GM 67206

REPORT OF WORK ON THE DEFINITION DRILL PROGRAM AND MINERAL RESOURCES CALCULATION, PD1 DEPOSIT, MATAGAMI PROJECT

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Report of Work on the Definition Drill Program and Mineral Resource Calculation for the PD1 Deposit, Matagami Project, Québec 2010-2011

GM 67206

La Gauchetière Township, Quebec
National Topographic System Sheet 32E/16
UTM 273710E, 5516700N NAD83 Zone 18

Prepared by
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February 25, 2011

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"Technical Report on the Resource Calculation for thePD1 Deposit, Matagami Project, Québec"

Prepared by

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dated
February 25, 2011

The original Technical Report was prepared as a National Instrument 43-101 Technical Report, in accordance with Form 43-101F1, for Donner Metals Ltd. The quality of information, conclusions, and estimates contained therein is/are based on i) information available at the time of preparation, ii) data supplied by Xstrata Canada Corporation – Xstrata Zinc Canada Division - operator under the Matagami Lake Option and Joint Venture Agreement and a producing issuer under NI 43-110 – section 5.3(3), iii) information from other outside sources, and iv) the assumptions, conditions, and qualifications set forth in this report. This original Technical Report is for the intended use by Donner Metals Ltd. for filing of a Technical Report with Canadian Securities Regulatory Authorities pursuant to provincial securities legislation. Except for the purposes legislated under provincial securities law, any other use of the this Technical Report and the original Technical Report by any third party is at that party's sole risk.

Technical information contained in this document for reporting of work purposes has not changed with regard to material technical data, calculations or conclusion related to the resource calculation as reported in the original National Instrument 43-101 Technical Report titled "Technical Report on the Resource Calculation for the PD1 Deposit, Matagami Project, Québec" Technical Report dated February 25, 2011. However, items relating to the current status of agreements, joint ventures and regional geological understanding have been up dated to reflect current status.

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1 SUMMARY

1.1 Property Description and Location

The PD1 Property is located within the Matagami Mining Camp in north central Quebec, Canada. The property is part of the Matagami Lake Option and Joint Venture Agreement (**"MLOJVA"**) between Donner Metals Ltd. (**"Donner"**) and Xstrata Canada Corporation (**"Xstrata"**) that was signed on May 31, 2006. The project is managed and operated by Xstrata Zinc Canada Division (**"Xstrata Zinc"**). The MLOJVA land package is centered on the town of Matagami in central Quebec and comprises an area of mutual interest of 4,737 km^2 which presently includes 2,895 mineral claims covering 667 km^2 (as of December, 2012) held on behalf of both parties by Xstrata Canada Corporation. The Matagami Camp is located 650 km northwest of Montreal and 183 km by paved road north of Amos, Quebec (**Figure 1-1**). The global property covers NTS map sheets 32E09, 32E16, 32F10, 32F11, 32F12, 32F13, 32F14, and 32F15. The town of Matagami is centered on UTM coordinates 310,690 E, 5,515,150 N (NAD 83, Zone 18). Mining and exploration activities at the PD1 deposit and area can occur year round. Exploration activities are restricted during a short period at spring break-up when the ground becomes soft.

The PD1 deposit is located in La Gauchetière Township, Quebec on NTS Sheet 32E/16, and centered on UTM coordinates 273710E, 5516700N (NAD83 Zone 18). The PD1 deposit is located 38 kilometres west of the town of Matagami and 31.4 kilometres west-northwest of the currently operating Matagami Mill (**Figure 1-2**). Access to the site is gained via a paved and gravel, all weather road that leaves provincial Highway 109 approximately 8 kilometres south of the town of Matagami and 2 kilometres from the Matagami Mill. From highway 109, access consists of 7.5 kilometres of paved road and 27.5 kilometres of gravel road. Total distance to the Matagami Mill by road is 37.5 kilometres.

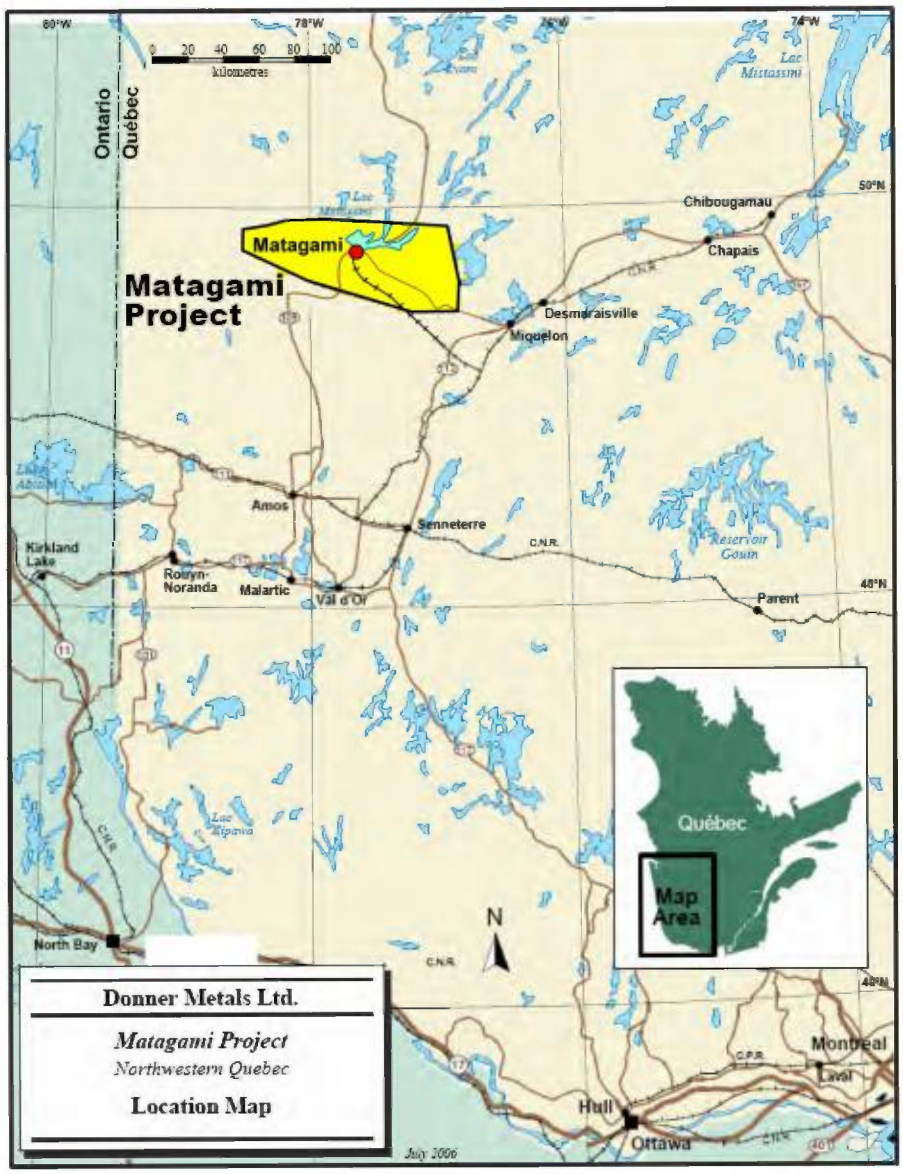


Figure 1-1: Matagami project location map, after (Cook & Chamois, 2006).

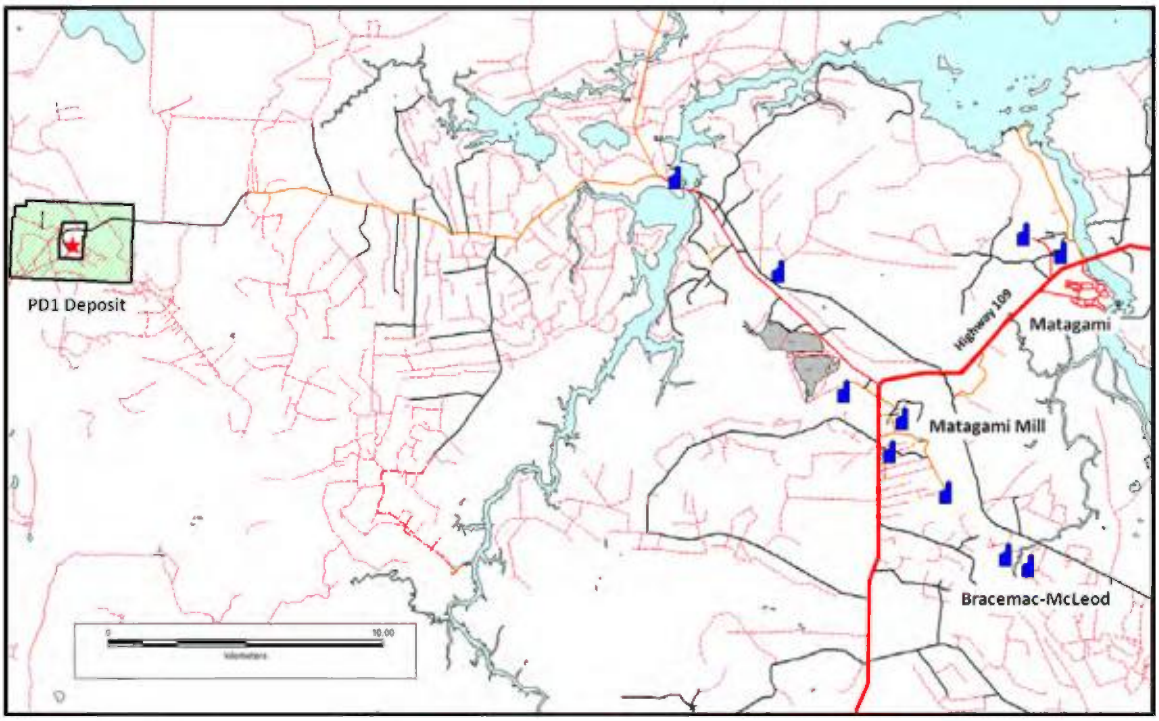


Figure 1-2 : PD1 Deposit Location Map

The PD1 deposit and its depth extension is covered by 9 contiguous mineral claims which are currently owned jointly Xstrata Canada Corporation 50% and Donner Metals Ltd 50%, subject to the terms of the purchase agreement with Phelps Dodge Corporation of Canada (**Table 1-1** and **Figure 1-3**).

Table 1-1: PD1 Deposit – List of claims.

Claim Number	Township	Date	Area
4586493	La Gauchetière	13-Mar-89	PD 1 deposit
4609131	La Gauchetière	26-Aug-91	PD 1 deposit
5075408	La Gauchetière	17-Sep-91	PD 1 deposit
5075409	La Gauchetière	17-Sep-91	PD 1 deposit
5086183	La Gauchetière	22-Oct-91	PD 1 deposit
5086184	La Gauchetière	22-Oct-91	PD 1 deposit
5086185	La Gauchetière	22-Oct-91	PD 1 deposit
5229049	La Gauchetière	18-Feb-00	PD 1 deposit
5229050	La Gauchetière	18-Feb-00	PD 1 deposit

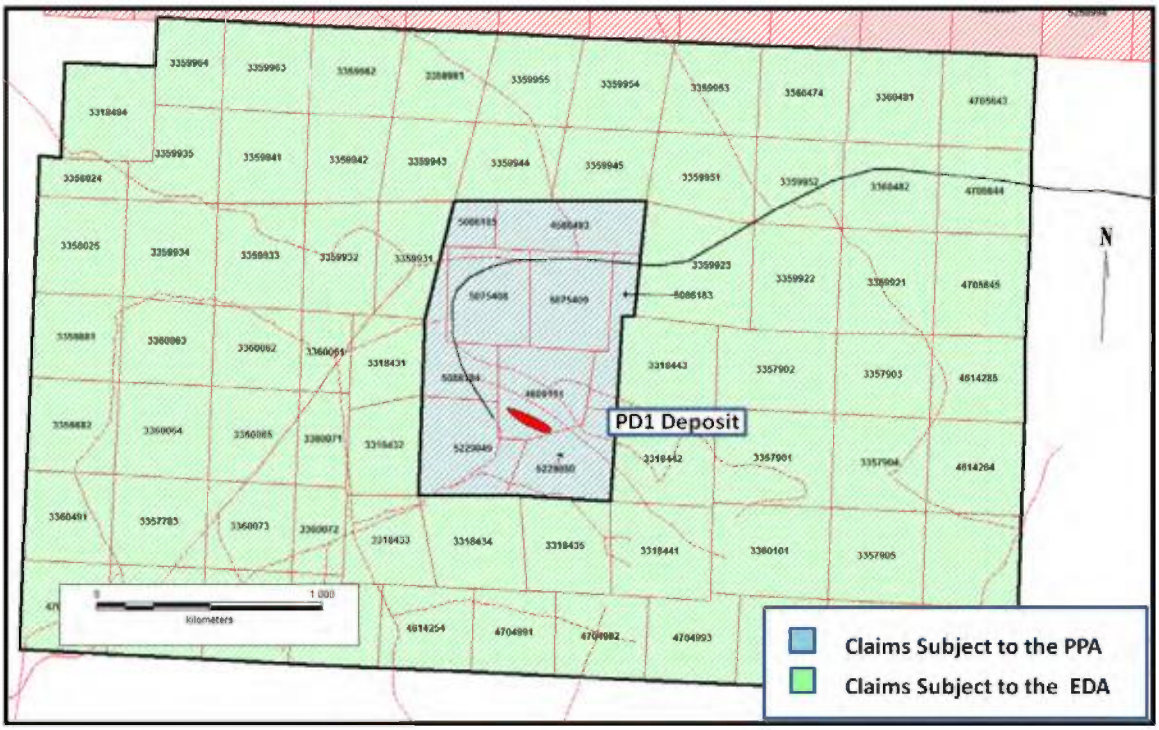


Figure 1-3: PD1 Claims.

1.2 Governing Agreements

1.2.1 Matagami Option and Joint Venture Agreement (MLOJVA) - 2006

Donner Metals Ltd. and Xstrata Canada Corporation are parties to an Option and Joint Venture Agreement that governs the Matagami Project. Xstrata Zinc Canada Division manages and operates the project on behalf of both companies. This agreement covers both exploration for, and development of, mineral resources within an extensive land package covering the Matagami Mining Camp. As of December, 2012, the MLOJVA consists of a 4,737 km^2 area of mutual interest and 2,895 mineral claims covering 667 km^2, roughly centered on the town of Matagami in central Quebec, Canada (**Figure 1-4**). Under the terms of this agreement, Donner Metals earned an initial 50% interest in Xstrata Canada Corporation's Matagami Camp mineral claims (not including the Perseverance Deposit and immediate vicinity) on May 31, 2011. Xstrata Zinc, as operator of the project, will receive applicable management fees. On May 31, 2011, five joint venture project areas were formed with each party holding an initial 50% interest. The joint venture areas are: South Flank joint venture area (includes Bracemac-McLeod, McLeod Deep, Orchan West), North Flank joint venture area, Central Camp joint venture area; West Camp joint venture area (includes the PD1 Deposit - Phelps Dodge Corporation of Canada has rights on the West Camp joint venture area under two underlying agreements) and the East joint venture area. Subsequent to formation of the five joint ventures, a sixth joint venture area called the Bracemac-McLeod joint venture was carved out of the South Flank joint venture area to govern the development of the Bracemac-McLeod Mine. The Bracemac-McLeod Mine is currently under construction.

Under the MLOJVA, Xstrata Canada Corporation has a separate right in each of the initial five joint venture areas to "bump-up" its interest by an additional 15% by completing a bankable

feasibility study or incurring a maximum of CDN $20 million towards a bankable feasibility study. Should Xstrata Canada Corporation exercise its right in a joint venture, the interests will become 65% Xstrata Canada Corporation and 35% Donner Metals Ltd. The other joint venture areas will remain at a 50%/50% interest until such time as Xstrata exercises its remaining bump-up rights.

Pursuant to the completion of the feasibility study on the Bracemac-McLeod Deposit, the South Flank joint venture area became a 65% Xstrata, 35% Donner joint venture with no further bump-up right to Xstrata. By extension, these interests were preserved in the formation of the Bracemac-McLeod joint venture area.

Under the MLOJVA, Xstrata Canada Corporation, through Xstrata Zinc Canada Division, has the right to be operator of any mining operations provided it holds at least a 50% interest in the governing joint venture.

Current interests in the West Camp joint venture area are Xstrata Canada Corporation 50% and Donner Metals Ltd. 50% with Xstrata retaining its bump-up right in the West Camp joint venture area.

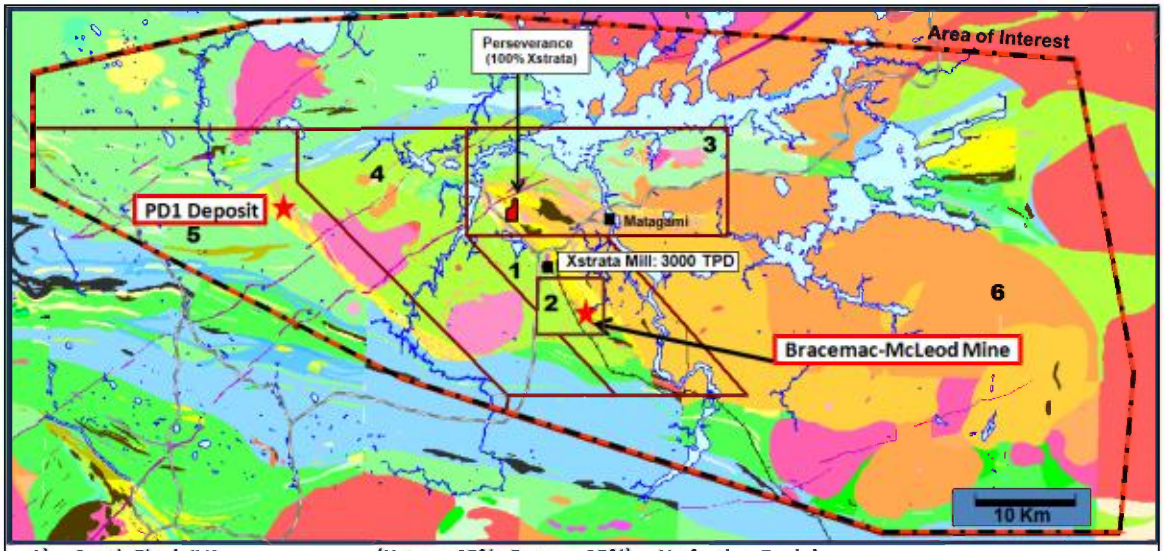


Figure 1-4: Map showing the MLOJVA areas.

1.2.2 Underlying Agreements

Xstrata Canada Corporation holds title to the 9 mineral claims on behalf of the West Camp joint venture (currently 50% and Donner Metals Ltd 50%) which cover the PD1 deposit subject to the rights and obligations applicable to Orchan Mines Limited (Xstrata is the successor to Orchan Mines Limited) under the Property Purchase Agreement (the "PPA") dated 1976 between

Orchan Mines Limited and Phelps Dodge Corporation of Canada Limited ("Phelps Dodge") (**Figure 1-3**). The terms of this agreement are:

- Phelps Dodge holds a 15% *net carried interest** on the first 1.6 million tons mined from the 9 mineral claims. This will increase to a 25% net carried interest after 1.6 million tons are mined.

  * Net carried interest in this case is defined as Net Proceeds** less capital expenditures, working capital and carrying charges.

  **Net Proceeds are defined as gross revenue less operating costs and both transfer and processing charges.

- Phelps Dodge is entitled to $400,000 in cash payments, paid in annual installments of $100,000, during each of the first four years of production from the property.

- Following production of the first 1.9 million tons from the property, Phelps Dodge may elect, within one year, to participate at 40% in any further development of the property by foregoing its net carried interest from the point of election.

Should production occur on the property, Xstrata and Donner will take on their pro rata share of the obligations of Orchan Mines Limited under the PPA, including payments to Phelps Dodge related to any production from the PD1 deposit.

1.3 Reliance on Other Experts

The author of this report is relying on the technical information provided by Xstrata Canada Corporation - Xstrata Zinc Canada Division whose Qualified Persons prepared, or supervised the preparation of, the technical data.

The Qualified Persons for Xstrata who are responsible for the technical information and resource estimate are:

Gilles Roy (géo.),	Senior Project Geologist,	Xstrata Zinc Canada
Patrick M. Carr (géo.),	Geologist	Xstrata Zinc Canada

This report is specific to the immediate area of the PD1 deposit. The reader is referred to the Technical Report on the Matagami Project, Quebec prepared by (Cook & Chamois, 2006), (Adair, Technical Report on the Resource Calculation for the Bracmac and McLeod Discoveries, Matagam Project Quebec (Zorayda Consulting Limited), 2009) and (Coté & Lavigne, 2010) for information regarding the remainder of the MLOJVA property. Information, recommendations and conclusions are updated herein for the entire property where warranted.

1.4 History

The Matagami Lake region holds a mining history that dates back to the late 1900's when Robert Bell first conducted exploration in the area. The first discovery of zinc and copper-bearing

massive sulphides was made in 1956 at what became the Mattagami Lake Mine. Production began in 1963. Additional discoveries (Iles Dieu and Norita East - 1985, Bell Allard – 1992) supported continuous production until October 2004 when the last ore was drawn from the Bell Allard Mine and operations ceased due to depleted resources. The Perseverance Deposit was discovered in 2000 and put into production in 2008. The Bracemac-McLeod deposit was discovered in 2007 and it is currently being developed with expected production in early 2013.

The PD1 deposit was discovered in 1974 by Phelps Dodge Corporation of Canada who subsequently sold the property to Orchan Mines Limited in 1976 under the PPA (Xstrata is the successor to Orchan Mines Limited). The property was included in the MLOJVA in 2007. Donner Metals Ltd. Earned a 50% interest in Xstrata's interest on May 31, 2011.

A total of 50 historical drillholes were drilled on the PD1deposit between 1974 and 1984. In 2010-2011 Xstrata Zinc/Donner Metals drilled 25 holes in the upper portion of the deposit above 100 metres vertical depth. This drill program was conducted to sample mineralization in the deposit from surface to 100 metres vertical depth and to determine if confidence can be placed on the historical drilling in the deposit.

1.5 Geology and Mineralization

1.5.1 Geology

The Matagami VMS Camp is located in western Quebec in the Abitibi Greenstone Belt of the Superior Province. The Matagami camp is typified by extensive volcanic rocks that pass upward from felsic rocks (Watson Lake Group) to volumetrically more abundant mafic rocks (Wabassee Group). The transition between these two groups occurs in three belts, the South Flank belt, North Flank belt and West Camp belt. The volcanic successions were synvolcanically intruded by the large Bell River layered complex (which drove hydrothermal processes), gabbro sills and dykes and lesser intermediate to felsic dykes and sills. Stratigraphy in the Matagami region is relatively layer-cake and typically progresses from a lower sequence of felsic volcanic rocks (rhyolite/dacite – Watson Lake Group) to a very thick upper sequence of mafic volcanic rocks (andesite/basalt – Wabassee Group). Interlayered with the volcanic rocks are tuffite beds, some of which can be laterally extensive and act as stratigraphic marker horizons. The sequence is intruded in all areas by synvolcanic, gabbro sills and dykes. The sills are commonly sub discordant and cut stratigraphy at low angles 0 ^{o} to 10°. The impact of intrusion of the gabbro sills is to inflate the stratigraphic succession as much as 30-40%. Felsic intrusions, generally dykes, occur locally and tend to cluster around areas of VMS activity. Both of these intrusion sets clearly post-dated the hydrothermal activity responsible for sulphide deposition.

The PD1 Deposit is located within the West Camp which is a 30 kilometre long belt comprised of volcanic rocks that correlate well with the Watson Lake Group – Key Tuffite – Wabassee Group sequence that typifies Matagami stratigraphy in the South Flank belt (Dessureault, Roy, Carr pers. communication). This correlation is made on the basis of rock type, geochemistry and age correlation. The stratigraphy in the West Camp is less well known due to extensive cover and much fewer drillholes. Geology and stratigraphic understanding are documented primarily from drilling on the Caber, Caber North and PD1 deposits as well as from drilling on the PD2 and Cavalier prospects (**Figure 1-5**). From these sites, a stratigraphic succession similar to the South Flank is evident. The succession is comprised of a lower tholeiitic rhyolite/dacite unit

(Watson group equivalent) overlain in many areas by a tuffite that correlates with the Key Tuffite marker in the South Flank. The felsic volcanic rocks and/or the tuffite are overlain by a thick tholeiitic andesite/- basalt sequence with locally inter-layered rhyolite/dacite and possibly local tuffites (Wabassee equivalent). The rhyolite in the footwall to the Caber deposit has been dated at 2725.9±1.2 which strongly supports its correlation with the Watson Lake rhyolite in the South Flank (Ross, McNicoll, Debreil, & Roy, 2012, in press). Gabbro dykes inflate the sequence throughout the West Camp belt and can be quite abundant. As with similar intrusions in the South Flank, they appear to postdate mineralization (Masson, 2000).

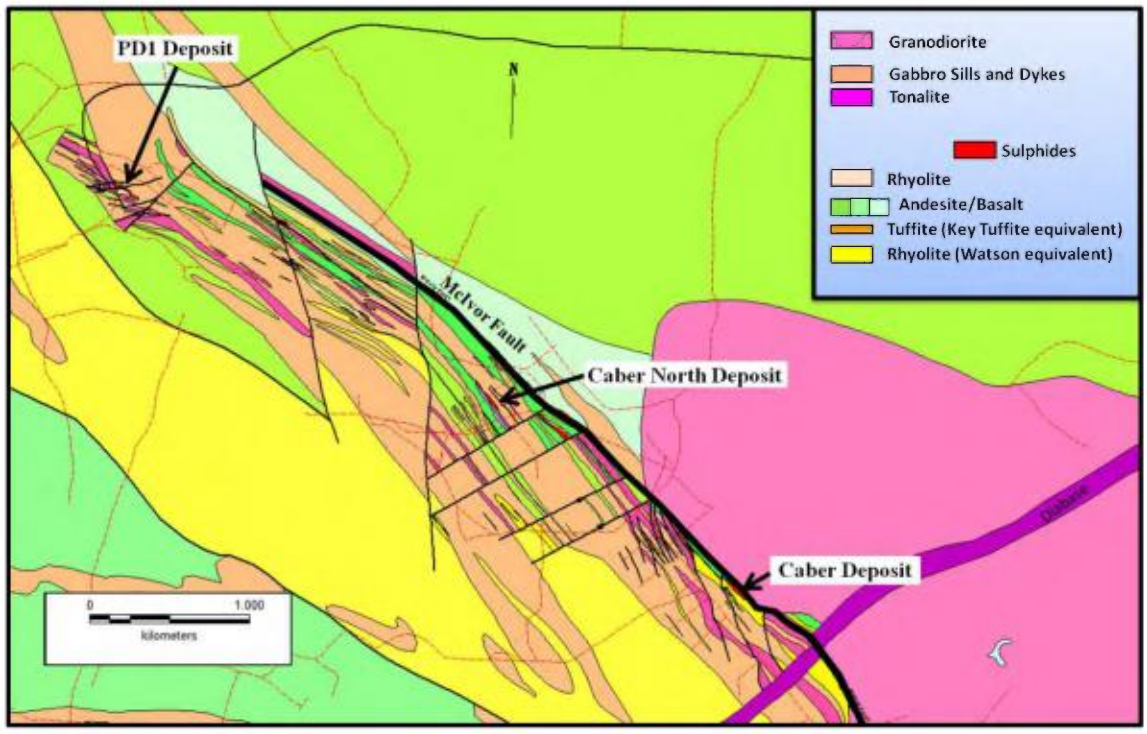


Figure 1-5: PD1 area regional geology (West Camp - north end).

Structurally, the sulphide mineralization at the PD1 deposit dips at 65 ^{o} to the northeast. Faults running perpendicular to stratigraphy are interpreted from drilling and surface geophysical surveys. One such fault acts a limit to mineralization on the south-eastern side of the PD1 deposit.

The PD1 deposit occurs within tholeiitic andesites interbedded with dacite/rhyolite and tuffite, all within the Wabassee group. This interpretation is based on core logging. Immobile element geochemistry from the 2010 drilling suggests that the amount of dacite/rhyolite may be exaggerated in core descriptions by the effects of silicification (Carr, P.M. pers. communication). Mineralization occurs with an intermittent tuffite horizon and with thin 1 – 5 metres intervals of Pipe alteration in the footwall and locally in the immediate hanging wall. The deposit extends from surface to a vertical depth of 515 metres. Mineralization is underlain over most of its extent by a dacite wedge (from historical core descriptions) which is then underlain by andesites/basalt. The footwall felsic volcanic rocks wedge out towards the near surface portion of the deposit where andesite is present in the immediate footwall. The hanging wall is comprised of inter

bedded mafic and felsic volcanic rocks (from historical descriptions) intruded by a thick gabbro sill.

1.5.2 Mineralization

The PD1 deposit generally fits within the context of the Matagami Type deposits in that it is composed of a massive sulphide body deposited/formed within the Wabassee Group and with associated Pipe development. The deposit differs from the typical Matagami sulphide deposits on four fronts:

1) The deposit is a body of dense massive pyrite within which two internal parallel layers are defined on the basis of minimum cut-off grade.
2) The overall grade of the deposit and that of the above cut-off mineralization is lower than camp average for massive sulphides.
3) The grain size is finer than camp average.
4) Mineralization occurs in the hanging wall stratigraphy to the Key Tuffite horizon within the lower portion of the Wabassee Group (interpreted in this area).

Mineralization at the PD-1 deposit is comprised of single body of massive to semi massive sulphides with two internal and parallel layers defined by grade cut-off of (2*Cu + Zn) greater than 3%. This cut-off also represents the preferential development of sphalerite and chalcopyrite within these two layers. These layers are separated by low grade sulphides dominated by pyrite and felsic/intermediate dykes. The lower layer exhibits higher copper values and the upper layer exhibits higher zinc values.

The deposit is elongate to the northeast and down the dip plane with an abrupt termination of sulphide mineralization along a possible fault running perpendicular to stratigraphy on the south-eastern side of the deposit. Mineralization is open at depth on the basis of an intersection in diamond drillhole 121G-34. The deposit is best represented by a best fit plane that strikes at 297° N and dips at 65° to the northeast. The deposit has a maximum width 160 metres at surface and there is a narrowing to 90 metres between 100 and 200 metres vertical depth where grade in the two layers drops off. The deepest drilling on the deposit indicates a width of 35 metres at 515 metres vertical depth. The deposit measures 535 metres in its long axis and the average thickness of sulphides is between 5 and 10 metres with local thickening up to 30 metres.

On visual and petrographic inspection, mineralization is finer-grained than sulphide mineralization typical of other Matagami type deposits. Sulphide species are dominated by pyrite with minor sphalerite, chalcopyrite and pyrrhotite. Magnetite is common and gangue minerals, where present, are composed of carbonate, quartz and chlorite.

1.6 2010 Program

A total of 24 diamond drillholes were completed in 2010 by Xstrata Zinc and Donner under the MLOJVA on the PD1 deposit. The objective of the drill program was to verify results of historical drilling and to add data points in order to provide the basis for a measured resource

between surface and a vertical depth of 100 metres. On the basis of the results of this drilling and the confirmation of the collar location of many of the historical drillholes, the dataset used in the resource calculation for the PD1 deposit includes results from 50 historical holes.

1.6.1 Drillhole Survey

2010 Collar locations at the PD1 deposit are surveyed by differential GPS in UTM NAD83 zone 17 and converted into UTM NAD83 zone 18. This is done to facilitate conversion of survey points to the Mine Grid system used at Matagami which is based on zone 18. As well, a total of 17 available historical drillholes were surveyed. The remaining of the 33 historical holes were converted into UTM and Mine Grid coordinates from historical data based on conversion factors of the new survey data.

Down-hole surveying of the 2010 drillholes was conducted by Reflex EZShot at 30 metre intervals with collar orientation of a number of the 2010 drillholes surveyed by north seeking gyroscope.

All of the historical holes were surveyed at the time by acid tests at intervals of either 30 metres (deep holes) or 60 metres (shallow holes). These tests provided measurement of dip only. Five historical holes were surveyed by Tropari at the time of drilling which provided information on both dip and azimuth of the borehole trajectory. These surveys were conducted as verification with readings taken at widely spaced intervals near the bottom of the deeper holes drilled on the deposit. They were not taken at regular intervals from the collar to the end of the drillhole. None of the historical holes were re-entered and surveyed by down-hole instruments in 2010.

1.6.2 Assays

1.6.2.1 2010 Drilling

All 2010 drillholes were sampled using Xstrata Zinc's QA/QC protocols for drill core analysis. Analyses are performed by ALS Chemex in Val d'Or, Quebec, and the results are certified by laboratory managers for ALS in Vancouver, B.C. followed by verification by Xstrata Zinc on the basis of sample standards and sample blanks. At the Chemex lab, each sample is analyzed for specific gravity and crushed to less than 2 mm and then pulverized until 85% passes 75 µm. Two drillholes were analyzed for SG by Xstrata personnel in Matagami. Base metals (Zn, Cu, Pb, and Ag) were analyzed by atomic absorption spectrometry following aqua regia digestion, gold by fire assay and atomic absorption spectrometry on a 30g sample. Trace elements were analyzed by inductively coupled plasma mass spectrometry or atomic emission spectroscopy following aqua regia digestion. Results are subject to Xstrata Zinc's Control Measures for assays.

1.6.2.2 Validation of Historical Assays

Under the 2010 drill program three historical holes were twinned for geological and assay validation purposes (**Table 1-2**). The objective of this exercise was to provide reasonable confidence that historically reported assay results were representative of the mineralization. The holes twinned are as follows:

Table 1-2: Historical drills twinned in 2010.

Historical DDH	Year Drilled	Company	Twin DDH (2010)
PD1-76-02	1976	Orchan Mines	PD1-10-27
PD1-76-03	1976	Orchan Mines	PD1-10-28
121G-02	1973	Phelps Dodge	PD1-10-29

The geometries of the intersected mineralization fit well between the original and twinned drillholes. Individual assays as well as assay composites were compared using descriptions and basic statistics. A good correlation between historical assays and recent drilling for length of intersection, zinc, copper and silver values on a composite basis were identified. The historical assays were accepted as valid representation of the grade of mineralization.

The new data acquired during 2010 provides sufficient grounds to apply an average specific gravity to all historical intersections of massive and semi-massive sulphides.

