2	58	3.67	< 10	6	< 1	< 10	0.18	55	187	6.32	< 0.01	5.61	0.02	0.009	< 10	< 1	< 10
27930	< 0.2	< 0.5	4	183	< 2	14	4	45	0.11	< 10	76	< 1	< 10	9.98	1	46	0.20	< 0.01	5.38	0.02	0.005	< 10	< 1	< 10
27931	< 0.2	< 0.5	11	323	< 2	364	< 2	44	3.17	< 10	7	< 1	< 10	0.61	39	141	3.96	< 0.01	4.71	0.06	0.006	< 10	1	< 10
27932	< 0.2	< 0.5	1	305	< 2	338	< 2	43	3.08	< 10	6	< 1	< 10	0.84	39	149	3.67	< 0.01	4.58	0.06	0.006	< 10	1	< 10
27933	< 0.2	< 0.5	82	211	< 2	308	< 2	35	3.12	< 10	11	< 1	< 10	1.22	34	106	3.16	0.01	3.84	0.11	0.006	< 10	2	< 10
28011	1.8	1.1	10980	181	< 2	48	< 2	44	3.24	< 10	163	< 1	< 10	0.06	11	97	2.93	0.75	2.08	0.08	0.005	< 10	3	< 10
28012	3.8	2.2	3020	155	< 2	240	< 2	84	2.80	< 10	32	< 1	< 10	0.18	39	70	4.25	0.58	2.16	0.10	0.007	< 10	4	< 10
28013	5.3	4.4	3840	121	< 2	476	< 2	91	2.66	< 10	22	< 1	< 10	0.37	55	446	6.60	0.68	2.30	0.18	0.003	< 10	7	< 10
28014	< 0.2	< 0.5	159	376	< 2	89	8	35	4.13	< 10	17	< 1	< 10	3.81	22	96	2.88	0.08	1.35	0.61	0.021	< 10	8	< 10
28015	< 0.2	< 0.5	144	513	< 2	227	3	27	7.51	< 10	19	< 1	< 10	5.01	19	733	3.40	0.03	2.68	0.54	0.002	< 10	5	< 10
28016	< 0.2	< 0.6	29	1250	< 2	73	7	11	0.85	< 10	12	2	< 10	0.33	3	143	0.77	0.19	0.27	0.07	0.009	< 10	2	31
28017	< 0.2	< 0.5	6	512	< 2	8	5	5	0.47	< 10	8	< 1	< 10	0.09	< 1	120	0.33	0.17	0.08	0.04	0.005	< 10	< 1	64
28018	< 0.2	< 0.5	11	514	2	10	5	7	0.65	< 10	7	< 1	< 10	0.08	< 1	136	0.39	0.25	0.06	0.05	0.005	< 10	1	31
28019	3.5	4.7	1560	537	< 2	1260	80	177	4.25	< 10	26	12	< 10	2.37	103	198	6.67	0.67	3.09	0.32	0.018	< 10	3	< 10
28020	0.6	0.7	1310	353	< 2	1450	9	33	5.20	< 10	20	< 1	< 10	2.74	50	198	4.10	0.53	3.55	0.36	0.003	< 10	3	< 10
28021	2.6	2.5	1640	335	< 2	1340	28	109	3.20															

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
28542	2.7	6.2	1350	284	< 2	1180	78	104	3.59	< 10	9	< 1	< 10	2.74	59	171	3.66	0.05	2.21	0.18	0.006	< 10	3	11
28543	4.3	3.2	2460	443	< 2	1960	71	105	3.26	< 10	9	< 1	< 10	1.60	200	284	8.08	0.08	4.32	0.06	0.006	< 10	3	< 10
28544	2.3	3.0	1540	470	< 2	1300	64	113	3.14	< 10	7	< 1	< 10	1.89	104	397	8.70	0.04	4.01	0.06	0.008	< 10	3	< 10
28545	3.3	4.8	3700	470	< 2	1240	63	151	3.25	14	8	< 1	< 10	3.21	59	272	7.04	0.05	3.37	0.08	0.005	< 10	5	< 10
28546	1.3	9.2	778	498	< 2	775	169	320	4.01	< 10	9	< 1	< 10	2.72	55	207	5.26	0.05	2.83	0.15	0.005	< 10	4	< 10
28547	1.8	3.5	1980	315	< 2	1450	105	116	3.50	< 10	9	< 1	< 10	2.33	141	241	7.99	0.04	1.31	0.20	0.008	< 10	6	< 10
28548	2.0	3.8	2760	421	< 2	867	103	151	3.72	< 10	11	< 1	< 10	2.07	77	242	7.34	0.07	2.37	0.15	0.009	< 10	5	< 10
28549	2.5	3.5	3690	327	< 2	2010	81	216	2.67	< 10	10	< 1	< 10	1.19	209	148	12.2	0.06	2.00	0.06	0.007	< 10	3	< 10
28550	0.8	2.1	8730	303	< 2	> 10000	4	43	0.47	< 10	5	< 1	< 10	0.40	499	34	33.1	0.11	0.17	0.08	0.050	< 10	4	< 10
28561	0.9	1.5	1200	772	< 2	1130	57	151	3.72	< 10	6	< 1	< 10	0.80	153	246	13.5	0.02	3.81	0.04	0.005	< 10	4	< 10
28572	< 0.2	< 0.5	193	179	< 2	142	4	19	2.54	< 10	33	< 1	< 10	2.22	18	170	1.83	0.08	1.47	0.33	0.034	< 10	3	< 10
28573	< 0.2	< 0.5	133	126	< 2	160	4	20	5.25	< 10	76	< 1	< 10	3.78	18	240	1.76	0.24	1.64	0.77	0.003	< 10	3	< 10
28574	< 0.2	< 0.5	93	179	< 2	162	2	16	1.36	< 10	38	< 1	< 10	1.57	20	203	1.66	0.07	1.29	0.17	0.079	< 10	3	< 10
28575	< 0.2	< 0.5	56	166	< 2	178	3	18	1.07	< 10	40	< 1	< 10	1.24	30	195	1.68	0.14	1.25	0.11	0.037	< 10	2	< 10
28576	< 0.2	< 0.5	38	205	< 2	184	4	24	1.51	< 10	70	< 1	< 10	1.31	20	272	2.23	0.28	1.94	0.09	0.100	< 10	3	< 10
28577	< 0.2	< 0.5	23	269	< 2	119	2	20	1.48	< 10	20	< 1	< 10	1.62	14	242	1.98	0.09	1.64	0.07	0.098	< 10	3	< 10
28578	< 0.2	< 0.5	61	278	2	55	3	40	2.43	< 10	294	< 1	< 10	0.50	20	93	3.67	0.86	2.82	0.09	0.040	< 10	8	< 10
28579	0.4	< 0.5	710	388	< 2	54	3	41	2.84	< 10	131	< 1	< 10	1.16	18	84	4.62	0.38	3.27	0.06	0.031	< 10	10	< 10
28580	< 0.2	< 0.5	4	186	< 2	< 1	6	5	0.02	< 10	75	< 1	< 10	10.5	< 1	14	0.04	< 0.01	5.80	0.02	0.004	< 10	< 1	< 10
28581	< 0.2	< 0.5	102	116	< 2	89	4	21	5.70	< 10	141	< 1	< 10	4.06	13	254	1.67	0.34	1.37	0.62	0.010	< 10	3	< 10
28582	0.3	< 0.5	267	152	< 2	249	11	19	6.12	< 10	55	< 1	< 10	4.99	19	358	1.88	0.11	1.26	0.74	0.006	< 10	2	< 10
28583	0.4	< 0.5	274	143	< 2	145	14	18	6.84	< 10	51	< 1	< 10	5.07	18	270	1.66	0.06	0.82	0.94	0.009	< 10	3	< 10
28584	< 0.2	< 0.5	188	172	< 2	82	8	15	6.04	< 10	22	< 1	< 10	4.98	11	173	1.56	0.05	1.13	0.63	0.009	< 10	3	< 10
28585	2.3	1.5	1910	266	< 2	77	6	39	4.37	< 10	104	< 1	< 10	2.82	19	223	3.32	0.47	2.10	0.32	0.022	< 10	6	< 10
28586	0.5	0.7	453	304	< 2	26	3	37	2.67	< 10	272	< 1	< 10	0.22	12	87	3.73	0.80	2.19	0.09	0.023	< 10	7	< 10
28587	0.2	< 0.5	171	219	< 2	76	10	20	6.30	< 10	58	< 1	< 10	4.80	12	166	2.04	0.16	1.37	0.71	0.013	< 10	5	< 10
28588	0.3	< 0.5	230	179	< 2	73	12	13	8.33	< 10	18	< 1	< 10	5.04	11	180	1.46	0.04	1.03	0.80	0.011	< 10	4	< 10
28589	0.2	< 0.5	163	183	< 2	111	13	16	6.05	< 10	15	< 1	< 10	5.02	15	176	1.72	0.03	1.33	0.64	0.010	< 10	4	< 10
28590	0.9	1.5	9170	318	< 2	> 10000	5	48	0.50	< 10	4	< 1	< 10	0.42	514	36	34.0	0.11	0.18	0.09	0.051	< 10	4	< 10
28601	0.4	< 0.5	229	147	< 2	129	18	15	6.55	< 10	12	< 1	< 10	5.15	17	145	1.45	0.03	1.10	0.66	0.008	< 10	4	< 10
28612	0.3	0.5	140	139	< 2	124	34	16	6.35	< 10	11	< 1	< 10	6.10	18	134	1.46	0.02	1.13	0.69	0.009	< 10	4	< 10
28613	< 0.2	< 0.5	80	231	< 2	106	28	20	6.11	< 10	16	< 1	< 10	4.99	16	183	2.13	0.05	1.88	0.58	0.008	< 10	5	< 10
28614	0.3	< 0.5	152	210	< 2	132	43	22	6.24	< 10	15	< 1	< 10	4.82	18	142	1.96	0.04	1.62	0.59	0.009	< 10	5	< 10
28615	0.2	< 0.5	200	209	< 2	126	45	21	5.66	< 10	16	< 1	< 10	4.19	18	114	1.78	0.04	1.49	0.53	0.006	< 10	3	< 10
28616	0.3	0.6	283	301	< 2	147	22	33	3.81	< 10	17	< 1	< 10	2.73	23	168	2.36	0.05	1.56	0.30	0.007	< 10	4	< 10
28617	1.0	0.6	606	268	< 2	266	31	51	4.45	< 10	40	< 1	< 10	3.74	25	247	2.07	0.06	1.44	0.39	0.009	< 10	4	< 10
28618	1.1	1.5	731	199	< 2	412	92	119	6.25	< 10	40	< 1	< 10	4.38	51	245	3.62	0.39	1.85	0.74	0.008	< 10	5	< 10
28619	2.7	2.7	2370	126	< 2	1490	127	146	5.03	< 10	16	< 1	< 10	3.11	152	206	5.64	0.19	1.14	0.57	0.008	< 10	5	< 10
28620	0.5	0.6	1400	350	< 2	1410	9	33	5.61	< 10	19	< 1	< 10	2.74	54	131	4.01	0.03	3.47	0.37	0.003	< 10	3	< 10
28621	8.3	5.5	6130	241	< 2	1490	122	350	4.58	< 10	17	< 1	< 10	1.84	140	394	8.41	0.30	3.18	0.15	0.009	< 10	3	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26647	9	0.04	23	< 10	1	1	0.090
26648	87	0.04	20	< 10	1	< 1	0.039
26649	48	0.03	20	< 10	1	< 1	0.055
26650	15	0.12	62	< 10	16	16	10.10
26651	49	0.04	21	< 10	1	1	0.104
26652	8	0.08	36	< 10	1	< 1	0.026
26653	29	0.10	65	< 10	2	1	0.093
26654	39	0.04	33	< 10	1	1	0.052
26655	46	0.05	57	< 10	1	1	0.030
29124	30	0.17	103	< 10	7	2	0.364
29125	34	0.15	64	< 10	22	4	0.159
26635	12	0.05	18	< 10	8	9	1.064
26637	10	0.16	55	< 10	7	6	0.093
26638	12	0.22	73	< 10	7	6	0.077
26639	11	0.18	65	< 10	6	6	0.007
26640	65	0.03	42	< 10	< 1	1	0.469
26641	13	0.22	70	< 10	7	5	0.009
26642	5	0.10	62	< 10	9	4	0.013
26643	9	0.10	81	< 10	7	4	0.053
26644	15	0.23	75	< 10	6	6	0.023
26645	15	0.24	79	< 10	6	8	0.064
27654	106	0.05	21	< 10	1	< 1	0.060
27655	3	0.03	20	< 10	< 1	1	0.174
27656	3	0.04	32	< 10	1	1	0.436
27697	299	0.04	29	< 10	< 1	< 1	0.108
27698	38	0.03	21	< 10	< 1	< 1	0.066
27699	2	0.02	37	< 10	< 1	1	0.574
27900	15	0.12	62	< 10	17	16	9.360
27901	< 1	0.02	43	< 10	< 1	1	0.313
27902	< 1	0.03	44	< 10	< 1	1	0.285
27903	< 1	0.03	44	< 10	< 1	1	0.176
27924	< 1	0.03	43	< 10	< 1	1	0.131
27925	< 1	0.03	63	< 10	< 1	2	0.082
27926	< 1	0.03	58	< 10	< 1	2	0.106
27927	< 1	0.03	52	< 10	< 1	1	0.130
27928	< 1	0.03	44	< 10	< 1	1	0.167
27929	< 1	0.03	30	< 10	< 1	1	0.180
27930	95	< 0.01	2	< 10	< 1	< 1	0.078
27931	1	0.02	17	< 10	< 1	< 1	0.014
27932	2	0.02	14	< 10	< 1	< 1	0.007
27933	34	0.03	16	< 10	< 1	< 1	0.017
28011	5	0.08	11	< 10	2	2	0.367
28012	6	0.07	25	< 10	1	3	1.297
28013	20	0.08	63	< 10	< 1	3	2.557
28014	93	0.10	89	< 10	4	1	0.245
28015	76	0.05	55	< 10	< 1	< 1	0.096
28016	6	< 0.01	5	< 10	23	20	0.034
28017	2	< 0.01	< 1	< 10	7	9	0.011
28018	2	< 0.01	1	< 10	6	5	0.013
28019	35	0.09	36	< 10	2	3	2.221
28020	67	0.03	42	< 10	< 1	1	0.461
28021	30	0.08	36	< 10	1	3	2.457

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28042	49	0.02	21	< 10	< 1	1	0.972
28043	8	0.06	37	< 10	< 1	2	2.980
28044	8	0.05	33	< 10	< 1	2	1.719
28045	19	0.03	39	< 10	< 1	2	1.567
28046	43	0.03	30	< 10	< 1	2	0.905
28047	47	0.03	40	< 10	< 1	3	3.249
28048	35	0.03	42	< 10	1	2	2.296
28049	17	0.03	29	< 10	1	3	5.894
28050	15	0.12	60	< 10	16	17	10.10
28061	8	0.02	36	< 10	< 1	3	3.916
28072	83	0.07	28	< 10	1	5	0.209
28073	155	0.04	22	< 10	< 1	< 1	0.185
28074	30	0.07	23	< 10	2	2	0.202
28075	21	0.09	25	< 10	3	5	0.312
28076	14	0.14	39	< 10	3	5	0.188
28077	14	0.11	37	< 10	5	3	0.067
28078	10	0.21	33	< 10	11	7	0.114
28079	9	0.18	34	< 10	19	4	0.216
28080	120	< 0.01	< 1	< 10	< 1	< 1	0.080
28081	143	0.05	29	< 10	1	< 1	0.102
28082	140	0.05	31	< 10	< 1	< 1	0.237
28083	155	0.05	34	< 10	1	< 1	0.237
28084	105	0.03	24	< 10	1	< 1	0.091
28085	48	0.10	41	< 10	8	2	0.414
28086	17	0.14	26	< 10	6	3	0.239
28087	107	0.06	31	< 10	2	< 1	0.099
28088	120	0.04	25	< 10	1	< 1	0.107
28089	119	0.04	27	< 10	1	< 1	0.118
28090	16	0.12	61	< 10	17	18	9.248
28091	122	0.03	23	< 10	1	< 1	0.151
28092	153	0.04	26	< 10	1	< 1	0.153
28093	129	0.04	34	< 10	1	1	0.073
28094	150	0.04	29	< 10	1	1	0.116
28095	135	0.03	22	< 10	1	1	0.110
28096	59	0.03	33	< 10	1	1	0.142
28097	50	0.05	34	< 10	1	1	0.296
28098	83	0.07	41	< 10	1	1	1.015
28099	78	0.05	40	< 10	1	2	3.075
28100	64	0.03	42	< 10	< 1	1	0.450
28101	33	0.07	43	< 10	1	2	2.989

Activation Laboratories Ltd. Report: A08-4414

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.8	3.1	1130	778	14	34	594	539	0.29	366	207	<1	1420	0.80	10	7	24.2	0.02	0.13	0.05	0.038	74	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	0.7	6200	143	332	39	44	58	2.62	104	27	1	17	0.97	15	56	3.50	1.40	1.66	0.13	0.126	<10	6	<10
GXR-4 Cert	4.00	0.860	6020	155	310	42.0	62.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.6	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	17.6	4.4	82	972	<2	16	743	532	3.11	15	1290	1	<10	0.81	9	25	2.17	0.54	0.52	0.23	0.060	32	4	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	71	937	<2	24	98	120	6.47	246	890	<1	<10	0.15	14	85	5.54	0.88	0.41	0.12	0.034	<10	21	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.9	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas							2920																	
OREAS 13P Cert							2500																	
26537 Ong	< 0.2	0.8	67	498	3	22	7	105	3.58	< 10	188	< 1	< 10	0.41	12	54	4.80	0.89	2.53	0.09	0.090	< 10	6	< 10
26637 Dup	< 0.2	0.5	63	472	5	20	7	98	3.40	< 10	181	< 1	< 10	0.38	13	51	4.59	0.85	2.40	0.06	0.085	< 10	6	< 10
27869 Ong	< 0.2	< 0.5	367	152	< 2	590	< 2	37	2.94	< 10	6	< 1	< 10	0.14	66	370	5.26	< 0.01	4.75	0.02	0.006	< 10	< 1	< 10
27869 Dup	< 0.2	< 0.5	338	150	< 2	573	< 2	36	2.90	< 10	8	< 1	< 10	0.14	52	383	5.13	< 0.01	4.69	0.02	0.006	< 10	< 1	< 10
27932 Ong	< 0.2	< 0.5	3	303	< 2	338	< 2	44	3.02	< 10	7	< 1	< 10	0.63	38	146	3.55	< 0.01	4.55	0.06	0.006	< 10	1	< 10
27932 Dup	< 0.2	< 0.5	3	308	< 2	338	< 2	43	3.05	< 10	6	< 1	< 10	0.64	40	152	3.61	< 0.01	4.61	0.06	0.007	< 10	1	< 10
28043 Ong	4.3	3.0	2430	443	< 2	1960	69	124	3.22	< 10	9	< 1	< 10	1.66	201	284	6.19	0.08	4.35	0.06	0.006	< 10	3	< 10
28043 Dup	4.3	3.3	2500	442	< 2	1940	72	106	3.29	< 10	9	< 1	< 10	1.53	200	285	7.98	0.08	4.29	0.06	0.006	< 10	3	< 10
28595 Ong	0.5	0.5	489	303	< 2	25	2	37	2.82	< 10	281	< 1	< 10	0.22	12	87	3.75	0.80	2.19	0.09	0.024	< 10	7	< 10
28595 Dup	0.5	0.7	446	304	< 2	25	4	37	2.72	< 10	283	< 1	< 10	0.22	12	87	3.71	0.80	2.19	0.09	0.023	< 10	7	< 10
28620 Ong	0.5	0.7	1380	348	< 2	1380	8	32	5.60	< 10	19	< 1	< 10	2.73	53	130	3.97	0.03	3.44	0.36	0.003	< 10	3	< 10
28620 Dup	0.5	0.6	1420	352	< 2	1430	8	33	5.71	< 10	19	< 1	< 10	2.76	54	132	4.06	0.03	3.50	0.37	0.003	< 10	3	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	150		74	161	23	13	0.209
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	72		83	17	11	11	1.963
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	91		48	< 10	10	11	0.038
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	28		172	< 10	6	14	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
26527 Orig	10	0.17	56	< 10	7	7	0.095
26627 Dup	9	0.16	53	< 10	7	5	0.091
27869 Orig	2	0.02	36	< 10	< 1	1	0.676
27869 Dup	2	0.02	36	< 10	< 1	1	0.673
27932 Orig	1	0.02	14	< 10	< 1	< 1	0.007
27932 Dup	2	0.02	14	< 10	< 1	< 1	0.007
28043 Orig	8	0.06	37	< 10	< 1	2	3.046
28043 Dup	8	0.06	37	< 10	< 1	2	2.914
28598 Orig	17	0.14	26	< 10	6	3	0.243
28598 Dup	17	0.14	26	< 10	6	3	0.236
28620 Orig	62	0.03	41	< 10	< 1	1	0.449
28620 Dup	65	0.03	42	< 10	< 1	1	0.456
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 24-Jul-08
Invoice No.: A08-4416
Invoice Date: 08-Aug-08
Your Reference: DOSSIER 22899

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

80 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4416**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4416

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28552	< 0.2	< 0.5	136	705	2	63	41	103	3.43	< 10	84	< 1	< 10	1.62	25	68	5.16	0.56	2.93	0.06	0.052	< 10	10	< 10
28563	< 0.2	< 0.5	27	516	2	12	16	55	2.74	< 10	87	< 1	< 10	0.80	8	77	3.76	0.34	2.40	0.04	0.021	< 10	5	< 10
28564	0.3	< 0.5	148	871	< 2	58	6	125	2.10	< 10	28	< 1	< 10	2.04	21	142	4.10	0.13	2.13	0.07	0.019	< 10	9	< 10
28565	0.3	< 0.5	186	578	< 2	54	5	116	2.40	< 10	22	< 1	< 10	2.20	19	136	3.89	0.10	1.82	0.06	0.020	< 10	9	< 10
28566	0.4	0.6	161	704	< 2	62	10	140	2.68	< 10	21	< 1	< 10	2.39	21	144	4.28	0.11	1.99	0.08	0.022	< 10	9	< 10
28567	0.2	< 0.5	93	536	< 2	44	29	151	3.27	< 10	87	< 1	< 10	2.00	18	120	4.82	0.58	2.17	0.06	0.060	< 10	12	< 10
28568	< 0.2	< 0.5	26	647	< 2	13	9	180	3.66	< 10	167	< 1	< 10	0.65	15	42	5.79	0.59	2.17	0.06	0.092	< 10	10	< 10
28569	< 0.2	< 0.5	4	324	< 2	3	5	88	2.18	< 10	106	< 1	< 10	0.11	5	106	3.67	0.54	1.42	0.03	0.013	< 10	2	< 10
28560	< 0.2	< 0.5	3	172	< 2	4	5	10	0.11	< 10	214	< 1	< 10	7.93	< 1	35	0.18	0.03	4.81	0.02	0.004	< 10	< 1	< 10
28561	< 0.2	< 0.5	24	399	< 2	4	3	123	2.66	< 10	123	< 1	< 10	0.24	9	93	5.30	0.54	1.89	0.04	0.016	< 10	4	< 10
28561	< 0.2	< 0.5	4	108	< 2	8	6	10	0.22	< 10	20	< 1	< 10	0.83	< 1	102	0.26	0.08	0.31	0.05	0.009	< 10	< 1	< 10
28562	< 0.2	< 0.5	10	114	< 2	5	10	11	0.51	< 10	8	< 1	< 10	0.36	< 1	105	0.28	0.13	0.03	0.06	0.022	< 10	< 1	< 10
28563	< 0.2	< 0.5	6	101	3	8	3	9	0.23	< 10	8	< 1	< 10	0.13	< 1	128	0.23	0.09	0.05	0.07	0.007	< 10	< 1	12
28564	< 0.2	< 0.5	102	147	< 2	8	12	22	0.21	< 10	7	< 1	< 10	0.07	< 1	81	0.31	0.28	0.02	0.05	0.006	< 10	< 1	< 10
28565	0.9	0.7	344	306	2	208	104	63	0.62	< 10	32	6	< 10	0.19	13	144	1.64	0.24	0.42	0.09	0.033	< 10	1	< 10
28566	3.6	4.1	2880	419	< 2	1620	40	284	3.89	< 10	53	2	< 10	2.00	83	247	8.80	0.88	1.96	0.39	0.009	< 10	6	< 10
28567	2.7	3.6	2340	370	< 2	1530	68	223	3.71	< 10	20	< 1	< 10	2.72	76	145	7.41	0.18	1.43	0.45	0.007	< 10	5	< 10
28568	1.6	3.3	1160	257	< 2	676	81	260	4.63	< 10	4	< 1	< 10	3.04	37	412	4.70	0.51	1.62	0.33	0.006	< 10	3	< 10
28569	3.4	5.0	2090	252	< 2	1270	150	184	4.85	< 10	9	< 1	24	3.49	58	191	8.01	0.08	1.32	0.30	0.007	< 10	3	< 10
28560	< 0.2	< 0.5	39	213	< 2	25	8	12	0.11	< 10	97	< 1	< 10	9.01	1	37	0.19	0.01	5.56	0.03	0.003	< 10	< 1	< 10
28561	5.2	5.3	4220	220	< 2	2060	146	190	4.10	< 10	8	< 1	15	3.08	122	178	9.42	0.06	1.38	0.22	0.005	< 10	3	< 10
28562	6.2	6.2	2980	238	< 2	1150	174	287	3.19	< 10	53	< 1	33	1.54	77	383	6.79	0.92	3.32	0.12	0.007	< 10	3	< 10
28563	3.2	4.0	1790	182	< 2	1570	100	256	3.04	< 10	43	< 1	< 10	1.62	84	530	7.26	0.73	2.76	0.14	0.005	< 10	3	< 10
28564	11.0	3.2	1830	138	< 2	4980	372	138	1.69	< 10	13	< 1	166	1.03	192	199	19.9	0.10	1.10	0.09	0.006	< 10	2	< 10
28565	2.5	1.4	1100	177	< 2	4290	113	141	2.76	< 10	16	< 1	< 10	1.77	162	263	16.6	0.13	1.72	0.13	0.003	< 10	2	< 10
28566	4.6	2.1	1680	136	< 2	2860	218	161	4.04	< 10	26	< 1	34	2.94	120	196	12.3	0.14	0.66	0.24	0.003	< 10	3	< 10
28567	5.8	3.8	3910	79	< 2	8330	71	149	1.83	< 10	16	< 1	< 10	1.14	251	100	24.9	0.12	0.54	0.15	0.006	< 10	1	< 10
28568	8.9	4.5	5970	103	< 2	6130	100	177	1.16	< 10	16	< 1	< 10	0.70	311	107	25.0	0.11	0.51	0.13	0.014	< 10	2	< 10
28569	5.8	3.4	2970	136	< 2	3150	128	203	2.56	< 10	11	< 1	< 10	1.49	414	85	15.8	0.41	0.98	0.28	0.027	< 10	4	< 10
28570	0.5	< 0.5	1240	322	< 2	1290	5	26	4.90	< 10	19	< 1	< 10	2.40	46	118	3.66	0.03	3.17	0.33	0.003	< 10	3	< 10
28571	< 0.2	< 0.5	101	376	< 2	66	8	137	2.80	< 10	242	< 1	< 10	0.21	13	96	3.44	1.14	1.66	0.13	0.030	< 10	6	< 10
28572	4.8	3.1	3300	492	< 2	128	12	250	2.75	< 10	151	< 1	< 10	0.87	22	117	4.51	0.90	2.03	0.07	0.025	< 10	7	< 10
28573	0.3	0.5	186	500	< 2	15	9	180	3.67	< 10	345	< 1	< 10	0.32	14	111	5.02	1.60	2.54	0.12	0.070	< 10	11	< 10
28574	8.4	11.4	3680	242	2	90	101	303	0.87	< 10	16	< 1	< 10	0.22	8	125	3.19	0.26	0.26	0.05	0.009	< 10	< 1	30
28575	0.4	0.9	39	230	< 2	14	79	119	1.02	< 10	36	< 1	< 10	0.10	3	121	1.52	0.43	0.44	0.07	0.016	< 10	1	23
28576	27.4	35.3	> 10000	751	< 2	1040	75	788	2.07	< 10	25	< 1	< 10	1.01	57	73	11.5	0.70	1.78	0.06	0.019	< 10	5	35
28577	24.4	38.5	> 10000	444	< 2	1050	106	1040	2.41	< 10	22	< 1	< 10	1.08	100	162	10.8	0.43	1.30	0.20	0.021	< 10	4	36
28578	44.6	129	> 10000	949	< 2	1260	284	3310	2.09	< 10	20	< 1	< 10	0.91	114	115	13.9	0.20	1.15	0.17	0.027	< 10	4	58
28579	12.1	20.7	4840	449	< 2	263	618	551	1.66	< 10	15	< 1	< 10	0.82	31	97	6.30	0.05	1.16	0.09	0.097	< 10	4	30
28580	0.5	0.8	145	182	< 2	15	34	28	0.12	< 10	333	< 1	< 10	8.74	2	34	0.25	0.08	4.47	0.03	0.006	< 10	< 1	< 10
28581	0.7	1.6	304	438	< 2	32	22	54	1.43	< 10	10	< 1	< 10	1.33	13	50	4.21	0.01	0.82	0.06	0.117	< 10	2	< 10
28582	1.5	0.7	806	519	< 2	34	29	51	2.17	< 10	77	< 1	< 10	0.80	23	65	5.88	0.23	1.63	0.10	0.065	< 10	6	< 10
28583	1.8	0.8	768	484	< 2	25	22	88	3.57	< 10	120	< 1	< 10	0.97	17	78	5.12	0.77	3.45	0.10	0.081	< 10	9	< 10
28584	< 0.2	< 0.5	46	507	< 2	7	5	83	4.03	< 10	142	< 1	< 10	0.62	16	36	4.77	0.75	3.68	0.06	0.070	< 10	8	< 10
28585	< 0.2	< 0.5	49	576	< 2	6	7	50	3.63	< 10	179	< 1	< 10	0.38	14	80	4.84	0.82	3.05	0.05	0.083	< 10	5	< 10
28586	< 0.2	< 0.5	29	579	< 2	5	7	88	3.62	< 10	207	< 1	< 10	0.53	14	49	4.70	1.00	2.91	0.07	0.081	< 10	10	< 10
28587	< 0.2	< 0.5	17	413	< 2	5	2	77	3.00	< 10	147	< 1	< 10	0.22	9	62	3.87	0.76	2.16	0.06	0.043	< 10	6	< 10
28588	1.5	< 0.5	1360	281	3	25	6	58	1.52	< 10	21	< 1	< 10	0.23	20	104	3.68	0.09	1.35	0.02	0.012	< 10	2	< 10
28589	< 0.2	< 0.5	90	328	< 2	16	< 2	36	1.65	< 10	46	< 1	< 10	0.23	5	62	3.02	2.00	1.46	0.03	0.017	< 10	1	< 10
28590	0.6	< 0.5	1310	329	< 2	1310	5	27	5.20	< 10	18	< 1	< 10	2.43	43	119	3.69	0.03	3.23	0.35	0.003	< 10	3	< 10
29013	1.1	1.4	339	825	< 2	329	4	125	6.14	< 10	15	16	31	3.84	32	343	4.36	1.79	3.72	0.29	0.168	< 10	6	27
29014	0.4	< 0.5	86	424	< 2	282	4	53	5.61	< 10	18	9	< 10	3.19	35	260	4.20	1.82	4.02	0.31	0.003	< 10	3	< 10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
29015	2.8	1.2	1020	103	<2	275	13	25	7.83	<10	17	3	<10	5.83	24	224	1.65	0.22	1.01	0.72	0.015	<10	3	<10	
29016	1.5	0.8	494	109	<2	176	10	22	5.22	<10	21	2	<10	4.04	16	242	1.32	0.23	1.00	0.49	0.096	<10	2	<10	
29017	0.9	<0.5	325	87	<2	238	11	14	8.62	<10	18	3	<10	6.78	10	180	1.06	0.17	0.75	0.71	0.009	<10	2	<10	
29018	2.4	0.6	925	69	<2	297	11	10	7.37	<10	10	2	<10	5.69	23	160	1.17	0.03	0.48	0.70	0.015	<10	2	<10	
29019	3.2	0.9	1450	82	<2	336	13	15	7.98	<10	10	<1	<10	5.52	28	191	1.67	0.05	0.70	0.85	0.011	<10	3	<10	
29020	0.5	<0.5	1290	345	<2	1380	5	28	5.17	<10	20	<1	<10	2.58	47	127	3.86	0.03	3.37	0.35	0.003	<10	3	<10	
29021	0.3	<0.5	55	105	<2	135	11	21	6.53	<10	43	2	<10	4.75	13	276	1.31	0.32	1.26	0.51	0.003	<10	2	<10	
29022	3.3	1.5	1280	142	<2	220	9	80	4.85	<10	129	<1	<10	1.69	32	220	5.16	3.77	1.30	3.07	0.50	0.002	<10	7	<10
29043	1.2	0.8	1560	63	<2	1110	20	53	5.50	<10	37	<1	<10	3.13	59	124	5.07	0.32	1.25	0.45	0.005	<10	2	<10	
29044	0.4	<0.5	302	113	<2	106	13	74	4.61	<10	153	<1	<10	1.56	16	96	3.30	0.78	1.97	0.26	0.007	<10	5	<10	
29045	0.9	0.8	697	84	<2	244	8	58	4.70	<10	113	<1	<10	1.84	38	88	3.70	0.58	1.78	0.17	0.014	<10	4	<10	
29046	0.7	<0.5	413	74	<2	230	4	34	3.32	<10	50	<1	<10	1.40	25	132	2.00	0.20	1.13	0.11	0.003	<10	2	<10	
29047	1.7	1.2	1420	50	<2	571	5	48	4.59	<10	43	<1	<10	2.15	63	132	3.70	0.08	1.18	0.14	0.006	<10	1	<10	
29048	0.4	<0.5	329	78	<2	373	5	90	4.88	<10	111	<1	<10	1.12	26	124	4.52	1.00	2.88	0.13	0.003	<10	5	<10	
29049	0.4	<0.5	315	68	<2	307	8	52	5.37	<10	115	<1	<10	2.48	24	136	2.87	0.58	1.91	0.20	0.007	<10	4	<10	
29050	0.9	1.1	8610	290	<2	>10000	4	38	0.60	<10	12	<1	<10	0.38	489	32	31.3	0.11	0.16	0.09	0.046	<10	3	<10	
29051	9.3	4.3	3740	112	<2	100	17	69	5.36	<10	103	<1	<10	4.53	30	38	1.96	0.18	0.81	0.22	0.028	<10	2	<10	
29062	13.5	5.3	3810	122	<2	97	30	67	5.02	<10	42	<1	30	4.22	20	63	2.38	0.15	0.71	0.21	0.038	<10	3	<10	
29082	0.3	<0.5	145	336	<2	35	4	47	3.99	<10	283	<1	<10	1.40	16	138	4.44	1.48	2.34	0.22	0.015	<10	10	<10	
29063	<0.2	<0.5	42	270	<2	10	2	33	2.68	<10	293	<1	<10	0.35	18	79	3.40	1.17	1.75	0.13	0.027	<10	6	<10	
29064	<0.2	<0.5	7	267	3	14	5	24	4.01	<10	144	<1	<10	1.38	14	123	2.80	1.18	1.66	0.29	0.021	<10	4	<10	
29065	<0.2	<0.5	4	245	2	18	5	25	3.55	<10	156	<1	<10	1.04	10	118	2.97	1.13	1.67	0.16	0.026	<10	4	<10	
29066	1.0	<0.5	382	356	2	31	4	30	2.64	<10	82	<1	<10	0.80	14	46	3.30	0.49	2.24	0.05	0.026	<10	4	<10	
29067	1.2	<0.5	147	278	<2	20	5	24	3.31	<10	111	<1	<10	0.99	10	99	2.97	0.81	1.74	0.10	0.028	<10	3	<10	
29068	1.0	<0.5	320	324	3	16	17	31	3.75	<10	133	<1	<10	1.42	10	91	3.09	0.80	2.25	0.10	0.022	<10	4	<10	
29069	<0.2	<0.5	13	196	<2	13	7	24	3.63	<10	139	<1	<10	0.78	5	127	2.09	0.88	1.88	0.19	0.007	<10	2	<10	
29070	0.5	<0.5	1290	344	<2	1380	5	29	5.09	<10	19	<1	<10	2.57	45	126	3.89	0.04	3.59	0.35	0.003	<10	3	<10	
29072	<0.2	<0.5	7	223	3	16	7	29	3.45	<10	114	<1	<10	1.16	5	111	2.60	0.77	1.94	0.16	0.009	<10	3	<10	

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28552	18	0.23	89	< 10	9	5	0.239
28563	12	0.12	26	< 10	15	12	0.036
28554	22	0.13	91	< 10	5	4	0.073
28555	23	0.13	97	< 10	6	3	0.058
28556	13	0.14	101	< 10	6	2	0.120
28557	20	0.21	132	< 10	7	3	0.109
28558	16	0.16	112	< 10	12	5	0.042
28559	7	0.05	5	< 10	11	14	0.017
28560	85	< 0.01	7	< 10	< 1	< 1	0.063
28561	14	0.06	9	< 10	14	14	0.041
28561	8	< 0.01	< 1	< 10	5	4	0.015
28562	2	< 0.01	< 1	< 10	6	5	0.011
28563	1	< 0.01	< 1	< 10	4	3	0.008
28564	< 1	< 0.01	< 1	< 10	4	4	0.070
28565	4	0.03	9	< 10	5	5	0.521
28565	47	0.10	38	< 10	< 1	3	3.267
28567	58	0.04	28	< 10	1	3	3.163
28568	81	0.06	32	< 10	< 1	2	1.098
28569	63	0.03	22	< 10	< 1	2	2.855
28560	101	< 0.01	7	< 10	< 1	< 1	0.110
28561	52	0.03	23	< 10	< 1	3	4.178
28562	14	0.07	36	< 10	< 1	2	2.273
28563	21	0.05	31	< 10	< 1	2	2.787
28564	13	0.02	18	< 10	< 1	6	8.732
28565	25	0.03	23	< 10	< 1	4	6.010
28566	52	0.04	27	< 10	1	4	5.167
28567	13	0.03	30	25	< 1	6	9.229
28568	6	0.04	45	< 10	2	7	9.788
28569	17	0.05	84	< 10	4	5	7.938
28570	59	0.02	37	< 10	< 1	1	0.423
28571	9	0.20	30	< 10	6	10	0.156
28572	12	0.21	85	< 10	6	6	0.880
28573	9	0.25	61	< 10	8	9	0.118
28574	3	0.01	11	< 10	5	4	0.861
28575	2	0.03	5	< 10	5	5	0.027
28576	6	0.12	72	< 10	5	4	4.224
28577	15	0.11	148	< 10	4	3	4.178
28578	11	0.10	127	< 10	5	4	6.165
28579	10	0.15	97	< 10	14	2	1.266
28580	118	< 0.01	9	< 10	1	< 1	0.177
28581	35	0.17	93	< 10	12	2	0.092
28582	14	0.20	121	< 10	10	3	0.386
28583	18	0.17	92	< 10	9	5	0.144
28584	14	0.12	72	< 10	8	4	0.103
28585	9	0.11	86	< 10	10	6	0.314
28585	14	0.17	68	< 10	6	5	0.274
28587	9	0.10	36	< 10	8	9	0.049
28588	3	0.04	12	< 10	8	5	0.808
28589	4	0.04	7	< 10	20	12	0.060
28590	60	0.02	38	< 10	< 1	1	0.417
29013	72	0.05	37	62	7	2	0.112
29014	78	0.04	29	< 10	< 1	2	0.034

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
29015	135	0.04	22	< 10	1	< 1	0.414
29016	77	0.03	17	< 10	< 1	< 1	0.181
29017	128	0.03	17	< 10	< 1	< 1	0.219
29018	141	0.02	16	< 10	< 1	< 1	0.446
29019	148	0.03	21	< 10	1	< 1	0.615
29020	62	0.03	40	< 10	< 1	1	0.437
29021	72	0.04	22	< 10	< 1	< 1	0.059
29022	30	0.07	66	< 10	1	2	0.490
29043	32	0.04	37	< 10	1	2	2.309
29044	22	0.10	61	< 10	1	1	0.379
29045	17	0.09	50	< 10	2	2	0.810
29046	11	0.07	22	< 10	1	1	0.282
29047	17	0.08	68	< 10	1	2	1.047
29048	10	0.19	67	< 10	< 1	2	0.255
29049	19	0.12	64	< 10	1	1	0.229
29060	16	0.11	57	< 10	16	17	9.534
29051	32	0.09	27	< 10	5	1	0.661
29062	50	0.07	39	< 10	4	1	0.802
29062	19	0.18	57	< 10	6	10	0.105
29063	9	0.16	20	< 10	6	12	0.019
29064	17	0.14	9	< 10	6	14	0.012
29065	17	0.16	14	< 10	5	14	0.009
29066	8	0.16	22	< 10	15	6	0.070
29067	12	0.14	12	< 10	10	11	0.036
29068	14	0.13	20	< 10	11	9	0.144
29069	18	0.09	5	< 10	7	16	0.012
29070	61	0.03	40	< 10	< 1	1	0.431
29072	17	0.10	6	< 10	10	13	0.010

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	23.1	3.1	1080	773	13	23	528	544	0.30	326	259	<1	1270	0.75	7	6	21.6	0.02	0.12	0.04	0.033	83	<1	23
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	2.9	< 0.5	6200	118	252	34	37	57	2.43	90	47	1	22	0.79	13	49	3.10	1.21	1.44	0.11	0.110	< 10	5	< 10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.2	4.4	87	1050	<2	17	753	552	3.24	17	990	1	<10	0.74	10	25	2.19	0.53	0.51	0.15	0.061	33	4	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	64	904	<2	16	85	104	6.24	227	839	<1	<10	0.15	13	75	5.55	0.79	0.35	0.07	0.031	< 10	19	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2690			2230											5.97							
OREAS 13P Cert			2500			2280											7.58							
28553 Ong	< 0.2	< 0.5	6	98	2	8	4	9	0.22	< 10	8	< 1	< 10	0.13	< 1	126	0.22	0.09	0.04	0.06	0.007	< 10	< 1	11
28653 Dup	< 0.2	< 0.5	6	104	3	7	3	9	0.23	< 10	8	< 1	< 10	0.13	< 1	130	0.23	0.09	0.05	0.07	0.007	< 10	< 1	12
28667 Ong	5.7	3.7	3910	80	<2	6360	72	150	1.85	< 10	17	<1	<10	1.16	263	101	25.2	0.12	0.65	0.16	0.007	< 10	1	< 10
28667 Dup	5.5	3.5	3910	78	<2	6300	71	149	1.81	< 10	14	<1	<10	1.12	250	99	24.6	0.12	0.64	0.16	0.008	< 10	1	< 10
28660 Ong	0.5	0.8	153	184	<2	15	35	28	0.12	< 10	235	<1	<10	8.78	2	34	0.26	0.08	4.45	0.03	0.007	< 10	< 1	< 10
28660 Dup	0.5	0.8	137	180	<2	15	34	28	0.12	< 10	232	<1	<10	8.72	2	35	0.25	0.08	4.45	0.03	0.006	< 10	< 1	< 10
29016 Ong	1.5	0.7	507	109	<2	173	8	20	5.15	< 10	21	2	< 10	4.01	16	241	1.31	0.22	0.96	0.49	0.006	< 10	2	< 10
29016 Dup	1.5	0.8	482	109	<2	179	10	23	5.29	< 10	21	2	< 10	4.08	16	244	1.33	0.23	1.01	0.50	0.007	< 10	2	< 10
29088 Ong	1.2	< 0.5	327	340	3	19	19	33	3.90	< 10	139	<1	<10	1.50	11	94	3.24	0.83	2.39	0.10	0.023	< 10	4	< 10
29088 Dup	0.9	< 0.5	313	308	3	15	15	28	3.66	< 10	127	<1	<10	1.34	10	89	2.93	0.76	2.15	0.10	0.020	< 10	4	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	9	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	141		67	145	20	12	0.191
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	62		66	13	10	6	1.709
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77
GXR-2 Meas	61		47	< 10	11	11	0.038
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	29		149	< 10	6	14	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
28553 Orig	1	< 0.01	< 1	< 10	4	3	0.008
28553 Dup	1	< 0.01	< 1	< 10	4	4	0.009
28667 Orig	13	0.03	31	25	< 1	6	9.148
28667 Dup	12	0.03	30	25	< 1	6	9.311
28580 Orig	117	< 0.01	10	< 10	1	< 1	0.178
28580 Dup	119	< 0.01	9	< 10	1	< 1	0.176
29016 Orig	77	0.03	17	< 10	< 1	< 1	0.171
29016 Dup	77	0.03	18	< 10	< 1	< 1	0.191
29068 Orig	15	0.14	21	< 10	12	9	0.152
29068 Dup	13	0.12	19	< 10	11	9	0.136
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 24-Jul-08
Invoice No.: A08-4417
Invoice Date: 08-Aug-08
Your Reference: DOSSIER 22900

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

57 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4417**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4417

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
30508	0.6	< 0.5	552	209	< 2	565	3	23	5.71	< 10	13	< 1	< 10	4.16	35	165	2.59	0.06	2.05	0.32	0.006	< 10	3	< 10	
30609	0.3	< 0.5	681	139	< 2	400	4	19	8.03	< 10	14	< 1	< 10	5.80	20	197	1.58	0.03	1.17	0.76	0.005	< 10	4	< 10	
30610	0.3	< 0.5	13	208	< 2	11	25	13	0.14	< 10	52	< 1	< 10	9.64	< 1	37	0.11	< 0.01	5.82	0.03	0.003	< 10	4	< 10	
30611	0.3	< 0.5	243	128	< 2	96	5	11	6.03	< 10	9	< 1	< 10	4.95	10	173	1.26	0.02	1.11	0.58	0.008	< 10	4	< 10	
30612	0.7	0.6	566	251	< 2	41	< 2	80	3.47	< 10	119	< 1	< 10	0.14	10	134	2.99	0.88	2.15	0.06	0.003	< 10	4	< 10	
30613	1.4	0.9	934	236	< 2	57	< 2	99	3.41	< 10	135	< 1	< 10	0.08	14	82	3.05	0.87	2.16	0.05	0.004	< 10	4	< 10	
30614	1.4	0.9	777	287	< 2	56	< 2	110	3.37	< 10	214	< 1	< 10	0.06	13	81	3.31	0.73	2.35	0.05	0.003	< 10	4	< 10	
30615	3.7	1.4	881	326	2	112	3	192	3.36	< 10	108	< 1	< 10	0.32	16	80	3.91	0.70	2.63	0.10	0.003	< 10	8	< 10	
30616	1.8	1.7	1360	352	2	16	4	173	3.93	< 10	106	< 1	< 10	1.58	17	65	4.37	0.48	1.91	0.17	0.017	< 10	4	< 10	
30617	1.0	1.6	912	289	3	16	3	256	4.41	< 10	116	< 1	< 10	1.31	16	81	5.35	0.86	2.16	0.18	0.022	< 10	6	< 10	
30688	0.4	2.3	253	86	< 2	28	61	99	0.27	< 10	10	< 1	< 10	0.23	5	249	0.72	0.01	0.17	0.02	0.008	< 10	< 1	< 10	
30665	0.4	< 0.5	219	251	< 2	28	12	56	1.32	< 10	90	< 1	< 10	0.85	15	90	4.61	0.29	1.18	0.11	0.01	< 10	6	< 10	
30670	0.6	< 0.5	1250	320	< 2	1260	4	26	5.07	< 10	18	< 1	< 10	2.39	44	118	3.61	0.03	3.16	0.34	0.003	< 10	3	< 10	
30671	0.4	0.6	176	174	< 2	38	28	90	1.77	< 10	148	< 1	< 10	0.91	13	80	4.45	0.52	1.33	0.17	0.100	< 10	7	< 10	
30672	11.5	8.0	8730	146	< 2	1380	94	433	1.65	< 10	14	< 1	< 10	0.78	318	165	12.3	0.16	0.91	0.12	0.19	< 10	3	< 10	
30673	7.0	12.5	2740	130	< 2	611	122	336	1.20	< 10	42	< 1	< 10	0.44	80	160	6.07	0.10	0.74	0.11	0.017	< 10	2	< 10	
30674	12.5	14.5	7850	576	< 2	2210	278	544	3.06	< 10	22	< 1	< 10	0.19	238	104	17.9	0.05	3.13	0.04	0.016	< 10	7	< 10	
30675	16.3	26.1	> 10000	908	< 2	1920	302	1020	3.14	< 10	30	< 1	< 10	0.43	109	84	16.0	0.09	2.68	0.06	0.031	< 10	6	< 10	
30676	37.3	89.1	> 10000	517	< 2	3420	344	2850	2.30	< 10	15	< 1	< 10	0.43	157	81	24.1	0.09	1.98	0.07	0.034	< 10	5	26	
30677	38.6	32.8	> 10000	878	< 2	1710	577	1470	3.61	< 10	11	< 1	11	0.17	104	31	15.5	0.02	4.97	0.02	0.034	< 10	16	14	
30688	20.6	19.5	> 10000	342	< 2	449	246	741	1.94	< 10	16	< 1	< 10	0.59	39	92	8.06	0.07	1.77	0.04	0.027	< 10	5	11	
30689	0.7	1.2	386	655	< 2	44	28	145	3.20	< 10	97	< 1	< 10	0.42	15	67	6.05	0.36	3.06	0.04	0.057	< 10	9	< 10	
30690	0.8	< 0.5	1350	348	< 2	1380	5	28	5.34	< 10	21	< 1	< 10	2.59	46	127	3.91	0.03	3.43	0.36	0.003	< 10	3	< 10	
30691	1.7	2.4	404	866	< 2	116	11	345	3.47	< 10	26	< 1	< 10	0.78	16	89	7.51	0.13	3.60	0.02	0.037	< 10	6	< 10	
30692	< 0.2	< 0.5	35	518	3	7	4	214	3.25	< 10	91	< 1	< 10	0.55	8	53	5.94	0.29	2.28	0.08	0.058	< 10	6	< 10	
30693	0.6	< 0.5	666	589	3	147	4	185	3.23	< 10	81	< 1	< 10	0.35	19	49	7.68	0.37	3.20	0.06	0.063	< 10	8	< 10	
30694	1.9	1.1	2400	155	< 2	1380	< 2	48	0.11	< 10	6	< 1	< 10	0.90	52	59	12.3	0.01	0.32	0.02	0.027	< 10	< 1	< 10	
30695	4.3	0.9	4380	388	3	490	6	148	1.97	13	11	< 1	< 8	0.99	83	69	8.54	0.04	2.49	0.02	0.074	< 10	2	< 10	
30695	20.0	1.0	> 10000	354	16	961	23	174	1.75	42	6	< 1	400	2.01	39	114	5.40	< 0.01	2.25	0.02	0.090	< 10	2	< 10	
30697	7.1	< 0.5	6760	713	4	538	15	106	3.41	17	8	< 1	20	1.09	52	51	11.0	0.02	4.34	0.01	0.048	< 10	3	< 10	
30681	1.0	0.9	1260	239	4	60	< 2	150	2.63	< 10	169	< 1	< 10	0.17	24	126	4.04	0.55	1.76	0.09	0.027	< 10	2	< 10	
30882	2.5	3.2	1890	177	< 2	17	< 2	189	1.95	< 10	171	< 1	< 10	0.12	11	77	3.05	0.46	1.39	0.07	0.013	< 10	2	< 10	
30883	0.8	3.3	589	155	5	16	< 2	150	1.75	< 10	41	< 1	< 10	0.16	7	162	1.93	0.10	0.84	0.09	0.016	< 10	< 1	< 10	
30884	1.5	2.3	1230	144	< 2	59	< 2	135	1.61	< 10	78	< 1	< 10	0.39	13	79	2.36	0.35	1.25	0.14	0.012	< 10	2	< 10	
30885	0.4	< 0.5	186	138	< 2	57	3	39	6.91	< 10	86	< 1	< 10	5.20	9	305	1.32	0.15	1.03	0.49	0.012	< 10	2	< 10	
30886	< 0.2	< 0.5	58	53	< 2	19	3	8	7.33	< 10	41	< 1	< 10	6.16	3	96	0.41	0.02	0.32	0.47	0.005	< 10	2	< 10	
30887	< 0.2	< 0.5	14	97	< 2	38	< 2	12	7.45	< 10	45	< 1	< 10	6.17	5	162	0.82	0.07	0.70	0.48	0.004	< 10	2	< 10	
30888	0.5	< 0.5	418	135	< 2	47	< 2	39	2.63	< 10	204	< 1	< 10	0.91	14	172	2.91	0.66	1.97	0.21	0.013	< 10	4	< 10	
30889	1.2	0.9	1160	120	5	62	< 2	32	2.03	< 10	80	< 1	< 10	0.24	12	177	2.46	0.21	1.28	0.10	0.021	< 10	3	< 10	
30890	0.8	< 0.5	1310	340	< 2	1370	5	28	5.23	< 10	22	< 1	< 10	2.55	45	126	3.89	0.03	3.41	0.36	0.003	< 10	3	< 10	
30661	0.6	0.7	836	523	9	34	6	176	2.22	< 10	67	< 1	< 10	0.28	47	121	5.70	0.33	1.61	0.03	0.012	< 10	2	< 10	
30662	< 0.2	< 0.5	86	548	8	18	7	145	2.10	< 10	62	< 1	< 10	0.66	10	100	3.84	0.21	1.54	0.03	0.016	< 10	3	< 10	
30663	1.0	< 0.5	733	571	3	25	10	82	2.31	< 10	59	< 1	< 10	0.62	14	107	4.27	0.23	1.82	0.06	0.012	< 10	6	< 10	
30664	< 0.2	< 0.5	14	134	6	20	< 2	11	0.24	< 10	12	< 1	< 10	0.41	2	262	0.73	0.02	0.16	0.02	< 0.001	< 10	< 1	< 10	
30665	< 0.2	< 0.5	16	288	< 2	18	< 2	30	1.01	< 10	16	< 1	< 10	0.81	8	168	1.90	0.05	0.74	0.03	0.013	< 10	4	< 10	
30665	0.5	1.0	478	956	< 2	49	19	224	2.61	< 10	33	< 1	< 10	1.31	35	120	5.94	0.13	2.31	0.08	0.053	< 10	15	< 10	
30667	< 0.2	< 0.5	7	834	< 2	36	17	252	3.32	< 10	41	2	< 10	2.09	21	61	6.20	0.13	2.46	0.04	0.044	< 10	10	< 10	
51035	16.6	20.3	> 10000	321	< 2	7810	262	1230	1.40	< 10	14	< 1	< 10	0.24	182	44	35.6	0.06	0.85	0.04	0.014	12	2	14	
51035	10.6	10.8	7360	242	< 2	7370	193	735	0.82	< 10	15	< 1	< 10	0.24	625	67	35.9	0.04	0.40	0.06	0.010	11	1	< 10	
51037	44.2	32.0	> 10000	599	< 2	2190	1320	1620	1.99	< 10	18	< 1	< 1	54	107	885	109	23.6	0.05	1.35	0.04	0.018	< 10	6	39
51038	58.8	21.3	> 10000	295	2	8200	2260	547	0.91	< 10	10	< 1	< 1	62	1.30	249	47	25.5	0.03	0.58	0.02	0.013	11	1	17
51038	26.9	30.8	> 10000	398	< 2	6240	581	1480	1.74	< 10	16	< 1	28	0.62	164	51	26.0	0.09	1.04	0.06</					

Activation Laboratories Ltd. Report: A08-4417

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
51040	0.6	< 0.5	1340	351	< 2	1390	5	30	5.27	< 10	20	< 1	< 10	2.63	47	126	4.11	0.03	3.48	0.36	0.003	< 10	3	< 10
51041	7.3	2.1	2570	594	< 2	1100	151	180	3.66	< 10	10	< 1	34	0.30	94	63	12.1	0.04	4.66	0.03	0.040	< 10	6	10
51042	9.5	1.1	4450	500	< 2	4380	115	81	2.93	250	6	< 1	50	0.16	230	81	23.0	0.01	3.38	0.03	0.028	< 10	6	< 10
51043	15.2	1.3	> 10000	534	< 2	474	75	111	3.42	< 10	15	< 1	< 10	0.51	240	64	11.2	0.07	4.08	0.05	0.104	< 10	11	< 10
51044	45.7	56.1	> 10000	551	3	4790	1440	1840	2.05	< 10	19	< 1	< 10	0.69	43	59	14.1	0.12	1.86	0.03	0.062	< 10	6	26

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30608	70	0.02	20	< 10	1	1	0.430
30609	135	0.02	21	< 10	1	< 1	0.287
30610	71	< 0.01	8	< 10	< 1	< 1	0.075
30611	107	0.03	24	< 10	1	< 1	0.075
30612	11	0.04	14	< 10	1	2	0.127
30613	12	0.05	14	< 10	2	2	0.218
30614	11	0.04	17	< 10	2	2	0.215
30615	25	0.05	25	< 10	3	2	0.388
30616	21	0.08	20	< 10	7	5	0.736
30617	20	0.13	24	< 10	5	6	0.901
30688	2	0.02	7	< 10	1	< 1	0.149
30669	9	0.15	103	< 10	13	5	0.405
30670	59	0.02	37	< 10	< 1	1	0.402
30671	15	0.14	97	< 10	9	6	0.210
30672	13	0.08	119	< 10	3	5	6.023
30673	10	0.08	136	< 10	2	2	2.334
30674	8	0.05	100	< 10	4	5	6.205
30675	17	0.05	119	< 10	4	6	5.509
30676	13	0.10	247	13	4	7	8.871
30677	4	0.08	68	< 10	6	5	5.339
30688	4	0.11	50	< 10	16	11	2.905
30689	10	0.13	57	< 10	20	10	0.296
30690	64	0.03	40	< 10	< 1	1	0.438
30691	5	0.05	25	< 10	15	10	0.810
30692	23	0.10	46	< 10	11	6	0.121
30693	12	0.10	79	< 10	11	7	1.271
30694	4	< 0.01	4	< 10	2	4	6.271
30695	4	0.03	13	< 10	11	9	3.429
30695	5	0.01	16	< 10	10	5	2.463
30697	4	0.04	16	< 10	16	9	4.335
30681	5	0.10	17	< 10	5	8	0.960
30882	4	0.08	14	< 10	5	7	0.811
30883	5	0.05	6	< 10	5	7	0.347
30884	8	0.08	12	< 10	6	6	0.512
30885	85	0.05	37	< 10	3	< 1	0.090
30886	85	< 0.01	13	< 10	< 1	< 1	0.050
30887	84	0.01	20	< 10	< 1	< 1	0.042
30688	16	0.13	33	< 10	3	3	0.251
30689	13	0.10	22	< 10	4	4	0.479
30690	64	0.02	40	< 10	< 1	1	0.430
30691	5	0.05	6	< 10	19	17	1.489
30692	7	0.08	10	< 10	24	10	0.057
30693	9	0.15	32	< 10	37	10	0.118
30694	2	0.03	6	< 10	4	1	0.010
30695	4	0.10	28	< 10	3	1	0.025
30695	11	0.21	160	< 10	14	4	0.905
30697	15	0.29	86	< 10	21	6	0.026
51035	10	0.04	58	< 10	2	9	7.815
51035	6	0.03	85	< 10	2	8	7.085
51037	6	0.08	104	12	5	6	10.89
51038	4	0.04	53	< 10	3	8	9.721
51038	8	0.06	65	15	5	7	9.534

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
51040	65	0.03	41	< 10	< 1	1	0.459
51041	3	0.10	62	< 10	18	9	4.164
51042	2	0.09	88	< 10	7	8	12.93
51043	4	0.18	94	< 10	20	6	4.294
51044	8	0.16	76	< 10	12	10	7.381

Activation Laboratories Ltd. Report: A08-4417

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	23.1	3.1	1080	773	13	23	528	544	0.30	326	259	<1	1270	0.75	7	6	21.6	0.02	0.12	0.04	0.033	83	<1	23
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	2.9	< 0.5	6200	118	252	34	37	57	2.43	90	47	1	22	0.79	13	48	3.10	1.21	1.44	0.11	0.110	<10	5	< 10
GXR-4 Cert	4.00	0.860	6500	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.2	4.4	87	1050	<2	17	753	552	3.24	17	990	1	<10	0.74	10	25	2.19	0.53	0.51	0.15	0.061	33	4	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	64	904	<2	16	85	104	6.24	227	839	<1	<10	0.15	13	75	5.55	0.79	0.35	0.07	0.031	<10	19	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2690			2230																		
OREAS 13P Cert			2500			2280																		
30688 Ong	0.4	2.3	253	66	<2	26	61	101	0.27	<10	10	<1	<10	0.23	5	251	0.75	0.01	0.17	0.02	0.006	<10	<1	<10
30688 Dup	0.4	2.4	253	66	<2	25	61	98	0.25	<10	10	<1	<10	0.23	5	247	0.72	0.01	0.17	0.02	0.006	<10	<1	<10
30691 Ong	1.8	2.3	406	867	<2	118	11	339	3.64	<10	26	<1	<10	0.78	15	89	7.64	0.13	3.65	0.02	0.037	<10	5	< 10
30691 Dup	1.7	2.4	402	855	<2	113	11	351	3.35	<10	28	<1	<10	0.78	16	89	7.48	0.13	3.60	0.02	0.037	<10	5	< 10
30688 Ong	0.4	< 0.5	415	127	<2	44	<2	37	2.75	<10	193	<1	<10	0.86	13	161	2.74	0.82	1.84	0.21	0.012	<10	4	< 10
30688 Dup	0.6	< 0.5	420	143	<2	50	<2	41	2.88	<10	215	<1	<10	0.95	15	163	3.09	0.70	2.05	0.21	0.014	<10	5	< 10
51043 Ong	15.8	1.4	> 10000	549	<2	487	77	115	3.53	<10	16	<1	<10	0.53	251	65	11.7	0.07	4.23	0.05	0.108	<10	12	< 10
51043 Dup	14.6	1.3	> 10000	520	<2	451	73	107	3.31	<10	15	<1	<10	0.50	229	61	10.6	0.06	3.93	0.05	0.100	<10	11	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	9	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	8	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	141		87	145	20	12	0.191
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	82		66	13	10	8	1.709
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	81		47	< 10	11	11	0.038
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	29		149	< 10	6	14	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
30688 Orig	2	0.02	7	< 10	1	< 1	0.148
30688 Dup	2	0.02	7	< 10	1	< 1	0.151
30691 Orig	5	0.05	26	< 10	15	10	0.811
30691 Dup	4	0.05	26	< 10	15	10	0.809
30888 Orig	15	0.12	31	< 10	3	3	0.231
30888 Dup	17	0.13	35	< 10	4	3	0.270
51043 Orig	4	0.16	98	< 10	21	8	4.474
51043 Dup	4	0.18	90	< 10	19	8	4.114
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 28-Jul-08
Invoice No.: A08-4526
Invoice Date: 14-Aug-08
Your Reference: DOSSIER 22901

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

85 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4526**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is fluid and cursive, written over a horizontal dotted line.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4526

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	ppm	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
24255	4.2	5.0	2950	317	<2	335	205	282	1.82	<10	25	<1	<10	0.71	80	58	5.63	0.10	1.39	0.07	0.14	<10	4	<10	
24266	2.0	6.3	1650	496	<2	196	170	453	3.28	<10	96	1	<10	0.88	24	72	7.84	0.36	2.73	0.13	0.102	<10	11	<10	
24287	2.8	4.0	1780	440	<2	177	88	419	3.03	<10	47	1	<10	0.82	23	75	8.99	0.21	2.38	0.13	0.080	<10	5	<10	
24288	8.3	23.4	>10000	781	<2	269	67	894	3.75	<10	64	1	<10	0.60	33	52	11.8	0.35	3.12	0.09	0.056	<10	8	12	
24289	74.0	97.6	>10000	545	<2	1460	161	2590	2.40	<10	9	<1	<10	0.21	156	46	20.0	0.27	1.75	0.02	0.057	<10	5	16	
24270	0.5	0.5	1330	191	<2	1240	9	23	2.97	<10	13	<1	<10	1.53	39	71	2.51	0.02	1.85	0.21	0.003	<10	1	<10	
24271	0.9	4.2	890	411	<2	103	60	370	2.47	<10	79	1	<10	0.64	22	47	7.02	0.44	2.18	0.09	0.115	<10	7	<10	
24272	1.4	2.8	1130	455	<2	51	38	208	2.80	<10	58	1	<10	0.85	19	49	8.17	0.29	2.49	0.10	0.108	<10	7	<10	
24273	0.5	14.4	587	488	<2	39	78	507	2.50	<10	77	<1	<10	0.56	21	47	8.36	0.41	2.35	0.06	0.092	<10	9	<10	
24274	19.8	83.8	>10000	402	<2	1090	213	2170	1.73	<10	12	<1	<10	0.22	620	42	13.9	0.10	1.48	0.03	0.034	<10	4	<10	
24538	1.7	0.9	1040	342	<2	111	10	34	1.98	<10	11	<1	<10	0.47	37	74	3.50	0.03	2.49	0.02	0.011	<10	3	<10	
24937	1.2	1.4	1100	329	<2	247	5	48	1.65	<10	6	<1	<10	0.39	35	75	3.29	0.01	2.65	0.02	0.111	<10	1	<10	
24938	0.4	<0.5	249	164	<2	335	4	24	1.49	<10	5	<1	<10	0.19	46	77	2.22	<0.01	2.17	0.02	0.008	<10	1	<10	
24939	1.6	<0.5	713	103	<2	177	36	11	2.62	<10	10	<1	<10	2.05	15	118	0.77	0.03	0.89	0.15	0.015	<10	1	<10	
24940	0.4	<0.5	1360	203	<2	1320	9	23	3.05	<10	14	<1	<10	1.62	43	76	2.59	0.02	2.03	0.23	0.004	<10	2	<10	
24941	0.4	<0.5	181	146	<2	66	15	16	2.18	<10	18	<1	<10	1.50	10	106	1.03	0.03	0.94	0.11	0.011	<10	1	<10	
24942	0.7	<0.5	378	98	<2	95	27	16	2.91	<10	8	<1	<10	2.01	10	72	0.72	0.01	0.50	0.32	0.011	<10	1	<10	
24943	0.5	<0.5	234	126	<2	61	15	22	1.60	<10	6	<1	<10	0.98	10	68	0.92	0.01	0.63	0.13	0.007	<10	1	<10	
24944	0.5	<0.5	218	131	<2	82	28	32	1.81	<10	9	<1	<10	1.22	9	88	1.01	0.01	0.82	0.22	0.009	<10	1	<10	
24945	6.4	4.5	3020	270	<2	963	85	159	1.75	<10	10	<1	<10	0.71	57	238	3.87	0.03	1.13	0.08	0.012	<10	2	<10	
26627	7.5	11.9	4420	131	<2	869	217	225	1.69	<10	5	<1	<10	0.82	69	170	4.33	0.01	1.16	0.06	0.009	<10	1	<10	
26628	9.3	14.9	5140	136	<2	1370	174	247	1.55	<10	8	<1	<10	0.33	113	208	5.85	0.04	2.00	0.03	0.013	<10	<1	<10	
26629	25.3	38.7	>10000	155	<2	755	600	381	3.59	<10	11	<1	<10	1.18	2.27	54	105	5.74	0.07	1.21	0.13	0.013	<10	1	<10
26630	0.4	0.7	171	133	<2	19	15	0.07	0.19	<10	60	<1	<10	7.34	1	14	0.16	0.01	4.25	0.02	0.007	<10	<1	<10	
26631	20.3	6.5	1260	102	<2	561	1770	86	4.79	<10	22	<1	<10	3.76	43	133	2.99	0.17	1.18	0.20	0.008	<10	1	<10	
26632	6.9	9.5	2970	53	<2	972	465	124	4.78	<10	7	<1	<10	3.84	111	66	4.06	0.01	0.44	0.28	0.012	<10	1	<10	
26633	6.3	13.2	4030	88	<2	1300	300	227	3.90	<10	9	<1	<10	2.89	104	122	8.61	0.02	0.57	0.28	0.014	<10	1	<10	
26634	7.6	14.4	5760	77	<2	1650	193	323	2.68	<10	43	<1	<10	1.55	133	263	9.37	0.22	1.01	0.19	0.015	<10	2	<10	
26635	8.8	20.9	6490	214	<2	3320	197	539	2.05	<10	17	<1	<10	0.55	244	115	18.3	0.35	1.71	0.09	0.017	<10	5	12	
26636	22.1	17.5	4100	336	<2	409	548	324	2.15	<10	57	<1	<10	4.36	57	47	5.63	0.45	2.09	0.06	0.054	<10	7	21	
26783	0.3	<0.5	193	34	<2	66	10	13	3.38	<10	30	<1	<10	2.70	7	126	0.69	0.14	0.46	0.37	0.009	<10	1	<10	
26784	0.4	<0.5	256	44	<2	128	9	10	4.74	<10	23	<1	<10	3.83	10	138	0.70	0.08	0.39	0.50	0.009	<10	1	<10	
26785	0.7	<0.5	467	64	<2	223	7	15	4.15	<10	47	<1	<10	3.15	17	226	1.12	0.21	0.65	0.42	0.008	<10	1	<10	
26786	0.5	<0.5	325	47	<2	151	8	13	4.21	<10	28	<1	<10	3.25	13	170	0.86	0.12	0.49	0.44	0.010	<10	<1	<10	
26787	0.3	<0.5	157	59	<2	65	5	12	4.08	<10	41	<1	<10	2.94	8	165	0.88	0.13	0.58	0.44	0.010	<10	1	<10	
26788	4.4	1.5	1440	115	<2	122	14	29	4.64	<10	62	<1	<10	3.21	17	233	1.56	0.15	1.04	0.30	0.012	<10	2	<10	
26789	7.1	2.1	2380	86	<2	105	18	26	3.30	<10	14	<1	<10	2.43	16	41	1.22	0.05	0.75	0.13	0.012	<10	1	<10	
26790	0.5	<0.5	1310	193	<2	1250	10	22	2.95	<10	13	<1	<10	1.56	40	73	2.44	0.02	1.91	0.23	0.004	<10	1	<10	
26791	1.5	<0.5	684	63	<2	602	<2	25	1.11	<10	5	<1	<10	0.13	55	69	2.19	<0.01	1.63	0.01	0.008	<10	<1	<10	
26792	0.4	<0.5	227	105	<2	279	<2	18	0.98	<10	6	<1	<10	0.81	33	49	1.59	0.01	1.18	0.02	0.009	<10	<1	<10	
26865	<0.2	0.5	72	171	<2	20	<2	48	2.34	<10	227	<1	<10	0.10	7	47	2.93	0.94	1.73	0.06	0.024	<10	5	<10	
26867	0.8	0.9	1020	204	<2	61	<2	57	2.78	<10	120	<1	<10	0.20	24	39	4.87	1.15	1.99	0.07	0.021	<10	9	<10	
26868	0.3	0.7	306	212	<2	29	<2	54	2.73	<10	235	<1	<10	0.39	10	51	4.00	1.08	1.95	0.10	0.023	<10	8	<10	
26869	1.3	1.1	902	200	<2	30	2	60	2.76	<10	227	<1	<10	0.44	12	69	3.96	0.96	1.76	0.11	0.020	<10	8	<10	
26870	0.5	<0.5	1380	195	<2	1280	9	23	2.97	<10	14	<1	<10	1.59	41	74	2.51	0.03	1.95	0.23	0.004	<10	1	<10	
26871	0.6	0.5	572	212	<2	32	3	52	2.77	<10	173	<1	<10	0.30	13	65	3.90	0.83	1.74	0.14	0.020	<10	7	<10	
26872	0.6	0.8	589	237	<2	39	2	52	2.64	<10	296	<1	<10	0.44	13	72	3.87	0.91	1.88	0.12	0.019	<10	8	<10	
26873	0.8	0.5	321	288	<2	50	4	62	3.12	<10	252	<1	<10	0.88	13	59	4.08	1.01	2.25	0.16	0.019	<10	8	<10	
26874	1.5	1.3	980	221	<2	70	<2	55	2.65	<10	268	<1	<10	0.32	13	101	3.87	0.81	1.82	0.13	0.019	<10	9	<10	
26875	2.6	1.5	1720	115	<2	94	<2	48	3.67	<10	91	<1	<10	2.07	15	122	2.55	0.49	1.41	0.16	0.013	<10	4	<10	
26876	1.0	<0.5	631	160	<2	87	4	24	4.92	<10	19	<1	<10	3.37	15	279	1.95	0.11	1.34	0.22	0.009	<10	2	<10	
26877	0.6	<0.5	422	89	<2	101	5	16	6.98	<10	13	<1	<10	5.34	11	112	1.14	0.04	0.56	0.41	0.006	<10	1	<10	