1.7 Predictive Metallurgical Analyses

A total of 16 samples of drill core consisting of representative samples of mineralization from 6 drillholes completed through mineralization in 2010 in the upper portion of the deposit were submitted to Terra Mineralogical Services for sulphide characterization and predictive petrographic metallurgical analyses. Sulphide species range from dominantly massive to locally semi-massive sulphides and composed of fine-grained pyrite, sphalerite and chalcopyrite with lesser pyrrhotite and minor galena. Gangue minerals are magnetite, carbonate, quartz and chlorite. Trace amounts of galena and altaite (Pb Telluride as inclusions in chalcopyrite) were also observed in only a few samples. Altaite occurs as minute inclusions in chalcopyrite (PD1-10-19). The PD1-type sulphides differ from typical Matagami Camp mineralization on the basis of finer grain size and moderately complex mineral textures

1.8 Resource Block Model

A model was constructed by Xstrata Zinc in Gemcom, based on an initial hard boundary, wire frame constructed around massive and semi-massive sulphide mineralization as interpreted by hole to hole geological interpretation on vertical drill sections. A cut-off of (2*Cu + Zn) greater than 3% was used to further constrain the model into a soft boundary, wire frame model. This was constructed by hole to hole interpretation of groupings of assays that exceeded the cut-off parameters in 3D space within the constraints of the massive and semi-massive solid. Two sub-parallel zones, encompassed within the massive and semi-massive sulphide unit were defined. These are separated by a below cut-off sulphides except in the uppermost area of the deposit where the two lenses coalesce. A block model resource calculation was constructed on the wire

frame model of the two sub parallel zones. Assays incorporated in the model were taken exclusively from drillholes. Both set of drill data (2010 drilling and historical drilling) were included in the model. Variography was not applied to the model.

The grade and tonnage for the deposit were estimated by interpolating grade and specific gravity values into 2 by 2 metre blocks using ±2 metre-long composites of assay data weighted by the inverse of the distance squared (ID2) weighting method. Each block was populated on the basis of at least nine values from a minimum three holes and no more than three values coming from each hole. The blocks were summed into 100 metre benches. The deposit was divided into two sectors for the calculation as follows:

1. the portion above 100 m vertical depth which was is comprised of both 2010 and historical drill data with a combined average drill spacing of approximately 20 metres, and,

2. the portion below 100 m vertical depth which is comprised solely of historical drillhole data with a drill spacing of approximately 60 metres.

Based on the block model, the following measured and indicated resources are reported for the PD1 deposit.

Table 1-3: PD1 deposit -measured and indicated resources.

Table 1:							
Category	**Tonnes**	**Zinc %**	**Copper %**	**Silver g/t**	**Gold g/t**	**Specific Gravity**	**Vertical Depth metres**
Measured	596,193	4.34	0.83	19.59	0.12	4.26	25 to 100
Indicated	262,387	4.26	0.91	19.95	NS	4.33	100 to 200
Indicated	528,925	4.25	1.59	21.13	NS	4.30	200 to 300
Indicated	272,211	5.48	1.41	20.27	NS	4.30	300 to 400
Indicated	71,895	6.32	0.77	12.44	NS	4.30	400 to 500
Indicated	5,762	2.64	0.19	8.14	NS	4.30	500 to 515
Total Measured and Indicated Resources	**1,737,373**	**4.55**	**1.16**	**19.88**	-	**4.29**	**25 to 515**

1.9 Interpretations and Conclusions

The results of the definition program conducted at the PD1 deposit in 2010 validated historical drill results and provided a drillhole sample density sufficient to form the basis of a measure resource estimate for the portion of the deposit 100 metres vertical depth.

The utilization of historical data in a NI43-101 compliant resource estimate is supported by a significant amount of new drill information that corroborated historical results in the upper portion of the PD1 deposit. The historical data was generated by Phelps Dodge Corporation of Canada, Orchan Mines Limited and Noranda Mines Limited, all respected mining companies and project operators. As such there is reasonable expectation the historical data can be trusted with

reasonable expected variation due to limitations of the assaying process utilized at the time and the lack of QA/QC protocols.

An area of caution is identified with respect to the lack of down-hole deviation measurements in historical drillholes that intersected mineralization below 300 metres vertical depth. Further, the few historical drillholes that were surveyed by a magnetic based instatement (Tropari) may have been affected by magnetic rocks. Provided proper positioning of the drill collars, the impact of these two factors is expected to be small within the first 250 metres of the deposit, however, the potential to impact drillhole spacing will increase with depth. The overall effect on a per hole basis for the deeper drilling may impact relative pierce point spacing in the mineralized horizon and any resultant resource assigned to a particular drillhole.

It is the author's opinion that the drillhole data and relevant spacing is sufficient to support the confidence levels calculated by Xstrata Zinc for the PD1 deposit with respect to the measured resource. This also holds true for the indicated resource, with the added caution that the pierce point locations of the deep holes in the deposit are likely to change should addition down-hole survey data be acquired.

1.10 Recommendations

On the basis of the resources calculated for the PD1 deposit and the relative location of the deposit with respect to the operating Matagami Mill, the following recommendations are made.

It is recommended that a feasibility study be conducted on the measured resources above 100 metres vertical depth. This study should assess the potential exploitation of this portion of the deposit by open pit in the context of incremental feed to the Matagami Mill as supplement to production from the Bracemac-McLeod mine commencing in 2013 if needed. The components of the study should include an engineering study (open pit and upgrading of road access to the site from the Matagami Mill), metallurgical bench testing and relevant environmental studies (**Table 1-4**). Financial analysis should be conducted on a fully costed project basis relative to a joint venture between Xstrata and Donner at 65%/35% interests respectively.

Table 1-4: Estimated budget for a feasibility study and scoping study – PD1 Deposit.

	Description	Total	Total
Feasibility Study Open Pit (measured resources)	Engineering Study	$300,000	
	Metallurgical Study	$150,000	
	Environmental Study	$100,000	
		$550,000	$550,000
Under Ground Scoping Study	Scoping Study	$50,000	
		$50,000	$50,000
		Subtotal:	**$600,000**
Contingency	25%		$150,000
	Total:		**$750,000**

It is also recommended that a scoping study be conducted on the indicated resources identified below 100 metres vertical depth in the context of underground exploitation of the remainder of the PD1 resource following production from an open pit as contemplated in the proposal for the feasibility study above. In this context, potential underground development would benefit from the capital costs already incurred in the development of the open pit. Should the scoping study indicate potential viability of an underground operation, verification of the historical drilling below 100 metres is recommended along with additional sampling by wedge cuts off of historical holes and/or drilling of additional new holes.

This recommendation is made in context with the production scheduled from the Bracemac-McLeod deposit (Coté & Lavigne, 2010). The PD1 deposit can benefit from proximity to the Matagami Mill and the possible availability of mill capacity in excess of that required for anticipated production from Bracemac-McLeod.

2 INTRODUCTION AND TERMS OF REFERENCE

Zorayda Consulting was retained by Xstrata Canada Corporation – Xstrata Zinc Division to prepare a report of work for activities conducted in 2010 and 2011.

Robin Adair of Zorayda Consulting is a non-independent Qualified Person for purposes of this report and as provided under Section 5.3(3) of the National Instrument 43-101. The author has acted as Donner's representative to the MLOJVA in the capacity of Vice President of Exploration since 2006. This Report is prepared to document work conducted on the property in 2010 and 2011 as initially described in the National Instrument 43-101 technical report (Adair, Technical Report on the Resource Calculation for the PD1 Deposit, Matagami Project, Quebec, 2011) **. It conforms to National Instrument 43-101 Standards of Disclosure for Mineral Projects (the "Instrument") and relies on technical information provided to Donner Metals Ltd. by Xstrata Canada Corporation – Xstrata Zinc Canada Division, a "producing issuer" as provided under Section 5.3(3) of the Instrument.**

Donner Metals Ltd. is a Canadian base metal company listed on the Toronto Venture exchange (TSX-V:DON). The company has a history of option and joint venture agreements with senior mining companies and is party to an Option and Joint Venture Agreement with Xstrata Zinc Canada Division on the Matagami Project (the "**MLOJVA**").

The resources reported herein for the PD1 deposit were calculated by Xstrata Zinc and are based on 25 new holes drilled in 2010 and in the upper portion of the deposit above 100 metres vertical depth and 50 historical drillholes completed from surface to a vertical depth of 520 metres between 1973 and 1984.

2.1 Governing Agreements

2.1.1 Matagami Option and Joint Venture Agreement "MLOJVA" (2006)

Donner Metals Ltd. and Xstrata Canada Corporation are parties to an Option and Joint Venture Agreement that governs the Matagami Project. Under the terms of this agreement, Xstrata Zinc Canada Division manages and operates the project on behalf of both companies. This agreement covers both exploration for, and development of, mineral resources within an extensive land package covering the Matagami Mining Camp. As of December, 2012, the MLOJVA consists of a 4,737 km^2 area of mutual interest and 2,895 mineral claims owned by Xstrata Canada Corporation covering 667 km^2, roughly centered on the town of Matagami in central Quebec, Canada (**Figure 2-1**). Under this agreement, Donner Metals earned an initial 50% interest in Xstrata's Matagami Camp mineral claims (not including the Perseverance Deposit and immediate vicinity) on May 31, 2011. Xstrata Zinc is operator of the project and will receive applicable management fees. Upon earn-in by Donner, five initial joint venture project areas were formed with each party holding an initial 50% interest. The joint venture areas are: South Flank joint venture area (includes Bracemac-McLeod, McLeod Deep, Orchan West), North Flank joint venture area, Central Camp joint venture area; West Camp joint venture area

(includes the PD1 Deposit - Phelps Dodge Corporation of Canada has rights under two underlying agreements) and the East joint venture area.

Subsequent to formation of the five joint ventures, a sixth joint venture area called the Bracemac-McLeod joint venture area was carved out of the South Flank joint venture area to govern the development of the Bracemac-McLeod Mine. The Bracemac-McLeod Mine is currently under construction.

Under the MLOJVA, Xstrata Canada Corporation has a separate right in each of the initial five joint venture areas to "bump-up" its interest by an additional 15% by completing a bankable feasibility study or incurring a maximum of CDN $20 million towards a bankable feasibility study. Should Xstrata Canada Corporation exercise its right in a joint venture, the interests will become 65% Xstrata Canada Corporation and 35% Donner Metals Ltd. The other joint venture areas will remain at a 50%/50% interest until such time as Xstrata exercises its remaining bump-up rights.

Pursuant to the completion of the feasibility study on the Bracemac-McLeod Deposit, the South Flank joint venture area became a 65% Xstrata, 35% Donner joint venture with no further bump-up right to Xstrata. By extension, these interests were preserved in the formation of the Bracemac-McLeod joint venture area.

Under the MLOJVA, Xstrata Canada Corporation, through Xstrata Zinc Canada Division, has the right to be operator of any mining operations provided it holes at least a 50% interest in the governing joint venture. Xstrata also has a life-of-mine right to process and treat any Donner ore/concentrates produced from the Matagami property. It also has a life-of mine right to market metals produced from the property on behalf of Donner.

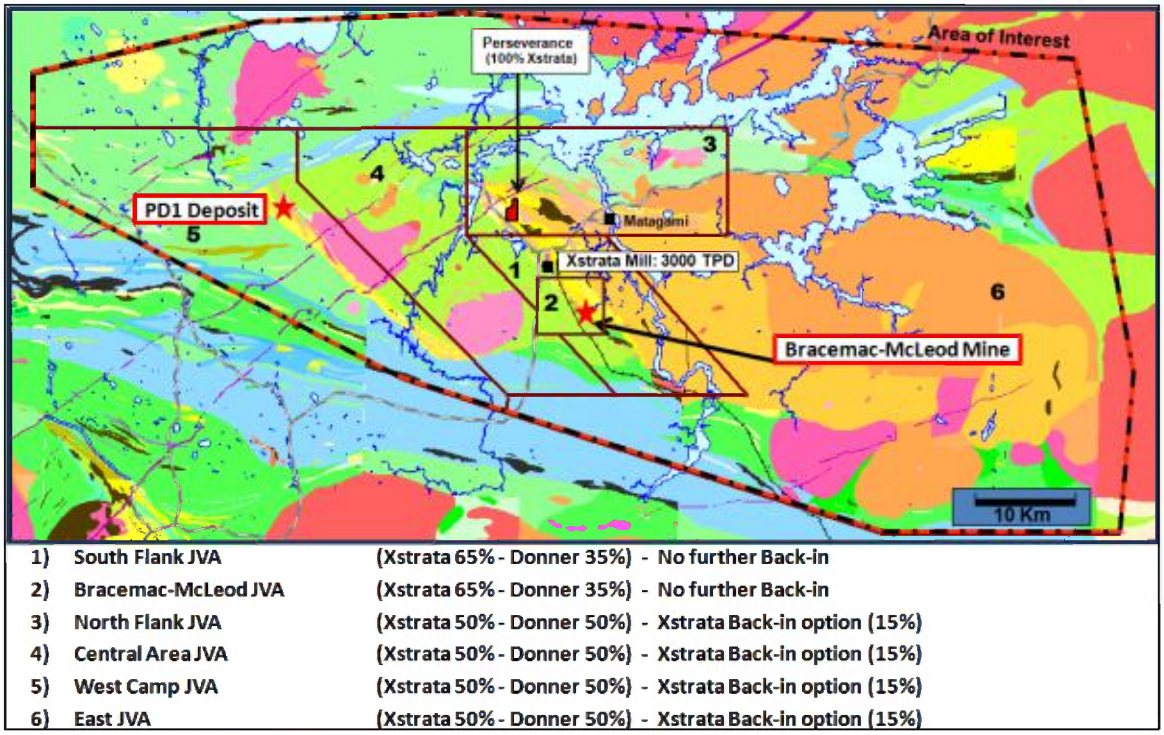


Figure 2-1: Map showing areas of governance under the MLOJVA.

2.1.2 PD1 Deposit: Property Purchase Agreement "PPA" (1976)

An underlying agreement to the MLOJVA is the Property Purchase Agreement dated March 1, 1976 between Orchan Mines Limited and Phelps Dodge Corporation of Canada (Phelps Dodge) (the **"PPA"**). This agreement is applicable to 9 mineral claims which cover the PD1deposit (**Table 2-1**) (**Figure 2-2**).

Table 2-1: PD1 deposit area - list of claims governed under the PPA.

Claim Number	Township	Area
4586493	La Gauchetière	PD 1 deposit
4609131	La Gauchetière	PD 1 deposit
5075408	La Gauchetière	PD 1 deposit
5075409	La Gauchetière	PD 1 deposit
5086183	La Gauchetière	PD 1 deposit
5086184	La Gauchetière	PD 1 deposit
5086185	La Gauchetière	PD 1 deposit
5229049	La Gauchetière	PD 1 deposit
5229050	La Gauchetière	PD 1 deposit

Xstrata Canada Corporation holds a 100% title to the 9 mineral claims which cover the PD1 deposit and it holds the rights and obligations applicable to Orchan Mines Limited under the PPA. The terms of the PPA with respect to these claims are:

- Phelps Dodge holds a 15% *net carried interest** on the first 1.6 million tons mined from the 9 mineral claims. This will increase to a 25% net carried interest after 1.6 million tons are mined.

  * Net carried interest in this case is defined as Net Proceeds** less capital expenditures, working capital and carrying charges.

  **Net Proceeds are defined as gross revenue less operating costs and both transfer and processing charges.

- Phelps Dodge is entitled to $400,000 in cash payments, paid in annual installments of $100,000, during each of the first four years of production from the property.

- Following production of the first 1.9 million tons from the property, Phelps Dodge may elect, within one year, to participate at 40% in any further development of the property by foregoing its net carried interest from the point of election.

2.1.3 Exploration and Development Agreement "EDA" (1980)

The property surrounding the 9 mineral claims that cover the PD1 deposit is governed by a 1980 exploration and development agreement (the "EDA") between Xstrata (successor of Noranda Exploration Company Limited) and Phelps Dodge Corporation of Canada (**Figure 2-2**). Under this agreement, Phelps Dodge has a right of first refusal on assignment of interest by Xstrata which it waved in 2007 to allow the property to be included under the MLOJVA. The agreement, as amended in 2007, provides that should a party's interest in the property decline to 10%, its interest will be converted to a 2% net smelter royalty. Current interests are 78.9% Xstrata Canada Corporation/Donner Metals and 21.1% Phelps Dodge. Phelps Dodge has elected to not to participate in any work plans proposed under the MLOJVA.

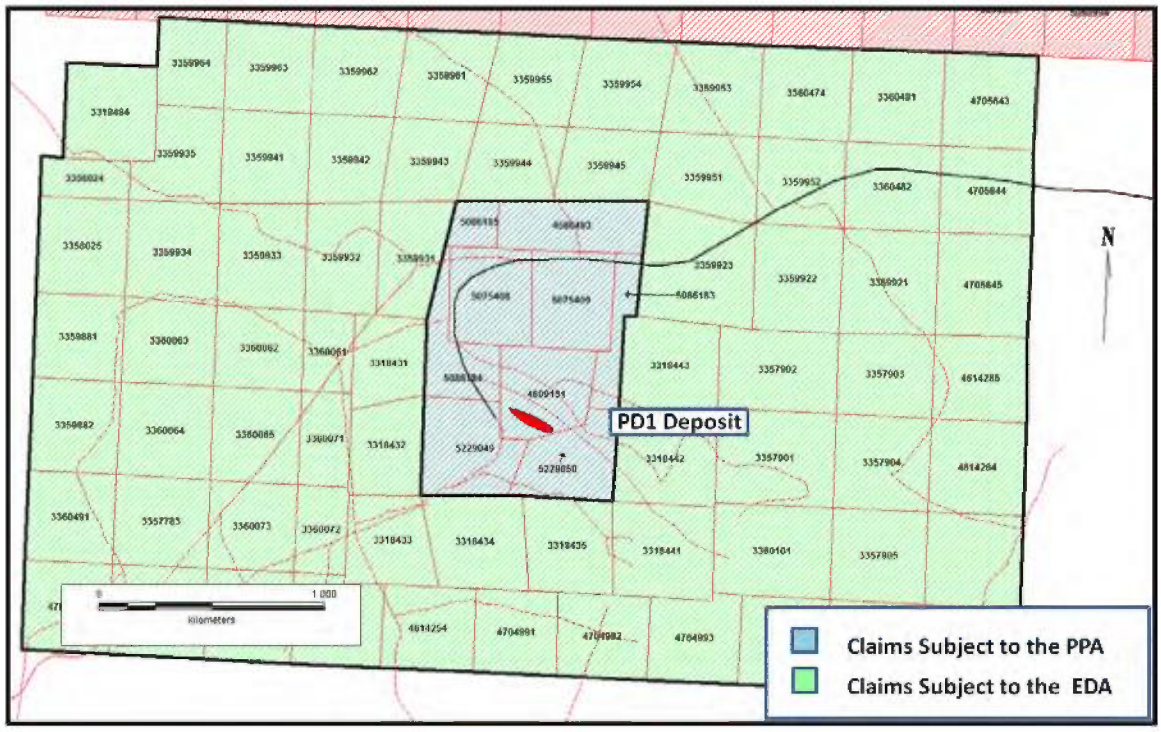


Figure 2-2: PD1 claim map and area of governance under the PPA and EDA.

2.1.4 Current Status of the Agreements

2.1.4.1 MLOJVA

The time line of important events concerning the MLOJVA is:

1. July, 2011 – the Bracemac-McLeod joint venture area is carved out of the South Flank joint venture area. The new joint venture area governs the development and mining of the Bracemac-McLeod deposit.
2. May 31, 2011- Concurrently with earn-in, interests in the South Flank joint venture area become a 65% Xstrata, 35% Donner on the basis of the feasibility study completed on Bracemac-McLeod by Xstrata (Coté & Lavigne, 2010).
3. May 31, 2011 – Donner completes its earn-in under the MLOJVA and five initial joint venture areas are formed with Donner sharing 50% interest with Xstrata.
4. February, 2011 - Xstrata initiates a feasibility study on the PD1 deposit located in the West Camp joint Venture area
5. In a press release dated January 14th, 2011, Donner reports that it has provided $24.9 million dollars towards its earn-in requirements and that it intends to complete its earn-in on or before May 31, 2011.
6. September 21, 2010 Xstrata completed a feasibility study on the Bracemac-McLeod Deposit, located in the South Flank joint venture area,

7. July 9, 2010 Commencement of development of the Bracemac-McLeod mine is announced.
8. 2010: Xstrata Zinc and Donner discover the McLeod Deep zone
9. 2007 – 2008: Xstrata Zinc and Donner discover the Bracemac-McLeod zone
10. May, 2006 - MLOJVA signed 6.

2.1.4.2 PPA (PD1 Deposit)

At the time of writing, the Property Purchase Agreement is in good standing. Xstrata and Donner hold equal 50% interest, subject to the terms of the PPA

2.1.4.3 EDA

As of the time of writing, Xstrata holds a 39.45%, Donner holds a 39.45% interest and Phelps Dodge holds a 21.1% interest. Phelps Dodge has diluted its interest by non-participation in the work conducted to date by Xstrata Zinc and Donner.

2.1.5 Interaction of Agreements

The interaction of the MLOJVA with the PPA and the EDA has implications ultimate interest of Xstrata and Donner. The PPA may impact the potential share of costs and profits from any future production from the PD1 deposit.

For completeness, the following table summarizes the agreements and their interactions.

Table 2-2: Relationship between agreements.

JV area	Underlying Agreements	Current Xstrata Interest	MLOJVA Initial JV interest Donner initial interest	MLOJVA Initial JV interest Xstrata	MLOJVA Bump-up JV interest	
South Flank		100%	50%	50%	35%	65%
North Flank		100%	50%	50%	Xstrata holds a 15% Bump-up right	
Central Camp		100%	50%	50%	Xstrata holds a 15% Bump-up right	
East		100%	50%	50%	Xstrata holds a 15% Bump-up right	
West Camp		100%	50%	50%	Xstrata holds a 15% Bump-up right	
PD1Deposit	**PPA**: 15% NCI held by Phelps Dodge and, $400K cash payments to Phelps Dodge	100%*	50%*	50%*	Xstrata holds a 15% Bump-up right. Both parties subject their prorata share in relation to the terms of the PPA.	
PD1 Exploration	**PDEDA:** Phelps Dodge current interest 21.1% Parties interest will convert to a 2%NSR should it dilute to 10%	78.9%	39.5% **	39.5% **	Xstrata holds a 15% Bump-up right to Donner's interest.	

2.1.6 Project Operator

Under the MLOJVA, Xstrata Zinc is the operator for the Matagami project, which includes the PD1 deposit, and is responsible for both fieldwork and resource evaluation including, but not limited to, sampling, submittal of samples for assay, assay verification, metallurgical evaluation and QA/QC.

2.2 Sources of Information

This report relies on technical and scientific data provided to Donner by Xstrata Zinc. Gilles Roy (géo.), Senior Project Geologist and Patrick Carr (géo.), Geologist are the Qualified Persons for Xstrata Zinc who prepared or supervised the preparation of the technical data presented is specifically identified sections of this report, pursuant to Section 5.5(3) of the Instrument (**Certificates and consents of qualified persons for Xstrata Canada Corporation – Xstrata Zinc Canada Division**).

The author of this Report has visited the Matagami Camp numerous times since 1987 through employment with Noranda Inc. and its successors. These visits included technical tours of most of the past producing mines (Mattagami Lake, Isles Dieu, Norita, Norita East, Bell Allard and Perseverance). The author has participated on the management and technical team related to the MLOJVA as representative in the capacity of Vice President of Exploration for Donner since 2006 and has made numerous visits to the property on an approximate quarterly basis. The last visit to the property was in October, 2012.

The MLOJVA is guided by a joint team comprised of Xstrata Zinc and Donner personnel who are responsible for the technical guidance of the project and both program and budget approval. The MLOJVA Exploration Technical Committee team is composed of the following individuals:

Exploration:

Gilles Bouchard (ing.)	Exploration Manager	Xstrata Zinc
Gilles Roy (géo)	Senior Project Geologist	Xstrata Zinc
Michel Allard (ing.)	Senior Geophysicist	Xstrata Zinc
Michel Dessureault (ing), M.Sc.	Senior Project Geologist	Xstrata Zinc
Patrick Carr	Geologist	Xstrata Zinc
Harvey Keats	CEO	Donner
Robin Adair (P. Geol), M.Sc.	Geologist	Donner

Feasibility Projects:

Aline Coté	Project Director	Xstrata Zinc
Gilles Roy - PD1	Senior Project Geologist	Xstrata Zinc
Ron Tessier	Engineer	Donner
Robin Adair	Geologist	Donner

The following individuals comprise the operations team who are supervised by the Qualified Persons for Xstrata Zinc.

Xstrata Qualified Persons (PD1 Deposit)

Gilles Roy, (géo.)	Senior Project Geologist
Patrick Carr, (géo.)	Geologist

Data Validation:

Gilles Roy, (géo.)	Senior Project Geologist
Patrick Carr, (géo.)	Geologist

Geophysics Surveys, Interpretation and Targeting

Michel Allard (ing), M.Sc.	Senior Geophysicist

Drillhole Engineering

Gilles Roy, (géo.)	Senior Project Geologist
Patrick Carr, (géo.) Ph.d.	Geologist

Core Logging:

Patrick Carr (géo.)	
Mélanie Gagnon,	Géologue stagière

RQD:

Denis Thériault,	Technician
Gérald Gauthier,	Technician

Reporting:

Gilles Roy
Patrick Carr,

Resource Calculation:

Gilles Roy

Peer Reviewer (Resource Calculation):

Aline Coté	Project Director - Advanced projects

Assays and QA-QC:

Patrick Carr

Geological Interpretations:

Patrick Carr (PD1)
Gilles Roy

Land Tenure:

Tony Masciotra, Gilles Roy, Michel Dessureault

2.3 Abbreviations

AA	atomic absorption spectroscopy
Ag	silver
Au	gold
BHPEM	Borehole pulse electromagnetic
°C	degree Celsius
cm	centimeter
cm^2	square centimeter
COV	coefficient of variation (=standard deviation/mean)
Cu	copper
d	day
DDH	diamond drillhole

EM	electromagnetic
BHEM	bore hole electromagnetic survey
g	grams
g/t	gram(s) per tonne
ha(s)	hectare(s)
hr	hour
kg	kilogram(s)
km	kilometre(s)
km2	square kilometre
L	liter
M	mega (million)
m	metre(s)
m^2	square metre
m^3	cubic metre
min	minutes
mm	millimetre(s)
Pb	lead
ppb	parts per billion
ppm	parts per million
QA/QC	Quality Assurance/Quality Control
QP	qualified person
s	second
SG	specific gravity
t	tonne(s)
tpa	metric tonne per year
tpd	metric tonne per day
µm	micron
µg	microgram
XRF	X ray fluorescence spectroscopy
Zn	zinc

Units of measurement used in this report conform to the SI (metric) system. All currency in this report is Canadian dollars (CDN$) unless otherwise noted.

2.4 Project Specific Definitions

Listed below are definitions that are specific nomenclature unique to the Matagami area and used throughout this technical report.

Pipe Facies: Pipe or pipe facies is defined as a funnel-shaped zone of alteration characterized by the acute development chlorite and/or talc with localized sulphide stringers, magnetite, and silica that obliterates primary textures of the original rock in which it occurs (Beaudry and Piché - unpublished field trip guide). Pipe facies ("Pipe") is developed within the core of the hydrothermal system where fluid passage was focused and sustained over a period of time along syn-volcanic structures. It is characterized by funnel-shaped alteration in the strata deposited prior to hydrothermal activity and commonly cuts stratigraphy at high angles. It characteristically

occurs below massive sulphide deposits and is therefore a strong indication of sulphide deposition for exploration purposes.

Proximal Pipe Facies: Proximal pipe facies is defined on the basis of variable chlorite alteration of existing strata by hydrothermal fluids in a larger area surrounding hydrothermal vent sites characterized by Pipe facies (Beaudry and Piché - unpublished field trip guide). Proximal pipe facies suggests varying degrees of influence by hydrothermal fluids and is suggestive of the presence of hydrothermal activity.

Key Tuffite: Name given to a camp-wide stratigraphic marker horizon that occurs at the top of the Watson Lake Formation and represents a hiatus in the deposition of volcanic material, during which hydrothermal venting activity occurred on the paleo sea floor at throughout the Matagami Camp. It is described as millimetre-sized laminations of gray-blue chert with a possible tuffaceous component and lesser sulphide minerals. The majority of sulphide deposits in the Matagami Camp are located at or immediately below the Key Tuffite.

Tuffite: Other chemical chert/silica $\pm$ tuffaceous horizons (may or may not comprise a stratigraphic marker horizon) that represent a hiatus in deposition of volcanic material. Tuffites may be very similar to the Key Tuffite. Significant mineralization is now demonstrated to occur in at least two tuffite horizons situated stratigraphically above the Key Tuffite (e.g. Bracemac and Upper Bracemac zones).

South Flank, North Flank, West Camp: Regional names given to the three belts where the Watson Lake- Key Tuffite - Wabassee succession comes to surface and where mineralization has been demonstrated. They are divided on a geographical basis, but contain unique Matagami-type geological characteristics.

Central Camp: Region between the South Flank and West Camp belts that is poorly understood geologically. This area contains predominantly Wabassee Group rocks.

Daniel Belt: A belt of volcanic and volcaniclastic rocks that cross cuts stratigraphy in the Matagami camp.

3 RELIANCE ON OTHER EXPERTS

The Author is relying on technical and scientific data provided to Donner by Xstrata Zinc Qualified Persons pursuant to Section 5.5(3) of the Instrument. Gilles Roy (géo.), Senior Project Geologist, and Patrick Carr (géo.), Geologist, are the Qualified Persons for Xstrata Zinc who prepared or supervised the preparation of the technical data supplied to Donner Metals for this report.

The Author is also relying on the expert knowledge, reporting and opinion of Giovanni Di Prisco, (Ph.D. P.Geo., Consulting Geologist – Mineralogist for Terra Mineralogical Services) in relation to predictive metallurgical analyses of selected samples of mineralization from the PD1 deposit (Di Prisco, 2010). The predictive metallurgical report on these samples is provided in **Appendix V.** This report and excerpts from it are reproduced with permission of the author.

The drillhole engineering, core sampling, QA/QC and assays contained in the mineral resource estimates and or any validation of any component in this process were performed under the responsibility and guidance of qualified persons from Xstrata Zinc. Zorayda Consulting does not guarantee the accuracy of Xstrata Zinc mineral resource estimate, as Zorayda Consulting did not participate in the resource evaluation. While exercising all reasonable diligence to check and confirm their accuracy, Zorayda Consulting has relied upon data presented to Donner by Xstrata Zinc.

4 PROPERTY DESCRIPTION AND LOCATION

The Matagami Project is located 183 km by paved road north of Amos, 650 km northwest of Montreal (**Figure 4-1**). The PD1 deposit is located in La Gauchetière Township, Quebec on NTS Sheet 32E/16, and centered on UTM coordinates 273710E, 5516700N (NAD83 Zone 18).

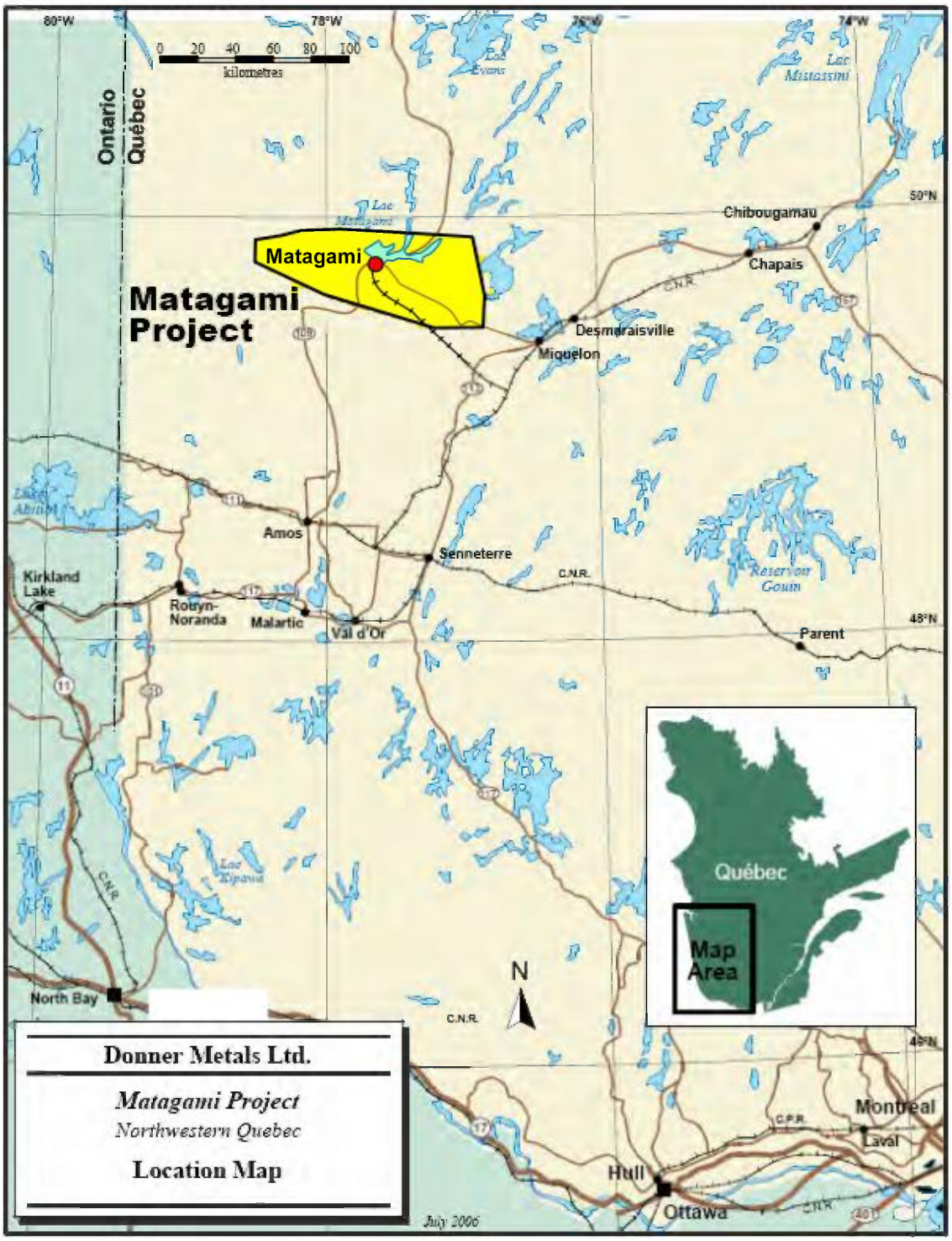


Figure 4-1: Location Map, after (Cook & Chamois, 2006).