Activation Laboratories Ltd. Report: A08-4526

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26678	0.6	< 0.5	411	50	< 2	60	7	12	6.93	< 10	16	< 1	< 10	5.38	8	57	0.70	0.05	0.35	0.50	0.006	< 10	1	< 10
26679	0.5	< 0.5	263	88	< 2	164	20	17	3.63	< 10	17	< 1	< 10	2.80	14	60	1.04	0.04	0.66	0.26	0.005	< 10	1	< 10
26680	< 0.2	< 0.5	13	124	< 2	10	7	31	0.20	< 10	116	< 1	< 10	6.88	< 1	22	0.10	0.01	3.81	0.03	0.003	< 10	< 1	< 10
26681	1.7	0.6	826	60	< 2	325	18	18	4.27	< 10	16	< 1	< 10	3.21	35	42	1.45	0.03	0.38	0.37	0.011	< 10	1	< 10
26682	0.6	< 0.5	325	29	< 2	299	24	13	4.62	< 10	36	< 1	< 10	3.50	18	80	1.31	0.09	0.44	0.41	0.013	< 10	1	< 10
26683	0.5	0.5	256	38	< 2	166	29	17	3.50	< 10	49	< 1	< 10	2.87	14	118	1.09	0.11	0.54	0.40	0.017	< 10	1	< 10
26684	2.0	1.6	2300	38	< 2	1400	34	40	4.18	< 10	38	< 1	< 10	2.72	81	206	5.71	0.31	0.81	0.39	0.014	< 10	1	< 10
26685	4.4	1.9	3780	38	< 2	4710	27	39	3.88	< 10	16	< 1	< 10	2.10	289	187	14.9	0.28	0.74	0.28	0.011	< 10	1	< 10
26686	0.3	0.5	136	509	3	25	16	107	1.58	< 10	46	< 1	< 10	0.54	7	40	1.95	0.32	1.22	0.06	0.039	< 10	1	< 10
26687	0.4	1.8	1060	277	< 2	29	2	458	1.71	< 10	48	< 1	< 10	0.34	11	72	5.39	0.58	1.16	0.03	0.020	< 10	1	< 10
26688	< 0.2	0.8	60	875	2	37	< 2	257	3.48	< 10	318	< 1	< 10	0.48	18	66	5.95	1.51	2.30	0.11	0.055	< 10	11	< 10
26689	< 0.2	0.8	57	955	< 2	45	< 2	283	3.69	< 10	471	< 1	< 10	0.50	19	71	6.06	1.98	2.35	0.16	0.056	< 10	14	< 10
26690	< 0.2	< 0.5	7	210	< 2	5	42	44	0.10	10	128	< 1	< 10	9.11	< 1	19	0.20	0.04	5.65	0.02	0.006	< 10	< 1	< 10
26691	< 0.2	0.6	23	406	< 2	47	2	376	3.22	< 10	870	< 1	< 10	0.59	20	68	5.55	1.75	2.42	0.21	0.070	< 10	13	< 10
26692	< 0.2	1.1	82	375	< 2	28	3	378	2.78	< 10	612	< 1	< 10	1.14	20	37	5.23	0.96	1.84	0.13	0.123	< 10	8	< 10
26693	< 0.2	2.4	96	526	2	26	2	560	2.10	< 10	322	< 1	< 10	0.94	18	49	6.34	0.75	1.70	0.07	0.089	< 10	9	< 10
26694	0.2	6.5	114	376	< 2	45	6	1480	3.27	< 10	773	< 1	< 10	1.15	21	38	5.71	1.44	2.42	0.15	0.086	< 10	12	12
26695	0.4	6.7	296	283	< 2	43	3	1750	3.21	< 10	821	< 1	< 10	0.91	22	47	5.43	1.43	2.65	0.21	0.089	< 10	10	15
28082	< 0.2	< 0.5	43	549	5	12	3	120	2.09	< 10	80	1	< 10	0.37	8	38	3.60	0.28	1.70	0.05	0.033	< 10	2	< 10
28083	0.2	1.4	203	800	2	45	7	243	2.42	< 10	76	1	< 10	0.61	13	43	4.71	0.22	2.14	0.04	0.061	< 10	3	< 10
28084	< 0.2	< 0.5	8	424	< 2	5	11	79	1.28	< 10	39	1	< 10	0.31	3	42	1.99	0.18	1.21	0.03	0.010	< 10	1	< 10
28085	0.5	1.0	560	493	< 2	32	4	233	2.55	< 10	527	< 1	< 10	0.56	15	54	5.01	1.09	1.59	0.10	0.048	< 10	8	< 10
28086	0.2	0.7	202	383	3	27	2	330	2.81	< 10	317	< 1	< 10	0.28	16	54	5.82	1.30	1.98	0.07	0.049	< 10	5	< 10
28521	7.7	3.2	5980	140	< 2	1490	18	174	2.75	< 10	19	< 1	10	0.86	125	26	13.2	0.87	2.05	0.16	0.016	< 10	7	< 10
28522	0.6	0.8	197	174	2	30	8	56	1.97	< 10	238	< 1	< 10	0.15	7	72	2.37	0.50	1.38	0.06	0.010	< 10	4	< 10
28523	0.8	0.8	331	188	< 2	29	6	81	2.43	< 10	183	< 1	< 10	0.16	7	62	2.74	0.78	1.73	0.07	0.009	< 10	3	< 10
28524	0.8	0.8	211	178	< 2	35	11	73	2.47	< 10	245	< 1	< 10	0.38	8	59	2.86	0.72	1.74	0.11	0.010	< 10	5	< 10
28525	3.5	1.7	1220	184	< 2	135	25	112	4.64	< 10	178	< 1	< 10	2.19	21	63	4.61	1.00	2.25	0.23	0.020	< 10	7	< 10
28526	2.6	1.7	1340	199	< 2	262	28	152	4.17	< 10	96	< 1	< 10	1.98	27	60	5.91	0.79	1.93	0.19	0.031	< 10	5	< 10
28527	0.6	1.0	431	319	< 2	96	61	137	4.63	< 10	178	< 1	< 10	2.10	24	48	5.72	1.13	2.13	0.22	0.029	< 10	9	< 10
28528	0.7	0.6	97	266	< 2	29	16	85	3.28	< 10	237	< 1	< 10	0.95	13	63	4.26	0.98	2.06	0.12	0.039	< 10	9	< 10
28529	< 0.2	< 0.5	18	258	< 2	20	4	47	2.83	< 10	148	< 1	< 10	0.29	8	56	3.68	0.54	2.09	0.06	0.034	< 10	6	< 10
28530	< 0.2	< 0.5	4	136	< 2	3	3	56	0.07	< 10	82	< 1	< 10	7.70	< 1	19	0.11	0.01	4.45	0.02	0.004	< 10	< 1	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24265	11	0.05	131	< 10	9	2	1.230
24266	36	0.09	126	< 10	9	2	0.466
24267	38	0.03	105	< 10	6	2	0.815
24268	29	0.05	98	< 10	6	3	1.497
24269	6	0.06	60	< 10	3	4	6.253
24270	41	0.01	26	< 10	< 1	1	0.441
24271	16	0.06	113	< 10	10	2	0.336
24272	26	0.07	96	< 10	9	2	0.318
24273	13	0.11	96	< 10	9	2	0.391
24274	7	0.07	31	< 10	9	5	5.766
24938	5	0.04	25	< 10	4	1	0.346
24937	3	0.01	19	< 10	1	1	0.329
24938	2	0.01	10	< 10	< 1	1	0.377
24939	88	0.01	9	< 10	< 1	< 1	0.173
24940	44	0.01	26	< 10	< 1	1	0.483
24941	43	0.01	11	< 10	1	< 1	0.066
24942	67	0.01	8	< 10	< 1	< 1	0.129
24943	27	0.01	8	< 10	< 1	< 1	0.110
24944	29	0.01	10	< 10	< 1	< 1	0.100
24945	15	0.01	30	< 10	< 1	1	1.763
26627	15	0.01	14	< 10	< 1	1	2.906
26628	6	0.02	12	< 10	< 1	1	2.621
26626	49	0.02	11	< 10	< 1	1	2.877
26630	88	< 0.01	1	< 10	< 1	< 1	0.107
26631	84	0.03	14	< 10	< 1	1	1.111
26632	74	< 0.01	6	< 10	< 1	1	2.210
26633	49	0.01	30	< 10	1	1	3.049
26634	26	0.04	57	< 10	1	2	3.365
26635	13	0.08	98	< 10	3	4	5.171
26636	14	0.07	62	< 10	4	2	1.566
26783	88	0.02	12	< 10	< 1	< 1	0.131
26784	91	0.01	10	< 10	< 1	< 1	0.162
26785	78	0.03	16	< 10	< 1	< 1	0.219
26786	80	0.02	13	< 10	< 1	< 1	0.169
26787	84	0.02	15	< 10	< 1	< 1	0.075
26788	79	0.03	26	< 10	1	< 1	0.276
26789	74	0.01	7	< 10	< 1	< 1	0.373
26790	42	0.01	26	< 10	< 1	1	0.465
26791	1	0.01	7	< 10	< 1	1	0.721
26792	8	0.01	9	< 10	< 1	< 1	0.336
26865	8	0.05	16	< 10	2	1	0.020
26867	9	0.11	32	< 10	2	1	0.800
26868	15	0.13	30	< 10	2	1	0.250
26869	14	0.12	31	< 10	2	1	0.386
26870	43	0.01	26	< 10	< 1	1	0.475
26871	19	0.10	29	< 10	2	1	0.459
26872	15	0.11	39	< 10	3	1	0.401
26873	15	0.11	34	< 10	3	1	0.345
26874	10	0.10	29	< 10	2	1	0.367
26875	31	0.05	24	< 10	1	1	0.435
26876	54	0.03	36	< 10	1	1	0.212
26877	95	0.01	10	< 10	< 1	< 1	0.235

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26678	108	0.01	8	< 10	< 1	< 1	0.157
26679	60	0.01	6	< 10	< 1	< 1	0.245
26680	69	< 0.01	1	< 10	< 1	< 1	0.065
26681	77	0.01	6	< 10	< 1	< 1	0.709
26682	69	0.01	9	< 10	< 1	1	0.563
26683	53	0.02	13	< 10	1	1	0.326
26684	49	0.04	30	< 10	1	2	2.727
26685	36	0.03	43	< 10	< 1	3	5.234
26656	7	0.08	8	< 10	11	4	0.075
26647	5	0.03	4	< 10	8	3	1.141
26658	18	0.20	85	< 10	4	2	0.021
26659	13	0.24	123	< 10	3	2	0.049
26660	115	0.01	3	< 10	1	< 1	0.088
26661	12	0.24	140	< 10	3	2	0.012
26662	18	0.17	99	< 10	8	2	0.171
26663	8	0.16	76	< 10	8	3	0.164
26664	20	0.21	134	< 10	6	2	0.242
26665	17	0.19	161	< 10	5	2	0.189
26682	14	0.06	22	< 10	10	2	0.032
26683	11	0.07	46	< 10	11	3	0.190
26684	9	0.03	2	< 10	15	4	0.016
26685	5	0.16	73	< 10	4	3	0.094
26686	8	0.17	64	< 10	3	3	0.244
26621	20	0.10	83	< 10	1	3	4.436
26622	13	0.06	12	< 10	1	1	0.094
26623	17	0.06	13	< 10	1	1	0.103
26624	12	0.08	21	< 10	1	1	0.111
26625	27	0.11	97	< 10	1	1	0.027
26626	25	0.09	64	< 10	3	1	1.324
26627	34	0.12	56	< 10	2	1	0.711
26628	25	0.11	60	< 10	4	2	0.039
26629	10	0.10	26	< 10	8	3	0.012
26630	62	< 0.01	1	< 10	< 1	< 1	0.069

Activation Laboratories Ltd. Report: A08-4526

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.7	3.3	1130	748	14	33	590	524	0.28	362	221	1	1480	0.75	8	6	24.0	0.02	0.13	0.06	0.036	74	1	26
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.2	0.6	656.0	131	332	47	45	54	2.67	102	43	1	19	0.87	15	57	4.00	1.38	1.66	0.12	0.125	< 10	6	< 10
GXR-4 Cert	4.00	0.860	650.0	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	16.7	4.4	74	985	< 2	15	707	517	2.81	14	1290	1	< 10	0.76	9	24	2.00	0.90	0.51	0.24	0.056	31	4	< 10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	70	1000	2	24	92	117	6.22	242	864	1	< 10	0.14	14	82	5.26	0.83	0.39	0.13	0.033	< 10	20	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2600			2180											5.25							
OREAS 13P Cert			2500			2280											7.58							
24938 Ong	0.4	< 0.5	254	163	< 2	329	3	23	1.45	< 10	4	< 1	< 10	0.19	45	76	2.20	< 0.01	2.14	0.02	0.008	< 10	1	< 10
24938 Dup	0.4	< 0.5	244	164	< 2	340	4	24	1.52	< 10	5	< 1	< 10	0.20	47	78	2.25	< 0.01	2.20	0.02	0.008	< 10	1	< 10
26633 Ong	6.5	13.2	4090	69	< 2	1340	304	230	3.68	< 10	9	< 1	< 10	2.91	105	124	6.77	0.02	0.68	0.27	0.014	< 10	1	< 10
26633 Dup	6.2	13.2	3980	67	< 2	1270	296	223	3.82	< 10	9	< 1	< 10	2.88	102	119	6.44	0.02	0.68	0.28	0.014	< 10	1	< 10
26762 Ong	0.4	< 0.5	232	105	< 2	276	2	18	0.97	< 10	6	< 1	< 10	0.61	32	46	1.59	0.02	1.18	0.02	0.009	< 10	1	< 10
26762 Dup	0.4	< 0.5	222	105	< 2	261	< 2	18	0.85	< 10	6	< 1	< 10	0.61	33	46	1.59	0.01	1.18	0.02	0.009	< 10	< 1	< 10
26876 Ong	0.5	< 0.5	278	87	< 2	163	18	17	3.00	< 10	17	< 1	< 10	2.78	13	49	1.03	0.04	0.55	0.26	0.005	< 10	1	< 10
26876 Dup	0.5	< 0.5	287	89	< 2	164	22	17	3.66	< 10	17	< 1	< 10	2.82	15	51	1.06	0.04	0.57	0.26	0.005	< 10	1	< 10
28522 Ong	0.5	0.8	195	166	2	29	8	64	1.94	< 10	234	< 1	< 10	0.14	7	70	2.32	0.49	1.35	0.09	0.010	< 10	4	< 10
28522 Dup	0.7	0.8	196	181	2	31	8	68	2.00	< 10	241	< 1	< 10	0.15	7	74	2.41	0.50	1.41	0.09	0.011	< 10	4	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	4	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	4	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	138		74	132	22	13	0.208
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	71		82	14	11	9	1.940
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	52		45	< 10	10	11	0.036
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	29		167	< 10	6	14	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
24938 Orig	2	0.01	10	< 10	< 1	1	0.369
24938 Dup	2	0.01	10	< 10	< 1	1	0.384
28633 Orig	50	0.01	30	< 10	1	1	3.126
28633 Dup	47	0.01	29	< 10	1	1	2.972
28752 Orig	8	0.01	9	< 10	< 1	< 1	0.338
28752 Dup	6	0.01	9	< 10	< 1	< 1	0.335
28875 Orig	58	0.01	6	< 10	< 1	< 1	0.243
28875 Dup	62	0.01	6	< 10	< 1	< 1	0.248
28522 Orig	12	0.05	12	< 10	1	1	0.094
28522 Dup	13	0.07	12	< 10	1	1	0.093
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 28-Jul-08
Invoice No.: A08-4525
Invoice Date: 27-Aug-08
Your Reference: DOSSIER 22902

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

70 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4525**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

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Activation Laboratories Ltd. Report: A08-4525

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
28531	< 0.2	0.7	6	298	< 2	31	6	55	4.41	< 10	282	< 1	< 10	0.55	13	142	4.39	1.01	2.13	0.20	0.030	< 10	9	< 10
28532	< 0.2	0.5	3	219	2	12	6	34	3.63	< 10	169	< 1	< 10	0.67	10	80	3.36	0.84	1.78	0.18	0.027	< 10	5	< 10
28533	< 0.2	0.8	32	304	4	47	10	38	3.87	< 10	147	< 1	< 10	1.43	12	87	3.25	0.77	1.72	0.20	0.021	< 10	5	< 10
28534	0.2	0.6	77	430	< 2	56	11	50	3.37	< 10	67	< 1	< 10	2.32	18	90	3.36	0.39	1.86	0.12	0.023	< 10	7	< 10
28535	< 0.2	0.6	39	359	< 2	37	7	56	4.69	< 10	220	< 1	< 10	1.44	16	122	4.18	1.05	2.27	0.22	0.034	< 10	10	< 10
28536	0.3	1.0	178	478	< 2	90	14	103	5.28	< 10	189	< 1	< 10	1.75	23	94	8.20	1.81	3.25	0.17	0.050	< 10	12	< 10
28537	0.6	0.8	274	438	< 2	31	10	94	4.23	< 10	247	< 1	< 10	0.94	13	109	4.94	1.37	2.23	0.22	0.034	< 10	11	< 10
28538	< 0.2	< 0.5	98	299	3	16	8	46	2.82	< 10	106	< 1	< 10	0.62	7	104	2.69	0.77	1.31	0.14	0.032	< 10	3	< 10
28539	< 0.2	0.6	53	315	< 2	9	5	49	3.44	< 10	127	< 1	< 10	0.91	9	92	3.47	0.96	1.73	0.11	0.033	< 10	4	< 10
28540	0.4	0.5	1300	376	< 2	1270	9	27	5.07	< 10	19	< 1	< 10	2.62	46	117	3.86	0.03	3.30	0.36	0.093	< 10	3	< 10
28541	< 0.2	< 0.5	248	297	3	9	6	43	3.09	< 10	109	< 1	< 10	0.92	9	90	2.88	0.83	1.80	0.10	0.038	< 10	3	< 10
28542	< 0.2	0.5	187	255	< 2	7	3	48	2.69	< 10	130	< 1	< 10	0.40	8	71	3.10	0.94	1.84	0.07	0.025	< 10	3	< 10
28543	< 0.2	< 0.5	4	245	2	10	4	37	2.64	< 10	108	< 1	< 10	0.57	5	97	2.00	0.77	1.43	0.10	0.007	< 10	2	< 10
28544	< 0.2	< 0.5	19	312	3	14	8	35	2.84	< 10	101	< 1	< 10	1.33	7	144	2.20	0.54	1.50	0.12	0.016	< 10	3	< 10
28545	0.4	0.6	185	576	< 2	95	10	79	2.74	< 10	35	< 1	< 10	2.22	31	198	5.02	2.55	2.48	0.07	0.028	< 10	11	< 10
28546	< 0.2	< 0.5	3	245	3	22	3	27	2.31	< 10	87	< 1	< 10	0.78	7	98	1.81	0.53	1.33	0.13	0.009	< 10	2	< 10
28547	< 0.2	< 0.5	10	260	4	13	4	35	2.81	< 10	119	< 1	< 10	0.76	5	84	2.01	0.71	1.46	0.18	0.008	< 10	2	< 10
28548	< 0.2	< 0.5	4	293	3	10	4	50	2.37	< 10	94	< 1	< 10	0.60	5	100	2.30	0.50	1.69	0.10	0.011	< 10	3	< 10
28549	< 0.2	0.5	41	288	5	7	37	58	1.89	< 10	51	< 1	< 10	1.05	5	80	2.02	2.24	1.09	0.08	0.018	< 10	3	< 10
28550	< 0.2	< 0.5	2	206	< 2	1	9	25	0.05	< 10	117	< 1	< 10	11.1	< 1	26	0.68	0.02	6.98	0.03	0.007	< 10	< 1	< 10
28552	14.8	8.3	> 10000	193	< 2	1420	74	358	2.72	< 10	21	< 1	< 10	2.25	112	267	8.51	0.11	1.84	0.14	0.008	< 10	4	< 10
28553	5.8	4.6	2010	370	< 2	917	225	277	3.87	< 10	32	< 1	< 10	3.33	67	288	5.05	0.18	1.80	0.28	0.021	< 10	5	< 10
28524	5.1	3.8	2080	322	< 2	802	188	130	3.41	< 10	44	< 1	< 10	2.99	58	511	5.11	0.20	2.24	0.25	0.031	< 10	4	< 10
28525	12.8	20.9	7880	218	< 2	1300	160	283	3.62	< 10	11	< 1	< 10	2.82	91	338	8.51	0.03	2.31	0.17	0.011	< 10	4	< 10
28526	2.7	3.4	2330	187	< 2	1450	121	115	4.01	< 10	11	< 1	< 10	2.52	145	245	6.96	0.03	2.29	0.14	0.006	< 10	3	< 10
28527	9.5	19.6	6130	199	< 2	1430	163	192	3.72	< 10	9	< 1	< 10	2.94	114	241	7.96	0.02	1.67	0.17	0.008	< 10	5	< 10
28528	10.3	15.2	8890	234	< 2	1140	137	215	3.82	< 10	9	< 1	< 10	2.78	86	398	8.12	0.02	2.17	0.18	0.019	< 10	4	< 10
28529	15.5	14.1	8900	235	< 2	2070	55	282	3.05	< 10	10	< 1	< 10	1.50	136	765	7.85	0.03	3.15	0.06	0.009	< 10	3	< 10
28530	0.3	< 0.5	175	220	< 2	53	6	43	0.13	< 10	108	< 1	< 10	11.8	3	60	0.28	0.03	7.62	0.03	0.004	< 10	< 1	< 10
28531	3.5	4.8	2570	249	< 2	1720	71	218	4.13	< 10	16	< 1	< 10	2.03	97	900	7.71	0.06	3.71	0.11	0.007	< 10	2	< 10
28532	3.4	3.7	2840	159	< 2	1600	116	278	3.01	< 10	11	< 1	< 10	2.20	96	396	8.07	0.03	1.86	0.16	0.009	< 10	3	< 10
28533	85.9	71.2	> 10000	86	< 2	5790	63	2520	0.81	< 10	21	< 1	< 10	0.20	258	32	33.8	0.08	0.37	0.05	0.019	< 10	1	24
28534	23.7	18.8	> 10000	183	< 2	4620	133	725	1.43	< 10	12	< 1	< 10	0.18	220	37	25.6	0.36	1.15	0.06	0.021	< 10	4	13
28535	29.0	31.6	9590	388	< 2	2740	413	1300	2.46	< 10	11	< 1	< 10	0.40	151	61	21.7	0.38	2.13	0.07	0.023	< 10	7	15
28536	34.9	25.9	> 10000	422	< 2	1100	798	1150	3.10	< 10	22	< 1	< 10	0.72	85	68	14.1	0.56	2.58	0.09	0.030	< 10	7	18
28537	45.6	66.5	> 10000	226	< 2	4980	131	2440	1.13	< 10	6	< 1	< 10	0.43	253	39	29.0	0.14	0.83	0.05	0.016	< 10	2	17
28538	19.7	36.1	> 10000	314	3	1340	244	1460	2.65	< 10	12	< 1	< 10	0.52	99	92	13.7	0.53	1.78	0.16	0.017	< 10	6	18
28539	24.6	28.7	> 10000	308	< 2	3610	450	1070	2.18	< 10	10	< 1	< 10	0.67	420	69	22.6	0.24	1.24	0.16	0.020	< 10	3	16
28540	0.6	0.6	1280	356	< 2	1400	4	33	5.30	< 10	22	< 1	< 10	2.78	52	130	4.19	0.04	3.62	0.37	0.003	< 10	3	10
28541	40.5	36.4	> 10000	740	< 2	2710	593	1400	2.88	< 10	13	< 1	< 10	0.98	198	87	21.4	0.14	1.95	0.07	0.027	< 10	6	27
28542	20.7	63.3	> 10000	780	< 2	1280	455	2380	2.65	< 10	9	< 1	< 10	2.31	435	79	20.6	0.03	2.33	0.02	0.022	< 10	7	35
28543	0.7	2.2	373	463	< 2	47	31	137	3.36	< 10	157	< 1	< 10	1.05	20	47	5.98	0.51	2.95	0.08	0.075	< 10	11	< 10
28544	1.7	2.3	1720	586	< 2	75	45	147	2.84	< 10	15	< 1	< 10	2.53	37	98	7.03	0.05	1.77	0.10	0.053	< 10	13	< 10
28545	0.2	1.1	184	594	< 2	55	17	53	2.52	< 10	15	< 1	< 10	2.55	30	101	6.44	0.04	1.74	0.06	0.047	< 10	12	< 10
28546	< 0.2	0.8	198	514	< 2	49	17	84	3.27	< 10	202	< 1	< 10	1.80	21	149	6.14	0.51	2.39	0.13	0.092	< 10	12	< 10
28547	< 0.2	0.8	41	540	2	14	13	111	4.41	< 10	474	< 1	< 10	0.67	16	90	5.19	1.03	2.74	0.18	0.093	< 10	12	< 10
28548	< 0.2	0.8	50	547	< 2	13	19	98	4.66	< 10	334	< 1	< 10	0.86	15	72	6.16	1.17	3.12	0.16	0.087	< 10	11	< 10
28549	< 0.2	0.8	38	492	2	12	14	130	4.45	< 10	321	< 1	< 10	0.47	15	95	5.28	1.18	3.23	0.13	0.093	< 10	10	< 10
28550	0.8	2.5	8360	299	< 2	> 0000	8	42	0.48	< 10	2	< 1	< 10	0.38	487	30	31.2	0.11	0.17	0.09	0.047	< 10	3	< 10
28551	0.2	0.8	102	531	< 2	40	38	88	3.99	< 10	109	< 1	< 10	1.46	20	167	4.89	0.70	2.81	0.08	0.075	< 10	10	< 10
28553	13.9	5.7	3950	310	< 2	166	35	75	5.16	< 10	22	< 1	< 10	4.49	28	102	3.89	0.07	1.08	0.27	0.036	< 10	7	< 10
28554	13.2	6.2	3750	170	2	144	43	68	5.67	< 10	23	< 1	< 10	4.59	23	103	3.40	0.15	0.82	0.30	0.04			

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
29055	7.5	3.5	2430	250	< 2	90	28	59	5.77	< 10	25	< 1	< 10	4.72	19	107	3.33	0.15	1.09	0.39	0.036	< 10	7	< 10
29066	3.5	1.4	409	411	< 2	56	39	35	2.60	< 10	12	< 1	< 10	2.66	19	115	2.96	0.03	1.30	0.48	0.029	< 10	9	< 10
29057	6.8	2.1	789	438	< 2	61	42	48	2.15	< 10	11	< 1	< 10	2.32	21	111	3.07	0.03	1.20	0.37	0.028	< 10	9	< 10
29068	1.2	0.6	237	442	< 2	60	30	37	2.62	< 10	11	< 1	< 10	2.90	20	115	3.22	0.03	1.32	0.50	0.033	< 10	9	< 10
29059	0.8	0.6	209	433	< 2	64	21	36	2.88	< 10	16	< 1	< 10	2.94	21	111	3.27	0.06	1.36	0.48	0.032	< 10	9	< 10
29060	< 0.2	< 0.5	12	207	< 2	5	5	11	0.15	< 10	241	< 1	< 10	11.1	1	28	0.20	0.01	7.00	0.06	0.008	< 10	< 1	< 10
29061	0.5	0.7	160	400	< 2	62	15	39	3.66	< 10	43	< 1	< 10	3.63	19	113	3.27	0.15	1.48	0.36	0.030	< 10	9	< 10
29071	6.4	1.8	962	453	< 2	76	53	50	4.15	< 10	17	< 1	23	4.02	25	122	3.68	0.05	1.47	0.43	0.032	< 10	9	< 10
29073	< 0.2	< 0.5	9	190	3	15	9	25	3.16	< 10	108	< 1	< 10	1.25	5	95	1.73	0.79	1.48	0.16	0.004	< 10	1	< 10
29074	< 0.2	< 0.5	9	201	< 2	13	8	33	3.28	< 10	110	< 1	< 10	1.04	5	114	1.86	0.93	1.78	0.16	0.004	< 10	2	< 10
29075	< 0.2	< 0.5	4	244	2	15	13	41	3.88	< 10	120	< 1	< 10	1.52	8	105	2.24	1.02	2.04	0.18	0.004	< 10	2	< 10
29076	< 0.2	< 0.5	4	341	< 2	18	15	50	3.66	< 10	192	< 1	< 10	1.14	8	110	3.07	1.20	2.15	0.27	0.004	< 10	2	< 10
29077	< 0.2	0.6	22	449	3	18	39	98	3.49	< 10	134	< 1	< 10	1.70	9	101	3.27	0.92	2.80	0.10	0.005	< 10	3	< 10
29078	< 0.2	< 0.5	25	326	< 2	26	58	81	2.42	< 10	93	< 1	< 10	1.41	20	105	2.09	0.36	1.60	0.10	0.010	< 10	3	< 10
29079	4.0	8.5	4810	312	2	1960	81	456	1.88	< 10	14	< 1	< 10	0.37	423	56	14.3	0.71	1.53	0.06	0.012	< 10	4	17
29080	< 0.2	< 0.5	109	178	< 2	31	9	17	0.07	< 10	77	< 1	< 10	10.1	5	60	0.30	0.03	5.64	0.03	0.003	< 10	< 1	< 10
29081	17.2	22.1	> 10000	122	< 2	8400	170	745	0.34	< 10	5	< 1	< 10	0.12	439	34	45.1	0.06	0.17	0.03	0.009	14	< 1	13
29082	11.6	13.6	> 10000	115	< 2	9480	136	470	0.20	< 10	6	< 1	< 10	0.12	461	36	46.3	0.02	0.12	0.02	0.006	13	< 1	11

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
28531	22	0.19	30	< 10	5	11	0.008
28532	23	0.15	18	< 10	9	14	0.008
28533	24	0.18	17	< 10	8	12	0.033
28534	27	0.18	59	< 10	9	5	0.108
28535	23	0.20	56	< 10	8	7	0.077
28536	29	0.25	101	< 10	7	3	0.124
28537	14	0.21	47	< 10	7	11	0.102
28538	16	0.15	7	< 10	11	17	0.049
28539	23	0.18	15	< 10	12	16	0.059
28540	64	0.03	39	< 10	< 1	2	0.406
28541	18	0.17	17	< 10	12	16	0.050
28542	18	0.15	10	< 10	10	16	0.029
28543	15	0.08	4	< 10	12	18	0.005
28544	17	0.11	13	< 10	18	18	0.026
28545	19	0.22	119	< 10	7	4	0.185
28546	14	0.08	10	< 10	15	16	0.009
28547	13	0.08	7	< 10	15	16	0.013
28548	11	0.10	7	< 10	16	16	0.077
28549	10	0.10	7	< 10	16	14	0.111
28550	89	< 0.01	< 1	< 10	< 1	< 1	0.081
28552	38	0.04	28	< 10	1	3	4.236
28553	104	0.07	35	< 10	2	5	1.702
28524	58	0.07	47	< 10	2	5	1.324
28525	47	0.03	29	< 10	1	3	2.838
28526	47	0.03	29	< 10	< 1	2	2.911
28527	53	0.03	37	< 10	1	3	3.562
28528	54	0.05	33	< 10	2	3	2.430
28529	18	0.05	36	< 10	1	3	3.131
28530	92	< 0.01	2	< 10	1	< 1	0.168
28531	31	0.04	32	< 10	1	2	2.362
28532	41	0.03	49	< 10	1	3	3.798
28533	4	0.02	80	28	< 1	8	2.834
28534	4	0.07	63	< 10	2	9	5.957
28535	4	0.07	92	16	2	7	5.859
28536	7	0.09	67	11	3	5	3.563
28537	4	0.03	48	23	2	10	9.083
28538	12	0.09	70	< 10	2	5	4.360
28539	19	0.05	76	< 10	3	6	6.950
28540	71	0.03	42	< 10	< 1	1	0.409
28541	12	0.08	104	16	5	6	6.851
28542	4	0.04	77	16	7	7	6.579
28543	12	0.20	86	< 10	9	8	0.197
28544	28	0.19	197	< 10	10	4	0.799
28545	25	0.16	107	< 10	8	3	0.204
28546	19	0.20	136	< 10	8	6	0.185
28547	17	0.22	63	< 10	9	6	0.090
28548	28	0.21	78	< 10	10	6	0.122
28549	16	0.19	77	< 10	8	6	0.085
28550	15	0.11	56	< 10	15	18	12.11
28551	19	0.20	95	< 10	10	6	0.199
29053	88	0.10	82	< 10	4	2	0.997
29054	89	0.06	87	< 10	5	2	0.815

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
29055	90	0.10	92	< 10	6	2	0.456
29066	57	0.13	79	< 10	6	3	0.166
29067	43	0.11	78	< 10	6	3	0.247
29068	69	0.11	81	< 10	6	2	0.204
29069	70	0.12	81	< 10	6	2	0.206
29080	83	0.01	4	< 10	1	< 1	0.084
29081	55	0.14	84	< 10	6	2	0.142
29071	119	0.13	86	< 10	6	2	0.270
29073	17	0.07	4	< 10	5	13	0.011
29074	15	0.07	4	< 10	6	19	0.010
29075	24	0.07	3	< 10	9	13	0.013
29076	16	0.08	3	< 10	7	16	0.011
29077	13	0.08	4	< 10	20	16	0.028
29078	8	0.08	9	< 10	13	13	0.015
29079	6	0.11	43	< 10	11	10	3.696
29080	104	< 0.01	< 1	< 10	< 1	< 1	0.176
29081	3	0.02	117	< 10	< 1	11	7.724
29082	2	0.01	107	< 10	< 1	12	6.416

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.4	3.3	1160	797	15	34	891	643	0.32	386	227	<1	1420	0.81	8	7	26.1	0.02	0.14	0.07	0.043	75	1	31
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	0.8	6530	137	338	43	43	58	2.68	165	18	1	22	0.99	15	58	3.60	1.44	1.72	0.13	0.126	<10	6	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	17.6	4.4	78	1000	<2	18	720	534	3.35	10	1300	1	<10	0.83	9	26	2.15	0.55	0.54	0.32	0.055	22	4	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	1.2	76	1120	<2	28	102	129	7.30	237	97	<1	<10	0.17	15	90	5.91	1.02	0.45	0.19	0.035	<10	22	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2640				2270										6.18							
OREAS 13P Cert			2500				2280										7.58							
28543 Ong	< 0.2	< 0.5	4	242	2	9	4	37	2.55	< 10	106	< 1	< 10	0.57	5	95	1.97	0.76	1.41	0.10	0.007	< 10	2	< 10
28543 Dup	< 0.2	< 0.5	4	247	3	10	5	37	2.52	< 10	109	< 1	< 10	0.58	5	98	2.02	0.78	1.44	0.10	0.007	< 10	2	< 10
28628 Ong	10.1	15.0	6860	233	<2	1130	138	213	3.61	<10	10	<1	<10	2.78	65	397	6.09	0.02	2.16	0.16	0.018	<10	4	<10
28628 Dup	10.5	15.5	6930	234	<2	1160	137	217	3.63	<10	8	<1	<10	2.78	57	400	6.14	0.02	2.17	0.17	0.019	<10	4	<10
28641 Ong	40.9	37.2	> 10000	751	<2	2700	515	1440	2.71	<10	11	<1	14	0.97	200	65	20.7	0.14	1.57	0.07	0.027	<10	6	28
28641 Dup	40.1	35.7	> 10000	728	<2	2720	491	1350	2.65	<10	12	<1	24	0.94	195	64	22.1	0.14	1.62	0.07	0.027	<10	6	26
29055 Ong	3.5	1.4	494	411	<2	54	39	36	2.65	<10	12	<1	<10	2.66	19	115	2.97	0.03	1.30	0.47	0.030	<10	9	<10
29055 Dup	3.5	1.4	415	412	<2	55	39	36	2.64	<10	11	<1	<10	2.65	18	114	2.93	0.03	1.29	0.48	0.029	<10	9	<10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	190		77	157	24	16	0.215
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	75		85	13	12	10	1.981
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	93		47	< 10	11	10	0.036
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	34		192	< 10	7	8	0.017
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
28543 Orig	14	0.08	4	< 10	12	18	0.005
28543 Dup	15	0.08	4	< 10	12	18	0.005
28628 Orig	54	0.05	34	< 10	2	3	2.406
28628 Dup	54	0.05	33	< 10	2	3	2.404
28641 Orig	12	0.05	105	16	5	6	6.123
28641 Dup	12	0.05	103	17	5	7	7.579
29055 Orig	58	0.13	80	< 10	6	3	0.166
29055 Dup	57	0.13	79	< 10	6	3	0.165
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 28-Jul-08
Invoice No.: A08-4525 (i)
Invoice Date: 03-Dec-08
Your Reference: DOSSIER 22902

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

70 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4525 (i)**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Analyte Symbol	Ni	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FUS- Na2O2	AR-ICP	AR-ICP
28645		188	51
28646		115	48
28647		41	12
28648		46	8
28649		33	6
28650	1.94	7910	> 10000
28651		95	34
29053		4030	168
29054		3700	154
29055		2230	89
29056		438	51

Quality Control

Analyte Symbol	Ni	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FJS- Ni2O2	AR-ICP	AR-ICP

GXR-1 Meas		1030	26
GXR-1 Cert		1110	41.0
UNG-1 Meas	0.024		
UNG-1 Cert	0.0247		
GXR-4 Meas		6530	40
GXR-4 Cert		6520	42.0
GXR-2 Meas		85	16
GXR-2 Cert		76.0	21.0
CHR-PT+ Meas	0.572		
CHR-PT+ Cert	0.589		
GXR-6 Meas		74	20
GXR-6 Cert		69.0	27.0
OREAS 13P Meas		2420	2360
OREAS 13P Cert		2500	2260
DTS-2b Meas	0.374		
DTS-2b Cert	0.378		
2864b Orig		199	61
2864b Dup		182	50
Method Blank Method		< 1	< 1
Blank			
Method Blank Method		< 1	< 1
Blank			
Method Blank Method		< 1	< 1
Blank			
Method Blank Method	< 0.005		
Blank			
Method Blank Method	< 0.005		
Blank			



Date Submitted: 28-Jul-08
Invoice No.: A08-4524
Invoice Date: 02-Sep-08
Your Reference: DOSSIER 22903

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

65 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4524**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Activation Laboratories Ltd. Report: A08-4524

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
30169	0.2	0.7	186	359	4	87	14	113	1.76	<10	99	1	<10	0.25	13	107	3.64	0.46	1.30	0.04	0.023	<10	4	<10
30160	0.5	0.5	1410	313	<2	1340	19	28	4.68	<10	17	<1	<10	2.36	47	113	3.90	0.03	3.20	0.32	0.003	<10	2	<10
30191	0.2	1.7	129	377	<2	118	117	179	2.01	<10	82	1	<10	0.48	13	106	3.72	0.43	1.54	0.03	0.014	<10	4	<10
30162	9.9	17.4	8900	765	<2	356	148	1180	3.28	<10	14	1	<10	0.86	85	84	12.3	0.07	3.04	0.01	0.029	<10	9	36
30193	31.2	5.3	>10000	348	<2	3920	32	297	1.76	<10	7	<1	<10	0.76	438	64	30.9	0.03	1.68	0.01	0.031	<10	3	26
30154	10.8	6.2	>10000	533	<2	975	27	451	2.25	<10	21	1	<10	1.22	27	44	11.8	0.10	2.12	0.02	0.060	<10	6	21
30195	2.0	1.4	3640	420	<2	94	10	119	2.16	<10	49	<1	<10	0.82	13	78	4.68	0.18	1.82	0.03	0.033	<10	5	<10
30196	<2.0	0.5	106	393	3	40	5	55	2.00	<10	85	<1	<10	0.83	7	76	3.09	0.29	1.74	0.06	0.044	<10	4	<10
30197	<0.2	1.0	73	701	<2	147	<2	80	3.22	<10	23	<1	<10	3.09	26	184	7.54	0.14	3.75	0.02	0.023	<10	13	<10
30168	<0.2	0.9	62	578	<2	83	4	62	2.60	<10	19	<1	<10	1.47	24	182	6.74	0.13	2.91	0.04	0.025	<10	10	<10
30628	1.9	1.7	1260	348	<2	81	2	109	3.83	<10	337	<1	<10	0.53	18	90	5.04	1.33	2.82	0.15	0.012	<10	9	<10
30625	0.3	0.7	181	330	<2	167	3	59	5.32	<10	122	<1	<10	3.33	23	332	3.99	0.61	2.66	0.30	0.006	<10	9	<10
30630	0.4	0.5	1420	311	<2	1360	9	29	4.77	<10	17	<1	<10	2.34	47	114	3.85	0.03	3.18	0.01	0.003	<10	2	<10
30631	1.1	<0.5	490	100	<2	104	10	32	7.06	<10	34	<1	<10	6.44	13	155	1.55	0.22	0.97	0.51	0.037	<10	2	<10
30632	12.5	5.0	5280	72	<2	197	6	85	5.23	<10	17	<1	<10	4.21	28	116	2.06	1.0	0.66	0.45	0.024	<10	2	<10
30633	16.4	6.7	8340	350	<2	580	9	99	4.44	11	7	<1	<10	2.37	141	132	6.84	0.01	2.28	0.26	0.016	<10	4	<10
30634	0.7	0.5	406	72	<2	104	8	12	6.37	<10	8	<1	<10	5.14	11	93	0.96	0.01	0.54	0.46	0.006	<10	2	<10
30635	0.7	<0.5	299	80	<2	60	16	13	6.14	<10	8	<1	<10	4.85	8	102	0.88	0.02	0.68	0.60	0.008	<10	3	<10
30638	1.9	0.8	759	68	<2	181	28	27	8.74	<10	9	<1	<10	5.11	14	79	0.93	0.02	0.57	0.51	0.007	<10	2	<10
30637	1.6	<0.5	501	113	<2	43	8	19	5.37	<10	11	<1	<10	4.27	8	114	1.06	0.03	0.78	0.46	0.007	<10	3	<10
30661	0.2	0.8	17	705	2	12	11	119	3.66	<10	285	1	<10	1.45	15	51	4.93	1.42	2.53	0.13	0.069	<10	9	<10
30652	<0.2	0.5	61	541	<2	8	10	75	3.08	<10	245	<1	<10	1.40	9	57	3.17	0.82	1.72	0.16	0.046	<10	7	<10
30653	<0.2	<0.5	10	536	2	7	7	55	2.37	<10	247	1	<10	1.08	4	62	2.22	0.50	1.46	0.13	0.007	<10	4	<10
30654	<0.2	<0.5	6	521	<2	8	7	61	2.18	<10	201	1	<10	1.28	5	92	2.43	0.59	1.63	0.08	0.010	<10	4	<10
30655	<0.2	<0.5	7	527	2	7	5	51	2.09	<10	93	<1	<10	1.06	3	87	2.18	0.47	1.55	0.08	0.006	<10	2	<10
30656	<0.2	<0.5	4	505	2	6	6	66	2.26	<10	71	<1	<10	0.82	3	86	2.16	0.43	2.11	0.04	0.006	<10	2	<10
30657	<0.2	<0.5	4	332	3	5	4	70	1.98	<10	83	1	<10	0.32	2	91	1.92	0.40	1.98	0.03	0.005	<10	1	<10
30658	<0.2	0.5	4	559	3	7	4	100	2.37	<10	46	<1	<10	0.58	4	63	3.11	0.31	2.62	0.02	0.012	<10	2	<10
30659	<0.2	<0.5	6	405	3	7	5	58	1.94	<10	42	1	<10	0.28	3	85	2.34	0.27	1.43	0.02	0.014	<10	1	<10
30660	<0.2	<0.5	12	182	<2	8	8	12	0.06	<10	100	<1	<10	8.69	1	33	0.15	0.02	5.61	0.02	0.010	<10	<1	<10
30601	0.5	0.6	490	236	2	112	3	33	3.83	<10	197	1	<10	1.16	21	266	3.61	0.75	2.63	0.24	0.011	<10	8	<10
30602	0.2	<0.5	214	90	<2	135	6	11	7.75	<10	27	<1	<10	6.18	15	95	1.26	0.03	0.57	0.55	0.007	<10	2	<10
30603	0.3	<0.5	203	70	<2	63	5	8	7.01	<10	24	<1	<10	5.63	10	103	0.93	0.04	0.51	0.56	0.008	<10	2	<10
30604	0.3	<0.5	113	107	<2	73	5	14	6.02	<10	46	<1	<10	4.31	11	233	1.73	0.24	1.32	0.51	0.006	<10	2	<10
30605	0.3	0.5	212	108	<2	154	3	26	5.74	<10	104	<1	<10	3.20	21	505	2.89	0.74	2.38	0.55	0.007	<10	5	<10
30606	<4	1.5	2280	57	<2	108	8	23	6.19	<10	14	<1	<10	4.80	12	105	1.06	0.04	0.51	0.64	0.009	<10	2	<10
30607	0.5	<0.5	240	67	<2	74	3	8	5.87	<10	20	<1	<10	4.74	9	117	0.86	0.06	0.57	0.59	0.010	<10	2	<10
30608	0.2	<0.5	163	95	<2	69	4	9	4.68	<10	19	<1	<10	3.86	9	71	0.89	0.01	0.54	0.58	0.009	<10	3	<10
30610	<0.2	<0.5	7	161	<2	5	8	6	0.13	<10	65	<1	<10	6.73	<1	22	0.06	0.01	5.24	0.03	0.013	<10	<1	<10
30722	0.7	<0.5	779	219	<2	112	18	17	5.38	<10	8	<1	<10	4.32	16	125	1.98	0.03	1.53	0.25	0.014	<10	3	<10
30723	<0.2	<0.5	125	204	<2	97	16	17	4.68	<10	7	<1	<10	3.97	13	202	1.77	0.03	1.55	0.23	0.003	<10	3	<10
30724	0.3	0.6	1960	331	<2	436	<2	37	2.43	<10	9	<1	<10	1.33	45	232	3.74	0.02	3.64	0.06	0.008	<10	2	<10
30725	0.2	0.6	916	458	<2	468	2	43	3.03	<10	8	<1	<10	1.69	49	226	4.29	0.03	3.88	0.04	0.010	<10	2	<10
30726	<0.2	<0.5	56	224	<2	95	16	21	4.52	<10	9	<1	<10	3.39	14	77	1.93	0.03	1.74	0.26	0.009	<10	3	<10
30727	0.2	<0.5	110	209	<2	77	17	20	4.62	<10	9	<1	<10	3.87	14	75	1.76	0.02	1.31	0.47	0.011	<10	4	<10
30728	<0.2	<0.5	71	185	<2	68	18	23	4.99	<10	11	<1	<10	4.01	14	73	1.63	0.02	1.19	0.52	0.010	<10	4	<10
30729	0.2	<0.5	164	192	<2	63	24	23	4.63	<10	10	<1	<10	3.78	10	69	1.64	0.02	1.08	0.62	0.012	<10	3	<10
30730	<0.2	<0.5	7	178	<2	5	6	30	0.18	<10	36	<1	<10	0.88	1	24	0.14	0.01	5.05	0.03	0.003	<10	<1	<10
30731	2.1	2.0	1780	216	<2	1200	31	126	3.81	<10	10	<1	<10	2.65	83	141	6.55	0.02	1.88	0.21	0.006	<10	3	<10
30698	1.5	1.9	984	777	5	167	8	222	4.02	<10	15	1	<10	0.31	27	40	10.3	0.13	4.84	0.01	0.024	<10	6	<10
30700	0.8	2.4	8140	227	<2	>10000	7	35	0.42	<10	11	<1	<10	0.33	452	28	31.1	0.10	0.15	0.07	0.045	<10	3	<10
30701	<0.2	0.6	53	738	4	26	6	189	3.16	<10	35	<1	<10	0.36	9	60	7.56	0.30	4.15	0.03	0.025	<10	6	<10

Activation Laboratories Ltd. Report: A08-4524

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30702	< 0.2	0.7	10	406	< 2	10	4	83	2.65	< 10	122	1	< 10	0.23	11	73	4.30	0.49	2.16	0.03	0.069	< 10	5	< 10
30703	< 0.2	0.7	5	490	2	10	7	85	2.60	< 10	48	2	< 10	0.53	9	64	4.36	0.22	2.33	0.03	0.068	< 10	5	< 10
N#1	< 0.2	0.8	4	441	< 2	10	3	83	2.68	< 10	82	1	< 10	0.09	6	82	4.15	0.22	2.40	0.02	0.012	< 10	3	< 10
30648	0.5	1.1	184	118	2	348	27	20	1.62	< 10	12	< 1	< 10	1.39	16	140	1.16	0.03	0.82	0.10	0.009	< 10	2	< 10
30649	0.7	1.5	409	130	< 2	601	17	74	2.36	< 10	20	< 1	< 10	0.34	29	120	3.45	0.08	2.97	0.05	0.003	< 10	4	< 10
30650	0.8	2.3	8250	221	< 2	> 10000	7	37	0.41	< 10	13	< 1	< 10	0.32	449	28	31.5	0.10	0.14	0.07	0.045	< 10	3	< 10
30651	17.7	6.4	8780	170	< 2	3410	53	112	2.79	< 10	13	< 1	< 10	1.32	348	99	13.6	0.09	1.14	0.21	0.016	< 10	2	< 10
30652	18.8	11.9	6780	129	< 2	2180	83	127	4.21	< 10	17	< 1	< 10	2.37	116	114	9.07	0.03	0.82	0.36	0.012	< 10	2	< 10
30653	16.8	10.8	5250	140	< 2	501	148	120	5.29	< 10	13	< 1	36	4.05	40	60	3.12	0.03	0.84	0.37	0.014	< 10	3	< 10
30654	13.9	10.1	3070	146	< 2	646	107	156	3.93	< 10	40	< 1	41	2.62	40	606	3.12	0.03	1.80	0.29	0.017	< 10	4	< 10
30655	29.0	13.0	9480	174	2	595	56	225	2.23	< 10	38	< 1	< 10	1.03	39	366	4.60	0.19	1.81	0.17	0.017	< 10	3	< 10
30656	19.0	27.6	5460	92	3	369	12	372	0.67	< 10	30	< 1	< 10	0.20	38	164	3.16	0.09	0.67	0.04	0.017	< 10	2	< 10
30657	6.2	4.8	1410	93	3	210	19	135	1.33	< 10	125	< 1	< 10	0.36	26	118	3.13	0.37	1.20	0.11	0.053	< 10	5	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30169	5	0.15	13	< 10	18	15	0.285
30160	60	0.02	37	< 10	< 1	1	0.429
30161	12	0.14	19	< 10	15	12	0.167
30162	5	0.15	134	< 10	17	4	2.561
30163	2	0.07	100	< 10	8	8	7.803
30164	5	0.16	71	< 10	16	7	3.395
30165	4	0.12	32	< 10	18	10	0.563
30166	7	0.07	11	< 10	17	10	0.039
30167	11	0.17	135	< 10	16	4	0.151
30168	13	0.14	116	< 10	9	3	0.456
30628	13	0.14	41	< 10	3	2	0.209
30629	53	0.08	64	< 10	2	1	0.079
30630	59	0.02	88	< 10	< 1	1	0.426
30631	119	0.05	24	< 10	4	1	0.172
30632	91	0.03	17	< 10	2	1	0.922
30633	61	0.03	43	< 10	2	4	2.863
30634	112	0.02	14	< 10	1	< 1	0.187
30635	109	0.03	17	< 10	1	< 1	0.099
30636	128	0.02	14	< 10	1	< 1	0.206
30637	86	0.03	17	< 10	1	< 1	0.095
30661	17	0.27	59	< 10	11	5	0.075
30662	21	0.18	38	< 10	10	8	0.077
30663	11	0.10	3	< 10	14	17	0.011
30664	10	0.10	6	< 10	15	16	0.014
30665	8	0.07	2	< 10	14	16	0.014
30666	9	0.07	1	< 10	14	13	0.008
30667	5	0.04	1	< 10	12	21	0.008
30668	5	0.04	3	< 10	14	14	0.025
30669	4	0.03	2	< 10	19	14	0.056
30660	65	< 0.01	1	< 10	1	1	0.085
30601	25	0.11	64	< 10	3	2	0.182
30602	113	0.03	19	< 10	1	1	0.251
30603	97	0.03	16	< 10	1	1	0.140
30604	66	0.05	37	< 10	1	1	0.062
30605	51	0.11	83	< 10	1	1	0.114
30606	84	0.02	14	< 10	1	< 1	0.366
30607	87	0.03	16	< 10	1	< 1	0.110
30608	93	0.03	16	< 10	1	< 1	0.113
30610	79	< 0.01	1	< 10	< 1	< 1	0.066
30722	123	0.08	29	< 10	2	1	0.199
30723	108	0.04	25	< 10	1	1	0.062
30724	8	0.04	29	< 10	1	1	0.403
30725	11	0.06	37	< 10	1	2	0.366
30726	61	0.05	29	< 10	1	1	0.043
30727	93	0.05	33	< 10	1	1	0.099
30728	65	0.05	31	< 10	1	1	0.072
30729	91	0.05	30	< 10	1	1	0.062
30730	110	< 0.01	2	< 10	1	< 1	0.074
30731	53	0.02	22	< 10	1	2	2.352
30698	3	0.07	22	< 10	18	8	2.100
30700	14	0.08	55	< 10	14	15	5.730
30701	5	0.10	15	< 10	15	9	0.185

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30702	5	0.08	44	< 10	7	6	0.037
30703	6	0.03	49	< 10	12	5	0.046
W#1	3	0.03	10	< 10	6	11	0.014
30648	9	0.02	10	< 10	2	1	0.253
30649	4	0.05	29	< 10	2	2	0.540
30650	14	0.08	55	< 10	14	15	6.620
30651	17	0.04	37	< 10	2	4	6.384
30652	39	0.02	36	< 10	1	3	3.876
30653	58	0.02	17	< 10	1	1	1.326
30654	38	0.07	66	< 10	1	1	0.887
30655	13	0.08	44	< 10	3	2	1.757
30656	6	0.04	21	< 10	2	2	1.555
30657	6	0.11	67	< 10	4	2	0.721

Activation Laboratories Ltd. Report: A08-4524

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.021	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.8	3.1	1230	758	14	36	534	584	0.31	362	324	1	1430	0.75	8	6	25.1	0.03	0.13	0.07	0.042	76	1	32
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	750	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.2	0.8	6560	143	318	40	42	54	2.70	101	24	1	13	0.95	15	54	3.51	1.41	1.63	0.13	0.118	< 10	6	< 10
GXR-4 Cert	4.00	0.860	6020	155	310	42.0	52.0	73.0	7.20	98.0	1540	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.3	4.7	91	1050	< 2	19	751	539	3.45	14	1310	1	< 10	0.83	10	26	2.40	0.62	0.57	0.31	0.060	29	5	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.890	0.930	8.50	38.0	1.86	1.37	0.850	0.556	0.105	49.0	6.88	1.70
GXR-6 Meas	0.2	1.2	78	1070	< 2	28	96	124	7.07	239	925	1	< 10	0.16	15	87	7.03	1.00	0.45	0.17	0.035	< 10	21	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	96.0	5.58	1.87	0.606	0.104	0.0350	3.50	27.6	1.70
OREAS 13P Meas			2870			2430											6.58							
OREAS 13P Cert			2500			2260											7.58							
30153 Ong	31.7	5.4	> 10000	350	< 2	4030	31	238	1.78	< 10	7	< 1	< 10	0.77	440	58	31.7	0.03	1.55	0.01	0.031	< 10	3	26
30153 Dup	30.6	5.2	> 10000	346	< 2	3810	33	295	1.74	< 10	7	< 1	< 10	0.76	435	70	30.2	0.03	1.55	0.01	0.031	< 10	3	26
30668 Ong	< 0.2	0.5	4	550	3	7	4	98	2.43	< 10	45	< 1	< 10	0.57	4	81	3.06	0.30	2.68	0.02	0.011	< 10	2	< 10
30668 Dup	< 0.2	0.5	4	588	3	6	4	131	2.30	< 10	47	< 1	< 10	0.59	4	84	3.15	0.31	2.68	0.02	0.012	< 10	2	< 10
30724 Ong	0.3	0.5	1950	325	< 2	432	2	36	2.40	< 10	6	< 1	< 10	1.31	45	228	3.66	0.02	3.48	0.05	0.008	< 10	2	< 10
30724 Dup	0.3	0.8	1980	336	< 2	438	< 2	37	2.47	< 10	7	< 1	< 10	1.34	45	236	3.81	0.02	3.60	0.05	0.008	< 10	2	< 10
N#1 Ong	< 0.2	0.6	4	437	< 2	10	3	81	2.56	< 10	81	1	< 10	0.09	6	80	4.11	0.22	2.45	0.02	0.011	< 10	3	< 10
N#1 Dup	< 0.2	0.7	4	445	< 2	10	3	84	2.57	< 10	83	1	< 10	0.10	6	85	4.20	0.23	2.52	0.02	0.012	< 10	3	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	188		74	155	23	13	0.203
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	77		81	18	11	11	1.877
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	132		51	< 10	11	10	0.040
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	31		182	< 10	6	8	0.017
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
30193 Orig	2	0.07	102	< 10	8	9	7.999
30193 Dup	2	0.07	96	< 10	8	8	7.608
30668 Orig	5	0.04	3	< 10	14	14	0.023
30668 Dup	5	0.04	3	< 10	14	14	0.028
30724 Orig	7	0.04	26	< 10	1	1	0.396
30724 Dup	8	0.04	29	< 10	1	1	0.409
N#1 Orig	3	0.03	10	< 10	6	11	0.014
N#1 Dup	3	0.03	10	< 10	6	10	0.014
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 28-Jul-08
Invoice No.: A08-4518
Invoice Date: 14-Aug-08
Your Reference: DOSSIER 22918

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

80 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4518**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4518

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
26763	< 0.2	< 0.5	71	165	2	37	3	16	4.38	< 10	12	< 1	< 10	3.31	9	82	1.18	0.01	0.64	0.48	0.018	< 10	3	< 10	
26764	< 0.2	< 0.5	74	102	< 2	42	6	10	5.40	< 10	13	< 1	< 10	3.86	10	136	0.96	0.02	0.66	0.58	0.011	< 10	3	< 10	
26765	< 0.2	< 0.5	154	83	< 2	60	< 2	7	5.58	< 10	17	< 1	< 10	3.73	10	145	0.81	0.03	0.58	0.64	0.010	< 10	2	< 10	
26766	< 0.2	< 0.5	153	55	< 2	117	< 2	8	6.44	< 10	22	< 1	< 10	4.72	13	142	0.91	0.03	0.44	0.77	0.012	< 10	1	< 10	
26767	0.4	< 0.5	48	85	< 2	86	2	17	6.35	< 10	20	< 1	< 10	4.82	11	117	1.03	0.04	0.84	0.56	0.013	< 10	2	< 10	
26768	0.4	< 0.5	446	148	< 2	60	4	21	5.28	< 10	13	< 1	< 10	3.91	12	84	1.23	0.01	0.81	0.65	0.019	< 10	2	< 10	
26769	0.2	< 0.5	245	102	< 2	49	3	8	4.33	< 10	13	< 1	< 10	3.49	7	87	0.82	0.01	0.62	0.51	0.005	< 10	2	< 10	
26770	0.5	0.5	1490	302	< 2	1320	6	26	5.06	< 10	16	< 1	< 10	2.30	45	113	3.66	0.03	3.05	0.33	0.003	< 10	2	< 10	
26771	< 0.2	< 0.5	123	45	< 2	35	4	8	6.21	< 10	95	< 1	< 10	4.49	5	134	0.62	0.13	0.57	0.49	0.006	< 10	1	< 10	
26772	< 0.2	< 0.5	9	32	< 2	47	4	12	6.81	< 10	115	< 1	< 10	5.02	6	212	0.66	0.22	0.68	0.44	0.004	< 10	1	< 10	
29103	< 0.2	< 0.5	8	483	< 2	8	4	4	45	0.75	< 10	15	2	< 10	0.19	1	122	0.77	0.15	0.27	0.04	0.011	< 10	1	18
29104	< 0.2	< 0.5	2	785	3	9	4	114	1.69	< 10	45	2	< 10	0.36	5	71	2.17	0.23	1.31	0.03	0.015	< 10	2	< 10	
29105	< 0.2	0.6	66	589	7	10	5	185	2.43	< 10	137	1	< 10	0.13	9	98	4.35	0.84	1.66	0.06	0.015	< 10	4	< 10	
29106	< 0.2	0.9	76	867	5	50	3	282	3.65	< 10	227	< 1	< 10	0.42	16	129	6.84	1.32	2.39	0.09	0.041	< 10	9	< 10	
29107	< 0.2	0.6	11	446	2	85	< 2	317	4.05	< 10	354	< 1	< 10	0.27	19	93	6.51	1.42	2.59	0.11	0.055	< 10	11	< 10	
29108	< 0.2	0.8	3	516	2	62	3	324	4.65	< 10	350	1	< 10	0.30	19	109	6.19	1.16	2.69	0.12	0.056	< 10	10	< 10	
29109	< 0.2	0.8	3	502	2	54	4	329	4.05	< 10	382	< 1	< 10	0.19	18	95	6.07	1.22	2.65	0.11	0.062	< 10	11	< 10	
29110	< 0.2	< 0.5	1	190	< 2	4	4	17	0.16	< 10	100	< 1	< 10	9.07	1	60	0.27	0.04	5.17	0.02	0.006	< 10	< 1	< 10	
29111	< 0.2	1.4	222	788	4	87	7	423	4.78	< 10	484	< 1	< 10	0.50	23	111	7.09	1.47	3.40	0.14	0.058	< 10	11	< 10	
29112	0.3	3.0	101	581	< 2	54	13	412	5.11	< 10	504	< 1	< 10	1.15	22	84	5.76	1.61	2.93	0.31	0.060	< 10	13	< 10	
30611	0.3	< 0.5	125	133	< 2	42	21	25	4.95	< 10	23	< 1	< 10	3.80	8	128	1.03	0.06	0.70	0.57	0.011	< 10	3	< 10	
30612	0.5	< 0.5	219	190	< 2	64	38	32	5.10	< 10	15	< 1	< 10	3.71	10	149	1.41	0.05	0.92	0.66	0.010	< 10	4	< 10	
30613	1.2	1.4	657	158	< 2	213	73	51	4.61	< 10	21	< 1	< 10	3.31	20	121	1.90	0.12	0.82	0.59	0.009	< 10	3	< 10	
30614	2.2	2.3	1690	121	< 2	926	69	63	3.65	< 10	20	< 1	< 10	2.48	52	102	4.03	0.09	0.71	0.54	0.006	< 10	3	< 10	
30615	4.6	3.4	3380	156	< 2	1310	83	103	3.61	< 10	22	< 1	< 10	2.50	59	114	5.51	0.14	0.90	0.53	0.006	< 10	3	< 10	
30616	5.7	4.7	4060	152	< 2	1810	86	154	3.13	< 10	27	< 1	< 10	2.01	117	167	7.30	0.16	0.93	0.47	0.006	< 10	3	< 10	
30617	7.8	5.5	5180	146	< 2	1870	98	188	2.51	< 10	21	< 1	< 10	1.74	133	172	7.44	0.19	0.91	0.36	0.006	< 10	3	< 10	
30618	6.7	5.8	4150	175	< 2	1490	96	216	2.46	< 10	33	< 1	< 10	1.72	69	200	6.63	0.26	1.17	0.35	0.007	< 10	4	< 10	
30619	6.8	4.4	4010	159	< 2	1800	102	186	2.59	< 10	23	< 1	< 10	1.80	52	161	7.00	0.14	0.84	0.37	0.008	< 10	3	< 10	
30920	0.5	0.5	1510	322	< 2	1400	7	30	5.30	< 10	17	< 1	< 10	2.44	50	122	3.97	0.03	3.27	0.34	0.003	< 10	2	< 10	
29033	0.9	1.3	863	214	2	73	8	180	5.45	< 10	138	< 1	< 10	2.81	15	91	4.46	0.85	1.95	0.27	0.16	< 10	6	< 10	
29034	2.8	4.7	2670	191	2	80	9	274	4.38	< 10	98	1	< 10	1.70	14	150	4.36	0.46	1.44	0.21	0.012	< 10	3	< 10	
29035	6.4	2.4	3060	47	< 2	855	27	42	7.66	< 10	31	< 1	< 10	5.65	54	206	2.66	0.15	0.61	0.76	0.012	< 10	2	< 10	
29036	6.6	2.9	3490	50	< 2	702	24	44	7.24	< 10	63	< 1	< 10	4.69	50	212	3.41	0.22	0.76	0.72	0.012	< 10	2	< 10	
29037	2.31	1.5	1080	105	< 2	264	28	19	6.26	< 10	11	< 1	< 10	4.73	23	92	1.52	0.02	0.62	0.48	0.006	< 10	3	< 10	
29038	3.5	1.1	1410	95	< 2	345	32	19	6.04	< 10	10	< 1	< 10	4.91	29	54	1.74	0.01	0.51	0.41	0.005	< 10	2	< 10	
29039	6.0	4.0	3430	85	< 2	1000	27	46	6.75	< 10	17	< 1	< 10	6.12	82	106	4.74	0.04	0.64	0.51	0.007	< 10	4	< 10	
29040	0.5	0.5	1590	327	< 2	1430	5	30	5.33	< 10	17	< 1	< 10	2.45	49	122	4.03	0.03	3.34	0.33	0.004	< 10	3	< 10	
29041	2.7	1.4	2010	162	< 2	911	21	37	6.35	< 10	41	< 1	< 10	3.69	102	136	6.82	0.22	1.46	0.90	0.008	< 10	3	< 10	
29042	4.2	1.9	4090	189	< 2	1180	22	53	5.44	< 10	24	< 1	< 10	3.05	124	127	7.09	0.11	1.38	0.41	0.008	< 10	3	< 10	
26503	1.6	0.6	606	71	< 2	97	9	17	4.45	< 10	11	< 1	< 10	2.63	15	59	2.97	0.01	0.41	0.66	0.029	< 10	2	< 10	
26604	9.1	3.2	4220	246	< 2	688	< 2	46	1.67	< 10	10	< 1	< 10	0.72	102	60	13.3	0.04	1.22	0.06	0.031	< 10	3	< 10	
26505	2.3	1.2	896	245	< 2	111	2	52	3.42	< 10	23	< 1	< 10	0.30	43	77	5.75	0.07	2.85	0.07	0.012	< 10	5	< 10	
26506	10.5	1.4	4090	334	< 2	234	< 2	35	2.23	< 10	30	< 1	< 10	0.67	38	46	8.15	0.13	2.73	0.03	0.009	< 10	4	< 10	
26607	3.8	0.7	1920	374	< 2	46	7	38	3.49	< 10	49	< 1	< 10	0.69	19	63	6.65	0.17	3.65	0.06	0.003	< 10	5	< 10	
26508	11.3	3.3	2780	408	< 2	154	8	103	2.44	< 10	6	< 1	< 10	1.42	37	55	3.07	0.01	1.77	0.04	0.006	< 10	4	< 10	
26609	20.1	4.2	4930	676	< 2	307	6	82	4.88	< 10	27	< 1	< 10	0.87	35	63	6.78	0.23	5.39	0.06	0.059	< 10	11	< 10	
26610	0.3	< 0.5	76	158	< 2	5	4	57	0.10	< 10	50	< 1	< 10	8.07	< 1	18	0.15	0.21	4.07	0.01	0.009	< 10	< 1	< 10	
26611	0.4	0.5	109	285	< 2	20	< 2	28	3.63	< 10	79	< 1	< 10	0.10	5	106	3.56	0.28	4.05	0.04	0.005	< 10	4	< 10	
26612	14.9	10.1	4270	206	< 2	503	8	109	3.04	< 10	40	< 1	< 10	0.40	58	79	6.79	0.15	2.81	0.07	0.027	< 10	5	< 10	
24915	0.2	0.7	288	276	< 2	188	< 2	28	2.34	< 10	186	< 1	< 10	1.71	33	112	4.08	0.11	2.14	0.18	0.048	< 10	7	< 10	
24916	< 0.2	< 0.5	261	213	< 2	54	< 2	22	1.66	< 10	128	< 1	< 10	1.91	26	48	2.82	0.02	0.91	0.16	0.069	< 10	6	< 10	

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
24917	< 0.2	< 0.5	77	77	< 2	49	3	10	6.82	< 10	16	< 1	< 10	4.83	8	172	1.14	0.03	0.71	0.60	0.011	< 10	2	< 10
24918	< 0.2	< 0.5	262	257	< 2	121	4	29	2.28	< 10	43	< 1	< 10	2.06	23	106	2.34	0.05	1.48	0.09	0.046	< 10	4	< 10
24919	< 0.2	0.5	214	432	< 2	38	< 2	34	3.37	< 10	66	< 1	< 10	3.11	24	68	4.18	0.11	1.22	0.44	0.054	< 10	11	< 10
24920	0.5	0.5	1570	327	< 2	1430	8	31	5.38	< 10	17	< 1	< 10	2.46	49	122	4.15	0.03	3.35	0.34	0.003	< 10	2	< 10
24921	< 0.2	0.7	190	542	< 2	46	2	35	2.83	< 10	125	< 1	< 10	2.95	28	82	5.15	0.27	1.49	0.41	0.051	< 10	13	< 10
24922	0.9	0.8	1240	262	< 2	107	2	47	2.59	< 10	65	< 1	< 10	2.41	31	90	3.58	0.11	1.52	0.22	0.044	< 10	7	< 10
24923	0.4	0.7	622	435	< 2	35	4	35	3.21	< 10	42	< 1	< 10	3.21	23	65	3.96	0.06	1.15	0.36	0.052	< 10	10	< 10
24924	0.2	0.5	390	392	< 2	47	3	30	3.13	< 10	24	< 1	< 10	3.31	32	74	4.22	0.03	1.07	0.26	0.054	< 10	10	< 10
30671	< 0.2	< 0.5	107	79	< 2	49	< 2	10	3.06	< 10	34	< 1	< 10	2.22	8	179	1.06	0.05	0.62	0.31	0.003	< 10	1	< 10
30672	< 0.2	< 0.5	130	97	< 2	66	< 2	13	4.03	< 10	79	< 1	< 10	2.80	12	325	1.62	0.13	1.00	0.46	0.006	< 10	2	< 10
30673	< 0.2	< 0.5	19	54	< 2	30	< 2	7	3.81	< 10	18	< 1	< 10	2.88	4	174	0.59	0.02	0.45	0.53	0.008	< 10	1	< 10
30674	< 0.2	< 0.5	249	64	< 2	57	< 2	11	4.51	< 10	12	< 1	< 10	3.18	8	147	0.84	0.03	0.65	0.51	0.005	< 10	1	< 10
30675	< 0.2	< 0.5	21	296	< 2	59	< 2	24	2.96	< 10	9	< 1	< 10	2.01	14	109	2.15	0.02	1.59	0.25	0.002	< 10	2	< 10
30676	< 0.2	< 0.5	300	106	< 2	29	< 2	7	2.58	< 10	8	< 1	< 10	2.22	5	93	0.73	0.01	0.65	0.40	0.032	< 10	3	< 10
30677	< 0.2	< 0.5	124	56	3	13	2	10	1.10	< 10	71	< 1	< 10	0.15	6	125	1.02	0.18	0.76	0.08	0.020	< 10	2	< 10
30678	0.3	< 0.5	156	122	< 2	57	2	67	4.38	< 10	156	< 1	< 10	2.19	12	267	2.61	0.57	1.89	0.27	0.014	< 10	4	< 10
30679	0.2	0.5	404	157	5	20	2	91	2.05	< 10	216	< 1	< 10	0.13	10	115	2.86	0.51	1.39	0.10	0.012	< 10	2	< 10
30680	< 0.2	< 0.5	6	194	< 2	2	6	8	0.04	< 10	283	< 1	< 10	10.4	< 1	16	0.11	0.01	5.78	0.04	0.010	< 10	< 1	< 10
27984	0.5	0.5	177	71	< 2	117	16	21	3.73	< 10	38	< 1	< 10	2.28	16	144	1.39	0.13	0.98	0.61	0.004	< 10	2	< 10
27985	0.6	< 0.5	195	42	< 2	104	17	14	3.77	< 10	20	< 1	< 10	2.45	14	84	0.81	0.04	0.45	0.66	0.004	< 10	2	< 10
27986	0.3	0.6	145	48	< 2	130	24	10	4.60	< 10	12	< 1	< 10	3.13	16	68	0.95	0.02	0.30	0.75	0.004	< 10	2	< 10
27987	1.0	0.9	764	58	< 2	254	28	27	5.14	< 10	24	< 1	< 10	3.35	27	96	2.44	0.09	0.75	0.63	0.006	< 10	2	< 10
27988	2.3	1.3	2180	54	< 2	752	20	49	3.66	< 10	41	< 1	< 10	2.35	73	141	4.83	0.24	1.05	0.45	0.007	< 10	3	< 10
27989	1.0	1.9	794	38	< 2	6190	14	26	3.20	< 10	10	< 1	< 10	1.79	305	89	25.8	0.09	0.48	0.38	0.004	< 10	1	< 10
27990	0.5	< 0.5	1460	316	< 2	1380	8	32	5.07	< 10	17	< 1	< 10	2.40	49	116	3.82	0.03	3.18	0.32	0.003	< 10	2	< 10
27991	12.6	1.8	9720	54	< 2	2190	19	91	4.23	< 10	14	< 1	< 10	2.12	147	93	11.5	0.29	0.66	0.44	0.007	< 10	3	< 10
27992	3.5	2.1	1910	50	< 2	7450	< 2	32	1.30	< 10	6	< 1	< 10	0.40	410	68	26.2	0.27	0.83	0.11	0.004	< 10	3	< 10
27993	15.7	5.2	> 10000	68	< 2	4910	8	196	2.02	< 10	10	< 1	< 10	0.62	282	79	22.1	0.16	0.97	0.15	0.010	< 10	2	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26763	49	0.03	20	< 10	1	1	0.079
26764	58	0.03	19	< 10	1	1	0.037
26765	76	0.03	13	< 10	1	< 1	0.079
26766	101	0.02	11	< 10	1	< 1	0.208
26767	97	0.03	14	< 10	1	< 1	0.081
26768	79	0.05	19	< 10	1	1	0.134
26769	73	0.02	14	< 10	1	< 1	0.073
26770	55	0.02	36	< 10	< 1	1	0.413
26771	61	0.02	14	< 10	< 1	< 1	0.043
26772	41	0.03	16	< 10	< 1	< 1	0.029
29103	3	0.01	2	< 10	22	7	0.004
29104	4	0.08	7	< 10	22	14	0.005
29105	7	0.11	10	< 10	7	10	0.049
29106	7	0.21	78	< 10	8	7	0.057
29107	6	0.22	126	< 10	5	5	0.019
29108	7	0.17	126	< 10	4	6	0.008
29109	4	0.18	137	< 10	5	5	0.016
29110	120	0.01	3	< 10	1	< 1	0.002
29111	11	0.21	129	< 10	5	5	0.128
29112	24	0.25	139	< 10	4	4	0.026
30911	70	0.03	20	< 10	1	1	0.061
30912	75	0.04	26	< 10	1	1	0.091
30913	82	0.03	22	< 10	1	1	0.460
30914	56	0.03	19	< 10	1	1	1.966
30915	55	0.04	26	< 10	1	2	2.729
30916	43	0.04	34	< 10	1	2	3.722
30917	34	0.05	35	< 10	1	2	3.994
30918	32	0.05	41	< 10	1	2	3.191
30919	38	0.04	34	< 10	1	2	3.902
30920	60	0.02	39	< 10	< 1	1	0.455
29033	30	0.13	61	< 10	4	3	0.686
29034	22	0.09	38	< 10	3	4	1.076
29035	77	0.02	19	< 10	1	1	1.331
29036	75	0.03	30	< 10	2	2	1.813
29037	94	0.01	13	< 10	1	1	0.537
29038	89	0.01	9	< 10	< 1	1	0.778
29039	79	0.03	22	< 10	1	2	2.361
29040	61	0.02	39	< 10	< 1	1	0.449
29041	56	0.05	47	< 10	1	2	2.388
29042	31	0.03	38	< 10	1	2	3.153
26503	48	0.05	171	< 10	2	1	0.342
26504	12	0.07	122	< 10	2	5	3.541
26505	17	0.04	57	< 10	2	2	1.379
26506	8	0.05	22	< 10	5	4	3.319
26507	10	0.03	19	< 10	4	3	0.783
26508	18	0.04	44	< 10	1	1	0.584
26509	20	0.05	104	< 10	6	2	0.677
26510	79	< 0.01	2	< 10	< 1	< 1	0.073
26511	13	0.03	6	< 10	5	3	0.022
26512	12	0.05	67	< 10	3	2	2.055
24915	13	0.15	87	< 10	7	3	0.383
24916	28	0.15	73	< 10	8	2	0.536

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24917	112	0.04	19	< 10	1	< 1	0.078
24918	28	0.30	57	< 10	10	2	0.157
24919	60	0.14	114	< 10	9	2	0.298
24920	60	0.02	39	< 10	< 1	1	0.453
24921	43	0.23	140	< 10	11	2	0.386
24922	38	0.27	86	< 10	9	2	0.503
24923	61	0.16	112	< 10	10	2	0.387
24924	68	0.23	106	< 10	10	2	0.693
30671	59	0.04	16	< 10	2	2	0.096
30672	72	0.05	27	< 10	2	1	0.127
30673	81	0.03	11	< 10	1	2	0.025
30674	67	0.02	10	< 10	< 1	1	0.055
30675	32	0.01	14	< 10	< 1	1	0.018
30676	47	0.02	14	< 10	3	2	0.057
30677	5	0.08	11	< 10	5	4	0.067
30678	34	0.09	47	< 10	3	2	0.120
30679	5	0.10	19	< 10	4	6	0.442
30680	101	< 0.01	1	< 10	1	< 1	0.083
27984	68	0.05	45	< 10	< 1	< 1	0.159
27985	66	0.04	40	< 10	< 1	< 1	0.164
27986	76	0.04	30	< 10	< 1	< 1	0.259
27987	64	0.05	83	< 10	1	1	0.708
27988	39	0.06	117	< 10	1	1	2.132
27989	36	0.02	62	< 10	< 1	6	7.811
27990	59	0.02	36	< 10	< 1	1	0.444
27991	41	0.06	82	< 10	1	3	5.836
27992	9	0.08	76	< 10	< 1	7	6.793
27993	18	0.04	145	< 10	1	5	6.071

Activation Laboratories Ltd. Report: A08-4518

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 13P Moss			3040				2310										6.06							
OREAS 13P Cert			2500				2260										7.58							
29105 Orig	< 0.2	0.6	66	581	6	10	4	182	2.40	< 10	134	1	< 10	0.13	9	97	4.25	0.82	1.53	0.06	0.016	< 10	4	< 10
29105 Dup	< 0.2	0.6	66	596	7	10	6	188	2.46	< 10	140	1	< 10	0.13	9	96	4.45	0.85	1.65	0.06	0.015	< 10	4	< 10
30617 Orig	7.7	5.2	5090	143	< 2	1830	97	183	2.50	< 10	22	< 1	< 10	1.70	130	167	7.29	0.18	0.89	0.36	0.006	< 10	3	< 10
30617 Dup	7.8	5.8	5260	148	< 2	1910	98	192	2.51	< 10	19	< 1	< 10	1.77	135	176	7.60	0.19	0.93	0.38	0.008	< 10	3	< 10
29042 Orig	4.3	2.0	4070	171	< 2	1200	23	53	5.52	< 10	24	< 1	< 10	3.08	127	130	7.26	0.11	1.38	0.41	0.008	< 10	3	< 10
29042 Dup	4.1	1.8	3920	167	< 2	1170	20	53	5.36	< 10	23	< 1	< 10	3.01	120	124	6.91	0.10	1.33	0.40	0.008	< 10	2	< 10
24918 Orig	< 0.2	0.5	244	249	< 2	114	4	28	2.23	< 10	41	< 1	< 10	2.03	22	106	2.26	0.05	1.44	0.09	0.045	< 10	4	< 10
24918 Dup	0.2	< 0.5	280	285	< 2	128	3	29	2.33	< 10	44	< 1	< 10	2.09	24	109	2.42	0.05	1.52	0.10	0.047	< 10	4	< 10
27950 Orig	0.5	< 0.5	1470	312	< 2	1370	6	31	5.05	< 10	16	< 1	< 10	2.37	47	116	3.79	0.03	3.14	0.32	0.003	< 10	2	< 10
27950 Dup	0.5	0.5	1440	320	< 2	1400	9	32	5.05	< 10	17	< 1	< 10	2.43	48	120	3.85	0.03	3.21	0.32	0.003	< 10	2	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

OREAS 13P Moss

OREAS 13P Cert

29105 Orig	7	0.11	9	< 10	7	10	0.047
29105 Dup	7	0.11	10	< 10	7	9	0.050
30617 Orig	33	0.05	34	< 10	1	2	3.952
30617 Dup	35	0.05	35	< 10	1	2	4.036
29042 Orig	31	0.03	39	< 10	1	2	3.192
29042 Dup	30	0.03	37	< 10	1	2	3.114
24918 Orig	27	0.29	55	< 10	9	2	0.152
24918 Dup	28	0.31	58	< 10	10	2	0.162
27950 Orig	58	0.02	37	< 10	< 1	1	0.439
27950 Dup	59	0.02	36	< 10	< 1	1	0.449
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 28-Jul-08
Invoice No.: A08-4515
Invoice Date: 14-Aug-08
Your Reference: DOSSIER 22919

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

90 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4515**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4515

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26696	2.5	2.1	1110	63	<2	255	76	44	6.15	<10	147	<1	<10	3.75	24	232	2.37	0.44	1.38	0.83	0.018	<10	4	<10
26697	2.9	1.7	1940	42	<2	507	88	37	7.66	<10	52	<1	<10	6.28	25	360	2.47	0.29	0.87	0.81	0.019	<10	2	<10
26698	10.6	5.8	8120	53	<2	3020	89	134	6.13	<10	10	<1	<10	2.02	133	341	10.8	0.42	1.52	0.68	0.018	<10	5	<10
26699	2.7	1.4	1990	37	<2	1230	69	35	7.63	<10	29	<1	<10	5.11	47	278	4.57	0.21	0.71	0.78	0.013	<10	2	<10
26900	0.9	2.3	9070	272		> 10000	4	41	0.47	<10	4	<1	<10	0.38	491	33	32.4	0.11	0.16	0.07	0.048	<10	3	<10
26501	2.9	2.1	2020	48	<2	1410	83	55	6.05	<10	21	<1	<10	3.51	86	282	5.51	0.35	1.14	0.68	0.019	<10	3	<10
26902	2.8	2.0	1640	68	<2	1430	55	88	4.28	<10	19	<1	<10	1.72	59	404	6.71	0.99	2.78	0.49	0.025	<10	5	<10
26903	8.2	5.1	4790	89	<2	1170	74	108	5.07	<10	18	1	<10	2.04	57	166	6.73	0.72	2.65	0.57	0.018	<10	6	<10
26904	30.1	5.9	> 10000	59	<2	3520	61	104	4.45	<10	6	<1	<10	0.91	389	209	15.6	0.57	1.59	0.55	0.014	<10	3	<10
26906	4.2	3.2	1810	53	<2	662	86	56	5.94	<10	29	<1	<10	3.87	39	208	3.97	0.52	1.43	0.68	0.019	<10	4	<10
29113	0.2	1.1	92	718	<2	89	17	358	4.97	<10	657	<1	<10	1.42	23	72	8.19	1.67	2.99	0.29	0.058	<10	14	<10
29114	<0.2	1.5	241	856	<2	52	10	355	5.13	<10	515	<1	<10	0.60	23	115	7.21	1.52	3.45	0.17	0.075	<10	13	<10
29115	<0.2	0.9	41	74	<2	54	11	281	4.57	<10	771	<1	<10	0.57	23	80	6.65	1.41	3.25	0.22	0.080	<10	12	<10
29116	<0.2	0.8	107	890	3	42	5	238	4.08	<10	704	1	<10	0.57	22	105	5.19	0.98	2.71	0.25	0.081	<10	9	<10
29117	<0.2	0.6	86	761	<2	48	5	331	3.31	<10	826	<1	<10	0.69	23	72	5.62	1.21	2.94	0.21	0.081	<10	11	<10
29118	<0.2	1.3	173	790	<2	51	8	355	2.93	<10	738	<1	<10	0.52	21	91	6.44	0.96	2.48	0.18	0.074	<10	9	13
29119	<0.2	1.2	68	900	<2	51	2	413	3.66	<10	633	1	<10	0.35	20	103	6.74	1.08	2.85	0.15	0.068	<10	11	11
29120	0.5	0.6	1740	362	<2	1670	7	32	5.63	<10	20	<1	<10	2.76	53	136	4.64	0.03	3.78	0.39	0.094	<10	3	<10
29121	<0.2	0.8	79	858	<2	43	2	262	2.79	<10	351	1	<10	0.29	18	95	4.52	0.29	2.14	0.13	0.068	<10	8	<10
29122	<0.2	0.7	260	457	<2	33	<2	179	1.63	<10	203	<1	<10	0.25	15	104	3.14	0.53	1.35	0.11	0.068	<10	6	<10
29083	10.9	9.0	> 10000	111	<2	9930	125	289	0.31	<10	6	<1	<10	0.08	412	12	47.0	0.04	0.15	0.02	0.009	12	1	12
29084	21.4	24.9	> 10000	142	<2	9690	76	770	0.48	12	9	<1	<10	0.11	351	25	47.8	0.11	0.27	0.03	0.012	15	1	16
29085	6.3	7.7	7000	373	<2	2380	78	581	2.23	<10	11	1	<10	0.50	158	48	16.8	0.78	1.60	0.08	0.037	<10	4	15
29086	<0.2	0.7	125	819	<2	87	51	246	4.07	<10	307	1	<10	1.12	14	94	6.33	1.35	2.45	0.25	0.071	<10	11	<10
29087	1.9	2.2	2300	331	<2	5520	15	203	1.66	<10	8	<1	<10	0.31	157	81	31.3	0.71	1.09	0.05	0.009	<10	5	21
29088	0.3	1.1	242	737	<2	123	16	252	4.17	<10	86	3	<10	2.90	26	128	6.66	0.77	1.93	0.24	0.082	<10	12	27
29089	<0.2	0.8	75	457	2	41	11	127	2.05	<10	38	2	<10	1.50	11	138	2.63	0.30	0.78	0.15	0.022	<10	5	12
29090	<0.2	<0.5	9	469	<2	11	6	16	0.33	<10	7	<1	<10	0.08	1	186	0.33	0.13	0.02	0.05	0.007	<10	<1	10
29091	0.3	0.5	192	574	2	117	4	28	0.33	<10	18	<1	<10	0.07	7	124	0.99	0.09	0.12	0.06	0.006	<10	1	<10
29092	<0.2	<0.5	109	98	<2	26	<2	6	4.91	<10	13	<1	<10	3.97	6	131	0.81	0.02	0.65	0.61	0.015	<10	3	<10
28602	<0.2	0.9	212	382	<2	20	3	40	2.90	<10	93	<1	<10	1.66	26	64	6.96	0.74	2.08	0.18	0.142	<10	12	<10
28903	<0.2	0.5	142	390	<2	14	<2	47	2.81	<10	108	<1	<10	3.02	24	87	4.24	0.18	1.27	0.18	0.128	<10	11	<10
28904	<0.2	0.8	164	359	<2	13	3	43	2.68	<10	62	<1	<10	2.62	25	56	4.53	0.29	1.33	0.16	0.124	<10	10	<10
28905	<0.2	1.1	206	495	<2	16	<2	36	4.01	<10	64	<1	<10	3.06	28	56	7.09	0.73	3.34	0.43	0.116	<10	13	<10
28906	<0.2	1.0	81	576	<2	14	<2	33	3.60	<10	207	<1	<10	3.07	24	47	7.63	0.88	1.17	0.44	0.124	<10	14	<10
28907	<0.2	1.5	79	616	<2	13	<2	37	4.37	<10	251	<1	<10	3.32	26	51	9.07	0.85	1.35	0.48	0.136	<10	16	<10
28908	<0.2	1.2	162	586	<2	16	<2	40	4.30	<10	65	1	<10	3.44	31	63	9.26	0.85	1.35	0.37	0.127	<10	14	<10
28909	<0.2	0.9	178	517	<2	13	<2	35	3.25	<10	48	<1	<10	3.04	24	68	8.55	0.37	1.28	0.33	0.126	<10	14	<10
28910	<0.2	<0.5	4	160	<2	2	8	7	0.06	<10	872	<1	<10	8.27	1	22	0.16	0.01	4.48	0.11	0.005	<10	<1	<10
28911	<0.2	0.5	156	138	<2	238	4	45	6.24	<10	104	<1	<10	3.77	33	187	4.11	0.46	2.80	0.25	0.099	<10	3	<10
24855	<0.2	<0.5	96	242	<2	49	32	30	4.41	<10	17	<1	<10	3.82	14	110	1.95	0.02	1.13	0.43	0.017	<10	8	<10
24857	<0.2	0.6	92	338	<2	51	17	41	4.18	<10	24	<1	<10	3.88	16	146	2.64	0.04	1.61	0.39	0.017	<10	10	<10
24858	0.7	0.6	217	318	<2	114	20	50	4.29	<10	19	<1	<10	3.39	21	165	2.71	0.04	1.62	0.39	0.016	<10	8	<10
24859	<0.2	<0.5	3	196	<2	4	8	10	0.06	<10	200	<1	<10	10.3	<1	43	0.14	0.01	6.25	0.04	0.007	<10	<1	<10
24860	7.1	6.9	3480	380	<2	1010	84	220	3.64	<10	37	<1	<10	2.49	79	307	6.78	0.12	2.31	0.29	0.011	<10	6	<10
24951	20.5	13.1	> 10000	333	<2	1610	46	303	3.48	<10	11	<1	<10	1.20	218	953	10.6	0.40	2.84	0.23	0.009	<10	4	<10
24962	7.5	6.9	4110	341	<2	1900	69	209	3.65	<10	20	<1	<10	2.09	163	344	7.80	0.31	2.60	0.24	0.015	<10	6	<10
24963	2.7	3.3	2590	213	<2	528	105	210	4.44	<10	39	<1	<10	3.15	51	178	5.32	0.13	1.79	0.38	0.014	<10	8	<10
24964	9.2	8.2	4680	319	<2	694	398	349	3.64	<10	19	<1	<10	2.38	55	59	5.95	0.06	1.40	0.33	0.014	<10	7	<10
24965	13.0	16.5	> 10000	332	<2	1800	214	897	2.01	<10	6	<1	<10	1.02	74	56	12.2	0.05	1.20	0.10	0.018	<10	5	14
24833	0.3	<0.5	338	193	<2	58	6	21	3.81	<10	11	<1	<10	3.34	9	140	1.35	0.02	1.02	0.62	0.015	<10	5	<10
24634	0.2	0.6	222	353	<2	132	3	41	4.66	<10	18	<1	<10	3.40	23	321	4.67	0.09	2.63	0.33	0.013	<10	7	<10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
24535	< 0.2	1.1	302	931	< 2	214	< 2	85	5.61	< 10	10	< 1	< 10	0.90	34	471	8.40	0.07	6.52	0.04	0.010	< 10	14	< 10	
24536	< 0.2	0.7	124	533	< 2	66	< 2	50	3.61	< 10	19	< 1	< 10	0.62	19	246	5.04	0.08	3.95	0.04	0.014	< 10	6	< 10	
24537	0.4	0.8	437	487	3	25	< 2	48	3.45	< 10	38	< 1	< 10	0.49	17	165	5.05	0.12	3.35	0.02	0.029	< 10	6	< 10	
24538	1.2	3.6	1700	542	< 2	96	< 2	199	4.15	< 10	10	1	< 10	1.46	27	81	5.53	0.04	4.11	0.02	0.021	< 10	8	< 10	
24539	1.8	3.5	989	857	< 2	258	22	139	5.32	< 10	11	< 1	< 10	1.73	46	608	8.61	0.05	5.60	0.02	0.009	< 10	14	< 10	
24540	0.8	0.6	1510	353	< 2	1490	5	32	5.58	< 10	19	< 1	< 10	2.68	52	131	4.46	0.03	3.64	0.37	0.004	< 10	3	< 10	
24541	3.4	3.6	1970	457	< 2	153	37	219	3.41	< 10	15	< 1	< 10	3.07	24	339	3.72	0.05	2.71	0.07	0.011	< 10	7	< 10	
24542	0.7	0.8	480	474	< 2	249	8	47	4.37	< 10	22	< 1	< 10	3.45	28	196	4.01	0.09	3.19	0.06	0.007	< 10	4	< 10	
30958	< 0.2	< 0.5	33	206	< 2	30	< 2	21	4.71	< 10	16	< 1	< 10	4.26	8	205	1.46	0.04	1.05	0.26	0.011	< 10	4	< 10	
30669	< 0.2	< 0.5	56	60	< 2	19	< 2	6	10.4	< 10	19	< 1	< 10	8.16	3	91	0.58	0.03	0.45	1.24	0.003	< 10	1	< 10	
30970	0.8	0.8	1570	390	< 2	1630	6	33	5.88	< 10	21	< 1	< 10	3.01	57	148	4.77	0.03	3.98	0.39	0.004	< 10	3	< 10	
30971	< 0.2	< 0.5	80	56	< 2	20	< 2	9	9.66	< 10	16	< 1	< 10	7.28	3	96	0.64	0.02	0.42	1.12	0.002	< 10	1	< 10	
30972	< 0.2	< 0.5	25	102	< 2	23	< 2	7	9.04	< 10	17	< 1	< 10	6.45	4	103	0.84	0.02	0.65	1.27	0.004	< 10	2	< 10	
30973	< 0.2	< 0.5	86	116	< 2	20	< 2	11	7.50	< 10	13	< 1	< 10	6.23	6	113	1.02	0.02	0.71	1.02	0.004	< 10	3	< 10	
30974	< 0.2	< 0.5	33	75	< 2	34	< 2	4	7.40	< 10	12	< 1	< 10	6.16	7	125	0.81	0.01	0.62	0.69	0.008	< 10	3	< 10	
30975	< 0.2	< 0.5	42	109	< 2	46	< 2	8	7.17	< 10	18	< 1	< 10	6.99	10	194	1.26	0.07	1.00	0.61	0.007	< 10	4	< 10	
24299	0.2	1.0	302	794	3	26	26	481	2.83	< 10	53	< 1	< 10	1.01	23	70	5.36	0.33	2.14	0.06	0.024	< 10	4	< 10	
24300	0.9	2.4	9450	273	< 2	> 10000	6	42	0.47	< 10	5	< 1	< 10	0.38	494	33	33.5	0.11	0.16	0.07	0.049	< 10	3	< 10	
24245	9.0	13.3	9450	257	< 2	5020	118	430	2.21	< 10	5	< 1	< 10	0.85	208	153	22.8	0.05	1.08	0.12	0.009	< 10	3	12	
24246	8.0	10.0	7200	351	< 2	4160	153	384	2.66	< 10	5	< 1	< 10	0.65	181	199	20.8	0.06	1.68	0.06	0.008	< 10	3	< 10	
24247	8.0	11.4	6480	446	< 2	1440	191	571	3.65	< 10	8	< 1	< 10	1.19	125	378	11.3	0.12	2.48	0.15	0.009	< 10	3	< 10	
24248	15.8	39.1	> 10000	530	< 2	2190	158	1510	2.54	< 10	5	< 1	< 10	0.58	164	259	18.5	0.08	2.39	0.06	0.018	< 10	3	11	
24249	9.0	6.7	7610	582	< 2	1580	266	386	2.66	< 10	6	< 1	< 10	0.64	264	121	13.3	0.07	2.07	0.05	0.016	< 10	4	< 10	
24250	0.9	2.3	9250	268	< 2	> 10000	3	39	0.47	< 10	6	< 1	< 10	0.37	486	33	33.4	0.11	0.16	0.07	0.049	< 10	3	< 10	
24251	15.9	26.9	> 10000	732	< 2	1480	490	1120	3.39	< 10	6	< 1	< 10	0.43	335	59	15.6	0.02	3.41	0.01	0.019	< 10	8	< 10	
24252	16.2	26.9	> 10000	562	< 2	4100	109	916	3.02	< 10	5	< 1	< 10	0.24	142	26	19.7	0.01	3.02	0.01	0.019	< 10	5	< 10	
24253	4.0	8.8	4520	890	2	983	240	469	3.01	< 10	15	< 1	< 10	0.58	55	71	9.52	0.03	2.98	0.03	0.021	< 10	8	< 10	
24254	0.8	1.3	1100	523	< 2	109	123	87	2.51	< 10	67	< 1	< 10	0.30	34	89	5.15	0.09	2.06	0.05	0.007	< 10	4	< 10	
28551	< 0.2	0.8	444	493	3	23	22	66	2.75	< 10	91	1	< 10	1.09	9	93	3.50	0.39	1.48	0.11	0.025	< 10	4	< 10	
28552	8.1	13.9	6030	463	< 2	5250	64	1700	1.64	< 10	9	2	< 10	0.48	195	85	27.9	0.33	1.00	0.02	0.020	< 10	2	16	
28553	12.6	9.0	9900	46	4	260	18	1370	0.15	< 10	8	1	< 10	0.18	16	210	2.40	0.03	0.06	0.03	0.006	< 10	< 1	< 10	
28554	27.9	20.2	> 10000	502	< 2	887	72	2450	1.88	19	8	2	< 10	0.33	174	121	11.9	0.20	1.17	0.02	0.047	< 10	4	31	
28555	0.2	2.3	333	730	< 2	59	20	320	2.66	< 10	12	53	3	< 10	0.80	10	71	6.78	0.27	2.35	0.03	0.026	< 10	8	28
28556	0.2	3.9	366	547	< 2	36	25	450	2.11	< 10	13	3	< 10	0.65	7	101	4.96	0.06	1.50	0.04	0.020	< 10	5	17	
28557	8.3	4.9	6230	267	3	81	13	612	1.10	< 10	9	2	< 10	0.14	6	128	3.02	0.11	0.58	0.04	0.013	< 10	2	23	
28558	6.3	1.5	3330	406	< 2	316	22	150	1.65	< 10	10	2	< 10	0.18	15	161	5.02	0.11	0.90	0.03	0.031	< 10	1	26	
28559	< 0.2	0.7	90	61	3	12	6	83	0.38	< 10	7	1	< 10	0.08	1	164	0.52	0.12	0.10	0.03	0.005	< 10	< 1	12	
28560	< 0.2	< 0.5	20	193	< 2	7	7	10	0.03	< 10	155	< 1	< 10	10.3	< 1	31	0.10	0.01	6.50	0.03	0.005	< 10	< 1	< 10	

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26695	51	0.07	48	< 10	2	1	0.565
26697	61	0.04	43	< 10	2	1	0.998
26698	38	0.08	57	< 10	2	4	3.352
26699	59	0.03	34	< 10	2	2	1.957
26900	15	0.10	60	< 10	16	17	7.882
26901	47	0.08	43	< 10	2	3	2.237
26902	28	0.12	69	< 10	2	3	2.383
26903	29	0.09	64	< 10	2	2	2.471
26904	22	0.08	53	< 10	1	4	6.177
26906	46	0.07	66	< 10	2	2	1.303
29113	22	0.28	131	< 10	5	5	0.039
29114	16	0.22	164	< 10	8	6	0.045
29115	19	0.21	165	< 10	9	6	0.036
29116	16	0.18	151	< 10	8	7	0.021
29117	9	0.26	160	< 10	8	6	0.025
29118	9	0.21	149	< 10	7	8	0.112
29119	10	0.19	144	< 10	8	7	0.049
29120	69	0.03	43	< 10	< 1	1	0.478
29121	7	0.18	119	< 10	8	9	0.016
29122	7	0.16	106	< 10	7	13	0.067
29083	2	0.02	158	< 10	1	11	5.019
29084	3	0.02	126	< 10	1	11	3.521
29085	7	0.13	48	< 10	6	11	3.008
29086	17	0.22	86	< 10	8	8	0.147
29087	5	0.10	134	< 10	3	16	4.128
29088	60	0.16	144	< 10	13	7	0.360
29089	32	0.09	67	< 10	7	7	0.145
29090	1	< 0.01	2	< 10	7	5	0.016
29091	1	0.01	3	< 10	8	13	0.388
29092	67	0.04	16	< 10	1	1	0.042
28602	16	0.27	79	< 10	21	4	0.507
28903	57	0.32	56	< 10	23	3	0.460
28904	49	0.30	57	< 10	21	3	0.543
28905	74	0.27	74	< 10	25	4	0.677
28906	64	0.27	82	< 10	29	4	0.313
28907	72	0.28	92	< 10	30	4	0.273
28908	81	0.28	92	< 10	28	4	0.648
28909	39	0.22	75	< 10	28	4	0.680
28910	111	0.01	2	< 10	1	1	0.097
28911	110	0.08	44	< 10	2	1	0.197
24855	72	0.05	90	< 10	3	1	0.105
24857	45	0.08	66	< 10	3	1	0.067
24858	35	0.08	61	< 10	3	1	0.113
24859	92	< 0.01	2	< 10	< 1	< 1	0.078
24860	21	0.08	67	< 10	2	2	1.774
24861	14	0.11	74	< 10	1	3	3.384
24862	22	0.09	67	< 10	2	2	2.847
24863	34	0.09	68	< 10	2	2	1.548
24864	48	0.05	43	< 10	2	3	2.220
24865	20	0.09	63	< 10	2	4	5.048
24833	83	0.05	26	< 10	1	1	0.107
24634	39	0.10	67	< 10	4	2	0.266

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24535	11	0.05	69	< 10	7	3	0.095
24536	8	0.08	37	< 10	10	3	0.066
24537	7	0.15	38	< 10	15	5	0.192
24538	8	0.15	32	< 10	18	4	0.442
24539	5	0.12	107	< 10	7	3	0.532
24540	67	0.03	42	< 10	< 1	1	0.465
24541	12	0.05	49	< 10	3	1	0.290
24542	12	0.04	32	< 10	2	1	0.128
30668	57	0.04	23	< 10	2	1	0.062
30669	154	0.01	6	< 10	< 1	< 1	0.061
30670	71	0.03	48	< 10	< 1	1	0.515
30671	132	0.01	6	< 10	< 1	< 1	0.066
30672	125	0.02	11	< 10	< 1	< 1	0.063
30673	115	0.02	13	< 10	1	< 1	0.051
30674	120	0.03	15	< 10	1	< 1	0.078
30675	116	0.04	24	< 10	1	< 1	0.106
24289	12	0.14	22	< 10	17	9	0.781
24300	14	0.10	62	< 10	16	17	8.724
24245	15	0.03	64	< 10	1	6	6.584
24245	18	0.04	67	< 10	1	5	5.927
24247	27	0.06	59	< 10	2	3	3.781
24248	10	0.06	55	< 10	3	6	7.072
24248	10	0.06	86	< 10	3	4	5.333
24260	13	0.10	81	< 10	15	17	8.031
24251	6	0.08	47	< 10	6	5	6.235
24252	6	0.08	33	< 10	6	6	6.445
24253	10	0.08	41	< 10	10	4	2.496
24254	9	0.07	7	< 10	12	4	0.571
28551	10	0.15	15	< 10	18	13	0.120
28552	5	0.09	57	12	8	11	6.677
28553	1	< 0.01	4	< 10	1	1	1.933
28554	2	0.08	31	< 10	8	12	5.952
28555	4	0.22	36	< 10	33	24	0.097
28556	3	0.15	14	< 10	28	26	0.100
28557	3	0.02	9	< 10	10	9	0.728
28558	3	0.03	32	< 10	9	11	1.340
28559	2	< 0.01	1	< 10	2	3	0.048
28560	110	< 0.01	1	< 10	< 1	< 1	0.086

Activation Laboratories Ltd. Report: A08-4515

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.5	2.9	1190	713	14	33	532	813	0.28	360	190	1	1360	0.78	7	6	23.5	0.02	0.12	0.05	0.034	74	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	158	54.0
GXR-4 Meas	3.1	0.6	6710	129	322	39	42	56	2.70	97	30	1	18	0.92	15	56	3.27	1.28	1.55	0.12	0.118	< 10	6	< 10
GXR-4 Cert	4.00	0.860	6920	155	310	42.0	62.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	770	5.60
GXR-2 Meas	17.4	4.5	91	1020	< 2	16	737	542	3.42	17	1060	1	< 10	0.77	10	25	2.07	0.51	0.50	0.28	0.058	33	4	< 10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	688	1.70
GXR-6 Meas	0.2	0.5	72	970	< 2	23	87	109	6.84	227	896	1	< 10	0.16	13	80	5.99	0.80	0.38	0.17	0.031	< 10	16	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas							2970										6.55							
OREAS 13P Cert							2280										7.58							
29115 Ong	< 0.2	0.8	41	729	< 2	53	10	276	4.28	< 10	761	< 1	< 10	0.56	21	78	6.64	1.40	3.21	0.21	0.079	< 10	11	< 10
29115 Dup	< 0.2	1.0	41	753	2	55	11	285	4.48	< 10	790	1	< 10	0.58	24	81	6.67	1.42	3.25	0.22	0.081	< 10	12	< 10
29089 Ong	< 0.2	0.7	73	449	2	41	11	124	1.66	< 10	36	1	< 10	1.46	11	133	2.60	0.79	0.75	0.16	0.022	< 10	5	12
29089 Dup	< 0.2	0.8	76	465	2	40	11	129	2.11	< 10	35	2	< 10	1.54	11	138	2.65	0.30	0.77	0.16	0.022	< 10	5	12
28511 Ong	< 0.2	0.5	160	196	< 2	234	3	44	6.37	< 10	104	< 1	< 10	3.77	32	156	4.06	0.46	2.78	0.26	0.010	< 10	3	< 10
28511 Dup	< 0.2	0.5	151	200	< 2	238	4	46	5.11	< 10	104	< 1	< 10	3.77	33	157	4.15	0.46	2.61	0.25	0.009	< 10	3	< 10
24635 Ong	< 0.2	0.7	121	537	< 2	66	< 2	50	3.55	< 10	18	< 1	< 10	0.63	18	249	4.95	0.08	3.92	0.04	0.014	< 10	9	< 10
24635 Dup	< 0.2	0.7	126	528	< 2	70	< 2	50	3.48	< 10	19	< 1	< 10	0.61	19	243	5.13	0.08	3.99	0.04	0.015	< 10	9	< 10
24251 Ong	15.8	27.0	> 10000	729	< 2	1480	488	1130	3.35	< 10	6	< 1	< 10	0.41	337	58	15.5	0.02	3.38	0.01	0.019	< 10	8	11
24251 Dup	16.0	26.8	> 10000	734	< 2	1510	491	1110	3.43	< 10	5	< 1	< 10	0.45	333	59	15.6	0.02	3.45	0.01	0.020	< 10	8	< 10
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								
Method Blank Method	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 10	< 1	< 10
Blank																								

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	137		74	127	22	13	0.194
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	59		79	14	11	9	1.882
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	64		46	< 10	10	11	0.037
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	31		164	< 10	5	13	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
29115 Orig	19	0.21	162	< 10	8	6	0.033
29115 Dup	19	0.21	167	< 10	8	6	0.036
29089 Orig	31	0.08	86	< 10	7	7	0.142
29089 Dup	33	0.08	88	< 10	7	7	0.147
28511 Orig	109	0.08	44	< 10	2	1	0.199
28511 Dup	110	0.08	44	< 10	2	1	0.196
24636 Orig	8	0.08	37	< 10	10	3	0.064
24636 Dup	8	0.08	36	< 10	10	3	0.066
24251 Orig	6	0.08	47	< 10	6	5	6.219
24251 Dup	6	0.08	47	12	6	5	6.251
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 28-Jul-08
Invoice No.: A08-4515 Additional
Invoice Date: 03-Dec-08
Your Reference: DOSSIER 22919

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

90 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4515 Additiona**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Analyte Symbol	Cu	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FUS- Na2O2	AR-ICP	AR-ICP
28911		136	236
24956		54	49
24957		80	49
24958		185	105
24959		3	4
24960		2910	902
24961	1.62	> 10000	1620
24962		4110	1830
24963		2110	526
24964		4330	718
24965	1.31	> 10000	2060

Quality Control

Analyte Symbol	Cu	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FUS- Ni2O2	AR-ICP	AR-ICP

GXR-1 Meas		1030	26
GXR-1 Cert		1110	41.0
UNG-1 Meas	0.012		
UNG-1 Cert	0.00990		
GXR-4 Meas		6530	40
GXR-4 Cert		6520	42.0
GXR-5 Meas		85	16
GXR-5 Cert		76.0	21.0
CHR-PT+ Meas	0.049		
CHR-PT+ Cert	0.038		
CZN-3 Meas	0.711		
CZN-3 Cert	0.665		
GXR-6 Meas		74	20
GXR-6 Cert		66.0	27.0
CCL-1C Meas	25.6		
CCL-1C Cert	25.6		
OREAS 13P Meas		2420	2360
OREAS 13P Cert		2500	2260
DTS-2b Meas	< 0.005		
DTS-2b Cert	0.000300		
24561 Orig	1.59		
24561 Dup	1.54		
Method Blank Method Blank		< 1	< 1
Method Blank Method Blank		< 1	< 1
Method Blank Method Blank		< 1	< 1
Method Blank Method Blank	< 0.005		
Method Blank Method Blank	< 0.005		



Date Submitted: 28-Jul-08
Invoice No.: A08-4514
Invoice Date: 29-Aug-08
Your Reference: DOSSIER 22923

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

96 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4514**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

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Activation Laboratories Ltd. Report: A08-4514

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	ppm	ppm	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26976	< 0.2	1.0	265	520	< 2	44	2	235	2.77	< 10	252	< 1	< 10	1.72	22	86	5.54	0.82	1.68	0.28	0.059	< 10	12	< 10
26977	< 0.2	0.6	167	534	< 2	40	< 2	59	2.23	< 10	14	< 1	< 10	2.26	26	83	6.43	0.05	1.78	0.16	0.048	< 10	11	< 10
26978	< 0.2	0.7	228	801	< 2	38	4	62	2.58	< 10	37	< 1	< 10	2.50	26	86	5.49	0.11	1.70	0.27	0.051	< 10	14	< 10
26979	< 0.2	0.6	86	577	< 2	22	< 2	165	2.65	< 10	242	< 1	< 10	1.31	19	85	5.49	0.87	1.68	0.13	0.049	< 10	11	< 10
26980	< 0.2	< 0.5	6	193	< 2	3	3	24	0.09	< 10	58	< 1	< 10	10.9	1	30	0.20	0.03	0.69	0.03	0.013	< 10	< 1	< 10
26981	0.3	3.3	144	748	2	11	3	657	2.67	< 10	266	< 1	< 10	0.64	16	107	5.27	1.32	1.30	0.11	0.060	< 10	10	< 10
26982	< 0.2	< 0.5	106	163	< 2	86	10	17	4.99	< 10	15	< 1	< 10	3.74	11	175	1.49	0.03	1.07	0.59	0.004	< 10	4	< 10
26989	0.4	< 0.5	307	332	< 2	189	6	29	5.06	< 10	21	< 1	< 10	3.23	19	471	3.10	0.07	2.20	0.40	0.004	< 10	3	< 10
26999	0.3	< 0.5	255	220	< 2	134	10	28	7.65	< 10	23	< 1	< 10	5.46	17	364	2.23	0.09	1.43	0.64	0.008	< 10	4	< 10
26900	0.8	2.2	8990	280	< 2	> 10000	6	42	0.45	< 10	21	< 1	< 10	0.38	605	33	32.7	0.11	0.16	0.09	0.050	< 10	4	< 10
26801	< 0.2	0.8	149	315	< 2	131	8	34	8.44	< 10	28	< 1	< 10	4.78	23	297	3.57	0.14	2.20	0.40	0.014	< 10	4	< 10
26602	0.6	0.5	360	219	< 2	127	16	33	6.04	< 10	74	< 1	< 10	4.15	22	306	3.14	0.28	2.06	0.46	0.008	< 10	5	< 10
26603	0.5	< 0.5	199	187	< 2	168	45	23	5.74	< 10	68	< 1	< 10	4.27	20	178	1.80	0.09	1.40	0.51	0.004	< 10	5	< 10
26604	0.4	< 0.5	363	280	< 2	525	4	42	2.46	< 10	10	< 1	< 10	1.33	45	200	3.31	0.04	3.41	0.10	0.007	< 10	2	< 10
26605	0.3	0.5	218	310	< 2	425	9	57	2.98	< 10	19	< 1	< 10	1.69	38	307	3.34	0.11	3.62	0.10	0.005	< 10	3	< 10
26606	0.4	0.8	181	301	4	233	37	48	3.67	< 10	14	< 1	< 10	3.14	23	268	2.49	0.03	1.80	0.31	0.004	< 10	4	< 10
30732	1.7	1.5	1780	339	< 2	1420	48	193	3.54	< 10	11	< 1	< 10	1.95	84	569	9.67	0.03	2.64	0.21	0.009	< 10	4	< 10
30733	1.2	1.6	1640	272	< 2	1410	71	169	4.78	< 10	11	< 1	< 10	2.79	86	326	9.23	0.03	1.76	0.36	0.009	< 10	2	< 10
30734	2.2	1.9	2140	225	< 2	6740	29	122	1.44	< 10	27	< 1	< 10	0.54	239	239	26.8	0.08	1.20	0.10	0.007	< 10	3	< 10
30735	6.9	2.8	9760	462	< 2	1750	29	339	2.71	< 24	39	< 1	< 10	1.41	88	48	14.0	0.14	2.63	0.03	0.018	< 10	6	< 10
30736	5.9	6.0	9730	928	< 2	562	38	604	3.46	< 10	23	< 1	< 10	2.96	78	64	11.8	0.07	3.36	0.06	0.025	< 10	10	< 10
30737	12.4	5.9	> 10000	737	< 2	1020	58	559	3.68	166	29	< 1	< 10	2.91	103	60	14.1	0.10	3.53	0.10	0.040	< 10	11	10
30738	3.2	2.6	3300	553	< 2	155	37	163	3.77	35	38	< 1	< 10	2.78	23	71	7.70	0.18	3.40	0.16	0.026	< 10	11	< 10
30739	4.4	2.4	4280	641	< 2	144	14	167	3.69	19	39	< 1	< 10	3.12	23	64	8.19	0.22	3.64	0.16	0.040	< 10	14	< 10
30740	0.5	0.5	1370	335	< 2	1410	6	29	5.13	< 10	21	< 1	< 10	2.46	47	126	4.19	0.04	3.50	0.38	0.004	< 10	3	< 10
30741	4.2	2.6	3660	463	< 2	132	14	149	3.63	< 10	53	< 1	< 10	2.60	24	68	7.66	0.30	3.34	0.28	0.034	< 10	13	< 10
24215	< 0.2	< 0.5	208	77	< 2	44	2	11	8.09	< 10	19	< 1	< 10	4.88	6	134	0.82	0.03	0.88	0.71	0.005	< 10	3	< 10
24216	< 0.2	< 0.5	66	69	< 2	47	2	8	6.75	< 10	28	< 1	< 10	6.19	7	164	0.89	0.06	0.65	0.76	0.004	< 10	3	< 10
24217	< 0.2	< 0.5	90	63	< 2	30	2	8	7.77	< 10	24	< 1	< 10	6.93	5	126	0.88	0.02	0.61	0.92	0.009	< 10	3	< 10
24218	< 0.2	< 0.5	167	141	< 2	64	< 2	17	2.69	< 10	101	< 1	< 10	1.23	17	259	2.47	0.25	1.75	0.24	0.016	< 10	4	< 10
24219	< 0.2	< 0.5	276	92	2	60	2	16	3.60	< 10	123	< 1	< 10	2.31	13	226	2.22	0.31	1.48	0.44	0.017	< 10	4	< 10
24220	0.5	< 0.5	1300	328	< 2	1390	7	29	4.87	< 10	20	< 1	< 10	2.38	48	122	4.09	0.03	3.43	0.36	0.004	< 10	3	< 10
24221	< 0.2	< 0.5	145	290	< 2	52	3	16	3.76	< 10	22	< 1	< 10	3.27	17	106	2.14	0.02	1.18	0.51	0.019	< 10	6	< 10
24222	< 0.2	< 0.5	37	141	< 2	101	7	30	5.44	< 10	182	< 1	< 10	3.70	18	290	2.38	0.69	1.91	0.51	0.008	< 10	4	< 10
24223	0.2	< 0.5	164	272	< 2	46	7	27	4.42	< 10	40	< 1	< 10	4.05	13	128	2.19	0.07	1.35	0.37	0.015	< 10	8	< 10
24224	< 0.2	< 0.5	57	292	< 2	52	8	23	4.23	< 10	47	< 1	< 10	3.82	15	119	2.47	0.08	1.43	0.41	0.017	< 10	10	< 10
24673	0.2	0.8	212	593	< 2	60	19	82	2.85	< 10	17	< 1	< 10	2.04	31	77	6.12	0.08	1.63	0.23	0.054	< 10	14	< 10
24674	3.8	1.4	3750	725	< 2	307	51	126	3.46	< 10	14	1	< 10	2.27	46	149	9.66	0.05	3.44	0.10	0.041	< 10	15	< 10
24675	9.6	4.9	8060	327	< 2	2660	98	434	2.67	< 10	23	< 1	< 10	1.04	90	278	14.6	0.07	2.07	0.08	0.015	< 10	3	< 10
24676	17.8	12.8	> 10000	217	< 2	6230	96	680	1.74	< 10	16	< 1	< 10	0.85	250	178	25.7	0.04	0.89	0.08	0.026	< 10	2	< 10
24677	17.5	22.0	> 10000	239	< 2	4040	88	1080	1.43	< 10	27	< 1	< 10	1.09	268	119	24.0	0.09	0.85	0.06	0.028	< 10	2	< 10
24678	16.7	14.6	9760	277	< 2	3140	144	828	2.24	< 10	44	< 1	< 10	1.06	216	129	18.2	0.17	1.38	0.13	0.041	< 10	4	< 10
24679	17.8	36.1	> 10000	172	< 2	6460	92	1670	1.36	< 10	35	< 1	< 10	0.49	252	74	32.2	0.14	0.91	0.07	0.027	< 10	2	< 10
24680	0.2	0.5	112	211	< 2	34	4	46	0.04	< 10	63	< 1	< 10	11.3	2	29	0.27	0.01	7.34	0.03	0.003	< 10	< 1	< 10
24681	14.7	69.8	> 10000	226	< 2	6020	122	3150	1.94	< 10	28	< 1	< 10	0.83	231	122	27.7	0.21	1.22	0.09	0.039	< 10	4	13
24682	0.7	1.5	613	316	< 2	315	14	79	2.67	< 10	41	< 1	< 10	1.11	38	125	5.03	0.10	3.19	0.08	0.033	< 10	5	< 10
26793	0.6	0.9	433	274	< 2	396	9	69	2.83	< 10	23	< 1	< 10	1.13	48	160	4.46	0.06	3.60	0.09	0.020	< 10	4	< 10
26794	0.2	< 0.5	116	219	< 2	381	2	38	2.41	< 10	7	< 1	< 10	0.82	42	106	3.38	0.01	3.48	0.07	0.010	< 10	2	< 10
26795	0.3	< 0.5	113	184	< 2	352	2	34	2.24	< 10	7	< 1	< 10	0.69	38	92	3.07	0.01	3.20	0.06	0.009	< 10	2	< 10
26796	0.3	0.5	149	208	< 2	369	< 2	38	2.83	< 10	7	< 1	< 10	0.67	41	161	3.68	0.01	3.73	0.07	0.009	< 10	2	< 10
26797	0.3	< 0.5	120	90	< 2	103	18	13	4.64	< 10	8	< 1	< 10	3.53	12	56	1.21	0.02	1.10	0.21	0.010	< 10	2	< 10
26798	0.3	< 0.5	136	138	< 2	97	20	14	4.40	< 10	13	< 1	< 10	3.38	13	86	1.46	0.04						

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm		
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP		
26799	0.5	< 0.5	225	195	< 2	266	5	29	3.05	< 10	11	< 1	< 10	1.54	33	116	2.95	0.03	3.13	0.12	0.009	< 10	3	< 10	
26800	0.8	2.1	8920	279	< 2	> 10000	6	41	0.60	< 10	15	< 1	< 10	0.38	499	32	32.9	0.11	0.16	0.06	0.050	< 10	4	< 10	
26801	0.4	0.5	223	169	< 2	159	17	16	4.78	< 10	10	< 1	< 10	3.57	18	125	1.78	0.02	1.60	0.30	0.004	< 10	3	< 10	
26802	0.4	< 0.5	106	70	< 2	49	28	8	5.65	< 10	11	< 1	< 10	4.71	7	63	0.81	0.01	0.64	0.42	0.006	< 10	2	< 10	
27964	0.6	1.2	366	106	< 2	406	25	27	6.02	< 10	30	< 1	< 10	4.03	38	93	1.88	0.08	0.91	0.77	0.003	< 10	2	< 10	
27965	0.4	0.5	195	71	< 2	181	30	13	5.32	< 10	15	< 1	< 10	3.55	18	84	1.04	0.01	0.54	0.87	0.002	< 10	2	< 10	
27966	4.1	1.2	567	70	< 2	229	78	18	4.48	< 10	19	< 1	< 10	3.23	23	65	1.26	0.03	0.57	0.76	0.003	< 10	1	< 10	
27967	1.7	1.0	507	79	< 2	320	96	19	5.42	< 10	48	< 1	< 10	2.93	28	111	1.46	0.11	0.80	0.82	0.003	< 10	2	< 10	
27968	12.4	5.7	1360	85	< 2	372	157	36	4.56	< 10	42	< 1	< 10	3.16	42	110	2.06	0.11	0.82	0.71	0.005	< 10	2	< 10	
27969	63.4	32.7	> 10000	199	< 2	361	381	112	4.67	< 10	12	< 1	< 10	36	35	60	3.30	0.02	1.22	0.47	0.006	< 10	6	< 10	
27970	0.5	0.7	1540	330	< 2	1450	5	28	5.01	< 10	20	< 1	< 10	2.48	48	122	4.34	0.03	3.49	0.36	0.003	< 10	3	< 10	
27971	54.1	30.3	6670	222	< 2	264	933	79	4.16	< 10	11	< 1	< 10	3.54	29	66	2.63	0.01	1.22	0.33	0.006	< 10	5	< 10	
27972	31.1	16.3	3720	210	< 2	268	482	56	4.47	< 10	10	< 1	< 10	4.1	3.88	26	74	2.16	0.01	1.20	0.35	0.007	< 10	6	< 10
27973	34.5	20.6	5320	183	< 2	181	253	69	3.62	< 10	11	< 1	< 10	2.8	3.02	28	75	2.13	0.01	1.06	0.37	0.003	< 10	5	< 10
28441	3.0	1.3	816	145	< 2	151	24	24	6.25	< 10	24	< 1	< 10	4.62	19	116	2.07	0.25	1.60	0.53	0.011	< 10	3	< 10	
28442	1.7	0.9	578	393	< 2	202	25	93	5.95	< 10	35	5	< 10	3.13	32	313	4.76	1.23	3.61	0.63	0.023	< 10	8	13	
28443	0.6	< 0.5	196	519	< 2	25	29	19	0.75	< 10	10	4	< 10	0.45	4	127	0.74	0.06	0.34	0.08	0.005	< 10	1	< 10	
28444	0.9	1.0	269	954	3	11	60	77	0.49	< 10	10	8	< 10	0.14	3	166	1.11	0.08	0.26	0.07	0.006	< 10	< 1	< 10	
28445	0.5	< 0.5	273	325	< 2	8	62	18	0.29	< 10	7	4	< 10	0.13	2	145	0.77	0.08	0.09	0.06	0.007	< 10	< 1	< 10	
28446	0.2	< 0.5	11	64	3	8	5	17	0.31	< 10	6	< 1	< 10	0.07	1	168	0.25	0.13	0.01	0.06	0.009	< 10	< 1	19	
28447	< 0.2	< 0.5	8	149	< 2	7	3	35	0.40	< 10	6	< 1	< 10	0.09	1	151	0.58	0.18	0.08	0.07	0.008	< 10	1	18	
28448	< 0.2	< 0.5	15	297	4	7	3	95	0.78	< 10	7	< 1	< 10	0.10	2	168	1.31	0.41	0.21	0.07	0.008	< 10	3	50	
28449	< 0.2	< 0.5	4	172	< 2	6	2	54	0.49	< 10	7	< 1	< 10	0.07	1	132	0.76	0.24	0.12	0.07	0.006	< 10	1	25	
28960	0.9	2.2	8780	283	2	> 10000	6	42	0.48	< 10	24	< 1	< 10	0.36	496	32	32.3	0.11	0.16	0.09	0.090	< 10	3	< 10	
51001	4.4	2.5	2020	296	< 2	1270	104	59	3.88	< 10	16	< 1	< 10	2.59	52	270	4.67	0.07	2.69	0.19	0.008	< 10	3	< 10	
51002	3.6	2.4	1760	219	< 2	1740	78	65	3.66	< 10	25	< 1	< 10	2.12	80	246	5.64	0.13	3.13	0.16	0.010	< 10	2	< 10	
51003	19.1	4.3	8530	203	< 2	5380	98	121	2.81	< 10	16	< 1	< 10	0.74	270	368	12.0	0.08	3.88	0.06	0.009	< 10	1	< 10	
51004	4.3	2.0	1860	204	< 2	4350	35	83	2.98	< 10	21	< 1	< 10	0.52	154	161	9.14	0.12	4.31	0.06	0.008	< 10	1	< 10	
30795	1.9	1.4	1090	288	< 2	674	30	38	4.71	< 10	12	< 1	< 10	3.52	39	160	3.20	0.02	1.45	0.58	0.010	< 10	5	< 10	
30796	1.3	1.0	1350	181	< 2	991	33	38	5.45	< 10	53	< 1	< 10	3.67	51	205	4.82	0.21	1.61	0.62	0.007	< 10	5	< 10	
30797	1.9	1.0	2360	227	< 2	1470	30	34	4.77	< 10	12	< 1	< 10	3.72	76	226	6.48	0.02	1.20	0.63	0.008	< 10	6	< 10	
30798	9.1	4.1	4130	421	< 2	934	44	150	4.43	< 10	10	< 1	< 10	3.34	115	225	5.91	0.02	1.85	0.33	0.011	< 10	4	< 10	
30799	18.7	6.5	8250	273	< 2	1650	97	111	2.68	< 10	13	< 1	< 10	1.83	157	271	7.48	0.05	2.23	0.14	0.014	< 10	4	< 10	
30800	0.8	2.3	8670	280	< 2	> 10000	5	41	0.48	< 10	19	< 1	< 10	0.36	466	32	32.0	0.11	0.16	0.09	0.050	< 10	3	< 10	
51015	5.1	9.1	2750	125	< 2	796	158	144	5.80	< 10	24	< 1	< 10	3.86	57	73	4.23	0.09	1.25	0.61	0.010	< 10	3	< 10	
51016	1.7	4.8	1420	122	< 2	705	114	129	3.00	< 10	40	< 1	< 10	1.76	52	279	4.60	0.10	0.96	0.40	0.017	< 10	2	< 10	
51017	2.5	1.9	2390	184	< 2	2630	77	177	1.51	< 10	27	< 1	< 10	0.63	184	147	12.8	0.09	1.45	0.12	0.018	< 10	4	< 10	
51018	3.6	2.7	3500	245	< 2	3440	85	289	2.60	< 10	38	< 1	< 10	0.71	341	63	15.4	0.16	2.15	0.14	0.016	< 10	4	< 10	
51019	3.2	2.8	4170	234	< 2	3680	49	253	1.67	< 10	13	< 1	< 10	0.67	335	34	20.5	0.30	1.68	0.04	0.008	< 10	3	11	
51020	0.5	0.5	1380	343	< 2	1450	7	31	5.24	< 10	22	< 1	< 10	2.54	50	131	4.21	0.04	3.55	0.39	0.003	< 10	3	< 10	
51021	5.4	4.8	7280	341	< 2	1950	73	490	2.48	< 10	43	< 1	< 10	0.36	212	60	13.5	0.16	2.05	0.06	0.019	< 10	4	< 10	
51022	8.4	3.9	2190	459	< 2	1370	414	332	3.80	< 10	67	1	103	0.57	109	66	11.2	0.29	3.34	0.15	0.021	< 10	7	< 10	
51023	11.1	7.1	4130	225	< 2	2040	551	196	2.06	< 10	42	< 1	< 10	0.79	226	116	12.2	0.21	1.30	0.18	0.032	< 10	3	< 10	
51024	5.6	4.8	1270	247	< 2	852	416	118	2.15	< 10	21	< 1	< 10	1.61	108	63	6.91	0.06	0.76	0.06	0.045	< 10	2	< 10	

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26975	28	0.21	134	< 10	10	6	0.153
26977	18	0.16	136	< 10	8	3	0.147
26978	28	0.19	153	< 10	10	3	0.209
26979	17	0.25	107	< 10	9	11	0.042
26980	62	0.01	4	< 10	1	1	0.089
26981	9	0.28	62	< 10	10	20	0.067
26997	63	0.04	24	< 10	1	1	0.096
26999	60	0.05	44	< 10	1	1	0.140
26999	120	0.07	43	< 10	1	1	0.135
26900	17	0.11	96	< 10	15	16	9.911
26901	73	0.09	43	< 10	4	1	0.129
26902	60	0.11	42	< 10	1	1	0.291
26903	64	0.05	24	< 10	2	2	0.157
26904	3	0.08	23	< 10	1	1	0.315
26905	9	0.05	27	< 10	1	1	0.182
26906	41	0.03	34	< 10	1	1	0.198
30732	37	0.04	33	< 10	2	4	3.329
30733	50	0.03	39	< 10	1	3	2.934
30734	9	0.04	67	< 10	2	6	6.245
30735	8	0.02	32	< 10	2	4	4.990
30736	16	0.05	96	< 10	3	4	2.951
30737	20	0.03	106	< 10	4	4	3.937
30738	24	0.05	137	< 10	4	2	0.546
30739	27	0.05	182	< 10	4	2	0.919
30740	70	0.03	41	< 10	< 1	2	0.445
30741	29	0.09	170	< 10	3	2	0.960
24215	98	0.02	18	< 10	1	< 1	0.076
24216	108	0.03	20	< 10	1	< 1	0.055
24217	117	0.04	18	< 10	1	1	0.057
24218	23	0.10	39	< 10	5	4	0.214
24219	49	0.09	39	< 10	4	3	0.786
24220	68	0.03	40	< 10	< 1	2	0.428
24221	56	0.07	62	< 10	3	1	0.186
24222	40	0.11	44	< 10	1	1	0.033
24223	44	0.08	51	< 10	4	3	0.068
24224	52	0.08	62	< 10	3	1	0.096
24673	21	0.20	163	< 10	10	3	0.827
24674	17	0.24	193	< 10	11	4	1.655
24675	14	0.03	47	< 10	2	4	6.369
24676	18	0.03	81	< 10	2	6	8.823
24677	16	0.07	75	< 10	3	5	9.454
24678	26	0.08	89	< 10	4	4	5.148
24679	14	0.06	77	< 10	3	7	6.579
24680	96	< 0.01	1	< 10	< 1	< 1	0.162
24681	17	0.08	96	< 10	3	6	8.497
24682	10	0.09	49	< 10	4	2	0.409
26763	7	0.06	39	< 10	2	1	0.388
26764	1	0.04	24	< 10	1	1	0.227
26765	1	0.03	21	< 10	1	1	0.209
26766	2	0.03	24	< 10	1	1	0.226
26767	128	0.02	14	< 10	1	< 1	0.068
26768	117	0.04	20	< 10	1	< 1	0.052

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26766	30	0.03	21	< 10	1	1	0.107
26800	17	0.11	66	< 10	16	17	11.74
26801	115	0.03	20	< 10	1	1	0.085
26802	161	0.02	13	< 10	1	< 1	0.053
27964	94	0.03	27	< 10	1	1	0.574
27965	91	0.01	11	< 10	< 1	< 1	0.269
27966	82	0.01	14	< 10	< 1	< 1	0.427
27967	92	0.02	26	< 10	< 1	< 1	0.447
27968	86	0.03	41	< 10	< 1	1	0.833
27969	88	0.02	26	< 10	1	1	1.991
27970	65	0.03	39	< 10	< 1	1	0.425
27971	89	0.02	27	< 10	1	1	0.949
27972	87	0.02	27	< 10	1	1	0.711
27973	72	0.02	24	< 10	1	1	0.864
28941	92	0.07	27	< 10	1	1	0.196
28942	72	0.13	82	< 10	1	2	0.283
28943	9	0.01	5	< 10	6	10	0.101
28944	3	< 0.01	2	< 10	5	6	0.289
28945	2	< 0.01	1	< 10	5	6	0.271
28946	2	< 0.01	< 1	< 10	3	6	0.012
28947	2	0.01	< 1	< 10	3	5	0.009
28948	3	0.03	1	< 10	4	14	0.014
28949	2	0.02	< 1	< 10	3	6	0.042
28960	16	0.11	66	< 10	16	16	8.748
51001	41	0.05	29	< 10	1	2	1.390
51002	28	0.06	26	< 10	1	2	1.904
51003	5	0.07	31	< 10	1	3	4.752
51004	4	0.06	26	< 10	< 1	2	3.783
30766	69	0.04	31	< 10	1	1	0.867
30768	82	0.05	49	< 10	2	2	1.627
30767	85	0.04	46	< 10	1	2	2.551
30769	52	0.08	47	< 10	1	2	1.776
30789	21	0.06	34	< 10	1	2	3.135
30800	17	0.11	66	< 10	16	16	9.864
51015	89	0.06	62	< 10	2	2	1.842
51016	41	0.06	69	< 10	3	2	1.752
51017	7	0.07	114	< 10	5	3	4.789
51018	9	0.10	119	< 10	3	4	6.933
51019	6	0.10	111	< 10	2	6	7.963
51020	69	0.03	42	< 10	< 1	1	0.481
51021	12	0.07	109	< 10	4	4	4.051
51022	26	0.07	89	< 10	5	3	3.490
51023	13	0.10	84	< 10	6	4	5.156
51024	20	0.07	45	< 10	6	3	2.713