The PD1 deposit and its depth extension are covered by 9 contiguous mineral claims which are currently owned by Xstrata Canada Corporation on a 100% basis and subject to the terms of the purchase agreement with Phelps Dodge Corporation of Canada (**Table 4-1**). These claims are surrounded by claims which are currently owned by Xstrata Canada Corporation/Donner (78.9%) and Phelps Dodge (21.1%) without royalties to any third parties or other third party liabilities (**Figure 4-2**)

Table 4-1: PD1 Deposit claims

Claim Number	Township	Date	Area
4586493	La Gauchetière	13-Mar-89	PD 1 deposit
4609131	La Gauchetière	26-Aug-91	PD 1 deposit
5075408	La Gauchetière	17-Sep-91	PD 1 deposit
5075409	La Gauchetière	17-Sep-91	PD 1 deposit
5086183	La Gauchetière	22-Oct-91	PD 1 deposit
5086184	La Gauchetière	22-Oct-91	PD 1 deposit
5086185	La Gauchetière	22-Oct-91	PD 1 deposit
5229049	La Gauchetière	18-Feb-00	PD 1 deposit
5229050	La Gauchetière	18-Feb-00	PD 1 deposit

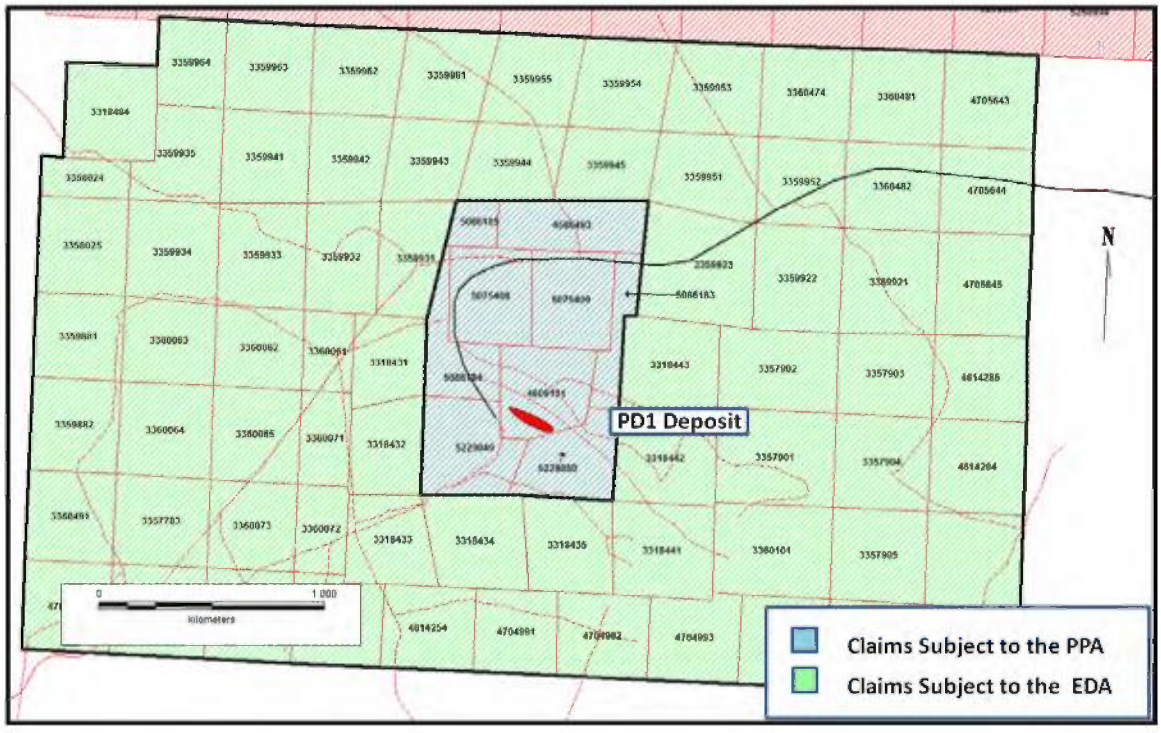


Figure 4-2: Claim map of the PD1 deposit and area.

Map showing the location of PD1 Deposit and related mineral claims (courtesy of Xstrata Zinc)

Independent verification and audit of mineral title related to these claims has not been conducted as part of this technical report and the author is relying on information provided to Donner from Xstrata Zinc who operates the project.

5 ACCESSIBILITY, CLIMATE, AND INFRASTRUCTURE

The region has been dependent primarily on mining with secondary logging since 1963 and is well served by highway, railroad, airport and electric power infrastructure. Xstrata Zinc currently operates its wholly owned Perseverance Mine which is supported by the 3000 tonne per day Matagami Mill and tailings disposal site. Electricity to the mine and the town of Matagami is supplied by Hydro Quebec from the Figuery sub-station that is powered by the Rapid 7 dam and/or the James Bay hydroelectric complex.

The PD1 deposit is located 38 kilometres west of the town of Matagami and 31.4 kilometres west-northwest of the currently operating Matagami Mill (**Figure 5-1**). Access to the site is gained via a paved and gravel, all weather road that leaves provincial Highway 109 approximately 8 kilometres south of the town of Matagami and 2 kilometres from the Matagami Mill. From highway 109, access consists of 7.5 kilometres of paved road and 27.5 kilometres of gravel road. Total distance to the Matagami Mill by road is 37.5 kilometres.

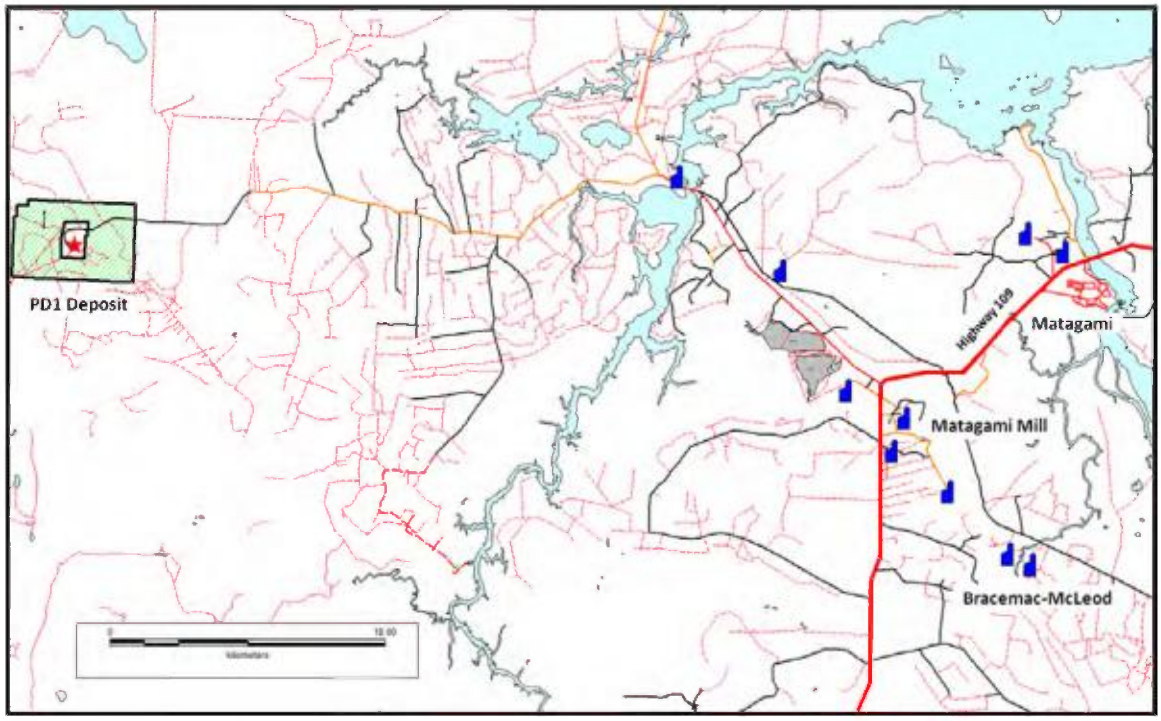


Figure 5-1: PD1 Location map

The Matagami area is characterized flat, gently undulating terrain. At the PD1 deposit, maximum relief is 70 metres with average terrain that is 10 to 30 metres above the local rivers and streams at a mean elevation of 265 metres above sea level. The area is covered by black spruce, balsam fir, birch, and poplar underlain by moss and lichens in organic soils. Pleistocene clays cap a

Quaternary sequence of poorly-sorted glacial deposits overlying the relatively impermeable Archean basement rocks. High precipitation, low relief, and poor drainage result in more than 50% of the surface being characterized by bogs and swamps.

The climate is typified by a yearly average temperature of 0°C, with extreme seasonal variations. On average there are 133 days below zero (30 days below –30°C). The average high in July is 23°C and the average low in January is –27°C. Average precipitation is ~900 mm per year, including 314 centimetres of snow. Average snow depth in February is 65 cm.

Mining and exploration activities at the PD1 deposit and area can occur year round. Exploration activities are restricted during a short period at spring break-up when the ground becomes soft.

6 HISTORY

6.1 Regional History

Mining has been active in the Matagami area since 1960. Historical production has come from the 10 mines listed in (**Table 6-1**). The Perseverance Mine (not subject to the MLOJVA – 100 % Xstrata) is currently producing with expected mine life to early 2013 (**Table 6-2**). The Bracemac-McLeod mine is under construction and scheduled for production in early 2013 (Coté & Lavigne, 2010) (**Table 6-3**). Inferred and indicated resources currently not in the mine plan for Bracemac-McLeod are identified in **Table 6-4**, along with measured and indicated resources reported herein for the PD1 deposit

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Table 6-1: Historical production from the Matagami Camp

Historical Production (Properties are included in the Donner-Xstrata Option and Joint Venture Agreement)								
	Deposit	**Production**	**(Mt)**	**% Zn**	**% Cu**	**Ag g/t**	**Au g/t**	**Depth (m)**
South Flank	Matagami Lake	1963-1988	25.64	8.20	0.56	20.91	0.41	30 - 228
	Orchan	1963-1982	4.51	9.84	1.02	37.03	0.51	31 - 366
	Isle Dieu	1989-1997	3.05	17.85	1.01	76.63	0.46	320 - 610
	Bell Allard South	1968-1970	0.23	9.24	1.14	37.03	0.51	18 - 70
	Bell Allard	1999-2004	3.59	13.67	1.25	40.55	0.69	950 - 1025
North Flank	Norita	1976-1997	3.89	3.94	1.83	25.84	0.59	10 - 689
	Norita East	1992-1996	1.08	10.21	0.80	41.42	0.74	600 - 900
	New Hosco	1963-1970	1.83	1.73	1.73	10.29	0.34	9 - 305
	Garon Lake	1968-1970	0.47	2.17	1.46	10.29	0.34	15 - 250
	Radiore 2	1979-1980	0.14	1.34	1.57	8.57	0.31	Surface

Table 6-2: Current producing mines.

Mine Reserves (100% Xstrata Canada Corporation) (Not included in the Donner-Xstrata MLOJVA)								
	Deposit	**Production**	**(Mt)**	**% Zn**	**% Cu**	**Ag g/t**	**Au g/t**	**Depth (m)**
South Flank	Perseverance (100% Xstrata)	2008-present	5.12	15.82	1.24	29.00	0.38	30 - 300

Table 6-3: Mines under development.

Proven and Probable Reserves (Under the MLOJVA – Donner to earn a 35% interest)								
	Deposit	**Production**	**(Mt)**	**% Zn**	**% Cu**	**Ag g/t**	**Au g/t**	**Depth (m)**
South Flank	Bracemac McLeod	Scheduled 2013	3.73	9.60	1.26	28.25	0.43	30-900

Table 6-4: Resources not currently under development.

Undeveloped Resources – Under the MLOJVA (NI 43-101 Compliant)								
	Deposit	**Resource Classification**	**(Mt)**	**% Zn**	**% Cu**	**Ag g/t**	**Au g/t**	**Depth (m)**
South	McLeod West and Deep	Inferred	2.63	8.78	1.31	38.83	1.06	600-1200
Flank	McLeod Copper zone	Indicated	0.24	0.96	1.25	7.80	0.19	600-700
West	PD1 (Adair, Technical Report on the Resource Calculation for the PD1 Deposit, Matagami Project, Quebec, 2011)	Measured	0.59	4.3	0.8	19.6	0.1	25-100
Camp		Indicated	1.14	4.7	1.33	20.0	-	100-515

6.2 PD1 Deposit Area - History

2012: Xstrata/Donner completed one exploration drillhole (PD1-12-45) 1.7 kilometres northwest of the PD1 deposit and one drillhole (PD1-12-44) 0.47 kilometers northeast of the deposit.

2011: Xstrata/Donner completed one exploration drillhole (PD1-11-43) completed 1.1 kilometres south of the PD1 deposit

2011: Feasibility study initiated by Xstrata Zinc on the open pit potential of the PD1 deposit.

2011: NI 43-101 compliant resources calculated for the PD1 deposit.

2010: Xstrata and Donner completed an InfiniTEM ground geophysical survey over the PD1 deposit and regional area. A 24 drillhole definition/confirmation program was conducted in the upper portion of the deposit between surface and -150 metres with the objective of defining a measured resource. One exploration drill hole (PD1-10-21) was completed 0.7 kilometres to the west of the PD1 deposit.

2009: Xstrata Zinc and Donner flew a ZTEM airborne survey which covered the PD1 deposit area and completed 3 drill exploration holes totaling 928 metres along strike from the PD1 Deposit in follow-up of ZTEM targets.

2007: Xstrata Zinc and Donner completed 2 drill exploration holes totaling 739.7 metres on the exploration claims surrounding the PD1 deposit.

2007 MLOJVA amended to include the PD1 Deposit and surrounding claims.

2006 The MLOJVA agreement was signed with Donner Metals Ltd.

1991: Pre-Feasibility study on the PD1 Deposit conducted by Normand Lécuyer Enterprise Inc. and D.R. Melling Geological Consulting and Research Services (Lecuyer & Melling, 1991).

1984: Noranda completed 6 drillholes that investigated the down-dip extent of the PD1 deposit (2 holes), the possible strike extension of the deposit (3 holes) and regional drilling (1 hole).

1980: Agreement signed between Noranda Exploration Company Limited and Phelps Dodge governing the exploration and development of the claims immediately surrounding the 9 claims covering the PD1 deposit.

1979: Noranda Mines Limited and Orchan Mines were amalgamated with Noranda being the successor company.

1976-1979: A ramp collar was constructed on the property along with some initial surface foundations for mine facilities.

1976: Purchase agreement signed between Orchan Mines Limited and Phelps Dodge Corporation of Canada and 5 further delineation holes were drilled in the upper portions of the deposit in 1976 and 1977.

1973-1974: Initial exploratory drilling on airborne targets discovered massive sulphides and the Phelps Dodge property was staked to cover the mineralization and the project strike potential. A total of 43 drillholes for 13,064 metres were completed into mineralization, largely delineating the PD1 deposit boundaries except at depth.

1972: Phelps Dodge conducted an airborne electromagnetic survey over the area and subsequent drilling was recommended.

7 GEOLOGICAL SETTING

7.1 General Camp Geology

The Matagami VMS Camp is located in western Quebec in the Abitibi Greenstone Belt of the Superior Province (**Figure 7-1**). The Abitibi Greenstone Belt is interpreted as an ancient back-arc basin or basins characterized by a bimodal, mafic dominated volcanic suite comprised of

basalts and lesser rhyolites that were deposited between ±2.8 and ±2.5 Ma (Mortensen, 1993) (Ross, McNicoll, Debreil, & Roy, 2012, in press). Metamorphism is greenschist facies. This belt covers a wide area in both Quebec and Ontario and is known for the prolific development of VMS deposits among other deposit types.

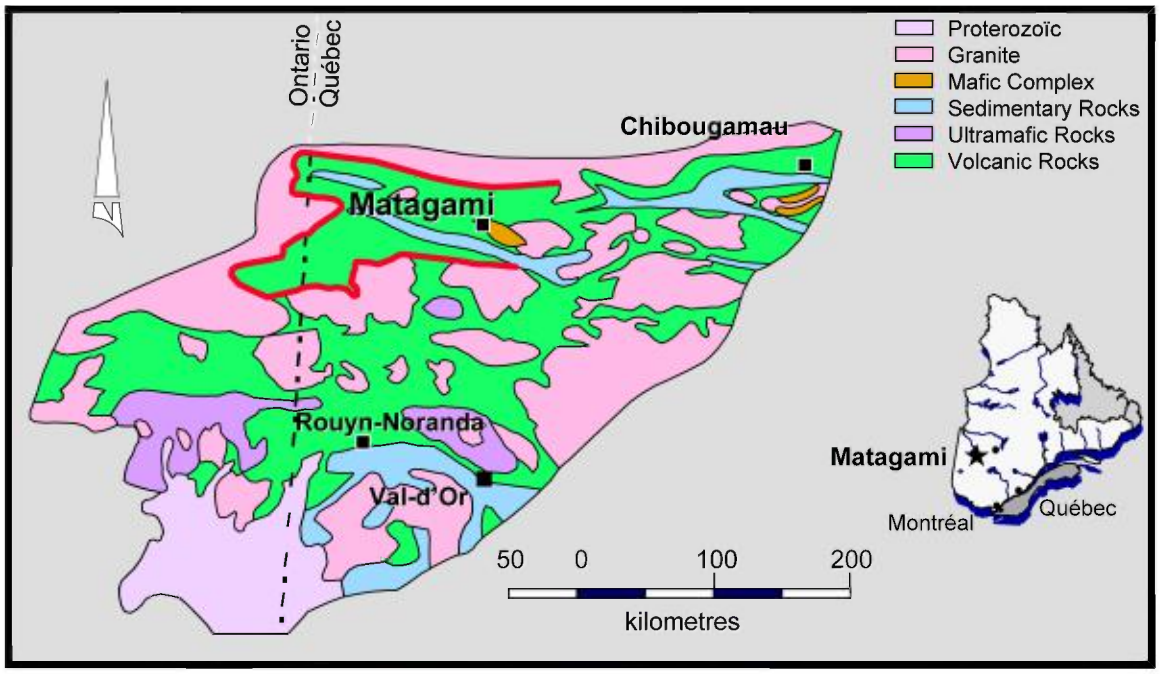


Figure 7-1: Regional geology and location Abitibi Greenstone Belt.

In the Matagami area, an extensive sheet of thick glacial till covers the region and results in very little outcrop exposure. Geological understanding comes from drillholes, underground mapping and interpretation of geophysics. The geological setting is typical of Archean VMS terrains within the Abitibi Greenstone Belt. It is characterized by submarine volcanic sequences that filled a large, regional synvolcanic basin within which, second and third order sub-basins were developed and controlled by synvolcanic faulting. The latter strongly influenced the distribution of sulphide deposits and the mineralizing trends around Matagami. The sequence has been intruded by synvolcanic and post volcanic intrusions of various types.

Rock types are identified by physical mapping, core logging and geochemistry with the latter providing the final reference on wich rock classification is made. There relative stratigraphic and chemostratigraphic groupings are based on interpretation of maps, drill sections, underground geological data and an increasing library of age dates. Geochemistry in particular has provided an impressive database for the Matagami Camp consisting of approximately 27,000 samples.

With geochemistry supporting mapping and core logging, stratigraphic relationships and correlations are continuously being refined (**Figure 7-2** and **Figure 7-3**).

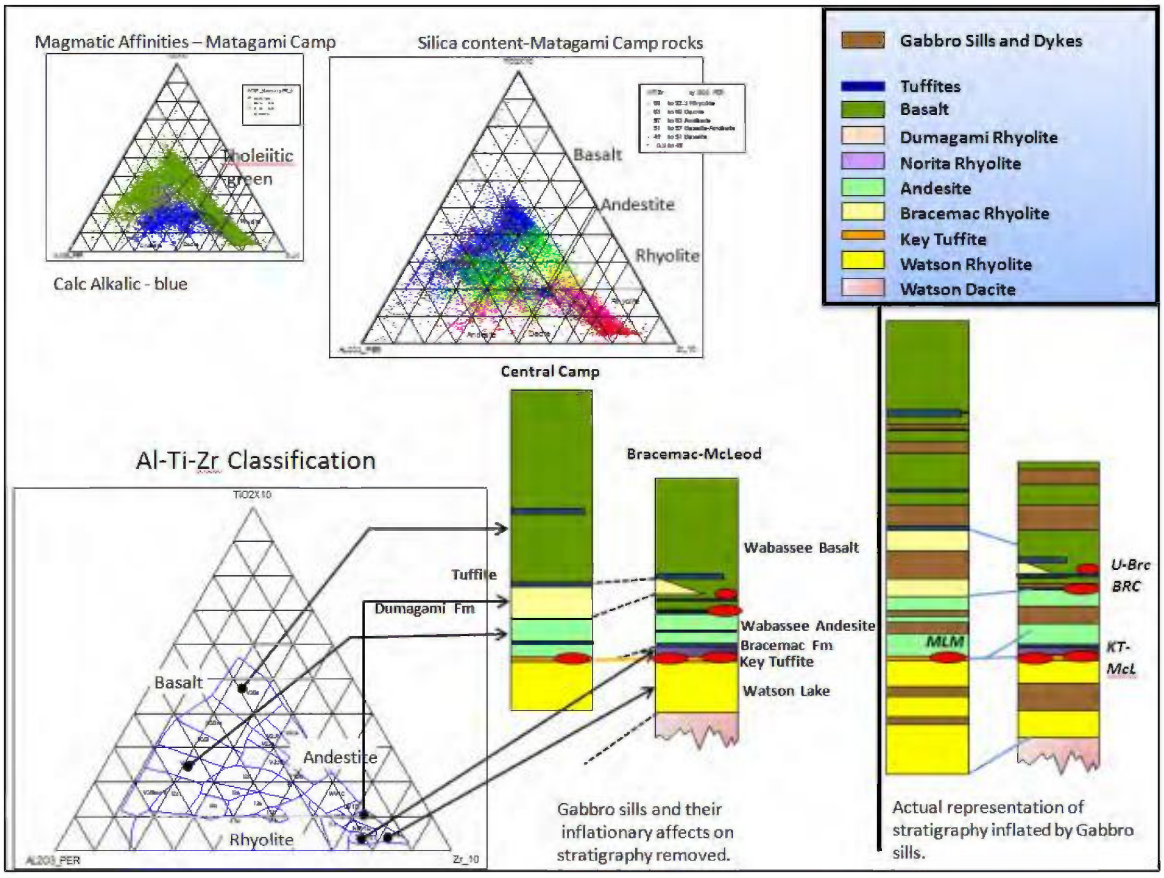


Figure 7-2: Geochemistry and stratigraphy of the Matagami camp (G. Roy and M. Dessureault, pers. communication).

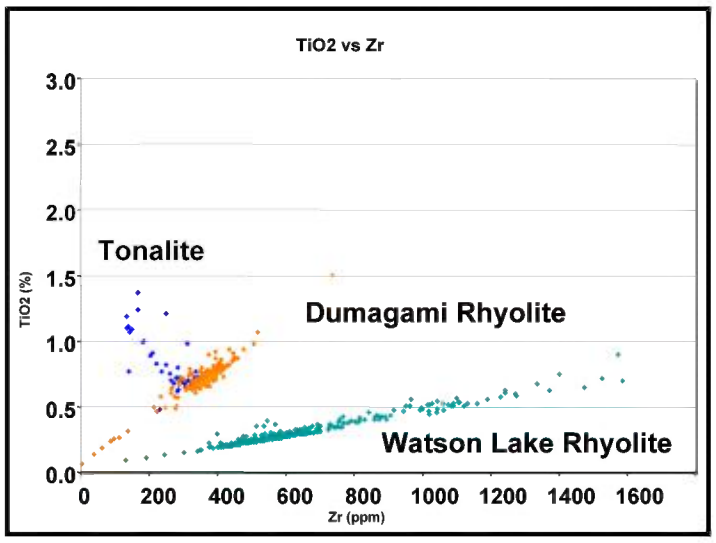


Figure 7-3: Geochemical discrimination of the Watson Lake Rhyolite, the Dumagami Rhyolite and tonalite intrusions.

The Matagami Camp is typified by extensive volcanic rocks that pass upward from felsic rocks (Watson Lake Group) to volumetrically more abundant mafic rocks (Wabassee Group) (**Figure**

7-2). The transition between these two groups occurs in three belts, the South Flank belt, North Flank belt and West Camp belt (**Figure 7-4**). The composition of the volcanic suite is tholeiitic (MacGeehan, 1978) (Dessureault, pers. communication). The volcanic successions were synvolcanically intruded by the large Bell River layered complex, gabbro sills and dykes and lesser intermediate to felsic dykes and sills. Stratigraphy in the Matagami region is relatively layer-cake and typically progresses from a lower sequence of felsic volcanic rocks (rhyolite/dacite – Watson Lake Group) to a very thick upper sequence of mafic volcanic rocks (andesite/basalt – Wabassee Group) (**Figure 7-5** and **Figure 7-6**). Interlayered with the volcanic rocks are tuffite beds, some of which can be laterally extensive and act as stratigraphic marker horizons. The sequence is intruded in all areas by synvolcanic, gabbro sills and dykes. The sills are commonly sub discordant and cut stratigraphy at low angles 0° to 10°). The impact of intrusion of the gabbro sills is to inflate the stratigraphic succession as much as 30-40% (**Figure 7-2**). In some areas there is an overlapping of the stratigraphic units above and below a gabbro sill (e.g. at the Bracemac deposit, key tuffite is intersected both above and below a gabbro sill). It is also likely the gabbro dykes that fed the sills (feeder dykes) are present but poorly recognized in drilling. Felsic intrusions, generally dykes, occur locally and tend to cluster around areas of VMS activity. Both of these intrusion sets clearly post-dated the hydrothermal activity responsible for sulphide deposition in the South Flank. An ultramafic intrusion measuring 0.75 by 0.8 kilometres is present in the immediate vicinity of the original Matagami Lake deposit. It is thought to be related to the Bell River complex and to have postdated deposition of the Mattagami Lake deposit (G. Roy, pers. communication). Late Archean, post-volcanic diorite/granodiorite intruded this succession and were later followed by the intrusion of Proterozoic diabase dykes (Beaudry & Gaucher, 1986).

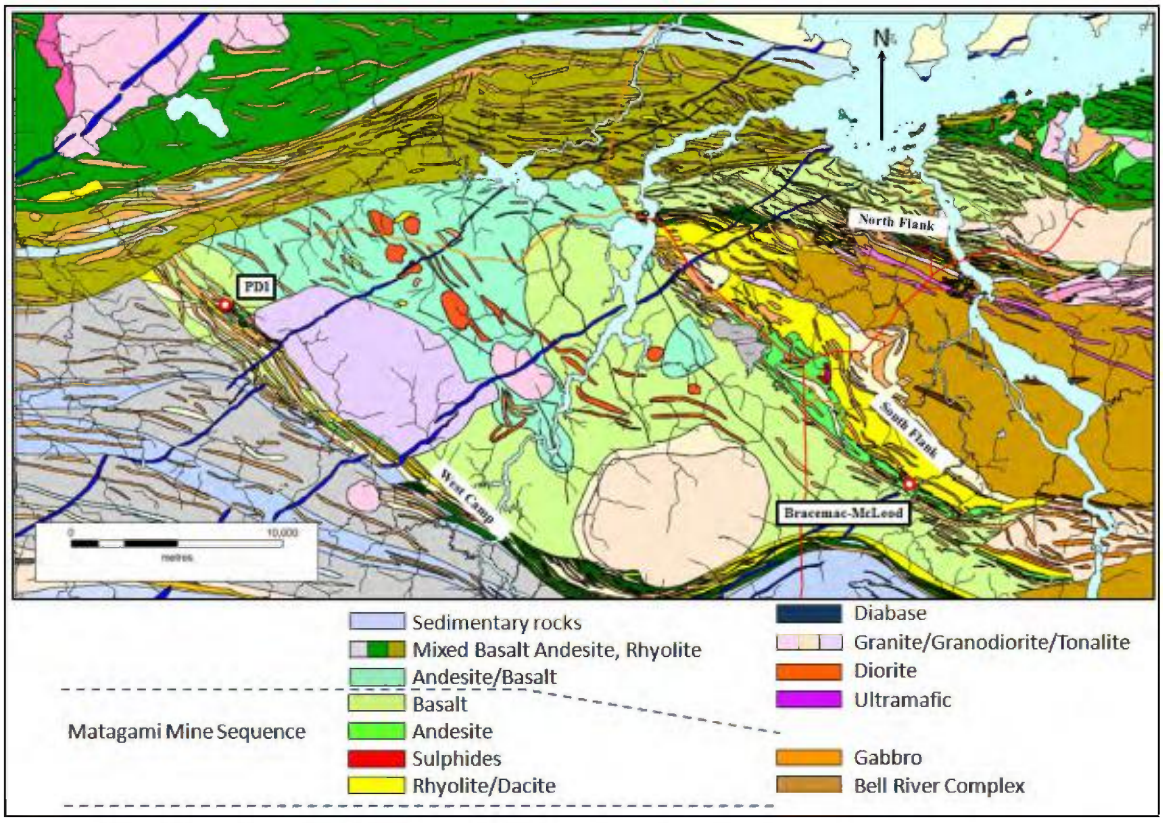


Figure 7-4: Matagami Camp geology after (Pilote, Debreil, Williamson, Rabeau, & Lacoste, 2011).

Deposition of the volcanic rocks was originally dated at 2724.5 ± 1.8 Ma (Mortensen, 1993). The timing of volcanism at the transition between the Watson Lake Group and the Lowermost Wabassee is constrained between 2725.9±0.8 Ma and 2724.9±0.7Ma (Ross, McNicoll, Debreil, & Roy, 2012, in press). The volcanic sequence was intruded by the giant Bell River Complex which covers an area of 750kms^2 and which has returned age dates of 2724.6 +2.5/-1.9 Ma (Mortensen, 1993), identical to those returned from the basal volcanic succession. This age relationship and the compositional similarity of the Bell River with the volcanic rocks in which it intrudes (Maier, Barnes, & Pellet, 1996) make it the likely heat source for sulphide producing, hydrothermal activity in the Matagami Camp (Carr, Cathles, & Barrie, 2008).

7.2 Matagami Camp Stratigraphy

The stratigraphic succession present in the South Flank is used as the principle reference section for the Matagami Camp (**Figure 7-5**and **Figure 7-6**).

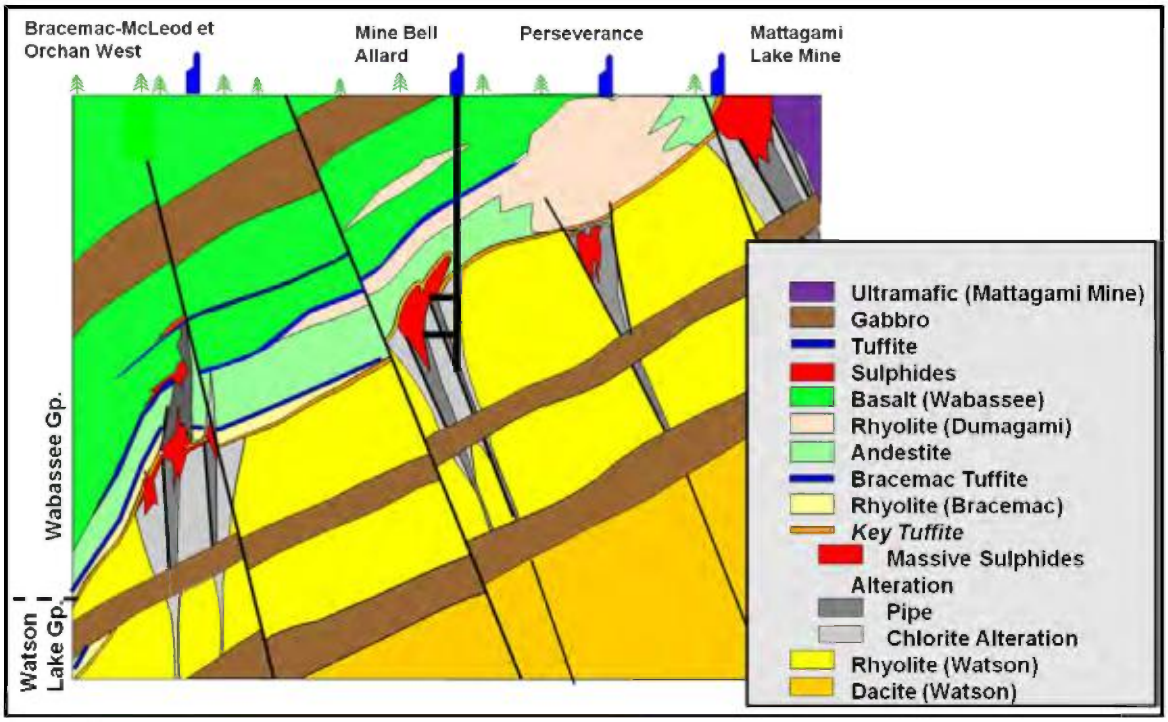


Figure 7-5: Schematic cross section of the South Flank stratigraphy and related mineralization

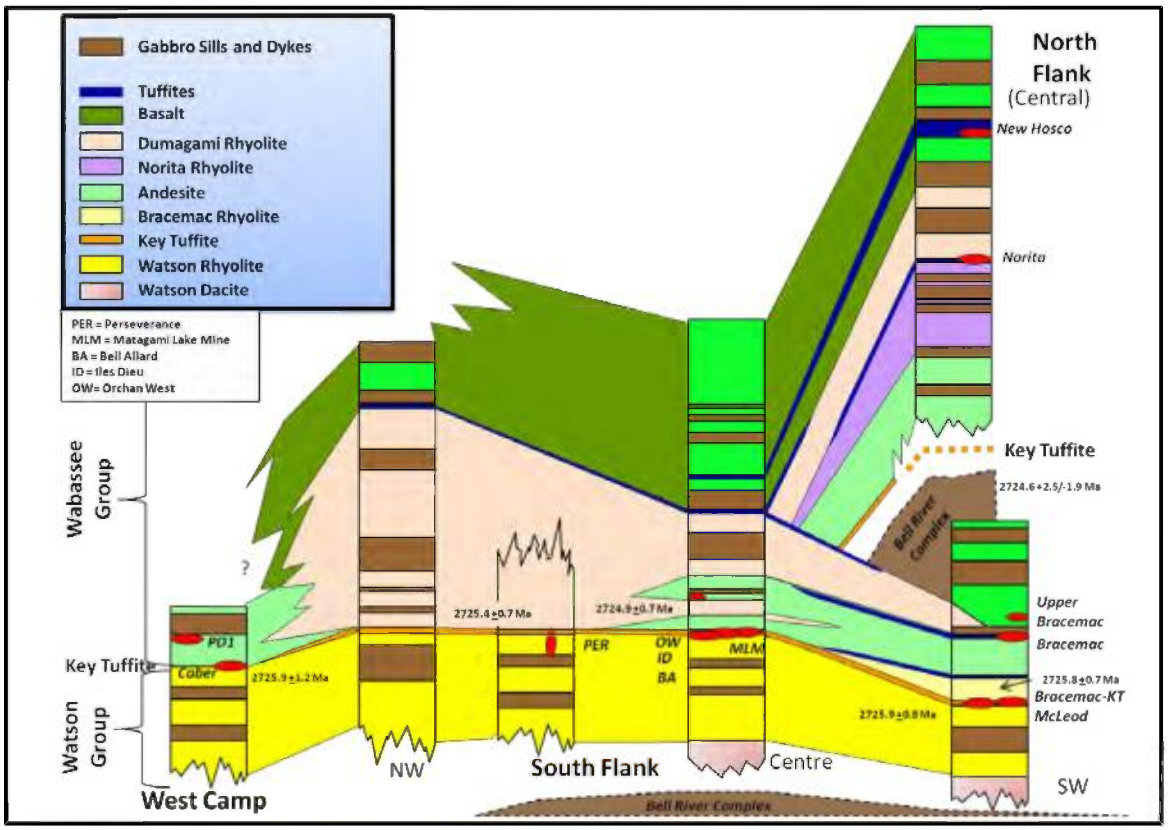


Figure 7-6: Schematic stratigraphic representation of the Matagami Camp – South Flank, North Flank and West Camp areas, modified after (Roy, Dessureault, Genna, & Faure, 2010)

7.2.1 Watson Lake Group

The lowermost unit in the Matagami sequence is the Watson Lake Formation which is composed dominantly of felsic volcanic rocks (dacite and rhyolite) dated using U-Pb in zircons (Mortensen, 1993) and 2724.6±2.5 Ma and 2725.9±0.8 Ma (Ross, McNicoll, Debreil, & Roy, 2012, in press)using high precision U-Pb zircon dating. The lowermost unit in the Watson Lake Formation is dacite which compositionally grades upward into rhyolite (Clark, 1983) and (Piché, Guha, & Daigneault, 1993) (**Figure 7-6**).