Activation Laboratories Ltd. Report: A08-4514

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	26.1	3.8	1220	906	15	36	639	648	0.35	406	299	1	1690	0.85	9	7	25.8	0.03	0.15	0.07	0.046	81	1	28
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.5	0.6	694.0	141	351	42	44	70	2.83	99	37	1	31	0.97	15	61	3.73	1.50	1.78	0.13	0.136	< 10	7	< 10
GXR-4 Cert	4.00	0.660	692.0	155	310	42.0	62.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	18.7	4.8	86	1040	< 2	19	773	574	3.24	12	1030	1	< 10	0.77	10	28	2.31	0.58	0.55	0.23	0.064	30	5	< 10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.5	74	1050	< 2	25	99	124	7.00	260	1060	1	< 10	0.17	15	91	7.01	1.04	0.45	0.15	0.037	< 10	23	< 10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2680				2280										6.01							
OREAS 13P Cert			2500				2280										7.58							
26503 Ong	0.5	< 0.5	203	189	< 2	155	44	23	5.81	< 10	59	< 1	< 10	4.28	20	180	1.83	0.09	1.42	0.52	0.004	< 10	5	< 10
26603 Dup	0.5	< 0.5	194	185	< 2	156	45	23	5.67	< 10	56	< 1	< 10	4.25	20	175	1.77	0.08	1.38	0.50	0.004	< 10	5	< 10
24215 Ong	< 0.2	< 0.5	206	75	< 2	42	7	10	5.97	< 10	18	< 1	< 10	4.60	5	130	0.81	0.03	0.65	0.69	0.006	< 10	3	< 10
24215 Dup	0.2	< 0.5	206	78	< 2	45	2	11	6.22	< 10	19	< 1	< 10	4.77	6	137	0.84	0.03	0.68	0.73	0.006	< 10	3	< 10
24675 Ong	17.3	12.7	> 10000	213	< 2	5120	96	858	1.71	< 10	16	< 1	< 10	0.83	247	175	25.2	0.04	0.88	0.08	0.024	< 10	2	< 10
24675 Dup	17.9	12.6	> 10000	221	< 2	5330	96	831	1.75	< 10	16	< 1	< 10	0.86	253	181	27.3	0.04	0.81	0.06	0.025	< 10	2	< 10
26600 Ong	0.8	2.0	8960	273	< 2	> 10000	5	40	0.46	< 10	16	< 1	< 10	0.37	465	31	32.5	0.11	0.16	0.06	0.050	< 10	3	< 10
26600 Dup	0.8	2.2	8970	284	< 2	> 10000	5	42	0.50	< 10	13	< 1	< 10	0.38	501	32	33.3	0.11	0.17	0.06	0.051	< 10	4	< 10
51001 Ong	4.4	2.5	2050	285	< 2	1290	107	89	3.91	< 10	16	< 1	< 10	2.59	51	271	4.87	0.07	2.68	0.19	0.008	< 10	3	< 10
51001 Dup	4.4	2.5	1990	296	< 2	1250	101	89	3.84	< 10	16	< 1	< 10	2.58	53	266	4.67	0.07	2.70	0.19	0.007	< 10	3	< 10
51019 Ong	3.2	2.7	4180	235	< 2	3680	43	266	1.67	< 10	13	< 1	< 10	0.67	340	34	20.5	0.30	1.67	0.04	0.008	< 10	3	< 10
51019 Dup	3.1	2.8	4150	232	< 2	3670	47	260	1.68	< 10	13	< 1	< 10	0.66	331	34	20.4	0.30	1.69	0.04	0.008	< 10	3	11
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	7	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	200		80	210	25	14	0.231
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	80		66	15	12	10	2.085
GXR-4 Cert	221		67.0	30.8	14.0	186	1.77
GXR-2 Meas	85		51	< 10	12	10	0.040
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	36		186	< 10	7	13	0.018
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
26603 Orig	54	0.05	24	< 10	2	2	0.155
26603 Dup	53	0.05	23	< 10	2	1	0.158
24215 Orig	94	0.02	16	< 10	1	< 1	0.076
24215 Dup	101	0.02	16	< 10	1	< 1	0.078
24675 Orig	15	0.03	79	< 10	2	6	8.758
24675 Dup	16	0.03	82	< 10	2	6	8.898
26600 Orig	17	0.10	55	< 10	16	16	11.45
26600 Dup	16	0.11	57	< 10	16	17	12.94
51001 Orig	41	0.05	29	< 10	1	2	1.393
51001 Dup	40	0.05	29	< 10	1	2	1.386
51019 Orig	6	0.10	112	< 10	2	5	7.626
51019 Dup	6	0.10	110	< 10	2	5	7.501
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 28-Jul-08
Invoice No.: A08-4514 Additional
Invoice Date: 03-Dec-08
Your Reference: DOSSIER 22923

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

96 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4514 Additiona**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with some loops and flourishes.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Analyte Symbol	Ni	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FUS- Na2O2	AR-ICP	AR-ICP
28945		266	7
28948		10	8
28947		8	7
28948		15	8
28949		5	6
28950	1.81	7790	> 10000
51001		1970	1300
51002		1750	1850
51003		8360	6060
51004		1700	4770
30785		1060	647
30786		1330	1010
30787		2170	1500
30788		3660	1020
30789		8340	1780
30600	1.85	7640	> 10000
51015		2660	833
51018		1480	788
51017		2160	2780
51018		3220	3740
51019		3760	4040

Quality Control

Analyte Symbol	Ni	Cu	Ni
Unit Symbol	%	ppm	ppm
Detection Limit	0.005	1	1
Analysis Method	FJS- Ni2O2	AR-ICP	AR-ICP

GXR-1 Meas		1030	26
GXR-1 Cert		1110	41.0
UNG-1 Meas	0.024		
UNG-1 Cert	0.0247		
GXR-4 Meas		6530	40
GXR-4 Cert		6520	42.0
GXR-2 Meas		85	16
GXR-2 Cert		76.0	21.0
CHR-PT+ Meas	0.572		
CHR-PT+ Cert	0.589		
GXR-6 Meas		74	20
GXR-6 Cert		69.0	27.0
OREAS 13P Meas		2420	2360
OREAS 13P Cert		2500	2260
DTS 2b Meas	0.374		
DTS 2b Cert	0.378		
2854b Orig		269	7
2854b Dup		273	7
51017 Orig		2100	2660
51017 Dup		2210	2900
Method Blank Method		< 1	< 1
Blank			
Method Blank Method		< 1	< 1
Blank			
Method Blank Method		< 1	< 1
Blank			
Method Blank Method	< 0.005		
Blank			
Method Blank Method	< 0.005		
Blank			



Date Submitted: 28-Jul-08
Invoice No.: A08-4513
Invoice Date: 14-Aug-08
Your Reference: DOSSIER 22924

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

87 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4513**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A08-4513

Analyte Symbol Unit Symbol Detection Limit Analysis Method	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	
	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
27594	1.7	1.9	1310	40	< 2	> 10000	9	9	0.31	< 10	10	< 1	< 10	0.16	1420	39	37.6	0.04	0.22	0.02	0.004	10	1	< 10	
27565	9.4	1.9	7180	60	< 2	8260	3	47	1.24	< 10	25	< 1	< 10	0.08	642	78	25.6	0.47	1.26	0.06	0.006	< 10	4	< 10	
27595	14.4	1.9	> 10000	124	< 2	2660	6	94	1.95	< 10	34	< 1	< 10	0.18	216	45	12.4	0.25	1.65	0.06	0.012	< 10	2	< 10	
27597	7.2	2.0	5600	218	< 2	1050	5	155	2.55	< 10	16	< 1	< 10	0.46	355	133	10.4	0.51	2.23	0.11	0.006	< 10	5	< 10	
27598	2.3	1.1	1890	130	< 2	1410	6	82	2.78	< 10	46	< 1	< 10	0.78	80	126	8.02	0.99	1.83	0.13	0.005	< 10	6	< 10	
27559	0.8	< 0.5	645	55	< 2	369	5	56	1.35	< 10	80	< 1	< 10	0.17	42	52	3.02	0.34	1.23	0.07	0.007	< 10	4	< 10	
28000	0.9	2.0	9410	151	< 2	> 10000	5	39	0.35	< 10	10	< 1	< 10	0.27	527	32	33.1	0.10	0.12	0.06	0.052	< 10	2	< 10	
28601	1.0	1.7	497	130	2	46	5	59	1.48	< 10	180	< 1	< 10	0.07	8	68	1.79	0.33	1.21	0.06	0.007	< 10	3	< 10	
28502	< 0.2	< 0.5	89	159	< 2	30	2	69	2.04	< 10	333	< 1	< 10	0.06	8	65	2.44	0.70	1.65	0.07	0.014	< 10	5	< 10	
28503	2.0	1.4	696	101	2	72	6	72	1.87	< 10	100	< 1	< 10	0.38	13	66	2.54	0.37	1.21	0.12	0.013	< 10	3	< 10	
28504	0.4	0.8	434	214	< 2	92	2	81	2.37	< 10	170	< 1	< 10	0.10	14	55	3.42	0.88	2.27	0.06	0.009	< 10	7	< 10	
28505	1.5	1.4	894	203	2	66	3	98	2.20	< 10	234	< 1	< 10	0.04	13	73	2.50	0.66	1.75	0.06	0.003	< 10	5	< 10	
28506	0.4	0.6	192	216	< 2	24	2	86	2.20	< 10	241	< 1	< 10	0.09	9	81	2.70	0.75	1.99	0.06	0.005	< 10	6	< 10	
28507	1.2	0.8	790	247	< 2	63	< 2	103	2.35	< 10	193	< 1	< 10	0.11	18	53	3.58	0.70	2.33	0.05	0.010	< 10	8	< 10	
28508	2.2	1.4	1280	277	< 2	87	2	96	2.10	< 10	97	< 1	< 10	0.45	14	58	3.40	0.32	1.93	0.06	0.005	< 10	4	< 10	
28509	0.4	0.7	267	333	< 2	16	5	86	2.62	< 10	40	< 1	< 10	1.52	7	42	2.73	0.19	1.48	0.09	0.020	< 10	3	< 10	
28510	< 0.2	< 0.5	7	141	< 2	3	9	6	0.02	< 10	91	< 1	< 10	7.63	< 1	22	0.07	0.01	4.67	0.02	0.003	< 10	< 1	< 10	
28512	0.6	0.9	1210	99	6	216	6	35	2.95	< 10	73	< 1	< 10	1.93	32	66	2.13	0.26	1.23	0.16	0.025	< 10	1	< 10	
28513	< 0.2	< 0.5	279	102	< 2	36	< 2	14	1.00	< 10	17	< 1	< 10	1.23	20	35	1.54	0.01	0.47	0.09	0.058	< 10	2	< 10	
28514	0.2	< 0.5	428	99	< 2	26	4	16	2.34	< 10	20	< 1	< 10	2.00	13	34	1.13	0.02	0.33	0.14	0.053	< 10	2	< 10	
28515	0.4	< 0.5	589	119	< 2	59	3	19	0.71	< 10	23	< 1	< 10	0.75	30	41	1.83	0.03	0.41	0.07	0.053	< 10	2	< 10	
28516	0.4	1.2	566	122	< 2	46	2	50	1.48	< 10	9	< 1	< 10	1.56	16	41	0.99	0.01	0.46	0.06	0.058	< 10	1	< 10	
28517	< 0.2	< 0.5	16	140	< 2	29	< 2	23	1.39	< 10	8	< 1	< 10	0.52	38	45	3.74	0.01	1.85	0.04	0.062	< 10	3	< 10	
28518	< 0.2	0.5	5	128	< 2	69	< 2	30	1.77	< 10	5	< 1	< 10	0.23	42	48	6.98	< 0.01	2.63	0.01	0.062	< 10	2	< 10	
28519	< 0.2	< 0.5	3	102	< 2	54	< 2	18	1.09	< 10	4	< 1	< 10	0.29	24	39	4.37	< 0.01	1.66	0.02	0.046	< 10	1	< 10	
28520	12.0	< 0.5	1270	194	< 2	1260	10	23	2.86	< 10	14	< 1	< 10	1.56	40	74	2.48	0.02	1.94	0.21	0.004	< 10	1	< 10	
28521	< 0.2	< 0.5	316	71	< 2	28	< 2	15	3.88	< 10	28	< 1	< 10	2.78	8	45	0.92	0.07	0.63	0.50	0.014	< 10	1	< 10	
24225	< 0.2	< 0.5	72	104	< 2	31	7	10	2.62	< 10	15	< 1	< 10	1.91	8	47	0.87	0.02	0.47	0.25	0.017	< 10	2	< 10	
24226	< 0.2	< 0.5	81	67	< 2	38	10	8	2.51	< 10	10	< 1	< 10	2.48	8	42	0.66	0.01	0.30	0.31	0.016	< 10	2	< 10	
24227	< 0.2	< 0.5	60	127	< 2	32	7	15	2.62	< 10	9	< 1	< 10	2.64	8	64	1.07	0.01	0.62	0.25	0.013	< 10	2	< 10	
24228	< 0.2	< 0.5	60	67	2	29	7	7	2.73	< 10	8	< 1	< 10	2.37	5	29	0.40	0.97	0.01	0.30	0.27	0.014	< 10	1	< 10
24229	< 0.2	< 0.5	71	63	< 2	39	9	8	3.10	< 10	9	< 1	< 10	2.62	7	41	0.62	0.01	0.27	0.31	0.016	< 10	2	< 10	
24230	9.2	0.5	14	159	< 2	2	> 5000	86	0.03	553	456	< 1	446	9.07	< 1	12	0.10	0.01	4.85	0.05	0.012	31	< 1	< 10	
24231	< 0.2	< 0.5	118	132	< 2	46	8	12	2.75	< 10	9	< 1	< 10	2.44	12	58	1.03	0.02	0.49	0.24	0.021	< 10	2	< 10	
24232	< 0.2	< 0.5	63	131	< 2	36	52	15	2.71	< 10	14	< 1	< 10	2.52	9	62	1.23	0.01	0.73	0.25	0.012	< 10	2	< 10	
24233	< 0.2	< 0.5	82	76	< 2	37	9	8	2.60	< 10	9	< 1	< 10	2.19	9	36	0.74	0.01	0.35	0.27	0.017	< 10	2	< 10	
24234	< 0.2	< 0.5	61	76	< 2	37	10	8	1.94	< 10	8	< 1	< 10	1.61	8	40	0.70	0.01	0.35	0.28	0.018	< 10	2	< 10	
26551	< 0.2	< 0.5	8	33	< 2	6	7	4	0.19	< 10	6	< 1	< 10	0.07	< 1	74	0.29	0.07	0.05	0.003	0.007	< 10	< 1	< 10	
28562	< 0.2	< 0.5	16	457	< 2	27	6	35	1.85	< 10	10	2	< 10	0.22	7	162	3.66	0.09	2.13	0.02	0.050	< 10	6	< 10	
28563	< 0.2	< 0.5	86	30	< 2	9	< 2	6	0.17	< 10	6	< 1	< 10	0.02	< 1	79	0.26	0.08	0.08	0.02	0.002	< 10	< 1	< 10	
28564	< 0.2	< 0.5	17	43	2	6	2	4	0.15	< 10	6	< 1	< 10	0.03	< 1	100	0.29	0.09	0.05	0.03	0.004	< 10	< 1	< 10	
28565	< 0.2	< 0.5	6	32	< 2	7	3	3	0.15	< 10	6	2	< 10	0.04	1	118	0.35	0.06	0.05	0.04	0.008	< 10	< 1	< 10	
28566	< 0.2	< 0.5	6	30	3	8	2	2	0.06	< 10	5	< 1	< 10	0.03	1	100	0.22	0.01	0.02	0.04	0.006	< 10	< 1	< 10	
28567	< 0.2	< 0.5	7	47	< 2	6	3	5	0.17	< 10	7	< 1	< 10	0.05	1	94	0.37	0.06	0.06	0.05	0.012	< 10	< 1	< 10	
28568	< 0.2	< 0.5	13	70	3	11	3	8	0.25	< 10	6	< 1	< 10	0.05	1	73	0.50	0.05	0.23	0.04	0.012	< 10	< 1	< 10	
28569	0.2	1.4	33	188	< 2	17	6	162	1.07	< 10	5	< 1	< 10	0.06	4	59	1.43	0.05	1.34	0.04	0.019	< 10	1	< 10	
28570	0.4	< 0.5	1420	199	< 2	1320	7	23	3.13	< 10	14	< 1	< 10	1.62	42	78	2.60	0.02	2.02	0.24	0.004	< 10	2	< 10	
28571	< 0.2	< 0.5	9	45	2	8	5	24	0.28	< 10	6	< 1	< 10	0.09	2	39	0.35	0.07	0.18	0.03	0.030	< 10	< 1	< 10	
24255	15.0	15.2	6920	498	< 2	456	782	391	2.05	< 10	17	< 1	< 10	31	35	101	108	7.70	0.06	2.01	0.03	0.024	< 10	5	< 10
24256	35.5	19.2	> 10000	417	< 2	446	1750	432	1.91	< 10	20	< 1	< 10	57	47	33	171	6.66	0.07	1.63	0.05	0.033	< 10	2	< 10
24257	31.1	13.2	> 10000	504	< 2	2360	1000	494	2.10	< 10	11	< 1	< 10	27	19	150	66	13.8	0.03	1.59	0.02	0.026	< 10	3	< 10
24258	16.0	19.1	6270	372	< 2	240	631	435	1.41	< 10	13	< 1	< 10	36	27	23	212	4.66	0.05	1.35	0.02	0.024	< 10	2	< 10

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
24259	33.2	20.8	> 10000	478	< 2	2600	344	593	2.03	< 10	10	< 1	< 10	0.21	33	106	15.5	0.03	1.92	0.02	0.023	< 10	3	< 10
24260	2.2	7.8	44	273	< 2	3	544	358	0.02	< 10	60	< 1	< 10	10.3	< 1	9	0.09	0.01	8.07	0.02	0.004	< 10	< 1	< 10
24261	12.2	15.4	> 10000	540	< 2	307	345	592	2.61	< 10	12	< 1	< 10	0.52	36	79	8.43	0.04	2.12	0.06	0.039	< 10	3	< 10
24262	51.7	48.7	> 10000	393	< 2	2210	246	1730	1.85	< 10	13	< 1	< 10	0.23	110	118	17.0	0.05	1.57	0.02	0.036	< 10	3	< 10
24263	16.1	24.7	> 10000	499	< 2	341	396	1000	2.35	< 10	12	< 1	< 10	0.28	42	214	9.07	0.04	1.90	0.03	0.042	< 10	4	< 10
24264	17.0	19.7	> 10000	302	< 2	2360	235	839	1.71	< 10	17	< 1	< 10	0.59	686	45	17.7	0.18	1.35	0.03	0.056	< 10	4	< 10
24263	4.5	3.5	3460	590	< 2	109	103	249	2.76	< 10	40	< 1	< 10	1.06	33	56	7.91	0.11	2.62	0.03	0.091	< 10	7	< 10
24264	9.0	24.3	7130	211	< 2	4660	63	1090	1.26	< 10	16	< 1	< 10	0.30	273	63	20.1	0.20	1.13	0.03	0.041	< 10	3	< 10
24265	2.2	3.2	2250	222	< 2	241	34	287	2.14	< 10	153	< 1	< 10	0.53	33	57	5.57	0.59	1.99	0.09	0.077	< 10	9	< 10
24266	1.1	2.0	823	254	< 2	146	76	225	2.15	< 10	79	< 1	< 10	0.89	27	136	4.87	0.27	1.48	0.10	0.040	< 10	6	< 10
24267	0.2	< 0.5	65	179	< 2	26	68	84	1.27	< 10	17	< 1	< 10	1.02	7	61	1.29	0.05	0.73	0.05	0.017	< 10	2	< 10
24268	4.5	22.0	4900	427	< 2	608	92	1710	2.02	< 10	14	< 1	< 10	0.70	535	95	13.0	0.08	1.61	0.03	0.020	< 10	3	< 10
24269	4.6	6.4	4560	430	< 2	1210	109	517	2.26	< 10	39	< 1	< 10	0.39	210	163	10.6	0.20	1.63	0.07	0.012	< 10	3	< 10
24260	0.5	< 0.5	1260	191	< 2	1270	8	24	2.62	< 10	14	< 1	< 10	1.55	41	71	2.50	0.02	1.92	0.21	0.003	< 10	1	< 10
24261	3.3	9.5	3100	184	< 2	3440	52	637	1.65	< 10	19	< 1	< 10	0.26	183	59	17.0	0.45	1.36	0.03	0.025	< 10	4	< 10
24262	5.6	7.6	3610	278	< 2	361	99	656	2.74	< 10	66	< 1	< 10	0.43	36	66	8.90	1.26	3.21	0.06	0.069	< 10	14	16
26634	0.2	0.8	323	462	< 2	35	8	113	2.59	< 10	93	< 1	< 10	0.29	19	42	5.23	0.40	2.76	0.03	0.049	< 10	7	< 10
26635	1.5	2.3	1140	384	< 2	96	49	138	2.26	< 10	157	< 1	< 10	0.26	22	46	4.69	0.63	2.11	0.04	0.032	< 10	6	< 10
26835	25.4	27.0	> 10000	515	< 2	1170	137	733	2.48	< 10	28	< 1	< 10	0.24	42	67	11.6	0.60	2.58	0.03	0.032	< 10	8	26
26837	31.8	182	8960	146	< 2	8110	36	4690	0.71	< 10	23	< 1	< 10	0.09	179	11	26.6	0.23	0.65	0.01	0.018	< 10	2	20
26838	16.9	47.8	> 10000	450	< 2	1290	126	1190	2.61	< 10	32	< 1	< 10	0.46	59	32	12.1	0.35	2.01	0.06	0.067	< 10	7	14
26839	47.2	162	> 10000	380	< 2	3160	220	3420	1.64	< 10	11	< 1	< 10	0.23	256	35	22.6	0.26	1.41	0.02	0.043	< 10	4	18
26840	0.6	0.5	1370	194	< 2	1260	14	25	2.93	< 10	13	< 1	< 10	1.56	41	73	2.56	0.02	1.94	0.21	0.003	< 10	1	< 10
26841	5.5	12.1	3240	343	< 2	292	164	334	1.87	< 10	84	< 1	< 10	0.17	23	60	6.17	0.30	1.76	0.03	0.021	< 10	4	16
26842	13.0	33.3	8210	861	< 2	376	502	856	3.03	< 10	16	< 1	< 10	0.46	95	63	12.3	0.05	2.93	0.02	0.035	< 10	8	13
26843	7.8	7.2	2620	676	< 2	92	377	475	3.66	< 10	73	< 1	< 10	0.60	26	66	6.69	0.21	3.40	0.06	0.057	< 10	10	< 10
30678	30.2	41.3	> 10000	510	< 2	1370	420	1840	2.77	< 10	18	< 1	< 10	0.22	89	81	12.8	0.10	3.05	0.05	0.015	< 10	5	< 10
30679	6.6	12.0	2100	226	< 2	654	235	596	1.77	< 10	14	< 1	< 10	0.33	34	71	5.96	0.04	1.31	0.07	0.011	< 10	2	< 10
30680	0.2	< 0.5	93	188	< 2	12	9	23	0.03	< 10	75	< 1	< 10	7.66	1	36	0.18	< 0.01	5.12	0.01	0.004	< 10	< 1	< 10
30681	6.4	9.0	2770	832	< 2	3250	294	436	3.41	< 10	7	< 1	< 10	0.13	88	62	21.4	0.02	3.42	0.02	0.018	< 10	6	< 10
30682	7.7	11.0	4600	356	< 2	8340	226	555	1.30	< 10	5	< 1	< 10	0.06	209	124	35.5	0.01	1.34	0.01	0.008	10	2	< 10
30683	8.5	10.7	5560	235	< 2	8790	180	351	0.73	< 10	8	< 1	< 10	0.09	453	96	33.6	0.02	0.48	0.02	0.008	< 10	1	< 10
30685	22.5	33.5	> 10000	444	< 2	4960	154	657	1.62	< 10	9	< 1	< 10	0.20	363	101	27.1	0.02	1.05	0.01	0.019	< 10	2	< 10
30686	19.2	23.4	> 10000	427	< 2	1130	221	732	1.70	< 10	4	< 1	< 10	0.13	1170	131	24.6	0.01	1.31	0.01	0.019	< 10	3	< 10
30687	19.3	32.8	> 10000	406	< 2	976	248	1120	2.16	< 10	10	< 1	< 10	0.13	254	66	13.2	0.04	1.54	0.02	0.028	< 10	5	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
27984	2	0.01	40	< 10	< 1	7	9.074
27665	3	0.07	160	< 10	< 1	5	4.182
27995	11	0.02	51	< 10	1	3	3.151
27987	15	0.07	96	< 10	1	2	5.332
27998	17	0.07	91	< 10	1	2	3.050
27959	8	0.05	31	< 10	1	1	1.059
28000	11	0.04	57	< 10	12	13	7.365
28601	7	0.04	16	< 10	1	1	0.184
28502	7	0.08	22	< 10	1	1	0.025
28603	12	0.05	44	< 10	2	1	0.407
28504	9	0.08	35	< 10	1	1	0.186
28505	7	0.05	16	< 10	1	1	0.131
28606	11	0.09	37	< 10	1	1	0.032
28507	7	0.08	52	< 10	1	1	0.193
28508	8	0.04	22	< 10	2	1	0.283
28609	15	0.04	17	< 10	7	1	0.206
28510	74	< 0.01	1	< 10	< 1	< 1	0.065
28612	90	0.04	27	< 10	2	1	0.427
28913	23	0.04	28	< 10	3	1	0.415
28914	51	0.05	24	< 10	3	1	0.238
28915	11	0.05	33	< 10	3	1	0.536
28916	26	0.07	20	< 10	3	1	0.105
28917	6	0.03	109	< 10	3	2	0.041
28918	2	0.02	143	< 10	2	2	0.011
28919	2	0.03	112	< 10	1	1	0.013
28620	43	0.01	27	< 10	< 1	1	0.466
28921	70	0.01	14	< 10	1	< 1	0.081
24225	41	0.01	15	< 10	1	< 1	0.073
24225	49	0.01	11	< 10	1	< 1	0.120
24227	37	0.01	16	< 10	1	< 1	0.082
24228	42	0.01	6	< 10	< 1	< 1	0.064
24229	48	0.01	10	< 10	1	< 1	0.101
24230	138	< 0.01	1	< 10	< 1	< 1	0.161
24231	35	0.01	16	< 10	1	< 1	0.207
24232	32	0.01	21	< 10	1	1	0.074
24233	43	0.01	12	< 10	1	< 1	0.121
24234	31	0.01	12	< 10	1	< 1	0.108
26561	3	< 0.01	1	< 10	2	< 1	0.009
28662	3	0.03	43	< 10	9	3	0.024
28583	1	< 0.01	1	< 10	1	< 1	0.019
28564	1	< 0.01	< 1	< 10	1	1	0.030
28665	2	< 0.01	< 1	< 10	12	3	0.108
28566	1	< 0.01	< 1	< 10	2	1	0.033
28507	2	< 0.01	< 1	< 10	5	2	0.086
28588	2	< 0.01	< 1	< 10	4	1	0.078
26569	2	< 0.01	2	< 10	9	5	0.123
28670	45	0.01	27	< 10	< 1	1	0.469
28571	1	< 0.01	< 1	< 10	4	3	0.071
24255	6	0.04	73	< 10	3	2	3.007
24256	9	0.02	103	< 10	3	2	2.115
24257	6	0.02	77	< 10	3	3	3.010
24258	7	0.02	102	< 10	2	1	1.096

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24256	6	0.02	76	< 10	2	4	3.309
24260	132	< 0.01	1	< 10	< 1	< 1	0.112
24261	12	0.03	81	< 10	4	2	1.565
24262	6	0.03	77	< 10	2	4	4.647
24263	7	0.02	122	< 10	3	2	1.905
24264	7	0.05	72	< 10	4	4	6.023
24663	6	0.07	116	< 10	5	2	0.631
24684	5	0.05	87	< 10	3	4	4.299
24685	11	0.11	113	< 10	6	2	0.830
24686	14	0.05	106	< 10	3	1	0.903
24687	13	0.01	19	< 10	1	< 1	0.032
24688	6	0.02	53	< 10	2	3	7.090
24689	8	0.04	61	< 10	1	3	2.567
24690	43	0.01	26	< 10	< 1	1	0.460
24691	4	0.07	72	< 10	1	3	3.430
24692	5	0.18	120	< 10	4	2	1.551
26634	9	0.10	51	< 10	11	2	0.160
26635	7	0.11	26	< 10	7	2	0.458
26836	8	0.10	55	< 10	5	3	3.289
26837	3	0.04	36	< 10	2	6	6.964
26838	13	0.06	78	< 10	6	3	2.907
26839	4	0.05	48	< 10	3	5	4.804
26840	43	0.01	26	< 10	< 1	1	0.453
28841	7	0.07	20	< 10	8	3	1.015
26642	8	0.04	122	< 10	4	3	3.365
29643	26	0.06	139	< 10	5	2	0.619
30676	17	0.02	100	< 10	2	3	4.335
30676	23	0.01	97	< 10	1	2	1.890
30680	72	< 0.01	1	< 10	< 1	< 1	0.094
30681	9	0.01	69	< 10	3	4	4.077
30682	2	0.01	97	10	1	7	6.578
30683	2	0.01	84	< 10	1	7	7.398
30685	2	0.01	90	< 10	1	5	6.524
30686	1	0.01	75	< 10	1	5	13.97
30687	3	0.04	61	< 10	8	4	5.802

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Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	24.9	3.7	1240	738	15	36	998	517	0.32	365	354	1	1910	0.74	9	7	25.5	0.02	0.13	0.07	0.041	88	1	27
GXR-1 Cert	31.0	3.30	1140	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.3	0.7	6900	134	338	42	40	56	2.66	106	34	1	<10	0.93	15	57	3.60	1.47	1.72	0.14	0.131	<10	7	<10
GXR-4 Cert	4.00	0.860	6920	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	17.2	4.5	86	1010	<2	17	725	528	3.47	11	1330	1	<10	0.80	10	26	2.13	0.55	0.53	0.30	0.058	29	4	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	0.7	78	1050	2	27	101	124	7.34	258	974	1	<10	0.16	15	90	7.03	1.03	0.45	0.15	0.037	<10	23	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2530			2110																		
OREAS 13P Cert			2500			2280																		
28505 Ong	0.2	0.6	189	214	<2	24	2	86	2.16	<10	240	<1	<10	0.09	9	80	2.69	0.75	1.98	0.06	0.005	<10	6	<10
28505 Dup	0.6	0.6	195	218	<2	23	2	86	2.24	<10	241	<1	<10	0.09	9	81	2.71	0.76	2.01	0.06	0.005	<10	6	<10
28621 Ong	0.2	<0.5	319	72	<2	29	<2	15	3.68	<10	28	<1	<10	2.78	7	46	0.92	0.07	0.64	0.51	0.014	<10	1	<10
28621 Dup	<0.2	<0.5	313	69	<2	27	<2	15	3.83	<10	28	<1	<10	2.77	8	44	0.91	0.07	0.63	0.50	0.014	<10	1	<10
28563 Ong	<0.2	<0.5	66	29	<2	10	<2	5	0.16	<10	6	<1	<10	0.03	<1	80	0.26	0.08	0.06	0.02	0.002	<10	<1	<10
28563 Dup	<0.2	<0.5	64	30	<2	7	<2	6	0.18	<10	5	<1	<10	0.02	<1	76	0.27	0.08	0.05	0.02	0.002	<10	<1	<10
24260 Ong	2.2	7.8	47	222	<2	4	538	389	0.02	<10	59	<1	<10	10.3	<1	9	0.09	0.01	8.02	0.02	0.004	<10	<1	<10
24260 Dup	2.2	7.8	40	223	<2	2	549	386	0.02	<10	60	<1	<10	10.4	<1	9	0.08	0.01	8.12	0.02	0.004	<10	<1	<10
26642 Ong	13.2	33.2	8190	874	<2	378	513	872	3.05	<10	16	<1	<10	0.47	93	84	12.5	0.05	2.98	0.02	0.036	<10	8	13
26642 Dup	12.8	33.3	8230	848	<2	374	491	840	3.02	<10	15	<1	14	0.45	97	61	12.2	0.05	2.88	0.02	0.035	<10	8	12
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	4	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								
Method Blank Method	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	0.01	<0.001	<10	<1	<10
Blank																								

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	188		75	139	23	13	0.218
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	75		85	12	12	10	2.010
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	93		48	< 10	11	11	0.038
GXR-2 Cert	180		52.0	1.90	17.0	289	0.0313
GXR-6 Meas	34		188	< 10	7	12	0.017
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
28505 Orig	10	0.05	36	< 10	1	1	0.032
28505 Dup	11	0.05	37	< 10	1	1	0.032
28621 Orig	72	0.01	14	< 10	1	< 1	0.081
28621 Dup	88	0.01	14	< 10	1	< 1	0.081
28653 Orig	1	< 0.01	1	< 10	1	< 1	0.019
28653 Dup	1	< 0.01	1	< 10	1	< 1	0.019
24260 Orig	131	< 0.01	1	< 10	< 1	< 1	0.113
24260 Dup	133	< 0.01	1	< 10	< 1	< 1	0.111
28642 Orig	8	0.04	124	< 10	4	3	3.414
28642 Dup	8	0.04	120	< 10	4	3	3.315
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 28-Jul-08
Invoice No.: A08-4511
Invoice Date: 27-Aug-08
Your Reference: DOSSIER 22925

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

74 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4511**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style with a long horizontal stroke at the end.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

Activation Laboratories Ltd. Report: A08-4511

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
26624	3.2	3.4	3460	95	<2	>10000	33	87	0.39	<10	6	<1	<10	0.19	318	58	43.2	0.02	0.40	0.01	0.004	13	<1	<10
26625	5.6	8.7	5480	273	<2	1790	144	350	2.31	<10	18	<1	<10	1.47	141	103	8.49	0.07	1.24	0.14	0.005	<10	3	<10
26626	3.4	4.0	3110	312	<2	1710	160	258	2.43	<10	23	<1	<10	1.53	125	88	9.30	0.09	1.51	0.11	0.008	<10	4	<10
26627	1.6	2.8	904	274	<2	344	194	140	2.63	<10	23	<1	<10	2.41	39	114	2.97	0.08	1.21	0.17	0.009	<10	4	<10
26628	5.9	4.4	4280	375	<2	484	171	271	2.39	<10	49	<1	<10	1.57	56	166	5.08	0.19	2.36	0.08	0.031	<10	6	<10
26629	<0.2	0.9	119	332	<2	66	14	79	2.33	<10	43	<1	<10	0.97	20	77	5.09	0.20	1.51	0.08	0.006	<10	8	<10
26630	<0.2	<0.5	27	222	<2	6	29	55	0.07	<10	139	<1	<10	11.3	<1	26	0.20	0.02	7.03	0.03	0.011	<10	<1	<10
26631	<0.2	0.8	35	267	<2	30	6	46	1.88	<10	38	<1	<10	1.04	15	84	4.70	0.09	1.60	0.07	0.102	<10	6	<10
26632	<0.2	0.8	34	351	<2	36	3	41	2.17	<10	23	<1	<10	0.94	21	67	5.60	0.09	2.68	0.05	0.100	<10	11	<10
26633	<0.2	1.1	76	390	<2	40	4	71	2.76	<10	85	<1	<10	0.79	24	72	6.42	0.41	3.05	0.06	0.100	<10	11	<10
30691	1.0	1.1	1170	145	<2	145	<2	50	2.20	<10	82	<1	<10	0.29	35	157	4.75	0.82	2.48	0.11	0.019	<10	8	<10
30692	0.2	<0.5	135	113	<2	66	<2	14	6.30	<10	81	<1	<10	4.94	9	210	1.46	0.14	0.85	0.41	0.007	<10	3	<10
30693	<0.2	<0.5	93	81	<2	78	5	15	5.69	<10	74	<1	<10	4.57	10	262	1.22	0.27	0.88	0.74	0.020	<10	2	<10
30694	<0.2	<0.5	153	58	<2	97	4	10	6.28	<10	26	<1	<10	4.99	9	134	0.86	0.08	0.51	0.68	0.10	<10	1	<10
30695	<0.2	<0.5	70	72	<2	34	3	7	5.93	<10	27	<1	<10	4.88	6	127	0.81	0.06	0.59	0.53	0.008	<10	2	<10
30696	0.2	<0.5	138	67	<2	62	3	9	6.99	<10	19	<1	<10	6.51	8	138	0.80	0.06	0.63	0.56	0.007	<10	2	<10
30697	<0.2	<0.5	126	59	<2	64	4	10	8.37	<10	56	<1	<10	6.67	8	216	0.92	0.13	0.64	0.53	0.037	<10	2	<10
30698	<0.2	<0.5	143	72	<2	83	6	20	8.48	<10	126	<1	<10	6.36	11	301	1.32	0.32	0.62	0.66	0.016	<10	2	<10
30699	<0.2	<0.5	147	203	3	37	<2	27	3.04	<10	724	<1	<10	0.34	13	187	3.07	0.59	1.98	0.19	0.010	<10	7	<10
30600	0.8	2.6	8480	241	<2	>10000	7	40	0.42	<10	5	<1	<10	0.35	500	30	32.2	0.10	0.15	0.07	0.046	<10	3	<10
26946	0.6	1.1	135	760	2	15	27	169	4.46	<10	282	<1	<10	0.84	22	61	5.93	1.80	2.97	0.12	0.083	<10	11	<10
26947	<0.2	0.8	17	769	<2	9	26	149	4.04	<10	447	<1	<10	0.85	15	62	5.21	1.48	2.44	0.18	0.078	<10	11	<10
26948	0.3	0.8	80	630	<2	10	17	132	3.37	<10	353	<1	<10	1.39	17	66	5.36	1.02	2.16	0.15	0.084	<10	9	<10
26949	<0.2	<0.5	7	572	2	8	14	103	2.14	<10	178	<1	<10	1.30	9	73	3.04	0.46	1.62	0.08	0.051	<10	6	<10
26950	0.9	2.6	8770	243	<2	>10000	7	41	0.43	<10	5	<1	<10	0.35	500	30	32.5	0.11	0.15	0.07	0.046	<10	3	<10
26951	<0.2	0.6	13	458	2	13	8	90	2.20	<10	81	<1	<10	0.54	3	103	2.26	0.53	1.67	0.06	0.007	<10	2	<10
26952	0.3	1.8	622	486	3	21	9	324	2.89	<10	113	<1	<10	0.31	16	92	8.23	0.91	2.09	0.06	0.028	<10	4	<10
26953	<0.2	0.5	42	446	<2	19	5	99	2.63	<10	120	<1	<10	0.25	5	91	3.30	0.55	1.68	0.06	0.016	<10	3	<10
26954	<0.2	0.7	36	813	2	13	4	87	2.80	<10	200	<1	<10	0.42	10	77	4.80	0.72	1.95	0.08	0.043	<10	6	<10
26955	0.5	3.8	939	510	<2	11	4	551	2.64	<10	86	<1	<10	0.33	13	117	5.07	0.96	1.58	0.07	0.019	<10	3	<10
29003	0.5	0.5	1040	91	<2	1060	3	18	11.1	36	17	<1	<10	8.48	51	82	2.00	0.03	0.67	0.58	0.004	<10	2	<10
29004	<0.2	<0.5	80	176	<2	273	<2	30	3.03	<10	16	<1	<10	1.07	37	194	2.98	0.05	3.79	0.09	0.004	<10	2	<10
29005	0.2	<0.5	392	118	<2	164	<2	17	5.68	<10	42	<1	<10	4.36	18	48	1.67	0.15	1.65	0.24	0.011	<10	2	<10
29006	<0.2	<0.5	273	149	<2	221	<2	23	3.17	<10	8	<1	<10	1.33	28	81	2.40	0.01	3.19	0.10	0.012	<10	1	<10
29007	<0.2	0.7	232	168	<2	261	<2	32	5.15	<10	72	<1	<10	1.97	27	137	4.03	0.20	4.55	0.12	0.008	<10	1	<10
29008	<0.2	<0.5	25	137	<2	204	<2	22	7.45	<10	164	<1	<10	4.96	23	145	3.01	0.54	3.19	0.24	0.009	<10	2	<10
29009	0.2	<0.5	62	149	<2	182	<2	17	6.47	<10	98	<1	<10	4.83	49	52	2.31	0.31	2.45	0.21	0.040	<10	1	<10
29010	<0.2	<0.5	3	186	<2	7	7	12	0.12	<10	162	<1	<10	9.96	<1	23	0.12	0.01	5.31	0.04	0.005	<10	<1	<10
29011	1.1	<0.5	1210	110	<2	401	19	31	5.07	<10	107	<1	<10	3.89	147	76	2.26	0.34	2.18	0.19	0.085	<10	1	<10
29012	<0.2	<0.5	119	185	<2	44	11	18	2.18	<10	12	<1	<10	1.95	11	88	1.30	0.02	0.85	0.32	0.014	<10	5	<10
24235	0.2	<0.5	102	129	<2	35	34	21	4.11	<10	12	<1	<10	3.24	5	141	1.15	0.02	0.78	0.67	0.009	<10	3	<10
24236	39.3	9.5	>10000	192	<2	655	93	275	1.77	<10	11	<1	<10	1.53	242	67	6.70	0.03	0.69	0.14	0.025	<10	2	<10
24237	39.4	9.1	>10000	200	<2	645	88	259	1.82	<10	10	<1	<10	1.62	246	80	5.77	0.03	1.04	0.14	0.026	<10	2	<10
24238	2.5	0.8	1180	151	<2	116	42	40	3.38	<10	21	<1	<10	2.85	17	125	1.76	0.06	1.11	0.44	0.012	<10	3	<10
24239	0.7	0.9	382	111	<2	129	84	33	4.04	<10	15	<1	<10	3.14	11	114	1.35	0.02	0.73	0.67	0.009	<10	4	<10
24240	0.5	0.5	1270	323	<2	1360	8	31	4.55	<10	18	<1	<10	2.44	49	118	3.86	0.03	3.25	0.30	0.003	<10	2	<10
24241	1.6	2.2	1790	139	<2	1280	71	98	3.13	<10	19	<1	<10	2.62	78	176	6.42	0.04	0.81	0.47	0.013	<10	4	<10
24242	6.1	5.2	5490	137	<2	2280	78	234	2.78	<10	22	<1	<10	1.80	272	130	11.4	0.08	0.92	0.38	0.014	<10	2	<10
24243	3.9	4.3	3460	203	<2	1560	110	193	3.82	<10	18	<1	<10	2.41	59	191	8.38	0.06	1.37	0.40	0.007	<10	4	<10
24244	15.3	18.6	>10000	242	<2	1220	134	665	2.87	<10	20	<1	<10	1.82	74	226	8.14	0.05	1.31	0.27	0.012	<10	5	<10
29023	0.5	0.6	349	109	10	53	4	67	2.57	<10	97	<1	<10	0.47	11	80	2.42	0.75	2.03	0.20	0.002	<10	3	<10
29024	4.7	2.3	3610	116	<2	215	4	110	2.71	<10	31	<1	<10	0.55	101	81	4.65	1.06	2.64	0.24	0.004	<10	3	<10

Activation Laboratories Ltd. Report: A08-4511

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
29025	0.9	0.8	466	64	<2	107	9	42	5.55	<10	129	<1	<10	3.51	14	450	1.96	0.70	1.68	0.40	0.094	<10	4	<10
29026	1.9	0.9	1020	68	<2	267	11	37	7.27	<10	147	<1	<10	6.23	33	226	2.37	0.49	1.35	0.60	0.094	<10	2	<10
29027	0.5	<0.5	337	56	<2	204	14	27	7.03	<10	84	<1	<10	6.14	20	196	1.53	0.34	1.09	0.54	0.094	<10	2	<10
29028	0.5	<0.5	222	62	<2	128	12	18	6.65	<10	54	<1	<10	5.36	13	163	1.03	0.20	0.83	0.47	0.096	<10	2	<10
29029	3.4	1.3	1370	57	<2	267	16	36	7.64	<10	117	<1	<10	6.69	27	229	1.68	0.32	0.84	0.45	0.096	<10	2	<10
29030	<0.2	<0.5	31	187	<2	9	10	22	0.11	<10	69	<1	<10	9.07	<1	27	0.10	0.01	4.65	0.03	0.003	<10	<1	<10
29031	0.2	<0.5	190	122	<2	47	7	48	4.15	<10	183	<1	<10	2.03	9	122	2.40	0.60	1.52	0.33	0.094	<10	4	<10
29032	0.3	0.7	246	207	<2	33	9	89	4.07	<10	128	<1	<10	1.62	13	86	4.36	0.76	1.71	0.28	0.014	<10	6	<10
26543	<0.2	1.0	89	405	<2	15	14	132	2.16	<10	219	<1	<10	0.18	9	71	4.09	0.52	1.77	0.06	0.023	<10	5	<10
26544	<0.2	1.0	39	571	<2	19	13	92	2.67	<10	81	<1	<10	1.36	18	79	6.01	0.51	2.89	0.03	0.058	<10	10	<10
26545	<0.2	0.8	75	422	<2	45	14	75	2.73	<10	70	<1	<10	1.52	22	169	5.41	0.49	2.85	0.05	0.044	<10	10	<10
26546	0.4	1.1	1160	466	<2	15	5	156	2.01	<10	41	<1	<10	0.33	19	97	7.68	0.40	1.66	0.03	0.013	<10	2	<10
26523	<0.2	0.9	65	468	<2	15	7	172	1.91	<10	36	<1	<10	2.13	15	50	3.64	0.14	1.74	0.03	0.021	<10	7	<10
26524	<0.2	0.7	15	358	<2	14	17	75	1.50	<10	27	<1	<10	0.48	8	126	2.85	0.09	1.42	0.03	0.017	<10	3	<10
26525	<0.2	0.8	36	317	<2	13	2	47	2.23	<10	28	<1	<10	0.13	8	67	4.72	0.09	2.05	0.02	0.028	<10	2	<10
26526	<0.2	0.8	190	392	<2	14	2	61	2.22	<10	44	<1	<10	0.12	12	83	6.36	0.14	1.85	0.02	0.028	<10	2	<10
26527	<0.2	0.5	48	289	<2	14	2	45	1.60	<10	31	<1	<10	0.14	9	65	3.30	0.10	1.60	0.03	0.023	<10	2	<10
26528	<0.2	<0.5	60	300	<2	26	2	68	1.63	<10	32	<1	<10	0.71	9	86	2.82	0.12	1.76	0.03	0.030	<10	2	<10
26529	2.5	1.5	1440	411	<2	483	11	92	2.17	26	11	<1	<10	0.12	153	47	10.1	0.08	2.09	0.02	0.020	<10	3	<10
26530	<0.2	<0.5	36	216	<2	15	4	6	0.05	<10	75	<1	<10	11.4	1	42	0.24	0.01	6.13	0.02	0.095	<10	<1	<10
26531	13.0	2.8	>10000	445	<2	174	6	217	2.95	<10	13	<1	<10	0.11	16	51	7.85	0.03	3.20	0.02	0.025	<10	3	<10
26532	3.9	0.8	2770	310	<2	138	5	68	2.29	<10	28	1	<10	0.13	30	72	4.85	0.10	2.40	0.02	0.015	<10	2	<10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
26624	2	< 0.01	19	< 10	< 1	11	4.503
26625	20	0.03	34	< 10	1	3	3.684
26626	29	0.05	42	< 10	2	3	3.344
26627	35	0.04	35	< 10	2	1	0.712
26628	10	0.11	95	< 10	5	2	1.527
26629	15	0.13	125	< 10	11	2	0.301
26630	93	< 0.01	3	< 10	< 1	< 1	0.100
26631	17	0.14	99	< 10	15	3	0.092
26632	25	0.15	115	< 10	16	3	0.085
26633	17	0.21	142	< 10	16	4	0.052
30691	12	0.15	56	< 10	4	4	0.903
30692	72	0.05	32	< 10	1	< 1	0.136
30693	77	0.04	32	< 10	2	1	0.063
30694	85	0.02	13	< 10	1	< 1	0.123
30695	87	0.03	14	< 10	1	< 1	0.042
30696	96	0.03	16	< 10	< 1	< 1	0.092
30697	113	0.04	23	< 10	5	< 1	0.091
30698	94	0.04	43	< 10	3	< 1	0.109
30699	9	0.10	35	< 10	3	2	0.058
30900	13	0.06	56	< 10	15	17	9.112
26946	19	0.27	76	< 10	5	5	0.273
26947	15	0.27	76	< 10	5	6	0.036
26948	19	0.25	70	< 10	11	7	0.229
26949	17	0.17	32	< 10	16	12	0.049
26950	14	0.09	59	< 10	15	17	7.487
26951	8	0.06	2	< 10	15	26	0.023
26952	10	0.14	33	< 10	8	12	0.836
26953	9	0.07	10	< 10	9	14	0.037
26954	7	0.12	51	< 10	9	10	0.015
26955	8	0.09	14	< 10	8	16	0.926
29003	380	0.02	13	< 10	1	< 1	0.647
29004	24	0.02	17	< 10	< 1	1	0.021
29005	174	0.04	15	< 10	< 1	< 1	0.094
29006	44	0.02	13	< 10	< 1	< 1	0.043
29007	95	0.06	30	< 10	< 1	1	0.041
29008	258	0.08	32	< 10	< 1	< 1	0.033
29009	212	0.05	22	< 10	1	< 1	0.040
29010	103	< 0.01	1	< 10	< 1	< 1	0.069
29011	177	0.06	23	< 10	2	< 1	0.282
29012	27	0.05	33	< 10	2	< 1	0.079
24235	51	0.03	20	< 10	1	< 1	0.043
24236	19	0.02	16	< 10	< 1	2	4.827
24237	20	0.02	17	< 10	1	2	4.711
24238	51	0.05	25	< 10	2	1	0.389
24239	82	0.02	21	< 10	< 1	< 1	0.204
24240	51	0.02	39	< 10	< 1	1	0.447
24241	47	0.03	27	< 10	1	3	3.006
24242	35	0.04	32	< 10	< 1	4	4.038
24243	43	0.04	40	< 10	< 1	3	3.759
24244	28	0.04	47	< 10	1	3	3.992
29023	13	0.07	20	< 10	1	2	0.277
29024	11	0.08	25	< 10	1	2	1.522

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
29025	37	0.07	47	< 10	2	1	0.178
29026	76	0.07	30	< 10	< 1	< 1	0.578
29027	77	0.04	23	< 10	< 1	< 1	0.329
29028	71	0.03	16	< 10	< 1	< 1	0.166
29029	67	0.04	25	< 10	< 1	< 1	0.496
29030	91	< 0.01	< 1	< 10	< 1	< 1	0.074
29031	27	0.05	22	< 10	1	2	0.217
29032	37	0.12	33	< 10	3	6	0.602
26543	7	0.12	6	< 10	13	14	0.190
26544	12	0.25	67	< 10	16	6	0.122
26545	19	0.21	136	< 10	9	3	0.046
26546	7	0.05	6	< 10	17	13	2.079
26523	11	0.18	34	< 10	26	10	0.151
26524	6	0.11	17	< 10	18	13	0.060
26525	2	0.03	13	< 10	12	11	0.324
26526	2	0.04	13	< 10	13	10	0.551
26527	2	0.05	9	< 10	20	9	0.076
26528	3	0.06	7	< 10	23	10	0.042
26529	1	0.08	42	< 10	17	14	5.304
26530	91	< 0.01	< 1	< 10	< 1	< 1	0.157
26531	2	0.03	33	< 10	14	12	1.907
26532	3	0.01	12	< 10	15	15	1.223

Activation Laboratories Ltd. Report: A08-4511

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	23.7	3.1	1080	781	14	34	998	635	0.29	357	287	<1	1340	0.78	7	8	24.4	0.02	0.13	0.07	0.039	97	<1	27
GXR-1 Cert	31.0	3.30	1110	952	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.1	0.7	6150	132	323	39	42	55	2.64	99	18	1	12	0.94	15	56	3.39	1.37	1.63	0.12	0.115	<10	6	<10
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	19.0	1.01	14.5	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	17.5	4.5	80	1010	<2	18	722	536	3.96	11	1340	1	<10	0.83	10	25	2.17	0.96	0.54	0.33	0.054	18	5	<10
GXR-2 Cert	17.0	4.10	76.0	1010	2.10	21.0	690	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.3	1.1	66	1050	<2	28	95	122	6.55	237	937	<1	<10	0.15	14	84	5.57	0.98	0.43	0.16	0.033	<10	21	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas			2680														5.79							
OREAS 13P Cert			2500														7.58							
30853 Ong	0.5	<0.5	92	61	<2	77	5	15	6.03	<10	73	<1	<10	4.60	10	281	1.21	0.27	0.88	0.75	0.019	<10	2	<10
30863 Dup	<0.2	<0.5	93	61	<2	80	5	14	5.65	<10	75	<1	<10	4.55	10	264	1.23	0.28	0.87	0.74	0.020	<10	2	<10
26662 Ong	0.3	1.4	620	489	3	22	10	320	2.67	<10	113	<1	<10	0.31	15	92	6.24	0.91	2.06	0.06	0.026	<10	4	<10
26662 Dup	0.3	1.7	625	483	3	21	9	327	2.91	<10	114	<1	<10	0.31	16	92	6.22	0.91	2.09	0.06	0.028	<10	4	<10
29012 Ong	<0.2	<0.5	119	163	<2	45	11	18	2.17	<10	12	<1	<10	1.94	11	86	1.30	0.02	0.84	0.31	0.014	<10	5	<10
29012 Dup	<0.2	<0.5	116	166	<2	43	11	18	2.20	<10	12	<1	<10	1.95	11	86	1.30	0.02	0.85	0.32	0.014	<10	5	<10
29025 Ong	1.9	0.8	1010	65	<2	266	10	37	7.21	<10	146	<1	<10	5.17	32	221	2.32	0.49	1.31	0.49	0.004	<10	2	<10
29025 Dup	1.8	1.0	1040	72	<2	269	11	37	7.34	<10	149	<1	<10	5.29	34	229	2.41	0.50	1.38	0.51	0.004	<10	2	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	5	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10
Method Blank Method Blank	<0.2	<0.5	<1	<2	<2	<1	<2	<1	<0.01	<10	6	<1	<10	<0.01	<1	<2	<0.01	<0.01	<0.01	<0.01	<0.001	<10	<1	<10

Quality Control

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	177		72	159	22	14	0.203
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	72		81	12	11	10	1.856
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	94		48	< 10	11	10	0.036
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	32		181	< 10	6	10	0.016
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
30853 Orig	78	0.04	31	< 10	2	1	0.064
30863 Dup	77	0.04	32	< 10	2	1	0.062
28662 Orig	10	0.14	32	< 10	8	12	0.637
28662 Dup	10	0.14	33	< 10	7	12	0.636
29012 Orig	27	0.05	33	< 10	2	< 1	0.082
29012 Dup	28	0.05	33	< 10	2	< 1	0.076
29026 Orig	75	0.06	29	< 10	< 1	< 1	0.577
29026 Dup	78	0.07	31	< 10	< 1	< 1	0.580
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							



Date Submitted: 28-Jul-08
Invoice No.: A08-4510
Invoice Date: 27-Aug-08
Your Reference: DOSSIER 22926

Expert Lab
127 boul Industriel
Rouyn-Noranda QC J9X 6P2
Canada

ATTN: Stephanie St-Pierre

CERTIFICATE OF ANALYSIS

80 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 1E1 Aqua Regia ICP(AQUAGEO)

REPORT **A08-4510**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is fluid and cursive, written over a horizontal dotted line.

Elitsa Hrischeva, Ph.D.
Quality Control

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Activation Laboratories Ltd. Report: A08-4510

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
30712	< 0.2	0.6	191	425	< 2	55	5	30	3.41	< 10	14	< 1	< 10	3.07	22	75	3.79	0.03	1.34	0.49	0.038	< 10	10	< 10
30713	< 0.2	0.7	201	518	< 2	71	6	32	3.33	< 10	12	< 1	< 10	3.06	34	102	6.03	0.03	1.75	0.37	0.037	< 10	11	< 10
30714	< 0.2	0.7	104	453	< 2	52	< 2	32	2.50	< 10	9	< 1	< 10	2.92	26	41	4.54	0.02	1.80	0.18	0.043	< 10	11	< 10
30715	0.6	1.1	436	160	< 2	25	3	51	2.84	< 10	109	< 1	< 10	0.72	10	82	2.80	0.35	1.46	0.24	0.011	< 10	4	< 10
30716	3.6	3.0	2540	350	2	114	6	77	3.42	< 10	61	< 1	< 10	1.85	28	85	5.65	0.31	1.38	0.21	0.031	< 10	6	< 10
30717	4.3	3.3	2450	280	< 2	217	6	76	4.38	< 10	27	< 1	< 10	2.12	34	126	5.82	0.31	2.07	0.15	0.022	< 10	6	< 10
30718	4.4	3.8	2480	308	2	69	2	73	3.07	< 10	98	< 1	< 10	0.22	14	105	4.01	0.35	2.42	0.08	0.010	< 10	6	< 10
30719	5.4	2.5	3530	417	2	213	5	68	3.34	< 10	27	< 1	< 10	0.48	36	98	7.13	0.033	3.48	0.06	0.023	< 10	8	< 10
30720	0.5	0.6	1400	357	< 2	1420	8	32	5.56	< 10	21	< 1	< 10	2.74	51	131	4.21	0.04	3.65	0.38	0.003	< 10	3	< 10
30721	3.7	1.1	3070	339	< 2	130	7	33	3.66	< 10	45	< 1	< 10	2.27	25	86	4.62	0.13	2.36	0.18	0.018	< 10	6	< 10
30698	0.3	0.7	818	211	< 2	433	< 2	33	3.07	< 10	41	< 1	< 10	1.47	39	111	3.30	0.15	3.53	0.16	0.009	< 10	3	< 10
30697	< 0.2	< 0.5	259	169	< 2	334	< 2	29	2.63	< 10	7	< 1	< 10	0.87	35	59	2.81	0.01	3.60	0.10	0.005	< 10	2	< 10
30698	< 0.2	< 0.5	366	184	< 2	188	< 2	19	5.70	< 10	51	< 1	< 10	4.34	22	84	2.33	0.19	2.19	0.90	0.023	< 10	3	< 10
30699	< 0.2	0.5	301	172	< 2	305	< 2	31	2.97	< 10	9	< 1	< 10	0.93	35	57	2.99	0.02	3.81	0.10	0.008	< 10	2	< 10
31000	0.9	2.6	8050	308	< 2	> 10000	8	90	0.48	< 10	4	< 1	< 10	0.39	487	31	32.0	0.11	0.17	0.08	0.046	< 10	4	< 10
29001	0.2	0.6	477	181	< 2	399	< 2	33	3.04	< 10	6	< 1	< 10	0.91	34	46	3.29	0.01	4.00	0.11	0.007	< 10	2	< 10
29002	0.7	0.7	1620	224	< 2	568	< 2	37	3.21	< 10	7	< 1	< 10	1.55	42	65	3.62	0.02	3.64	0.18	0.004	< 10	3	< 10
24563	0.8	0.7	286	451	< 2	636	4	55	4.02	< 10	7	< 1	< 10	1.99	61	296	4.72	0.02	4.49	0.09	0.007	< 10	3	< 10
24584	0.4	< 0.5	254	317	< 2	208	13	38	3.81	< 10	8	< 1	< 10	2.48	24	223	2.60	0.03	2.59	0.14	0.007	< 10	3	< 10
24585	0.3	< 0.5	314	356	< 2	174	20	33	4.34	< 10	14	< 1	< 10	3.60	22	266	2.52	0.04	1.83	0.29	0.010	< 10	5	< 10
24586	0.4	< 0.5	409	309	< 2	107	23	32	3.82	< 10	14	< 1	< 10	3.75	18	167	2.04	0.05	1.42	0.15	0.010	< 10	4	< 10
24587	2.3	1.3	1140	402	< 2	444	49	79	3.57	< 10	19	< 1	< 10	3.11	44	169	3.80	0.03	2.04	0.27	0.021	< 10	4	< 10
24588	9.4	3.6	3530	354	< 2	774	206	189	4.13	< 10	20	< 1	< 10	3.43	60	157	4.91	0.02	1.98	0.38	0.010	< 10	5	< 10
24589	10.3	4.2	4360	338	< 2	768	188	210	5.04	< 10	16	< 1	< 10	3.81	43	208	4.86	0.03	2.02	0.47	0.009	< 10	6	< 10
24590	0.2	< 0.5	63	163	< 2	14	8	13	0.09	< 10	136	< 1	< 10	6.91	< 1	31	0.13	< 0.01	4.90	0.04	0.002	< 10	< 1	< 10
24561	7.2	4.3	3340	346	< 2	801	262	227	4.71	< 10	10	< 1	< 10	3.59	59	177	4.77	0.03	1.95	0.37	0.009	< 10	5	< 10
24582	3.8	3.1	2140	834	< 2	818	59	222	3.79	< 10	10	< 1	< 10	1.98	47	288	7.35	0.03	4.40	0.09	0.008	< 10	3	< 10
30762	< 0.2	< 0.5	17	185	3	13	4	34	3.05	< 10	122	< 1	< 10	0.18	7	86	2.65	0.78	2.23	0.07	0.030	< 10	3	< 10
30763	< 0.2	0.6	16	335	< 2	41	5	44	4.00	< 10	166	< 1	< 10	0.82	11	118	3.67	0.85	2.88	0.11	0.032	< 10	10	< 10
30764	< 0.2	0.8	133	549	< 2	104	2	51	2.82	< 10	25	< 1	< 10	1.96	31	147	4.75	0.21	2.45	0.07	0.027	< 10	9	< 10
30765	< 0.2	< 0.5	6	242	< 2	20	3	29	3.25	< 10	233	< 1	< 10	0.66	9	121	2.90	0.72	1.64	0.14	0.026	< 10	6	< 10
30766	< 0.2	0.6	41	435	< 2	31	< 2	35	2.87	< 10	47	< 1	< 10	0.70	13	93	3.82	0.29	2.85	0.04	0.015	< 10	7	< 10
30767	< 0.2	< 0.5	7	294	< 2	17	< 2	21	2.45	< 10	44	< 1	< 10	0.69	5	96	2.33	0.27	1.82	0.06	0.012	< 10	2	< 10
30768	< 0.2	< 0.5	10	256	2	24	< 2	28	2.70	< 10	102	< 1	< 10	0.41	8	90	2.64	0.55	1.96	0.09	0.015	< 10	4	< 10
30769	< 0.2	0.6	13	115	< 2	11	< 2	35	3.50	< 10	165	< 1	< 10	0.40	9	101	3.90	0.83	2.27	0.10	0.020	< 10	5	< 10
30770	0.5	0.6	1300	344	< 2	1370	8	31	5.05	< 10	19	< 1	< 10	2.63	48	124	4.10	0.03	3.47	0.35	0.003	< 10	3	< 10
30771	< 0.2	0.7	22	438	2	16	< 2	38	3.80	< 10	108	1	< 10	0.63	10	83	4.29	0.86	2.64	0.10	0.037	< 10	6	< 10
30772	< 0.2	0.6	5	336	< 2	15	< 2	31	3.05	< 10	209	< 1	< 10	0.23	9	102	3.70	0.63	2.08	0.10	0.015	< 10	5	< 10
30773	< 0.2	0.9	70	386	< 2	16	3	48	4.00	< 10	303	< 1	< 10	0.31	22	68	5.77	0.96	2.69	0.10	0.051	< 10	9	< 10
30774	< 0.2	0.6	3	381	< 2	11	< 2	50	3.93	< 10	392	< 1	< 10	0.32	15	95	5.02	0.98	2.87	0.11	0.087	< 10	10	< 10
24525	0.2	0.6	226	369	< 2	35	7	38	3.35	< 10	16	< 1	< 10	3.30	19	69	3.03	0.03	1.18	0.33	0.046	< 10	9	< 10
24527	0.5	0.6	464	338	< 2	97	2	23	2.78	< 10	16	< 1	< 10	2.14	21	214	3.33	0.04	1.96	0.31	0.021	< 10	5	< 10
24528	< 0.2	1.0	216	534	< 2	238	< 2	37	5.03	< 10	23	< 1	< 10	3.48	27	538	5.12	0.29	2.35	0.44	0.006	< 10	5	< 10
24526	< 0.2	1.2	529	677	< 2	199	< 2	42	4.82	< 10	10	< 1	< 10	3.40	33	566	6.31	0.05	3.76	0.06	0.011	< 10	9	< 10
24530	< 0.2	< 0.5	9	284	< 2	7	5	15	0.14	< 10	75	< 1	< 10	12.7	1	96	0.21	0.02	8.24	0.03	0.007	< 10	< 1	< 10
24931	< 0.2	0.5	355	359	< 2	28	< 2	31	2.55	< 10	48	< 1	< 10	0.50	8	113	3.36	0.14	2.55	0.03	0.010	< 10	4	< 10
24932	< 0.2	0.6	173	250	3	17	< 2	21	2.15	< 10	92	< 1	< 10	0.21	7	116	2.72	0.30	2.03	0.03	0.012	< 10	2	< 10
24933	< 0.2	0.5	508	286	< 2	22	< 2	23	2.29	< 10	114	< 1	< 10	0.28	10	110	3.09	0.31	2.03	0.04	0.013	< 10	4	< 10
24934	0.4	0.6	1020	321	2	31	< 2	32	2.67	< 10	198	< 1	< 10	0.32	10	76	3.72	0.34	2.65	0.06	0.012	< 10	6	< 10
24935	0.5	< 0.5	339	514	< 2	51	< 2	27	2.42	< 10	174	< 1	< 10	0.74	14	144	3.04	0.18	2.21	0.09	0.009	< 10	5	< 10
30576	< 0.2	< 0.5	8	348	3	7	3	3	0.26	< 10	8	1	< 10	0.15	< 1	154	0.33	0.10	0.04	0.05	0.018	< 10	1	< 10
30677	< 0.2	< 0.5	4	349	< 2	6	3	5	0.24	< 10	9	< 1	< 10	0.12	< 1	139	0.26	0.11	0.03	0.05	0.020	< 10	<	

Activation Laboratories Ltd. Report: A08-4510

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Se	Sr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.001	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30978	< 0.2	< 0.5	2	520	3	6	3	7	0.27	< 10	7	< 1	< 10	0.11	< 1	140	0.29	0.11	0.02	0.05	0.016	< 10	< 1	< 10
30975	< 0.2	< 0.5	9	183	< 2	7	8	21	0.40	< 10	5	< 1	< 10	0.16	< 1	148	0.41	0.15	0.05	0.05	0.010	< 10	1	< 10
30980	< 0.2	< 0.5	2	154	< 2	2	4	11	0.02	< 10	92	< 1	< 10	8.48	< 1	33	0.08	0.01	4.78	0.03	0.003	< 10	< 1	< 10
30981	< 0.2	0.5	2	148	< 2	99	< 2	25	6.61	< 10	71	< 1	< 10	3.91	21	341	3.93	0.68	3.54	0.27	0.008	< 10	4	< 10
30982	< 0.2	< 0.5	196	73	< 2	70	< 2	9	6.00	< 10	29	< 1	< 10	4.26	12	268	1.27	0.29	1.21	0.57	0.003	< 10	2	< 10
30983	< 0.2	< 0.5	6	122	< 2	41	< 2	11	4.89	< 10	33	< 1	< 10	3.61	9	190	1.30	0.12	1.00	0.81	0.011	< 10	4	< 10
30984	< 0.2	< 0.5	54	157	< 2	55	< 2	12	4.48	< 10	14	< 1	< 10	3.78	11	146	1.46	0.02	1.00	0.61	0.014	< 10	5	< 10
30985	< 0.2	< 0.5	336	192	< 2	73	< 2	15	5.00	< 10	16	< 1	< 10	4.18	20	101	2.19	0.02	1.13	0.76	0.037	< 10	8	< 10
26955	< 0.2	8.8	122	905	< 2	52	11	549	5.55	< 10	448	< 1	< 10	1.90	24	91	5.40	1.75	2.98	0.45	0.069	< 10	12	13
26967	< 0.2	7.7	109	950	< 2	66	16	655	5.60	< 10	967	< 1	< 10	2.29	23	86	6.34	1.70	2.76	0.47	0.066	< 10	12	17
26988	< 0.2	9.3	117	742	< 2	50	13	553	4.68	< 10	840	< 1	< 10	1.85	24	87	8.43	1.55	2.95	0.40	0.088	< 10	11	16
26965	0.3	1.6	241	953	2	54	7	409	4.68	< 10	614	< 1	< 10	1.14	23	164	6.65	1.26	3.10	0.27	0.067	< 10	10	13
26970	0.5	0.9	1240	345	< 2	1360	7	30	5.06	< 10	20	< 1	< 10	2.67	49	125	3.88	0.03	3.43	0.35	0.003	< 10	3	< 10
26971	< 0.2	1.3	174	620	2	48	4	380	4.15	< 10	869	< 1	< 10	1.23	22	98	5.38	1.41	2.53	0.36	0.063	< 10	10	12
26972	3.5	13.7	3390	773	13	50	10	737	4.52	< 10	43	< 1	< 10	0.80	28	135	7.91	2.08	3.32	0.21	0.062	< 10	13	17
26973	< 0.2	1.9	190	676	11	46	5	553	4.17	< 10	948	< 1	< 10	0.93	22	99	6.29	1.94	2.80	0.39	0.057	< 10	13	13
26974	< 0.2	2.3	125	833	< 2	50	8	583	5.06	< 10	1020	< 1	< 10	2.26	22	117	5.65	1.52	2.21	0.52	0.055	< 10	12	< 10
26975	< 0.2	0.8	103	570	3	34	4	289	2.46	< 10	587	< 1	< 10	0.41	19	112	4.76	1.19	1.62	0.26	0.042	< 10	10	11
30921	9.2	6.5	4840	287	< 2	2210	98	279	3.20	< 10	17	< 1	< 10	2.52	127	235	9.26	0.22	1.44	0.46	0.007	< 10	8	< 10
30922	4.3	3.0	2340	291	< 2	1060	97	170	3.64	< 10	14	< 1	< 10	3.33	50	260	5.34	0.09	1.25	0.42	0.010	< 10	6	< 10
30923	5.0	6.7	2750	295	< 2	752	137	283	3.11	< 10	22	< 1	< 10	2.79	64	210	5.20	0.15	1.42	0.45	0.012	< 10	6	< 10
30924	7.4	6.4	4210	262	< 2	2530	96	340	1.87	< 10	10	< 1	< 10	1.31	138	203	11.5	0.39	1.68	0.22	0.010	< 10	5	< 10
30925	5.4	4.8	2500	308	< 2	1060	128	334	2.11	< 10	24	< 1	< 10	1.69	58	226	6.36	0.35	1.71	0.29	0.014	< 10	6	< 10
30926	6.8	5.2	3810	268	< 2	1310	168	378	3.41	< 10	16	< 1	< 10	1.85	52	284	8.30	0.74	2.16	0.45	0.012	< 10	6	< 10
30927	3.2	3.5	2120	290	< 2	1040	155	229	3.46	< 10	29	< 1	< 10	2.52	72	192	6.66	0.36	1.65	0.52	0.009	< 10	6	< 10
30928	4.7	4.6	4490	298	< 2	1280	109	185	3.62	< 10	23	< 1	< 10	3.23	88	186	7.20	0.12	1.20	0.40	0.022	< 10	5	< 10
30929	3.8	8.5	3280	293	< 2	806	225	331	4.28	< 10	25	2	< 10	3.11	56	252	5.12	0.35	2.28	0.36	0.008	< 10	4	< 10
30930	< 0.2	< 0.5	50	202	< 2	19	7	23	0.07	< 10	68	< 1	< 10	10.9	1	17	0.13	0.01	6.67	0.03	0.013	< 10	< 1	< 10