7.2.2 Key Tuffite

Conformably overlying the Watson Lake Formation is the Key Tuffite. It is a distinct horizon composed of laminated to finely-laminated grey, green-grey chert/tuff containing localized disseminated sulphides (pyrite, sphalerite, and chalcopyrite). It is a marker horizon that occurs over an extensive area within the Matagami Camp and has both a distinct time-stratigraphic and chemical affinity to hydrothermal activity that produced the majority of the sulphide deposits in the region during a hiatus in the deposition between the Watson Lake Group and the Wabassee Group. The Key Tuffite ranges in thicknesses up to 10 metres and its lithic chemistry indicates contribution of material from both the Watson Lake rhyolites and the overlying andesitic rocks of the Wabassee Group (Liaghat & MacLean, 1992). It demonstrates a unique chemical character with notable enrichment of silica and iron (pyrite) with a ubiquitous 1–2 weight percent zinc concentration throughout. The zinc, silica, and iron are thought to have been added by diffusively venting (exhaled) hydrothermal fluids or from fallout from black smoker plumes on the sea floor. Where hydrothermal activity occurred, there is an intimate association between the Key Tuffite and both hydrothermal venting and sulphide precipitation. In addition to the chemical evidence, the Key Tuffite demonstrates a variety of characteristics related to sulphide mineralization as follows:

1) Replacement of existing Key Tuffite by alteration and/or mineralization,
2) Sulphide laminations in Key Tuffite,
3) Draping or capping of sulphides by the Key Tuffite,
4) Deposition of sulphides on top of the Key Tuffite,
5) Fragmentation of the Key Tuffite into Pipe alteration and/or sulphide mineralization,
6) Fragmentation of Key tuffite into sulphide,
7) Discordant relationships between the Key Tuffite and sulphide mineralization,
8) Sulphide mineralization and related alteration developed below uninterrupted Key Tuffite as a capping unit, and
9) Sulphide mineralization developed below the Key Tuffite as a root in a Pipe system with the Key Tuffite disrupted by the pipe alteration at the seafloor interface.

7.2.3 Wabassee Group

In the South Flank, stratigraphy in the basal sequence of the Wabassee group is somewhat complex in the context that there is significant lateral variation between felsic and mafic rock units with the added complication of inflation of the sequence by gabbro sills. Mafic rocks are composed of a basal andesite sequence followed by a thick basalt sequence, both of which have not been assigned formation status. Commonly, the andesite sequence and the base of the basalt

sequence are interbedded with abundant tuffite horizons observed up to 400 metres stratigraphically above the Key Tuffite. Inter-layered with the andesite and lower basalt sequence are rhyolite units of the Bracemac, Dumagami and the Norita formations. Using the Key Tuffite as a stratigraphic marker horizon, three comparative sections can be used to reference the distributions of the various rhyolite units with the mafic rocks in the base of the Wabassee Group.

1. In the central part of the South Flank, andesitic volcanic rocks with interbedded tuffite directly overlay the Key Tuffite. Interlayered with the andesites are horizons of Dumagami rhyolite as both laterally continuous units and as restricted units (domes). These are overlain by Wabassee Basalts.
2. In the Bracemac-McLeod area to the southeast, the Bracemac rhyolite occurs as a thin unit immediately above the Key Tuffite and is in turn overlain by Wabassee andesites followed by basalts. The Bracemac rhyolite is capped by the Bracemac tuffite. Both units wedge out to the northwest of the deposit where andesite directly overlays the Key Tuffite.
3. In the Perseverance area, a thick sequence of Dumagami rhyolites directly overlay the Key Tuffite and there is an absence of mafic rocks in the sequence.

7.3 Mineralization

VMS mineralization is best developed at the Key tuffite (**Figure 7-5** and **Figure 7-6**). Stratigraphically stacked sulphide mineralization and related alteration has been discovered in the Wabassee Group at the Bracemac-McLeod deposit and Orchan West deposit in the South Flank and at the PD1 deposit in the West Camp. Chemostratigraphic studies conducted by M. Dessureault (personal communication) in the North Flank suggest that the Norita, Norita East and New Hosco deposits occur within the Wabassee Group above the Key Tuffite. At Bracemac-McLeod, massive sulphides are developed at a tuffite horizon that marks the change from andesitic volcanism to basaltic volcanism as well as within a tuffite horizon within the base of the basalt sequence.

The Perseverance provides an interesting stratigraphic anomaly in that this deposit is developed within the alteration pipe in the Watson Lake rhyolites below the Key Tuffite. As such, current thinking within the MLOJVA technical committee is that this deposit was formed strictly by replacement.

7.4 Alteration related to VMS processes at Matagami

Chemical alteration related to hydrothermal activity, is locally well developed within close proximity to the sulphide deposits in the Matagami Camp (**Figure 7-5**). This alteration is described by Beaudry and Piché (unpublished field trip guide) as restricted zones of intense chlorite±talc alteration ("Pipe" facies) surrounded by poorly defined zones of decreasing chlorite alteration (proximal pipe facies) which grades into broad zones of sericitic alteration. In a stratigraphic context, Pipe alteration is intimately associated with synvolcanic faulting and sulphide deposition. It is a key indicator of prospectively for sulphide development. The proximal pipe facies alteration can persist for some distance however it is restricted to the immediate plane or trend of the synvolcanic fault systems along which hydrothermal fluids

migrated. Both pipe and proximal pipe alteration were initially noted only in the Watson Lake formation however observations of this alteration have been made at Bracemac-McLeod and Orchan West deposits where it is almost continuous up to the level of the Wabassee Basalts. In both cases, sulphide mineralization is developed at the Key Tuffite and within other stratigraphic levels in the lower portion of the Wabassee formation.

There is increasing evidence at Bracemac-McLeod that hydrothermal fluids were trapped by the Key Tuffite and that there may have been lateral migration of fluids below this cap rock (Matagami exploration group, pers. communication)

7.5 Structure

There are a number of major structural features that influence stratigraphy in the region. The first of these features is early-stage synvolcanic faulting that is demonstrated by disruption of the Key Tuffite and suggests disruption of the sea floor at the time of hydrothermal activity. This disruption formed a series of sub-basins or troughs along which hydrothermal processes were focused and that controlled the clustering and special distributions of sulphide deposits both at Bracemac-McLeod and throughout the Matagami Camp.

The second feature influencing the Matagami region is the Galinée Anticline which is a northwest-plunging anticline that deforms the region into the steeply north-dipping (~70°) vertical North Flank and the southwest-dipping (30–65°) South Flank regions. The centre of the anticline is occupied by the Bell River Complex. Recent interpretations are casting some doubt as to whether this anticline exists in favor of a juxtaposition of the steeply dipping North Flank and the moderately dipping South Flank.

Within the South Flank, the Daniel Fault is identified as a northwest-southeast-trending high-angle normal fault with a displacement of 0.5-1 km (Adam, et al., 1997). The downthrown block is to the southwest of the South Flank Deposits and displaces critical stratigraphy downward.

In general the camp is divided into five structural/stratigraphic domains as follows:

North Flank: Vertical to steeply north-dipping stratigraphy, structurally attenuated, complex stratigraphy.

South Flank: South westerly-dipping stratigraphy (40 ° to 70°), offset at depth by the Daniel Fault.

Central Camp: Poorly understood area between the South Flank and West Camp. It is suspected that a series of shallow to moderately dipping horst and graben structures dominate this area of the camp with stratigraphy becoming steeply dipping towards the west camp.

West Camp: Vertical to steeply north-dipping stratigraphy.

Daniel Belt: A southwest – northeast trending belt composed of steeply dipping volcanic, and volcaniclastic rocks that cross-cut structural trends within the four belts previous described

7.6 West Camp Geology

The "West Camp" is a 30 kilometre long belt comprised of volcanic rocks that correlate well with the Watson Lake Group – Key Tuffite – Wabassee Group sequence that typifies Matagami stratigraphy (M. Dessureault, G. Roy, P. Carr pers. communication) **(Figure 7-7)**. This correlation is made on the basis of rock type, geochemistry and age correlation. The stratigraphy in the West Camp is less well known due to extensive cover and much fewer drillholes. Geology and stratigraphic understanding are documented primarily from drilling on the Caber, Caber North and PD1 deposits as well as from drilling on the PD2 and Cavalier prospects. From these sites, a stratigraphic succession in **Figure 7-8** demonstrates stratigraphic relationships. The succession is comprised of a lower tholeiitic rhyolite/dacite unit (Watson Rhyolite equivalent) overlain in many areas by a tuffite that correlates with the Key Tuffite marker in the South Flank. The felsic volcanic rocks and/or the tuffite are overlain by a thick tholeiitic andesite/- basalt sequence with locally inter-layered rhyolite/dacite and possibly local tuffites (Wabassee Group). The rhyolite in the footwall to the Caber deposit has been dated at 2725.9±1.2 which strongly supports its correlation with the Watson Lake rhyolite in the south Flank (Ross, McNicoll, Debreil, & Roy, 2012, in press). Gabbro dykes inflate the sequence throughout the West Camp belt and can be quite abundant. As with similar intrusions in the South Flank, they appear to postdate mineralization (Masson, 2000).

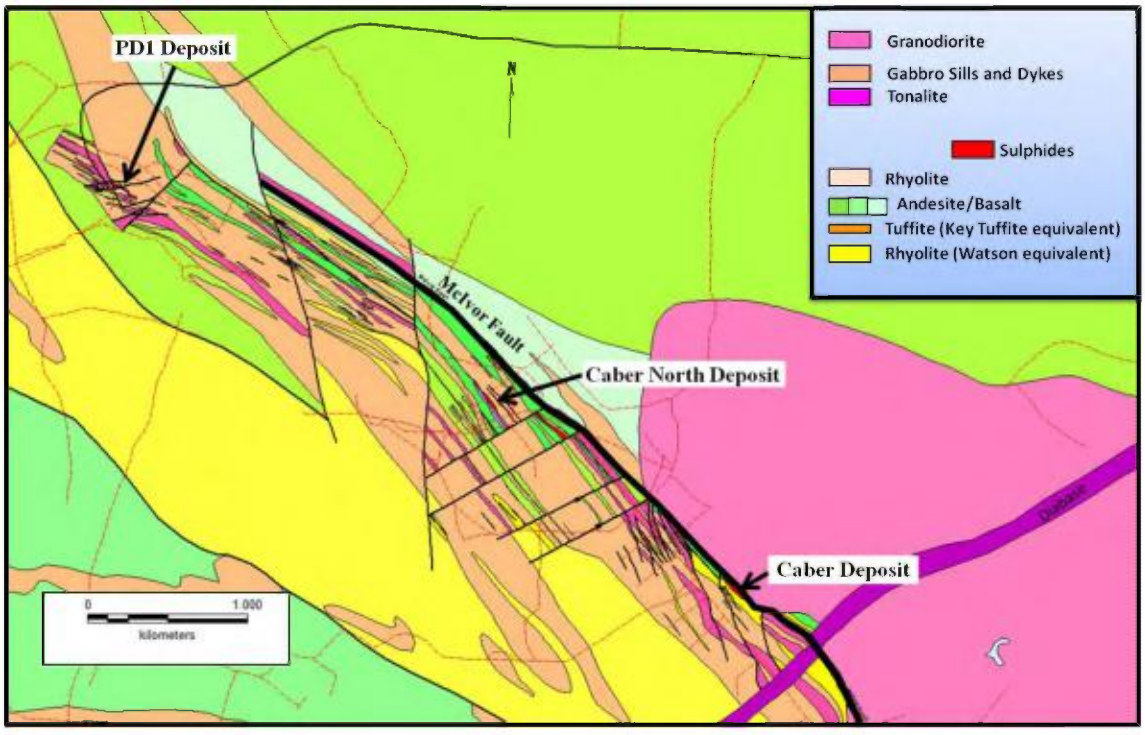


Figure 7-7: PD1 area, regional geology.

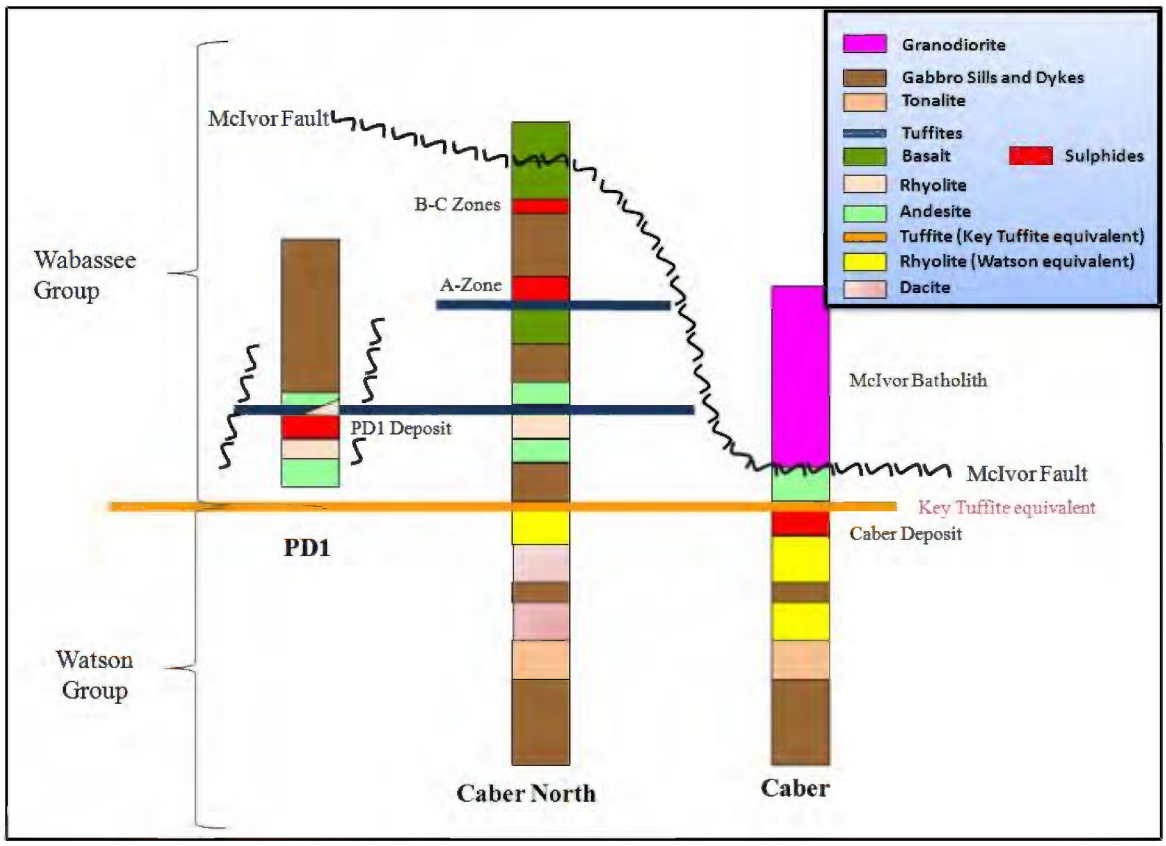


Figure 7-8: PD1 and West Camp stratigraphy.

Structurally, dips in the belt vary from 65° to the northeast at PD1, overturned 75° to the southwest at Caber and near vertical in the south-eastern part of the belt. There is evidence of faulting throughout the belt however the correlation of various fault/shear systems is difficult. A major fault that seems to mark the contact between the West Camp and the Central Camp is the McIvor Fault which can be traced from the Caber deposit to the northeast of the PD1 deposit. The relative movement is not well known; however it is believed that it down drops stratigraphy to the northeast of the West Camp belt.

At the PD1 deposit, faults running perpendicular to stratigraphy are interpreted from drilling and surface geophysical surveys. The orientations of such faults are difficult to determine as many are parallel to the drill direction. One such fault acts a limit to mineralization on the south-eastern side of the PD1 deposit.

7.7 PD1 Geology

The PD1 deposit occurs within tholeiitic andesites interbedded with dacite/rhyolite and tuffite, all within the Wabassee group (**Figure 7-9**) (**Figure 7-10**). This interpretation is based on core logging. Immobile element geochemistry from the 2010 drilling suggests that the amount of dacite/rhyolite may be exaggerated in core descriptions by the effects of silicification (Carr, P.M. pers. communication). Mineralization occurs with an intermittent tuffite horizon and with thin 1

– 5 metres intervals of Pipe alteration in the footwall and locally in the immediate hanging wall. The deposit extends from surface to a vertical depth of 515 metres. Mineralization is underlain over most of its extent by a dacite wedge (from historical core descriptions) which is then underlain by andesites/basalt. The footwall felsic volcanic rocks wedge out towards the near surface portion of the deposit where andesite is present in the immediate footwall. The hanging wall is comprised of inter bedded mafic and felsic volcanic rocks (from historical descriptions) intruded by a thick gabbro sill.

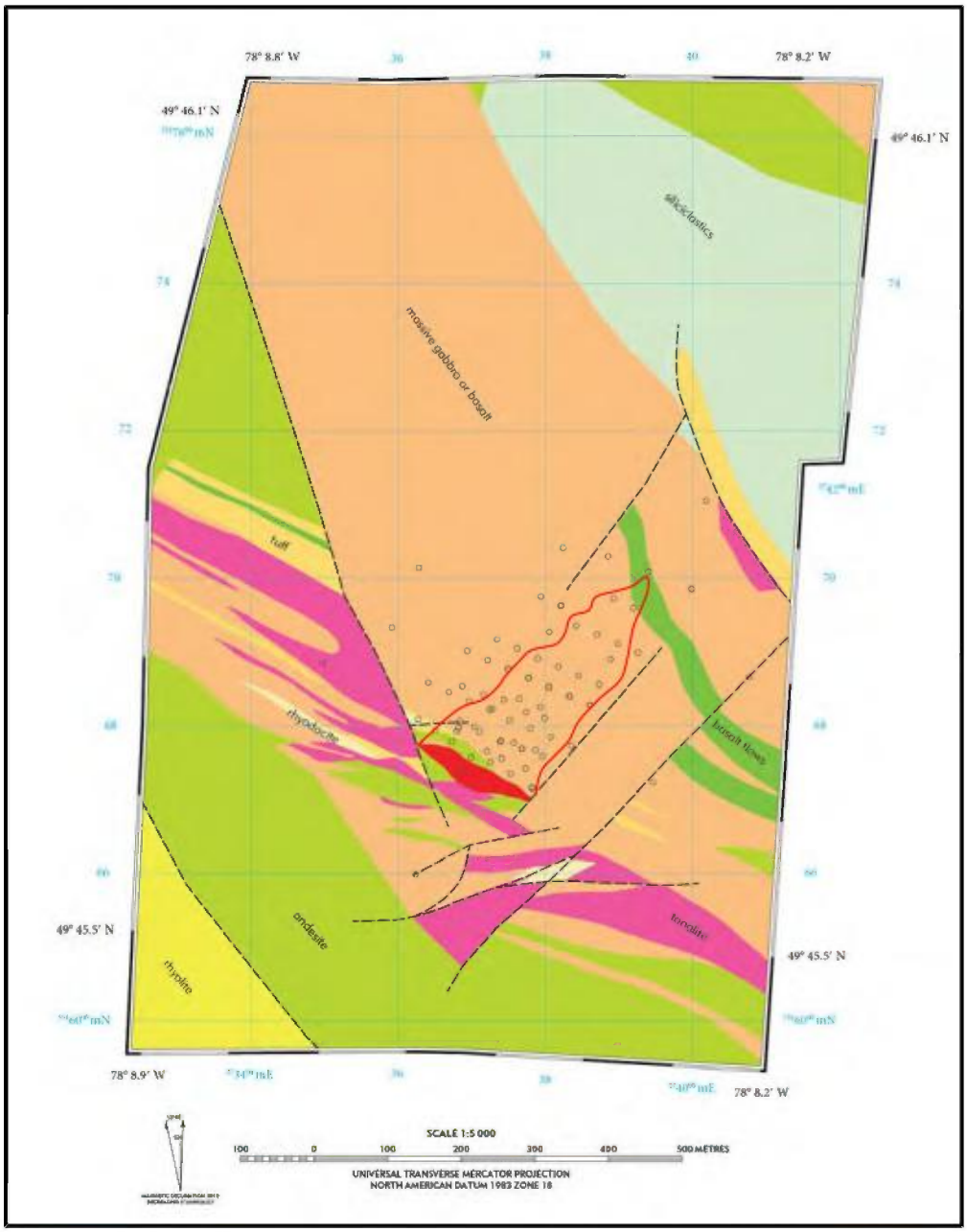


Figure 7-9: PD1 Surface geology (P. Carr, pers. Communication)

Structurally, the deposit dips relatively uniformly at 65° to the northeast. There is strong indication of a bounding fault on the southeast side of the deposit on which mineralization is abruptly terminated. Mineralization feathers-out to the northwest and thins out at depth. There are a number of potential faults interpreted to the immediate northwest of the deposit however the control or impact on mineralization is not known.

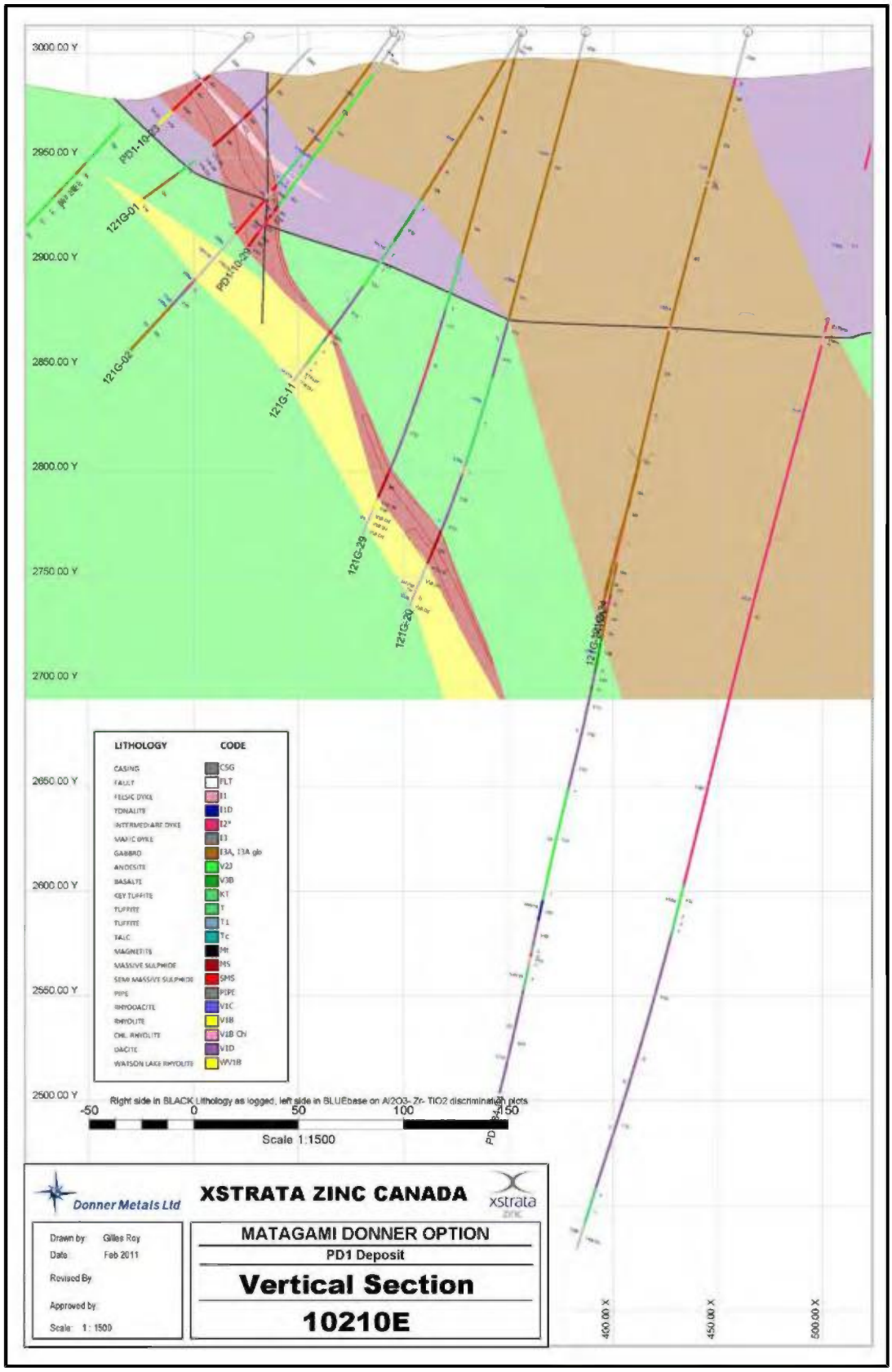


Figure 7-10: PD1 Cross section 10210E.

8 MATAGAMI CAMP DEPOSIT TYPES

8.1 Matagami Volcanogenic Massive Sulphides (Zinc, Copper, Silver, Gold)

The primary deposits of the Matagami Camp are volcanogenic massive sulphides ("VMS") typical of described bimodal systems (Franklin, Gibson, Jonasson, & Galley, 2005). Mineralization was emplaced as a result of hydrothermal processes active during extensive volcanism that occurred in the Matagami area. The driving force behind the eruption of large volumes of lavas and related volcanic rocks, as well as extensive hydrothermal systems, was the Bell River complex (Maier, Barnes, & Pellet, 1996) and (Carr, Cathles, & Barrie, 2008). Sulphide minerals were precipitated by mineral laden hydrothermal fluids at or immediately beneath the sea floor in regions of synvolcanic faulting as result of channeling and focusing of convecting hydrothermal fluids. The majority of deposits occur at or near the Key Tuffite and within the lower portion of the Wabassee Group. They tend to have limited lateral extent and appear to have been formed in mounds and as replacement (keels and plugs) within the underlying Pipe systems. Sulphide deposits are underlain by chlorite-talc ± sulphide Pipes developed within the core of the hydrothermal system where fluid passage was focused and sustained over a period of time along syn-volcanic structures. It is characterized by funnel-shaped alteration in the strata deposited prior to hydrothermal activity and commonly cuts stratigraphy at high angles.

Sulphide deposits are composed of medium to coarse-grained pyrite, sphalerite, and chalcopyrite with lesser pyrrhotite and associated magnetite. They are noted for their high zinc and copper grades with silver and gold as auxiliary components. Gangue minerals are typically magnetite, chlorite, talc and quartz. Sulphides deposits exhibit a wide variety of textures such as massive, massive banded, semi-massive, sulphide breccia, stringer and disseminated. Typically the grade of the sulphides respects relatively hard lithological cut-offs where massive/semi-massive sulphides are generally high-grade and grades diminish abruptly across geological boundaries with other rock types.

The deposits demonstrate a variety of geometries that indicate precipitation as mounds, roots, keels and pinnacles. A discussion on the genesis of mineralization follows in the paragraph below. There is also a likelihood of overprinting and dissolution/re-precipitation of previously deposited sulphides as hydrothermal processes continued. Many deposits exhibit aspects of all of these features as shown at the Isle Dieu deposit (**Figure 8-1**), while others may be dominated by one style as demonstrated at Perseverance where sulphides are developed as a root in the Pipe facies below the Key Tuffite. It is interesting to note that sulphide banding is often developed perpendicular to stratigraphy.

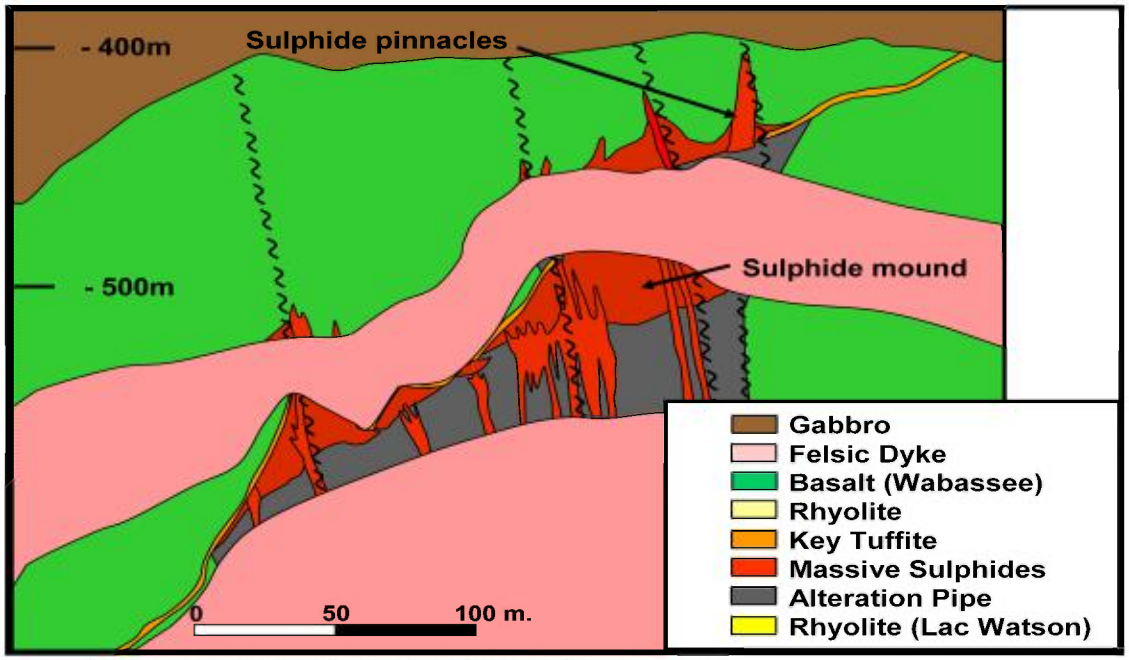


Figure 8-1: Geological Cross Section through the Isle Dieu Deposit.

Current thinking within the MLOJVA technical group and Roy, Dessureault, Genna, & Faure (2010) is that replacement and in situ precipitation of sulphides within rocks that existed during the hydrothermal process may be a much greater component deposit style in the Matagami camp than is indicated by the standard models for volcanogenic massive sulphides. By extrapolating this idea further, a hypothesis has been presented that proposes that all sulphides in Matagami were emplaced by hydrothermal processes as strictly replacement deposits after deposition of much of the Wabassee Group (Roy, Dessureault, Genna, & Faure, 2010). Under this model, the Key Tuffite acted as a regional impermeable barrier to hydrothermal fluids along with less extensive local tuffites in the base of the Wabassee Group. Sulphides at the Key Tuffite and sulphide horizons in the base of the Wabassee formed where fluids breached the Key Tuffite and migrated higher in the sequence. Under this model, evidence exemplified by the extensive alteration in the Watson rhyolite at the Bracemac-McLeod suggests channelized migration of hydrothermal fluids trapped below the Key Tuffite.

8.2 Daniel Belt Massive Sulphides (Copper, Gold)

The Daniel Belt hosts thick intervals of disseminated, semi-massive and massive sulphides dominated by pyrite at the Daniel-1 prospect. At this location, copper and gold values have been intersected in diamond drilling within this pyrite mineralization. Sulphides are hosted within a sequence of volcaniclastic and volcanic rocks.

9 MINERALIZATION – PD1 DEPOSIT

The PD1 deposit generally fits within the context of the Matagami Type deposits in that it is composed of a massive sulphide body deposited/formed within the Wabassee Group and with

associated Pipe development. The deposit differs from the typical Matagami sulphide deposits on four fronts:

1) The deposit is a body of dense massive pyrite within which two internal parallel layers are defined on the basis of minimum cut-off grade.
2) The overall grade of the deposit and that of the above cut-off mineralization is lower than camp average for massive sulphides.
3) The grain size is finer than camp average.
4) Mineralization occurs in the hanging wall stratigraphy to the Key Tuffite horizon within the lower portion of the Wabassee Group (interpreted in this area).

The deposit is elongate to the northeast and down the dip plane with an abrupt termination of sulphide mineralization along a possible fault running perpendicular to stratigraphy on the south-eastern side of the deposit. Mineralization is open at depth on the basis of an intersection in diamond drillhole 121G-34. The deposit is best represented by a best fit plane that strikes at 297 ^{o} N and dips at 65° to the northeast. The deposit has a maximum width 160 metres at surface and there is a narrowing to 90 metres between 100 and 200 metres vertical depth where grade in the two layers drops off. The deepest drilling on the deposit indicates a width of 35 metres at 515 metres vertical depth. The deposit measures 535 metres in its long axis and the average thickness of sulphides is between 5 and ten metres with local thickening up to 30 metres.