Analyte Symbol	Sr	Tl	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30712	55	0.14	86	< 10	7	2	0.209
30713	44	0.18	120	< 10	8	2	0.304
30714	18	0.15	131	< 10	8	3	0.409
30715	21	0.11	29	< 10	3	5	0.181
30716	32	0.17	101	< 10	11	4	1.162
30717	35	0.13	74	< 10	9	5	1.760
30718	10	0.06	30	< 10	5	6	0.711
30719	9	0.12	48	< 10	8	7	1.738
30720	69	0.03	43	< 10	< 1	2	0.448
30721	26	0.10	61	< 10	8	3	0.813
30698	15	0.05	23	< 10	1	1	0.197
30697	7	0.02	14	< 10	< 1	< 1	0.059
30698	151	0.07	26	< 10	2	< 1	0.092
30699	8	0.02	15	< 10	< 1	< 1	0.055
31000	15	0.12	58	< 10	16	18	9.294
29001	3	0.02	16	< 10	1	1	0.090
29002	14	0.03	25	< 10	< 1	1	0.291
24663	6	0.06	34	< 10	1	2	0.319
24664	38	0.03	25	< 10	< 1	1	0.082
24665	71	0.05	37	< 10	3	1	0.186
24666	45	0.07	37	< 10	2	1	0.191
24667	33	0.04	31	< 10	4	4	0.897
24668	45	0.04	33	< 10	2	3	1.809
24669	70	0.04	36	< 10	2	2	1.454
24660	98	< 0.01	< 1	< 10	< 1	< 1	0.081
24661	75	0.04	32	< 10	1	2	1.506
24662	11	0.05	38	< 10	1	2	1.098
30762	28	0.12	15	< 10	6	10	0.010
30763	21	0.18	80	< 10	7	8	0.013
30764	28	0.20	125	< 10	4	2	0.208
30765	25	0.14	23	< 10	7	14	0.008
30766	14	0.14	56	< 10	12	12	0.025
30767	13	0.08	4	< 10	15	18	0.010
30768	17	0.10	11	< 10	7	13	0.008
30769	24	0.12	4	< 10	5	12	0.033
30770	66	0.03	41	< 10	< 1	2	0.434
30771	45	0.13	27	< 10	10	9	0.054
30772	14	0.11	8	< 10	5	12	0.007
30773	17	0.16	66	< 10	5	7	0.091
30774	18	0.18	82	< 10	7	5	0.009
24925	52	0.22	93	< 10	9	2	0.181
24927	39	0.13	90	< 10	10	3	0.290
24928	59	0.08	66	< 10	3	2	0.227
24926	32	0.12	99	< 10	6	3	0.235
24930	141	< 0.01	3	< 10	1	1	0.088
24931	25	0.09	16	< 10	11	3	0.080
24932	5	0.09	9	< 10	12	3	0.080
24933	10	0.12	14	< 10	14	4	0.254
24934	19	0.10	19	< 10	13	4	0.279
24935	20	0.11	26	< 10	10	4	0.128
30676	1	< 0.01	< 1	< 10	6	12	0.004
30677	1	< 0.01	< 1	< 10	4	3	0.002

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
30676	1	< 0.01	< 1	< 10	5	4	0.001
30679	2	< 0.01	< 1	< 10	8	4	0.008
30680	73	< 0.01	< 1	< 10	< 1	< 1	0.061
30681	97	0.15	116	< 10	2	1	0.023
30682	84	0.05	24	< 10	< 1	< 1	0.061
30683	80	0.07	35	< 10	2	1	0.023
30684	64	0.05	35	< 10	2	1	0.074
30685	71	0.12	99	< 10	4	1	0.321
26666	38	0.25	149	< 10	7	7	0.209
26667	47	0.26	144	< 10	7	7	0.218
26668	29	0.28	144	< 10	7	8	0.165
26669	24	0.25	148	< 10	8	10	0.164
26670	65	0.03	40	< 10	< 1	1	0.408
26671	20	0.23	140	< 10	6	6	0.037
26672	13	0.30	142	< 10	6	6	0.548
26673	14	0.29	132	< 10	7	7	0.066
26674	39	0.28	123	< 10	9	7	0.071
26675	6	0.26	79	< 10	9	20	0.113
30621	48	0.08	50	< 10	1	4	4.145
30622	58	0.07	44	< 10	2	2	2.076
30623	47	0.07	53	< 10	2	2	1.946
30624	15	0.10	63	< 10	1	4	5.263
30625	20	0.11	66	< 10	2	3	2.302
30626	37	0.13	102	< 10	1	3	2.896
30627	48	0.10	90	< 10	2	3	2.237
30628	58	0.06	69	< 10	2	3	2.891
30629	48	0.07	40	< 10	2	2	1.341
30630	68	< 0.01	1	< 10	< 1	< 1	0.100

Activation Laboratories Ltd. Report: A08-4510

Quality Control

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	2	2	1	2	1	0.01	10	1	1	10	0.01	1	2	0.01	0.01	0.01	0.01	0.01	10	1	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	23.9	3.1	1110	759	14	36	998	811	0.27	366	184	<1	1340	0.78	8	6	23.8	0.02	0.12	0.06	0.034	87	<1	27
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	750	1.22	1380	0.960	8.20	12.0	23.6	0.0500	0.217	0.0520	0.0650	122	1.58	54.0
GXR-4 Meas	3.1	0.7	6400	128	321	39	41	55	2.64	98	25	1	15	0.90	15	56	3.36	1.32	1.61	0.12	0.117	<10	6	<10
GXR-4 Cert	4.00	0.860	6500	155	310	42.0	52.0	73.0	7.20	98.0	1640	1.60	16.0	1.01	14.6	54.0	3.09	4.01	1.66	0.664	0.120	4.80	7.70	5.60
GXR-2 Meas	16.3	4.2	78	950	<2	16	674	502	3.10	12	1270	<1	<10	0.76	9	23	2.00	4.09	0.49	0.31	0.052	25	4	<10
GXR-2 Cert	17.0	4.10	78.0	1010	2.10	21.0	890	530	16.5	25.0	2240	1.70	0.690	0.930	8.50	38.0	1.86	1.37	0.850	0.566	0.105	49.0	6.88	1.70
GXR-6 Meas	0.2	1.0	67	961	<2	23	88	112	6.29	224	813	<1	<10	0.14	13	76	6.07	0.80	0.37	0.16	0.030	<10	16	<10
GXR-6 Cert	1.30	1.00	60.0	1010	2.40	27.0	101	118	17.7	330	1300	1.40	0.290	0.180	13.8	90.0	5.58	1.87	0.606	0.104	0.0350	3.60	27.6	1.70
OREAS 13P Meas							2780										6.06							
OREAS 13P Cert							2500										7.58							
30558 Ong	< 0.2	< 0.5	355	193	< 2	193	< 2	20	5.82	< 10	52	< 1	< 10	4.44	23	87	2.42	0.19	2.27	0.31	0.023	< 10	4	< 10
30688 Dup	< 0.2	< 0.5	357	175	< 2	182	< 2	18	5.68	< 10	51	< 1	< 10	4.23	21	81	2.24	0.19	2.11	0.29	0.022	< 10	3	< 10
24662 Ong	3.9	3.0	2160	712	<2	847	63	236	3.65	<10	11	<1	<10	2.04	48	296	7.66	0.03	4.60	0.09	0.008	<10	3	<10
24862 Dup	3.7	3.1	2120	676	<2	789	56	218	3.83	<10	9	<1	<10	1.89	45	278	7.15	0.03	4.26	0.08	0.007	<10	3	<10
30774 Ong	< 0.2	0.8	3	378	< 2	11	< 2	49	3.81	< 10	285	< 1	< 10	0.32	15	94	4.94	0.96	2.62	0.11	0.085	< 10	10	< 10
30774 Dup	< 0.2	0.8	3	385	< 2	11	< 2	52	4.05	< 10	368	< 1	< 10	0.33	15	96	5.10	1.00	2.71	0.11	0.088	< 10	10	< 10
30876 Ong	< 0.2	< 0.5	9	188	< 2	7	8	21	0.40	< 10	5	< 1	< 10	0.15	< 1	152	0.41	0.15	0.05	0.05	0.011	< 10	1	< 10
30879 Dup	< 0.2	< 0.5	8	183	< 2	6	8	20	0.40	< 10	5	< 1	< 10	0.15	< 1	144	0.40	0.15	0.05	0.05	0.010	< 10	1	< 10
30927 Ong	3.3	3.5	2120	293	< 2	1050	155	229	3.52	< 10	29	< 1	< 10	2.54	73	194	6.89	0.38	1.88	0.53	0.009	< 10	8	< 10
30927 Dup	3.2	3.4	2120	286	< 2	1030	155	229	3.45	< 10	29	< 1	< 10	2.50	71	190	6.66	0.36	1.64	0.52	0.009	< 10	8	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10
Method Blank Method Blank	< 0.2	< 0.5	< 1	< 2	< 2	< 1	< 2	< 1	< 0.01	< 10	6	< 1	< 10	< 0.01	< 1	< 2	< 0.01	< 0.01	< 0.01	0.01	< 0.001	< 10	< 1	< 10

Quality Control

Analyte Symbol	Sr	Ti	V	W	Y	Zr	S
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	136		72	142	22	13	0.199
GXR-1 Cert	275		80.0	164	32.0	38.0	0.257
GXR-4 Meas	67		79	12	11	9	1.884
GXR-4 Cert	221		87.0	30.8	14.0	186	1.77
GXR-2 Meas	67		43	< 10	10	11	0.034
GXR-2 Cert	180		52.0	1.90	17.0	269	0.0313
GXR-6 Meas	25		165	< 10	5	11	0.015
GXR-6 Cert	35.0		186	1.90	14.0	110	0.0160
OREAS 13P Meas							
OREAS 13P Cert							
30558 Orig	153	0.07	27	< 10	2	< 1	0.093
30668 Dup	150	0.05	25	< 10	2	< 1	0.091
24662 Orig	11	0.05	37	< 10	2	2	1.123
24662 Dup	10	0.05	36	< 10	1	3	1.072
30774 Orig	18	0.18	80	< 10	7	6	0.009
30774 Dup	18	0.18	83	< 10	7	5	0.008
30979 Orig	2	< 0.01	< 1	< 10	8	4	0.008
30979 Dup	2	< 0.01	< 1	< 10	8	3	0.007
30927 Orig	48	0.10	91	< 10	2	3	2.245
30927 Dup	48	0.10	90	< 10	2	3	2.228
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							
Method Blank Method	< 1	< 0.01	< 1	< 10	< 1	< 1	< 0.001
Blank							

***** Certificate of analysis *****

Date : 2008/12/22

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Laboratoire Expert Inc.

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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23655 Your order number : Reassays Project : SV-HDN Total number of samples : 44
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23375	10	8	14	12	14	14
23376	11		12		13	
23377	50		18		21	
23378	69		32		71	
23379	15		30		37	
23380	----- I.S		----- I.S		----- I.S	
23381	18		11		20	
23382	31		15		46	
23383	53		37		53	
23384	116		204		532	
23385	50		144		189	
23965	202		34		51	
23966	121	118	61	60	123	118
23977	----- I.S		----- I.S		----- I.S	
28218	82		58		120	
28219	26		37		80	
28220	5		21		40	
28221	11		28		27	
28222	8		15		23	
28223	33		23		30	

I.S Insufficient sample



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23655 Your order number : Reassays Project : SV-HDN Total number of samples : 44
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28224	23		10		7	
28225	46		22		9	
27295	<5		<5		<5	
27296	<5		10		8	
27297	<5	<5	7	8	10	12
27318	5		9		14	
27319	21		43		85	
27320	----- I.S		----- I.S		----- I.S	
27321	118		20		38	
27322	35		87		64	
27323	114		71		142	
27324	29		64		93	
27325	48		41		96	
28911	<5		<5		<5	
24956	<5		13		12	
24957	<5		5		<5	
24958	6	6	17	20	18	16
24959	----- I.S		----- I.S		----- I.S	
24960	84		26		74	
24961	125		76		143	

I.S Insufficient sample

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23655 Your order number : Reassays Project : SV-HDN Total number of samples : 44
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24962	142		85		167	
24963	20		27		51	
24964	164		39		72	
24965	115		33		175	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21354 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23001	6	8	22	18	51	47
23002	<5		8		18	
23003	<5		9		<5	
23004	8		17		32	
23005	6		10		21	
23006	5		13		15	
23007	5		<5		11	
23008	53		17		36	
23009	30		22		46	
23010	<5		<5		<5	
23011	7		46		185	
23012	5		109		283	
23013	<5	5	72	85	234	251
23014	6		91		276	
23015	30		56		177	
23016	34		59		330	
23017	83		60		165	
23018	64		33		101	
23019	26		47		109	
23020	476	496	534	514	8000	7844



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21354 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23021	24		51		249	
23022	37		58		264	
23023	47		38		212	
23024	30		26		75	
23025	12	13	23	27	57	66
23026	45		21		74	
23027	41		25		77	
23028	134		14		64	
23029	106		31		72	
23030	<5		<5		<5	
23031	107		35		115	
23032	49		40		125	
23033	41		19		91	
23034	47		15		74	
23035	15		19		56	
23036	73		24		76	
23037	45	43	22	28	71	68
23038	30		30		93	
23039	30		29		83	
23040	464	472	484	496	7881	8092

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21354 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23041	29		43		79	
23042	23		26		140	
23043	16		15		62	
23044	10		135		95	
23045	11		115		177	
23046	24		64		162	
23047	9		81		137	
23048	8		38		91	
23049	708	729	120	130	665	675
23050	<5		<5		<5	
23051	83		62		165	
23052	64		52		149	
23053	41		68		132	
23054	39		59		128	
23055	21		30		49	
23056	27		22		36	
23057	36		20		37	
23058	58		78		174	
23059	228		72		294	
23060	478	492	506	504	8080	8192

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Laboratoire Expert Inc.

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Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23061	141	132	77	72	161	154
23062	116		76		151	
23063	91		32		79	
23064	419		42		112	
23065	229		86		207	
23066	60		70		183	
23067	392		66		114	
23068	32		20		66	
23069	84		22		38	
23070	<5		<5		<5	
23071	20		16		18	
23072	573		28		46	
23073	42	34	11	14	12	15
23074	21		13		9	
23075	62		26		65	
23076	23		25		70	
23077	32		31		81	
23078	8		17		14	
23079	55		23		42	
23080	466	468	508	498	8000	8036

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21354 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23081	127		28		128	
23082	240		49		117	
23083	136		190		82	
23084	85		23		20	
23085	21	17	13	10	8	7
23086	21		12		13	
23087	25		17		42	
23088	68		36		34	
23089	216		40		53	
23090	<5		<5		<5	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21355 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23091	288	289	55	53	80	77
23092	139		24		20	
23093	104		33		60	
23094	84		22		16	
23095	160		28		43	
23096	402		82		69	
23097	30		12		8	
23098	28		13		24	
23099	9		14		7	
23100	518	508	504	500	7960	7924
23101	19		22		117	
23102	7		12		8	
23103	81	85	25	19	30	30
23104	320		62		74	
23105	323		40		91	
23106	342		37		54	
23107	447		27		22	
23108	49		24		35	
23109	24		28		26	
23110	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 21355 Your order number : Project : SV-HDN Total number of samples : 90

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23111	21		70		196	
23112	26		22		34	
23113	8		20		9	
23114	55		19		36	
23115	11	8	17	12	10	9
23116	25		40		38	
23117	94		139		177	
23118	37		24		51	
23119	55		37		99	
23120	484	474	492	494	7818	7944
23121	18		59		284	
23122	43		111		120	
23123	106		86		86	
23124	12		24		31	
23125	13		40		38	
23126	91		115		121	
23127	8	5	36	27	43	40
23128	6		22		11	
23129	6		21		10	
23130	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21355 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23131	136		644		400	
23132	6		21		10	
23133	6		20		10	
23134	5		16		<5	
23135	<5		10		<5	
23136	264		120		984	
23137	300		128		880	
23138	112		780		324	
23139	203	193	27	20	26	22
23140	456	472	522	514	7900	8144
23141	248		100		476	
23142	40		112		130	
23143	11		25		18	
23144	8		24		8	
23145	6		18		6	
23146	36		44		55	
23147	29		48		71	
23148	6		<5		6	
23149	8		11		57	
23150	<5		<5		<5	

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Laboratoire Expert Inc.

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	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23151	<5	<5	<5	5	<5	<5
23152	<5		6		<5	
23153	12		8		32	
23154	54		30		84	
23155	70		50		370	
23156	46		170		116	
23157	<5		13		15	
23158	9		15		8	
23159	<5		<5		<5	
23160	470	460	508	488	8020	7844
23161	28		24		224	
23162	15		6		22	
23163	6	7	8	5	8	7
23164	295		55		783	
23165	18		10		30	
23166	<5		10		5	
23167	<5		<5		<5	
23168	15		12		13	
23169	6		6		<5	
23170	<5		<5		<5	

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Laboratoire Expert Inc.

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21355 Your order number : Project : SV-HDN Total number of samples : 90
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23171	<5		6		7	
23172	<5		7		5	
23173	<5		8		<5	
23174	<5		<5		<5	
23175	72	67	<5	<5	<5	<5
23176	<5		<5		<5	
23177	<5		<5		<5	
23178	<5		<5		<5	
23179	20		21		31	
23180	512	472	530	512	8060	7923

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21356 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23181	<5	5	<5	5	8	9
23182	<5		<5		<5	
23183	<5		<5		<5	
23184	<5		<5		<5	
23185	<5		<5		18	
23186	<5		9		23	
23187	<5		<5		11	
23188	6		<5		9	
23189	9		6		20	
23190	<5		<5		<5	
23191	<5		<5		9	
23192	14		6		16	
23193	<5	<5	<5	<5	12	16
23194	6		6		27	
23195	9		6		13	
23196	15		19		24	
23197	53		91		232	
23198	25		27		103	
23199	79		53		177	
23200	526	512	484	498	7880	7904



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 21356 Your order number : Project : SV-HDN Total number of samples : 80

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23201	80		79		299	
23202	150		65		286	
23203	211		320		361	
23204	81		47		208	
23205	395	382	111	127	395	394
23206	247		100		263	
23207	21		18		33	
23208	9		<5		16	
23209	63		52		117	
23210	<5		<5		<5	
23211	88		50		84	
23212	105		<5		9	
23213	22		11		35	
23214	14		8		31	
23215	26		<5		7	
23216	6		<5		8	
23217	45	38	<5	6	72	79
23218	52		11		49	
23219	64		28		196	
23220	518	494	488	516	7820	7904

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Laboratoire Expert Inc.

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21356 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23221	83		34		127	
23222	132		28		256	
23223	8		12		140	
23224	8		9		75	
23225	19		27		77	
23226	81		27		39	
23227	302		57		69	
23228	564		76		180	
23229	235	221	38	36	74	70
23230	<5		<5		<5	
23231	20		6		21	
23232	50		5		23	
23233	13		<5		6	
23234	6		<5		<5	
23235	<5		<5		<5	
23236	<5		6		15	
23237	10		16		81	
23238	6		<5		25	
23239	35		44		100	
23240	480	470	500	472	8020	7972

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 21356 Your order number : Project : SV-HDN Total number of samples : 80

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23241	<5	5	<5	<5	<5	<5
23242	7		8		34	
23243	8		<5		6	
23244	124		32		63	
23245	8		6		15	
23246	5		8		9	
23247	651		<5		<5	
23248	21		<5		<5	
23249	11		<5		<5	
23250	<5		<5		<5	
23251	122		<5		<5	
23252	14		<5		<5	
23253	352	369	142	150	263	268
23254	929	951	287	280	551	535
23255	176		34		59	
23256	109		13		8	
23257	38		<5		<5	
23258	<5		<5		7	
23259	<5		8		8	
23260	472	502	488	496	7980	8011

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Laboratoire Expert Inc.

127, Boulevard Industriel
Rouyn-Noranda, Québec
Canada, J9X 6P2
Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21471 Your order number : Project : SV-HDN Total number of samples : 83
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25501	96	103	83	77	279	296
25502	261		116		368	
25503	255		125		368	
25504	212		74		246	
25505	159		82		180	
25506	271		71		173	
25507	509		79		216	
25508	653		111		344	
25509	531		88		309	
25510	<5		<5		<5	
25511	344		63		212	
25512	243		62		182	
25513	63	58	68	67	184	190
25514	32		46		210	
25515	37		47		102	
25516	35		12		254	
25517	140		38		66	
25518	16		17		34	
25519	21		5		17	
25520	492	462	488	492	7892	7864



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21471 Your order number : Project : SV-HDN Total number of samples : 83
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25521	342		53		127	
25522	136		36		99	
25523	467		60		168	
25524	365		35		84	
25525	365	358	26	24	56	56
25526	61		8		19	
25527	45		17		261	
25528	16		<5		226	
25529	98		19		86	
25530	<5		<5		<5	
25531	<5		<5		12	
25532	<5		<5		10	
25533	<5		<5		14	
25534	6		<5		<5	
25535	40		14		21	
25536	129		59		171	
25537	35	32	<5	<5	10	8
25538	427		28		157	
25539	173		25		104	
25540	468	484	482	469	7864	7886

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 21471 Your order number : Project : SV-HDN Total number of samples : 83

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25541	138		50		106	
25542	109		<5		55	
25543	50		68		210	
25544	<5		<5		<5	
25545	<5		<5		<5	
25546	7		<5		<5	
25547	<5		<5		<5	
25548	<5		<5		<5	
25549	<5	<5	<5	<5	<5	<5
25550	<5		<5		<5	
25551	<5		11		8	
25552	<5		<5		<5	
25553	<5		<5		<5	
25554	<5		<5		6	
25555	<5		14		12	
25556	9		15		11	
25557	104		22		328	
25558	110		50		348	
25559	64		78		246	
25560	506	488	504	516	7913	7904

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21471 Your order number : Project : SV-HDN Total number of samples : 83
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25561	7	6	<5	<5	40	36
25562	19		<5		17	
25563	<5		<5		<5	
25564	20		5		32	
25565	<5		<5		7	
25566	12		<5		6	
25567	<5		<5		<5	
25568	<5		<5		<5	
25569	8		11		34	
25570	<5		<5		<5	
25571	6		<5		<5	
25572	7		10		10	
25573	<5	<5	<5	<5	5	<5
25574	<5		15		10	
25575	<5		10		9	
25576	<5		<5		<5	
25577	6		18		12	
25578	5		16		11	
25579	5		7		11	
25580	460	476	540	544	7988	7924

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21471 Your order number : Project : SV-HDN Total number of samples : 83
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25581	6		7		41	
25582	13		23		18	
25583	<5		10		10	

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 21472 Your order number : Project : SV-HDN Total number of samples : 91

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25694	15	16	51	57	12	15
25695	<5		<5		<5	
25696	<5		<5		<5	
25697	<5		<5		<5	
25698	<5		<5		<5	
25699	<5		<5		<5	
25700	480	469	486	472	8104	7980
25701	<5		<5		<5	
25702	<5		<5		<5	
25703	<5		<5		<5	
25704	14		8		42	
25705	16		24		30	
25706	22	27	108	114	96	102
25707	8		20		6	
25708	<5		<5		<5	
25709	12		18		6	
25710	<5		<5		<5	
25711	<5		<5		<5	
25712	<5		<5		<5	
25713	<5		<5		<5	



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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21472 Your order number : Project : SV-HDN Total number of samples : 91
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25714	<5		<5		<5	
25715	<5		<5		<5	
25716	<5		6		<5	
25717	<5		7		<5	
25718	<5	<5	<5	<5	<5	6
25719	<5		9		14	
25720	486	504	528	498	7904	7916
25721	<5		<5		25	
25722	<5		<5		21	
25723	<5		11		22	
25724	<5		<5		<5	
25725	<5		8		7	
25726	33		21		<5	
25727	13		39		26	
25728	<5		30		<5	
25729	<5		6		<5	
25730	<5	<5	<5	<5	<5	<5
25731	16		32		62	
25732	113		51		46	
25733	112		87		183	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21472 Your order number : Project : SV-HDN Total number of samples : 91
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25734	138		73		122	
25735	79		38		106	
25736	360		102		269	
25737	214		117		262	
25738	299		152		335	
25739	259		89		131	
25740	488	500	480	470	7936	7988
25741	810		64		245	
25742	193	196	28	32	155	147
25743	140		46		186	
25744	177		49		115	
25745	222		70		162	
25746	187		45		115	
25747	249		45		139	
25748	223		41		135	
25749	295		55		283	
25750	<5		<5		<5	
25751	72		42		256	
25752	117		36		112	
25753	245		25		111	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21472 Your order number : Project : SV-HDN Total number of samples : 91
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25754	135	141	27	33	129	125
25755	149		22		295	
25756	23		17		46	
25757	63		42		184	
25758	26		7		53	
25759	20		<5		15	
25760	462	470	480	490	7984	7972
25761	12		<5		44	
25762	50		52		234	
25763	95		34		186	
25764	190		29		212	
25765	42		11		39	
25766	18	20	58	64	30	26
25767	16		39		<5	
25768	8		36		7	
25769	36		55		40	
25770	<5		<5		<5	
25771	11		65		44	
25772	15		84		53	
25773	10		50		11	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21472 Your order number : Project : SV-HDN Total number of samples : 91
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25774	15		75		35	
25775	14		88		75	
25776	14		59		41	
25777	18		76		56	
25778	11	8	10	7	8	6
25779	12		69		70	
25780	456	472	498	476	8008	7952
25781	25		101		137	
25782	18		88		79	
25783	21		81		52	
25784	12		65		26	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21473 Your order number : Project : SV-HDN Total number of samples : 72
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23501	14	13	13	10	<5	<5
23502	81		38		<5	
23503	30		33		<5	
23504	11		30		<5	
23505	15		38		11	
23506	11		38		<5	
23507	7		29		<5	
23508	35		53		45	
23509	10		31		<5	
23510	456	476	476	492	7956	7952
23511	8		23		50	
23512	<5		26		<5	
23513	25	27	11	8	<5	<5
23514	11		23		<5	
23515	53		45		<5	
23516	6		35		<5	
23517	<5		<5		<5	
23518	<5		23		12	
23519	<5		30		<5	
23520	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21473 Your order number : Project : SV-HDN Total number of samples : 72
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23521	15		22		15	
23522	14		36		40	
23523	<5		36		<5	
23524	<5		27		<5	
23525	<5	<5	22	18	<5	<5
23526	17		10		13	
23527	13		6		7	
23528	12		<5		<5	
23529	11		24		25	
23530	468	488	498	492	7936	7910
23531	42		15		60	
23532	57		15		12	
23533	60		13		14	
23534	119		15		12	
23535	25		<5		<5	
23536	<5		<5		<5	
23537	22	29	31	36	67	74
23538	14		<5		<5	
23539	6		<5		<5	
23540	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21473 Your order number : Project : SV-HDN Total number of samples : 72
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23541	7		6		<5	
23542	<5		<5		<5	
23543	13		8		10	
23544	<5		6		<5	
23545	12		<5		<5	
23546	<5		<5		<5	
23547	<5		<5		<5	
23548	50		48		161	
23549	52	54	17	14	152	162
23550	502	494	484	502	8036	7956
23551	26		180		442	
23552	32		274		526	
23553	66		65		358	
23554	303		62		525	
23555	519		72		250	
23556	336		116		372	
23557	97		45		253	
23558	79		47		155	
23559	6		<5		<5	
23560	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21473 Your order number : Project : SV-HDN Total number of samples : 72
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23561	<5	<5	<5	<5	<5	<5
23562	40		<5		<5	
23563	<5		5		<5	
23564	<5		<5		<5	
23565	16		<5		<5	
23566	5		8		<5	
23567	9		10		<5	
23568	<5		5		<5	
23569	<5		<5		<5	
23570	512	489	528	504	7908	7956
23571	6		10		30	
23572	<5		7		<5	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21576 Your order number : Project : SV-HDN Total number of samples : 88
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23261	389	368	65	61	121	126
23262	201		17		51	
23263	100		14		27	
23264	262		26		66	
23265	174		25		49	
23266	23		9		20	
23267	84		8		11	
23268	24		<5		<5	
23269	24		6		6	
23270	<5		<5		<5	
23271	6		<5		<5	
23272	38		<5		11	
23273	68	71	12	13	13	14
23274	13		<5		87	
23275	<5		<5		12	
23276	14		<5		77	
23277	6		<5		65	
23278	7		<5		70	
23279	13		<5		24	
23280	464	456	484	496	7992	7944



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21576 Your order number : Project : SV-HDN Total number of samples : 88
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23281	27		<5		182	
23282	15		<5		72	
23283	29		<5		126	
23284	6		<5		22	
23285	58	50	18	14	210	208
23286	20		12		254	
23287	<5		<5		436	
23288	72		<5		312	
23289	9		<5		<5	
23290	<5		<5		<5	
23291	<5		<5		<5	
23292	<5		<5		<5	
23293	<5		<5		<5	
23294	<5		<5		8	
23295	16		<5		85	
23296	77		41		246	
23297	281	280	64	68	272	252
23298	100		<5		276	
23299	56		<5		288	
23300	482	480	484	520	7916	8068

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Laboratoire Expert Inc.

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21576 Your order number : Project : SV-HDN Total number of samples : 88
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23301	36		<5		360	
23302	8		<5		<5	
23303	<5		<5		<5	
23304	<5		<5		<5	
23305	<5		<5		<5	
23306	<5		<5		<5	
23307	<5		<5		<5	
23308	<5		<5		<5	
23309	27	24	10	8	106	110
23310	<5		<5		<5	
23311	<5		<5		<5	
23312	5		<5		<5	
23313	<5		<5		<5	
23314	<5		<5		9	
23315	<5		<5		<5	
23316	<5		<5		<5	
23317	<5		<5		<5	
23318	<5		<5		<5	
23319	<5		<5		<5	
23320	488	480	502	490	8184	8012

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Laboratoire Expert Inc.

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Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23321	<5	<5	<5	<5	<5	<5
23322	<5		<5		<5	
23323	<5		<5		<5	
23324	<5		<5		<5	
23325	<5		<5		<5	
23326	<5		<5		221	
23327	<5		45		532	
23328	<5		<5		11	
23329	<5		<5		<5	
23330	<5		<5		<5	
23331	<5		<5		<5	
23332	<5		<5		<5	
23333	<5	5	<5	<5	<5	<5
23336	<5		<5		<5	
23337	<5		<5		<5	
23338	<5		6		<5	
23339	<5		<5		<5	
23340	488	465	516	512	8120	7992
23341	6		<5		56	
23342	<5		<5		<5	

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23343	<5		<5		<5	
23344	<5		<5		<5	
23345	<5		<5		<5	
23346	<5		<5		<5	
23347	<5	<5	<5	<5	<5	<5
23348	<5		<5		<5	
23349	<5		<5		<5	
23350	<5		<5		<5	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21580 Your order number : Project : SV-HDN Total number of samples : 108
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23573	82	75	<5	<5	8	12
23574	<5		<5		<5	
23575	<5		<5		<5	
23576	<5		<5		<5	
23577	<5		<5		<5	
23578	<5		<5		<5	
23579	<5		<5		<5	
23580	<5		<5		<5	
23581	<5		7		<5	
23582	<5		8		<5	
23583	<5		6		<5	
23584	<5		24		15	
23585	<5	<5	7	6	<5	<5
23586	<5		<5		<5	
23587	<5		8		8	
23588	<5		<5		6	
23589	<5		<5		<5	
23590	468	456	508	492	8010	7976
23591	<5		23		59	
23592	<5		<5		<5	



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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23593	53		<5		<5	
23594	5		27		32	
23595	<5		8		10	
23596	8		27		11	
23597	<5	<5	27	22	6	9
23598	<5		<5		<5	
23599	<5		7		<5	
23600	<5		<5		<5	
23601	48		9		11	
23602	29		6		14	
23603	5		8		12	
23604	13		21		30	
23605	10		22		79	
23606	<5		<5		17	
23607	6		30		65	
23608	54		57		230	
23609	30	30	46	38	142	132
23610	482	468	480	500	7975	7992
23611	46		65		126	
23612	74		124		414	

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 21580 Your order number : Project : SV-HDN Total number of samples : 108

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23613	59		159		184	
23614	17		27		53	
23615	39		42		85	
23616	29		29		78	
23617	8		33		62	
23618	31		38		71	
23619	11		11		46	
23620	<5		<5		<5	
23621	13	16	19	22	31	32
23622	34		40		112	
23623	12		11		38	
23624	28		13		41	
23625	47		22		89	
23626	112		64		440	
23627	213		87		219	
23628	82		75		209	
23629	39		31		72	
23630	460	470	508	485	7990	8004
23631	151		47		145	
23632	115		9		103	

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23633	68	64	17	22	80	90
23634	70		21		91	
23635	68		46		78	
23636	44		21		64	
23637	16		11		52	
23638	17		9		39	
23639	42		<5		37	
23640	<5		<5		<5	
23641	70		10		42	
23642	92		27		47	
23643	17		8		32	
23644	18		17		42	
23645	6	6	75	75	202	185
23646	13		39		281	
23647	8		27		387	
23648	30		<5		35	
23649	15		13		97	
23650	472	468	488	478	7964	7958
23651	<5		255		178	
23652	12		190		341	

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23653	88		192		432	
23654	188		39		732	
23655	121		67		232	
23656	230		186		308	
23657	150	150	152	161	1430	1384
23658	170		252		696	
23659	56		25		241	
23660	<5		<5		<5	
23661	60		38		364	
23662	130		50		268	
23663	152		132		472	
23664	14		12		54	
23665	10		13		10	
23666	10		19		57	
23667	26		35		149	
23668	107		58		87	
23669	122	125	114	117	105	118
23670	462	481	488	494	7884	7924
23671	116		14		139	
23672	81		22		161	

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23673	<5		<5		9	
23674	<5		<5		<5	
23675	<5		6		6	
23676	14		<5		<5	
23677	<5		<5		<5	
23678	6		26		15	
23679	<5		<5		<5	
23680	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21581 Your order number : Project : SV-HDN Total number of samples : 110
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25584		<5	<5	<5	<5	11	9
25585		<5		<5		7	
25586		<5		<5		12	
25587		<5		<5		8	
25588		<5		<5		<5	
25589		<5		<5		6	
25590		<5		<5		<5	
25591		<5		<5		<5	
25592		<5		<5		<5	
25593		<5		<5		<5	
25594		<5		<5		6	
25595		<5		<5		<5	
25596		<5	<5	<5	<5	<5	<5
25597		<5		<5		6	
25598		<5		<5		8	
25599		<5		<5		<5	
25600		484	476	482	506	8040	8056
25601		<5		<5		<5	
25602		<5		14		111	
25603		<5		77		107	



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 21581
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 110

Designation	Au FA-GRAV g/g 0.03	Au LCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LCP-1 ppb 5
25604		<5		<5		149	
25605		<5		<5		118	
25606		21		<5		96	
25607		61		29		170	
25608		84	80	39	43	270	281
25609		35		6		90	
25610		<5		<5		<5	
25611		<5		<5		40	
25612		23		9		132	
25613		217		<5		58	
25614	1.58	1475		19		118	
25615	1.78	1711		22		118	
25616		502		57		142	
25617	1.99	1867		<5		114	
25618	1.58	1395		20		110	
25619	1.44	1351		25		134	
25620		482	472	484	472	7936	8088
25621	1.58	1452		<5		140	
25622	1.92	1882		<5		80	
25623		148		<5		40	

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Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 110

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
25624		<5		<5		51	
25625		<5		<5		20	
25626		<5		<5		<5	
25627		<5		<5		10	
25628		<5		<5		30	
25629		<5		<5		40	
25630		<5		<5		<5	
25631		67		<5		59	
25632		47	47	22	18	95	110
25633		<5		<5		91	
25634		<5		<5		20	
25635		<5		<5		70	
25636		<5		<5		<5	
25637		<5		<5		5	
25638		<5		<5		10	
25639		24		<5		16	
25640		480	468	502	516	7952	8048
25641		25		<5		58	
25642		570		102		370	
25643		92		<5		80	

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Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 110

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
25644		<5	<5	<5	<5	<5	<5
25645		190		20		175	
25646		317		37		135	
25647		52		<5		<5	
25648		129		<5		10	
25649		363		10		188	
25650		<5		<5		<5	
25651		145		<5		49	
25652		156		<5		19	
25653		79		<5		<5	
25654		<5		<5		<5	
25655		<5		<5		<5	
25656		130	138	<5	<5	60	68
25657		156		<5		15	
25658		90		104		300	
25659		105		<5		160	
25660		476	496	484	468	7992	7936
25661		19		<5		49	
25662		109		<5		12	
25663		318		<5		13	

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	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 110

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
25664		247		<5		16	
25665		172		<5		192	
25666		28		<5		9	
25667		<5		<5		<5	
25668		110	114	<5	<5	45	47
25669	2.88	2760		<5		474	
25670		<5		<5		<5	
25671		100		<5		104	
25672		<5		<5		<5	
25673		19		<5		<5	
25674		11		6		13	
25675		<5		<5		<5	
25676		<5		<5		<5	
25677		<5		<5		<5	
25678		<5		<5		<5	
25679		<5		<5		<5	
25680		480	470	482	480	8000	7942
25681		<5		<5		10	
25682		52		752		280	
25683		84		24		156	

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21581 Your order number : Project : SV-HDN Total number of samples : 110
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
25684		70		<5		170	
25685		<5		<5		<5	
25686		<5		<5		<5	
25687		<5		<5		<5	
25688		<5		<5		<5	
25689		<5		<5		<5	
25690		<5		<5		<5	
25691		<5		<5		<5	
25692		<5	<5	<5	<5	<5	<5
25693		<5		<5		<5	

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Client : Southampton Ventures Inc.	Original folder: 21580
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21790 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 9

Designation	Cu	Cu-Dup	Ni
	AAI-8 %	AAI-8 %	AAI-8 %
	0.010	0.010	0.010
23612	2.130	2.110	
23626	1.810		
23654			1.250
23655	1.810		
23656	3.950		
23657	2.100		
23658	1.370		
23662	7.350		
23663	2.940		



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Client : Southampton Ventures Inc.	Original folder: 21471
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21842 Your order number : Project : SV-HDN Total number of samples : 6
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu	Cu-Dup
	AA1-8 %	AA1-8 %
	0.010	0.010
25527	1.080	1.100
25528	1.210	
25557	3.570	
25558	3.530	
25559	2.570	
25563	2.340	



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Client : Southampton Ventures Inc.	Original folder: 21472
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21843 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 5

Designation	Cu	Cu-Dup
	AA1-8 %	AA1-8 %
	0.010	0.010
25732	3.310	3.370
25741	1.480	
25749	1.410	
25762	1.310	
25763	1.220	



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Client : Southampton Ventures Inc.	Original folder: 21576
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21874 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 7

Designation	Cu AA1-8 %	Cu-Dup AA1-8 %
	0.010	0.010
23285	1.640	1.670
23286	1.900	
23288	1.270	
23295	1.180	
23297	3.310	
23298	2.820	
23301	2.130	



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Client : Southampton Ventures Inc.	Original folder: 21581
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21875 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 4

Designation	Cu AA1-8 %	Zn AA1-8 %	Zn-Dup AA1-8 %
25648	0.010	5.500	5.450
25669	5.470		
25671	1.350		
25682	1.790		



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Client : Southampton Ventures Inc.	Dossier original: 21473
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21912 Your order number : Project : SV-HDN Total number of samples : 6
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu	Cu-Dup
	AA1-8 %	AA1-8 %
	0.010	0.010
23546	1.350	1.370
23553	1.120	
23554	1.720	
23555	1.450	
23556	3.260	
23557	2.550	



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Client : Southampton Ventures Inc.	Dossier original:21354
Adressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21929 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 1

Designation	Cu AA1-8 %	Cu-Dup AA1-8 %
23049	1.500	1.480



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Client : Southampton Ventures Inc.	Dossier original: 21355
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 21930 Your order number : Project : SV-HDN Total number of samples : 6
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu	Cu-Dup
	AA1-8 %	AA1-8 %
	0.010	0.010
23118	1.480	1.470
23136	3.890	
23137	3.770	
23138	2.150	
23141	1.200	
23154	1.780	



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22234 Your order number : Project : SV-HDN Total number of samples : 81
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25182	204	186	72	73	198	203
25183	149		29		118	
25184	226		31		106	
25185	119		35		84	
25186	111		32		75	
25187	69		26		60	
25188	354		16		31	
25189	114		28		66	
25190	426	493	511	517	7906	7937
25191	69		43		366	
25192	<5		<5		6	
28318	<5		<5		<5	
28319	<5	5	<5	<5	<5	<5
28320	458	469	510	502	7882	7912
28321	<5		9		75	
28322	<5		<5		<5	
28323	<5		6		<5	
28324	9		<5		13	
28325	<5		<5		<5	
28326	<5		<5		<5	



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22234 Your order number : Project : SV-HDN Total number of samples : 81
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28327	<5		15		28	
28328	30		26		19	
28329	137		41		120	
28330	<5		<5		<5	
28331	47	47	14	18	32	28
28332	8		<5		<5	
28333	28		25		16	
28334	205		28		104	
28335	74		17		47	
28336	57		14		41	
28337	99		33		89	
28338	84		21		70	
28339	89		27		62	
28340	464	490	544	521	7860	7885
28341	149		38		74	
28342	81		17		29	
28343	33	28	11	11	19	17
28344	679		24		68	
28345	546		35		67	
28346	346		45		68	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22234 Your order number : Project : SV-HDN Total number of samples : 81
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28347	77		59		75	
28348	80		986		366	
28349	26		17		19	
28350	56		102		142	
28351	8		10		7	
28352	<5		5		<5	
28353	7		<5		17	
28354	<5		<5		5	
28355	<5	<5	<5	<5	<5	<5
28356	144		19		69	
28357	176		42		326	
28358	130		20		660	
28359	78		26		620	
28360	<5		<5		<5	
28361	58		17		542	
28362	32		<5		27	
28363	6		<5		<5	
28364	18		<5		<5	
28365	10		<5		<5	
28366	8		<5		<5	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22234 Your order number : Project : SV-HDN Total number of samples : 81
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28367	6	<5	<5	5	<5	<5
25222	8		<5		<5	
25223	<5		<5		<5	
25224	9		<5		<5	
25225	<5		6		<5	
25226	<5		6		<5	
25227	<5		12		9	
25228	<5		13		11	
25229	<5		10		11	
25230	<5		<5		<5	
25231	<5		12		12	
28368	<5		<5		<5	
28369	<5	<5	6	5	<5	<5
28370	492	508	528	512	8010	8024
28371	<5		8		16	
28372	9		7		<5	
28373	<5		5		<5	
28374	<5		6		<5	
28375	<5		<5		<5	
28376	<5		<5		<5	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22234 Your order number : Project : SV-HDN Total number of samples : 81
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28377	<5		5		<5	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22235 Your order number : Project : SV-HDN Total number of samples : 82
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25951	58	62	10	8	9	12
25952	5		11		13	
25953	<5		7		8	
25954	<5		7		13	
25955	<5		8		<5	
25956	<5		10		21	
25957	10		9		5	
25958	<5		24		8	
25959	5		7		5	
25960	<5		<5		<5	
25961	8		<5		6	
25962	10		5		10	
25963	<5	5	<5	5	10	11
25964	<5		5		<5	
25965	<5		<5		<5	
25966	12		11		13	
25967	27		39		37	
25968	40		42		53	
25969	24		16		16	
28378	<5		7		<5	



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22235 Your order number : Project : SV-HDN Total number of samples : 82
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23441	<5		<5		<5	
23442	<5		<5		<5	
23443	<5		8		<5	
23444	<5		7		<5	
23445	<5	5	<5	<5	7	6
23446	7		8		16	
23447	<5		<5		6	
23448	<5		7		<5	
23449	<5		7		<5	
23450	48		96		138	
25970	500		492		7902	
25971	11		24		41	
25972	51		17		35	
25973	13		36		54	
25974	13		14		28	
25975	11		21		34	
25976	8	8	17	12	37	33
25977	7		10		25	
25978	10		12		24	
25979	14		16		24	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22235 Your order number : Project : SV-HDN Total number of samples : 82
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25980	<5		<5		<5	
25981	5		15		33	
23451	<5		<5		5	
23452	<5		6		8	
23453	7		7		13	
23454	<5		9		10	
23455	5		18		7	
23456	9		7		<5	
23457	6	8	12	10	13	14
23458	<5		18		10	
23459	5		<5		11	
23460	<5		<5		<5	
25982	5		14		18	
25983	9		16		25	
25984	9		10		22	
25985	7		9		18	
25986	<5		12		19	
25987	5		19		38	
25988	7		17		28	
25989	8		36		20	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22235 Your order number : Project : SV-HDN Total number of samples : 82
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25990	505	524	488	508	7834	7860
25991	15		24		12	
23461	8		10		25	
23462	12		15		39	
23463	14		8		16	
23464	24		11		27	
23465	11		6		9	
23466	17		10		16	
23467	175		31		62	
23468	69		13		21	
23469	205		298		55	
23470	486		516		8030	
25992	16	20	19	21	49	54
25993	28		22		31	
25994	17		15		26	
25995	6		18		43	
25996	5		15		46	
25997	<5		<5		<5	
25998	19		9		19	
25999	10		13		34	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22235 Your order number : Project : SV-HDN Total number of samples : 82

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26000	48		94		136	
25001	55		19		38	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22237 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24181	65	59	32	32	95	102
24182	48		26		47	
24183	21		24		41	
23951	<5		6		12	
23952	12		<5		13	
23953	<5		6		9	
23954	<5		<5		8	
23955	8		12		43	
23956	40		12		21	
23957	31		26		28	
23988	<5		<5		<5	
23989	<5		<5		<5	
23990	<5	<5	<5	<5	<5	<5
23991	<5		<5		<5	
23992	<5		<5		<5	
23993	14		<5		<5	
23994	<5		<5		<5	
25053	<5		<5		<5	
25054	<5		<5		<5	
25055	<5		<5		<5	



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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22237 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28228	<5		5		8	
28229	7		14		44	
28230	<5		<5		<5	
28231	<5		63		167	
28232	<5	<5	104	92	151	140
28233	<5		<5		12	
28234	<5		<5		10	
28235	<5		9		17	
28236	<5		10		41	
28237	<5		<5		<5	
28238	<5		9		20	
28239	<5		<5		<5	
28240	472	493	521	505	7884	7902
28241	<5		7		52	
28242	6		11		81	
28243	8		36		103	
28244	<5	<5	13	10	50	46
28245	<5		18		74	
28246	36		58		260	
28247	13		31		338	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22237 Your order number : Project : SV-HDN Total number of samples : 90

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28248	70		46		107	
28249	23		24		113	
28250	52		96		150	
28251	47		88		302	
28252	15		65		120	
28253	89		65		82	
28254	1036		177		389	
28255	1010		174		378	
28256	795	820	160	148	327	319
28257	62		19		38	
28258	38		11		24	
28259	107		30		61	
28260	<5		<5		<5	
28261	605		23		53	
28262	49		14		26	
28263	43		14		38	
28264	67		20		38	
28265	807		28		116	
28266	26		<5		12	
28267	55		14		81	

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Laboratoire Expert Inc.

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	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28268	<5	<5	<5	<5	<5	<5
28269	<5		<5		<5	
28270	504	486	482	503	7864	7892
28271	<5		<5		<5	
28272	52		<5		<5	
28273	34		<5		<5	
28274	113		12		20	
28275	102		14		36	
28276	45		17		31	
28277	59		24		44	
25087	14		33		89	
25088	35		20		38	
25089	18	15	11	13	24	22
25090	502	520	504	516	7884	7912
25091	15		11		67	
25092	52		26		57	
25093	13		7		17	
25094	34		32		67	
25095	15		22		41	
25096	56		11		16	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22237
	Your order number :
	Project : SV-HDN
	Total number of samples : 90

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25077	<5		<5		<5	
25078	58		<5		<5	
25079	263		8		51	
25080	<5		<5		<5	
25081	104	115	27	32	74	74
25082	21		5		17	
25083	209		35		93	
25084	220		19		45	
25085	<5		<5		<5	
25086	14		15		64	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22238 Your order number : Project : SV-HDN Total number of samples : 92
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25056		7	5	6	6	<5	<5
25057		<5		<5		<5	
25058		6		6		<5	
25059		<5		9		<5	
25060		<5		<5		<5	
25061		<5		12		10	
25062		<5		9		<5	
25063		<5		9		7	
25064		6		12		13	
25065		5		12		12	
25066		5		9		7	
25067		5		13		21	
25068		24	23	13	16	11	12
25069		7		10		6	
25070		480	487	486	492	7948	7960
25071		<5		12		6	
25072		<5		13		7	
25073		<5		11		6	
25074		15		13		<5	
25075		28		7		5	



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Laboratoire Expert Inc.

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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22238
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 92

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
25076		25		7		<5	
25097		233		37		64	
25098		51		21		23	
25099		339		43		85	
25100		61	64	110	108	136	142
25155		94		38		59	
25156		102		75		101	
25157		161		94		125	
25158		69		75		106	
25159		187		71		109	
25160		<5		<5		<5	
25161		123		76		128	
28278		111		25		34	
28279		31		11		7	
28280		<5		<5		<5	
28281		115		21		51	
28282		731	745	250	250	339	318
28283		296		97		49	
28284		256		31		70	
28285		30		29		78	

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22238
	Your order number : Project : SV-HDN
	Total number of samples : 92

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
28286		15		33		48	
28287		18		67		25	
25162		65		69		114	
25163		51		92		109	
25164		130		44		76	
25165		296		62		144	
25166		118		26		68	
25167		169		36		112	
25168		247	242	161	157	286	276
25169		227		52		139	
25170		482	493	508	517	8032	7993
25171		228		109		216	
28288		17		98		143	
28289		20		36		95	
28290		48		104		138	
28291		29		25		57	
28292		19		25		119	
28293		117		27		138	
28294		106		52		310	
28295		130		38		245	

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	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
28296		156	148	39	38	186	192
28297		12		8		10	
28298		25		52		58	
28299		29		53		238	
28300		62		96		136	
28301		98		27		331	
28302		226		30		370	
28303		50		148		331	
28304		103		115		149	
28305		241		8		9	
28306		8		13		<5	
28307		5		13		<5	
25172		162	173	52	50	109	112
25173		169		46		99	
25174		175		47		82	
25175	2.19	201.4		30		51	
25176		422		54		70	
25177		179		82		167	
25178		622		84		181	
25179		195		46		112	

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Laboratoire Expert Inc.

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22238 Your order number : Project : SV-HDN Total number of samples : 92
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
25180		<5		<5		<5	
25181		171		107		116	
28308		8		23		6	
28309		9		16		<5	
28310		<5	<5	<5	<5	<5	<5
28311		6		9		<5	
28312		10		11		<5	
28313		<5		<5		<5	
28314		<5		<5		<5	
28315		<5		<5		<5	
28316		<5		<5		<5	
28317		<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22242 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28424	33	28	8	6	44	41
28425	10		<5		<5	
28426	<5		<5		<5	
28427	31		5		111	
28428	8		<5		<5	
28429	<5		<5		<5	
28430	<5		<5		<5	
28431	8		<5		<5	
28432	5		<5		<5	
28433	5		<5		<5	
27076	<5		5		<5	
27077	<5		<5		<5	
27078	<5	<5	<5	<5	<5	<5
27079	5		5		<5	
27080	<5		<5		<5	
27081	<5		<5		<5	
27082	<5		<5		<5	
27083	<5		<5		<5	
27084	7		8		<5	
27085	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22242 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28434	<5		<5		<5	
28435	<5		<5		<5	
28436	<5		<5		<5	
28437	<5		<5		<5	
28438	<5	<5	<5	<5	<5	<5
28439	<5		7		<5	
28440	502	491	518	506	8036	7994
30036	11		49		128	
30037	10		20		23	
30038	19		8		5	
27086	18		<5		<5	
27087	14		<5		5	
27088	<5		<5		<5	
27089	<5		<5		<5	
27090	470	485	518	503	8031	8017
27091	6		9		28	
27092	<5	<5	<5	<5	<5	<5
27093	6		<5		<5	
27094	<5		<5		<5	
27096	<5		<5		<5	

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30039	31		12		20	
30040	484	503	512	518	7902	7933
30041	30		32		52	
30042	6		16		20	
30043	68		20		39	
30044	41		22		51	
30045	5		14		32	
30046	<5		34		82	
30047	12	16	41	43	85	90
30048	11		11		15	
30049	17		39		83	
30050	48		98		132	
30051	26		36		81	
30052	28		25		67	
30053	<5		16		31	
30054	18		31		49	
30055	<5		23		62	
30056	44		42		81	
30057	<5		75		118	
30058	31		86		121	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22242
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 90

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27106	<5	<5	<5	<5	<5	<5
27107	<5		<5		<5	
27108	<5		<5		<5	
27109	113		<5		9	
27110	<5		<5		<5	
27111	7		<5		<5	
27112	54		<5		<5	
27113	<5		<5		<5	
27114	69		6		<5	
27115	9		<5		<5	
30059	758		195		336	
30060	<5		<5		<5	
30061	115	109	42	40	48	52
30062	74		54		92	
30063	89		35		144	
30064	277		59		177	
30065	85		16		29	
30066	59		10		13	
30067	<5		<5		<5	
30068	<5		<5		<5	

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Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30069	<5		<5		<5	
30070	468	484	514	517	7878	7902
30071	81		33		77	
30072	96		35		508	
30073	76	80	82	86	461	474
30074	72		27		183	
30075	45		40		142	
30076	74		33		181	
30077	6		<5		11	
30078	<5		<5		<5	

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22243 Your order number : Project : SV-HDN Total number of samples : 92

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27126	51	55	11	14	30	34
27127	<5		15		44	
27128	25		12		58	
27129	<5		<5		<5	
27130	<5		<5		<5	
27131	<5		18		90	
27132	<5		9		15	
27133	26		12		74	
27134	55		12		62	
27135	52		28		226	
30079	15		<5		<5	
30080	<5		<5		<5	
30081	10	9	<5	<5	<5	<5
30082	7		<5		<5	
30083	<5		<5		<5	
30084	<5		<5		<5	
30085	<5		<5		<5	
30086	<5		<5		<5	
30087	<5		21		<5	
30088	<5		34		<5	



Joe Landers, Manager

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30089	<5		<5		<5	
30090	493	507	512	501	8029	8060
30091	<5		<5		<5	
30092	<5		<5		<5	
30093	<5	<5	<5	<5	<5	<5
30094	18		<5		<5	
30095	66		<5		<5	
30096	195		45		143	
30097	102		29		42	
30098	170		88		136	
27147	14		6		52	
27150	64		108		132	
28476	<5		<5		<5	
28477	<5		<5		<5	
28478	<5		<5		<5	
28479	<5		<5		<5	
28480	<5	<5	<5	<5	<5	<5
28481	<5		<5		<5	
28482	<5		<5		<5	
28483	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22243 Your order number : Project : SV-HDN Total number of samples : 92

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24184	91		28		505	
24185	66		42		660	
24186	76		44		542	
24187	38		36		572	
24188	119		23		290	
24189	146		119		255	
24190	<5		<5		<5	
24191	65		37		253	
24192	70	73	161	171	507	521
24193	75		23		331	
24143	44		25		46	
24144	63		28		62	
24145	53		27		60	
24146	81		16		35	
24147	244		24		65	
24148	66		8		21	
24149	34		7		27	
24150	64		113		138	
24201	216		28		364	
24202	78		34		94	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22243 Your order number : Project : SV-HDN Total number of samples : 92
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24213	<5	<5	<5	<5	<5	<5
27095	<5		<5		<5	
27097	<5		<5		<5	
27098	<5		6		<5	
27099	6		11		11	
27100	60		104		147	
27101	18		16		17	
27102	36		11		11	
27103	<5		5		<5	
27104	12		7		6	
27105	13		7		7	
27116	103		14		15	
27117	10	8	18	13	20	19
27118	5		20		27	
27119	6		28		70	
27120	486	492	520	513	8100	8063
27121	52		39		83	
27122	6		12		6	
27123	19		45		116	
27124	56		29		71	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22243 Your order number : Project : SV-HDN Total number of samples : 92
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27125	137		33		68	
27136	142		28		218	
27137	83		21		59	
27138	30		21		27	
27139	36	31	43	39	80	76
27140	484	497	516	507	7960	8003
27141	10		14		10	
27142	52		14		138	
27143	171		15		264	
27144	5		<5		5	
27145	<5		<5		<5	
27146	12		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22285 Your order number : 1847 Project : SV-HDN Total number of samples : 71

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25901	512	497	55	62	196	187
25902	59		50		247	
25903	57		39		226	
25904	44		34		304	
25905	40		27		154	
25906	33		23		87	
25907	17		39		134	
25908	35		25		92	
25909	22		15		82	
25910	<5		<5		<5	
25911	71		10		130	
25912	87		6		50	
25913	176	168	43	38	68	62
25914	129		22		44	
25915	24		33		38	
25916	39		<5		16	
25917	37		11		50	
25918	<5		<5		<5	
25919	<5		<5		<5	
25920	496	486	484	493	7926	7896



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22285 Your order number : 1847 Project : SV-HDN Total number of samples : 71
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25381	12		16		101	
25382	26		128		81	
25383	<5		<5		6	
25384	<5		<5		14	
25385	<5	<5	7	5	31	23
25386	21		18		64	
25387	23		15		74	
25388	<5		<5		11	
25389	<5		8		<5	
25390	497	479	515	502	7945	7963
28449	7		13		118	
28450	49		104		152	
28451	<5		14		7	
28452	<5		6		<5	
28453	<5		16		41	
28454	<5		9		<5	
28455	<5	<5	12	8	6	9
28456	<5		8		<5	
28457	8		15		40	
28458	<5		8		20	

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Laboratoire Expert Inc.

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22285 Your order number : 1847 Project : SV-HDN Total number of samples : 71
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25468	148		27		79	
25469	52		95		41	
25470	475	483	506	515	7994	7938
25471	101		93		118	
25472	154		54		181	
25473	136		106		101	
25474	35		265		118	
25475	38		28		46	
25476	51	54	10	14	32	30
25477	359		341		446	
25411	200		78		159	
25412	246		68		222	
25413	146		68		176	
25414	188		25		49	
25415	78		86		70	
25416	14		26		13	
25417	213		59		93	
25418	222		42		49	
25419	286		67		90	
25420	507	489	518	500	8120	7996

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22285 Your order number : 1847 Project : SV-HDN Total number of samples : 71
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25792	100	96	35	38	122	116
25793	7		23		9	
25794	<5		9		<5	
25795	<5		16		11	
25796	<5		27		7	
25797	<5		25		21	
25798	<5		9		11	
25799	<5		12		<5	
25800	56		102		136	
25788	<5		13		<5	
25789	<5		11		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22286 Your order number : 1847 Project : SV-HDN Total number of samples : 63
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25391	43	39	25	20	45	45
25392	86		48		96	
25393	81		40		79	
25394	23		31		37	
25395	13		13		28	
25396	8		18		14	
25397	8		19		17	
25398	27		23		39	
25399	45		35		63	
25400	48		109		133	
25421	225		92		197	
25422	130		21		85	
25423	84	78	41	44	96	97
25424	49		110		122	
25425	80		56		419	
25426	106		31		95	
25427	85		98		189	
25428	11		13		18	
25429	9		12		16	
25430	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22286 Your order number : 1847 Project : SV-HDN Total number of samples : 63
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25441	10		25		17	
25442	19		<5		6	
25443	<5		<5		<5	
25444	<5		<5		<5	
25445	<5	<5	<5	<5	<5	<5
25446	<5		<5		<5	
25447	<5		<5		<5	
27162	<5		<5		<5	
27163	<5		<5		<5	
27164	<5		<5		<5	
27165	<5		<5		<5	
27166	39		<5		<5	
27167	<5		<5		<5	
27168	13		<5		<5	
27169	<5		<5		10	
27170	497	503	507	512	8026	7993
27171	<5	<5	<5	<5	10	8
25458	15		<5		<5	
25459	58		<5		<5	
25460	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22286 Your order number : 1847 Project : SV-HDN Total number of samples : 63
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25461	159		<5		30	
25462	56		12		38	
25463	51		14		59	
25464	49		8		42	
25465	44		8		52	
25466	30		9		13	
25467	208		85		122	
26011	26		7		13	
26012	70	73	10	14	21	18
26013	<5		<5		<5	
25498	<5		<5		<5	
25499	<5		<5		<5	
25500	47		97		135	
28442	61		10		19	
28443	25		<5		10	
28444	129		<5		38	
28445	643		<5		12	
28446	21		6		<5	
28447	33		<5		<5	
28448	<5		9		<5	

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Laboratoire Expert Inc.

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Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28459	133	127	25	27	52	57
28460	<5		<5		<5	
28461	32		30		70	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22287 Your order number : 1847 Project : SV-HDN Total number of samples : 50
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
27212		377	368	39	45	68	67
27213		303		88		437	
27214		174		55		268	
27215		443		39		134	
27216		26		19		10	
27217		11		13		12	
27218		<5		6		<5	
27219		9		15		5	
27220		509	517	521	512	7880	7913
27221		91		12		6	
27232		<5		<5		<5	
27233		<5		<5		<5	
27234		<5	<5	10	8	<5	<5
27235		<5		6		<5	
27236		<5		<5		<5	
27237		<5		13		<5	
27238		<5		8		<5	
25368		31		14		13	
25369		<5		17		29	
25370		482	492	495	501	7864	7881



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22287 Your order number : 1847 Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 50

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
25478		193		40		81	
25479		186		26		207	
25480		<5		<5		<5	
25481		46		<5		80	
25482		133	144	111	118	219	229
25483		407		47		67	
25484	8.64	8656		58		76	
25485		384		38		37	
25486		36		17		<5	
25487		<5		17		41	
25448		7		16		38	
25449		8		12		<5	
25450		43		101		13	
25451		<5		<5		<5	
25452		<5		6		<5	
25453		81		13		33	
25454		135	136	18	22	43	46
25455		477		107		184	
25456		148		52		89	
25457		34		22		17	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22287 Your order number : 1847 Project : SV-HDN Total number of samples : 50
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
28462		33		39		83	
28463		8		35		55	
28464		7		25		51	
28465		17		33		90	
28441		<5		10		30	
25785		50		11		<5	
25786		<5		6		42	
25787		54		120		448	
25790		<5	<5	<5	<5	<5	<5
25791		28		<5		<5	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22288 Your order number : 1847 Project : SV-HDN Total number of samples : 82
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27152	<5	<5	5	<5	<5	<5
27153	<5		<5		<5	
27154	<5		<5		<5	
27155	<5		<5		<5	
27156	<5		<5		<5	
27157	<5		<5		<5	
27158	<5		<5		<5	
27159	<5		<5		<5	
27160	<5		<5		<5	
27161	<5		<5		<5	
25401	18		15		38	
25402	58		42		114	
25403	241	228	69	74	243	254
25404	156		83		237	
25405	108		68		147	
25406	179		30		106	
25407	286		55		204	
25408	249		43		120	
25409	234		72		248	
25410	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22288 Your order number : 1847 Project : SV-HDN Total number of samples : 82
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28468	65		57		276	
28469	48		11		24	
28470	489	502	501	511	7987	8080
28471	19		<5		13	
28472	30	32	<5	<5	<5	<5
28473	90		<5		10	
28474	113		<5		<5	
28475	71		<5		<5	
28466	857		6		102	
28467	54		<5		35	
25851	33		9		24	
25852	30		15		29	
25853	42		21		65	
25854	36		13		29	
25855	22		7		19	
25856	87		24		64	
25857	106	107	62	70	162	170
25858	20		13		14	
25859	26		9		31	
25860	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22288 Your order number : 1847 Project : SV-HDN Total number of samples : 82
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25861	50		9		27	
25862	45		16		54	
25863	35		13		44	
25864	108		28		91	
25865	40		20		83	
25866	112		25		106	
25867	48		27		116	
25868	38		15		31	
25869	89	94	11	10	44	38
25870	481	494	525	513	8008	7963
25488	7		<5		7	
25489	<5		<5		8	
25490	469	473	542	521	7972	7953
25491	7		6		28	
25492	<5		<5		<5	
25493	<5		5		10	
25494	<5		6		<5	
25495	<5		5		<5	
25496	<5		<5		<5	
25497	<5		<5		6	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22288 Your order number : 1847 Project : SV-HDN Total number of samples : 82
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25891	15	17	14	18	34	33
25892	60		31		90	
25893	263		74		242	
25894	240		127		377	
25895	245		78		346	
25896	173		51		160	
25897	187		65		167	
25898	371		64		216	
25899	40		69		190	
25900	53		96		140	
25931	8		12		7	
25932	<5		8		<5	
25933	26	20	<5	<5	<5	<5
25934	34		14		9	
25935	25		6		<5	
25936	17		<5		<5	
25937	14		12		<5	
25938	13		10		<5	
25939	14		<5		<5	
25940	495	478	529	518	7892	7962

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22288 Your order number : 1847 Project : SV-HDN Total number of samples : 82

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25941	6		10		<5	
25942	<5		9		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22289 Your order number : 1847 Project : SV-HDN Total number of samples : 80

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26001	<5	<5	6	7	<5	<5
26002	<5		<5		<5	
26003	<5		<5		<5	
26004	16		10		<5	
26005	<5		<5		<5	
26006	<5		<5		<5	
26007	<5		12		38	
26008	8		12		19	
26009	10		10		28	
26010	<5		<5		<5	
27192	48		41		86	
27193	48		40		111	
27194	56	49	35	40	50	48
27195	197		52		68	
27196	44		61		113	
27197	31		54		86	
27198	50		37		73	
27199	30		66		104	
27200	54		99		134	
27201	33		28		68	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22289 Your order number : 1847 Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27202	74		49		95	
27203	76		105		84	
27204	178		44		112	
27205	511		154		301	
27206	479	464	74	68	189	174
27207	217		49		70	
27208	67		17		17	
27209	143		33		149	
27210	<5		<5		<5	
27211	137		60		217	
27182	15		19		25	
27183	26		17		12	
27184	59		18		14	
27185	26		39		62	
27186	9		27		12	
27187	51		43		86	
27188	224	212	54	54	91	101
27189	282		143		239	
27190	473	484	483	497	7936	7961
27191	120		157		139	

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22289
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number : 1847
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 80

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27222	11		9		7	
27223	<5		<5		<5	
27224	<5		<5		<5	
27225	8		17		8	
27226	<5		8		<5	
27227	<5		<5		<5	
27228	<5		<5		<5	
27229	<5		<5		<5	
27230	<5	<5	<5	<5	<5	<5
27231	<5		<5		<5	
27172	8		12		7	
27173	<5		13		6	
27174	<5		<5		<5	
27175	5		<5		<5	
27176	8		<5		<5	
27177	16		15		16	
27178	5		14		25	
27179	5		25		61	
27180	<5		<5		<5	
27181	<5		20		31	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22289 Your order number : 1847 Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25841	10	12	20	19	23	27
25842	15		13		11	
25843	24		21		15	
25844	57		15		9	
25845	33		16		25	
25846	40		26		50	
25847	24		14		24	
25848	37		14		22	
25849	28		15		29	
25850	46		99		132	
24194	46		53		172	
24195	45		31		225	
24196	48	54	20	26	199	206
24197	63		70		334	
24198	172		48		582	
24199	125		31		248	
24200	509	515	489	496	7944	8002
27148	10		18		48	
27149	10		13		20	
27151	7		12		7	

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Laboratoire Expert Inc.

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Rouyn-Noranda, Québec
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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22290
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number : 1847
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 90

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25881	111	105	57	63	117	122
25882	205		45		98	
25883	125		90		43	
25884	110		36		89	
25885	133		55		136	
25886	122		70		172	
25887	71		32		68	
25888	104		38		86	
25889	96		36		67	
25890	<5		<5		<5	
25801	26		30		83	
25802	79		21		32	
25803	25	22	16	20	42	47
25804	22		24		71	
25805	18		15		40	
25806	9		10		17	
25807	10		6		23	
25808	14		13		32	
25809	8		20		17	
25810	476	485	485	493	7912	7942



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22290 Your order number : 1847 Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25371	7		14		25	
25372	11		<5		8	
25373	13		5		7	
25374	28		9		17	
25375	<5	<5	10	8	<5	<5
25376	11		16		8	
25377	22		11		15	
25378	12		13		7	
25379	8		13		10	
25380	<5		<5		<5	
25921	<5		<5		<5	
25922	<5		<5		<5	
25923	16		<5		<5	
25924	11		9		<5	
25925	<5		<5		<5	
25926	<5		<5		<5	
25927	11	13	15	16	97	89
25928	<5		99		7	
25929	<5		<5		<5	
25930	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22290 Your order number : 1847 Project : SV-HDN Total number of samples : 90

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25871	48		19		28	
25872	31		17		53	
25873	70		33		124	
25874	45		17		39	
25875	72		52		103	
25876	53		29		83	
25877	115		32		90	
25878	77		51		123	
25879	65	66	65	73	272	286
25880	<5		<5		<5	
25811	<5		<5		<5	
25812	<5		6		<5	
25813	7		9		<5	
25814	16		10		7	
25815	26		21		17	
25816	47		18		39	
25817	63		14		<5	
25818	12		13		6	
25819	6		15		<5	
25820	478	487	491	504	7988	8014

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100, Fax : (819) 762-7510

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22290 Your order number : 1847 Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25821	15	20	17	16	26	21
25822	6		7		<5	
25823	28		12		<5	
25824	25		<5		<5	
25825	9		7		7	
25826	18		9		<5	
25827	181		13		10	
25828	18		10		7	
25829	95		26		25	
25830	<5		<5		<5	
25831	91		26		25	
25832	186		38		56	
25833	126	134	58	63	125	128
25834	18		34		48	
25835	28		38		69	
25836	74		21		38	
25837	154		28		48	
25838	128		25		58	
25839	81		26		51	
25840	505	512	533	518	7888	7937

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22290 Your order number : 1847 Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25431	14		10		12	
25432	10		12		22	
25433	16		10		<5	
25434	<5		<5		<5	
25435	<5	<5	<5	<5	<5	<5
25436	<5		<5		<5	
25437	<5		<5		<5	
25438	<5		<5		<5	
25439	<5		<5		<5	
25440	494	501	504	509	8044	7986

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22292 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
25012		324	308	34	27	68	74
25013		164		47		46	
25014		109		30		55	
25015		67		28		43	
25016		173		41		74	
25017		227		52		138	
25018		67		28		33	
25019		23		38		67	
25020		504	514	523	518	7890	7927
25021		29		28		70	
25002		61		33		53	
25003		33		44		59	
25004		204	212	78	75	268	259
25005		531		609		679	
25006		783		104		188	
25007		80		113		103	
25008		597		94		185	
25009		745		112		235	
25010		<5		<5		<5	
25011		523		94		223	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22292 Your order number : Project : SV-HDN Total number of samples : 90
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
23471		137		19		56	
23472		87		23		86	
23473		112		58		265	
23474		36		53		59	
23475		135	128	66	58	129	123
23476		293		62		181	
23477		238		184		574	
23478		182		66		334	
23479		77		97		235	
23480		<5		<5		<5	
25022		23		22		140	
25023		57		42		147	
25024		34		93		403	
25025		5		30		52	
25026		<5		73		803	
25027		46		13		21	
25028		64	58	<5	5	16	20
25029		15		<5		<5	
25030		<5		<5		<5	
25031		<5		9		<5	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22292
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 90

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
23481		121		41		103	
23482	1.17	1185		39		143	
23483		82		25		72	
23484		10		19		16	
23485		<5		20		12	
23486		8		13		10	
23487		<5		18		13	
23488		<5		21		10	
23489		6	8	15	14	16	14
23490		495	503	508	498	7992	7954
25032		6		20		41	
25033		<5		19		32	
25034		<5		11		6	
25035		<5		11		7	
25036		<5		<5		<5	
25037		6		17		29	
25038		12		34		92	
25039		21		33		81	
25040		484	493	498	510	8024	7981
25041		10		47		66	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22292 Your order number : Project : SV-HDN Total number of samples : 90
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
23491		<5	<5	27	23	22	18
23492		<5		25		16	
23493		8		31		34	
23494		214		72		117	
23495		157		42		124	
23496		57		344		397	
23497		146		54		180	
23498		84		12		30	
23499		140		32		33	
23500		46		102		134	
25042		9		16		15	
25043		10		22		6	
25044		20	25	13	9	<5	5
25045		36		12		9	
25046		11		11		8	
25047		7		36		59	
25048		44		25		27	
25049		99		36		49	
25050		57		112		160	
25051		45		35		35	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22292 Your order number : Project : SV-HDN Total number of samples : 90
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
25101		30		21		40	
25102		29		22		28	
25103		38		24		7	
25104		55		18		<5	
25105		<5	<5	<5	<5	<5	<5
25106		<5		<5		<5	
25107		<5		<5		<5	
25108		<5		<5		<5	
25109		9		10		8	
25052		17		11		19	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22293 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30001	213	196	19	25	68	62
30002	100		108		116	
30003	39		15		16	
30004	241		75		182	
30005	265		33		197	
30006	154		7		21	
30007	140		35		68	
30008	186		101		401	
30009	64		14		27	
30010	<5		<5		<5	
30011	166		27		36	
30012	547		52		60	
30013	280	268	30	24	310	293
30014	335		73		14	
30015	319		82		469	
30016	501		278		483	
30017	558		160		206	
30018	413		54		173	
30019	614		89		145	
30020	507	493	482	495	7948	7984



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22293 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25110	<5		<5		<5	
25111	37		8		<5	
25112	<5		<5		<5	
25113	<5		<5		<5	
25114	<5	<5	<5	<5	<5	<5
25115	485		48		78	
25116	51		19		23	
25117	71		13		16	
25118	9		6		6	
25119	6		14		5	
30021	592		61		118	
30022	791		110		347	
30023	432		58		252	
30024	623		87		148	
30025	68		17		22	
30026	23		5		10	
30027	9	6	7	6	<5	<5
30028	5		10		<5	
30029	7		11		5	
30030	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22293 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25120	462	475	499	509	8088	8041
25121	9		10		<5	
25122	7		8		<5	
25123	6		7		<5	
25124	6		<5		<5	
25125	17		<5		<5	
25126	14		11		12	
25127	9		<5		7	
25128	15	12	<5	<5	<5	<5
25129	8		<5		<5	
25130	<5		<5		<5	
25131	24		11		7	
25132	11		12		6	
25133	9		14		7	
25134	10		12		5	
25135	9		9		7	
25136	13		13		6	
25137	7		5		15	
25138	124		67		283	
25139	80		46		267	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22293 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30031	9	7	10	8	15	16
30032	8		15		8	
30033	14		10		8	
30034	11		14		8	
30035	9		15		7	
28379	9		19		7	
28380	<5		<5		<5	
28381	18		24		19	
28382	151		93		179	
28383	263		175		296	
28384	25		16		13	
28385	39		12		18	
28386	6	9	5	8	7	11
28387	13		20		28	
28388	15		27		32	
28389	42		22		27	
28390	528	513	474	489	7936	7961
28391	28		43		83	
28392	27		48		91	
28393	20		28		78	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22293 Your order number : Project : SV-HDN Total number of samples : 90
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25140	494	508	453	471	7936	7952
25141	14		15		36	
25142	36		62		268	
25143	9		19		18	
25144	9	6	10	11	8	6
25145	<5		<5		<5	
25146	<5		<5		<5	
25147	<5		<5		<5	
25148	<5		<5		<5	
25149	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22294 Your order number : Project : SV-HDN Total number of samples : 51
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
28394		26	19	7	6	11	13
28395		39		26		78	
28396		77		32		95	
28397		60		11		49	
28398		94		94		137	
28399		12		18		12	
28400		54		96		139	
28401		<5		<5		<5	
28402		<5		<5		<5	
28403		<5		<5		<5	
25150		52		92		140	
25151		<5		<5		<5	
25152		<5	<5	<5	<5	<5	<5
25153		<5		<5		<5	
25943		<5		<5		<5	
25944		<5		<5		12	
25945		<5		<5		<5	
25946		<5		<5		<5	
25947		<5		<5		<5	
25154		<5		<5		9	



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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22294 Your order number : Project : SV-HDN Total number of samples : 51
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
28404		<5		<5		<5	
28405		29		<5		<5	
28406		186		27		101	
28407		28		13		35	
28408		61	61	27	23	104	113
28409		96		47		153	
28410		<5		<5		<5	
28411		147		97		288	
28412		446		108		197	
28413		720		101		497	
25948	1.51	1473		85		376	
25949		32		15		9	
25950		58		97		138	
27068		13		16		10	
27069		12		8		<5	
27070		469	456	509	520	7939	7960
27071		<5	<5	<5	<5	<5	<5
27072		6		14		6	
27073		<5		<5		<5	
27074		6		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22294 Your order number : Project : SV-HDN Total number of samples : 51
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
27075		<5		<5		<5	
28414		89		90		208	
28415		42		95		127	
28416		123		29		88	
28417		312		38		111	
28418		614		67		118	
28419		92		64		492	
28420		480	491	504	512	7968	7942
28421		75	81	91	98	275	283
28422		82		124		212	
28423		250		56		298	

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Laboratoire Expert Inc.

127, Boulevard Industriel
Rouyn-Noranda, Québec
Canada, J9X 6P2
Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.			
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel		Folder : 22330	*** Attention : Corrected copy ***
Rouyn-Noranda Québec Canada, J9X 6P2		Your order number :	
Telephone : (819) 762-7100 Fax : (819) 762-7510		Project : SV-HDN	
		Total number of samples : 90	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23351	5	<5	5	<5	<5	<5
23352	<5		<5		<5	
23353	<5		<5		<5	
23354	<5	<5	<5	<5	<5	<5
23355	<5		9		9	
23356	<5		5		<5	
23357	<5		<5		<5	
23358	<5		<5		<5	
23359	<5		<5		<5	
23360	----- I.S		----- I.S		----- I.S	
23361	11		12		6	
23362	35		<5		<5	
23363	48	43	38	36	110	113
23364	91		17		39	
23365	5		18		32	
23366	86		25		28	
23367	20		8		5	
23368	11		16		19	
23369	9		<5		<5	
23370	----- I.S		----- I.S		----- I.S	

I.S Insufficient sample



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
Rouyn-Noranda, Québec
Canada, J9X 6P2
Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.			
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel		Folder : 22330	*** Attention : Corrected copy ***
Rouyn-Noranda Québec Canada, J9X 6P2		Your order number :	
Telephone : (819) 762-7100 Fax : (819) 762-7510		Project : SV-HDN	
		Total number of samples : 90	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23371	10		<5		13	
23372	8		17		8	
23373	7		11		8	
23374	22		13		26	
23375	14	12	17	18	16	15
23376	14		14		15	
23377	57		20		22	
23378	62		35		69	
23379	19		34		38	
23380	----- I.S		----- I.S		----- I.S	
23381	15		13		24	
23382	36		20		44	
23383	46		36		57	
23384	133		222		556	
23385	55		150		202	
23386	49		42		124	
23387	52	60	32	29	100	92
23388	44		22		103	
23389	46		9		70	
23390	<5		<5		<5	

I.S Insufficient sample

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22330 *** Attention : Corrected copy *** Your order number : Project : SV-HDN Total number of samples : 90

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23391	144		74		219	
23392	112		107		225	
23393	127		85		206	
23394	117		30		134	
23395	109		29		129	
23396	71		36		114	
23397	288		37		122	
23398	565		61		211	
23399	175	168	45	38	135	126
23400	60		101		155	
23401	129		383		122	
23402	75		42		181	
23403	103		63		203	
23404	207		53		161	
23405	93		115		440	
23406	242		46		182	
23407	268		16		41	
23408	133		44		100	
23409	39		26		47	
23410	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22330 *** Attention : Corrected copy *** Your order number : Project : SV-HDN Total number of samples : 90

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23411	27	25	225	228	537	522
23412	20		19		201	
23413	14		6		154	
23414	13		24		41	
23415	66		10		265	
23416	143		29		333	
23417	44		14		433	
23418	17		74		586	
23419	15		<5		624	
23420	485	492	498	506	7904	7933
23421	13		67		405	
23422	290		17		309	
23423	199	187	40	46	377	369
23424	58		300		570	
23425	81		43		213	
23426	27		16		87	
23427	54		25		133	
23428	99		94		374	
23429	13		11		17	
23430	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22330 *** Attention : Corrected copy *** Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23431	<5		<5		<5	
23432	<5		<5		5	
23433	<5		<5		<5	
23434	<5		<5		<5	
23435	<5	<5	<5	<5	<5	<5
23436	<5		<5		<5	
23437	<5		<5		<5	
23438	<5		<5		<5	
23439	<5		<5		<5	
23440	499	506	501	511	7894	7926

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22331 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
23871		223	209	32	25	80	73
23872		129		18		88	
23873		74		7		36	
23874		30		<5		19	
23875		17		<5		16	
23876		9		7		32	
23877		11		25		42	
23878		11		<5		20	
23879		29		20		58	
23880		484	493	516	506	7936	7952
23881		10		14		24	
23882		<5		<5		<5	
23883		<5	<5	<5	<5	<5	<5
23884		7		11		32	
23885		138		<5		36	
23886		7		<5		<5	
23887		<5		<5		<5	
23888		<5		<5		<5	
23889		89		19		35	
23890		<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22331
	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 80

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
23891		125		13		68	
23892		139		27		51	
23893		35		7		17	
23894		256		152		224	
23895		434	420	39	38	69	72
23896		452		102		200	
23897		702		193		388	
23898	1.03	1029		205		390	
23899		173		61		91	
23900		55		105		141	
23901		86		33		47	
23902		130		13		69	
23903		147		29		54	
23904		48		320		262	
23905		36		9		16	
23906		88		21		71	
23907		302	313	23	29	51	54
23908		340		27		75	
23909		292		36		98	
23910		48		106		134	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22331 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
23911		13		<5		<5	
23912		61		<5		12	
23913		31		<5		<5	
23914		85		7		17	
23915		29		<5		<5	
23916		311		88		292	
23917		30		17		20	
23918		12		8		<5	
23919		52	58	10	12	12	12
23920		<5		<5		<5	
23921		61		15		29	
23922		67		45		77	
23923		78		67		152	
23924		139		36		140	
23925		38		26		129	
23926		875		89		530	
23927		98		71		787	
23928		427		126		472	
23929	3.43	3400		273		249	
23930		<5		<5		<5	

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
23931		83	77	6	8	<5	<5
23932		13		<5		<5	
23933		<5		<5		<5	
23934		6		9		<5	
23935		8		<5		<5	
23936		<5		10		<5	
23937		<5		<5		<5	
23938		<5		<5		<5	
23939		<5		<5		<5	
23940		<5		<5		<5	
23941		<5		<5		<5	
23942		<5		<5		<5	
23943		<5	<5	<5	<5	<5	<5
23944		14		17		<5	
23945		13		11		<5	
23946		<5		<5		<5	
23947		<5		<5		<5	
23948		<5		<5		<5	
23949		<5		<5		<5	
23950		496	502	485	493	6936	6966

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22332 Your order number : Project : SV-HDN Total number of samples : 108
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
23995		13	12	43	40	69	72
23996		10		20		13	
23997		8		<5		<5	
23998		10		6		<5	
23999		8		10		16	
24000		60		100		132	
24001		18		17		14	
24002		24		18		20	
24003		37		33		63	
24004		10		26		38	
24005		12		15		45	
24006		6		16		30	
24007		<5	<5	<5	<5	<5	<5
24008		<5		6		5	
24009		<5		10		10	
24010		51		103		147	
24011		<5		22		14	
24012		<5		59		18	
24013		7		38		37	
24014		8		23		17	



Joe Landers, Manager

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22332
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 108

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
24015		<5		25		6	
24016		<5		23		8	
24017		28		71		119	
24018		650		116		203	
24019		595	580	105	108	166	168
24020		<5		<5		<5	
24021		612		81		105	
24022		642		88		139	
24023		655		99		157	
24024	1.37	1309		100		168	
24025	1.23	1143		72		136	
24026	1.51	1459		116		200	
24027	1.30	1256		100		182	
24028		409		43		61	
24029		210		21		38	
24030		<5		<5		<5	
24031		56	53	22	27	25	30
24032		126		14		15	
24033		39		<5		63	
24034		20		15		51	

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
24035		6		12		102	
24036		<5		6		32	
24037		7		16		45	
24038		8		8		17	
24039		31		22		40	
24040		<5		<5		<5	
24041		12		42		104	
24042		13		53		167	
24043		7	10	22	27	56	60
24044		8		17		16	
24045		10		28		106	
24046		9		26		124	
24047		29		36		222	
24048		8		15		60	
24049	1.99	1969		11		30	
24050		57		102		143	
24051		435		16		39	
24052		370		33		83	
24053		193		22		49	
24054		193		44		71	

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Laboratoire Expert Inc.

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Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 108

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
24055		426	435	54	51	259	250
24056		243		37		63	
24057		29		23		9	
24058		12		31		7	
24059		56		32		26	
24060		56		107		133	
24061		593		175		156	
24062		295		111		130	
24063		251		74		104	
24064		136		63		96	
24065		77		41		16	
24066		374		69		88	
24067		552	566	63	56	96	94
24068		143		61		53	
24069		268		77		188	
24070		<5		<5		<5	
24071		344		97		164	
24072		386		114		465	
24073		370		81		446	
24074		408		182		369	

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Laboratoire Expert Inc.

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	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 108

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
24075		106		66		294	
24076	1.92	1698	1748	30	25	1088	1014
24077		391		78		191	
24078		183		49		63	
24079		233	237	35	29	53	48
24080		502	486	476	487	7900	7927
24081		103		30		47	
24082		10		19		11	
24083		<5		<5		<5	
24084		10		20		11	
24085		10		16		<5	
24086		10		<5		<5	
24087		8		22		<5	
24088		6		13		<5	
24089		6		18		<5	
24090		<5		<5		<5	
24091		10	14	22	22	<5	<5
24092		17		28		7	
24093		24		27		10	
24094		42		30		7	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22332 Your order number : Project : SV-HDN Total number of samples : 108
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
24095		241		30		22	
24096		146		31		18	
24097		164		27		13	
24098		123		17		29	
24099		25		35		13	
24100		55		108		137	
24101		18		38		12	
24102		14		34		9	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22333 Your order number : Project : SV-HDN Total number of samples : 75
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
23796		52	51	<5	<5	18	14
23797		134		<5		43	
23798		18		<5		<5	
23799		65		<5		30	
23800		<5		<5		<5	
23801		<5		<5		<5	
23802		199		38		244	
23803		234		15		37	
23804		102		<5		41	
23805		11		<5		6	
23806		24		<5		36	
23807		16		<5		11	
23808		97	90	6	8	29	26
23809		33		<5		26	
23810		51		97		160	
23811		21		<5		47	
23812		<5		<5		8	
23813		<5		<5		<5	
23814		<5		<5		<5	
23815		<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22333 Your order number : Project : SV-HDN Total number of samples : 75
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
23816		<5		<5		<5	
23817		<5		<5		<5	
23818		15		<5		11	
23819		543		36		62	
23820		<5	<5	<5	<5	<5	<5
23821	0.99	1068		57		245	
23822		499		186		782	
23823	2.47	2393		779		573	
23824		862		52		683	
23825		415		29		205	
23826		787		32		102	
23827		375		27		44	
23828		120		21		23	
23829		9		<5		<5	
23830		<5		<5		<5	
23831		6		10		<5	
23832		<5	<5	<5	<5	<5	<5
23833		63		25		68	
23834		257		74		152	
23835		247		<5		111	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22333
	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 75

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
23836		158		<5		191	
23837		205		52		269	
23838		319		44		390	
23839		441		102		371	
23840		<5		<5		<5	
23841		447		32		220	
23842		415		72		299	
23843		214		28		196	
23844		267	278	137	133	332	339
23845		185		85		127	
23846		226		29		43	
23847		213		23		53	
23848		683		107		145	
23849		289		25		221	
23850		62		95		149	
23851		240		21		64	
23852		230		35		68	
23853		33		<5		6	
23854		8		<5		12	
23855		<5		<5		<5	

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
23856		<5	<5	10	7	<5	<5
23857		<5		<5		<5	
23858		<5		<5		<5	
23859		<5		<5		<5	
23860		54		89		135	
23861		<5		9		6	
23862		<5		<5		<5	
23863		<5		<5		<5	
23864		<5		<5		<5	
23865		<5		<5		<5	
23866		<5		<5		<5	
23867		10		26		82	
23868		12	12	29	24	97	94
23869		<5		<5		27	
23870		<5		<5		<5	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22334 Your order number : Project : SV-HDN Total number of samples : 105

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23691	8	6	8	5	<5	<5
23692	131		<5		10	
23693	89		<5		13	
23694	39		<5		13	
23695	34		5		16	
23696	56		8		14	
23697	17		9		17	
23698	47		26		52	
23699	49		12		30	
23700	<5		<5		<5	
23701	37		8		9	
23702	31		13		14	
23703	5	<5	13	10	<5	<5
23704	16		6		<5	
23705	76		10		10	
23706	69		23		21	
23707	100		15		16	
23708	206		41		42	
23709	29		31		36	
23710	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22334 Your order number : Project : SV-HDN Total number of samples : 105
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23711	22		33		67	
23712	23		41		46	
23713	124		27		24	
23714	26		26		61	
23715	80	73	14	10	72	75
23716	81		67		293	
23717	105		65		266	
23718	54		28		202	
23719	52		33		60	
23720	<5		<5		<5	
23721	42		22		216	
23722	19		49		63	
23723	182		29		416	
23724	33		35		49	
23725	66		14		27	
23726	94		35		67	
23727	92	94	21	26	57	56
23728	107		33		67	
23729	73		26		30	
23730	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22334 Your order number : Project : SV-HDN Total number of samples : 105
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23731	32		23		38	
23732	101		42		68	
23733	163		31		111	
23734	170		31		75	
23735	8		17		11	
23736	5		22		12	
23737	54		41		93	
23738	42		30		93	
23739	125	130	34	30	72	66
23740	<5		<5		<5	
23741	448		82		167	
23742	404		95		210	
23743	238		124		223	
23744	479		77		212	
23745	582		104		228	
23746	233		67		173	
23747	128		97		186	
23748	240		137		308	
23749	7		<5		38	
23750	49		100		134	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22334 Your order number : Project : SV-HDN Total number of samples : 105

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23751	108	123	45	44	99	111
23752	60		42		228	
23753	744		<5		183	
23754	214		<5		185	
23755	261		<5		137	
23756	275		<5		145	
23757	86		<5		86	
23758	35		<5		175	
23759	200		<5		109	
23760	<5		<5		<5	
23761	43		48		140	
23762	50		13		134	
23763	87	78	45	40	59	64
23764	10		<5		64	
23765	24		<5		46	
23766	6		<5		80	
23767	41		<5		183	
23768	<5		<5		48	
23769	40		<5		427	
23770	463	472	488	497	7936	7963

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22334 Your order number : Project : SV-HDN Total number of samples : 105
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23771	394		<5		321	
23772	101		<5		291	
23773	53		35		303	
23774	23		146		392	
23775	92	94	34	29	412	424
23776	28		32		487	
23777	109		16		156	
23778	18		6		24	
23779	15		<5		33	
23780	<5		<5		<5	
23781	296		93		154	
23782	349		49		190	
23783	175		52		125	
23784	132		105		205	
23785	281		122		242	
23786	<5		<5		6	
23787	<5	<5	<5	<5	<5	<5
23788	<5		<5		<5	
23789	<5		<5		<5	
23790	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22334 Your order number : Project : SV-HDN Total number of samples : 105
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23791	<5		<5		<5	
23792	<5		<5		<5	
23793	<5		<5		<5	
23794	<5		<5		<5	
23795	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22347 Your order number : Project : SV-HDN Total number of samples : 57
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28087	<5	<5	<5	<5	<5	<5
28088	<5		<5		<5	
28089	11		<5		9	
28090	<5		<5		<5	
28091	12		<5		10	
28092	15		<5		18	
28093	89		<5		35	
28094	52		<5		55	
28095	28		<5		46	
28096	<5		<5		8	
28097	54		<5		18	
28098	<5		<5		35	
28099	121	116	<5	<5	112	104
28100	52		108		132	
28101	----- LNR		----- LNR		----- LNR	
28102	129		46		120	
28103	424		56		170	
28104	223		137		295	
28105	319		49		167	
28106	170		79		262	

LNR Listed not received



Joe Landers, Manager

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Laboratoire Expert Inc.

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 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22347 Your order number : Project : SV-HDN Total number of samples : 57
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28107	89		28		115	
28108	9		<5		25	
28109	234		58		160	
28110	<5		<5		<5	
28112	184	189	102	105	367	360
28113	56		145		420	
28114	61		37		124	
28115	278		50		222	
28116	7		<5		20	
28117	188		10		112	
28118	428		209		423	
28119	153		67		413	
28121	215		35		260	
28122	498		41		278	
28123	41		<5		11	
28124	28		<5		26	
28125	<5	<5	<5	<5	13	8
28126	<5		<5		<5	
28127	<5		<5		<5	
28128	<5		<5		9	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22347 Your order number : Project : SV-HDN Total number of samples : 57
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28129	<5		<5		<5	
28130	<5		<5		<5	
28131	<5		<5		<5	
28132	<5		<5		5	
28133	<5		<5		<5	
28134	<5		<5		<5	
28135	<5		<5		<5	
28136	<5		<5		<5	
28137	<5	<5	<5	<5	<5	<5
28138	<5		<5		29	
28139	<5		<5		<5	
28140	504	496	492	503	7936	7970
28141	<5		<5		<5	
28142	<5		<5		<5	
28143	<5		<5		<5	
28144	<5		<5		<5	
28145	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22348 Your order number : Project : SV-HDN Total number of samples : 60

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23967	132	126	9	6	22	18
23968	53		<5		<5	
23969	23		<5		<5	
23970	<5		<5		<5	
23971	<5		<5		<5	
23972	86		121		93	
23973	136		76		164	
23974	67		72		159	
23975	33		45		102	
23976	278		25		342	
28208	80		51		150	
28209	144		63		189	
28210	<5	<5	<5	<5	<5	<5
28211	85		67		154	
28212	30		75		174	
28213	68		78		189	
28214	158		68		196	
28215	194		73		197	
28216	70		83		192	
28217	139		59		124	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22348 Your order number : Project : SV-HDN Total number of samples : 60
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24103	8		6		<5	
24104	<5		15		8	
24105	<5		<5		<5	
24106	<5		<5		<5	
24107	<5	<5	8	6	10	14
24108	29		9		<5	
24109	9		8		5	
24110	48		132		132	
24111	25		12		9	
24112	<5		12		15	
24151	56		41		121	
24152	125		37		85	
24153	154		43		73	
24154	78		47		105	
24155	38		19		30	
24156	39		35		30	
24157	55	58	33	30	38	41
24158	210		60		91	
24159	130		39		38	
24160	57		110		137	

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Laboratoire Expert Inc.

127, Boulevard Industriel
Rouyn-Noranda, Québec
Canada, J9X 6P2
Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22348 Your order number : Project : SV-HDN Total number of samples : 60
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24123	88		29		34	
24124	12		14		9	
24125	<5		15		7	
24126	<5		17		6	
24127	<5		<5		<5	
24128	187		38		97	
24129	30		21		15	
24130	<5		<5		<5	
24131	30	34	53	47	100	103
24132	100		74		108	
24203	105		55		69	
24204	73		84		209	
24205	56		211		354	
24206	132		91		289	
24207	142		65		133	
24208	89		39		327	
24209	48		59		196	
24210	<5		<5		<5	
24211	113		32		29	
24212	8		<5		7	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22349 Your order number : Project : SV-HDN Total number of samples : 41
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24161	254	238	106	102	350	358
24162	181		77		408	
24163	17		7		31	
24164	97		32		79	
24165	<5		<5		7	
24166	115		31		65	
24167	68		52		162	
24168	27		37		65	
24169	35		40		79	
24170	503	494	499	486	7944	7963
24133	27		15		34	
24134	15		23		62	
24135	36	40	28	32	53	56
24136	74		20		79	
24137	28		49		70	
24138	<5		<5		6	
24139	35		23		43	
24140	490	503	494	507	7900	7923
24141	38		26		82	
24142	80		14		43	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22349 Your order number : Project : SV-HDN Total number of samples : 41
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23958	14		11		59	
23959	6		9		43	
23960	45		107		138	
23961	9		10		25	
23962	<5	<5	<5	<5	<5	<5
23963	76		9		8	
23964	156		55		74	
23965	190		39		54	
23966	133		65		119	
23977	907		116		186	
28218	88		50		111	
28219	24		43		73	
28220	<5		22		35	
28221	17		34		35	
28222	7		11		22	
28223	37		22		32	
28224	21	24	14	13	9	8
28225	52		27		11	
28226	38		12		15	
28227	49		13		7	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22349 Your order number : Project : SV-HDN Total number of samples : 41
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
STD NO#	470	482	488	492	7934	7961

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22417 Your order number : Project : Total number of samples : 73
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26288	10	12	<5	6	17	15
26289	11		8		22	
26290	462	473	486	501	7880	7923
26291	27		17		66	
26292	311		46		157	
26293	37		10		81	
26294	53		25		240	
26295	589		10		82	
26296	68		6		28	
26297	440		22		112	
26298	168		13		89	
26299	105		11		93	
26300	49	52	104	92	152	156
26301	146		107		226	
26302	104		42		189	
26303	71		104		214	
26304	67		25		99	
26305	58		5		35	
26306	133		41		132	
26307	276		58		134	



Joe Landers, Manager

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22417 Your order number : Project : Total number of samples : 73
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26308	82		10		16	
26309	71		6		12	
26310	<5		<5		<5	
26311	76		83		89	
26312	75	75	50	56	97	103
26313	47		81		271	
26314	30		66		144	
26315	165		83		159	
26316	96		14		240	
26317	240		100		308	
26318	64		40		350	
26319	47		29		159	
26320	504	493	482	497	7928	7964
26321	70		44		408	
26322	20		182		242	
26323	<5		5		23	
26324	<5	<5	<5	<5	10	10
26325	<5		<5		<5	
26326	<5		<5		<5	
26327	<5		<5		<5	

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Laboratoire Expert Inc.

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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22417 Your order number : Project : Total number of samples : 73

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26328	<5		<5		<5	
26329	<5		<5		<5	
26330	<5		<5		<5	
26331	<5		<5		<5	
26332	<5		<5		<5	
26333	<5		<5		<5	
26334	<5		<5		<5	
26335	<5		<5		<5	
26336	<5	<5	<5	<5	<5	<5
26337	<5		<5		<5	
26338	26		<5		<5	
26339	<5		<5		<5	
25232	<5		13		29	
25233	<5		7		16	
25234	<5		9		18	
25235	67		296		954	
25236	99		142		472	
25237	95		188		480	
25238	74		98		278	
25239	181		148		366	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22417 Your order number : Project : Total number of samples : 73
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25240	504	492	502	516	7916	7972
25241	158		99		293	
25242	130		71		170	
25243	170		52		130	
25244	118		42		89	
25245	134		92		162	
25246	84		26		44	
25247	58		7		12	
25248	49		<5		<5	
25249	30		<5		<5	
25250	50		100		140	
25251	13		10		<5	
25252	71	73	44	48	131	135

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22418
	Your order number : Project : Total number of samples : 86

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25253	38	44	64	70	271	265
25254	90		118		359	
25255	106		103		320	
25256	109		76		274	
25257	142		54		259	
25258	56		23		84	
25259	36		25		112	
25260	<5		<5		<5	
25261	53		25		82	
25262	45		36		106	
25263	67		44		100	
25264	99		37		151	
25265	123	128	74	79	134	129
25266	97		42		129	
25267	102		21		83	
25268	73		31		113	
25269	79		34		75	
25270	480	487	472	493	7952	8004
25271	240		75		203	
25272	339		63		124	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22418 Your order number : Project : Total number of samples : 86
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25273	543		11		35	
25274	88		<5		28	
25275	133		<5		49	
25276	89		<5		26	
25277	264	279	57	64	152	161
25278	60		<5		25	
25279	47		<5		29	
25280	<5		<5		<5	
25281	58		8		55	
25282	9		9		61	
25283	9		11		51	
25284	13		14		36	
25285	29		44		208	
25286	516		95		201	
25287	706		112		249	
25288	878		150		330	
25289	41	38	14	10	61	54
25290	508	491	516	521	7980	7939
25291	22		32		72	
25292	8		69		70	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22418 Your order number : Project : Total number of samples : 86
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25293	24		84		240	
25294	435		44		76	
25295	253		49		73	
25296	37		53		61	
25297	97		52		55	
25298	67		36		56	
25299	39		73		71	
25300	60		98		140	
25301	234	228	77	70	233	226
25302	16		14		11	
25303	81		32		63	
25304	222		49		188	
25305	129		35		41	
25306	187		28		32	
25307	268		74		127	
25310	<5		<5		<5	
25313	30		11		<5	
25314	19		12		<5	
25315	39		13		15	
25316	276		15		8	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22418 Your order number : Project : Total number of samples : 86

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25317	309	296	43	38	91	86
25318	239		46		55	
25319	39		44		50	
25320	508	493	504	512	7888	7924
25321	209		40		98	
25322	156		25		40	
25323	93		74		87	
25324	239		49		134	
25325	77		57		230	
25326	32		41		109	
25327	14		75		146	
25328	15		52		41	
25329	9	6	29	25	29	24
25330	<5		<5		<5	
25331	33		24		33	
27470	484	471	500	512	7892	7928
25332	12		35		76	
25333	155		38		87	
25334	237		68		150	
25335	253		48		67	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22418
	Your order number : Project : Total number of samples : 86

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25336	118		28		76	
25337	69		29		29	
25338	114		71		108	
25339	48		33		139	
25340	506	489	502	517	7936	7940
25341	41		36		260	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22419 Your order number : Project : Total number of samples : 83

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30431	41	36	<5	<5	<5	<5
30432	57		29		26	
30433	36		14		8	
30434	20		<5		<5	
30435	28		22		25	
30436	23		17		24	
30437	32		16		11	
30438	40		<5		<5	
30439	8		<5		<5	
30440	470	476	493	503	7926	7961
30441	10		<5		<5	
30442	15		<5		<5	
30443	18	18	55	49	28	24
30444	27		85		67	
30445	29		94		81	
30446	76		76		118	
30447	25		44		65	
30448	11		<5		48	
30449	26		67		75	
30450	60		106		141	



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127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22419 Your order number : Project : Total number of samples : 83
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30451	61		153		186	
30452	16		31		155	
30453	25		32		106	
30454	23		25		132	
30455	48	48	51	47	94	88
30456	82		60		116	
30457	46		17		112	
30458	48		101		416	
30459	80		10		59	
30460	<5		<5		<5	
30461	16		6		92	
30462	17		19		60	
30463	178		15		101	
30464	73		28		114	
30465	440		42		414	
30466	39		35		93	
30467	304	314	24	24	278	266
30468	93		35		164	
30469	117		74		175	
30470	500	485	489	502	8003	7983

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22419 Your order number : Project : Total number of samples : 83

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30471	125		42		261	
30472	103		38		236	
30473	112		50		200	
30474	68		33		150	
30475	66		48		99	
30476	90		60		148	
30477	86		47		224	
30478	112		44		181	
30479	30	24	19	19	20	16
30480	506	492	500	509	7924	7953
30481	28		10		12	
30482	27		<5		<5	
30483	74		10		12	
30484	60		20		18	
30485	9		<5		<5	
30486	<5		<5		<5	
30487	8		<5		<5	
30488	<5		<5		<5	
30489	<5		<5		<5	
30490	489	496	472	491	7947	7983

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22419 Your order number : Project : Total number of samples : 83

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30491	<5	<5	<5	<5	<5	<5
30492	<5		<5		<5	
30493	<5		<5		<5	
30213	<5		<5		<5	
30214	<5		<5		<5	
30215	12		6		7	
30216	<5		<5		<5	
30217	434		<5		<5	
30218	<5		<5		<5	
30219	43		47		34	
30220	504	492	478	483	8013	7982
30221	14		35		150	
30222	45	40	36	32	230	224
30223	<5		<5		<5	
30224	58		116		341	
30225	16		31		54	
30226	6		<5		<5	
30227	54		<5		<5	
30228	8		<5		<5	
30229	31		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22419 Your order number : Project : Total number of samples : 83
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30230	<5		<5		<5	
30231	<5		<5		<5	
30232	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22420 Your order number : Project : Total number of samples : 88

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30233	32	29	23	21	29	24
30234	67		36		14	
30235	45		<5		22	
30236	30		10		21	
30237	20		<5		<5	
30238	8		14		22	
30239	13		11		14	
30240	480	492	494	503	7924	7968
30241	8		15		12	
30242	31		19		19	
30243	15		17		18	
30244	11		14		34	
30245	6	6	13	10	48	43
30246	14		15		64	
30247	6		11		31	
30248	<5		<5		<5	
30249	7		<5		14	
30250	60		101		138	
30251	<5		<5		<5	
30252	<5		<5		<5	



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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22420
	Your order number : Project : Total number of samples : 88

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30253	27		13		25	
30254	17		<5		<5	
30255	35		11		33	
30256	24		<5		<5	
30257	11	8	30	26	34	28
30258	15		<5		<5	
30259	8		16		22	
30260	<5		<5		<5	
30261	<5		6		15	
30262	19		10		20	
30263	11		18		29	
30264	14		6		20	
30265	6		<5		20	
30266	8		<5		10	
30267	14		<5		9	
30268	17		15		38	
30269	132	126	67	58	255	248
30270	501	487	482	496	7984	8013
30271	39		12		44	
30272	42		22		50	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22420 Your order number : Project : Total number of samples : 88
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30273	6		8		10	
30274	39		60		198	
30275	20		27		64	
30276	61		14		101	
30277	93		66		250	
30278	92		39		199	
30279	39		11		44	
30280	<5		<5		<5	
30281	<5	<5	<5	<5	20	25
30494	<5		<5		<5	
30495	<5		<5		<5	
30496	<5		<5		<5	
30497	36		6		194	
30498	44		7		81	
30499	25		6		59	
30500	50		100		145	
30501	56		8		76	
30502	140		46		97	
30503	15		25		100	
30504	39		64		227	

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Laboratoire Expert Inc.

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22420 Your order number : Project : Total number of samples : 88

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30505	59	51	29	24	210	200
30506	42		41		106	
30507	75		216		184	
30508	8		<5		15	
30509	<5		<5		<5	
30510	<5		<5		<5	
30511	<5		<5		6	
30512	<5		<5		<5	
30513	53		6		10	
30514	22		30		134	
30515	<5		<5		<5	
30516	<5		<5		<5	
30517	142	136	12	10	154	146
30518	<5		<5		<5	
30519	<5		<5		<5	
30520	482	496	486	499	7918	7956
30521	<5		<5		<5	
30522	<5		<5		<5	
26658	<5		<5		<5	
26659	<5		<5		9	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22420 Your order number : Project : Total number of samples : 88
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26660	<5		<5		<5	
26661	<5		<5		<5	
26662	<5		<5		<5	
26663	<5		<5		<5	
26664	8	8	<5	<5	17	21
26665	<5		<5		<5	
26666	<5		<5		<5	
26667	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22422 Your order number : Project : Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26400	52	56	100	98	140	134
26401	19		10		28	
26402	13		15		28	
26403	15		<5		8	
26404	8		6		<5	
26405	9		7		13	
26406	10		7		<5	
26407	9		7		<5	
26408	10		6		<5	
26409	12		19		23	
26410	<5		<5		<5	
26411	11		15		10	
26412	11	12	8	10	<5	6
26413	7		10		14	
26414	10		6		<5	
26415	11		12		<5	
26416	<5		24		16	
26417	29		<5		<5	
26418	14		8		<5	
26419	9		10		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22422 Your order number : Project : Total number of samples : 90
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26420	456	469	518	506	7908	7937
26421	33		32		24	
26422	14		41		11	
26423	8		<5		<5	
26424	6	<5	<5	<5	<5	<5
26425	<5		<5		<5	
26426	12		10		10	
26427	15		15		16	
26428	10		17		22	
26429	13		18		44	
26430	<5		<5		<5	
26431	<5		19		40	
26432	<5		14		12	
26433	9		11		<5	
26434	<5		10		17	
26435	5		17		18	
26436	45	38	17	22	25	23
26437	12		20		30	
26438	6		19		15	
26439	<5		13		14	

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Laboratoire Expert Inc.

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Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26440	484	473	485	492	7924	7953
26441	13		26		74	
26442	71		13		12	
26443	76		20		18	
26444	18		20		49	
26445	<5		22		17	
26446	<5		26		19	
26447	5		57		14	
26448	5	<5	22	24	14	15
26449	7		44		14	
26450	460	471	488	501	7952	7983
26451	26		33		69	
26452	110		70		162	
26453	134		48		132	
26454	155		86		116	
26455	74		60		102	
26456	107		57		148	
26457	143		60		84	
26458	64		65		133	
26459	138		66		115	

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Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26460	<5	<5	<5	<5	<5	<5
26461	57		135		143	
26462	61		43		139	
26463	64		38		120	
26464	221		54		150	
26465	313		60		112	
26466	392		65		130	
26467	275		93		138	
26468	347		91		139	
26469	146		270		555	
26470	480	492	487	502	7964	8011
26471	81		121		229	
26472	995	972	31	24	61	63
26473	146		57		287	
26474	386		86		809	
26475	415		66		271	
26476	262		109		96	
26477	140		60		476	
26478	<5		18		14	
26479	463		40		266	

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Laboratoire Expert Inc.

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Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26480	<5		<5		<5	
26481	410		92		124	
26482	319		56		93	
26483	50		12		15	
26484	13	19	12	16	10	8
26485	8		9		<5	
26486	<5		10		10	
26487	<5		17		9	
26488	<5		<5		<5	
26489	29		17		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22423 Your order number : Project : Total number of samples : 81
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
27001		25	20	7	7	15	15
27002		42		32		44	
27003		109		12		21	
27004		139		<5		<5	
27005		13		<5		<5	
27006		10		<5		<5	
27007		101		11		52	
27008		134		46		41	
27009		169		44		79	
27010		<5		<5		<5	
27011		271		29		56	
27012		35		17		18	
27013		16	19	25	29	51	56
27014		148		18		27	
27015		37		36		89	
27016		41		29		58	
27017		15		13		31	
27065		11		7		7	
27066		15		10		14	
27067		18		8		17	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22423
	Your order number : Project : Total number of samples : 81

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
27018		7		8		8	
27019		86		36		113	
27020		469	472	500	511	7890	7926
27021		24		35		84	
27022		11	9	44	40	138	145
27023		25		41		71	
27024		25		12		15	
27025		137		43		206	
27026		28	28	224	234	1130	1164
27027		39		27		220	
27028		75		51		212	
27029		118		47		90	
27030		<5		<5		<5	
27031		139		74		166	
27032		137		52		119	
27033		121		45		55	
27034		330	320	54	48	101	101
27035		74		26		42	
27036		20		13		15	
27037		79		24		30	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22423
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number : Project :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 81

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
27038	2.06	2036		62		616	
27039		278		35		80	
27040		509	485	507	497	7954	7986
27041		359		51		159	
27042		435		76		241	
27043		98		16		15	
27044		53		<5		55	
27045		23		16		11	
27046		10	7	16	19	17	14
27047		183		251		320	
27058		17		23		20	
27059		<5		15		6	
27060		<5		<5		<5	
27061		<5		<5		<5	
27062		<5		<5		<5	
27063		<5		<5		<5	
27064		10		<5		<5	
26490		501	487	499	506	8024	7996
26491		<5		<5		<5	
26492		<5		<5		10	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22423
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number : Project :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 81

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
26022		54	54	20	19	69	63
27048		148		64		243	
27049		35		31		67	
27050		48		94		143	
27051		13		12		15	
27052		<5		<5		<5	
27053		<5		<5		<5	
27054		<5		<5		<5	
27055		<5		<5		<5	
27056		<5		<5		<5	
27057		<5		<5		<5	
24402		47		<5		15	
24403		<5	<5	<5	<5	<5	<5
24404		<5		<5		<5	
24405		<5		<5		<5	
24406		<5		<5		<5	
24407		<5		<5		<5	
24408		<5		<5		<5	
24409		<5		<5		<5	
24410		<5		<5		<5	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22423 Your order number : Project : Total number of samples : 81

Designation	Au FA-GRAV g/s 0.03	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24411		<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22426 Your order number : Project : Total number of samples : 96

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25342	6	5	<5	<5	6	<5
25343	157		44		396	
25344	103		52		707	
25345	116		39		330	
25346	90		53		363	
25347	88		167		543	
25348	69		62		398	
25349	42		39		124	
25350	47		95		135	
25351	<5		16		16	
25352	13		<5		<5	
25353	70		<5		<5	
25354	<5	<5	<5	<5	<5	<5
25355	<5		<5		<5	
25356	6		<5		<5	
25357	6		<5		<5	
25358	<5		20		<5	
25359	6		11		11	
25360	<5		<5		<5	
25361	<5		<5		<5	



Joe Landers, Manager

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25362	<5		<5		7	
25363	<5		<5		<5	
25364	<5		<5		<5	
25365	<5		<5		<5	
25366	<5	<5	<5	<5	<5	<5
25367	<5		<5		<5	
29126	32		<5		<5	
29127	16		<5		7	
29128	<5		<5		20	
29129	<5		<5		16	
29130	<5		<5		<5	
29131	<5		10		17	
29132	<5		<5		23	
29133	98		8		18	
29134	17		11		37	
29135	<5		<5		<5	
29136	<5	<5	<5	<5	6	7
29137	<5		<5		<5	
29138	7		<5		<5	
29139	5		<5		22	

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
29140	509	486	495	506	7904	7937
29141	<5		<5		<5	
29142	20		<5		24	
29143	5		10		34	
29144	30		10		61	
29145	13		23		39	
29146	10		6		28	
29147	<5		<5		<5	
29148	<5	<5	9	8	20	16
29149	47		<5		<5	
29150	<5		106		140	
29151	<5		<5		<5	
29152	5		<5		10	
29153	23		<5		9	
29154	16		6		36	
29155	<5		<5		<5	
29156	<5		<5		15	
29157	450		<5		10	
29158	32		<5		12	
29159	10		8		20	

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Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
29160	<5	<5	<5	<5	<5	<5
29161	<5		<5		9	
29162	<5		<5		12	
29163	10		<5		25	
29164	<5		<5		<5	
29165	<5		<5		<5	
29166	<5		<5		10	
29167	<5		6		10	
29168	<5		<5		<5	
29169	8		6		5	
29170	503	487	513	518	7976	7942
29171	30		38		146	
29172	39	34	26	29	75	69
29173	62		29		72	
29174	28		27		34	
29175	30		28		38	
29176	146		38		87	
29177	202		56		137	
29178	45		33		35	
29179	103		45		89	

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Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
29180	<5		<5		<5	
29181	92		59		118	
29182	62		55		124	
29183	36		35		61	
29184	38	38	35	30	55	60
29185	52		47		121	
29186	69		72		214	
29187	99		76		254	
29188	97		86		235	
29189	54		36		99	
29190	505	497	503	512	7992	7964
29191	177		85		239	
29192	40		45		117	
29193	88		59		192	
29194	71		53		201	
29195	127		52		219	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22427 Your order number : Project : Total number of samples : 30
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24412	39	33	20	16	24	20
24413	22		<5		8	
24414	17		10		9	
24415	33		28		43	
24416	9		11		18	
24417	<5		<5		<5	
24418	7		10		18	
24419	<5		20		17	
24420	491	502	481	494	8000	7986
24421	12		22		74	
24422	8		13		35	
24423	24		18		53	
24424	13	13	16	22	42	45
24425	21		37		162	
24426	16		31		91	
24427	23		32		51	
24428	11		29		40	
24429	6		51		134	
24430	<5		<5		<5	
24431	513		57		168	



Joe Landers, Manager

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22427 Your order number : Project : Total number of samples : 30

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24432	26		54		176	
24433	74		31		89	
24434	7		41		74	
24435	21		45		152	
24436	36	36	22	26	46	42
24437	150		34		73	
24438	29		37		108	
24439	11		73		141	
24440	484	496	511	516	7984	7996
24441	28		34		131	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Dossier original: 22286
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22508 Your order number : 1847 Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 3

Designation	Cu AAI-8 %	Ni AAI-8 %	Ni-Dup AAI-8 %
	0.010	0.010	0.010
25400		2.380	2.390
25500		2.330	2.300
28445	1.630		



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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Dossier original: 22288
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22509 Your order number : 1847 Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 4

Designation	Cu AAI-8 %	Cu-Dup AAI-8 %	Ni AAI-8 %	Ni-Dup AAI-8 %
28468	1.940	1.940		
28472	4.030			
28466	2.990			
25900			2.370	2.330



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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	Dossier original: 22289
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22510 Your order number : 1847 Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 10

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
27200		2.330	2.320
27205	3.440		
27206	3.710		
27207	1.730		
27209	2.160		
25850		2.340	2.340
24196	2.020		
24197	1.590		
24198	1.520		
24199	2.670		



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Client : Southampton Ventures Inc.	Dossier original: 22237
Adressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22529 Your order number : Project : SV-HDN Total number of samples : 1
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Ni AAE-8 %	Ni-Dup AAI-8 %
28250	2.060	2.080



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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Dossier original: 22243
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22530 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 13

Designation	Cu AAI-8 %	Cu-Dup AAI-8 %	Ni AAI-8 %	Ni-Dup AAI-8 %
	0.010	0.010	0.010	0.010
27133	1.910	1.890		
27134	1.720			
27135	1.630			
27150			2.110	2.080
24186	1.500			
24191	1.520			
24193	1.810			
24150			2.100	2.090
24201	2.290			
24202	2.260			
27100			2.090	2.100
27136	3.120			
27143	3.330	3.320		



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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22531 Your order number : Project : SV-HDN Total number of samples : 4
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Cu AAI-8 %	Cu-Dup AAI-8 %	Ni AAI-8 %	Ni-Dup AAI-8 %
	0.010	0.010	0.010	0.010
23494	1.840	1.860		
23498	1.300			
23500			2.090	2.080
25050			2.080	2.080



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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Dossier original: 22293
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22532 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 14

Designation	Ag AAI-7 ppm 0.2	Cu AAI-8 % 0.010	Cu-Dup AAI-8 % 0.010	Pb AAI-8 % 0.010
30008		3.740	3.810	
30012		7.280		
30013		7.300		
30014		1.450		
30015		1.590		
30016		1.320		
30017		4.440		
30018		1.390		
30019		1.430		
30022		1.530		
30023	240.0			1.190
30024		1.410		
25138		4.250	4.210	
25142		2.270		



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Client : Southampton Ventures Inc.	Original folder: 22242
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22572 Your order number : Project : SV-HDN Total number of samples : 2
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
30050	0.010	0.010	0.010
30076	2.160	2.050	2.050



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Client : Southampton Ventures Inc.	Original folder: 22285
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22573 Your order number : Project : SV-HDN Total number of samples : 3
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
28451	0.010	0.010	0.010
25477	1.380	1.720	1.700
25800		2.270	



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Client : Southampton Ventures Inc.	Original folder: 22287
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22574 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 5

Designation	Cu AAI-8 %	Cu-Dup AAI-8 %	Ni AAI-8 %	Ni-Dup AAI-8 %
	0.010	0.010	0.010	0.010
27214	1.430	1.440		
27215	4.370			
25484	2.720			
25485	1.230			
25450			2.100	2.090



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Client : Southampton Ventures Inc.	Original folder: 22294
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22575 Your order number : Project : SV-HDN Total number of samples : 5
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
28400		2.100	2.110
25150		2.130	2.130
25950		2.120	2.110
28421	2.610		
28422	1.350		



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Client : Southampton Ventures Inc.	Original folder: 22332
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22576 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 9

Designation	Ag AAI-7 ppm 0.2	Cu AAI-8 % 0.010	Ni AAI-8 % 0.010	Ni-Dup AAI-8 % 0.010	Pb AAI-8 % 0.010
24000			2.100	2.100	
24010			2.130	2.120	
24049	228.0	1.630			2.010
24050			2.120		
24051		1.080			
24060			2.120	2.130	
24072		1.460			
24076		1.500			
24100			2.130	2.130	



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Client : Southampton Ventures Inc.	Original folder: 22334
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22577 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 12

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
23750		2.280	2.290
23751	1.500		
23767	1.390		
23771	1.700		
23772	1.610		
23773	2.300		
23774	1.280		
23777	1.380		
23778	2.900		
23782	4.150		
23783	3.130		
23784	1.380		



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Client : Southampton Ventures Inc.	Original folder: 22349
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22582 Your order number : Project : SV-HDN Total number of samples : 2
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
23960		2.190	2.280
28218	1.330		



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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22596 Your order number : Project : SV-HDN Total number of samples : 90
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27451	38	35	19	15	18	14
27452	38		19		12	
27453	99		7		<5	
27454	77		11		<5	
27455	51		<5		<5	
27456	31		<5		<5	
27457	16		6		<5	
27458	9		7		<5	
27459	7		9		<5	
27460	<5		<5		<5	
27534	<5		13		5	
27535	<5		18		6	
27536	18	19	18	13	<5	<5
27537	<5		<5		<5	
27538	<5		10		7	
27539	<5		20		15	
27540	505	487	487	495	7932	7965
27541	<5		9		14	
27542	<5		9		<5	
27543	<5		15		<5	



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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22596 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27520	504	489	506	487	7968	7994
27521	<5		13		8	
27522	<5		<5		<5	
27523	<5		<5		<5	
27524	<5	<5	<5	<5	<5	<5
27525	<5		6		<5	
27526	<5		14		6	
27527	<5		25		9	
27528	<5		10		10	
27529	<5		10		18	
27602	<5		13		15	
27603	<5		20		18	
27604	<5		26		36	
27605	<5		10		28	
27606	<5		22		29	
27607	<5		<5		<5	
27608	38	34	10	7	15	11
27609	5		10		14	
27610	<5		<5		<5	
27611	<5		<5		<5	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22596 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27592	<5		15		59	
27593	<5		10		17	
27594	<5		<5		<5	
27595	12		<5		<5	
27596	16		<5		<5	
27597	<5		<5		<5	
27598	<5		<5		<5	
27599	<5		<5		<5	
27600	48	47	99	95	146	145
27601	<5		<5		<5	
27672	<5		<5		<5	
27673	<5		<5		<5	
27674	<5		<5		<5	
27675	<5		<5		<5	
27676	<5		<5		<5	
27677	<5		<5		<5	
27678	<5		<5		<5	
27679	<5		<5		<5	
27680	<5		<5		<5	
27681	<5		<5		<5	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22596
	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 90

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27643	31	28	148	156	467	459
27644	28		49		285	
27645	296		32		832	
27646	138		45		272	
27647	327		186		344	
27648	128		47		439	
27649	45		33		304	
27650	48		103		143	
27651	158		21		147	
27652	287		57		101	
27663	<5		<5		<5	
27664	<5		<5		<5	
27665	<5	<5	<5	<5	<5	<5
27666	<5		<5		<5	
27667	<5		<5		<5	
27668	<5		<5		<5	
27669	<5		<5		<5	
27670	505	491	518	503	7928	7959
27671	<5		<5		<5	
27682	<5		<5		<5	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22596 Your order number : Project : SV-HDN Total number of samples : 90

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27633	58		51		182	
27634	112		36		234	
27635	57		108		574	
27636	28		87		163	
27637	13	16	158	164	326	319
27638	77		24		494	
27639	51		62		240	
27640	485	493	490	501	7896	7936
27641	185		514		318	
27642	202		35		211	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22597 Your order number : Project : SV-HDN Total number of samples : 89

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27623	16	13	<5	<5	26	22
27624	21		21		55	
27625	53		<5		61	
27626	62		21		50	
27627	161		14		42	
27628	96		97		93	
27629	65		26		72	
27630	<5		<5		<5	
27631	21		44		82	
27632	40		23		90	
27653	46		561		361	
27654	272		143		347	
27655	39	36	171	166	106	112
27656	45		95		732	
27657	46		93		411	
27658	151		127		260	
27659	<5		<5		<5	
27660	<5		<5		<5	
27661	<5		<5		<5	
27662	<5		<5		<5	



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22597 Your order number : Project : SV-HDN Total number of samples : 89
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27582	<5		<5		<5	
27583	14		21		71	
27584	7		21		69	
27585	<5		<5		54	
27586	<5	<5	<5	<5	10	8
27587	<5		<5		19	
27588	6		6		24	
27589	<5		6		26	
27590	474	483	500	511	6928	6951
27591	6		16		62	
27573	<5		7		26	
27574	28		34		159	
27575	10		26		53	
27576	<5		7		17	
27577	<5		12		24	
27578	<5		<5		22	
27579	<5	<5	14	16	27	29
27580	<5		<5		<5	
27581	<5		13		53	
27683	<5		9		19	

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22597 Your order number : Project : SV-HDN Total number of samples : 89
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27684	<5		18		17	
27685	<5		14		18	
27686	<5		7		11	
27687	<5		12		19	
27688	8		<5		12	
27689	<5		12		12	
27690	487	473	509	516	7912	7942
27691	<5		21		20	
27692	<5	<5	17	14	18	14
27693	<5		<5		<5	
27694	<5		<5		8	
27695	<5		<5		10	
27696	<5		7		17	
27697	<5		7		15	
27698	<5		11		18	
27699	<5		17		17	
27700	55		101		151	
27701	<5		14		12	
27702	<5		33		19	
27703	<5		17		13	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22597 Your order number : Project : SV-HDN Total number of samples : 89
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27704	<5	<5	23	19	19	18
27705	<5		19		20	
27706	7		35		29	
27707	<5		9		15	
27708	13		19		22	
27709	27		31		63	
27710	<5		<5		<5	
27711	11		25		48	
27712	5		25		21	
27713	9		20		18	
27714	12		23		26	
27715	10		8		6	
27716	7	5	10	8	9	11
27717	6		<5		<5	
27718	8		7		7	
27719	8		10		10	
27720	507	496	513	502	7996	7972
27721	11		10		10	
27722	9		<5		<5	
27723	20		30		30	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22597 Your order number : Project : SV-HDN Total number of samples : 89

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27724	10		20		20	
27725	7		<5		<5	
27726	<5		<5		<5	
27727	<5		<5		<5	
27728	6	5	<5	<5	25	22
27729	10		60		60	
27730	<5		<5		<5	
27731	22		75		75	
27732	7		51		51	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22331
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22599 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 4

Designation	Cu AAI-8 %	Ni AAI-8 %	Ni-Dup AAI-8 %
	0.010	0.010	0.010
23900		2.130	2.120
23910		2.090	2.090
23928	2.730		
23929	1.290		



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Laboratoire Expert Inc.

127, Boulevard Industriel
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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22347
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22600 Your order number : Project : SV-HDN Total number of samples : 2
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
28100	0.010	0.010	0.010
28122	3.350	2.100	2.090



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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22333
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22601
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 22

Designation	Cu	Cu-Dup	Ni	Ni-Dup
	AAI-8 %	AAI-8 %	AAI-8 %	AAI-8 %
	0.010	0.010	0.010	0.010
23803	1.310	1.260		
23810			2.110	2.100
23821	1.590			
23822	4.070			
23823	8.000			
23824	7.070			
23825	4.100			
23826	5.010			
23827	1.420			
23835	3.740			
23836	2.630			
23837	1.810			
23838	4.470			
23839	3.150			
23841	4.650			
23842	2.440			
23843	2.820			
23845	1.350			
23846	1.660			
23848	2.420			



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22333
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22601 Your order number : Project : SV-HDN Total number of samples : 22
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu AAI-8 %	Cu-Dup AAI-8 %	Ni AAI-8 %	Ni-Dup AAI-8 %
23850	0.010	0.010	2.100	2.110
23860			2.110	2.120

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22602 Your order number : Project : SV-HDN Total number of samples : 82

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27733	46	42	11	13	37	35
27734	41		8		62	
27735	31		11		74	
27736	44		8		43	
27737	46		11		64	
27738	48		32		121	
27739	68		20		62	
27740	508	494	505	512	7980	7967
27741	32		28		105	
27742	47		38		74	
27743	69		47		97	
27744	33		42		125	
27745	30	26	57	60	135	128
27746	84		32		91	
27747	40		25		58	
27748	33		32		81	
27749	40		26		67	
27750	49		94		145	
27751	26		25		76	
27752	80		58		107	



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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22602 Your order number : Project : SV-HDN Total number of samples : 82
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27753	165		41		72	
27754	313		38		183	
27755	150		40		76	
27756	80		55		99	
27757	44	49	47	51	93	98
27758	65		53		36	
27759	159		43		371	
27760	<5		<5		<5	
27761	128		40		181	
27762	139		56		370	
27560	<5		<5		<5	
27561	<5		<5		<5	
27562	7		<5		<5	
27563	<5		<5		<5	
27564	6		6		6	
27565	<5		<5		6	
27566	22	18	6	5	<5	<5
27567	18		18		16	
27568	7		18		12	
27569-A	7		20		17	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22602 Your order number : Project : SV-HDN Total number of samples : 82
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27763	91		57		98	
27764	136		72		105	
27765	278		47		60	
27766	249		42		107	
27767	67		27		21	
27768	36		20		11	
27769	22		15		11	
27770	500	493	497	507	7894	7935
27771	11	10	14	18	12	11
27772	8		15		8	
27773	8		14		6	
27774	11		19		8	
27775	45		24		11	
27776	16		16		8	
27777	13		17		8	
27778	75		8		10	
27779	5		17		9	
27780	<5		<5		<5	
27781	6		12		10	
27782	13		10		21	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22602 Your order number : Project : SV-HDN Total number of samples : 82
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27783	<5	<5	<5	<5	<5	<5
27784	<5		<5		<5	
27550	47		100		148	
27551	<5		<5		<5	
27552	<5		<5		<5	
27553	<5		<5		10	
27554	<5		9		17	
27555	<5		10		21	
27556	5		14		16	
27557	7		19		13	
27558	7		6		9	
27559	<5		<5		<5	
30523	22	18	8	5	<5	<5
30524	34		13		21	
30525	8		18		66	
30526	<5		22		23	
30527	<5		30		79	
30528	84		58		154	
30529	6		<5		<5	
30530	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22602 Your order number : Project : SV-HDN Total number of samples : 82

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30531	<5		<5		<5	
30532	20		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22603
	Your order number :
	Project : SV-HDN
	Total number of samples : 90

Designation	Au FA-GRAV g/g 0.03	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30543		39	42	9	12	31	32	
30544		25		<5		42		
30545		17		<5		29		
30546		11		11		56		
30547		<5		17		69		
30548		<5		<5		10		
30549		<5		27		101		
30550		47		98		146		
30551		12		60		177		
30552		13		23		103		
30553		16		27		95		
30554		167		45		87		
30555		49	52	36	35	128	122	3.06
30556		39		28		122		
30557		36		67		168		
30558		95		30		140		
30559		64		38		106		
30560		<5		<5		<5		
30561		67		28		146		
30562		100		42		95		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Canada, J9X 6P2
Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22603
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 90

Designation	Au FA-GRAV g/s 0.03	Au LCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30563		87		27		122		
30564		44		52		143		
30565		321		19		134		
30566		30		21		103		
30567		30	36	11	13	84	82	
30568		62		21		103		
30569		82		29		189		
30570		492	484	506	494	7952	7976	
30571		143		19		143		
30572		106		89		114		
30573		84		19		164		
30574		321		10		68		
30575		116		32		99		
30576		125		50		243		
30577		284		34		277		
30578		147		40		162		
30579		158	156	17	16	1051	1024	
30580		<5		<5		<5		
30581		249		55		216		
30582		167		32		85		

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22603
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 90

Designation	Au FA-GRAV g/s 0.03	Au LCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30583		93		<5		10		
30584		89		6		53		
30585		<5		<5		<5		
30586	1.17	1048		49		307		
30587	1.78	1650		258		243		
30588		100		338		473		
30589		131		83		155		
30590		509	503	504	486	7912	7937	
30591		70	73	6	8	20	23	
30592		19		<5		11		
27471		<5		<5		<5		
27472		<5		<5		<5		
27473		<5		<5		<5		
27474		<5		<5		<5		
27475		<5		<5		<5		
27476		<5		<5		<5		
27477		<5		12		144		
27478		<5		<5		12		
27479		<5		12		59		
27480		<5		<5		<5		

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22603 Your order number : Project : SV-HDN Total number of samples : 90
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
27481		19	22	<5	<5	11	9	
27482		<5		14		27		
27483		6		<5		7		
27484		<5		10		15		
27485		<5		8		11		
27486		11		<5		21		
27487		21		<5		25		
27488		30		<5		19		
27489		<5		<5		14		
27490		490	499	504	487	7940	7966	
27491		<5		9		15		
27492		<5		46		72		
27493		10	13	6	5	5	<5	
27494		<5		<5		17		
27495		<5		6		18		
27496		<5		10		21		
27497		<5		12		14		
27498		<5		<5		14		
27499		<5		8		14		
27500		49		102		150		

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22603 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
27501		20		10		19		
27502		<5		<5		16		
27503		41		7		16		
27504		101		<5		22		
27505		<5	5	<5	<5	15	11	
27506		17		<5		17		
27507		9		<5		14		
27508		9		<5		13		
27509		<5		<5		15		
27510		<5		<5		<5		

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder : 22348
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22605
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 6

Designation	Cu AAI-8 %	Cu-Dup AAI-8 %	Ni AAI-8 %	Ni-Dup AAI-8 %
	0.010	0.010	0.010	0.010
23976	1.560	1.560		
24110			2.100	2.110
24160			2.090	2.080
24203	1.540			
24205	1.840			
24206	1.350			



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22606 Your order number : Project : SV-HDN Total number of samples : 69

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
26081	64	63	21	24	51	44	
26082	89		84		147		3.29
26083	335		33		92		3.11
26084	112	108	72	68	1627	1596	4.44
26085	132		47		161		2.96
26086	26		45		79		
26087	105		79		198		
26088	60		48		228		
26089	481		99		382		
26090	495	483	523	512	8024	7984	
27511	20		15		93		
27512	42		<5		12		
27514	7	6	<5	<5	<5	<5	
27515	63		<5		17		
27516	87		<5		11		
27517	20		<5		<5		
27518	<5		<5		<5		
27519	<5		<5		<5		
27465	<5		<5		<5		
27466	86		<5		<5		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22606 Your order number : Project : SV-HDN Total number of samples : 69
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
27467	63		<5		20		
27468	<5		<5		<5		
27469	26		<5		<5		
26071	64		47		47		
26072	40	43	29	27	87	84	
26073	59		21		27		
26074	19		<5		20		
26075	27		22		36		
26076	220		32		93		
26077	132		32		57		
26078	164		40		140		3.42
26079	78		52		104		
26080	<5		<5		<5		
26014	<5		<5		<5		
26015	<5		<5		<5		
26016	<5		<5		13		
26017	<5	<5	8	6	13	10	
26018	<5		<5		<5		
26019	<5		45		73		
26020	501	487	501	492	7988	7964	

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Laboratoire Expert Inc.

127, Boulevard Industriel
Rouyn-Noranda, Québec
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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22606 Your order number : Project : SV-HDN Total number of samples : 69

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
27612	<5		<5		9		
27613	<5		<5		<5		
27614	<5		<5		8		
27615	<5		<5		14		
27616	<5		<5		7		
27617	<5		<5		<5		
27530	<5		<5		<5		
27531	<5		<5		6		
27532	<5	<5	<5	<5	<5	<5	
27533	<5		<5		<5		
27569	<5		<5		<5		
27570	495	503	499	507	8002	7984	
27571	<5		<5		9		
27572	<5		<5		6		
30593	22		<5		8		
30594	99		<5		27		
30595	167		21		48		
30596	7		<5		<5		
30597	<5		<5		<5		
30598	<5		<5		<5		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22606 Your order number : Project : SV-HDN Total number of samples : 69
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ...
30599	<5	<5	<5	<5	<5	<5	0.00
30600			49		140		
30601	<5		<5		<5		
30602	<5		<5		<5		
30603	<5		<5		<5		
30604	<5		<5		<5		
30605	<5		<5		<5		
30606	<5		<5		<5		
30607	<5		10		<5		

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22607 Your order number : Project : SV-HDN Total number of samples : 80
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au FA-GRAV g/g 0.03	Au LCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
26031		160	166	5	5	12	16	3.00
26032		7		<5		<5		
26033		<5		<5		<5		
26034		<5		<5		<5		
26035		<5		11		<5		
26036		<5		<5		<5		
26037		<5		<5		<5		
26038		<5		<5		<5		2.72
26039		<5		<5		<5		2.77
26040		497	484	501	489	7960	7943	
26041		<5		<5		18		
26042		<5		<5		14		
26043		<5	<5	<5	<5	12	9	
26044		<5		<5		7		
26045		85		<5		<5		
26046		24		11		14		
26047		<5		8		<5		
26048		<5		<5		<5		2.94
26049		<5		7		15		2.95
26050		49		96		143		



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Laboratoire Expert Inc.