Mineralization at the PD1 deposit is comprised of single body of massive to semi massive sulphides (**Figure 9-2**) with two internal and parallel layers defined by grade cut-off of (2*Cu + Zn) greater than 3 % (**see Section 17)**. This cut-off also represents the preferential development of sphalerite and chalcopyrite within these two layers. These layers are separated by low grade sulphides dominated by pyrite except in the uppermost portion of the deposit where the two coalesce. The lower layer exhibits higher copper values and the upper layer exhibits higher zinc values.

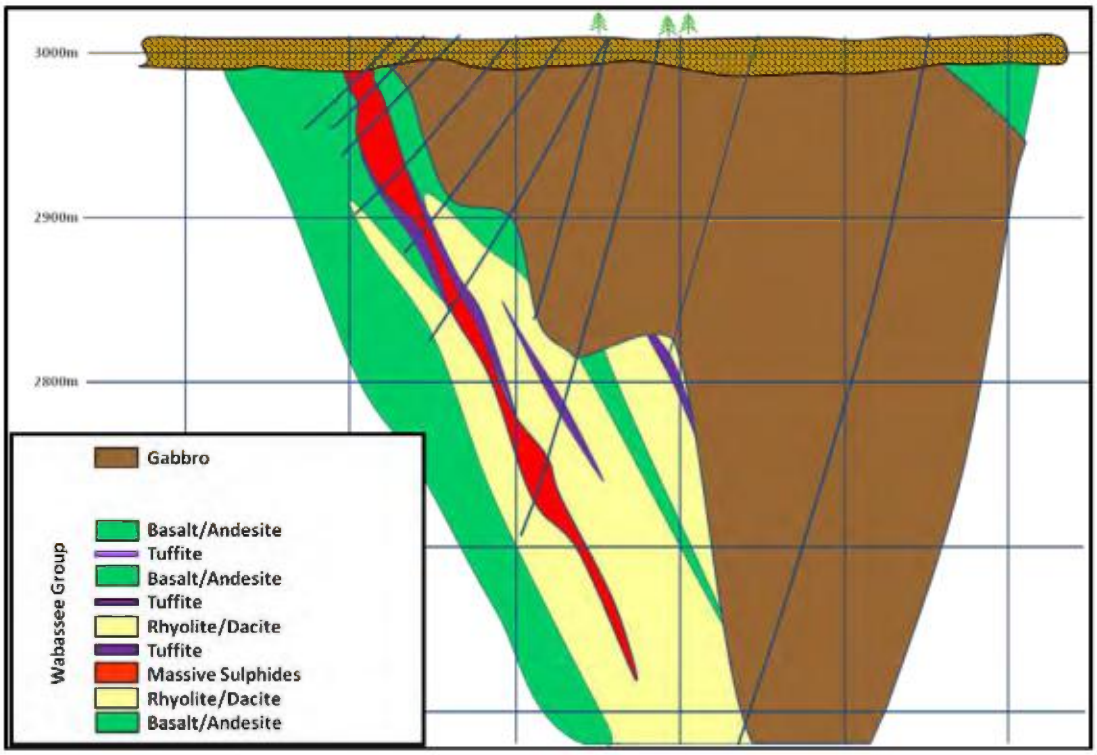


Figure 9-1: Geological Cross section of the PD1 deposit, section 10270E.



Figure 9-2: Examples of sulphide intersections from 2010 drilling on the PD1 deposit.

On visual and petrographic inspection, mineralization is finer-grained than sulphide mineralization typical of other deposits. Sulphide species are dominated by pyrite with minor sphalerite, chalcopyrite and pyrrhotite (**Figure 9-3**). Magnetite is common and gangue minerals, where present, are composed of carbonate, quartz and chlorite.

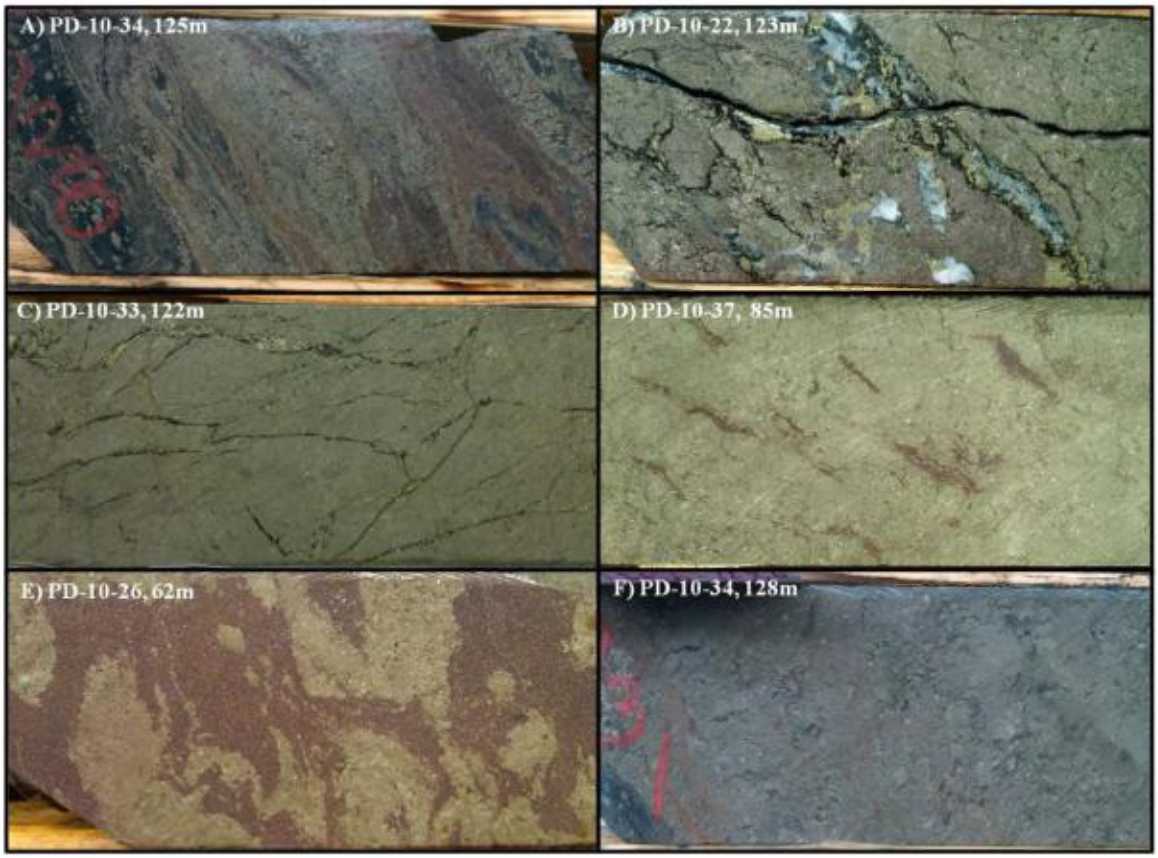


Figure 9-3: Photographs of mineralization from PD1 2010 drill program. A) Banded massive pyrite and sphalerite, B) massive pyrite with chalcopyrite and pyrrhotite with quarts, C) massive pyrite with chalcopyrite in fractures, D) massive pyrite with wispy sphalerite, E) massive pyrite and sphalerite and, F) massive pyrite with wispy and dusty sphalerite. All photographs are of NQ-sized drill core measuring 4.7cm in height.

10 EXPLORATION

Recent exploration activities included the completion of a VTEM airborne survey and a ground based InfiniTEM survey. Both surveys successfully detected the PD1 deposit. Further surface work on the deposit is not warranted. Mineralization was intersected in one of four drillholes completed in the deepest tier of drilling on the deposit. Should any of the historical holes be re-entered, or if new drilling is conducted, down-hole EM will be a useful to with which to detect further sulphide mineralization.

11 DRILLING AND DATA ACQUISITION AND INCORPORATION OF HISTORICAL DATA

A total of 24 diamond drillholes were completed in 2010 by Xstrata Zinc and Donner under the MLOJVA (**Table 11-1**). The objective of the drill program was to verify results of historical drilling and to add data points in order to provide the basis for a measured resource between surface and a vertical depth of 100 metres. On the basis of the results of this drilling and the confirmation of the collar location of many of the historical drillholes, the dataset used in the resource calculation for the PD1 deposit includes results from 50 historical holes as noted in the following table.

Table 11-1: PD1 Drilling Statistics.

PD1 Deposit Drilling					Total Drilling		
Total Project		**# of holes**	**Metres**		**Year**	**# of holes**	**Metres**
	Completed	75	**17344**		1973	43	13064
	Extended				1976	4	436
	Abandoned				1977	1	214
	Wedged				1984	2	1156
					2010	24	2473
	Total:	**75**	**17344**		**Total:**	**74**	**17343**
Exploration Drilling					**Total Drilling**		
PD1 2009-2012		**# of holes**	**Metres**		**Year**	**# of holes**	**Metres**
	Completed	10	5296		1984	4	3172
	Extended	0			2007	2	739
	Abandoned	0			2010-12	4	2259
	Wedged	0					
	Total:	**9**	**5296**		**Total:**	**10**	**6170**

Sections **11.1** to **11.9** below are specific to drill data acquired during the 2010 program. Data related to historical drilling are discussed separately under section **11.9** and 11.10. Description of the grid systems used in locating drillholes is applicable to both data sets.

11.1 2010 Drilling

Drilling during 2010 was performed by Forages Rouillier Inc. of Amos, QC using metric running gear (3 meters rods, core barrels and inner tubes). Drilling was conducted with HQ (diameter is 96 millimetres for rods; 63.5 millimetres for core) and NQ equipment (75.8 millimetre rods, 47.6 millimetre core).

A total of three holes were drilled with HQ rod size and 22 holes drilled with NQ core size.

11.2 Drillhole Engineering and Surveying

Collar locations for the 2010 drilling were initially set in the field using conventional GPS with alignment of the initial azimuth set by compass or pocket transit (**Table 11-2**). On setup, the drill is leveled to avoid deviation due to an off-plumb start. Following drill set-up, level, dip and azimuth are rechecked by a geologist or technician. After completion of the hole, the casing is left in the hole, capped and clearly identified. The location of the collar (casing) was resurveyed using differential GPS and the orientation of the casing using a north-seeking gyroscope. Sperry Drill Services of North Bay Ontario conducted the gyro surveys. Locations are surveyed in UTM NAD83 zone 17 and converted into UTM NAD83 zone 18. This is done to facilitate conversion of survey points to the mine grid system used at Matagami which is based on zone 18. As well, all available historical drillholes were surveyed (**Table 11-3**).

GL Géoservice, Ltd., of Rouyn-Noranda is responsible for conducting the differential GPS surveys in the PD1 Area. Accuracy of the GPS system used is 0.05 metres horizontally and vertically.

Down-hole surveying of drillhole trajectory was conducted by Reflex Easy Shot at 30 metre intervals. Surveying of diamond drill by instruments, like the EZ-Shot, are subject to errors that result from magnetic interference of azimuth readings by surrounding magnetic rock. While there are magnetic rocks at PD1 the impact of the any such error is minimal given the shallow depth of drilling under the 2010 program.

Table 11-2: 2010 PD1 drill program, drillhole data.

DDH#	Location	Core size	Collar survey	Down hole Survey Type	Collar dip and azimuth (north-seeking Gyro)
PD1-10-18	I	HQ	dgps	Reflex	
PD1-10-19	I	HQ	dgps	Reflex	
PD1-10-20	I	HQ	dgps	Reflex	
PD1-10-22	I	NQ	dgps	Reflex	
PD1-10-23	I	NQ	dgps	Reflex	
PD1-10-24	I	NQ	dgps	Reflex	
PD1-10-25	I	NQ	dgps	Reflex	
PD1-10-26	C	NQ	dgps	Reflex	
PD1-10-27	I	NQ	dgps	Reflex	
PD1-10-28	I	NQ	dgps	Reflex	
PD1-10-29	I	NQ	dgps	Reflex	
PD1-10-30	C	NQ	dgps	Reflex	X
PD1-10-31	I	NQ	dgps	Reflex	X
PD1-10-32	I	NQ	dgps	Reflex	X
PD1-10-33	I	NQ	dgps	Reflex	X
PD1-10-34	I	NQ	dgps	Reflex	X
PD1-10-35	I	NQ	dgps	Reflex	X

DDH#	Location	Core size	Collar survey	Down hole Survey Type	Collar dip and azimuth (north-seeking Gyro)
PD1-10-36	I	NQ	dgps	Reflex	X
PD1-10-37	I	NQ	dgps	Reflex	
PD1-10-38	I	NQ	dgps	Reflex	X
PD1-10-39	I	NQ	dgps	Reflex	X
PD1-10-40	I	NQ	dgps	Reflex	X
PD1-10-41	C	NQ	dgps	Reflex	X
PD1-10-42	C	NQ	dgps	Reflex	X

I = internal - mineralized
C = confining drillhole
dgps = differential GPS

11.3 Drill Core Inspection

Drill core is collected from the drills and delivered to the core shack at the end of each 12-hour shift. All cores are laid out sequentially and a visual review is conducted by both an experienced core technician and geologist to determine if

1) the boxes are numbered sequentially,
2) depth markers are sequential and consistent with the distance indicated,
3) core has been lost on ground,
4) core "fits together" sequentially down the hole to ensure there are no significant missing or out-of-place pieces.

The core shack and core storage are located in a secured area at the Matagami Mill site.

11.4 Software

Gemcom is the primary tool for management of drillhole information. This includes storage of data in a robust and database structure, back-up and both verification and manipulation of data. This program is also the basis for data plotting, both 2D/3D visualization and modeling and the block model resource calculation. Gocad is used for modeling of both geological and geophysical data. Maxwell is used to model BHEM surveys.

11.5 Rock Quality Designation (RQD)

In the following protocols established for Xstrata Zinc, determination of rock quality (competency) is determined systematically for all drillholes on the basis of Rock Quality Designation (RQD). RQD is defined as the percentage of a given length of core that is composed of pieces greater than 10 centimetres in length (Deere, 1963). Measurements of RQD were conducted at 3 metre intervals on all core and entered into the Gemcom database. RQD data is collected to be later used to assess rock mass for mine engineering including Rock Mass Rating (Bienawski, 1973) or the Q-system (Barton, Lien, & Lund, 1974).

11.6 Magnetic Susceptibility

Magnetic susceptibility readings are collected systematically on all drillholes at 1.5-metre intervals on intact cylindrical core with a handheld magnetic susceptibility meter (Exploranium KT-9) and stored in the drillhole database.

11.7 Core Description

Drill core is logged daily by experienced Xstrata geologists and the data is entered into the Gemcom database. Logging is conducted and reviewed under supervision of Xstrata's senior geologists who monitor the logging process and help resolve ambiguities between different geologists and/or interpretation of altered or difficult rock types. All logging is finalized after lithogeochemical results are returned to ensure consistency in assigning rock types.

The primary division/classification of the core is based on volcanic or intrusive protolith (e.g., basalt, rhyolite, and gabbro), massive or semi-massive sulphide, Pipe facies alteration ("alteration Pipe") and tuffite. The second-level classification includes further details, such as faults and small intrusive dikes. The following data is typically collected during the logging process:

- Lithological description including a description of lithological and or structural contacts and their relative angles with respect to the core axis.
- Alteration: minerals, texture and type.
- Mineralization:
    i. Sulphide content (massive/semi-massive, stringer etc.) with estimate of total sulphides present.
    ii. Sulphide species present and their relative abundance in percent (sub divisions are made on the basis of sulphide species present).
    iii. Description of contacts with host rock and or description of internal contacts between different styles of mineralization.
    iv. Texture, color and grain size of sulphides.
    v. Gangue minerals present and their relative abundance.
- Description of structures present in the core (faults, fractures, foliation etc.) along with their relative angles with respect to the core axis.
- Percentage of core recovery and nature of loss if any.
- Rock quality designation (RQD) measurements.

Descriptions of lithologies are converted into a detailed system of rock codes created for the Matagami Camp and used for ease of plotting and visualization. This code system is provided in **Appendix III**.

Data is plotted and interpreted primarily on paper and within the digital environment. Data is represented on cross-sections, longitudinal sections and digitally in 3-D using Gemcom and Gocad.

11.8 Core Photography

Core is photographed daily in groupings of 3–5 core boxes per photograph. A scale is not typically present, but the 3-meter markers are clearly visible in the photographs. The photographs are taken with a digital camera at 3000×2000 pixels and are stored on the network drive in jpeg format.

11.9 Grid Systems

11.9.1 Matagami Mine Grid

A grid and coordinate system used by mine operations in Matagami (historical and current operations) is established for the Matagami Project areas and is based on a grid reference system tied to surveyed benchmarks centered on operations in the South Flank. This system is the Mine Grid Coordinate System ("MGS") which is a Cartesian coordinate system used for all surveying and positioning of diamond drillholes on the Project. Consequently, all databases, 3D modeling and interpretation of the PD1 sulphide zones are based on this system. This same grid system has the title of the South Flank Coordinate System ('SFCS') mentioned in previous technical reports for projects located in the South Flank Area.

The MGS is a true north referenced system with its primary benchmark at the original Mattagami Lake mine shaft. For historical data, available data points for surface locations are surveyed and converted into MGS. As a result, all down-hole magnetic surveys are stored in the database as X, Y and Z coordinates calculated relative to true north (MGS grid north) using a declination consistent with the date of the original survey. The current declination is 14.5°W. Further, the Matagami area is located at the border between two UTM zones (17 &18) and as such, the UTM azimuth variation from true north in this area is at a maximum distortion of 2°03'33" from true north. NAD 83, Zone 18 is the projection used for PD1 for ease of conversion to the MGS. Zone 18 is used rather than Zone 17 (area in which PD1 is located) for greater ease of conversion to the MGS. The result of the use of the Zone 18 projection at PD1 and the conversion to MGS adds a constant positioning error at PD1 which impacts all data relative to the benchmarks at the Matagami Mine. This is mitigated by benchmarks established at PD1 during surveying by differential GPS.

For the purpose of locating points in the field (drillhole collars, geophysical grids etc.) UTM coordinates are used and converted into MGS as the base system for drillhole plotting and visualization, modeling and engineering studies. Formulas used to convert UTM coordinates into MGS coordinates and conversely MGS into UTM coordinates are verified by survey with expected errors within ± 1.5 metres. The conversion formulas are:

Equation 1: UTM – Mine Grid conversion.

- MineX = -93742.22 + (UTMX*COS (-0.035939237) + UTMY*SIN (-0.035939237))
- MineY = -5505894.02 + (UTMY*COS(-0.035939237) - UTMX*SIN(-0.035939237))
- UTMX = 291516.726 + (MineX*COS(0.035939237) + MineY*SIN(0.035939237))
- UTMY = 5498970.32 + (MineY*COS(0.035939237) - MineX*SIN(0.035939237))
  (Where 0.035939237 is the radian value of (2°03'33")

11.9.2 PD1 Historical Grid and Conversion to Mine Grid

For the historical PD1 drill grid, the survey of the 17 drillhole collar points provides the basis for conversion of the remaining un-surveyed historical collars into UTM NAD 83, Zone 17 and conversion to MGS. The transformation between the two systems is:

Equation 2: PD1 historical Grid conversion to UTM.

$$\begin{bmatrix} xutm \\ yutm \\ 1 \end{bmatrix} = \begin{bmatrix} a & b & xoff \\ d & e & yoff \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} xPD \\ yPD \\ 1 \end{bmatrix}$$

a = 0.2774454
b = 0.1254370
xoff = 266883.9
d = -0.1226184
e = 0.2784190
yoff = 5516406.1

Residual errors calculated from the 17 surveyed reference points averages 0.93 metres and ranges from 0.2 to 1.9 metres

11.10 Historical drilling, 1974-1977 and 1984

One of the objectives of the drilling conducted in 2010 was to verify the results of historical drilling in the deposit. This section pertains to the historical drill data and drillhole location data. The comparative validation of historical assays listed in drill logs can be found under Data Validation and Corroboration.

11.10.1 Historical Drill Program

Historical drilling and work programs on the PD1 deposit were conducted by Phelps Dodge Corporation of Canada from 1974 to 1975, Orchan Mines Limited from 1975 to 1977 and Noranda Exploration Limited in 1984. Original core is not available for any of the pre-2010 drilling. All historical data included in this report are based on rock descriptions and assay data listed in the drill logs and program report files stored at the Mattagami Mine site.

11.10.2 Historical Engineering and Surveying

The historical drilling was conducted on a drill grid established in 1974 on which all of the original 1974 through 1977 drill collars were located. A total of 17 collars were located in the field and surveyed with differential GPS in both the mine grid system and UTM NAD83 zone 18. The remainder of the collars were not found as a result of the casing being pulled or surface disturbance. The new GPS data matched well with historical map locations of the drill collars and, on this basis, the remaining un-surveyed collar locations were extrapolated and assigned new UTM and mine grid coordinates.

During the 2010 program, none of the historical holes were re-entered and surveyed with down-hole instrumentation. The collar azimuth and dip as well as down-hole surveys were taken from historical drill logs. All of the historical holes were surveyed by acid tests at intervals of either 30 metres (deep holes) or 60 metres (shallow holes). These tests provided measurement of dip only. Five holes were surveyed by Tropari which provided information on both dip and azimuth of the borehole trajectory. These surveys were conducted as verification with readings taken at widely spaced intervals near the bottom of the deeper holes drilled on the deposit. They were not taken at regular intervals from the collar to the end of the drillhole. The following table summarizes the survey data for the historical drilling.

Table 11-3: PD1 Historical Drillhole data.

DDH	Location	Core size	Collar survey	Down hole Survey		
			differential GPS	Acid @ ~30 metre intervals	Acid @ 60 metre intervals	Tropari
121G-01	I	BQ			x	
121G-02	I	BQ			x	
121G-03	I	BQ			x	
121G-04	I	BQ			x	
121G-05	I	BQ			x	
121G-06	C	BQ			x	
121G-07	C	BQ			x	
121G-08	I	BQ			x	
121G-09	C	BQ			x	
121G-10	C	BQ			x	
121G-11	C	BQ			x	
121G-12	C	BQ			x	
121G-13	C	BQ			x	
121G-14	C	BQ			x	
121G-15	I	BQ	x		x	
121G-16	I	BQ			x	
121G-17	I	BQ	x		x	
121G-18	I	BQ			x	
121G-19	C	BQ			x	
121G-20	I	BQ			x	
121G-21	C	BQ			x	
121G-22	C	BQ			x	
121G-23	I	BQ	x		x	x
121G-24	C	BQ	x		x	x
121G-24WA	C	BQ	x		x	
121G-25	I	BQ			x	
121G-26	I	BQ			x	
121G-27	I	BQ	x		x	
121G-28	I	BQ			x	

DDH	Location	Core size	Collar survey	Down hole Survey		
			differential GPS	Acid @ ~30 metre intervals	Acid @ 60 metre intervals	Tropari
121G-29	I	BQ			x	
121G-30	C	BQ			x	
121G-31	I	BQ			x	
121G-32	C	BQ			x	
121G-33	C	BQ	x	x		
121G-34	I	BQ	x	x		
121G-35	I	BQ		x		
121G-36	I	BQ		x		
121G-37	I	BQ		x		
121G-38	C	BQ	x	x		
121G-39	C	BQ	x	x		
121G-39WA	C	BQ	x	x		
121G-40	I	BQ	x	x		
121G-41	C	BQ		x		
121G-42	I	BQ	x	x		
121G-43	I	BQ	x	x		
PD1-76-01	I	BQ		x		
PD1-76-02	I	BQ	x	x		
PD1-76-03	I	BQ	x	x		
PD1-76-04	I	BQ	x	x		
PD1-77-02	C	BQ		x		
PD1-84-01	C	NQ	x	x		x
PD1-84-04	C	NQ	x	x		

I = internal - mineralized
C = confining drillhole

11.10.3 Historical Drill Core and Assays

No drill core has been preserved from the historical drilling in the PD1 deposit. All rock descriptions are based on data provided in historical drill logs. Assay data are also taken from reported results in historical drill logs.

11.10.4 Discussion - Errors Associated with Historical Data.

Given the good fit between historical collar locations on maps and the differential GPS survey of 17 historical collars in the field, there is high confidence in collar locations brought into the database relative to the 2010 drilling and overall location relative to distances between each of the historical drillholes. Both collar and down-hole dip and azimuth measurements are discussed below in context of the impact on XYZ coordinates of the drillhole trajectory and the relative position of the pierce points in mineralization or as confining data points along the geological horizon containing mineralization.

Collar and down-hole dip measurements taken from acid tests are reasonable and provide a reasonable measurement of the change in dip and the calculated Z values for the drillhole trajectories. Errors related to acid test surveys may be in the range of $\pm 1\text{-}3^{\circ}$ reflecting instrumentation and variance both in reading and correcting the measured values. This is not expected to have any impact on the shallower drilling above 250 metres vertical depth. The potential effect of this error will have minor, though increasing impact in the deeper holes below

250 metres vertical depth. The close survey intervals of the acid tests mitigate the impact of a single erroneous reading on the calculated trace of the drillhole with respect to the Z coordinates.

A source of error is likely present in the data relative to location of the drillhole trajectory on the basis of a lack of collar and down-hole measurement of azimuth and the resultant X and Y location of drillhole trajectory. This is based on the following:

1. All historical drilling was orientated on azimuth "grid south" which is taken to be 200 ° to 202° (true) based on comparison of historical data and the 17 re-surveyed drillholes. There is a potential error or ±2° based on reconstruction of the original grid lines from the new survey data. Collars azimuths were entered in Gemcom using at 200 ° azimuth.

   Collar azimuth error will uniformly affect all historical drillholes, excluding vertical holes. The impact of error in the azimuth related to initial grid south orientation of the collar will impart a shift to all pierce points with the relative spacing between points in the mineralized horizon being reasonably preserved. The impact of this error will be marginal for the shallow drillholes however there will be increasing shift in the pierce points as the depth of the drillholes increase and the relative effect of the error is compounded by distance from surface to the pierce point in the mineralized horizon.

2. There is a lack of reliable down-hole azimuth measurement data and this is a likely a significant source of error in the XY coordinates of the hole trajectories and ultimately the pierce points in the targeted horizon, for the deeper holes on the deposit. Holes without azimuth measurements are plotted as straight holes in context of XY coordinates on the basis of the starting direction at the collar as discussed above. Holes are therefore plotted as straight holes on the 200 ° azimuth. Tropari readings from 4 deep historical drillholes are incorporated in the database. The use of this instrument has potential to be affected by the magnetic rocks present at PD1. The loosely spaced intervals of these surveys do not provide a sample density sufficient enough to mitigate errors in these data that can cause significant changes to the drillhole trajectory based on a single erroneous reading.

3. From the azimuth data available (Tropari), it is likely that these limited data indicate a preferential deviation of drillholes to the northwest (to the right of the drill collar) as indicated by the available Tropari readings. These suggest that natural drillhole deviation moves from 200° at the collar to 220° to 235° at the bottom of the deeper holes. It is therefore likely that the use of single collar azimuth reading the entire length of a hole is not representative. As well, not all holes are expected to deviate at a constant rate and therefore relevant spacing between holes will be affected by different rates of deviation. The effect of using a straight trajectory and the impact of differing deviation rates between drillholes will be marginal for shallow drilling. However, this impact will cause significantly more effect on drillhole position with increasing depth of drilling. The overall effect on a per hole basis for the deeper drilling may impact relative pierce point spacing in the mineralized horizon and any resultant resource assigned to a particular drillhole.

12 SAMPLING METHOD AND APPROACH

12.1 Sample Method

This section pertains only to the 2010 drilling conducted on the PD1 deposit. Historical drilling was not subjected to the protocols described herein and there is no record of the exact procedures used at the time. The acceptability of these assay data is discussed under Data Validation

Xstrata Zinc utilizes an internally developed drill core sampling and analysis protocol (the "**Xstrata Protocol**" (Martin, Bloom, Adair, & Rees, 2000) and (Beaudry C. , 2003) which is designed to support and manage Quality Assurance/Quality Control (QA/QC) assessment of the sampling and assay process (**Figure 12-1**). The PD1 drilling program is a Discovery-Stage Project under this protocol.

The Xstrata Protocol controls the flow of the sampling process to ensure consistency of sampling technique, integrity of samples, and representative sampling. It provides for a measurement system to assess assay accuracy and repeatability as well to monitor the performance of the lab conducting the assays through the use of standards, blanks and both replicates duplicates as required. The procedures are uniformly applied to mineralized zones to achieve the best representation of mineralization and any variations that may be present within a mineralized interval.

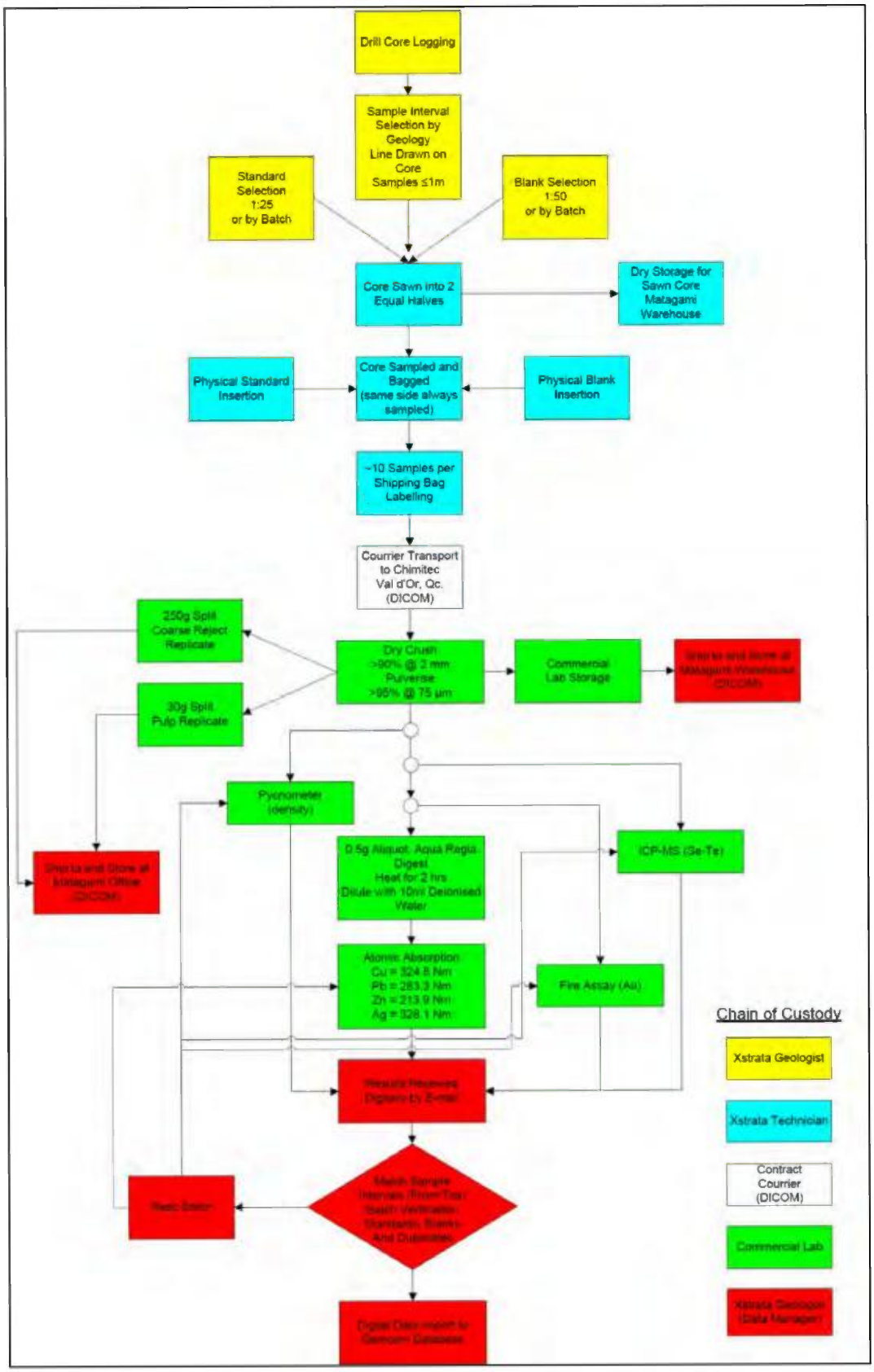


Figure 12-1: Xstrata Protocol flow chart, after (Coté & Lavigne, 2010)

Table 12-1: Xstrata Zinc, recommended rates of insertion of control materials. (Beaudry C. , 2003)

	Stage I	Stage II	Stage III
Standards	>= 1%	>=2%	1 per batch or 1:40
Blanks	>= 1%	>=2%	1 per batch or 1:40
Pulp Check Assays	>= 5%	>= 5% of mineralized samples	>= 5% of mineralized samples
Coarse Crush Replicates	Optional	>= 5%	>= 5% initially until 55 samples collected, afterwards 1%
Core Duplicates	Optional	Optional	>= 5% initially until 55 samples collected, afterwards 1%
Reject PSA	Optional	>= 5%	>= 5% initially until about 30 samples show PSA is acceptable, afterwards 1%

12.2 Sampling Procedure and Sample Preparation

Mineralized intervals containing massive sulphide, semi-massive sulphide and stringer sulphide mineralization with significant sulphide content are sampled as follows:

1) The drill core is logged by an experienced geologist and both lithology and mineralization are clearly marked.

2) Mineralization is further subdivided on geological features with divisions based on grouping intervals of similar sulphide composition and common geological features (texture, fabric etc.).

3) Once detailed geological divisions are made and marked on the core, the geologist marks the core lengthwise, perpendicular to texture, fabric and mineral composition and/or zonation with the objective of equal representation on both sides of the marked core.

4) Sample intervals are marked on the core with individual sample lengths of up to 1 metre in massive sulphide and 1.5 metres in stringer zones. Intervals respect geological divisions.

5) Tags with unique sample numbers are placed in the core box prior to cutting.

6) The marked core is cut along the lengthwise mark and one half of the core is sampled and placed in a clean sample bag with the corresponding sample tag number and sent for assay.

7) Standards and blanks are inserted into the sample batch.

8) Samples are shipped by bonded courier to the lab in batches corresponding to each drillhole.

9) Each sample was measured for specific gravity prior to crushing.

10) Results of analyses are verified and either passed or returned for re-assay.

11) Certified assay results are stored at the Matagami Mill site. The results are also stored in a Gemcom database.