127, Boulevard Industriel
Rouyn-Noranda, Québec
Canada, J9X 6P2
Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22607
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 80

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5	Spec. Grav. DEN-1 ...
26051		10		<5		22		2.92
26052		<5		<5		<5		2.98
26053		<5		6		6		2.97
26054		<5		<5		10		2.98
26055		<5	<5	<5	<5	<5	<5	
26056		<5		<5		<5		
26057		<5		<5		7		
26058		<5		11		6		
26059		<5		<5		7		
26060		<5		<5		<5		
26061		<5		<5		9		
26062		<5		<5		<5		
26063		<5		6		12		
26064		<5		<5		30		
26065		<5		12		28		
26066		12		9		26		
26067		40	43	26	24	52	55	
26068		52		41		63		
26069		202		60		96		
26070		499	503	504	511	7904	7943	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22607 Your order number : Project : SV-HDN Total number of samples : 80
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30366		180		35		79		
30367		131		27		59		
30368		18		10		12		
30369		10		23		12		
30370		479	484	485	493	7976	7993	
30371		<5		13		6		
30372		<5		<5		<5		
30373		<5		10		11		
30374		<5	<5	11	14	16	16	
30375		<5		8		7		
30376		9		23		85		
30377		6		15		16		
30378		9		19		9		
30379		<5		16		13		
30380		<5		<5		<5		
30381		5		20		16		
30382		<5		13		7		
30383		<5		15		9		
30384		<5		22		30		
30385		47		168		179		

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22607 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30386		26	29	53	59	104	109	
30387		7		44		63		
30388		35		52		63		
30389		44		80		87		
30390		505	507	508	514	7908	7936	
30391		320		317		189		
30392		284		158		234		
30393		496		176		380		
30394		57		40		55		
30395		41		68		189		
30396	1.78	1801		50		96		
30397		150		112		456		
30398		232	240	98	104	594	586	
30399		768		142		548		
30400		58		110		145		
30401		676		64		478		
30402		508		108		478		
30403		630		96		422		
30404		640		240		458		
30405	1.17	1022		152		544		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22612 Your order number : Project : SV-HDN Total number of samples : 45

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30406	298	309	170	177	349	352	
30407	674		83		246		
30408	131		65		136		
30409	185		75		126		
30411	63		49		97		
30412	44		35		85		
30413	59		62		172		
30414	165		24		64		
30415	5		<5		11		
30416	<5		<5		<5		
30417	<5		<5		<5		
30418	<5		<5		<5		
30419	6	5	6	<5	6	5	
30420	486	478	518	507	7984	7957	
30421	<5		7		16		
30422	<5		<5		<5		
30423	<5		<5		<5		
30424	<5		<5		<5		
30425	<5		<5		<5		
26091	26		<5		292		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22612 Your order number : Project : SV-HDN Total number of samples : 45
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
26092	105		27		388		
26093	114		70		484		
26094	109		52		497		
26095	236		39		704		3.55
26096	16	12	<5	<5	78	72	3.30
26097	<5		<5		10		2.72
26098	97		<5		377		
26099	13		<5		<5		
26100	55		100		142		
30426	<5		<5		<5		
30427	<5		<5		<5		
30428	<5		<5		<5		
30429	<5		<5		<5		
30430	<5		<5		<5		
26101	<5		<5		<5		
26102	<5		<5		<5		
26103	<5	<5	<5	<5	<5	<5	
26104	<5		<5		<5		
26105	<5		<5		<5		
26106	<5		<5		<5		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22612
	Your order number :
	Project : SV-HDN
	Total number of samples : 45

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ...
26107	<5		<5		<5		0.00
26108	76		<5		<5		
26109	<5		<5		<5		
26110	<5		<5		<5		
26111	<5		<5		<5		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22330
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22634 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 7

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
23400		2.220	2.200
23416	1.640		
23418		1.350	
23419		1.440	
23422	2.990		
23423	2.130		
23428	1.280		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22238
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22659 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 6

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
25100		2.190	2.140
28290		2.130	2.140
28295	1.330		
28300		2.150	2.180
28303	1.880		
25175	1.560		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22420
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22666 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 4

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
30250		2.210	2.190
30278	1.410		
30500		2.190	2.200
30517	3.010		



Joe Landers, Manager

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder 22234
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22667 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 6

Designation	Cu AA1-8 %	Cu-Dup AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %	Zn AA1-8 %	Zn-Dup AA1-8 %
	0.010	0.010	0.010	0.010	0.010	0.010
25188	1.510	1.490			2.220	2.180
28350			2.180	2.210		
28357	3.570					
28358	2.460					
28359	1.380					
28361	1.820					



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
Rouyn-Noranda, Québec
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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22417
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22679 Your order number : Project : SV-HDN Total number of samples : 5
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
26300	0.010	2.180	2.230
26316	1.420		
26317	1.920		
26319	2.130		
25250		2.220	2.180



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22701 Your order number : Project : SV-HDN Total number of samples : 40
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23978	263	258	100	100	136	142
23979			125		197	
23980	499	484	501	491	7988	7960
23981	291		25		195	
23982	55		12		28	
23983	<5		<5		<5	
23984	<5		<5		<5	
23985	<5		<5		<5	
23986	<5		<5		<5	
23987	<5		<5		<5	
25192	----- LNR		----- LNR		----- LNR	
25193	53		15		57	
25194	31	17	214	204	187	178
25195	32		84		734	
25196	52		103		577	
25197	91		80		550	
25198	32		206		707	
25199	83		74		440	
25200	42		100		138	
25201	251		77		261	

LNR Listed not received



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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22701 Your order number : Project : SV-HDN Total number of samples : 40
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
25202	144		53		130	
25203	62		22		62	
25204	299		15		48	
25205	251		24		120	
25206	102	105	110	106	50	54
25207	849		68		112	
25208	85		55		69	
25209	<5		<5		<5	
25210	<5		<5		<5	
25211	15		<5		<5	
25212	<5		<5		<5	
25213	<5		<5		<5	
25214	<5		<5		<5	
25215	<5		<5		<5	
25216	<5		<5		<5	
25217	<5		<5		<5	
25218	<5	<5	<5	<5	<5	<5
25219	<5		<5		<5	
25220	475	484	510	513	7952	7966
25221	<5		<5		<5	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	Original folder: 22419
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22708
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 8

Designation	Cu	Ni	Ni-Dup
	AA1-8 %	AA1-8 %	AA1-8 %
	0.010	0.010	0.010
30450		2.200	2.200
30463	1.820		
30464	1.760		
30465	7.410		
30466	4.510		
30467	5.530		
30468	1.360		
30469	1.540		



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Laboratoire Expert Inc.

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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22418
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22709 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 2

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
25300	0.010	0.010	0.010
25325	1.430	2.170	2.160



Joe Landers, Manager

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22757 Your order number : Project : Total number of samples : 60
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26112	46	51	<5	<5	<5	<5
26113	<5		<5		<5	
26114	<5		<5		<5	
26115	<5		<5		<5	
26116	<5		<5		<5	
26117	<5		<5		<5	
26118	<5		<5		<5	
26119	<5		<5		<5	
26120	----- LNR		----- LNR		----- LNR	
26121	<5		<5		<5	
26122	<5		<5		<5	
26123	<5		<5		<5	
26124	<5	<5	<5	<5	<5	<5
26125	9		<5		<5	
26126	<5		<5		<5	
26127	<5		<5		<5	
26128	<5		<5		<5	
26129	<5		<5		<5	
26130	<5		<5		<5	
26131	12		<5		<5	

LNR Listed not received



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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22757 Your order number : Project : Total number of samples : 60
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26132	<5		<5		<5	
26133	<5		<5		<5	
26134	<5		<5		<5	
26135	<5		10		<5	
26136	<5	<5	<5	<5	<5	<5
26137	<5		<5		<5	
26138	<5		<5		<5	
26139	<5		<5		<5	
26140	519	488	500	493	8064	7963
26141	<5		<5		<5	
26142	<5		<5		<5	
26143	<5		6		<5	
26144	<5		<5		<5	
26145	7		11		<5	
26146	30		<5		<5	
26147	<5		11		<5	
26148	10	8	10	7	51	46
26149	42		18		12	
26150	60		105		138	
26151	49		17		5	

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22757
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number : Project :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 60

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26152	<5		<5		<5	
26153	<5		<5		<5	
26154	<5		<5		<5	
26155	<5		<5		<5	
26156	<5		<5		<5	
26157	<5		<5		<5	
26158	<5		<5		<5	
26159	<5		<5		<5	
26160	<5	<5	<5	<5	<5	<5
26161	<5		<5		<5	
26162	<5		<5		<5	
26163	<5		<5		<5	
26164	<5		<5		<5	
26165	<5		<5		<5	
26166	30		14		70	
26167	15		6		33	
26168	48		10		52	
26169	25		6		36	
26170	502	490	506	510	8016	7986
26171	13		8		58	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22758 Your order number : Project : Total number of samples : 60

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26172	60	66	32	28	189	193
26173	12		19		58	
26174	118		9		34	
26175	82		36		146	
26176	38		42		164	
26177	98		70		121	
26178	65		55		214	
26179	31		37		181	
26180	<5		<5		<5	
26181	47		30		104	
26182	18		27		33	
26183	32		46		155	
26184	147	133	57	58	212	226
26185	14		23		69	
26186	238		59		175	
26187	238		43		147	
26188	83		13		45	
26189	65		18		69	
26190	506	483	492	512	7896	7937
26191	20		<5		40	



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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22758 Your order number : Project : Total number of samples : 60
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26192	56		<5		33	
26193	116		53		23	
26194	111		15		96	
26195	272		17		84	
26196	157	149	43	48	139	144
26197	153		35		149	
26198	99		47		153	
26199	369		81		114	
26200	54		99		139	
26201	60		<5		<5	
26202	287		26		103	
26203	77		26		91	
26204	57		33		108	
26205	126		23		71	
26206	85		30		73	
26207	684		93		118	
26208	56	54	24	21	94	98
26209	70		19		46	
26210	<5		<5		<5	
26211	55		<5		74	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22758 Your order number : Project : Total number of samples : 60

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26212	83		<5		94	
26213	94		12		92	
26214	42		<5		36	
26215	69		11		58	
26216	113		95		201	
26217	252		89		198	
26218	<5		<5		<5	
26219	<5		<5		<5	
26220	463	476	489	490	8008	7908
26221	<5		<5		<5	
26222	<5		<5		<5	
26223	<5		<5		<5	
26224	<5		<5		<5	
26225	<5		<5		<5	
26226	<5		<5		<5	
26227	<5		<5		<5	
26228	<5		<5		<5	
26229	<5		<5		<5	
26230	<5		<5		<5	
26231	<5		<5		<5	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22759 Your order number : Project : Total number of samples : 60
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26232	<5	<5	<5	<5	<5	<5
26233	<5		<5		<5	
26234	<5		<5		<5	
26235	<5		<5		<5	
26236	<5		<5		<5	
26237	<5		<5		<5	
26238	58		8		41	
26239	277		51		134	
26240	506	488	527	515	7952	8012
26241	105		50		140	
26242	<5		<5		<5	
26243	57		12		59	
26244	242	249	177	169	319	308
26245	100		27		72	
26246	119		46		108	
26247	101		15		74	
26248	43		16		60	
26249	142		41		94	
26250	51		102		136	
26251	<5		<5		<5	



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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22759
	Your order number : Project :
	Total number of samples : 60

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26252	42		17		34	
26253	40		24		52	
26254	82		174		103	
26255	7		33		59	
26256	34	34	37	31	91	96
26257	22		36		158	
26258	131		30		206	
26259	10		24		101	
26260	<5		<5		<5	
26261	42		304		105	
26262	58		31		88	
26263	<5		<5		24	
26264	<5		<5		<5	
26265	100		<5		<5	
26266	32		19		32	
26267	87		<5		35	
26268	<5	<5	<5	<5	<5	<5
26269	<5		<5		<5	
26270	489	477	515	493	8088	7966
26271	29		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22759 Your order number : Project : Total number of samples : 60

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26272	11		<5		<5	
26273	41		<5		<5	
26274	<5		<5		<5	
26275	10		<5		<5	
26276	11		<5		<5	
26277	156		<5		14	
26278	89		22		20	
26279	81		<5		<5	
26280	<5	<5	<5	<5	<5	<5
26281	28		<5		8	
26282	70		<5		14	
26283	67		18		12	
26284	55		<5		18	
26285	42		<5		23	
26286	<5		<5		<5	
26287	8		<5		<5	
26022	<5		<5		<5	
26023	<5		<5		<5	
26024	<5		<5		<5	
26025	13		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22760 Your order number : Project : Total number of samples : 39

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24113	<5	<5	<5	<5	<5	<5
24114	12		<5		<5	
24115	10		<5		<5	
24116	<5		<5		<5	
24117	14		<5		<5	
24118	<5		<5		<5	
24119	<5		<5		<5	
24120	507	489	481	500	7872	7966
24121	<5		<5		<5	
24122	<5		<5		<5	
23681	<5		<5		<5	
23682	<5		<5		<5	
23683	<5	<5	<5	<5	<5	<5
23684	<5		<5		<5	
23685	<5		<5		<5	
23686	<5		<5		<5	
23687	25		9		51	
23688	<5		<5		23	
23689	<5		<5		<5	
23690	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22760 Your order number : Project : Total number of samples : 39
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28111	45		22		117	
28120	482	492	490	501	7848	7966
24171	239		43		168	
24172	169		37		124	
24173	59	59	52	54	209	198
24174	19		68		236	
24175	148		79		235	
24176	227		44		156	
24177	471		43		175	
24178	431		67		247	
24179	336		48		172	
24180	507	500	468	481	7792	7913
27544	<5		<5		<5	
27545	<5		<5		<5	
27546	<5		<5		<5	
27547	<5		<5		<5	
27548	<5	<5	15	18	37	42
27549	<5		<5		<5	
27551	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Canada, J9X 6P2
Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22763
	Your order number : Project :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 44

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24726	<5	<5	<5	<5	<5	<5
24727	<5		<5		<5	
24728	<5		<5		<5	
24729	<5		<5		<5	
24730	<5		<5		<5	
24731	<5		<5		<5	
24732	<5		<5		<5	
24733	<5		<5		26	
24734	<5		<5		<5	
24735	<5		<5		<5	
24738	<5		<5		<5	
24739	<5		<5		<5	
24740	516	503	508	482	8018	7884
24741	<5		<5		<5	
24742	<5		<5		<5	
24743	<5		<5		<5	
24744	<5		7		5	
24745	19		14		7	
24746	41		11		6	
24747	31		15		28	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22763 Your order number : Project : Total number of samples : 44
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24748	12		12		32	
24749	10		20		34	
28891	10		19		14	
24750	51		105		136	
24751	48	47	50	53	175	181
24752	27		42		130	
24753	28		38		94	
24754	22		65		149	
24755	95		104		278	
24756	50		51		119	
24757	35		57		110	
24758	59		20		44	
24759	84		32		66	
24790	507		501		8010	
24791	16		24		72	
24792	7		21		18	
24793	6	5	16	13	10	9
24794	15		20		11	
24795	9		34		15	
24796	7		22		14	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22763
	Your order number : Project : Total number of samples : 44

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24797	9		18		12	
24798	16		21		11	
24799	11		32		17	
24800	44		78		142	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22769
	Your order number : Project : Total number of samples : 22

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
29226	150	140	30	38	106	101
29227	114		38		111	
29228	<5		6		23	
29229	<5		103		47	
29230	<5		<5		<5	
29231	72		24		200	
29232	15		33		63	
29233	<5		38		57	
29234	<5		6		20	
29235	<5		14		76	
29236	150		42		157	
29237	254		44		167	
29238	109	99	15	19	59	56
29239	126		37		147	
29240	515	486	474	490	7952	7966
29241	<5		<5		<5	
29242	255		42		431	
29243	158		239		402	
29244	488		42		344	
29245	190		20		188	



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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22769
	Your order number : Project : Total number of samples : 22

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
29266	<5		<5		<5	
29267	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22770 Your order number : Project : Total number of samples : 70

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24372	50	44	12	9	20	18
24373	47		41		123	
24374	240		7		9	
24375	42		23		18	
24376	33		<5		<5	
24377	<5		<5		<5	
24378	6		6		<5	
24379	<5		<5		<5	
24380	<5		<5		<5	
24381	<5		14		10	
24382	<5		<5		<5	
24383	15		13		51	
24384	24	28	15	16	23	23
24385	52		26		53	
24386	72		29		34	
24387	56		13		64	
24388	22		<5		22	
24389	106		<5		96	
24390	503	481	467	493	7816	7933
24391	46		11		100	



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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22770 Your order number : Project : Total number of samples : 70
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24392	99		<5		54	
24393	<5		<5		<5	
24394	<5		<5		<5	
24395	<5		<5		<5	
24396	<5	<5	<5	<5	<5	<5
24397	<5		<5		<5	
24398	<5		<5		<5	
24399	<5		<5		<5	
24400	57		101		136	
24401	<5		<5		<5	
24462	43		51		136	
24463	319	312	89	93	1961	2013
24464	136		31		179	
24465	60		33		67	
24466	144		67		171	
24467	110		78		233	
24468	203	192	480	482	427	417
24469	171		37		321	
24470	509	488	509	514	7836	7941
24523	<5		11		20	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22770 Your order number : Project : Total number of samples : 70
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24524	13		27		40	
24525	76		72		117	
24526	54		207		82	
24527	64		88		73	
24528	87		62		119	
24529	147		76		121	
24530	<5		<5		<5	
24531	197		43		34	
24532	132	144	<5	<5	<5	<5
24562	<5		<5		<5	
24563	<5		<5		<5	
24564	<5		<5		<5	
24565	<5		<5		<5	
24566	<5		<5		<5	
24567	<5		<5		<5	
24568	<5		<5		<5	
24569	105		38		85	
24570	513	498	498	505	7868	7968
24571	<5		<5		<5	
24582	105		<5		<5	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22770
	Your order number : Project : Total number of samples : 70

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24583	56	56	92	86	146	152
24584	98		<5		<5	
24585	124		23		42	
24586	<5		25		97	
24587	<5		<5		<5	
24588	<5		<5		<5	
24589	61		<5		<5	
24590	506	491	510	503	7872	7960
24591	<5		<5		<5	
28705	151		41		159	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22771 Your order number : Project : Total number of samples : 50

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27278	<5	<5	<5	<5	<5	<5
27279	<5		<5		<5	
27280	<5		<5		<5	
27281	<5		<5		<5	
27282	<5		<5		<5	
27283	<5		<5		<5	
27284	<5		5		7	
27285	<5		13		32	
27286	<5		12		77	
27287	<5		<5		<5	
27348	45		23		41	
27349	29		27		24	
27350	52	58	97	101	142	139
27351	<5		16		58	
27352	17		9		36	
27353	54		41		211	
27354	296		111		225	
27355	15		233		200	
27356	47		<5		238	
27357	73		<5		291	



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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22771 Your order number : Project : Total number of samples : 50

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27358	512		31		129	
27359	<5		<5		<5	
27360	<5		<5		<5	
27361	<5		<5		<5	
27362	117	122	<5	<5	<5	<5
27363	705		32		60	
27364	9		<5		66	
27365	<5		<5		<5	
27366	<5		<5		<5	
27367	<5		<5		<5	
30119	50		<5		68	
30120	509	488	501	512	7972	8013
30121	98		102		105	
30122	<5		<5		124	
30123	47		21		236	
30124	15		51		129	
30125	142	154	23	19	94	97
30126	62		17		123	
30127	97		36		241	
30128	204		77		298	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22771 Your order number : Project : Total number of samples : 50

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30149	<5		<5		90	
30150	56		99		134	
30151	<5		<5		82	
30152	<5		<5		131	
30153	<5		56		79	
30154	<5		27		94	
30155	57		<5		<5	
30156	<5		<5		<5	
30157	14	15	<5	<5	<5	<5
30158	15		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22772 Your order number : Project : Total number of samples : 29

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28001	<5	<5	<5	<5	<5	<5
28002	<5		<5		<5	
28003	<5		<5		<5	
28004	<5		<5		<5	
28005	<5		<5		<5	
28006	<5		<5		<5	
28007	<5		<5		<5	
28008	<5		<5		<5	
28009	<5		<5		<5	
28010	<5		<5		<5	
28146	<5		<5		<5	
28147	<5		<5		<5	
28149	<5	<5	<5	<5	<5	<5
28150	56		98		136	
28151	<5		<5		<5	
28152	10		<5		<5	
28153	<5		<5		<5	
28154	22		<5		<5	
28155	<5		<5		5	
28186	<5		<5		<5	



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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22772 Your order number : Project : Total number of samples : 29

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28187	35		20		86	
28188	45		38		121	
28189	<5		<5		<5	
28190	478	489	504	496	7992	7937
28191	40	36	23	21	14	17
28192	119		49		22	
28193	<5		<5		<5	
28194	<5		<5		<5	
28195	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22773 Your order number : Project : Total number of samples : 40
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24811	129	120	60	56	123	119
24812	156		64		127	
24813	199		59		106	
24814	293		180		339	
24815	294		77		150	
24816	485		170		398	
24817	124		31		74	
24818	70		50		70	
24819	47		18		6	
24820	501	488	500	492	7904	7963
24871	21		71		180	
24872	<5	<5	56	60	1108	1066
24873	40	34	22	18	858	864
24874	30		48		542	
24875	52		102		160	
24876	18	21	352	363	1152	1181
24877	47		90		275	
24878	60		84		806	
24879	142		36		430	
24880	<5		<5		<5	



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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22773 Your order number : Project : Total number of samples : 40
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24881	66		62		474	
24882	188		26		194	
24883	119		30		117	
24884	96		33		217	
24885	130	142	52	56	188	175
24886	33		24		62	
24887	91		35		118	
24888	85		50		110	
24889	583		26		346	
24890	481	493	484	500	7976	8001
24891	20		6		89	
24892	54		52		110	
24893	16		21		41	
24894	78		49		133	
24895	379		15		33	
24896	498		82		304	
24897	<5	<5	40	44	246	260
24898	111		76		176	
24899	97		36		130	
24900	50		100		146	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22774 Your order number : Project : Total number of samples : 20

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26668	<5	<5	<5	<5	<5	<5
26669	<5		<5		<5	
26670	<5		<5		<5	
26671	<5		<5		<5	
26672	<5		<5		<5	
26673	8		<5		<5	
26674	<5		<5		<5	
26675	<5		16		23	
26676	<5		<5		<5	
26677	<5		<5		<5	
26678	<5		<5		<5	
26679	<5		8		5	
26680	<5	<5	<5	<5	<5	<5
26681	<5		7		11	
26682	<5		<5		<5	
26683	<5		<5		<5	
26684	<5		<5		<5	
26685	<5		<5		<5	
26686	<5		<5		<5	
26687	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22775 Your order number : Project : Total number of samples : 60
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26340	484	503	507	524	8040	7988
26341	14		18		74	
26342	<5		<5		<5	
26343	<5		<5		<5	
26344	<5		<5		<5	
26345	<5		<5		<5	
26346	<5		<5		<5	
26347	<5		27		115	
26348	<5		<5		58	
26349	----- LNR		----- LNR		----- LNR	
26350	60		102		143	
26351	<5		<5		<5	
26352	<5	<5	<5	<5	<5	<5
26353	<5		<5		<5	
26354	<5		<5		<5	
26355	<5		<5		<5	
26356	21		<5		12	
26357	<5		<5		<5	
26358	<5		<5		<5	
26359	<5		<5		<5	

LNR Listed not received



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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22775 Your order number : Project : Total number of samples : 60
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26360	<5		<5		<5	
26361	<5		<5		<5	
26362	<5		<5		<5	
26363	<5		<5		<5	
26364	<5	<5	<5	<5	<5	<5
26365	<5		<5		<5	
26366	53		<5		23	
26367	33		30		85	
26368	20		74		190	
26369	7		13		183	
26370	500	512	497	488	7936	7969
26371	61		58		142	
26372	28		10		98	
26373	21		20		111	
26374	<5		442		93	
26375	<5		<5		18	
26376	20	18	10	10	91	85
26377	18		9		53	
26378	47		355		577	
26379	321		235		441	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22775 Your order number : Project : Total number of samples : 60
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26380	<5		<5		<5	
26381	81		102		487	
26382	155		130		805	
26383	159		92		537	
26384	228		442		449	
26385	181		<5		65	
26386	<5		<5		<5	
26387	11		20		94	
26388	<5	<5	<5	<5	<5	<5
26389	<5		<5		<5	
26390	500	510	526	506	7980	8018
26391	<5		<5		<5	
26392	<5		<5		22	
26393	12		29		319	
26394	<5		11		19	
26395	<5		14		6	
26396	<5		<5		<5	
26397	150		663		1016	
26398	6		26		352	
26399	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22778 Your order number : Project : Total number of samples : 84
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30282	<5	<5	<5	<5	<5	<5
30283	18		<5		<5	
30284	25		<5		<5	
30285	73		<5		<5	
30286	47		<5		<5	
30287	<5		<5		<5	
30288	<5		<5		<5	
30289	<5		<5		<5	
30290	506	491	506	511	7950	8014
30291	<5		<5		<5	
30292	<5		<5		<5	
30293	<5		<5		<5	
30294	<5	<5	<5	<5	<5	<5
30295	<5		<5		<5	
30296	<5		<5		<5	
30297	<5		<5		<5	
30298	<5		<5		<5	
30299	<5		<5		<5	
30300	52		98		137	
30301	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22778 Your order number : Project : Total number of samples : 84
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30302	<5		<5		<5	
30303	<5		<5		<5	
30304	<5		<5		<5	
30305	<5		<5		<5	
30306	<5	<5	<5	<5	<5	<5
30307	<5		<5		<5	
30308	<5		<5		<5	
30309	<5		<5		<5	
30310	<5		<5		<5	
30311	<5		<5		<5	
30312	<5		<5		10	
30313	<5		<5		<5	
30314	<5		<5		44	
30315	28		16		48	
30316	----- LNR		----- LNR		----- LNR	
30317	<5		32		96	
30318	<5	<5	43	47	270	271
30319	<5		<5		9	
30320	475	491	512	507	7816	8022
30321	<5		<5		<5	

LNR Listed not received

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Laboratoire Expert Inc.

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	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30322	<5		<5		<5	
30323	17		<5		9	
30324	<5		<5		<5	
30325	<5		<5		<5	
30326	<5		<5		<5	
30327	<5		<5		20	
30328	<5		7		7	
30329	<5		<5		<5	
30330	<5	<5	<5	<5	<5	<5
30331	107		31		355	
30332	<5		21		78	
30333	18		33		147	
30334	10		<5		189	
30335	65		11		162	
30336	71		<5		<5	
30337	189		<5		44	
30338	110		24		192	
30339	18		<5		256	
30340	503	510	520	512	7868	7978
30341	24		11		70	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22778 Your order number : Project : Total number of samples : 84

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30342	64	67	33	29	207	194
30343	<5		<5		<5	
30344	312		56		389	
30345	590		141		442	
30346	281		46		349	
30347	104		<5		<5	
30348	<5		<5		<5	
30349	<5		<5		<5	
30350	54		98		139	
30351	<5		<5		<5	
30352	<5		<5		<5	
30353	<5		<5		<5	
30354	<5	<5	<5	<5	<5	<5
30355	<5		<5		<5	
30356	9		12		6	
30357	<5		<5		<5	
30358	<5		<5		<5	
30359	<5		<5		<5	
30360	<5		<5		<5	
30361	<5		<5		<5	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22778
	Your order number : Project : Total number of samples : 84

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30362	<5		7		6	
30363	<5		<5		<5	
30364	<5		<5		<5	
30365	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22780 Your order number : Project : Total number of samples : 66

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27379	<5	<5	<5	<5	<5	<5
27380	<5		<5		<5	
27381	<5		<5		<5	
27382	<5		<5		<5	
27383	<5		<5		<5	
27384	190		<5		<5	
27385	9		<5		<5	
27386	<5		<5		<5	
27387	<5		<5		<5	
27388	<5		<5		<5	
27389	<5		<5		<5	
27390	506	491	501	512	7820	7929
27391	<5	<5	<5	<5	<5	<5
27392	<5		<5		<5	
27393	<5		<5		<5	
27394	<5		<5		<5	
27395	<5		<5		<5	
27396	<5		<5		<5	
27397	<5		<5		<5	
27398	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22780 Your order number : Project : Total number of samples : 66
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27399	<5		<5		<5	
27400	55		100		132	
27401	<5		<5		<5	
27402	<5		<5		<5	
27403	<5	<5	<5	<5	<5	<5
27404	<5		<5		<5	
27405	<5		<5		<5	
27406	<5		<5		<5	
27407	<5		<5		<5	
27408	8		<5		<5	
27409	<5		<5		<5	
27410	<5		<5		<5	
27411	15		<5		<5	
27412	<5		<5		<5	
27413	<5		<5		<5	
27414	<5		<5		<5	
27415	<5	<5	11	8	<5	<5
27416	17		11		<5	
27417	<5		<5		<5	
27418	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22780 Your order number : Project : Total number of samples : 66
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27419	<5		<5		<5	
27420	506	479	479	493	7956	7914
27421	<5		<5		<5	
27422	<5		19		7	
27423	<5		<5		<5	
27424	<5		<5		<5	
27425	<5		6		17	
27426	<5		30		39	
27427	<5	<5	<5	<5	<5	<5
27428	70		<5		<5	
27429	99		<5		<5	
27430	<5		<5		<5	
27431	<5		<5		<5	
27432	<5		<5		<5	
27433	<5		<5		<5	
27434	<5		<5		<5	
27435	<5		<5		<5	
27436	<5		16		8	
27785	<5		<5		<5	
27786	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22780
	Your order number : Project : Total number of samples : 66

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27462	<5	<5	<5	<5	<5	<5
27463	<5		<5		<5	
27464	<5		<5		<5	
27620	485	488	494	511	8001	7834
27621	5		18		<5	
27622	<5		18		25	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22781 Your order number : Project : Total number of samples : 107

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27787	<5	<5	<5	<5	<5	<5
27788	<5		<5		<5	
27789	<5		<5		<5	
27790	505	493	515	500	7888	7936
27791	<5		13		69	
27792	<5		7		89	
27793	<5		<5		<5	
27794	<5		<5		<5	
27795	<5		<5		<5	
27796	<5		<5		<5	
27797	<5		<5		<5	
27798	<5		<5		<5	
27799	<5	<5	<5	<5	<5	6
27800	55		96		140	
27801	<5		<5		<5	
27802	<5		<5		<5	
27803	<5		<5		<5	
27804	<5		<5		<5	
27805	<5		<5		<5	
27806	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22781 Your order number : Project : Total number of samples : 107
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27807	<5		<5		<5	
27808	<5		7		11	
27809	<5		<5		<5	
27810	<5		<5		<5	
27811	<5	<5	<5	<5	<5	<5
27812	<5		<5		<5	
27813	<5		<5		<5	
27814	<5		<5		<5	
27815	56		12		31	
27816	<5		<5		<5	
27817	<5		<5		<5	
27818	<5		<5		<5	
27819	<5		<5		<5	
27820	500	488	506	491	7896	7923
27821	<5		<5		<5	
27822	<5		<5		<5	
27823	<5	<5	<5	<5	<5	<5
27824	<5		<5		<5	
27825	<5		<5		<5	
27826	<5		<5		<5	

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Laboratoire Expert Inc.

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 Canada, J9X 6P2
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22781 Your order number : Project : Total number of samples : 107

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27827	<5		<5		<5	
27828	<5		<5		<5	
27829	<5		<5		<5	
27830	<5		<5		<5	
27831	<5		<5		<5	
27832	<5		<5		<5	
27833	<5		16		10	
27834	<5		<5		<5	
27835	<5	<5	<5	<5	<5	<5
27836	<5		<5		<5	
27837	<5		27		152	
27838	<5		27		98	
27839	6		79		111	
27840	501	512	503	515	7984	7892
27841	<5		17		10	
27842	46		62		31	
27843	24		45		28	
27844	9		9		54	
27845	21		36		44	
27846	<5		89		283	

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Laboratoire Expert Inc.

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Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27847	22	26	135	129	201	213
27848	102		20		172	
27849	111		47		90	
27850	57		98		145	
27851	79		<5		54	
27852	11		<5		34	
27853	45		<5		94	
27854	39		<5		52	
27855	10		6		50	
27856	62		<5		72	
27857	50		<5		112	
27858	85		<5		116	
27859	37	42	31	37	185	193
27860	<5		<5		<5	
27861	44		<5		115	
27862	25		11		102	
27863	<5		<5		<5	
27864	24		14		100	
27865	38		18		108	
27866	29		166		32	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22781 Your order number : Project : Total number of samples : 107
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27867	54		10		183	
27868	54		30		61	
27869	23		<5		73	
27870	506	510	498	505	7816	7932
27871	24	26	<5	<5	271	274
27872	<5		<5		<5	
27873	<5		<5		<5	
27874	<5		<5		<5	
27875	<5		<5		<5	
27876	<5		<5		<5	
27877	<5		<5		<5	
27878	<5		<5		<5	
27879	<5		<5		<5	
27880	<5		<5		<5	
27881	<5		<5		<5	
27882	<5		<5		<5	
27883	<5	<5	<5	<5	<5	<5
27884	<5		<5		<5	
27885	<5		<5		<5	
27886	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22781 Your order number : Project : Total number of samples : 107
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27887	<5		<5		<5	
27888	<5		<5		<5	
27889	<5		<5		<5	
27890	503	488	531	500	7916	7898
27891	<5		<5		<5	
27892	<5		<5		<5	
27893	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22606
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22783 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 3

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
26084		1.500	1.520
26089	1.480		
30600		2.140	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22784 Your order number : Project : Total number of samples : 65
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24333	<5	<5	<5	<5	<5	<5
24334	<5		<5		<5	
24335	<5		<5		<5	
24336	<5		27		11	
24337	<5		<5		<5	
24338	<5		<5		<5	
24339	<5		<5		9	
24340	504	488	519	501	7844	7933
24341	<5		<5		51	
24352	<5		<5		<5	
24353	<5		<5		<5	
24354	14		6		28	
24355	<5	<5	11	11	7	10
24356	<5		<5		<5	
24357	<5		20		8	
24358	85		6		14	
24359	11		19		18	
24360	<5		<5		<5	
24361	<5		17		12	
24362	8		17		19	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22784 Your order number : Project : Total number of samples : 65
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24363	<5		13		14	
24364	<5		35		92	
24365	<5		27		37	
24366	<5		52		100	
24367	<5	<5	21	25	74	80
24368	<5		21		28	
24369	<5		18		35	
24370	505	511	506	501	7912	7898
24371	<5		30		43	
24452	221		61		60	
24453	679		215		151	
24454	158		55		97	
24455	181		48		101	
24456	<5		42		101	
24457	56		46		120	
24458	47		25		20	
24459	<5	6	37	33	37	37
24460	<5		<5		<5	
24461	7		34		49	
24543	322		54		87	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22784 Your order number : Project : Total number of samples : 65

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24544	426		47		101	
24545	111		27		32	
24546	<5		<5		<5	
24547	<5		<5		<5	
24548	<5		<5		<5	
24549	<5		<5		<5	
24550	60		109		147	
24551	<5		<5		<5	
24552	<5	<5	<5	<5	<5	<5
24553	<5		<5		<5	
24554	<5		<5		<5	
24555	<5		<5		<5	
24556	<5		<5		<5	
24557	<5		<5		<5	
24558	<5		<5		<5	
24559	<5		<5		<5	
24560	<5		<5		<5	
24561	<5		<5		<5	
24736	<5		<5		<5	
24737	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22784
	Your order number : Project : Total number of samples : 65

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24775	<5	<5	<5	<5	<5	<5
30112	<5		<5		<5	
24623	<5		<5		<5	
28486	11		60		103	
28821	961		100		240	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22789 Your order number : Project : SV-HDN Total number of samples : 87

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
28676	<5	<5	<5	<5	<5	<5	
28677	<5		<5		<5		
28678	<5		<5		<5		
28679	<5		<5		<5		
28680	<5		<5		<5		
28681	<5		<5		<5		
28682	<5		<5		<5		
28683	<5		<5		<5		
28684	<5		<5		<5		
28685	<5		<5		<5		
28726	<5		<5		<5		
28727	<5		<5		<5		
28728	<5	<5	<5	<5	<5	<5	
28729	<5		<5		<5		
28731	<5		<5		<5		
28732	<5		<5		<5		
28733	<5		<5		<5		
28734	<5		<5		<5		
28492	<5		<5		<5		
28493	<5		<5		<5		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22789 Your order number : Project : SV-HDN Total number of samples : 87
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
28494	<5		<5		<5		
28766	7		<5		150		
28767	<5		<5		<5		
28768	<5		<5		<5		
28770	460	486	518	497	7860	7984	
28771	218		<5		273		
28772	<5		<5		47		
28773	<5		<5		158		
28774	<5		11		17		
28775	17		16		88		
28760	<5		<5		<5		
28826	<5		<5		<5		
28827	<5		<5		<5		
28828	<5		<5		<5		
28829	<5		<5		<5		
28830	<5		<5		<5		
28831	<5	<5	<5	<5	<5	<5	
28832	<5		<5		<5		
28833	<5		<5		<5		
28834	<5		9		310		

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22789 Your order number : Project : SV-HDN Total number of samples : 87
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
28835	<5		<5		<5		
28866	14		29		69		
28867	144		15		151		
28868	948		72		712		
28869	976		44		708		
28870	505	488	500	496	7836	7967	
28871	<5		<5		20		
28872	<5		<5		<5		
28873	<5	<5	<5	<5	<5	<5	
28874	<5		<5		<5		
28875	<5		<5		<5		
28876	<5		<5		<5		
28877	<5		<5		<5		
28878	<5		<5		<5		
28879	<5		<5		<5		
28880	<5		<5		<5		
28881	8		<5		<5		
28882	<5		<5		<5		
29298	436		32		84		3.21
29299	202		195		228		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22789 Your order number : Project : SV-HDN Total number of samples : 87
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
29300	55	58	99	97	142	135	
29301	263		39		154		
29302	775		48		274		
29303	151		67		227		
29304	<5		<5		<5		
29305	<5		<5		<5		
29306	<5		<5		<5		
29307	<5		<5		<5		
30109	135		185		260		
30110	62		98		134		
30111	163		107		216		
30113	59		70		123		
30115	112	125	50	56	117	123	
30116	<5		<5		<5		
30117	53		35		100		
30118	<5		<5		<5		
N#1	<5		36		62		
30129	103		67		258		
30130	504	496	521	511	7912	8006	
30131	269		102		372		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22789 Your order number : Project : SV-HDN Total number of samples : 87

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30132	163		76		187		
30133	205		98		205		
30134	<5		18		61		
30135	41		<5		167		
30136	<5	<5	<5	<5	<5	<5	
30137	<5		<5		<5		
30138	16		<5		<5		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22790 Your order number : Project : SV-HDN Total number of samples : 62
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24496	<5	<5	<5	<5	<5	<5
24497	<5		<5		<5	
24498	<5		<5		<5	
24499	<5		<5		<5	
24500	55		99		137	
24501	9		<5		6	
24502	<5		<5		31	
28489	<5		<5		<5	
28490	501	488	504	493	8024	7913
28491	<5		<5		<5	
24513	<5		17		90	
24514	93		17		127	
24515	34	31	23	24	60	56
24516	<5		<5		<5	
24517	<5		<5		<5	
24518	<5		<5		<5	
24519	<5		<5		<5	
24520	488	507	491	506	7961	7892
24521	<5		<5		<5	
24522	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22790 Your order number : Project : SV-HDN Total number of samples : 62
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24612	650		26		653	
24613	80		50		236	
24614	544		48		376	
24615	612		116		704	
24616	456	468	124	116	904	922
24617	816		172		688	
24618	<5		<5		<5	
24619	<5		<5		<5	
24620	508	511	508	501	8104	7993
24621	<5		<5		<5	
24715	<5		<5		<5	
24770	501	495	506	511	7896	7934
24771	<5		13		38	
24772	<5		257		142	
24773	<5		22		162	
24774	24		52		108	
24776	29	33	25	23	133	129
24777	<5		20		192	
24778	70		15		122	
24779	108		25		175	

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Laboratoire Expert Inc.

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Rouyn-Noranda, Québec
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22790 Your order number : Project : SV-HDN Total number of samples : 62
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26688	<5		<5		<5	
26689	<5		<5		<5	
26690	507	501	506	496	7860	7933
26691	<5		45		<5	
26692	16		<5		<5	
26693	<5		<5		<5	
26694	<5		<5		<5	
26695	<5		<5		<5	
26696	<5	<5	<5	<5	<5	<5
26697	<5		<5		<5	
26698	<5		<5		<5	
26699	<5		<5		<5	
26700	55		100		135	
26701	<5		<5		<5	
26702	<5		<5		<5	
26703	<5		<5		<5	
26704	<5		<5		<5	
26705	<5		<5		<5	
26706	<5		<5		<5	
26707	<5		<5		<5	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22790 Your order number : Project : SV-HDN Total number of samples : 62

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28730	<5	<5	<5	<5	<5	<5
28735	72		17		69	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22791 Your order number : Project : SV-HDN Total number of samples : 30
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
29206	60	64	57	50	160	154
29207	40		37		149	
29208	112		61		169	
29209	50		38		135	
29210	<5		<5		<5	
29211	71		55		161	
29212	182		86		191	
29213	403		206		192	
29214	43		23		81	
29215	125		61		105	
29216	130		83		118	
29217	29		31		23	
29218	39	31	18	14	24	26
29219	15		11		52	
29220	514	489	519	501	7948	7966
29221	67		47		91	
29222	333		138		367	
29223	174		48		134	
29224	363		78		203	
29225	312		93		279	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22791 Your order number : Project : SV-HDN Total number of samples : 30
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
29278	<5		<5		<5	
29279	62		40		44	
29280	<5		<5		<5	
29281	44		15		62	
29282	38	42	44	46	85	86
29283	56		30		94	
29284	44		81		119	
29285	42		50		96	
29286	<5		38		108	
29287	8		71		169	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22792 Your order number : Project : SV-HDN Total number of samples : 36
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24312	<5	<5	<5	<5	<5	<5
24313	<5		<5		11	
24314	<5		21		17	
24315	<5		14		19	
24316	<5		5		8	
24317	<5		<5		7	
24318	<5		<5		11	
24319	<5		<5		<5	
24320	507	488	508	501	7928	8012
24321	<5		<5		<5	
24322	<5		<5		<5	
24602	50		450		666	
24603	16	17	38	41	140	141
24604	<5		12		211	
24605	<5		<5		<5	
24606	<5		20		30	
24607	<5		<5		19	
24608	<5		10		23	
24609	52		<5		<5	
24610	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24611	<5		29		46	
24716	<5		26		22	
24717	<5		<5		<5	
24718	<5		26		26	
24719	<5	<5	<5	<5	<5	<5
24720	506	510	526	500	7976	7963
24721	<5		<5		<5	
24722	<5		13		24	
24723	<5		12		20	
24724	<5		32		23	
24725	<5		<5		<5	
24911	<5		30		101	
24912	<5		11		21	
24913	<5		<5		<5	
24914	<5		20		24	
24926	<5		40		34	

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Laboratoire Expert Inc.

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Rouyn-Noranda, Québec
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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22793 Your order number : Project : SV-HDN Total number of samples : 81
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24302	<5	<5	<5	<5	10	8
24303	<5		<5		15	
24304	<5		<5		6	
24305	<5		<5		48	
24306	<5		<5		9	
24307	<5		<5		24	
24308	<5		<5		6	
24309	<5		<5		<5	
24310	<5		<5		<5	
24311	<5		<5		<5	
24342	<5		<5		<5	
24343	8		<5		<5	
24344	<5	<5	<5	<5	34	28
24345	<5		<5		<5	
24346	<5		<5		<5	
24347	<5		<5		<5	
24348	<5		<5		<5	
24349	<5		<5		<5	
24350	52		98		143	
24351	<5		<5		15	



Joe Landers, Manager

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24442	100		5		60	
24443	157		32		78	
24444	125		42		104	
24445	72		89		182	
24446	81	84	83	79	297	289
24447	148		23		81	
24448	80		32		77	
24449	191		119		215	
24450	49		97		150	
24451	125		104		194	
24491	<5		<5		7	
24492	<5		<5		<5	
24493	<5		<5		<5	
24494	<5		<5		<5	
24495	<5		<5		<5	
28484	<5		<5		<5	
28485	<5	<5	<5	<5	<5	<5
30209	<5		<5		<5	
30210	<5		<5		<5	
30211	<5		<5		<5	

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30212	<5		<5		<5	
24503	<5		<5		<5	
24504	<5		<5		<5	
24505	<5		<5		<5	
24506	<5		<5		18	
24507	<5		<5		15	
24508	<5		<5		13	
24509	12		23		78	
24510	<5	<5	<5	<5	<5	<5
24511	12		25		104	
24512	45		43		147	
24533	<5		<5		11	
24534	<5		<5		64	
24535	<5		11		7	
24536	<5		8		20	
24537	55		16		63	
24538	12		<5		<5	
24539	202		33		71	
24540	493	491	503	497	7860	7960
24541	169		38		82	

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24542	146	142	20	17	52	55
24572	119		8		32	
24573	45		27		100	
24574	33		<5		8	
24575	<5		<5		<5	
24576	<5		<5		<5	
24577	<5		<5		8	
24578	<5		9		44	
24579	<5		<5		<5	
24580	<5		<5		<5	
24581	214		<5		<5	
24801	32		147		181	
24802	147	153	177	166	362	348
24803	46		48		111	
24804	12		87		178	
24805	36		48		93	
24806	66		32		84	
24807	<5		47		95	
24808	7		12		62	
24809	387		92		216	

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22793 Your order number : Project : SV-HDN Total number of samples : 81

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24810	<5		<5		<5	

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Laboratoire Expert Inc.

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 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22794
	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 103

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24831	<5	<5	<5	<5	<5	<5
24832	496		<5		81	
24833	<5		<5		<5	
24834	<5		<5		<5	
24835	<5		<5		<5	
24836	<5		<5		<5	
24837	<5		<5		<5	
24838	<5		<5		<5	
24839	28		<5		14	
24840	490	477	488	500	8008	8101
24841	92		<5		32	
24842	30		<5		12	
24843	26	25	<5	<5	8	6
24844	103		<5		33	
24845	68		<5		14	
24846	<5		<5		<5	
24847	<5		<5		<5	
24848	49		<5		26	
24849	38		108		132	
24850	53		92		142	



Joe Landers, Manager

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22794 Your order number : Project : SV-HDN Total number of samples : 103
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24851	13		36		75	
24852	54		86		162	
24853	32		42		89	
24854	11		48		115	
24855	28	22	16	16	52	57
24856	101		19		75	
24857	268		70		117	
24858	377		35		92	
24859	125		<5		15	
24860	<5		<5		<5	
26547	<5		<5		<5	
26548	<5		<5		<5	
26549	<5		<5		<5	
26550	<5		<5		<5	
26551	<5		<5		<5	
26552	<5		<5		<5	
26553	<5	<5	<5	<5	<5	<5
26554	<5		<5		<5	
26555	<5		<5		<5	
26556	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22794 Your order number : Project : SV-HDN Total number of samples : 103
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26728	23		23		130	
26729	28		15		269	
26730	<5		<5		<5	
26731	58		46		180	
26732	75		24		108	
26733	188		11		69	
26734	103		<5		84	
26735	73		7		62	
26736	88	83	<5	<5	55	48
26737	92		<5		62	
27239	<5		<5		<5	
27240	487	471	508	500	7944	7986
27241	<5		<5		<5	
27242	<5		<5		<5	
27243	<5		<5		<5	
27244	<5		<5		<5	
27245	<5		<5		<5	
27246	<5		<5		<5	
27247	<5		<5		<5	
27248	<5		<5		<5	

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Laboratoire Expert Inc.

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	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27298	<5	<5	<5	<5	<5	<5
27299	<5		<5		44	
27300	56		101		148	
27301	<5		<5		<5	
27302	<5		<5		6	
27303	19		<5		<5	
27304	<5		<5		<5	
27305	<5		<5		<5	
27306	<5		<5		66	
27307	<5		<5		21	
28022	<5		8		39	
28023	<5		<5		50	
28024	<5	<5	5	<5	90	86
28025	<5		<5		98	
28026	<5		<5		<5	
28027	<5		<5		<5	
28028	<5		<5		<5	
28029	78		<5		<5	
28030	<5		<5		<5	
28031	7		20		48	

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28166	<5		<5		<5	
28167	<5		<5		<5	
28168	9		<5		11	
28169	14		<5		56	
28170	502	481	493	507	7868	7941
28171	58		<5		<5	
28172	<5		<5		12	
28173	<5		<5		13	
28174	<5		<5		8	
28175	8		<5		<5	
28196	<5		<5		<5	
28197	<5		<5		<5	
28198	<5		<5		6	
28199	<5		<5		<5	
28200	55		99		136	
30704	19		<5		16	
30705	39	35	<5	<5	58	53
30706	58		<5		53	
30707	26		<5		22	
30708	49		8		91	

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Laboratoire Expert Inc.

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Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30709	28		8		71	
30710	<5		<5		8	
30711	<5		<5		<5	

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22795 Your order number : Project : SV-HDN Total number of samples : 89

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26718	123	138	27	30	74	72
26719	91		36		98	
26720	507	488	504	493	7972	7937
26721	69		27		175	
26722	30		36		64	
26723	41		22		94	
26724	43		<5		84	
26725	57		29		85	
26726	27		84		155	
26727	<5		46		104	
26738	182		40		170	
26739	209		52		976	
26740	493	480	482	500	7980	8004
26741	23		16		20	
26742	<5		<5		8	
26743	<5		<5		<5	
26744	<5		<5		<5	
26745	<5		<5		<5	
26746	<5		<5		<5	
26747	<5		<5		<5	



Joe Landers, Manager

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Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26992	<5		<5		<5	
26993	<5		<5		<5	
26994	<5		<5		<5	
26995	<5		<5		<5	
26996	28	32	42	45	99	92
26997	48		51		109	
26998	<5		<5		<5	
26999	96		59		114	
27000	54		102		140	
27249	<5		<5		<5	
27250	53		98		147	
27251	<5		10		8	
27252	<5		<5		<5	
27253	<5		11		54	
27254	<5		11		6	
27255	<5		<5		<5	
27256	<5	<5	<5	<5	<5	<5
27257	<5		8		5	
27258	<5		<5		<5	
27259	<5		<5		<5	

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Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27260	<5		<5		<5	
27261	<5		<5		<5	
27262	<5		28		16	
27263	<5		33		9	
27264	<5		<5		<5	
27265	<5		<5		<5	
27266	<5		<5		6	
27267	<5		<5		<5	
28487	<5	<5	<5	<5	<5	<5
27268	<5		18		6	
27269	<5		<5		<5	
27270	479	490	500	497	7908	7977
27271	<5		<5		10	
27272	<5		<5		104	
27273	<5		13		6	
27274	<5		<5		<5	
27275	<5		<5		<5	
27276	<5		<5		<5	
27277	<5		<5		<5	
27288	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22795 Your order number : Project : SV-HDN Total number of samples : 89

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27289	<5	<5	<5	<5	<5	<5
27290	477	493	493	501	7954	7892
27291	<5		8		13	
27292	<5		<5		<5	
27293	8		19		15	
27294	<5		18		19	
27295	<5		<5		<5	
27296	<5		13		6	
27297	<5		10		10	
27318	<5		7		12	
27319	18		39		73	
27320	49		97		153	
27321	109	101	24	28	38	38
27322	30		96		59	
27323	108		69		130	
27324	28		57		91	
27325	40		35		96	
27326	39		68		178	
27327	57		94		185	
27328	55		69		145	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22795
	Your order number :
	Project : SV-HDN
	Total number of samples : 89

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27329	20		55		110	
27330	<5		<5		<5	
27331	104		56		167	
27332	19		50		147	
27333	79	85	93	101	262	263
27334	59		58		222	
27335	64		92		167	
27336	252		53		272	
27337	288		63		227	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22797 Your order number : Project : SV-HDN Total number of samples : 40

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28156	13	10	<5	<5	10	10
28157	<5		<5		<5	
28158	30		<5		11	
28159	<5		<5		8	
28160	<5		<5		<5	
28161	<5		<5		7	
28162	<5		<5		6	
28163	60		<5		15	
28164	42		<5		13	
28165	53		<5		<5	
28666	<5		<5		<5	
28667	<5		<5		<5	
28668	<5	<5	<5	<5	7	<5
28669	<5		5		32	
28670	483	477	501	510	8104	7998
28671	<5		<5		15	
28672	<5		<5		14	
28673	<5		<5		<5	
28674	<5		<5		<5	
28675	<5		<5		14	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22797 Your order number : Project : SV-HDN Total number of samples : 40
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28736	59		<5		39	
28737	<5		<5		27	
28738	128		125		535	
28739	69		31		166	
28740	505	491	504	507	7844	7936
28741	82		30		90	
28742	128		49		153	
28743	234		44		144	
28744	129		40		116	
28745	14		<5		48	
28856	317		55		113	
28857	118		36		99	
28858	28		8		20	
28859	<5		<5		13	
28860	<5		<5		<5	
28861	7		<5		30	
28862	<5	<5	<5	<5	21	26
28863	<5		14		47	
28864	<5		8		50	
28865	17		<5		12	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22798 Your order number : Project : SV-HDN Total number of samples : 58
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
28706	<5	<5	<5	<5	<5	<5	
28707	<5		<5		24		
28708	<5		<5		<5		
28709	<5		<5		<5		
28710	<5		<5		<5		
28711	<5		<5		<5		
28712	<5		<5		<5		
28713	<5		<5		<5		
28714	<5		<5		<5		
28715	<5		<5		<5		
28756	<5		<5		<5		
28757	<5		<5		<5		
28758	<5	<5	<5	<5	<5	<5	
28759	<5		<5		<5		
28761	<5		<5		<5		
28762	<5		<5		<5		
28763	83		32		125		
28764	60		31		98		
28765	32		22		53		
28776	157		80		32		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22798 Your order number : Project : SV-HDN Total number of samples : 58
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
28777	82		19		89		
28778	322		82		126		
28779	321		69		100		
28780	<5		<5		<5		
28781	946	918	95	88	300	299	
28782	481		80		539		
28783	334		96		381		
28784	33		8		41		
28785	25		<5		43		
28816	<5		<5		<5		
28817	9		12		18		
28818	49		8		16		
28819	43		<5		14		
28820	479	484	498	507	7861	7947	
28822	313		48		84		
28823	139		41		62		
28824	<5	<5	<5	<5	<5	<5	
28825	<5		<5		<5		
28836	<5		<5		<5		
28837	<5		12		5		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22798 Your order number : Project : SV-HDN Total number of samples : 58
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
28838	<5		<5		<5		
28839	<5		11		23		
28840	493	481	500	507	7992	7928	
28841	<5		6		7		
28842	<5		<5		<5		
28843	<5		<5		<5		
28844	<5		<5		<5		
28845	<5		<5		<5		
30533	<5	<5	<5	<5	<5	<5	
30534	<5		<5		<5		
30535	<5		<5		<5		3.01
30536	<5		<5		<5		
30537	<5		<5		<5		
30538	<5		<5		12		
30539	57		<5		<5		
30540	477	491	502	489	8184	8081	
30541	<5		<5		<5		
30542	<5		<5		<5		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22799 Your order number : Project : SV-HDN Total number of samples : 68
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
29308	<5	<5	<5	<5	<5	<5	
29309	<5		<5		<5		
29310	<5		<5		<5		
29311	23		<5		<5		
29312	<5		<5		<5		
29313	<5		<5		<5		
29314	<5		<5		<5		
29315	<5		<5		<5		
29316	<5		<5		<5		
29317	<5		<5		<5		
29318	<5		<5		<5		3.12
28696	<5		<5		<5		
28697	<5	<5	<5	<5	<5	<5	
28698	<5		<5		<5		
28699	<5		<5		<5		
28700	55		93		147		
28701	<5		<5		<5		
28702	19		<5		<5		
28703	<5		<5		<5		
28704	<5		<5		<5		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22799 Your order number : Project : SV-HDN Total number of samples : 68
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
29268	123		19		64		
29269	218		36		120		
29270	474	491	504	499	8072	7969	
29271	96		23		84		
29272	399	372	71	66	157	154	
29273	160		24		161		
29274	508		61		143		
29275	287		20		163		
29276	32		26		67		
29277	15		<5		31		
29196	34		17		106		
29197	40		27		109		
29198	80		35		151		
29199	236		22		120		
29200	49		99		152		
29201	81		32		126		
29202	<5	5	<5	<5	79	74	
29203	<5		9		86		
29204	208		21		95		
29205	21		<5		81		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22799 Your order number : Project : SV-HDN Total number of samples : 68
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
27461	<5		<5		<5		
27513	<5		<5		<5		
27618	6		<5		45		
27619	<5		<5		<5		
26021	<5		<5		<5		
26026	<5		<5		<5		
26027	<5		<5		<5		
26028	133		<5		18		
26029	<5	<5	<5	<5	<5	<5	
26030	<5		<5		<5		
30179	<5		20		<5		
30180	<5		<5		<5		
30181	<5		<5		<5		
30182	<5		<5		<5		
30183	<5		<5		<5		
30184	<5		<5		<5		
30185	<5		<5		<5		
30186	<5		<5		<5		
30187	<5		<5		<5		
30188	<5		<5		<5		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22799
	Your order number :
	Project : SV-HDN
	Total number of samples : 68

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
28883	230	218	64	60	229	228	
28884	118		32		62		
28885	738		39		60		
28886	97		<5		<5		
28887	<5		<5		<5		
28888	<5		<5		<5		
28889	<5		<5		<5		
28890	480	491	504	495	7960	7979	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22800 Your order number : Project : SV-HDN Total number of samples : 60

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
29256	<5	<5	<5	<5	<5	<5	
29257	<5		<5		<5		
29258	<5		<5		<5		
29259	<5		<5		<5		
29260	<5		<5		<5		
29261	<5		<5		<5		
29262	<5		<5		<5		
29263	<5		<5		<5		
29264	<5		<5		<5		
29265	<5		<5		<5		
29288	11		54		232		
29289	99		79		265		
29290	475	488	503	494	7992	7941	
29291	61		45		139		
29292	32		48		200		
29293	56		68		368		
29294	78		127		237		
29295	89		28		122		
29296	470		54		121		3.49
29297	491		420		281		3.46



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22800 Your order number : Project : SV-HDN Total number of samples : 60
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30099	6		32		218		
30100	<5		<5		<5		
30101	<5		17		202		
30102	<5		<5		<5		
30103	<5	<5	<5	<5	<5	<5	
30104	<5		<5		<5		
30105	<5		6		12		
30106	<5		<5		36		
30107	<5		<5		15		
30108	59		113		157		
30159	157		<5		37		
30160	<5		<5		<5		
30161	43		<5		9		
30162	8		22		82		
30163	<5		11		28		
30164	<5		10		307		
30165	<5	<5	6	<5	30	32	
30166	<5		<5		<5		
30167	<5		<5		<5		
30168	<5		<5		<5		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22800 Your order number : Project : SV-HDN Total number of samples : 60

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30169	<5		<5		<5		
30170	490	479	502	495	8060	7973	
30171	<5		<5		<5		
30172	<5		<5		<5		
30173	<5		<5		<5		
30174	<5		<5		<5		
30175	<5		<5		<5		
30176	<5		<5		<5		
30177	<5	<5	<5	<5	<5	<5	
30178	<5		<5		<5		
30199	<5		<5		<5		
30200	53		94		142		
30201	<5		<5		<5		
30202	<5		<5		<5		
30203	<5		<5		<5		
30204	<5		<5		<5		
30205	<5		<5		<5		
30206	<5		<5		<5		
30207	<5		<5		<5		
30208	<5		<5		<5		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22812 Your order number : Project : SV-HDN Total number of samples : 80

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24323	<5	<5	<5	<5	<5	<5
24324	<5		<5		<5	
24325	<5		<5		<5	
24326	<5		<5		<5	
24327	<5		<5		<5	
24328	17		<5		<5	
24329	<5		<5		<5	
24330	<5		<5		<5	
24331	<5		<5		<5	
24332	<5		<5		<5	
24471	211		18		79	
24472	38		25		49	
24473	<5	<5	<5	<5	<5	<5
24474	<5		<5		<5	
24475	<5		<5		<5	
24476	<5		<5		<5	
24477	<5		<5		<5	
24478	<5		<5		<5	
24479	<5		<5		<5	
24480	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22812 Your order number : Project : SV-HDN Total number of samples : 80
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24481	<5		<5		<5	
24482	<5		<5		<5	
24483	<5		<5		<5	
24484	<5		<5		<5	
24485	<5	<5	<5	<5	<5	<5
24486	<5		<5		<5	
24487	<5		<5		<5	
24488	<5		<5		<5	
24489	<5		<5		<5	
24490	488	477	509	493	7884	7941
24592	<5		<5		<5	
24593	51		13		83	
24594	118		7		50	
24595	42		<5		22	
24596	142		<5		60	
24597	42		<5		296	
24598	193	180	<5	<5	1014	1062
24599	200		<5		400	
24600	53		91		152	
24601	433		<5		447	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22812 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24622	<5		<5		<5	
24624	<5		<5		<5	
24625	52		<5		<5	
24626	<5		<5		<5	
24627	<5		<5		<5	
24628	<5		<5		<5	
24629	<5		<5		<5	
24630	<5		<5		<5	
24631	<5	<5	<5	<5	<5	<5
24632	<5		<5		<5	
24760	<5		<5		<5	
24761	136		7		26	
24762	100		31		44	
24763	55		27		74	
24764	19		23		144	
24765	<5		52		305	
24766	24		16		58	
24767	<5		5		46	
24768	11		71		80	
24769	45		80		127	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22812 Your order number : Project : SV-HDN Total number of samples : 80

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24780	<5	<5	<5	<5	<5	<5
24781	53		25		43	
24782	155		11		46	
24783	23		46		84	
24784	<5		<5		<5	
24785	<5		<5		<5	
24786	<5		<5		<5	
24787	<5		<5		<5	
24788	<5		<5		<5	
24789	<5		<5		<5	
24821	78		102		73	
24822	159		55		117	
24823	125	135	6	6	82	80
24824	72		24		76	
24825	114		207		150	
24826	81		34		56	
24827	11		109		138	
24828	<5		33		84	
24829	<5		48		104	
24830	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22813 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24861	<5	<5	<5	<5	<5	<5
24862	94		<5		135	
24863	8		134		391	
24864	426		<5		168	
24865	<5		<5		127	
24866	<5		169		205	
24867	<5		<5		92	
24868	<5		<5		260	
24869	57		33		95	
24870	484	477	504	499	7980	7976
24901	61		7		127	
24902	32		28		91	
24903	<5	<5	<5	<5	<5	<5
24904	<5		<5		<5	
24905	<5		<5		<5	
24906	<5		<5		<5	
24907	<5		<5		<5	
24908	<5		<5		<5	
24909	<5		<5		<5	
24910	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22813 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26708	<5		<5		<5	
26709	10		<5		<5	
26710	<5		<5		<5	
26711	<5		<5		<5	
26712	18	16	41	39	122	126
26713	69		51		131	
26714	27		47		163	
26715	18		70		218	
26716	211		54		157	
26717	102		<5		72	
27308	<5		<5		<5	
27309	<5		<5		<5	
27310	<5		<5		<5	
27311	<5		7		24	
27312	24		17		71	
27313	18		29		74	
27314	22	19	42	39	70	63
27315	21		35		47	
27316	82		18		61	
27317	9		26		51	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22813 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28716	<5		26		28	
28717	19		25		18	
28718	<5		21		13	
28719	<5		11		10	
28720	476	481	489	501	7956	8016
28721	<5		12		11	
28722	<5		26		26	
28723	<5		<5		<5	
28724	<5	<5	<5	<5	<5	<5
28725	<5		<5		<5	
28786	18		<5		<5	
28787	<5		<5		<5	
28788	<5		<5		<5	
28789	<5		<5		<5	
28790	471	490	508	495	7844	7913
28791	<5		<5		<5	
28792	<5		<5		<5	
28793	<5		<5		<5	
28794	<5		<5		<5	
28795	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22813 Your order number : Project : SV-HDN Total number of samples : 80

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28796	<5	<5	<5	<5	<5	<5
28797	<5		<5		<5	
28798	<5		<5		<5	
28799	<5		<5		<5	
28800	52		103		141	
28801	<5		<5		<5	
28802	<5		<5		<5	
28803	<5		<5		<5	
28804	<5		<5		<5	
28805	<5		<5		<5	
29246	44		35		91	
29247	<5		<5		<5	
29248	<5	<5	<5	<5	<5	<5
29249	<5		<5		<5	
29250	54		97		146	
29251	<5		<5		<5	
29252	<5		<5		<5	
29253	<5		<5		<5	
29254	<5		<5		<5	
29255	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22814 Your order number : Project : SV-HDN Total number of samples : 96

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
26748	<5	<5	<5	<5	<5	<5	
26749	<5		<5		<5		
26750	50		93		142		
26751	<5		<5		<5		
26752	<5		10		10		
26982	<5		30		22		
26983	196		26		90		
26984	<5		<5		<5		2.92
26985	<5		<5		16		2.96
26986	<5		<5		<5		
26987	<5		<5		<5		
26988	<5		14		14		
26989	<5	<5	<5	<5	<5	<5	
26990	494	482	499	503	8001	7992	
26991	<5		<5		<5		
27338	224		35		171		
27339	62		9		134		
27340	479	474	511	493	7972	7955	
27341	33		<5		138		
27342	35		32		122		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22814 Your order number : Project : SV-HDN Total number of samples : 96
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
27343	150		210		180		
27344	73		51		88		
27345	109		27		160		
27346	108		33		125		
27347	60	66	38	42	100	107	
27368	<5		<5		<5		
27369	<5		<5		<5		
27370	496	483	494	507	7908	7993	
27371	<5		<5		<5		
27372	<5		<5		<5		
27373	<5		<5		<5		
27374	<5		<5		<5		
27375	10		<5		<5		
27376	<5		<5		<5		
27378	<5		<5		<5		
28488	<5		<5		<5		
28176	44	39	<5	6	25	29	
28177	254		62		111		
28178	376		10		150		
28179	96		96		134		

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22814 Your order number : Project : SV-HDN Total number of samples : 96

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
28180	<5		<5		<5		
28181	64		6		40		
28182	278		<5		298		
28183	412		86		230		
28184	886		24		349		
28185	271		100		166		
28686	<5		<5		<5		
28687	<5		<5		<5		
28688	<5	<5	<5	<5	<5	<5	
28689	<5		<5		<5		
28690	479	486	508	491	8008	7963	
28691	<5		<5		<5		
28692	<5		<5		<5		
28693	12		<5		<5		
28694	21		<5		<5		
28695	<5		<5		<5		
28746	11		9		164		
28747	<5		<5		<5		
28748	<5		<5		<5		
28749	10		5		30		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22814 Your order number : Project : SV-HDN Total number of samples : 96
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
28750	47	54	97	100	143	149	
28751	68		224		82		
28752	83		45		118		
28753	126		41		127		
28754	82		26		121		
28755	86		24		96		
28806	<5		<5		<5		
28807	<5		<5		<5		
28808	7		<5		67		
28809	<5		<5		45		
28810	<5		<5		<5		
28811	<5		<5		13		
28812	<5	<5	<5	<5	<5	<5	
28813	<5		<5		24		
28814	<5		<5		<5		
28815	<5		<5		<5		
28846	<5		<5		<5		
28847	<5		<5		53		
28848	<5		10		36		
28849	<5		25		78		

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Laboratoire Expert Inc.

127, Boulevard Industriel
Rouyn-Noranda, Québec
Canada, J9X 6P2
Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22814
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 96

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
28850	50		96		144		
28851	40		38		144		
28852	173		86		205		
28853	35		71		146		
28854	149	138	72	80	179	173	
28855	491		122		237		
30139	<5		<5		<5		
30140	478	487	505	493	7936	8001	
30141	264		60		246		
30142	253		73		284		
30143	118		43		119		
30144	144		34		124		
30145	19		96		131		
30146	41		33		117		
30147	19		68		160		
30148	32		48		129		

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22607
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22835 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 12

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
26050		2.200	2.170
30393	1.370		
30396	1.830		
30397	4.970		
30398	1.720		
30399	3.590		
30400		2.180	
30401	1.610		
30402	2.120		
30403	2.070		
30404	2.350		
30405	1.430		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22596
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22836 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 11

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
27600		2.180	2.160
27643	2.230		
27644	1.280		
27646	1.530		
27647	1.480		
27649	1.490		
27650		2.240	
27652	1.340		
27639	1.690		
27640	3.240		
27641	3.100		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22426
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22837 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 9

Designation	Cu	Cu-Dup	Ni
	AA1-8 %	AA1-8 %	AA1-8 %
	0.010	0.010	0.010
25343	1.350	1.350	
25344	1.710		
25346	1.490		
25347	1.610		
25348	1.390		
25350			2.140
29150			2.200
29191	1.590		
29195	1.670		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22867 Your order number : Project : SV-HDN Total number of samples : 59
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28497	<5	<5	<5	<5	18	16
28498	<5		<5		8	
28499	<5		<5		<5	
28500	47		102		140	
25308	125		<5		40	
25309	174		14		59	
25311	35		<5		11	
25312	11		<5		<5	
28511	<5		<5		<5	
28512	<5		<5		<5	
28513	18		<5		<5	
28514	94		<5		<5	
28515	<5	<5	<5	<5	<5	<5
28516	20		<5		<5	
28517	<5		<5		<5	
28518	59		11		115	
28519	15		10		42	
28520	224	216	393	410	3864	3893
28582	<5		<5		34	
28583	<5		<5		12	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22867 Your order number : Project : SV-HDN Total number of samples : 59
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28584	<5		<5		<5	
28585	<5		<5		<5	
28586	67		<5		<5	
28587	19		<5		24	
28588	12	13	<5	6	14	16
28589	41		9		43	
28590	228	221	385	397	3864	3923
28591	<5		<5		23	
29093	<5		<5		<5	
29094	<5		<5		<5	
29095	<5		<5		<5	
29096	<5		<5		<5	
29097	<5		<5		<5	
29098	<5		<5		<5	
29099	<5		<5		<5	
29100	49		100		149	
29101	<5	<5	<5	<5	<5	<5
29102	<5		<5		<5	
29123	<5		<5		<5	
30742	46		7		28	

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Laboratoire Expert Inc.