12) Drill logs are stored on site at the Matagami Mill site in hard copy and digitally in the Gemcom data base.

13) Core is stored at the Mattagami Lake Mine site

12.3 Standards

Under the Xstrata Protocol, systematic insertion of control standards is used as the primary method for controlling assay quality reported from the laboratory (**Table 12-1**). The ratio of insertion of standards is approximately 1 standard per 30 samples. The Xstrata Protocol recommends alternating insertions with different standards. For the 2010 PD1 program, one reference standard was used. It was created from pulverized, homogenized mineralization derived from ore pads at the Perseverance Mine and subjected to an exhaustive program of duplicate, replicate and round robin analyses. The standard used for PD1 was chosen on the basis of copper range of the deposit despite a wide difference in zinc. The following standard was used:

Perseverance MT (10.33% Zn, 1.01% Cu)

The standard is bottled in 200-gram containers, and stored in a freezer to prevent oxidation of the material.

12.4 Blanks

Low-grade (< 150 ppm Zn and < 50 ppm Cu) diorite samples were inserted into the sample batches at a minimum frequency of 1:50. The use of blanks is to detect possible contamination at the primary crushing/pulverization stage and to detect possible sample mix-ups at the different laboratories.

13 SAMPLE PREPARATION, ANALYSIS AND SECURITY

13.1 Sample Preparation Statement

All aspects of sample selection preparation and reporting of assays to Donner Metals were conducted by Xstrata Zinc. Employees, officers, directors or associates of Donner Metals were not involved in the sampling procedure. All public disclosure of information regarding assay results from the Matagami Project are reviewed and approved by Xstrata Zinc prior to disclosure by Donner.

13.2 Security

All drill core is collected daily by an Xstrata Zinc geologist or core technician and delivered to the core shack for logging and sampling. The core shack and core storage is located on the Matagami Mill site with 24-hour security.

13.3 Transportation

Samples are sent to the laboratory in sealed fiber bags in sample batches grouped by drillhole. The sealed bags are transported by bonded courier to the laboratory.

13.4 Analyses

Analyses are performed by ALS Chemex in Val d'Or, Quebec, and the results are certified by laboratory managers for ALS in Vancouver, B.C. The minerals division of ALS Chemex is laboratory # 579 accredited by the Standards Council of Canada under the Guidelines for the Accreditation of Mineral Analysis Testing Laboratories, CAN-P-1579 and the General Requirements for the Competence of Testing and Calibration Laboratories,CAN-P-4E ISO/IEC 17025:2005, effective 31 August 2009 and valid until 18 May 2013

At the Chemex lab, each sample is analyzed for specific gravity and crushed to less than 2 mm and then pulverized until 85% passes 75 µm. Base metals (Zn, Cu, Pb, and Ag) were analyzed by atomic absorption spectrometry following aqua regia digestion, gold by fire assay and atomic absorption spectrometry on a 30g sample. Trace elements were analyzed by inductively coupled plasma mass spectrometry or atomic emission spectroscopy following aqua regia digestion.

13.5 Assay Control Measures

As prescribed in the Xstrata Protocol, standard reference samples and blank reference samples are inserted sequentially into assays batches to ensure integrity of the assays process. The standard reference sample Perseverance MT was inserted and within each sample lot or as prescribed under the Xstrata Protocol. A standard is inserted into each sample batch or at a minimum of one per 30 samples if a batch contains more than 30 samples. A blank reference sample of drill core barren of sulphides was also added to each sample batch along the same parameters that for standard sample insertion (minimum one blank sample per batch or 50 samples). Both standard and blank reference samples sequentially added to sample batches ensure proper numbering of the samples, cleanliness of the grinding and pulverizing as well as to monitor sample contamination by the laboratory. The standard and blank insertion met the recommended rates in the Xstrata Protocol for insertion of control samples.

Table 13-1: Insertion rate of control material for 2010 PD1 drillhole sampling program.

Hole	Assays	Standard	Ratio%	Blank	Ratio%
PD1-10-18	**44**	2	4.5	2	4.5
PD1-10-19	**11**	1	9.1	1	9.1
PD1-10-20	**41**	2	4.9	2	4.9
PD1-10-22	**7**	1	14.3	1	14.3
PD1-10-23	**19**	1	5.3	1	5.3
PD1-10-24	**28**	1	3.6	1	3.6
PD1-10-25	**26**	1	3.8	1	3.8
PD1-10-26	**17**	1	5.9	1	5.9
PD1-10-27	**36**	1	2.8	1	2.8
PD1-10-28	**23**	1	4.3	1	4.3
PD1-10-29	**17**	1	5.9	1	5.9
PD1-10-30	**16**	1	6.3	1	6.3
PD1-10-31	**33**	2	6.1	2	6.1
PD1-10-32 Failure	**23**	1	4.3	1	4.3
PD1-10-31 Re-run	**18**	1	5.6	1	5.6
PD1-10-33	**38**	1	2.6	1	2.6
PD1-10-34	**24**	1	4.2	1	4.2
PD1-10-35	**34**	1	2.9	1	2.9
PD1-10-36	**38**	1	2.6	1	2.6
PD1-10-37	**31**	1	3.2	1	3.2
PD1-10-38	**27**	1	3.7	1	3.7
PD1-10-39	**37**	1	2.7	1	2.7
PD1-10-40	**27**	1	3.7	1	3.7
Total	615	26	4.2	26	4.2

13.6 Opinion

In the author's opinion, the protocol applied to the sampling process and QA/QC is robust and will prevent erroneous readings that many result from sampling and/or lab error.

14 DATA VALIDATION AND CORROBORATION

The validation data presented in this section is provided to Donner by Xstrata Zinc whose Qualified Persons have prepared or supervised the preparation of the material. These data presented in this report were provided to Donner on January, 2011 in its original form.

14.1 Site Visits

Visits by the author to Matagami have been made at approximately two month intervals since 2006. The last visit was conducted on October, 2012. No additional drilling has been conducted

at PD1 since that time. All relative material related to the project are reviewed at each visit and include details of new results, core review and program planning. Members of the joint exploration team who are generally present during site visits are:

Gilles Bouchard (géo.)	Exploration Manager	Xstrata Zinc
Gilles Roy (géo.)	Senior Project Geologist and Qualified Person	Xstrata Zinc
Michel Allard (géo.)	Senior Geophysicist	Xstrata Zinc
Michel Dessureault(ing.)	Senior Project Geologist and Qualified Person	Xstrata Zinc
Patrick Carr (géo.)	Geologist	Xstrata Zinc
Mélanie Gagnon,	Géologue stagière	Xstrata Zinc
Richard Nieminen (géo.),	Geologist	Xstrata Zinc

Harvey Keats	CEO	Donner
Robin Adair (Geo)	Vice President and Qualified Person	Donner

14.2 Review of Mineralized Intersections

During various site visits during 2010 and 2011, the author reviewed a number of the mineralized intersections from PD1 produced by drilling in 2010. Historical drillhole intersections for drilling prior to 2010 are were not preserved and therefore not available for review. Verification samples were not taken as the grade of mineralization can be reasonably confirmed visually and the validation process utilized by Xstrata is robust.

14.3 Analytical Validation

The Xstrata Zinc protocol provides that analytical results from base metal assays are inserted into the Gemcom database using a query which matches sample numbers and footage. Sample lengths, sample numbers, lab results and assay results, including blank samples are compared to the geologist's visual assessment of the mineral content to confirm results match the original sample interval.

The standard reference sample used for this project was prepared by Xstrata Zinc from massive sulphide samples taken from Perseverance Mine. The standard chosen for the PD1 project is Perseverance MT. The sample was prepared to represent medium zinc grades and copper grades. This standard was prepared and sent for round-robin testing in June 2009 to three labs in Quebec: ALS Chemex in Val d'Or; Technilab SGB Abitibi, Inc., in Ste-Germaine-Boulé; and Laboratoire Expert, Inc., in Rouyn-Noranda. The standard was also analyzed by the Xstrata labs at the Matagami Mill and the CEZ smelter.

The results of the round-robin tests are assessed by basic statistics. Zinc and copper analyses of lab standard Perseverance MT are shown in the following charts with sample value, median, and quartiles shown on a per lab basis. The normal curves in following histograms show statistics for individual laboratories and the combined data set. The blue curve is the sum of the normal curves for each lab (i.e., a mixed model) equally scaled.

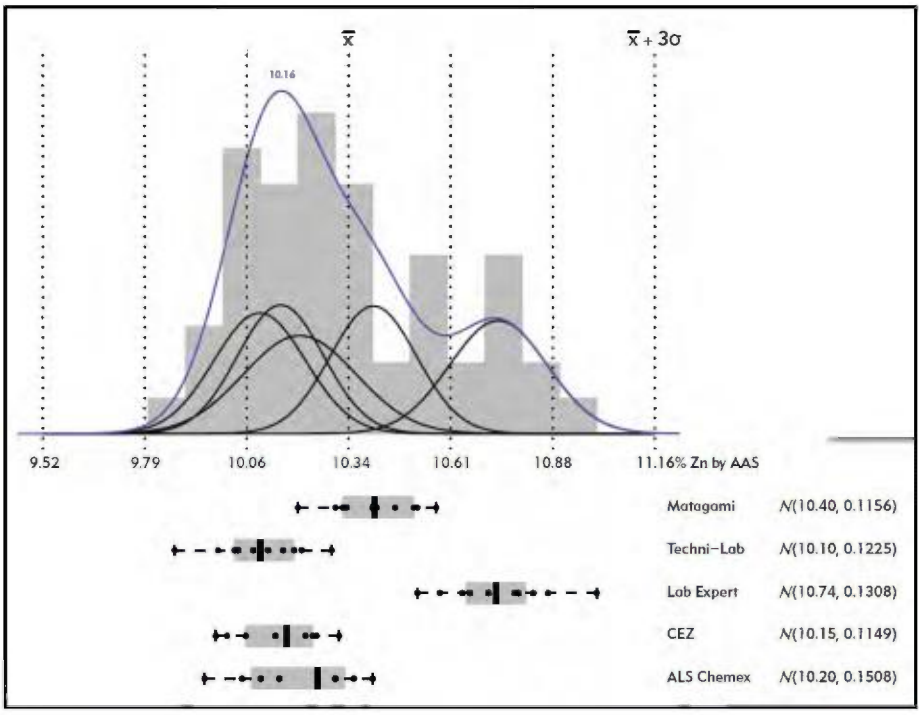


Figure 14-1: Zinc assay performance of Perseverance MT reference sample in round-robin analyses on a per lab basis.

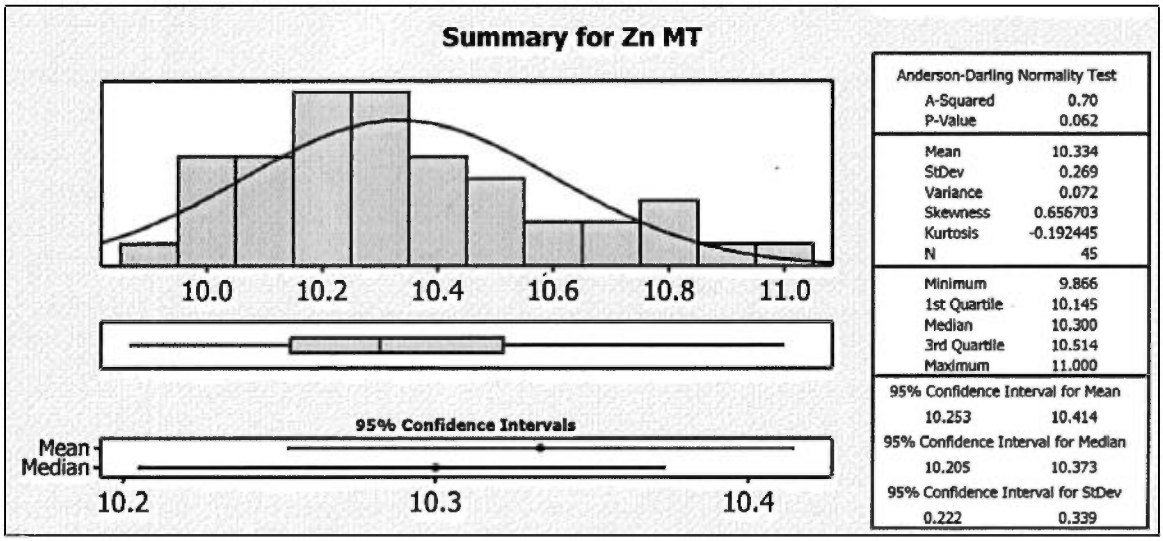


Figure 14-2: Zinc assay performance of Perseverance MT reference sample in round-robin analyses for all labs with basic statistical data.

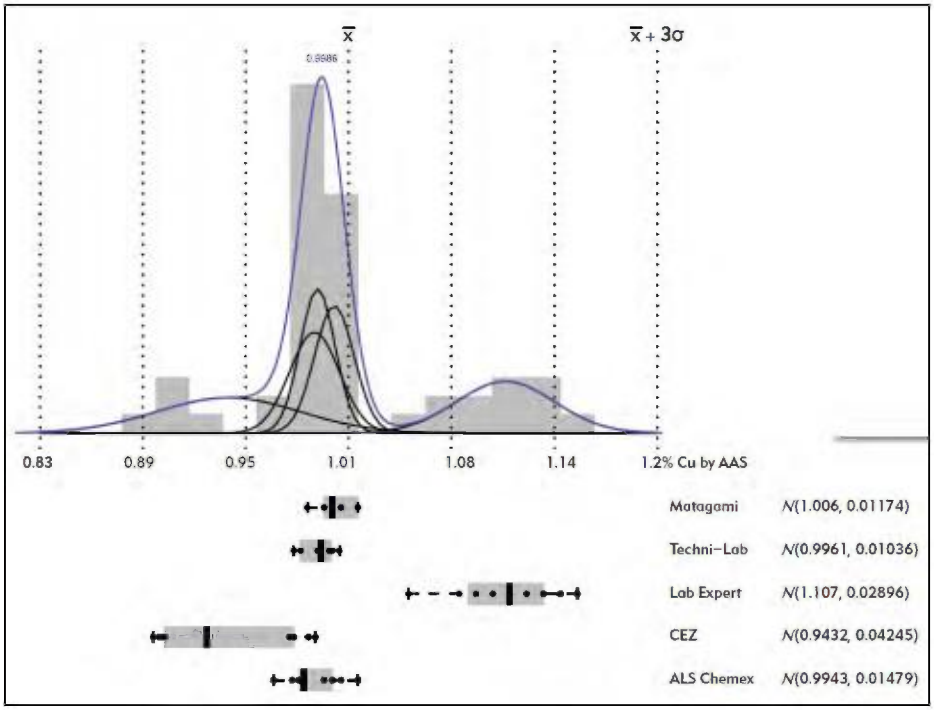


Figure 14-3: Copper assay performance of Perseverance MT reference sample in round-robin analyses on a per lab basis.

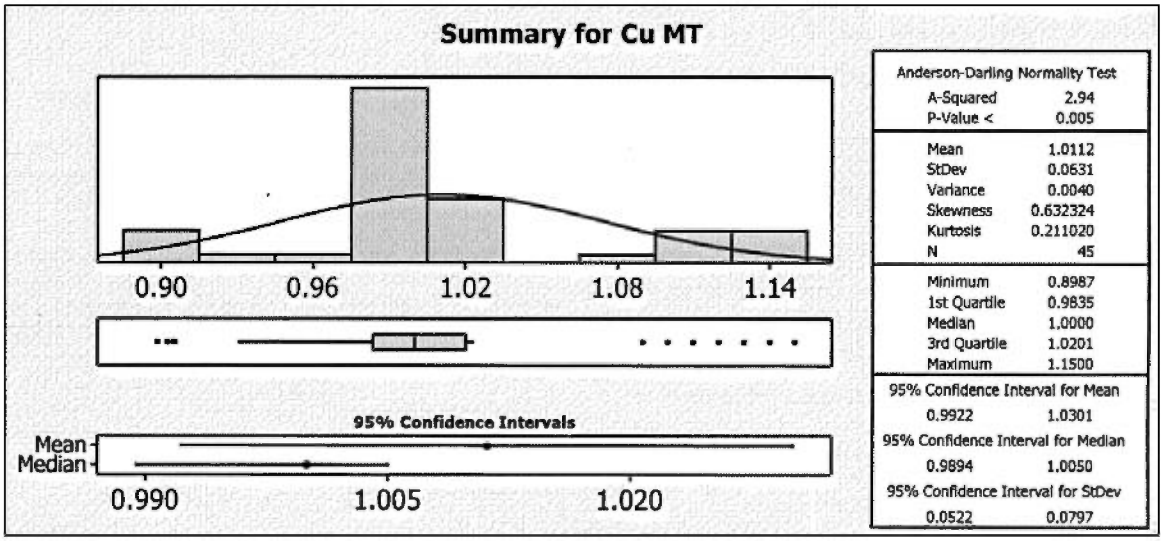


Figure 14-4: Copper assay performance of Perseverance MT reference sample in round-robin analyses for all labs with basic statistical data.

Table 14-1: Perseverance MT standard reference sample statistics.

Zinc			**Acceptable range**	
Mean	10.334		Low	9.527
Standard Deviation	0.269		High	11.141

Copper			**Acceptable range**	
Mean	1.011		Low	0.822
Standard Deviation	0.063		High	1.2

A range of acceptability is based on three standard deviations from the mean of all analyses is 0.83 and 1.20 percent. All standards analyzed with sample batches for this report were between 0.96 and 1.02 percent. These are also within three standard deviations of the mean of ALS Chemex standards.

The analytical result of the inserted standard sample is compared to the target value which is derived by computing the mean of the analysis of the standard at several labs.

14.4 Performance of Standards and Blanks

The performance of the standard sample through the 2010 program at PD1 is provided in the following tables and figures.

Table 14-2: PD1 2010 drill program – performance of reference sample (Perseverance MT).

Hole ID	SAMPLE NO	LAB ID	CERTIF NO	AU GPT	AG PPM	CU2 PCT	PB2 PCT	ZN2 PCT
PD1-10-18	0969017	ALS Chemex	VO10009949	0.085	10.2	0.986	0.033	10.1
PD1-10-18	0969041	ALS Chemex	VO10014866	0.074	9.8	0.956	0.029	9.95
PD1-10-19	0969061	ALS Chemex	VO10018165	0.068	10.3	0.985	0.032	9.79
PD1-10-20	0969073	ALS Chemex	VO10018165	0.027	10.3	0.987	0.031	10.05
PD1-10-20	0969094	ALS Chemex	VO10020509	0.067	9.6	0.995	0.034	10.5
PD1-10-22	0969107	ALS Chemex	VO10020507	0.069	10	0.976	0.038	11.15
PD1-10-23	0969124	ALS Chemex	VO10020508	0.077	10.2	1.02	0.034	10.2
PD1-10-24	0969148	ALS Chemex	VO10021000	0.071	10	0.997	0.032	10.65
PD1-10-25	0969186	ALS Chemex	VO10021960	0	10.8	0.96	0.031	9.79
PD1-10-26	0969201	ALS Chemex	VO10021539	0	10.8	0.964	0.029	9.67
PD1-10-27	0969242	ALS Chemex	VO10103425		10.3	1.02	0.028	9.67
PD1-10-28	0969279	ALS Chemex	VO10104280		10.5	1.02	0.03	9.8
PD1-10-29	0969299	ALS Chemex	VO10105660		9.5	1.015	0.0303	10.2
PD1-10-30	0967911	ALS Chemex	VO10145109		10.4	0.976	0.031	9.41
PD1-10-31	0967928	ALS Chemex	VO10145108		9.1	0.934	0.03	9.68
PD1-10-32	0967979	ALS Chemex	VO10150110		10	1.21	0.037	11.95
PD1-10-32	0967979	Re-Run	VO10150110			1.005		10.25
PD1-10-33	0968902	ALS Chemex	VO10151057		10.8	0.947	0.031	9.54
PD1-10-34	0968935	ALS Chemex	VO10153019		10.1	0.98	0.031	10.05
PD1-10-35	0968966	ALS Chemex	VO10153270		11	0.976	0.03	9.94
PD1-10-36	0968999	ALS Chemex	VO10154544		9.6	0.907	0.027	9.74
PD1-10-37	0969431	ALS Chemex	VO10156822		9.8	1.015	0.03	9.52
PD1-10-38	0969483	ALS Chemex	VO10158414		10	0.966	0.031	10.4
PD1-10-39	0968857	ALS Chemex	VO10159650		9.3	0.994	0.033	9.76

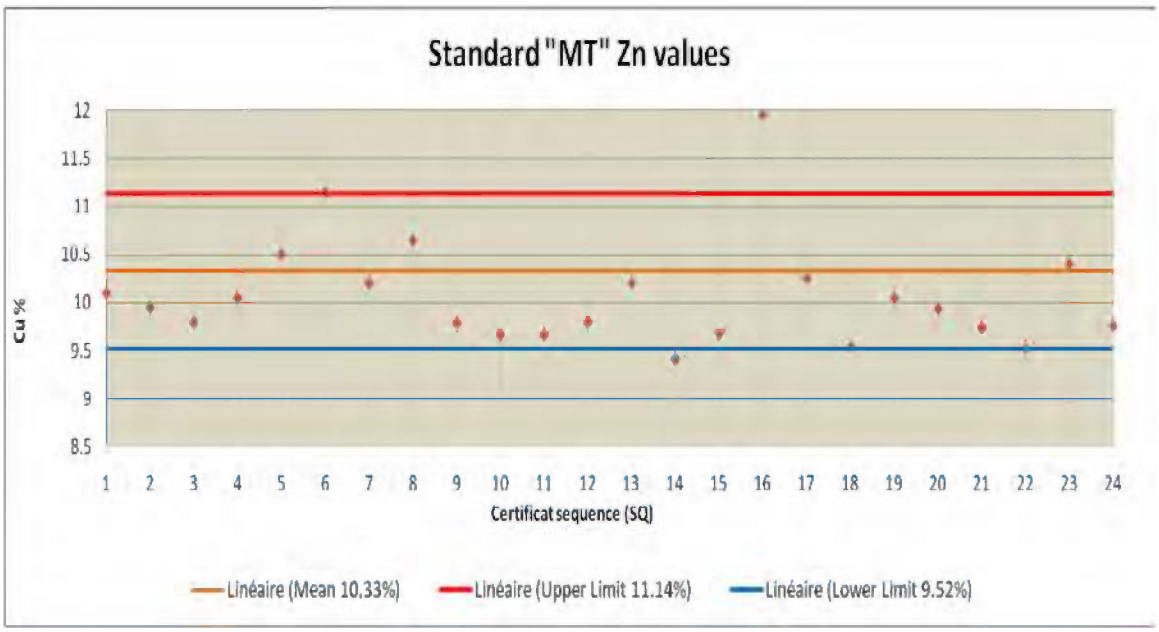


Figure 14-5: Strip chart showing zinc performance for Perseverance MT reference sample for 2010 drill program.

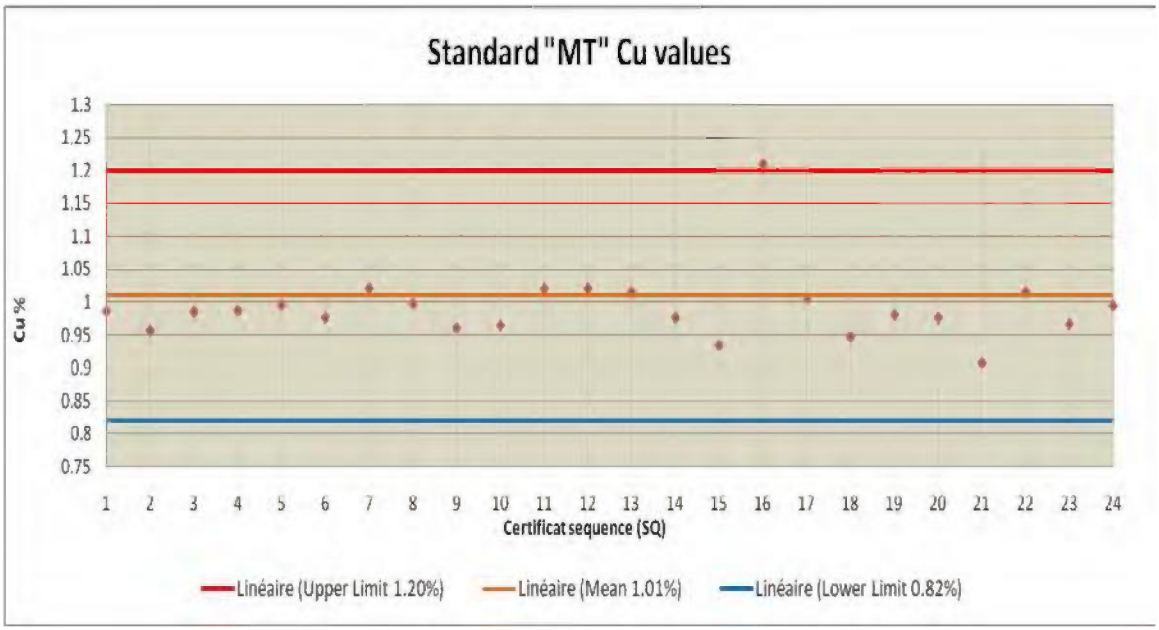


Figure 14-6: Strip chart showing copper performance for Perseverance MT reference sample for 2010 drill program.

Similarly, the performance of blank reference samples is provided in the following tables and figures.

Table 14-3: Performance of blank sample - PD1 2010 drill program.

Hole ID	SAMPLE NO	LAB ID	CERTIF NO	AU GPT	AG PPM	CU PCT	PB2 PCT	ZN2 PCT
PD1-10-18	0969018	ALS Chemex	VO10009949	0.005	0.5	0.002	0.002	0.036
PD1-10-18	0969042	ALS Chemex	VO10014866	0.005	0.3	0.01	0.001	0.021
PD1-10-19	0969060	ALS Chemex	VO10018165	0.005	0.2	0.009	0.003	0.025
PD1-10-20	0969072	ALS Chemex	VO10018165	0.005	0.2	0.019	0.001	0.035
PD1-10-20	0969093	ALS Chemex	VO10020509	0.005	0.2	0.006	0.001	0.015
PD1-10-22	0969108	ALS Chemex	VO10020507	0.005	0.2	0.01	0.001	0.025
PD1-10-23	0969125	ALS Chemex	VO10020508	0.005	0.4	0.092	0.001	0.129
PD1-10-24	0969149	ALS Chemex	VO10021000	0.005	0.7	0.051	0.001	0.131
PD1-10-25	0969187	ALS Chemex	VO10021960	0.005	0.2	0.014	0.001	0.028
PD1-10-26	0969202	ALS Chemex	VO10021539	0.005	0.2	0.008	0.001	0.053
PD1-10-27	0969243	ALS Chemex	VO10103425	0.009	0.2	0.01	0.001	0.116
PD1-10-28	0969280	ALS Chemex	VO10104280	0.009	0.4	0.053	0.001	0.222
PD1-10-29	0969300	ALS Chemex	VO10105660	0.025	0.2	0.01	0.00147	0.0347
PD1-10-30	0967912	ALS Chemex	VO10145109	0.005	0.2	0.004	0.001	0.009
PD1-10-31	0967929	ALS Chemex	VO10145108	0.005	0.2	0.005	0.001	0.021
PD1-10-32	0967980	ALS Chemex	VO10150110	0.005	0.2	0.007	0.001	0.022
PD1-10-32	0967980	Re-run	VO10150110			0.007		0.018
PD1-10-33	0968903	ALS Chemex	VO10151057	0.005	0.2	0.028	0.002	0.038
PD1-10-34	0968936	ALS Chemex	VO10153019	0.005	0.2	0.007	0.001	0.054
PD1-10-35	0968967	ALS Chemex	VO10153270	0.005	0.2	0.01	0.001	0.036
PD1-10-36	0969000	ALS Chemex	VO10154544	0.005	0.2	0.016	0.001	0.036
PD1-10-37	0969432	ALS Chemex	VO10156822	0.007	0.2	0.008	0.001	0.138
PD1-10-38	0969484	ALS Chemex	VO10158414	0.005	0.2	0.012	0.001	0.017
PD1-10-39	0968858	ALS Chemex	VO10159650	0.009	0.2	0.012	0.001	0.016
PD1-10-40	J744013	ALS Chemex	VO10160857	0.005	0.2	0.016	0.001	0.063

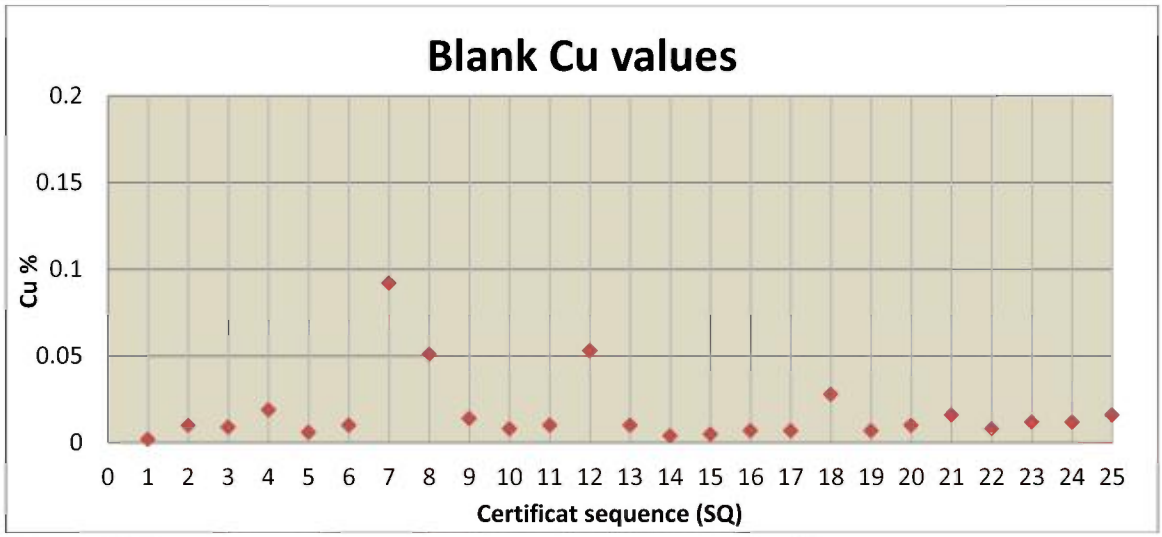


Figure 14-7: Strip chart showing performance blank sample - PD1 2010 drill program.

14.5 Failure Mitigation

A sample batch is rejected and resubmitted for second analysis if the analysis of the standard sample exceeds 3 standard deviations from the mean. In the case of a reject, the second analysis is conducted on pulp rejects. The batch is also subject to re-analysis if the original analysis of the blank indicated metal content above threshold.

During the project, 2 batches were rejected on the basis of being out of limits according to the standard specification. Both batches were sent back for re-assay.

Table 14-4: Example of failure mitigation for the 2010 PD1 drill program.

PD1-10-32
Workorder VO10150110 standard failure investigation

	Sample ID	VO10150110 WEI-21 Recvd Wt. kg	VO10150110 Cu-AA46 Cu %		VO10150110 Cu-OG62 Cu %		VO10150110 Zn-AA46 Zn %		VO10150110 Zn-OG62 Zn %	
		Original	Original	Re-run	Original	Re-run	Original	Re-run	Original	Re-run
1	967956	3.1	0.007	*	*	*	0.072	*	*	*
2	967957	4.52	0.078	*	*	*	1.43	*	1.365	*
3	967958	3.74	0.007	*	*	*	0.598	*	*	*
4	967959	2.65	0.01	*	*	*	0.277	*	*	*
5	967960	3.42	0.024	*	*	*	0.066	*	*	*
6	967961	4.04	0.39	0.382	*	*	4.13	4.08	4.03	4.11
7	967962	2.2	0.017	0.017	*	*	0.164	0.164	*	*
8	967963	5.59	0.545	0.555	*	*	0.556	0.563	*	*
9	967964	1.37	0.012	0.012	*	*	0.119	0.125	*	*
10	967965	0.65	0.001	0.002	*	*	0.075	0.075	*	*
11	967966	2.3	0.109	0.108	*	*	4.52	4.56	**3.76**	**4.13**
12	967967	4.25	0.244	0.259	*	*	0.78	0.81	*	*
13	967968	4.13	0.369	0.361	*	*	0.177	0.176	*	*
14	967969	6.35	0.541	0.522	*	*	0.216	0.214	*	*
15	967970	4.09	1.04	1.065	1.065	1.075	0.064	0.06	*	*
16	967971	4.7	1.2	1.19	1.2	1.225	0.042	0.041	*	*
17	967972	4.68	0.955	0.99	0.985	0.982	0.044	0.051	*	*
18	967973	3.09	0.73	0.632	*	*	0.061	0.059	*	*
19	967974	4.31	0.99	1.035	1.005	1.01	0.044	0.05	*	*
20	967975	4.74	1.82	1.735	1.79	1.775	0.233	0.226	*	*
21	967976	2.24	0.616	0.615	*	*	0.029	0.02	*	*
22	967977	2.81	0.36	0.354	*	*	0.037	0.028	*	*
23	967978	1.91	0.022	0.021	*	*	0.027	0.022	*	*
24	967979	0.12	**1.21**	**1.005**	1	1.01	**11.95**	**10.25**	10.25	10.15
25	967980	0.49	0.007	0.007	*	*	0.022	0.018	*	*

14.6 Historical Assay Data

Under the 2010 drill program three historical holes were twinned for geological and assay validation purposes. The objective of this exercise was to provide reasonable confidence that historically reported assays results were representative of the mineralization. The holes twinned are as follows:

Table 14-5: Twinned historical holes.

Historical DDH	Year Drilled	Company	Twin 2010 DDH
PD1-76-02	1976	Orchan Mines	PD1-10-27
PD1-76-03	1976	Orchan Mines	PD1-10-28
121G-02	1973	Phelps Dodge	PD1-10-29

Geological fit of the intersected mineralization and both individual assays and assay composites were compared. Basic statistics were utilized to assess correlation between historical and recent drilling for length of intersection, zinc, copper and silver values on a composite basis.

Table 14-6: Comparative assay data between DDH's PD1-10-27 and PD1-76-02.

Hole drilled in 2010

HOLE-ID	FROM	TO	LENGTH	SAMPLE_NO	CERTIF_NO	AU_GPT	AG_PPM	CU2_PCT	PB2_PCT	ZN2_PCT	SG
PD1-10-27	52.00	53.00	1.00	0969229	VO10103425	0.011	1.4	0.005	0.006	0.035	2.84
PD1-10-27	53.00	53.50	0.50	0969230	VO10103425	0.055	29.7	0.323	0.027	1.205	3.3
PD1-10-27	53.50	54.50	1.00	0969231	VO10103425	0.106	25.2	0.601	0.019	6.94	4.71
PD1-10-27	54.50	55.60	1.10	0969232	VO10103425	0.084	7.7	0.609	0.022	6.32	4.75
PD1-10-27	55.60	57.00	1.40	0969233	VO10103425	0.068	14.5	0.624	0.02	1.46	4.58
PD1-10-27	57.00	58.00	1.00	0969234	VO10103425	0.053	16.1	0.456	0.021	4.79	4.53
PD1-10-27	58.00	59.30	1.30	0969235	VO10103425	0.059	11.3	0.206	0.019	8.47	4.66
PD1-10-27	59.30	60.60	1.30	0969236	VO10103425	0.01	0.5	0.009	0.009	0.073	2.8
PD1-10-27	60.60	62.00	1.40	0969237	VO10103425	0.008	0.4	0.006	0.011	0.064	2.81
PD1-10-27	62.00	63.50	1.50	0969238	VO10103425	0.122	12.3	0.797	0.033	7.88	4.7
PD1-10-27	63.50	65.10	1.60	0969239	VO10103425	0.128	15.5	0.589	0.032	14.4	4.53
PD1-10-27	65.10	66.70	1.60	0969240	VO10103425	0.158	22.4	1.06	0.026	4.92	4.67
PD1-10-27	66.70	68.50	1.80	0969241	VO10103425	0.036	4.5	0.119	0.012	10.4	3.37
PD1-10-27	68.50	69.60	1.10	0969244	VO10103425	0.084	4.7	0.318	0.019	4.81	4.38
PD1-10-27	69.60	70.90	1.30	0969245	VO10103425	0.055	5	0.162	0.019	1.27	4.64
PD1-10-27	70.90	72.30	1.40	0969246	VO10103425	0.079	4.5	0.238	0.018	1.16	4.81
PD1-10-27	72.30	73.80	1.50	0969247	VO10103425	0.158	8.5	0.528	0.061	0.508	4.69
PD1-10-27	73.80	74.90	1.10	0969248	VO10103425	0.159	23.5	0.293	0.054	0.434	4.76
PD1-10-27	74.90	76.00	1.10	0969249	VO10103425	0.087	7.7	0.784	0.015	0.439	3.93
PD1-10-27	76.00	77.50	1.50	0969250	VO10103425	0.074	5.1	0.689	0.011	0.112	3.85
PD1-10-27	77.50	78.50	1.00	0969251	VO10103425	0.028	1	0.019	0.007	0.113	3.34
PD1-10-27	78.50	80.00	1.50	0969252	VO10103425	0.109	5.1	1.1	0.014	5.84	4.65
PD1-10-27	80.00	81.30	1.30	0969253	VO10103425	0.064	3.7	1.18	0.009	3.27	4.3
PD1-10-27	81.30	82.80	1.50	0969254	VO10103425	0.086	6.1	1.795	0.009	1.785	4.25
PD1-10-27	82.80	84.20	1.40	0969255	VO10103425	0.108	15	0.99	0.022	2.84	4.39
PD1-10-27	84.20	85.70	1.50	0969256	VO10103425	0.043	6.5	0.148	0.009	0.048	3.38
PD1-10-27	85.70	87.00	1.30	0969257	VO10103425	0.054	4.3	0.951	0.005	0.038	4.23
PD1-10-27	87.00	88.60	1.60	0969258	VO10103425	0.03	1.5	0.694	0.005	0.044	3.69
PD1-10-27	88.60	90.00	1.40	0969259	VO10103425	0.023	1.2	0.506	0.003	0.441	3.1
PD1-10-27	90.00	91.50	1.50	0969260	VO10103425	0.018	0.8	0.004	0.008	0.095	2.85
PD1-10-27	91.50	93.00	1.50	0969261	VO10103425	0.017	0.5	0.067	0.001	0.356	2.9
PD1-10-27	93.00	94.50	1.50	0969262	VO10103425	0.005	0.4	0.007	0.003	0.143	2.82
PD1-10-27	94.50	95.70	1.20	0969263	VO10103425	0.007	0.3	0.092	0.003	0.063	2.92
PD1-10-27	95.70	97.10	1.40	0969264	VO10103425	0.042	4.3	0.863	0.011	0.033	3.84
PD1-10-27	97.10	97.80	0.70	0969265	VO10103425	0.006	0.3	0.015	0.003	0.026	2.91
PD1-10-27	97.80	99.00	1.20	0969266	VO10103425	0.005	0.2	0.015	0.006	0.05	2.81

Hole drilles in 1976

HOLE-ID	FROM	TO	LENGTH	SAMPLE_NO	AG_PPM	CU2_PCT	ZN2_PCT	SG
PD1-76-02	50.6	51.82	1.22	37520	32.88	0.99	1.83	3.956
PD1-76-02	51.82	53.34	1.52	37521	27.05	0.64	3.21	3.956
PD1-76-02	53.34	54.41	1.07	37522	27.05	0.33	5.98	3.956
PD1-76-02	54.41	55.47	1.06	37523	3.77	0.03	0.17	3
PD1-76-02	55.47	57	1.53	37524	30.82	0.53	2.42	3.956
PD1-76-02	57	58.52	1.52	37525	22.95	0.63	0.39	3.956
PD1-76-02	58.52	60.2	1.68	37526	3.77	0.03	0.13	2.842
PD1-76-02	60.2	60.96	0.76	37527	11.64	0.18	8.55	3.956
PD1-76-02	60.96	62.48	1.52	37528	17.12	0.82	6.68	3.956
PD1-76-02	62.48	64.01	1.53	37529	17.12	0.53	11.94	3.956
PD1-76-02	64.01	65.53	1.52	37530	11.64	0.49	2.22	3.956
PD1-76-02	65.53	67.06	1.53	37531	7.53	0.14	4.44	3.956
PD1-76-02	67.06	68.58	1.52	37532	13.7	2.32	2.33	3.956
PD1-76-02	68.58	70.1	1.52	37533	11.64	0.5	1.99	3.956
PD1-76-02	70.1	71.02	0.92	37534	13.7	0.68	0.8	3.956
PD1-76-02	71.02	71.63	0.61	37535	15.41	1.08	0.11	3.00
PD1-76-02	71.63	73.15	1.52	37536	17.12	1.04	2.74	3.00
PD1-76-02	73.15	74.68	1.53	37537	15.75	1.47	2.49	3.00
PD1-76-02	74.68	76.2	1.52	37538	11.64	0.64	3.05	3.00
PD1-76-02	76.2	77.72	1.52	37539	7.53	0.12	1.09	3.00
PD1-76-02	77.72	79.25	1.53	37540	3.77	0.14	0.09	3.00
PD1-76-02	79.25	80.77	1.52	37541	5.48	0.27	0.12	3.00
PD1-76-02	80.77	82.3	1.53	37542	5.48	0.5	0.08	3.00
PD1-76-02	82.3	83.82	1.52	37543	5.48	0.29	0.15	3.00
PD1-76-02	83.82	85.34	1.52	37544	7.53	0.46	0.12	3.00
PD1-76-02	85.34	86.87	1.53	37545	15.41	1.25	0.29	3.00
PD1-76-02	86.87	88.39	1.52	37546	1.71	0.07	0.49	3.00
PD1-76-02	88.39	89.92	1.53	37547	3.08	0.08	1.82	3.00
PD1-76-02	89.92	91.44	1.52	37548	1.37	0.04	0.21	3.00
PD1-76-02	91.44	92.96	1.52	37549	5.14	0.38	0.18	3.00
PD1-76-02	92.96	93.73	0.77	37550	3.08	0.27	0.25	3.00

SG weighted

HOLE-ID	FROM	TO	LENGTH			AU_GPT	AG_GPT	CU_PCT	PB_PCT	ZN_PCT	SG
PD1-10-27	53.50	69.60	16.10			0.08	12.11	0.50	0.02	6.43	4.17
PD1-10-27	78.50	84.20	5.70			0.09	7.47	1.27	0.01	3.50	4.40
PD1-10-27	53.50	84.20	30.70			0.09	10.02	0.62	0.02	4.16	4.258

SG weighted

HOLE-ID	FROM	TO	LENGTH		AG_GPT	CU_PCT	ZN_PCT	SG
PD1-76-02	51.82	68.58	16.76		16.89	0.61	4.02	3.78
PD1-76-02	71.63	76.20	4.57		14.84	1.05	2.76	3.00
PD1-76-02	51.82	76.20	24.38		16.06	0.69	3.48	3.635

NOT SG weighted

HOLE-ID	FROM	TO	LENGTH			AU_GPT	AG_GPT	CU_PCT	PB_PCT	ZN_PCT	SG
PD1-10-27	53.50	69.60	16.10			0.08	11.08	0.45	0.02	6.13	4.17
PD1-10-27	78.50	84.20	5.70			0.09	7.48	1.27	0.01	3.45	4.40
PD1-10-27	53.50	84.20	30.70			0.08	9.43	0.59	0.02	4.03	4.258

NOT SG weighted

HOLE-ID	FROM	TO	LENGTH		AG_GPT	CU_PCT	ZN_PCT	SG
PD1-76-02	51.82	68.58	16.76		16.32	0.59	3.85	3.78
PD1-76-02	71.63	76.20	4.57		14.84	1.05	2.76	3.00
PD1-76-02	51.82	76.20	24.38		15.63	0.69	3.32	3.635

Table 14-7: Comparative assay data between DDH's PD1-10-28 and PD1-76-03.

Hole drilled in 2010

HOLE-ID	FROM	TO	LENGTH	SAMPLE_NO	CERTIF_NO	AU_GPT	AG_PPM	CU2_PCT	PB2_PCT	ZN2_PCT	SG
PD1-10-28	57.00	58.10	1.10	0969267	VO10104280	0.035	0.2	0.003	0.083	0.067	2.87
PD1-10-28	58.10	59.80	1.70	0969268	VO10104280	0.034	6.4	0.051	0.469	16.95	4.30
PD1-10-28	59.80	60.70	0.90	0969269	VO10104280	0.063	99.9	1.255	0.149	1.835	3.16
PD1-10-28	60.70	62.00	1.30	0969270	VO10104280	0.182	137	0.63	0.156	3.67	4.21
PD1-10-28	62.00	63.50	1.50	0969271	VO10104280	0.104	36.9	0.974	0.048	7.37	4.27
PD1-10-28	63.50	65.00	1.50	0969272	VO10104280	0.09	29	1.08	0.052	3.1	3.80
PD1-10-28	65.00	66.30	1.30	0969273	VO10104280	0.1	9.5	0.486	0.028	5.41	4.43
PD1-10-28	66.30	67.80	1.50	0969274	VO10104280	0.156	15.1	1.415	0.055	2.21	4.56
PD1-10-28	67.80	69.30	1.50	0969275	VO10104280	0.26	56.1	3.55	0.054	3.78	3.99
PD1-10-28	69.30	70.90	1.60	0969276	VO10104280	0.107	31.8	2.73	0.052	2.45	3.74
PD1-10-28	70.90	72.40	1.50	0969277	VO10104280	0.18	16.5	1.255	0.144	4.82	4.13
PD1-10-28	72.40	74.00	1.60	0969278	VO10104280	0.135	8	1.515	0.011	5.27	4.09
PD1-10-28	74.00	75.50	1.50	0969281	VO10104280	0.229	21.1	1.87	0.021	0.994	4.27
PD1-10-28	75.50	77.00	1.50	0969282	VO10104280	0.201	20.6	0.878	0.021	0.857	4.55
PD1-10-28	77.00	78.50	1.50	0969283	VO10104280	0.226	22.8	0.559	0.016	1.805	4.45
PD1-10-28	78.50	80.00	1.50	0969284	VO10104280	0.227	23.4	1.175	0.019	0.36	4.47
PD1-10-28	80.00	81.50	1.50	0969285	VO10104280	0.222	26.4	0.446	0.024	0.335	4.55
PD1-10-28	81.50	83.00	1.50	0969286	VO10104280	0.111	11.6	0.67	0.016	2.96	4.53
PD1-10-28	83.00	84.50	1.50	0969287	VO10104280	0.174	18.6	1.535	0.01	0.279	4.53
PD1-10-28	84.50	85.80	1.30	0969288	VO10104280	0.071	10.7	1.36	0.01	0.147	4.61
PD1-10-28	85.80	87.30	1.50	0969289	VO10104280	0.051	5.2	0.21	0.012	0.244	4.16
PD1-10-28	87.30	88.20	0.90	0969290	VO10104280	0.062	3	0.147	0.016	0.085	4.07
PD1-10-28	88.20	89.50	1.30	0969291	VO10104280	0.008	0.2	0.03	0.003	0.05	2.91

Hole drilles in 1976

HOLE-ID	FROM	TO	Length	SAMPLE_NO	AG_PPM	CU2_PCT	ZN2_PCT	SG
PD1-76-03	59.59	60.96	1.37	37551	5.14	0.12	21.85	3.956
PD1-76-03	60.96	62.48	1.52	37552	68.15	1.22	5.3	3.956
PD1-76-03	62.48	64.01	1.53	37553	68.15	1.31	4.6	3.956
PD1-76-03	64.01	65.53	1.52	37554	49.32	1.78	2.83	3.956
PD1-76-03	65.53	67.06	1.53	37555	11.99	0.56	4.54	3.956
PD1-76-03	67.06	68.58	1.52	37556	13.7	1.1	5.82	3.956
PD1-76-03	68.58	70.1	1.52	37557	51.03	1.93	4.53	3.956
PD1-76-03	70.1	71.63	1.53	37558	20.21	1.81	3.91	3.956
PD1-76-03	71.63	73.15	1.52	37559	13.7	0.93	3.4	3.956
PD1-76-03	73.15	74.68	1.53	37560	18.84	1.64	4.26	3.956
PD1-76-03	74.68	76.2	1.52	37561	23.97	1.23	0.3	3.956
PD1-76-03	76.2	77.72	1.52	37562	15.41	1.09	1.11	3.956
PD1-76-03	77.72	79.25	1.53	37563	18.84	1.54	0.54	3.956
PD1-76-03	79.25	80.77	1.52	37564	16.78	0.33	0.91	3.956
PD1-76-03	80.77	82.3	1.53	37565	10.27	0.46	1.67	3.956
PD1-76-03	82.3	83.82	1.52	37566	13.7	0.97	1.49	3.956
PD1-76-03	83.82	85.34	1.52	37567	8.56	1.07	0.58	3.956
PD1-76-03	85.34	86.87		37568	3.42	0.32	0.41	3.956
PD1-76-03	86.87	88.09		37569	3.42	0.19	0.1	3.956

SG weighted

HOLE-ID	FROM	TO	Length			AU_GPT	AG_PPM	CU2_PCT	PB2_PCT	ZN2_PCT	SG
PD1-10-28	58.10	75.50	17.4			0.14	34.38	1.39	0.11	5.16	4.11
PD1-10-28	75.50	85.80	10.3			0.18	19.29	0.94	0.02	0.98	4.53
PD1-10-28	58.10	85.80	27.7			0.15	28.42	1.21	0.07	3.51	4.26

SG weighted

HOLE-ID	FROM	TO	Length		AG_PPM	CU2_PCT	ZN2_PCT	SG
PD1-76-03	59.59	74.68	15.09		32.28	1.25	5.94	3.96
PD1-76-03	74.68	85.34	10.66		15.36	0.96	0.94	3.96
PD1-76-03	59.59	85.34	25.75		25.28	1.13	3.87	3.96

NOT SG weighted

HOLE-ID	FROM	TO	Length			AU_GPT	AG_PPM	CU2_PCT	PB2_PCT	ZN2_PCT	SG
PD1-10-28	58.10	75.50	17.4			0.14	35.46	1.42	0.11	5.06	4.11
PD1-10-28	75.50	85.80	10.3			0.18	19.32	0.94	0.02	0.58	4.53
PD1-10-28	58.10	85.80	27.7			0.15	29.46	1.24	0.07	3.54	4.26

NOT SG weighted

HOLE-ID	FROM	TO	Length		AG_PPM	CU2_PCT	ZN2_PCT	SG
PD1-76-03	59.59	74.68	15.09		32.28	1.25	5.94	3.96
PD1-76-03	74.68	85.34	10.66		15.36	0.96	0.94	3.96
PD1-76-03	59.59	85.34	25.75		25.28	1.13	3.87	3.96

Table 14-8: Comparative assay data between DDH's PD1-10-29 and 121G-02.

Hole drilled in 2010

HOLE-ID	FROM	TO	Length	SAMPLE_NO	CERTIF_NO	AU_GPT	AG_PPM	CU2_PCT	PB2_PCT	ZN2_PCT	SG
PD1-10-29	99	99.7	0.7	0969292	VO10105660	0.01	3.4	0.015	0.00713	0.0511	2.86
PD1-10-29	99.7	100.9	1.2	0969293	VO10105660	0.081	54.6	0.097	0.01955	30	4.34
PD1-10-29	100.9	102	1.1	0969294	VO10105660	0.037	7.8	0.229	0.0173	22.9	4.48
PD1-10-29	102	103	1	0969295	VO10105660	0.083	39.9	0.235	0.0214	6.56	4.57
PD1-10-29	103	104	1	0969296	VO10105660	0.012	0.8	0.007	0.01475	0.486	3.14
PD1-10-29	104	105.2	1.2	0969297	VO10105660	0.014	1	0.061	0.01515	0.177	3.24
PD1-10-29	105.2	106.6	1.4	0969298	VO10105660	0.118	5.1	0.251	0.0395	0.0326	4.56
PD1-10-29	106.6	107.4	0.8	0969301	VO10105660	0.013	0.2	0.005	0.00061	0.0278	2.76
PD1-10-29	114.7	115.6	0.9	0969302	VO10105660	0.005	0.2	0.004	0.00014	0.0297	2.77
PD1-10-29	115.6	116.9	1.3	0969303	VO10105660	0.036	2.4	0.283	0.00311	0.072	3.14
PD1-10-29	116.9	118.5	1.6	0969304	VO10105660	0.171	14.5	1.07	0.01075	0.206	4.49
PD1-10-29	118.5	120	1.5	0969305	VO10105660	0.17	13.1	0.294	0.0056	0.214	4.62
PD1-10-29	120	121	1	0969306	VO10105660	0.131	10.3	0.594	0.00562	0.0903	4.51
PD1-10-29	121	121.9	0.9	0969307	VO10105660	0.138	10.1	0.659	0.00477	0.0378	4.41
PD1-10-29	121.9	123.4	1.5	0969308	VO10105660	0.03	2.5	0.219	0.00331	0.0309	3.76
PD1-10-29	123.4	124.7	1.3	0969309	VO10105660	0.016	0.7	1.165	0.00055	0.054	3.67
PD1-10-29	124.7	125.9	1.2	0969310	VO10105660	0.005	0.2	0.01	0.00014	0.0369	2.91

Hole drilled in 1973

HOLE-ID	FROM	TO	Length	SAMPLE_NO	AG_PPM	CU2_PCT	ZN2_PCT	SG
121G-02	78.64	79.55	0.91	133A	4.11	0.01	0.02	2.842
121G-02	84.43	87.48	3.05	134A	3.77	0.01	0.08	2.842
121G-02	87.48	89.92	2.44	135A	1.37	0.01	0.02	2.842
121G-02	89.92	92.05	2.13	174	3.08	0.01	0.08	2.842
121G-02	92.05	93.57	1.52	1	52.4	0.23	27.24	3.956
121G-02	93.57	95.1	1.53	2	21.92	1.18	15.43	3.956
121G-02	95.1	96.62	1.52	3	8.22	0.08	0.32	3
121G-02	96.62	98.76	2.14	4	6.16	0.42	0.21	3
121G-02	98.76	99.97	1.21	175	11.3	0.01	0.04	3
121G-02	99.97	101.5	1.53	5	35.27	2.9	1.9	3
121G-02	101.5	102.72	1.22	6	8.9	0.26	0.06	3
121G-02	102.7	104.24	1.52	136A	2.05	0.005	0.03	3
121G-02	104.2	105.77	1.53	7	7.53	0.69	0.12	3
121G-02	105.8	107.29	1.52	137A	1.37	0.06	0.02	3
121G-02	107.3	109.88	2.59	138A	1.03	0.005	0.02	3
121G-02	109.9	110.95	1.07	8	14.04	0.48	0.36	3
121G-02	111	113.39	2.44	139A	2.05	0.005	0.03	3
121G-02	113.4	114.91	1.52	9	21.23	1.06	0.06	3
121G-02	114.9	116.43	1.52	10	3.77	0.92	0.07	3
121G-02	116.4	118.87	2.44	11	3.42	0.87	0.06	3
121G-02	122.7	125.43	2.75	140A	4.45	0.3	0.03	3
121G-02	127	128.32	1.37	141	5.48	0.42	0.14	3
121G-02	129.5	132.74	3.2	142	1.37	0.02	0.02	3
121G-02	149.1	151.49	2.44	143	2.05	0.01	0.01	3

SG weighted

HOLE-ID	FROM	TO	Length	AU_GPT	AG_PPM	CU2_PCT	PB2_PCT	ZN2_PCT	SG
PD1-10-29	99.70	103.00	3.3	0.07	34.35	0.18	0.02	20.34	4.46

SG weighted

HOLE-ID	FROM	TO	Length	AG_PPM	CU2_PCT	ZN2_PCT	SG
121G-02	92.05	95.10	3.05	37.11	0.71	21.32	3.96

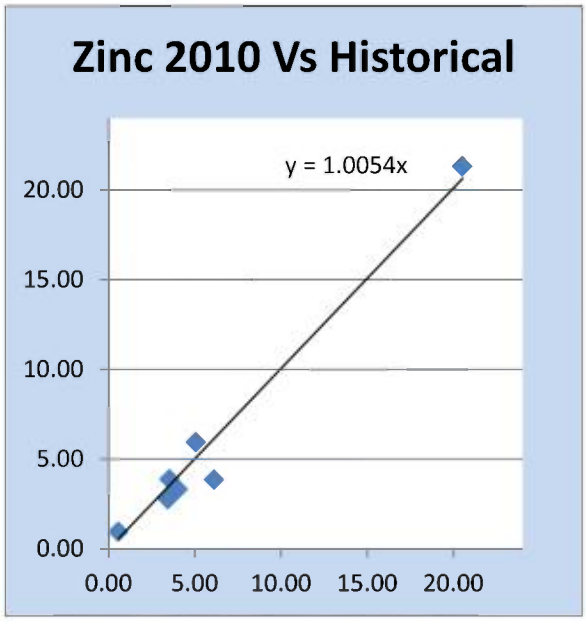
NOT SG weighted

HOLE-ID	FROM	TO	Length	AU_GPT	AG_PPM	CU2_PCT	PB2_PCT	ZN2_PCT	SG
PD1-10-29	99.70	103.00	3.3	0.07	34.55	0.18	0.02	20.53	4.46

NOT SG weighted

HOLE-ID	FROM	TO	Length	AG_PPM	CU2_PCT	ZN2_PCT	SG
121G-02	92.05	95.10	3.05	37.11	0.71	21.32	3.96

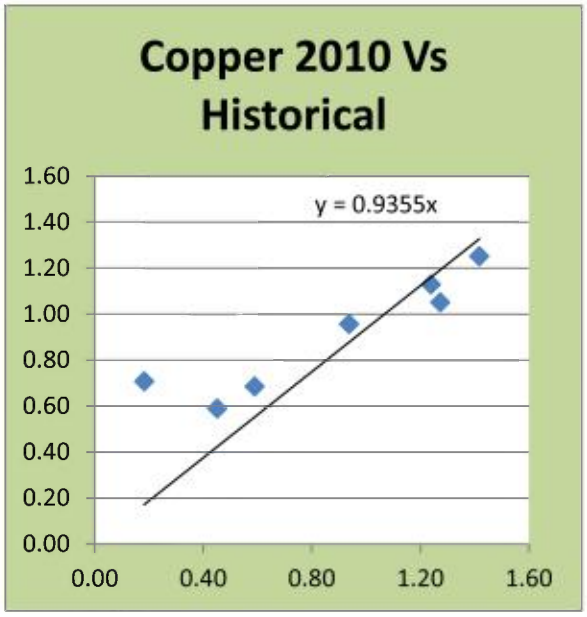
Table 14-9: Comparison of historical and 2010 zinc composite assays for twinned drillholes.



Composite result	2010	historical
Zinc	6.13	3.85
	3.45	2.76
Coef. Correlation	4.03	3.32
0.988	5.06	5.94
	0.58	0.94
	3.54	3.87
	20.53	21.32

Excellent correlation

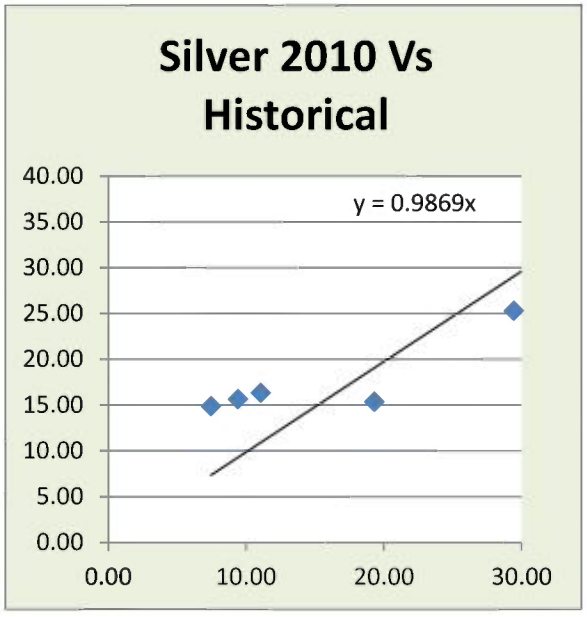
Table 14-10: Comparison of historical and 2010 copper composite assays for twinned drillholes.



Composite result	2010	historical
Copper	0.45	0.59
	1.27	1.05
Coef. Correlation	0.59	0.69
0.933	1.42	1.25
	0.94	0.96
	1.24	1.13
	0.18	0.71

Excellent correlation

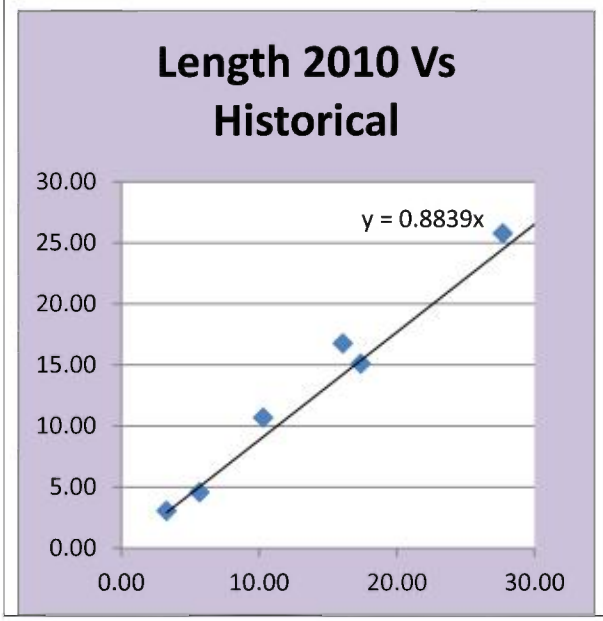
Table 14-11: Comparison of historical and 2010 silver composite assays for twinned drillholes.



Composite result	2010	historical
Silver	11.08	16.32
	7.48	14.84
Coef. Correlation	9.43	15.63
0.922	35.46	32.28
	19.32	15.36
	29.46	25.28
	34.55	37.11

Globally a good correlation although the points show a higher spread than the Length, Cu and Zn.

Table 14-12: Comparison of historical and 2010 zinc composite assays length for twinned drillholes.



Composite result	2010	historical
Length	16.10	16.76
	5.70	4.57
Coef. Correlation	30.70	24.38
0.983	17.40	15.09
	10.30	10.66
	27.70	25.75
	3.30	3.05

Excellent correlation although the 2010 values are slightly higher

14.7 Authors Opinion

It is the opinion of the author that the assay and specific gravity data provided to Donner are valid for the 2010 drilling and these data have a high confidence rating. There is good correlation of assay data utilized from historical drillholes where drilling in 2010 was conducted to validate the historical results. As such, there are reasonable grounds to include the historical data in the grade and tonnage assessment of the PD1 deposit.

15 ADJACENT PROPERTIES

The immediate area around the 9 mineral claims that cover the PD1 deposit area is held by Xstrata Canada Corporation and Phelps Dodge Corporation of Canada under a 1980 exploration and development agreement. Current interests are 78.9% Xstrata and 21.1% Phelps Dodge. Phelps Dodge has elected to not to participate in the previous work plans proposed under the MLOJVA.

There are no resources or mine infrastructure on the immediately adjacent property.

16 SULPHIDE CHARACTERIZATION AND PREDICTIVE METALLURGY

A total of 16 samples of drill core consisting of representative samples of mineralization from 6 drillholes completed through mineralization in 2010 in the upper portion of the deposit were submitted to Terra Mineralogical Services for sulphide characterization and predictive petrographic metallurgical analyses (**Appendix V**). This process predicts the behavior of the sulphides in the metallurgical process by a detailed petrographic study of mineralization based on observed mineralogical features and middling ratings. Terra Mineralogical Services has extensive experience with the application of the predictive analysis in the Matagami Camp and has analyzed samples from Perseverance, Bell Allard, Isle Dieu and Bracemac-McLeod among others.

Sulphide species range from dominantly massive to locally semi-massive sulphides and composed of fine-grained pyrite, sphalerite and chalcopyrite with lesser pyrrhotite and minor galena. Gangue minerals are magnetite, carbonate, quartz and Chlorite. Trace amounts of galena and altaite (Pb Telluride as inclusions in chalcopyrite) were also observed in only a few samples. Altaite occurs as minute inclusions in chalcopyrite (PD1-10-19).Main differences from typical Matagami sulphides are a finer grain size and moderately complex mineral textures (Di Prisco, 2010).

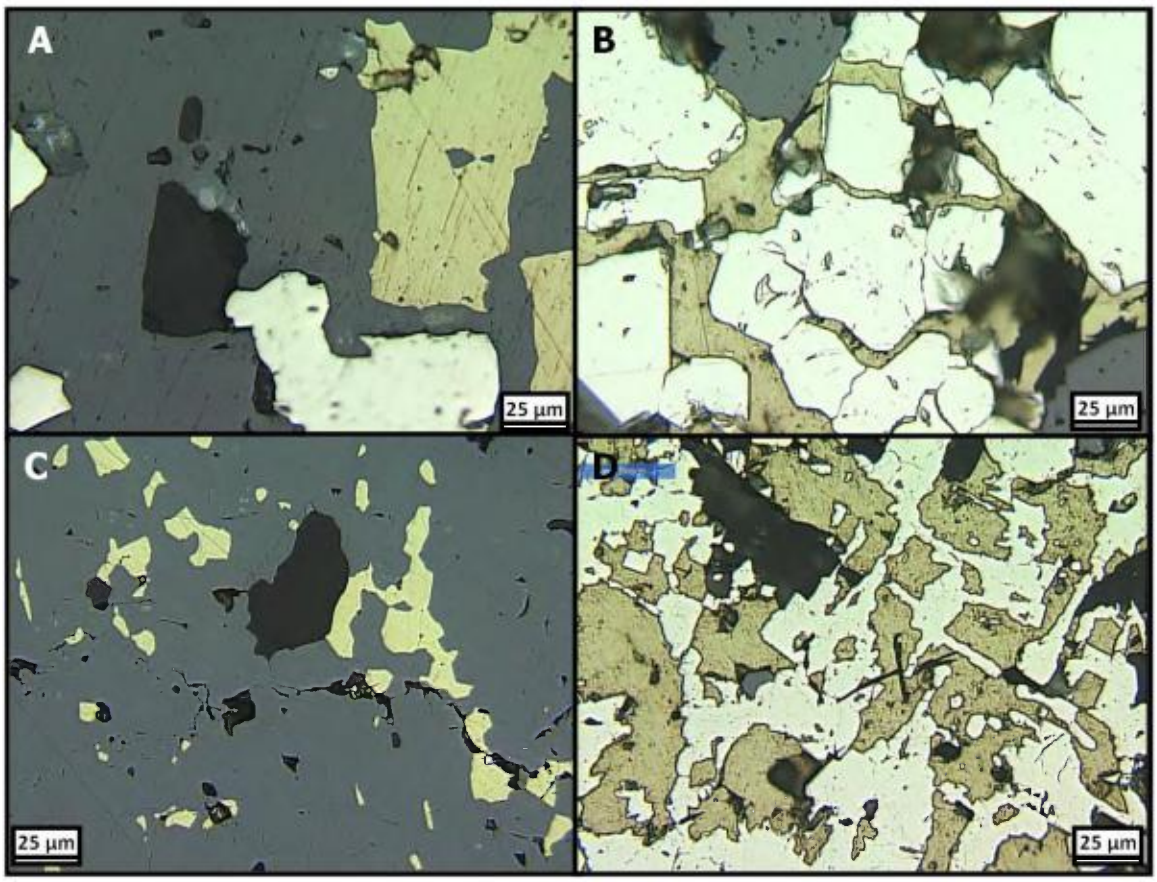


Figure 16-1: PD1 Photomicrographs **A)** PD1-10-24 – 56.5m reflected light – 500X. Relatively simple coarse sphalerite inter-grown with chalcopyrite and pyrite. **B)** PD1-10-24 – 63.65m, reflected light – 500X. More complex, fine grained chalcopyrite inter-grown with pyrite and magnetite. **C)** PD1-10-20 – 32.55m reflected light – 500X. Fine, complex chalcopyrite inclusions in sphalerite. **D)** PD1-10-26 – 36.6m reflected light – 500X. Complex chalcopyrite – pyrite intergrowths. (Courtesy of G. Di Prisco – reproduced with permission)

17 MINERAL RESOURCE ESTIMATES

The following data and process description relating to the mineral resource calculation for the PD1 deposit was supplied to Donner by Xstrata Zinc. Gilled Roy and Patrick Carr are the Qualified Persons for Xstrata Zinc who prepared this technical data in its original form.

The estimation of mineral resources is based on two data sets as follows:

1. **2010 Xstrata Zinc data set**: Drill data from the 2010 program focused on the portion of the deposit between surface and 100 metre vertical depth level. This drilling was conducted:

    a. to verify assay results from the historical drilling,

    b. to verify the geometry of mineralization,

c. to acquire density measurements and metallurgical samples from sulphide mineralization, and

d. to provide sufficient drill intercept spacing that, when combined with historical drillhole information, will provide the basis for a measured resource calculation with drill intercept spacing in the order of 25 metres.