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 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22867 Your order number : Project : SV-HDN Total number of samples : 59

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30743	28		<5		22	
30744	65		6		40	
30745	40		<5		17	
30746	<5		<5		<5	
30747	<5		<5		<5	
30748	<5		<5		<5	
30749	192		12		126	
30750	45		106		146	
30751	48	44	<5	<5	17	17
30752	20		<5		<5	
30753	7		<5		<5	
30754	388		<5		<5	
30755	68		<5		69	
30756	<5		<5		<5	
30757	<5		<5		<5	
30758	<5		<5		<5	
30759	<5		<5		<5	
30760	<5		<5		<5	
30761	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22868 Your order number : Project : SV-HDN Total number of samples : 60
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30775	18	17	<5	<5	<5	<5	
30776	<5		<5		<5		
30777	<5		<5		<5		
30778	<5		<5		<5		
30779	<5		27		54		
30780	<5		<5		<5		
30781	<5		<5		<5		
30782	<5		9		7		
30783	17		<5		<5		
30784	62		<5		<5		2.77
30785	27		13		<5		
30786	81		12		14		
30787	94	102	44	40	57	63	2.93
30788	12		<5		<5		
30789	36		44		78		3.04
30790	229	216	400	387	3896	3836	
30791	97		58		113		
30792	<5		29		33		
30793	<5		26		17		2.85
30794	8		37		43		2.98



Joe Landers, Manager

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22868
	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 60

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30861	<5		<5		<5		
30862	<5		<5		<5		
30863	<5		10		17		
30864	13		<5		<5		
30865	<5	<5	25	22	34	36	
30866	<5		<5		49		
30867	12		6		7		
30868	10		<5		<5		
30869	<5		<5		<5		
30870	228	218	387	399	4000	3912	
30931	38		85		506		
30932	40		75		121		
30933	134		144		152		
30934	32		35		233		
30935	89		24		259		
30936	140		130		358		
30937	115	105	27	33	152	144	
30938	262	256	14	19	1172	1205	
30939	229		57		266		
30940	232	220	399	408	3988	3898	

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Laboratoire Expert Inc.

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22868 Your order number : Project : SV-HDN Total number of samples : 60
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30986	<5		<5		<5		
30987	<5		<5		<5		
30988	<5		<5		<5		
30989	<5		<5		<5		
30990	218	227	396	413	3848	3864	
30991	<5		<5		<5		
30992	<5		<5		<5		
30993	<5		<5		<5		
30994	<5	<5	35	40	125	132	
30995	<5		11		57		
51025	23		43		139		2.88
51026	37		<5		25		2.77
51027	36		<5		39		
51028	58		11		34		
51029	6		11		32		
51030	<5		<5		<5		
51031	33		<5		42		
51032	52		36		145		2.94
51033	72		78		552		3.62
51034	40		566		590		4.60

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22869
	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 84

Designation	Au FA-GRAV g/s 0.03	Au LCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LCP-1 ppb 5
24275		258	252	64	70	180	188
24276		919		25		97	
24277		188		50		136	
24278		226		57		923	
24279		971		210		592	
24280		<5		<5		<5	
24281		144		183		164	
24282		58		49		364	
24283		168		17		268	
24284	1.03	1005		166		400	
24285		92		12		21	
24286		23		<5		16	
24287		8	10	<5	<5	<5	<5
24288		59		<5		10	
24289		782		77		168	
24290		216	229	381	403	3741	3849
24291		99		<5		15	
24292		40		<5		<5	
24293		9		9		<5	
24294		<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22869
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 84

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
24295		<5		<5		<5	
24296		<5		<5		<5	
24297		<5		<5		<5	
24298		<5		<5		<5	
24966		124	136	28	30	59	61
24967		301		39		328	
24968		206		22		222	
24969		341		87		125	
24970		221	210	396	390	3783	3844
24971		165		50		174	
24972		34		<5		31	
24973		68		16		183	
24974		64		58		284	
24975		34		65		452	
24976	1.10	1070		94		214	
24977	2.64	2561		70		150	
24978		903	898	119	127	573	585
24979	1.03	1028		173		368	
24980		<5		<5		<5	
24981		<5		<5		<5	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22869
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 84

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
24982		<5		<5		<5	
24983		<5		<5		<5	
24984		<5		<5		<5	
28496		108		25		98	
24992		<5		<5		<5	
24993		<5		<5		<5	
24994		<5		<5		<5	
24995		<5		<5		<5	
24996		<5	<5	<5	<5	<5	<5
24997		<5		<5		<5	
24998		<5		<5		<5	
24999		<5		<5		<5	
25000		51		96		143	
28901		<5		<5		<5	
26493		59		50		220	
26494		16		30		155	
26495		65		<5		27	
26496		27		10		65	
26497		14		13		66	
26498		<5		<5		25	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22869 Your order number : Project : SV-HDN Total number of samples : 84
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
26499		18	21	<5	<5	20	24
26500		48		95		141	
26501		<5		<5		23	
26502		<5		<5		10	
26567		<5		<5		<5	
26568		<5		<5		<5	
26569		<5		<5		<5	
26570		210	222	398	391	4802	4841
26571		<5		<5		<5	
26572		<5		<5		<5	
26573		<5		<5		<5	
26574		<5		15		6	
26575		<5	<5	8	6	10	7
26576		<5		<5		<5	
26587		<5		<5		<5	
26588		<5		10		11	
26589		<5		6		8	
26590		----- I.NR		----- I.NR		----- I.NR	
26591		<5		8		9	
26592		<5		10		25	

I.NR Listed not received

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22869
	Your order number :
	Project : SV-HDN
	Total number of samples : 84

Designation	Au FA-GRAV g/s 0.03	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26593		<5		16		34	
26594		<5		11		16	
26595		<5		<5		<5	
26596		<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22870 Your order number : Project : SV-HDN Total number of samples : 110
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26617	32	31	24	26	549	571
26618	110		57		111	
26619	524		37		129	
26620	227	217	403	388	3856	3901
26621	131		75		198	
26622	50		62		497	
26623	79		35		95	
26624	182		16		72	
26625	80		27		207	
26626	98		40		114	
26773	<5		7		12	
26774	15		17		27	
26775	48	55	14	11	11	11
26776	5		22		39	
26777	12		22		45	
26778	8		31		66	
26779	<5		18		35	
26780	<5		<5		<5	
26781	9		23		25	
26782	<5		20		26	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22870 Your order number : Project : SV-HDN Total number of samples : 110
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26856	<5		<5		<5	
26857	15		<5		<5	
26858	<5		17		110	
26859	<5		<5		<5	
26860	<5	<5	<5	<5	<5	<5
26861	<5		<5		<5	
26862	<5		<5		<5	
26863	<5		<5		<5	
26864	<5		<5		<5	
26865	9		<5		<5	
26813	82		12		28	
26814	9		11		22	
26815	8		5		11	
26816	9		6		23	
26817	41		82		153	
26818	89		336		472	
26819	84	78	44	36	215	203
26820	226	214	383	399	3800	3866
26822	95		15		85	
26823	311		42		109	

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Laboratoire Expert Inc.

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 Rouyn-Noranda, Québec
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22870 Your order number : Project : SV-HDN Total number of samples : 110

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26907	29		187		187	
26908	<5		79		81	
26909	<5		140		83	
26910	<5		<5		<5	
26911	57		124		96	
26912	141		36		60	
26913	38		7		22	
26914	153		20		40	
26915	384	401	107	112	329	337
28495	14		212		164	
27904	<5		<5		<5	
27905	<5		<5		<5	
27906	<5		<5		<5	
27907	<5		<5		<5	
27908	<5		<5		<5	
27909	<5		<5		<5	
27910	<5		<5		<5	
27911	<5		<5		<5	
27912	<5		<5		<5	
27913	<5		<5		<5	

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22870 Your order number : Project : SV-HDN Total number of samples : 110
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27914	<5	<5	<5	<5	<5	<5
27915	<5		<5		<5	
27916	<5		<5		<5	
27917	<5		<5		<5	
27918	<5		<5		<5	
27919	<5		<5		<5	
27920	222	230	391	415	3792	3866
27921	<5		<5		<5	
27922	<5		<5		<5	
27923	<5		<5		<5	
27934	<5		<5		<5	
27935	<5		6		6	
27936	<5	<5	<5	<5	<5	<5
27937	<5		<5		<5	
27938	<5		<5		<5	
27939	<5		<5		<5	
27940	229	217	404	393	3872	3900
27941	<5		<5		<5	
27942	<5		12		5	
27943	<5		12		19	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22870 Your order number : Project : SV-HDN Total number of samples : 110

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27944	<5		<5		<5	
27945	<5		<5		<5	
27946	<5		11		8	
27947	<5		<5		<5	
27948	28	28	5	6	5	7
27949	<5		7		9	
27950	48		97		144	
27951	<5		22		47	
27952	<5		20		77	
27953	6		26		59	
28032	127		21		72	
28033	239		57		201	
28034	260		68		187	
28035	169		47		181	
28036	169		55		124	
28037	158		56		149	
28038	73	81	34	39	146	154
28039	47		9		83	
28040	219	229	378	396	3768	3844
28041	17		42		155	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22870 Your order number : Project : SV-HDN Total number of samples : 110
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28062	37		29		233	
28063	28		46		149	
28064	18		98		248	
28065	19		22		175	
28066	35		11		60	
28067	28		41		137	
28068	81		50		280	
28069	28		44		112	
28070	213	214	401	408	3764	3796
28071	22		31		81	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22872 Your order number : Project : SV-HDN Total number of samples : 82

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24643	<5	<5	<5	<5	<5	<5
24644	<5		<5		<5	
24645	<5		10		25	
24646	<5		<5		<5	
24647	<5		10		15	
24648	15		<5		<5	
24649	8		10		17	
24650	51		116		154	
24651	7		10		30	
24652	11		13		24	
24693	19		14		303	
24694	146		14		626	
24695	210	203	29	22	48	45
24696	110		9		26	
24697	<5		<5		<5	
24698	<5		<5		<5	
24699	<5		<5		<5	
24700	46		100		139	
24701	<5		<5		<5	
24702	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22872 Your order number : Project : SV-HDN Total number of samples : 82
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24703	<5		<5		<5	
24704	<5		<5		<5	
24705	<5		<5		<5	
24706	<5		<5		<5	
24707	<5	<5	<5	<5	<5	<5
24708	<5		<5		<5	
24709	<5		<5		<5	
24710	<5		<5		<5	
24711	<5		<5		<5	
24712	<5		<5		<5	
24713	<5		<5		<5	
24714	<5		<5		<5	
24946	61		39		115	
24947	75		61		165	
24948	18		13		72	
24949	48		20		123	
24950	50	46	98	98	140	146
24951	35		20		45	
24952	<5		<5		<5	
24953	<5		19		12	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22872 Your order number : Project : SV-HDN Total number of samples : 82
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24954	<5		28		22	
24955	<5		38		14	
26753	<5		<5		<5	
26754	<5		10		9	
26755	<5		28		22	
26756	<5		26		16	
26757	<5		49		40	
26758	13		33		28	
26759	<5	<5	<5	<5	<5	<5
26760	<5		<5		<5	
26761	<5		<5		<5	
26762	<5		<5		<5	
26886	<5		<5		79	
26887	<5		24		174	
26888	<5		<5		106	
26889	<5		38		151	
26890	223	230	406	392	3976	3897
26891	<5		<5		80	
26892	<5		158		428	
26893	<5		<5		126	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22872 Your order number : Project : SV-HDN Total number of samples : 82

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26894	<5	<5	<5	<5	20	21
26895	<5		<5		34	
26916	181		130		262	
26917	229		41		194	
26918	860		60		168	
26919	249		128		452	
26920	227	220	392	407	3832	3793
26921	151		74		211	
26922	316		98		210	
26923	283		61		217	
26924	910		94		293	
26925	178		23		98	
26926	137	141	45	43	111	107
26927	179		46		143	
26928	32		43		87	
26929	180		215		254	
26930	<5		<5		<5	
26931	596		45		398	
26932	202		92		202	
26933	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22872 Your order number : Project : SV-HDN Total number of samples : 82

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26934	<5		<5		<5	
26935	<5		<5		57	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22873 Your order number : Project : SV-HDN Total number of samples : 93
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27954	<5	<5	<5	<5	<5	<5
27955	<5		<5		<5	
27956	202		58		41	
27957	86		66		99	
27958	47		19		43	
27959	56		29		40	
27960	<5		<5		<5	
27961	287		79		130	
27962	40		43		92	
27963	<5		19		47	
27974	460		72		174	
27975	167		39		120	
27976	62	62	30	27	75	80
27977	58		14		18	
27978	<5		21		29	
27979	25		28		33	
27980	<5		<5		<5	
27981	43		37		59	
27982	<5		25		24	
27983	11		31		29	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22873 Your order number : Project : SV-HDN Total number of samples : 93
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28052	<5		39		88	
28053	7		54		100	
28054	<5		21		148	
28055	<5		20		52	
28056	<5	<5	11	10	38	36
28057	23		<5		312	
28058	13		<5		338	
28059	46		<5		220	
28060	<5		<5		<5	
28061	<5		<5		70	
28072	7		18		32	
28073	7		36		69	
28074	<5		<5		<5	
28075	<5		<5		<5	
28076	<5		<5		<5	
28077	<5		<5		<5	
28078	<5	<5	<5	<5	<5	<5
28079	<5		<5		<5	
28080	<5		<5		<5	
28081	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22873 Your order number : Project : SV-HDN Total number of samples : 93

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28602	<5		<5		<5	
28603	<5		<5		<5	
28604	<5		<5		<5	
28605	<5		<5		<5	
28606	<5		<5		<5	
28607	<5		<5		25	
28608	<5		<5		<5	
28609	<5		<5		<5	
28610	<5	<5	<5	<5	<5	<5
28611	<5		<5		<5	
28662	<5		<5		<5	
28663	<5		<5		<5	
28664	<5		<5		<5	
28665	<5		<5		<5	
28922	<5		17		12	
28923	<5		27		13	
28924	<5		29		13	
28925	<5		24		20	
28926	<5		<5		<5	
28927	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22873 Your order number : Project : SV-HDN Total number of samples : 93

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28928	<5	<5	<5	<5	<5	<5
28929	<5		<5		<5	
28930	<5		<5		<5	
28931	10		11		18	
28932	<5		20		26	
28933	<5		24		26	
28934	<5		14		20	
28935	<5		<5		<5	
28936	<5		<5		184	
28937	<5		<5		13	
28938	<5		<5		<5	
28939	<5		<5		<5	
28940	233	223	403	412	3844	3796
28991	<5		<5		<5	
28992	<5		<5		<5	
28993	<5		<5		<5	
28994	<5		<5		<5	
28995	<5		<5		<5	
28996	<5		<5		<5	
28997	<5		10		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22873 Your order number : Project : SV-HDN Total number of samples : 93
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28998	<5		9		<5	
28999	<5		<5		<5	
29000	49		94		148	
30618	<5		<5		<5	
30619	<5	<5	<5	<5	<5	<5
30620	208	220	411	397	3920	3860
30621	<5		<5		<5	
30622	<5		<5		<5	
30623	<5		<5		<5	
30624	<5		<5		<5	
30625	<5		<5		<5	
30626	<5		<5		<5	
30627	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22874 Your order number : Project : SV-HDN Total number of samples : 56
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30638		<5	<5	<5	<5	<5	<5	
30639		<5		<5		65		
30640		232	221	401	411	3896	3821	
30641		<5		<5		<5		
30642		<5		<5		<5		
30643		<5		<5		<5		
30644		<5		<5		<5		
30645		<5		<5		16		
30646		<5		<5		31		
30647		<5		<5		<5		
30658		<5		<5		<5		
30659		12		10		55		
30660		<5	<5	<5	<5	<5	<5	
30661		98		16		73		
30662		51		<5		<5		
30663		<5		<5		<5		
30664	2.91	3080		<5		35		
30665		<5		<5		<5		
30666		12		<5		<5		
30667		<5		<5		<5		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22874 Your order number : Project : SV-HDN Total number of samples : 56
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30851		625		<5		<5		
30852		102		<5		<5		
30853		82		<5		<5		
30854		599		<5		<5		
30855		84	80	<5	<5	<5	<5	
30856		91		<5		<5		
30857		<5		<5		<5		
30858		<5		<5		<5		
30859		<5		<5		<5		
30860		<5		<5		<5		
30941		56		48		449		
30942		15		173		700		
30943		<5		51		531		
30944		<5		<5		<5		
30945		<5		<5		<5		
30946		<5		<5		<5		
30947		<5	<5	<5	<5	<5	<5	
30948		<5		<5		<5		
30949		<5		<5		<5		
30950		49		102		149		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22874 Your order number : Project : SV-HDN Total number of samples : 56
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LCP-1 ppb 5	Spec. Grav. DEN-1 ...
51005		31		50		128		
51006		94		119		234		3.12
51007		461		97		262		3.10
51008		371		82		122		3.06
51009		109		68		135		3.03
51010		<5		<5		<5		
51011		504		133		281		
51012		443		113		147		3.01
51013		412	422	58	65	89	93	3.01
51014		266		297		81		3.06
51045		11		<5		<5		
51046		<5		<5		<5		
51047		<5		<5		<5		
51048		<5		<5		<5		
51049		<5		<5		<5		
51050		50		95		143		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22897 Your order number : Project : SV-HDN Total number of samples : 101
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
24663		119	110	52	54	171	166
24664		168		38		93	
24665		255		95		298	
24666		148		50		113	
24667		63		65		165	
24668		45		57		99	
24669		96		38		108	
24670		218	227	389	401	3832	3857
24671		12		14		<5	
24672		6		33		10	
24985		<5		<5		<5	
24986		<5		20		8	
24987		7	5	27	23	16	16
24988		<5		<5		<5	
24989		6		10		14	
24990		217	223	393	402	3851	3836
24991		<5		10		10	
26844		73		14		13	
26845		6		7		12	
26846		<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22897
	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 101

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
26513		723		10		23	
26514		295		24		50	
26515		151		<5		<5	
26516		23		<5		50	
26517		448	462	59	61	82	86
26518		62		<5		<5	
26519		22		<5		<5	
26520		220	213	391	407	3848	3788
26521		<5		<5		<5	
26522		<5		<5		<5	
26533		<5		<5		<5	
26534		<5		<5		<5	
26535		51		47		125	
26536		762		142		294	
26537		66		<5		180	
26538		<5		144		518	
26539		44	48	242	266	1124	1070
26540		225	218	404	390	3696	3741
26541		96		36		884	
26542		19		<5		163	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22897 Your order number : Project : SV-HDN Total number of samples : 101
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LCP-1 ppb 5
26557	<5	<5		<5		<5	
26558	<5	<5		<5		<5	
26559	<5	<5		<5		<5	
26560	<5	<5		<5		<5	
26561	<5	<5		31		63	
26562	<5	<5		<5		<5	
26563	<5	<5		16		7	
26564	<5	<5		<5		<5	
26565	20		20	<5	<5	<5	5
26566	<5	<5		<5		<5	
26577	<5	<5		<5		<5	
26578	<5	<5		<5		<5	
26579	<5	<5		<5		<5	
26580	<5	<5		<5		<5	
26581	<5	<5		12		10	
26582	<5	<5		<5		<5	
26583	<5	<5		10		15	
26584	<5	<5		14		16	
26585	<5	<5		<5		<5	
26586	<5	<5		6		12	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22897
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 101

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
26607		6	9	23	20	30	33
26608		8		21		20	
26609		<5		<5		<5	
26610		<5		<5		<5	
26611		5		19		10	
26612		92		49		102	
26613		11		77		103	
26614		106		103		121	
26615		89		215		166	
26616		35		44		60	
26637		108		92		111	
26638		77		91		130	
26639		160	152	40	44	193	186
26640		226	219	408	410	3792	3806
26641		210		184		70	
26642		405		86		144	
26643		<5		26		238	
26644		214		40		121	
26645	1.10	1030		35		167	
26646		994		36		207	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
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Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 101

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
26647		960		44		284	
26648		222		112		214	
26649		276		58		127	
26650		53		104		140	
26651		528	517	82	76	154	142
26652		215		30		23	
26653		19		13		<5	
26654		21		<5		<5	
26655		<5		<5		<5	
26656		<5		<5		<5	
26657		92		<5		<5	
26803		<5		<5		16	
26804		<5		<5		31	
26805		31		35		100	
26806		<5		36		73	
26807		117		84		123	
26808		161	154	34	38	180	172
26809		<5		<5		<5	
26810		<5		<5		<5	
26811		140		39		74	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22897 Your order number : Project : SV-HDN Total number of samples : 101

Designation	Au FA-GRAV g/t 0.03	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26812		67		50		85	

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Laboratoire Expert Inc.

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 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22898 Your order number : Project : SV-HDN Total number of samples : 92
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26847	14	11	22	18	8	8
26848	7		21		9	
26849	8		20		8	
26850	53		98		141	
26851	9		<5		<5	
26852	<5		<5		<5	
26853	<5		<5		<5	
26854	<5		<5		<5	
26855	<5		20		10	
29124	<5		<5		<5	
29125	<5		<5		<5	
26936	<5		<5		<5	
26937	<5	<5	<5	<5	<5	<5
26938	<5		<5		<5	
26939	<5		<5		<5	
26940	213	221	389	403	3796	3844
26941	<5		<5		<5	
26942	<5		24		15	
26943	<5		<5		<5	
26944	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22898 Your order number : Project : SV-HDN Total number of samples : 92
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26945	<5		<5		<5	
27894	5		64		66	
27895	8		45		111	
27896	13		99		189	
27897	13	10	<5	<5	<5	<5
27898	17		38		10	
27899	142		30		14	
27900	54		105		149	
27901	<5		<5		<5	
27902	5		27		18	
27903	<5		<5		<5	
27924	7		10		14	
27925	6		11		13	
27926	<5		7		11	
27927	8		10		15	
27928	7		<5		<5	
27929	10	10	17	15	24	20
27930	<5		<5		<5	
27931	<5		<5		<5	
27932	<5		<5		<5	

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Laboratoire Expert Inc.

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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22898 Your order number : Project : SV-HDN Total number of samples : 92
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
27933	<5		<5		<5	
28011	28		<5		<5	
28012	90		10		20	
28013	134		<5		40	
28014	14		<5		<5	
28015	<5		17		21	
28016	<5		<5		<5	
28017	<5		<5		<5	
28018	<5	<5	<5	<5	<5	<5
28019	7		20		38	
28020	209	218	387	399	3946	3887
28021	16		25		101	
28042	134		<5		110	
28043	52		<5		99	
28044	37		10		133	
28045	10		<5		78	
28046	14		13		56	
28047	35		<5		81	
28048	12		<5		30	
28049	16		<5		102	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22898 Your order number : Project : SV-HDN Total number of samples : 92
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28050	51	47	102	98	148	142
28051	<5		<5		66	
28572	<5		<5		<5	
28573	<5		<5		<5	
28574	<5		<5		<5	
28575	<5		<5		<5	
28576	<5		<5		<5	
28577	<5		<5		<5	
28578	<5		<5		<5	
28579	<5		<5		<5	
28580	<5		<5		<5	
28581	<5		<5		<5	
28592	<5	<5	<5	<5	<5	<5
28593	<5		<5		10	
28594	<5		<5		<5	
28595	27		<5		<5	
28596	<5		<5		<5	
28597	<5		<5		<5	
28598	<5		<5		<5	
28599	<5		<5		<5	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22898 Your order number : Project : SV-HDN Total number of samples : 92
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28600	47		96		141	
28601	<5		<5		<5	
28612	<5		<5		<5	
28613	<5		<5		<5	
28614	<5	<5	<5	<5	<5	<5
28615	<5		<5		<5	
28616	7		<5		<5	
28617	10		<5		20	
28618	14		<5		24	
28619	44		<5		86	
28620	215	219	405	396	3851	3805
28621	46		<5		103	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22899 Your order number : Project : SV-HDN Total number of samples : 80

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28652	<5	<5	<5	<5	<5	<5
28653	<5		<5		<5	
28654	<5		<5		<5	
28655	<5		<5		<5	
28656	<5		<5		<5	
28657	<5		<5		<5	
28658	<5		<5		<5	
28659	<5		<5		<5	
28660	<5		<5		<5	
28661	<5		<5		<5	
28951	<5		<5		<5	
28952	<5		<5		<5	
28953	<5	<5	<5	<5	<5	<5
28954	<5		<5		<5	
28955	<5		<5		<5	
28956	9		<5		43	
28957	18		15		82	
28958	12		<5		63	
28959	29		18		75	
28960	<5		<5		<5	



Joe Landers, Manager

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22899 Your order number : Project : SV-HDN Total number of samples : 80
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28961	63		38		127	
28962	43		50		98	
28963	15		42		114	
28964	66		29		282	
28965	7	5	79	80	68	72
28966	12		32		95	
28967	36		42		152	
28968	30		72		156	
28969	32		36		78	
28970	223	229	492	512	3712	3799
28971	<5		<5		<5	
28972	<5		<5		<5	
28973	<5		<5		<5	
28974	24		<5		26	
28975	<5		<5		<5	
28976	749		28		89	
28977	134	128	15	18	46	42
28978	477		47		134	
28979	154		57		107	
28980	<5		<5		<5	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22899
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 80

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28981	<5		<5		<5	
28982	<5		<5		<5	
28983	<5		<5		<5	
28984	<5		<5		<5	
28985	<5		<5		<5	
28986	<5		<5		<5	
28987	<5		<5		<5	
28988	<5		<5		<5	
28989	<5	<5	<5	<5	<5	<5
28990	218	221	404	414	3914	3887
29013	<5		<5		<5	
29014	14		<5		<5	
29015	56		16		23	
29016	30		17		22	
29017	12		14		51	
29018	40		<5		24	
29019	71		29		36	
29020	216	220	405	396	3779	3811
29021	<5		<5		<5	
29022	82		20		27	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22899 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
29043	15	17	60	64	120	124
29044	10		23		17	
29045	41		38		58	
29046	54		84		151	
29047	104		37		55	
29048	21		82		75	
29049	18		32		34	
29050	51		100		135	
29051	239		10		40	
29052	502		181		193	
29062	<5		<5		<5	
29063	<5		<5		<5	
29064	<5	<5	<5	<5	<5	<5
29065	<5		<5		<5	
29066	42		20		46	
29067	17		<5		<5	
29068	43		12		27	
29069	<5		<5		<5	
29070	217	224	403	396	3880	3814
29072	<5		<5		<5	

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Laboratoire Expert Inc.

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 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22900
	Your order number :
	Project : SV-HDN
	Total number of samples : 57

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30608	9	9	9	6	90	97	
30609	20		<5		80		
30610	<5		<5		<5		
30611	30		<5		14		
30612	12		<5		<5		
30613	20		<5		<5		
30614	19		<5		<5		
30615	20		<5		<5		
30616	<5		<5		<5		
30617	11		<5		<5		
30668	<5		<5		<5		
30669	<5		<5		<5		
30670	218	227	393	410	3803	3880	
30671	<5		<5		<5		
30672	104		24		112		
30673	255		26		51		
30674	83		12		75		
30675	235		36		151		
30676	217		173		244		
30677	52		56		92		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22900 Your order number : Project : SV-HDN Total number of samples : 57

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30688	179		<5		270		
30689	<5		<5		<5		
30690	226	220	393	407	3854	3886	
30691	<5		<5		<5		
30692	<5	<5	<5	<5	<5	<5	
30693	<5		<5		<5		
30694	<5		<5		<5		
30695	23		<5		25		
30696	12		30		40		
30697	<5		<5		<5		
30881	<5		<5		<5		
30882	23		<5		<5		
30883	105		<5		<5		
30884	9		<5		<5		
30885	<5		<5		<5		
30886	<5		<5		<5		
30887	<5	<5	<5	<5	<5	<5	
30888	<5		<5		<5		
30889	<5		<5		<5		
30890	205	219	405	413	3833	3794	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22900 Your order number : Project : SV-HDN Total number of samples : 57
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30961	<5		<5		<5		
30962	<5		<5		<5		
30963	15		24		<5		
30964	<5		<5		<5		
30965	<5		<5		<5		
30966	<5		35		16		
30967	<5		30		26		
51035	177	182	190	198	1249	1316	
51036	43	39	46	44	445	431	
51037	382		262		575		3.11
51038	320	324	100	103	1613	1642	
51039	188		141		438		3.22
51040	230	221	396	407	3918	3888	
51041	214		13		223		
51042	281	276	24	32	1069	1044	2.92
51043	509		<5		41		2.72
51044	378		<5		<5		3.58

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22902 Your order number : Project : SV-HDN Total number of samples : 70
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
28531		10	10	33	28	14	11
28532		42		27		19	
28533		231		30		24	
28534		24		35		36	
28535		17		47		42	
28536		28		32		38	
28537		27		57		42	
28538		15		44		34	
28539		<5		<5		<5	
28540		221	229	401	410	3741	3821
28541		10		6		10	
28542		<5		<5		<5	
28543		<5	<5	<5	<5	<5	<5
28544		<5		<5		<5	
28545		<5		<5		<5	
28546		<5		<5		<5	
28547		<5		<5		<5	
28548		<5		<5		<5	
28549		<5		<5		<5	
28550		<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22902 Your order number : Project : SV-HDN Total number of samples : 70
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
28622		196		25		112	
28623		90		36		59	
28624		67		43		76	
28625		280		84		125	
28626		124	136	59	64	171	168
28627		74		39		70	
28628		272		49		130	
28629		388		137		309	
28630		<5		<5		<5	
28631		215		63		174	
28632		64		82		152	
28633		516		89		335	
28634		85		72		163	
28635		84		44		105	
28636		125		46		279	
28637		997		28		223	
28638	1.10	1124	1089	37	30	115	120
28639		544		38		216	
28640		220	227	414	401	3836	3799
28641		109		40		78	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22902 Your order number : Project : SV-HDN Total number of samples : 70
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
28642		332		94		100	
28643		<5		<5		<5	
28644		29		<5		<5	
28645		<5		<5		<5	
28646		<5		<5		<5	
28647		<5		<5		<5	
28648		<5		<5		<5	
28649		8		15		8	
28650		46	51	99	103	146	141
28651		<5		<5		<5	
29053		446		31		69	
29054		342		42		69	
29055		239		49		68	
29056		89		<5		<5	
29057		212		24		19	
29058		<5		<5		<5	
29059		<5		<5		<5	
29060		<5		<5		<5	
29061		<5		<5		<5	
29071		211		<5		<5	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22902 Your order number : Project : SV-HDN Total number of samples : 70
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
29073		<5	<5	<5	<5	<5	<5
29074		<5		<5		<5	
29075		<5		<5		<5	
29076		<5		<5		<5	
29077		<5		<5		<5	
29078		<5		<5		<5	
29079		29		24		162	
29080		<5		<5		<5	
29081		95		<5		630	
29082		110		<5		467	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22903 Your order number : Project : SV-HDN Total number of samples : 65
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30189		<5	<5	<5	<5	<5	<5
30190		228	216	418	390	3930	3862
30191		<5		<5		<5	
30192		8		158		170	
30193		67		38		188	
30194		11		41		141	
30195		<5		<5		<5	
30196		<5		<5		<5	
30197		<5		34		111	
30198		<5		<5		<5	
30628		65		<5		<5	
30629		18		27		22	
30630		224	236	414	390	3981	3845
30631		52		23		23	
30632		478		35		62	
30633	1.20	1192		139		282	
30634		65		36		26	
30635		29		21		18	
30636		67		35		37	
30637		45		14		12	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22903 Your order number : Project : SV-HDN Total number of samples : 65
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
30951		<5		<5		<5	
30952		<5		<5		<5	
30953		<5		<5		<5	
30954		<5		31		30	
30955		<5	<5	<5	<5	<5	<5
30956		<5		<5		<5	
30957		<5		<5		<5	
30958		<5		<5		<5	
30959		<5		<5		<5	
30960		<5		<5		<5	
30901		<5		9		6	
30902		<5		16		14	
30903		<5		12		9	
30904		<5		<5		<5	
30905		<5		7		10	
30906		102		<5		44	
30907		8	6	41	36	26	28
30908		<5		40		20	
30910		<5		<5		<5	
30722		49		23		31	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22903
	Your order number : Project : SV-HDN
	Total number of samples : 65

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup LDCP-1 ppb 5	Pt LDCP-1 ppb 5	Pt-Dup LDCP-1 ppb 5	Pd LDCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
30723		<5		10		16	
30724		113		39		51	
30725		25		25		56	
30726		<5		<5		<5	
30727		<5		21		16	
30728		<5		<5		<5	
30729		<5		8		8	
30730		<5		<5		<5	
30731		33	36	47	54	74	69
30698		<5		<5		<5	
30700		48		105		144	
30701		<5		<5		<5	
30702		<5		<5		<5	
30703		<5		<5		<5	
N#1		<5		<5		<5	
30648		7		604		488	
30649		14		687		683	
30650		49		106		134	
30651		832		254		462	
30652		566		101		187	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22903 Your order number : Project : SV-HDN Total number of samples : 65

Designation	Au FA-GRAV g/g 0.03	Au LCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LCP-1 ppb 5
30653		908	887	103	113	140	134
30654		307		87		94	
30655		133		91		96	
30656		869		61		107	
30657		197		62		26	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22918 Your order number : Project : SV-HDN Total number of samples : 80

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26763	<5	<5	<5	<5	<5	<5
26764	<5		<5		<5	
26765	<5		<5		<5	
26766	<5		<5		<5	
26767	<5		<5		<5	
26768	<5		<5		<5	
26769	<5		<5		<5	
26770	210	222	409	389	3796	3751
26771	<5		<5		<5	
26772	<5		<5		<5	
29103	<5		<5		<5	
29104	<5		<5		<5	
29105	<5	<5	<5	<5	<5	<5
29106	<5		<5		76	
29107	<5		<5		<5	
29108	<5		<5		<5	
29109	<5		<5		<5	
29110	<5		<5		<5	
29111	<5		<5		<5	
29112	<5		19		6	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22918 Your order number : Project : SV-HDN Total number of samples : 80
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30911	6		11		8	
30912	7		29		11	
30913	23		19		33	
30914	21		67		87	
30915	41	36	50	48	126	124
30916	58		65		167	
30917	60		55		168	
30918	54		16		103	
30919	68		55		136	
30920	204	212	390	401	3768	3801
29033	20		<5		<5	
29034	40		<5		<5	
29035	266		143		167	
29036	243		14		36	
29037	109		15		27	
29038	109		34		40	
29039	195	197	10	7	91	98
29040	203	216	380	391	3680	3718
29041	43		12		36	
29042	46		<5		100	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22918 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26503	<5		<5		<5	
26504	210		39		82	
26505	39		19		26	
26506	30		42		78	
26507	34		<5		<5	
26508	204		46		63	
26509	211		48		103	
26510	55		<5		<5	
26511	<5	<5	<5	<5	<5	<5
26512	105		<5		33	
24915	<5		<5		<5	
24916	<5		11		6	
24917	<5		<5		<5	
24918	<5		<5		<5	
24919	<5		17		126	
24920	226	213	404	391	3752	3729
24921	<5		<5		<5	
24922	36		<5		<5	
24923	12		<5		<5	
24924	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22918 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30871	<5	<5	<5	<5	<5	<5
30872	<5		17		53	
30873	<5		10		8	
30874	<5		19		24	
30875	<5		10		8	
30876	<5		35		21	
30877	<5		24		16	
30878	<5		19		12	
30879	<5		14		12	
30880	<5		<5		<5	
27984	<5		6		7	
27985	<5		<5		<5	
27986	<5	<5	<5	<5	<5	<5
27987	7		11		22	
27988	<5		17		39	
27989	<5		<5		277	
27990	202	209	392	401	3808	3777
27991	71		40		114	
27992	24		168		286	
27993	53		19		287	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22919 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26896	67	62	<5	5	31	33
26897	73		23		25	
26898	38		147		290	
26899	12		26		100	
26900	54		89		136	
26901	9		68		158	
26902	34		61		204	
26903	118		59		127	
26904	157		150		406	
26906	101		80		107	
29113	<5		<5		<5	
29114	<5		<5		<5	
29115	10	8	40	34	33	24
29116	17		9		15	
29117	<5		<5		<5	
29118	<5		18		15	
29119	<5		32		23	
29120	212	219	401	411	3704	3751
29121	<5		<5		<5	
29122	<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22919 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
29083	68		<5		664	
29084	86		<5		664	
29085	<5		<5		52	
29086	<5		<5		<5	
29087	<5	<5	<5	<5	272	282
29088	<5		<5		<5	
29089	<5		<5		<5	
29090	<5		<5		<5	
29091	<5		<5		<5	
29092	<5		<5		<5	
28902	<5		<5		<5	
28903	<5		<5		<5	
28904	<5		<5		<5	
28905	<5		<5		<5	
28906	<5		<5		<5	
28907	<5		<5		<5	
28908	<5	<5	<5	<5	<5	<5
28909	<5		<5		<5	
28910	<5		<5		<5	
28911	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22919 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24956	<5		10		9	
24957	<5		<5		<5	
24958	<5		16		20	
24959	<5		<5		<5	
24960	79		22		69	
24961	130		71		130	
24962	136		77		150	
24963	15		27		50	
24964	158	146	34	34	76	70
24965	106		28		162	
24633	<5		8		30	
24634	<5		<5		<5	
24635	<5		<5		<5	
24636	<5		10		8	
24637	<5		<5		<5	
24638	9		<5		18	
24639	17		25		28	
24640	213	206	384	373	3800	3753
24641	13		13		23	
24642	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22919 Your order number : Project : SV-HDN Total number of samples : 90
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30968	<5	<5	<5	<5	<5	<5
30969	<5		<5		<5	
30970	223	217	402	392	3736	3705
30971	<5		<5		<5	
30972	<5		<5		<5	
30973	<5		<5		<5	
30974	<5		<5		<5	
30975	<5		<5		<5	
24299	<5		<5		<5	
24300	48		89		147	
24245	65		105		264	
24246	33		56		204	
24247	75	81	49	48	87	80
24248	186		61		135	
24249	69		47		55	
24250	50		96		143	
24251	149		100		97	
24252	65		84		121	
24253	41		44		59	
24254	<5		<5		<5	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22919 Your order number : Project : SV-HDN Total number of samples : 90
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28551	<5		54		28	
28552	<5		49		202	
28553	60		24		147	
28554	61		53		92	
28555	<5	<5	<5	<5	<5	<5
28556	<5		<5		<5	
28557	<5		<5		<5	
28558	<5		20		30	
28559	<5		<5		<5	
28560	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22423
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22920 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 6

Designation	Cu AAI-8 %	Ni AAI-8 %	Ni-Dup AAI-8 %
	0.010	0.010	0.010
27026		1.910	1.890
27027	1.500		
27028	1.410		
27038	1.910		
27047	1.260		
27050		2.270	2.310



Joe Landers, Manager

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder 22422
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22921 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 9

Designation	Cu	Ni	Ni-Dup
	AA1-8 %	AA1-8 %	AA1-8 %
	0.010	0.010	0.010
26400		2.300	2.280
26469	1.550		
26471	1.390		
26473	1.770		
26474	4.750		
26475	2.030		
26476	1.460		
26478	1.510		
26479	1.290		



Joe Landers, Manager

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22602
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22922 Your order number : Project : SV-HDN Total number of samples : 2
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Ni AAE-8 %	Ni-Dup AAI-8 %
	0.010	0.010
27750	2.350	2.410
27550	2.380	2.350



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22923 Your order number : Project : SV-HDN Total number of samples : 96
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
26976		<5	<5	<5	<5	<5	<5	
26977		<5		<5		<5		
26978		9		<5		<5		
26979		<5		<5		<5		
26980		<5		<5		<5		
26981		<5		<5		<5		
26597		<5		10		17		
26598		10		<5		20		
26599		<5		<5		<5		
26600		47		96		149		
26601		<5		<5		<5		
26602		<5		<5		<5		
26603		<5	<5	<5	<5	<5	<5	
26604		7		21		38		
26605		<5		<5		<5		
26606		9		8		57		
30732		9		37		76		
30733		16		<5		72		
30734		8		8		305		
30735		39		<5		247		



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22923
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 96

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
30736		47		<5		62		
30737		122		19		367		
30738		46		<5		<5		
30739		32		<5		<5		
30740		213	206	374	369	3840	3799	
30741		48		<5		<5		
24215		6		40		32		
24216		<5		54		28		
24217		<5		34		17		
24218		10		30		20		
24219		14		22		15		
24220		208	201	368	364	3832	3791	
24221		<5		14		17		
24222		<5		7		7		
24223		<5		<5		<5		
24224		<5		<5		<5		
24673		<5	<5	<5	<5	<5	<5	
24674		<5		<5		89		
24675		<5		<5		68		
24676		79		<5		114		

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22923
	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 96

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
24677		61		<5		100		
24678		129		<5		114		
24679		76		<5		232		
24680		<5		<5		<5		
24681		112		59		364		
24682		<5		<5		<5		
26793		<5		<5		<5		
26794		<5		<5		<5		
26795		<5	<5	<5	<5	<5	<5	
26796		<5		<5		<5		
26797		<5		<5		<5		
26798		<5		25		10		
26799		<5		<5		<5		
26800		50		89		134		
26801		<5		<5		<5		
26802		<5		<5		<5		
27964		<5		<5		<5		
27965		<5		<5		<5		
27966		180		76		153		
27967		21		77		90		

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Laboratoire Expert Inc.

127, Boulevard Industriel
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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22923
	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 96

Designation	Au FA-GRAV g/s 0.03	Au LCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LCP-1 ppb 5	Spec. Grav. DEN-1 ... 0.00
27968		315	332	99	108	238	246	
27969	1.85	1740		72		213		
27970		203	199	364	373	3760	3794	
27971	1.51	1424		95		203		
27972	0.96	949		76		168		
27973		54		48		32		
28941		<5		<5		<5		
28942		<5		<5		<5		
28943		<5		<5		<5		
28944		<5		<5		<5		
28945		<5		<5		<5		
28946		<5		<5		<5		
28947		<5	<5	<5	<5	<5	<5	
28948		<5		<5		<5		
28949		<5		<5		<5		
28950		46		92		140		
51001		86		84		190		3.17
51002		49		90		140		
51003		688		219		532		
51004		80		124		507		3.07

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22923
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 96

Designation	Au FA-GRAV g%	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5	Spec. Grav. DEN-1 ...
	0.03							0.00
30795		42		22		56		3.10
30796		73		47		98		3.07
30797		17		38		141		3.03
30798		419		65		153		3.20
30799	1.58	1397	1408	147	136	509	489	3.25
30800		45		91		146		
51015		131		30		88		3.08
51016		74		111		68		3.02
51017		21		96		242		3.07
51018		26		29		220		2.93
51019		24		62		302		3.82
51020		220	225	368	371	3760	3794	
51021		29		43		161		3.21
51022		101		48		152		2.96
51023		87		55		260		2.96
51024		47		37		76		3.13

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22924 Your order number : Project : SV-HDN Total number of samples : 87
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au FA-GRAV g/s 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
27994		<5	<5	<5	<5	512	526
27995		26		56		478	
27996		65		15		563	
27997		105		<5		48	
27998		9		33		81	
27999		<5		<5		<5	
28000		49		95		140	
28501		143		<5		<5	
28502		<5		<5		<5	
28503		39		30		22	
28504		9		20		15	
28505		29		47		27	
28506		<5	<5	<5	<5	<5	<5
28507		19		<5		<5	
28508		95		24		31	
28509		<5		<5		<5	
28510		<5		<5		<5	
28912		15		<5		<5	
28913		<5		<5		<5	
28914		<5		<5		<5	



Joe Landers, Manager

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22924
	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 87

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
28915		12		9		7	
28916		<5		<5		<5	
28917		<5		<5		<5	
28918		<5		<5		<5	
28919		<5	<5	<5	<5	<5	<5
28920		224	232	410	412	3736	3771
28921		<5		9		24	
24225		<5		<5		<5	
24226		<5		<5		<5	
24227		<5		<5		<5	
24228		<5		<5		<5	
24229		<5		<5		<5	
24230		<5		<5		<5	
24231		<5		<5		<5	
24232		<5		<5		<5	
24233		<5		<5		<5	
24234		<5	<5	<5	<5	<5	<5
28561		<5		<5		<5	
28562		<5		<5		<5	
28563		<5		<5		<5	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22924
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 87

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
28564		<5		<5		<5	
28565		<5		<5		<5	
28566		<5		<5		<5	
28567		<5		<5		<5	
28568		<5		<5		<5	
28569		<5		<5		<5	
28570		226	209	398	384	3744	3701
28571		<5		<5		<5	
24255		269	269	65	58	112	111
24256		182		170		160	
24257		215		108		155	
24258		240		122		371	
24259		286		105		159	
24260		<5		<5		<5	
24261		81		29		46	
24262		177		337		157	
24263		662		27		116	
24264		634		42		144	
24683		58		<5		<5	
24684		84		108		306	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 22924
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 87

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
24685		<5	<5	<5	<5	<5	<5
24686		<5		<5		<5	
24687		<5		<5		<5	
24688		10		10		43	
24689		37		44		63	
24690		202	214	402	413	3736	3781
24691		51		49		150	
24692		30		<5		<5	
26834		<5		<5		<5	
26835		<5		<5		<5	
26836		288		19		113	
26837		810		44		778	
26838		443	434	7	6	99	99
26839	1.10	1124		100		188	
26840		206	211	394	401	3738	3763
26841		148		41		60	
26842		120		47		89	
26843		118		40		39	
30678		208		50		250	
30679		92		29		45	

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Laboratoire Expert Inc.

127, Boulevard Industriel
 Rouyn-Noranda, Québec
 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22924 Your order number : Project : SV-HDN Total number of samples : 87
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au FA-GRAV g/g 0.03	Au LDCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup LDCP-1 ppb 5
30680		<5		<5		<5	
30681		44		88		330	
30682		22		22		368	
30683		100		70		428	
30685		566	544	80	80	352	360
30686		254		50		136	
30687		64		32		124	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22925 Your order number : Project : SV-HDN Total number of samples : 74

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26824	28	23	966	976	860	888
26825	63		45		164	
26826	34		37		111	
26827	22		16		37	
26828	59		35		109	
26829	<5		<5		<5	
26830	<5		<5		<5	
26831	<5		<5		<5	
26832	<5		<5		<5	
26833	<5		<5		<5	
30891	11		20		22	
30892	<5		<5		<5	
30893	18	18	12	13	20	18
30894	<5		<5		<5	
30895	<5		10		10	
30896	<5		<5		<5	
30897	<5		<5		<5	
30898	<5		<5		<5	
30899	<5		<5		<5	
30900	46		90		142	



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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22925 Your order number : Project : SV-HDN Total number of samples : 74
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26946	<5		<5		<5	
26947	<5		<5		<5	
26948	<5		<5		<5	
26949	<5		<5		<5	
26950	55	49	93	98	143	150
26951	<5		<5		<5	
26952	<5		<5		<5	
26953	<5		<5		<5	
26954	<5		<5		<5	
26955	<5		<5		<5	
29003	16		191		645	
29004	<5		<5		<5	
29005	9		33		97	
29006	<5		<5		<5	
29007	<5		<5		<5	
29008	<5		19		11	
29009	<5	<5	<5	<5	<5	<5
29010	<5		<5		<5	
29011	15		12		11	
29012	<5		<5		<5	

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22925 Your order number : Project : SV-HDN Total number of samples : 74

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24235	<5		<5		<5	
24236	561		63		132	
24237	883		95		175	
24238	27		24		18	
24239	<5		<5		<5	
24240	227	219	396	387	3840	3806
24241	21		48		86	
24242	52		67		201	
24243	56	51	37	38	95	105
24244	326		<5		104	
29023	<5		<5		<5	
29024	<5		<5		<5	
29025	<5		<5		<5	
29026	<5		<5		<5	
29027	<5		<5		<5	
29028	<5		<5		<5	
29029	80		<5		<5	
29030	<5		<5		<5	
29031	<5		<5		<5	
29032	<5		<5		<5	

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22925 Your order number : Project : SV-HDN Total number of samples : 74
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26543	<5	<5	<5	<5	<5	<5
26544	<5		<5		<5	
26545	17		<5		<5	
26546	<5		<5		<5	
26523	<5		<5		<5	
26524	<5		<5		<5	
26525	<5		<5		<5	
26526	<5		<5		<5	
26527	<5		<5		<5	
26528	<5		<5		<5	
26529	73		48		147	
26530	<5		<5		<5	
26531	76	68	<5	<5	22	18
26532	<5		<5		<5	

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22926 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100	
Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
30712	<5	<5	<5	<5	<5	<5
30713	<5		<5		<5	
30714	<5		<5		<5	
30715	<5		<5		<5	
30716	20		<5		<5	
30717	23		<5		<5	
30718	<5		<5		<5	
30719	55		<5		<5	
30720	223	214	378	364	3776	3740
30721	56		13		16	
30996	24		116		201	
30997	<5		10		93	
30998	<5	<5	15	21	132	126
30999	<5		<5		63	
31000	49		97		138	
29001	10		38		192	
29002	35		173		408	
24653	<5		10		56	
24654	12		<5		31	
24655	<5		<5		<5	



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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22926 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24656	<5		<5		<5	
24657	22		<5		47	
24658	88		36		104	
24659	94		15		102	
24660	<5	<5	<5	<5	<5	<5
24661	81		5		99	
24662	26		30		82	
30762	<5		<5		<5	
30763	<5		<5		<5	
30764	<5		<5		<5	
30765	<5		<5		<5	
30766	<5		<5		<5	
30767	<5		<5		<5	
30768	<5		<5		<5	
30769	<5		<5		<5	
30770	218	213	388	379	3796	3769
30771	<5	<5	17	14	7	5
30772	<5		<5		<5	
30773	<5		25		15	
30774	<5		14		7	

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Laboratoire Expert Inc.

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22926 Your order number : Project : SV-HDN Total number of samples : 80
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24925	<5		<5		<5	
24927	16		35		30	
24928	<5		15		36	
24929	7		24		30	
24930	<5		<5		<5	
24931	<5		<5		<5	
24932	<5		<5		<5	
24933	<5		<5		<5	
24934	20	20	10	8	10	7
24935	15		<5		<5	
30976	<5		<5		<5	
30977	<5		<5		<5	
30978	<5		<5		<5	
30979	<5		<5		<5	
30980	<5		<5		<5	
30981	<5		<5		<5	
30982	<5		<5		<5	
30983	<5		<5		<5	
30984	<5		<5		<5	
30985	<5		<5		<5	

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2 Telephone : (819) 762-7100 Fax : (819) 762-7510	Folder : 22926 Your order number : Project : SV-HDN Total number of samples : 80

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
26966	<5	<5	<5	<5	<5	<5
26967	<5		<5		<5	
26968	<5		<5		<5	
26969	<5		<5		<5	
26970	201	193	371	384	3768	3794
26971	<5		<5		<5	
26972	19		<5		<5	
26973	<5		<5		<5	
26974	<5		<5		<5	
26975	<5		<5		<5	
30921	114		36		144	
30922	51		36		81	
30923	62	57	11	10	67	63
30924	101		97		172	
30925	66		29		75	
30926	73		26		92	
30927	25		<5		63	
30928	31		15		105	
30929	48		54		117	
30930	<5		<5		<5	

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Laboratoire Expert Inc.

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 Canada, J9X 6P2
 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22769
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22943 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 6

Designation	Cu AA1-8 %	Cu-Dup AA1-8 %
	0.010	0.010
29231	2.660	2.630
29239	1.360	
29242	2.680	
29243	1.950	
29244	4.030	
29245	2.510	



Joe Landers, Manager

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Laboratoire Expert Inc.

127, Boulevard Industriel
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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22778
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22962 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 11

Designation	Cu AA1-8 %	Cu-Dup AA1-8 %	Ni AA1-8 %
	0.010	0.010	0.010
30283	1.120	1.150	
30300			2.450
30335	1.310		
30337	3.460		
30342	1.480		
30343	1.820		
30344	2.930		
30345	1.820		
30346	1.980		
30347	3.570		
30350			1.930



Joe Landers, Manager

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22758
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22964 Your order number : Project : SV-HDN Total number of samples : 1
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Ni AAE-8 %	Ni-Dup AAI-8 %
26200	2.430	2.430



Joe Landers, Manager

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22759
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22965 Your order number : Project : SV-HDN Total number of samples : 1
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Ni AAE-8 %	Ni-Dup AAI-8 %
26250	2.430	2.440



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22976 Your order number : Original Folder 22770 Project : SV-HDN Total number of samples : 3
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu AAI-8 %	Ni AAI-8 %	Ni-Dup AAI-8 %
24400	0.010	0.010	0.010
24469	2.470	2.450	2.430
24531	1.230		



Joe Landers, Manager

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22977 Your order number : Original Folder: 22772 Project : SV-HDN Total number of samples : 2
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
28150		2,380	2,390
28191	1,240		



Joe Landers, Manager

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Laboratoire Expert Inc.

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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22978 Your order number : Original Folder: 22773 Project : SV-HDN Total number of samples : 9
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Cu	Cu-Dup	Ni
	AAI-8 %	AAI-8 %	AAI-8 %
	0.010	0.010	0.010
24879	2.950	3.030	
24881	1.260		
24882	2.100		
24883	3.150		
24888	1.270		
24889	2.750		
24894	3.080		
24899	1.660		
24900			2.190



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 22979 Your order number : Original Folder: 22791 Project : SV-HDN Total number of samples : 2
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu AA1-8 %	Cu-Dup AA1-8 %
	0.010	0.010
29224	1.190	1.210
29225	1.810	



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23083 Your order number : Original Folder: 22757 Project : SV-HDN Total number of samples : 1
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Ni AAE-8 %	Ni-Dup AA1-8 %
26150	2.260	2.230



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23084 Your order number : Original Folder: 22763 Project : SV-HDN Total number of samples : 2
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Ni AAE-8 %	Ni-Dup AAI-8 %
	0.010	0.010
24750	2.140	2.170
24800	2.310	



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23085 Your order number : Original Folder: 22784 Project : SV-HDN Total number of samples : 1
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Ni AAE-8 %	Ni-Dup AAI-8 %
24550	0.010 <hr/> 2.230	0.010 <hr/> 2.210



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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23086 Your order number : Original Folder: 22792 Project : SV-HDN Total number of samples : 1
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu AA1-8 %	Cu-Dup AA1-8 %
24602	3.650	3.630



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23087 Your order number : Original Folder: 22798 Project : SV-HDN Total number of samples : 5
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu	Cu-Dup
	AA1-8 %	AA1-8 %
	0.010	0.010
28778	1.470	1.480
28779	3.680	
28781	3.480	
28782	2.210	
28783	2.670	



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23088 Your order number : Original Folder: 22799 Project : SV-HDN Total number of samples : 5
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
28700		2.220	2.250
29268	1.700		
29272	2.000		
29275	2.140		
29200		2.260	



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23111 Your order number : Original Folder : 22780 Project : SV-HDN Total number of samples : 1
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Ni AAE-8 %	Ni-Dup AAI-8 %
27400	0.010 <hr/> 2.210	0.010 <hr/> 2.230



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23112 Your order number : Original Folder : 22790 Project : SV-HDN Total number of samples : 10
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Cu	Ni	Ni-Dup
	AA1-8 %	AA1-8 %	AA1-8 %
	0.010	0.010	0.010
24500		2.220	2.230
24612	4.720		
24613	3.300		
24614	4.310		
24615	3.980		
24616	1.750		
24617	2.190		
24778	1.890		
24779	2.390		
26700		2.260	



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23113 Your order number : Original Folder : 22793 Project : SV-HDN Total number of samples : 4
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
24350		2.150	2.140
24450		2.170	
24537	1.470		
24539	1.390		



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23114 Your order number : Original Folder : 22800 Project : SV-HDN Total number of samples : 4
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu	Cu-Dup	Ni
	AA1-8 %	AA1-8 %	AA1-8 %
	0.010	0.010	0.010
29295	1.490	1.460	
29296	2.190		
29297	1.490		
30200			2.190



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23115 Your order number : Original Folder : 22812 Project : SV-HDN Total number of samples : 8
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Cu	Cu-Dup	Ni
	AAI-8 %	AAI-8 %	AAI-8 %
	0.010	0.010	0.010
24471	2.190	2.160	
24472	1.690		
24598	1.990		
24599	2.560		
24600			2.210
24601	2.680		
24768	1.520		
24825	1.750		



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Client : Southampton Ventures Inc.	
Adressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23116 Your order number : Original Folder : 22813 Project : SV-HDN Total number of samples : 4
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu	Cu-Dup	Ni
	AA1-8 %	AA1-8 %	AA1-8 %
	0.010	0.010	0.010
26716	1.140	1.120	
28800			2.200
29246	1.270		
29250			2.250

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23117 Your order number : Original Folder : 22814 Project : SV-HDN Total number of samples : 10
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
26750		2.240	2.230
27338	1.340		
28177	2.740		
28178	3.310		
28182	2.610		
28183	4.000		
28184	7.140		
28185	3.120		
28750		2.240	
28850		2.020	



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23118 Your order number : Original Folder : 22771 Project : SV-HDN Total number of samples : 5
	Telephone : (819) 762-7100 Fax : (819) 762-7510

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
27350		2.160	2.170
27357	2.260		
27358	2.680		
27363	2.000		
30150		2.190	



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Client : Southampton Ventures Inc.	Original folder: 22597
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23129 Your order number : Project : SV-HDN Total number of samples : 1
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Ni AAE-8 %	Ni-Dup AAI-8 %
27700	2.100	2.100



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Client : Southampton Ventures Inc.	Original folder: 22603
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23130 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 8

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
30550		2.170	2.140
30565	1.580		
30576	1.400		
30577	1.590		
30586	6.740		
30587	7.330		
30589	1.740		
27500		2.200	



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Client : Southampton Ventures Inc.	Original folder 22612
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23131 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 7

Designation	Cu	Cu-Dup	Ni
	AA1-8 %	AA1-8 %	AA1-8 %
	0.010	0.010	0.010
30406	1.730	1.790	
30407	1.810		
26091	1.410		
26094	3.800		
26095	1.530		
26098	1.390		
26100			2.140



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Client : Southampton Ventures Inc.	Original folder: 22795
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23140 Your order number : Project : SV-HDN Total number of samples : 7
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu	Cu-Dup	Ni
	AA1-8 %	AA1-8 %	AA1-8 %
	0.010	0.010	0.010
26739	1.600	1.590	
27000			2.110
27250			2.090
27331	1.700		
27333	1.190		
27336	3.740		
27337	1.430		



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Client : Southampton Ventures Inc.	Original folder: 22872
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23141 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 6

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
24650		2.100	2.090
24700		2.120	
24950		2.130	
26917	1.410		
26929	1.460		
26931	2.100		



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Client : Southampton Ventures Inc.	Original folder: 22873
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23142 Your order number : Project : SV-HDN Total number of samples : 2
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu	Cu-Dup	Ni
	AA1-8 %	AA1-8 %	AA1-8 %
	0.010	0.010	0.010
28055	1.540	1.540	
28999			1.920



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Client : Southampton Ventures Inc.	Original folder: 22899
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23143 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 4

Designation	Cu	Cu-Dup	Ni
	AA1-8 %	AA1-8 %	AA1-8 %
	0.010	0.010	0.010
28976	1.870	1.850	
28977	1.450		
28978	3.620		
29050			1.860



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Client : Southampton Ventures Inc.	Original folder: 22900
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23144 Your order number : Project : SV-HDN Total number of samples : 11
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu	Cu-Dup
	AA1-8 %	AA1-8 %
	0.010	0.010
30675	1.640	1.670
30676	4.490	
30677	2.300	
30688	1.770	
30696	1.510	
51035	1.900	
51037	2.610	
51038	1.400	
51039	1.930	
51043	1.490	
51044	6.120	



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Client : Southampton Ventures Inc.	Original folder: 22789
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23145 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 9

Designation	Cu	Cu-Dup	Ni
	AA1-8 %	AA1-8 %	AA1-8 %
	0.010	0.010	0.010
28867	1.220	1.230	
28868	2.200		
28869	1.830		
29298	2.610		
29299	1.880		
29300			2.220
29301	3.030		
29302	1.500		
30110			2.130



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Client : Southampton Ventures Inc.	Original folder: 22794
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23161 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 4

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
24850		2.180	2.180
27300		2.160	
28174	1.300		
28200		2.130	



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Client : Southampton Ventures Inc.	Original folder: 22874
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23163 Your order number : Project : SV-HDN Total number of samples : 3
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Ni AAE-8 %	Ni-Dup AAJ-8 %
	0.010	0.010
30942	1.430	1.440
30950	2.180	
51050	2.210	



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Client : Southampton Ventures Inc.	Original folder: 22867
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23164 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 4

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
28500	0.010	2.210	2.210
29100		2.190	
30750		2.200	
30754	4.230		



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Client : Southampton Ventures Inc.	Original folder: 22775
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23165 Your order number : Project : SV-HDN Total number of samples : 6
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
26350	0.010	2.190	2.210
26379	1.960		
26382	1.660		
26384	1.720		
26385	1.940		
26397	1.880		



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Client : Southampton Ventures Inc.	Original folder: 22868
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23166 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 4

Designation	Cu	Cu-Dup
	AAI-8 %	AAI-8 %
	0.010	0.010
30931	1.290	1.300
30936	1.850	
30937	2.910	
30939	1.950	



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Client : Southampton Ventures Inc.	Original folder: 22870
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23167 Your order number : Project : SV-HDN Total number of samples : 3

Designation	Cu AA1-8 %	Cu-Dup AA1-8 %	Ni AA1-8 %
26823	1.080	1.090	
27950			2.290
28066	1.110		



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Client : Southampton Ventures Inc.	Original folder: 22897
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23168 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 14

Designation	Cu	Cu-Dup	Ni
	AA1-8 %	AA1-8 %	AA1-8 %
	0.010	0.010	0.010
24665	1.560	1.530	
26536	4.300		
26537	2.700		
26539	1.890		1.230
26639	1.500		
26641	2.050		
26642	3.960		
26643	4.610		
26644	3.970		
26645	4.570		
26646	1.650		
26647	2.030		
26648	1.920	1.910	
26650			2.170



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Client : Southampton Ventures Inc.	Original folder: 22869
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23182 Your order number : Project : SV-HDN Total number of samples : 12
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Ag AA1-7 ppm 0.2	Ag-Dup AA1-7 ppm 0.2	Cu AA1-8 % 0.010	Cu-Dup AA1-8 % 0.010	Ni AA1-8 % 0.010
24275			3.230	3.240	
24276			5.030		
24277			12.250		
24278			1.090		
24279			2.610		
24969			1.410		
24971			2.180		
24973			2.200		
24974			2.700		
24977	135.7	136.3	12.730		
25000					1.810
26500					1.850



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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22901
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23183 Your order number : Project : SV-HDN Total number of samples : 4
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu	Cu-Dup
	AA1-8 %	AA1-8 %
	0.010	0.010
24268	1.360	1.350
24269	8.790	
24274	2.000	
26629	1.580	



Joe Landers, Manager

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Laboratoire Expert Inc.

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Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22918
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23184 Your order number : Project : SV-HDN Total number of samples : 1
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu AAI-8 %	Cu-Dup AAI-8 %
27993	1.700	1.730



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Client : Southampton Ventures Inc.	Original folder: 22919
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23185 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 12

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
26900		2.110	2.100
26904	1.490		
29083	1.140		
29084	2.530		
24961	1.740		
24965	1.450		
24300		2.180	
24248	1.830		
24250		2.130	
24251	1.530		
24252	1.590		
28554	3.270		



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Client : Southampton Ventures Inc.	Original folder: 22924
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel	Folder : 23186
Rouyn-Noranda Québec Canada, J9X 6P2	Your order number :
Telephone : (819) 762-7100 Fax : (819) 762-7510	Project : SV-HDN
	Total number of samples : 18

Designation	Cu	Cu-Dup	Ni	Ni-Dup	Pb
	AAI-8 %	AAI-8 %	AAI-8 %	AAI-8 %	AAI-8 %
	0.010	0.010	0.010	0.010	0.010
27994			1.370	1.350	
27996	1.470				
28000			2.150		
24230					0.720
24256	1.230				
24257	1.780				
24259	2.460				
24261	1.600				
24262	5.640				
24263	1.310				
24264	2.090				
26836	2.090				
26838	1.450	1.470			
26839	3.760				
30678	1.900				
30685	2.140				
30686	2.070				
30687	1.760				



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Client : Southampton Ventures Inc.	Original folder: 22701
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23203 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 10

Designation	Cu	Cu-Dup	Ni
	AA1-8 %	AA1-8 %	AA1-8 %
	0.010	0.010	0.010
23978	2.660	2.600	
23979	1.990		
23981	2.990		
25194	1.730		
25196	1.350		
25199	1.260		
25200			2.180
25201	1.830		
25204	1.430		
25205	1.510		



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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22781
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23221 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 8

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
27800		2.180	2.190
27850		2.190	
27857	1.390		
27859	1.360		
27865	1.140		
27867	1.260		
27869	1.710		
27871	1.330		



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 Telephone : (819) 762-7100, Fax : (819) 762-7510

Client : Southampton Ventures Inc.	Original folder: 22925
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23303 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 7

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
26824		1.370	1.410
30900		1.860	
26950		1.870	
24236	2.540		
24237	2.580		
24244	1.570		
26531	1.780		



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Client : Southampton Ventures Inc.	Original folder: 22926
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23304 Your order number : Project : SV-HDN Total number of samples : 1
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Ni AAE-8 %	Ni-Dup AAI-8 %
31000	1.850	1.890



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Client : Southampton Ventures Inc.	Original folder: 22902
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23305 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 12

Designation	Cu	Cu-Dup	Ni
	AAI-8 %	AAI-8 %	AAI-8 %
	0.010	0.010	0.010
28622	1.080	1.100	
28633	8.580		
28634	2.710		
28636	1.700		
28637	4.300		
28638	1.860		
28639	1.920		
28641	3.350		
28642	1.650		
28650			1.840
29081	2.270		
29082	1.320		



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Client : Southampton Ventures Inc.	Original folder: 22923
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23329 Your order number : Project : SV-HDN
Telephone : (819) 762-7100 Fax : (819) 762-7510	Total number of samples : 10

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
	0.010	0.010	0.010
26600		1.980	1.910
30737	1.620		
24676	1.560		
24677	2.020		
24679	1.800		
24681	1.390		
26800		1.870	
27969	1.110		
28950		1.780	
30800		1.770	



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Client : Southampton Ventures Inc.	Original folder: 22903
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23381 Your order number : Project : SV-HDN Total number of samples : 4
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu	Cu-Dup	Ni
	AA1-8 %	AA1-8 %	AA1-8 %
	0.010	0.010	0.010
30193	3.520	3.500	
30194	2.160		
30700			2.140
30650			2.170



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Client : Southampton Ventures Inc.	
Adressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23577 Your order number : Project : SV-HDN Total number of samples : 3
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Cu AA1-8 %	Ni AA1-8 %	Ni-Dup AA1-8 %
23450	0.010	1.800	1.800
26000		1.800	
24463	2.240		

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23655 Your order number : Reassays Project : SV-HDN Total number of samples : 44
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
23375	10	8	14	12	14	14
23376	11		12		13	
23377	50		18		21	
23378	69		32		71	
23379	15		30		37	
23380	----- I.S		----- I.S		----- I.S	
23381	18		11		20	
23382	31		15		46	
23383	53		37		53	
23384	116		204		532	
23385	50		144		189	
23965	202		34		51	
23966	121	118	61	60	123	118
23977	----- I.S		----- I.S		----- I.S	
28218	82		58		120	
28219	26		37		80	
28220	5		21		40	
28221	11		28		27	
28222	8		15		23	
28223	33		23		30	

I.S Insufficient sample



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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23655 Your order number : Reassays Project : SV-HDN Total number of samples : 44
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
28224	23		10		7	
28225	46		22		9	
27295	<5		<5		<5	
27296	<5		10		8	
27297	<5	<5	7	8	10	12
27318	5		9		14	
27319	21		43		85	
27320	----- I.S		----- I.S		----- I.S	
27321	118		20		38	
27322	35		87		64	
27323	114		71		142	
27324	29		64		93	
27325	48		41		96	
28911	<5		<5		<5	
24956	<5		13		12	
24957	<5		5		<5	
24958	6	6	17	20	18	16
24959	----- I.S		----- I.S		----- I.S	
24960	84		26		74	
24961	125		76		143	

I.S Insufficient sample

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Client : Southampton Ventures Inc.	
Addressee : Luce Lafleur (labexpert) 127, Boulevard Industriel Rouyn-Noranda Québec Canada, J9X 6P2	Folder : 23655 Your order number : Reassays Project : SV-HDN Total number of samples : 44
Telephone : (819) 762-7100 Fax : (819) 762-7510	

Designation	Au DCP-1 ppb 5	Au-Dup DCP-1 ppb 5	Pt DCP-1 ppb 5	Pt-Dup DCP-1 ppb 5	Pd DCP-1 ppb 5	Pd-Dup DCP-1 ppb 5
24962	142		85		167	
24963	20		27		51	
24964	164		39		72	
24965	115		33		175	