2. **Historical drilling data set:** encompasses all drilling conducted on the deposit between 1973 and 1977.

17.1 Resource Model

A model was constructed by Xstrata Zinc in Gemcom, based on an initial hard boundary, wire frame constructed around massive and semi-massive sulphide mineralization as interpreted by hole to hole geological interpretation on vertical drill sections. A cut-off of (2*Cu + Zn) greater than 3 % was used to further constrain the model into a soft boundary, wire frame model. This was constructed by hole to hole interpretation of groupings of assays that exceeded the cut-off parameters in 3D space within the constraints of the massive and semi-massive solid. Two sub-parallel zones, encompassed within the massive and semi-massive sulphide unit were defined. These are separated by a below cut-off sulphides except in the uppermost area of the deposit where the two lenses coalesce. A block model resource calculation was constructed on the wire frame model of the two sub parallel zones. Assays incorporated in the model were taken exclusively from drillholes. Both set of drill data (2010 drilling and historical drilling) were included in the model. Variography was not applied to the model.

The grade and tonnage for the deposit were estimated by interpolating grade and specific gravity values into 2 by 2 metre blocks using ±2 metre-long composites of assay data weighted by the inverse of the distance squared (ID2) weighting method. Each block was populated on the basis of at least nine values from a minimum three holes and no more than three values coming from each hole. The blocks were summed into 100 metre benches. The deposit was divided into two sectors for the calculation as follows:

3. the portion above 100 m vertical depth which was is comprised of both 2010 and historical drill data with a combined average drill spacing of approximately 20 metres, and,

4. the portion below 100 m vertical depth which is comprised solely of historical drillhole data with a drill spacing of approximately 60 metres.

17.2 Resource Calculation

Based on the block model, the following measured and indicated resources are reported for the PD1 deposit.

Table 17-1: PD1 Measured and Indicated Resources.

PD1 Resources							
Category	**Tonnes**	**Zinc %**	**Copper %**	**Silver g/t**	**Gold g/t**	**Specific Gravity**	**Vertical Depth metres**
Measured	596,193	4.34	0.83	19.59	0.12	4.26	25 to 100
Indicated	262,387	4.26	0.91	19.95	NS	4.33	100 to 200
Indicated	528,925	4.25	1.59	21.13	NS	4.30	200 to 300
Indicated	272,211	5.48	1.41	20.27	NS	4.30	300 to 400
Indicated	71,895	6.32	0.77	12.44	NS	4.30	400 to 500
Indicated	5,762	2.64	0.19	8.14	NS	4.30	500 to 515
Total Measured and Indicated Resources	**1,737,373**	**4.55**	**1.16**	**19.88**	-	**4.29**	**25 to 515**

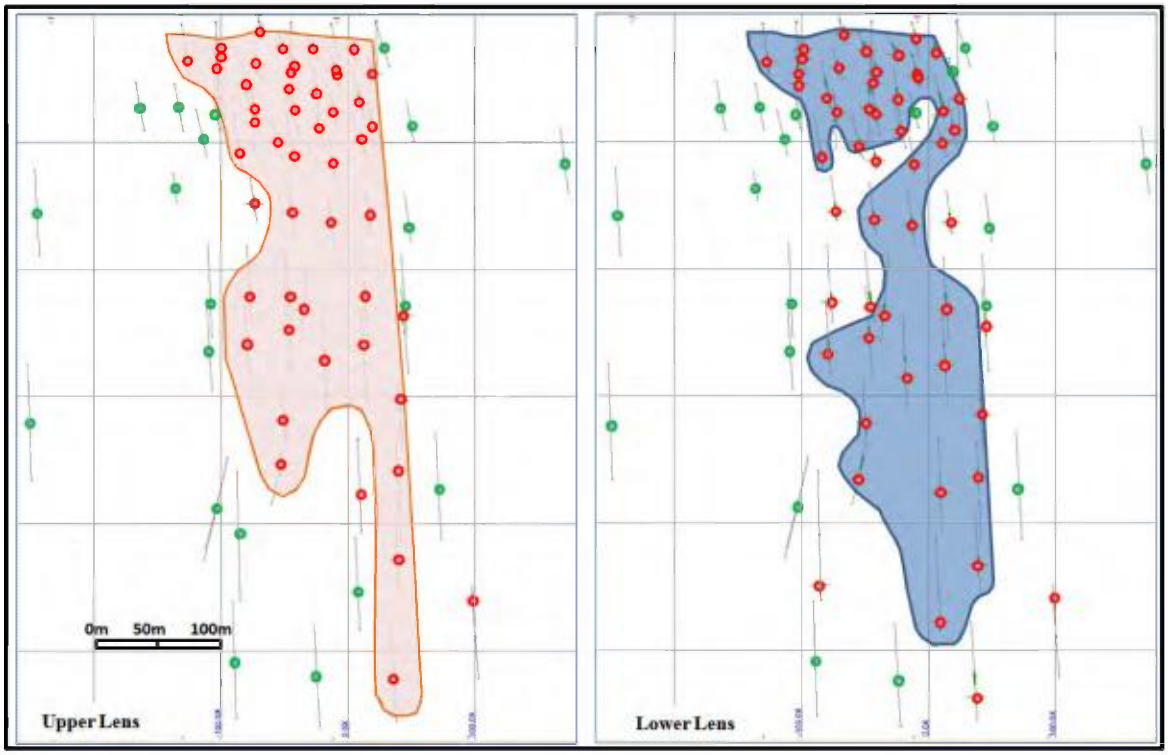
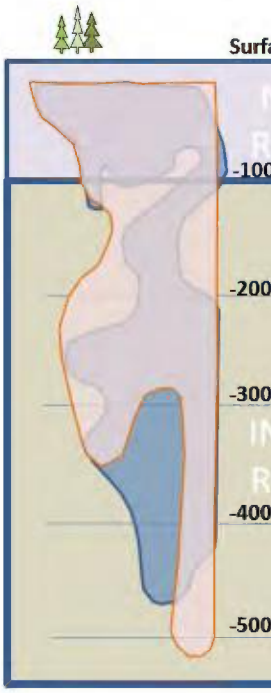
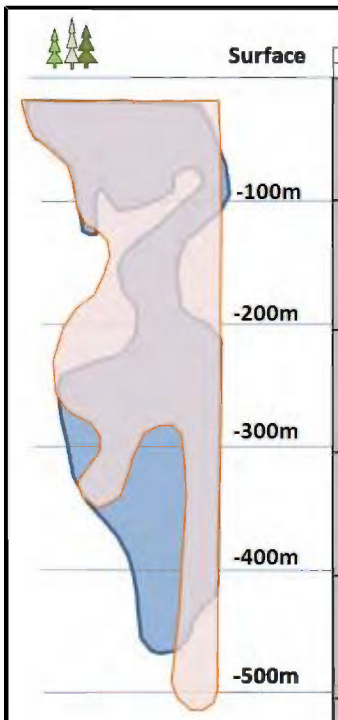


Figure 17-1: PD1 deposit inclined longitudinal section, best fit plane azimuth N297°, Dip -65° - looking north.



	SG T/M^3	Tonnage T X 1000	ZN %	CU %	AG gpt	AU gpt
MESURED RESOURCE	4.3	596.2	4.3	0.8	19.6	0.1
-100m	4.3	262.4	4.3	0.9	19.9	NS
-200m	4.3	528.9	4.2	1.6	21.1	NS
-300m INDICATED RESOURCE	4.3	272.2	5.5	1.4	20.3	NS
-400m	4.3	71.9	6.3	0.8	12.4	NS
-500m	4.3	5.8	2.6	0.2	8.1	NS
Total	4.30	1737.4	4.5	1.2	19.9	NC

Figure 17-2: PD1 Deposit – resources by level.



PLANE	GRADEGROUP	Volume M**3 x 1000	Density T per M**3	Tonnage T x 1000	AU Grade	CU Grade	ZN Grade	AG Grade
PD1_100	ZN 0.01 - 3%	41.721	4.266	177.994	0.14	1.07	2.198	15.39
	ZN 3 - 4%	26.882	4.266	114.679	0.12	0.81	3.440	18.55
	ZN 4 - 6%	45.898	4.254	195.254	0.12	0.71	4.969	22.52
	ZN 6 - 9%	22.078	4.243	93.676	0.11	0.67	7.045	21.92
	ZN 9 - 12%	2.392	4.225	10.104	0.12	0.70	9.923	22.66
	ZN >12%	1.051	4.269	4.486	0.10	0.55	15.301	29.27
	Total	140.021	4.258	596.193	0.12	0.83	4.335	19.59
PD1_200	ZN 0.01 - 3%	7.168	4.336	31.078	0.13	1.09	2.131	20.15
	ZN 3 - 4%	14.330	4.336	62.135	0.11	1.02	3.677	22.01
	ZN 4 - 6%	37.752	4.325	163.259	0.10	0.82	4.798	19.38
	ZN 6 - 9%	1.363	4.339	5.916	0.11	1.19	6.779	12.66
	ZN 9 - 12%	0.000	0.000	0.000	0.00	0.00	0.000	0.00
	ZN >12%	0.000	0.000	0.000	0.00	0.00	0.000	0.00
	Total	60.612	4.329	262.387	0.11	0.91	4.262	19.95
PD1_300	ZN 0.01 - 3%	31.781	4.276	135.908	0.18	2.63	1.632	16.33
	ZN 3 - 4%	12.816	4.288	54.955	0.18	1.68	3.535	24.76
	ZN 4 - 6%	59.806	4.311	257.841	0.14	1.22	4.983	22.57
	ZN 6 - 9%	18.310	4.296	78.658	0.16	0.98	6.754	22.08
	ZN 9 - 12%	0.361	4.329	1.563	0.13	0.24	9.472	26.28
	ZN >12%	0.000	0.000	0.000	0.00	0.00	0.000	0.00
	Total	123.075	4.298	528.925	0.16	1.59	4.248	21.13
PD1_400	ZN 0.01 - 3%	10.822	4.292	46.451	0.04	2.13	1.507	16.09
	ZN 3 - 4%	6.797	4.289	29.149	0.08	1.52	3.540	18.63
	ZN 4 - 6%	19.288	4.290	82.754	0.10	1.25	5.046	22.30
	ZN 6 - 9%	20.989	4.298	90.204	0.02	1.20	7.383	20.89
	ZN 9 - 12%	5.352	4.300	23.013	0.01	1.25	9.888	21.17
	ZN >12%	0.149	4.300	0.640	0.01	1.30	12.590	14.73
	Total	63.397	4.294	272.211	0.05	1.41	5.482	20.27
PD1_500	ZN 0.01 - 3%	8.464	4.300	36.395	0.01	1.22	1.582	15.02
	ZN 3 - 4%	0.806	4.300	3.466	0.01	0.54	3.438	10.16
	ZN 4 - 6%	0.000	0.000	0.000	0.00	0.00	0.000	0.00
	ZN 6 - 9%	0.540	4.300	2.324	0.01	0.15	8.190	7.82
	ZN 9 - 12%	2.394	4.300	10.293	0.01	0.56	10.370	14.51
	ZN >12%	4.516	4.300	19.417	0.01	0.17	13.325	7.49
	Total	16.720	4.300	71.895	0.01	0.77	6.315	12.44
PD1_600	ZN 0.01 - 3%	1.340	4.300	5.762	0.01	0.19	2.642	8.14
	Total	1.340	4.300	5.762	0.01	0.19	2.642	8.14
Total		405.165	4.288	1,737.373	0.11	1.16	4.554	19.88

Figure 17-3: PD1 Mineral resource by level and grade range.

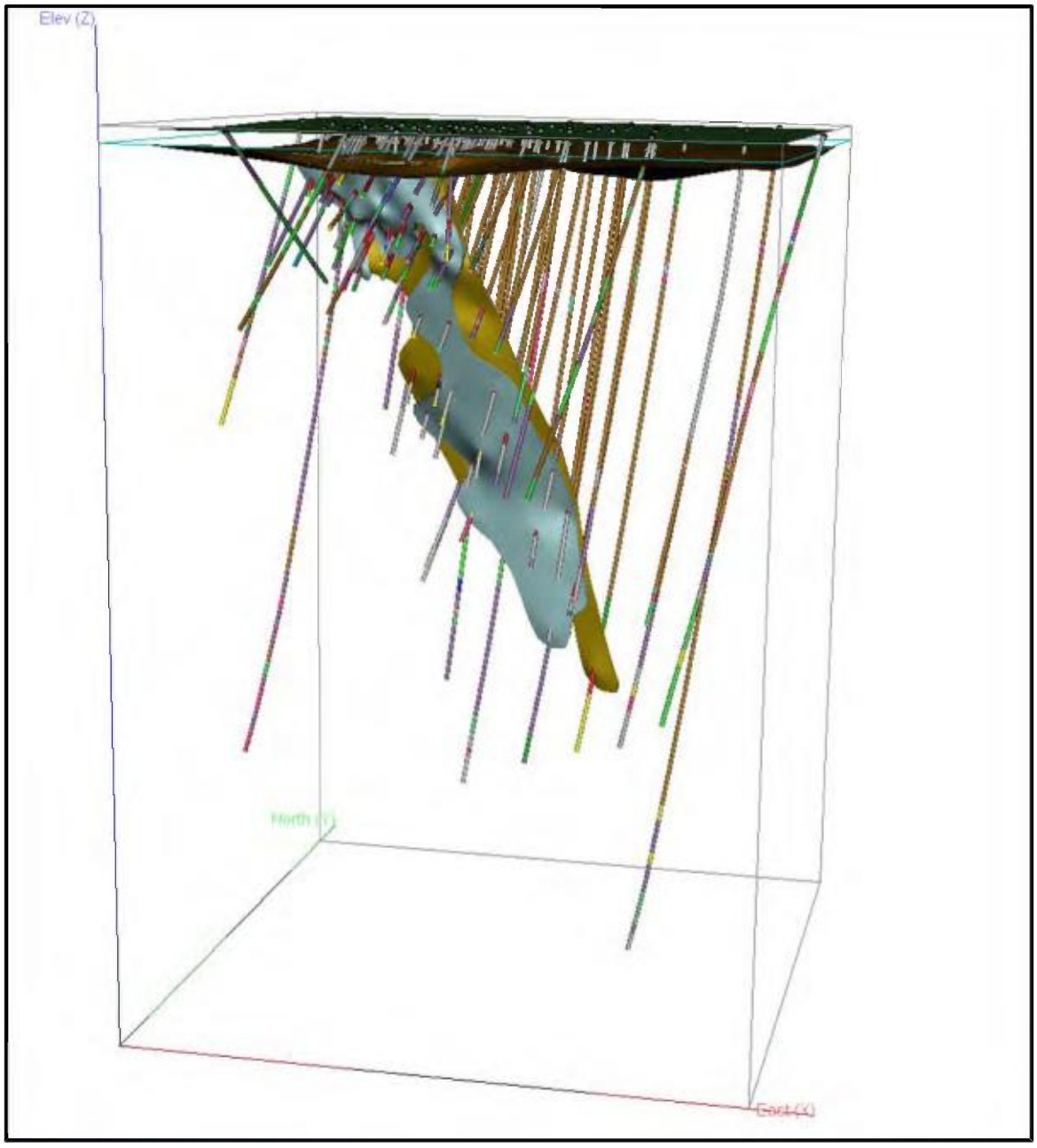


Figure 17-4: PD1 deposit 3D diagram show lower and upper lenses – looking north.

17.3 Measured Resource

A measured mineral resource for the PD1 deposit was calculated between 25 and 100 metres vertical depth and is based on drillhole spacing of approximately 20 metres for both mineralized and confining drillholes. This includes drilling from 1973-1977, 1984, and 2010. The measured resource consists of data from 32 drillholes within mineralization and 7 confining drillholes. Assays from historical drilling were taken at face value however an average specific gravity of 4.3 was applied to historical assay intervals on the basis of the average specific gravity of the 2010 drilling for massive and semi-massive sulphides.

17.4 Indicated Resource

An indicated mineral resource for the PD1 deposit was calculated between 100 and 515 metres vertical depth and is based on drillhole spacing of approximately 60 metres for both mineralized and confining drillholes. The indicated resource is based solely on historical drill data. The indicated resource consists of data from 19 drillholes within mineralization with 17 confining drillholes. Assays included in the indicated resource were taken at face value from historical drill logs however no specific gravity data measured. An average specific gravity of 4.3 was applied to assay intervals on the basis of the average specific gravity calculated from the 2010 measurements of massive and semi-massive sulphides in the upper portion of the deposit.

17.5 Characteristics of the resource model

The resource model is depicted in the following figures on the basis of grade and specific gravity distributions in each of the two lenses. Zinc, copper, silver and specific gravity are plotted and clearly show that the upper lens contains higher zinc values relative to the lower lens which has higher copper concentrations. Specific gravity data is plotted for both lenses, however only the portion above 100 metres is based on measured data, while the remained is taken from the average of the measured data for massive and semi massive sulphides.

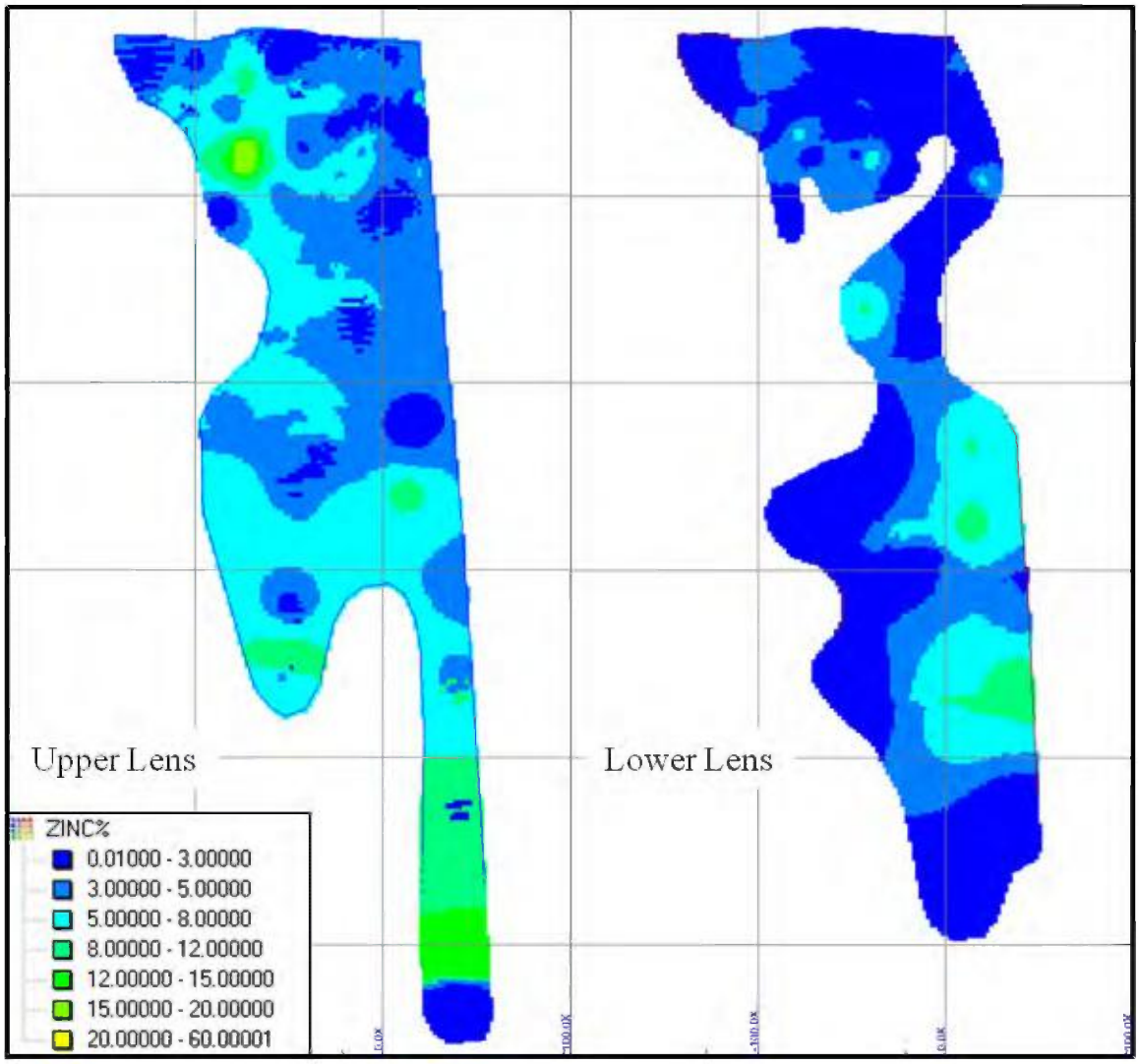


Figure 17-5: PD1 Block model – zinc distribution.

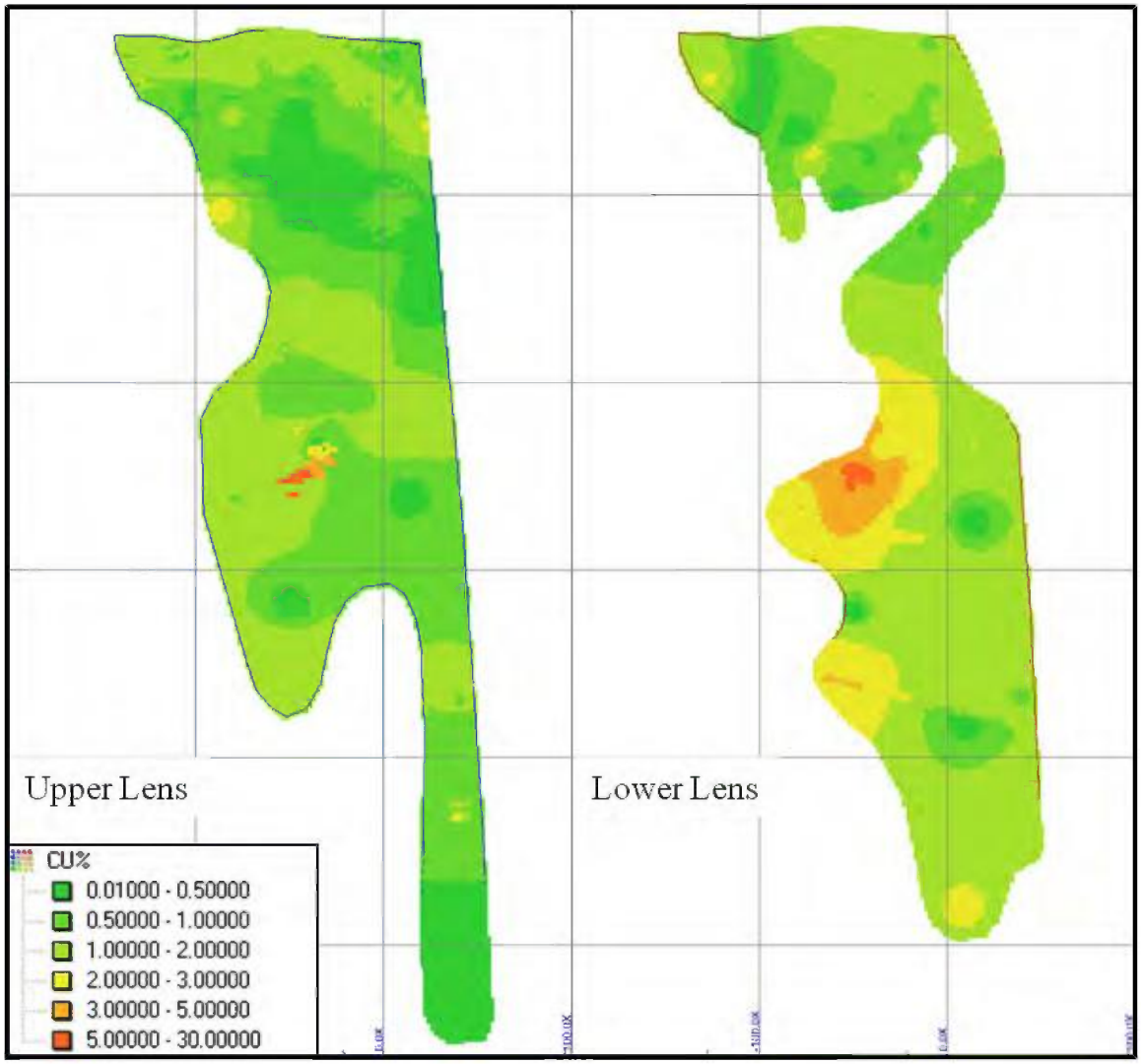


Figure 17-6: PD1 Block model- copper distribution.

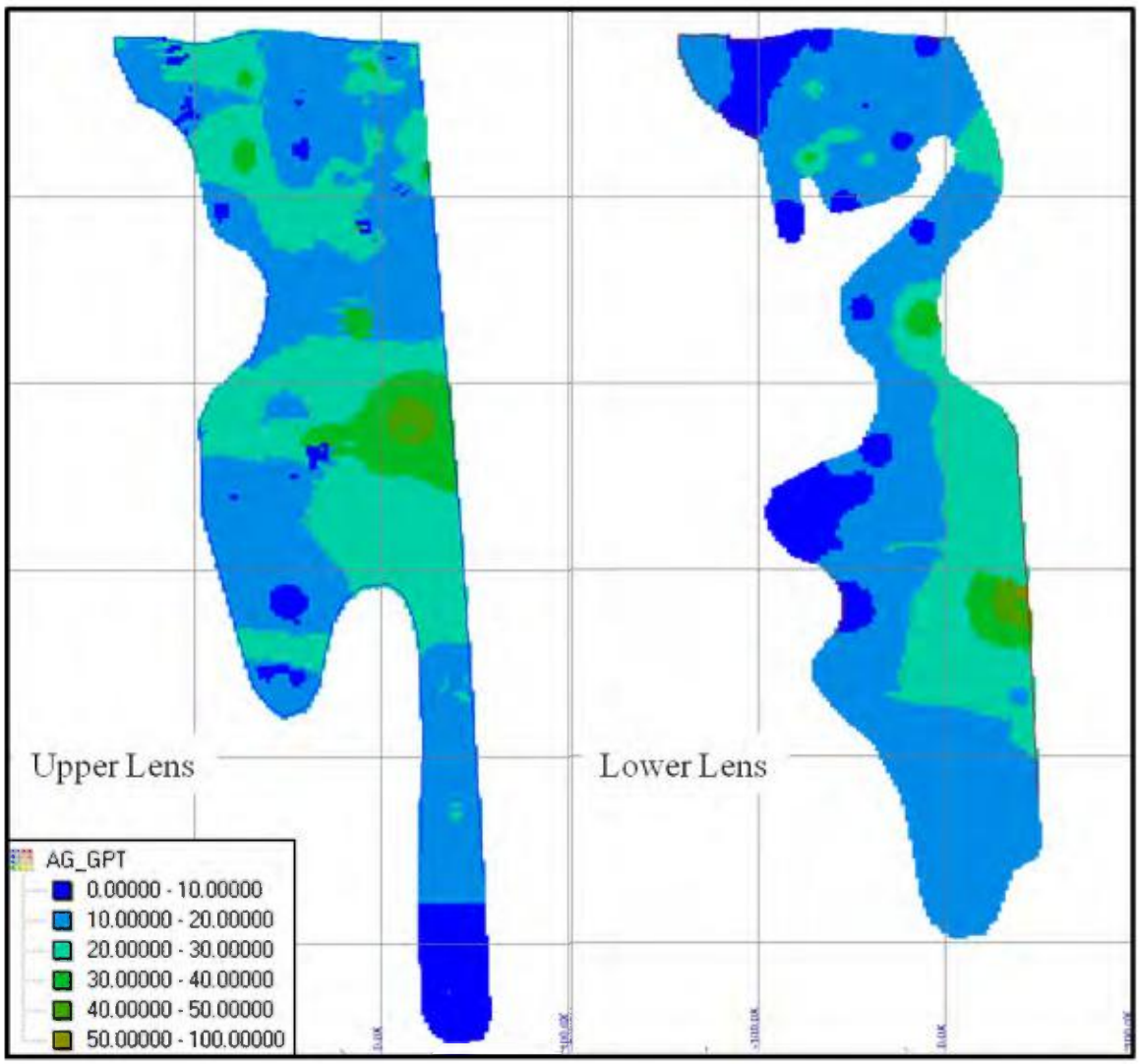


Figure 17-7: PD1 Block model – silver distribution.

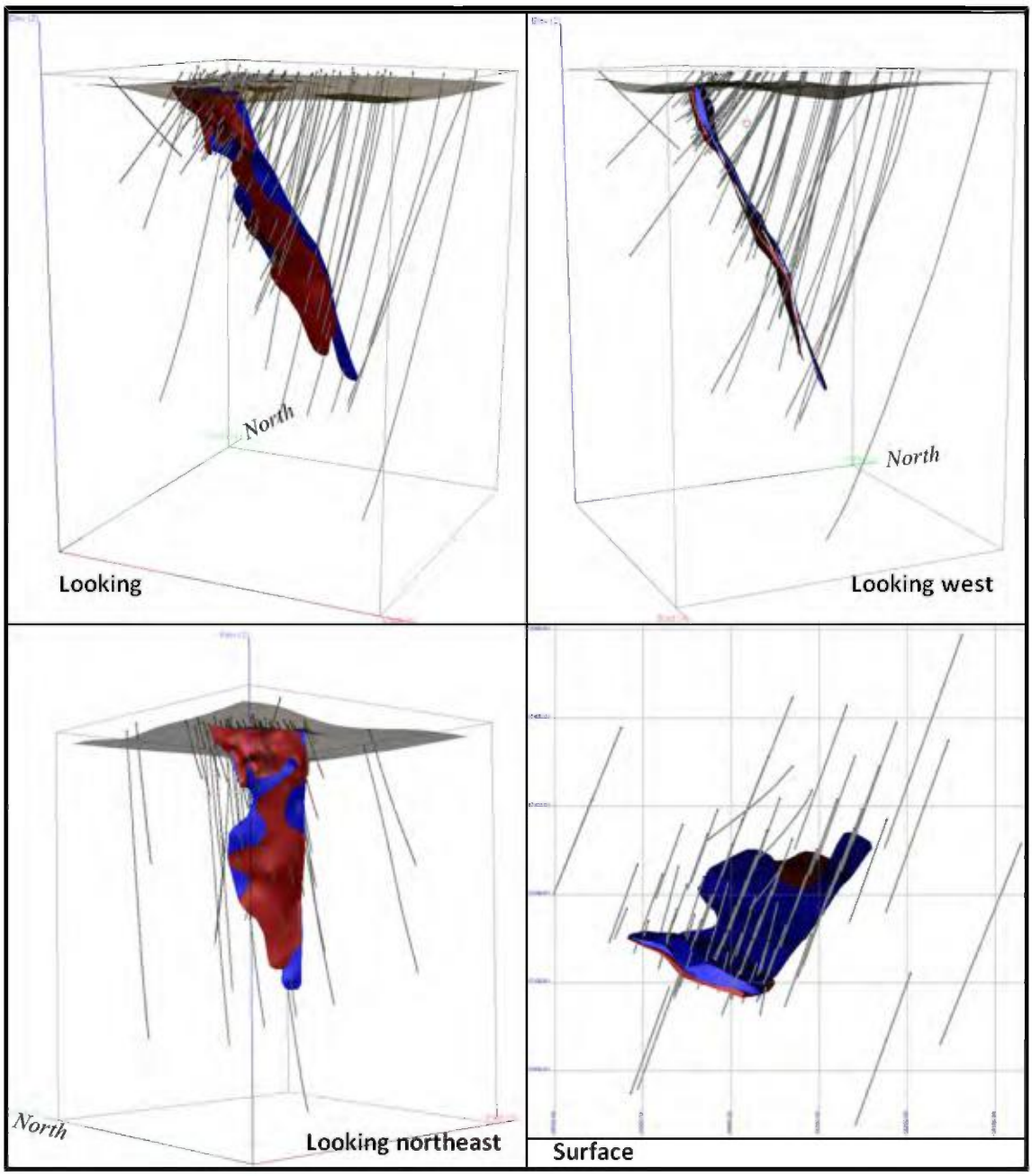


Figure 17-8: PD1 deposit- 3D visualization

17.6 Validation

Then block model was subjected to a Peer review by Xstrata Zinc's Perseverance Mine Geologist.

17.7 Relevant factors that may impact the PD1 resource estimate

At the time of writing, there are no know environmental, permitting, socio-economic, marketing or other factors that may materially affect the resources reported herein. The deposit can potentially benefit from proximity to the operating Matagami Mill in the context of incremental production to the Bracemac-McLeod deposit which is scheduled for production in January of 2013.

Metallurgical characteristics of the mineralization need further study as the sulphides that comprise the reported resources exhibit features that differ somewhat from typical Matagami sulphides. Predictive metallurgical studies identify a finer overall grain size of sulphide species with somewhat more complex grain boundaries. These characteristics could result in reduced recoveries than is typical for Matagami ores.

The reliance of the calculation of the indicated resource on only historical drillholes with very limited azimuth measurements increases the probability the indicated resource may vary, should additional survey data reposition the deeper holes in the deposit. It is expected however that this potential variance would be within tolerance commonly expected for an indicated resource under NI 43-101 conditions.

18 OTHER RELEVANT DATA AND INFORMATION

The PD1 deposit is within the historical Mattagami Mining Camp which includes an active mine (Perseverance), a mill (Matagami Mill) and tailings facility. All are owned and operated by Xstrata Zinc. The Bracemac-McLeod mine us currently being developed under the MLOJVA with production expected in early 2013 (Coté & Lavigne, 2010). Donner Metals holds a right to acquire an initial 50% interests in all of Xstrata's mineral holdings, excluding the Perseverance Mine and immediate area. This interest is subject to a right by Xstrata to increase its interest to 65%. When Xstrata completes the feasibility study in progress on PD1, it will increase its interest in the West Camp joint venture, including the PD1 deposit, to 65%.

At the time of writing, Donner has not exercised its option to acquire its interest; however it has stated that it plans to meet the remaining requirements by May 31, 2011. Also at the time of writing, there are no known environmental, permitting, legal, title, taxation, socio-economic, marketing, political or other relevant issues that may materially affect resources at PD1.

19 INTERPRETATION AND CONCLUSIONS

The results of the definition program conducted at the PD1 deposit in 2010 validated historical drill results and provided a drillhole sample density sufficient to form the basis of a measure resource estimate for the portion of the deposit 100 metres vertical depth.

The utilization of historical data in a NI43-101 compliant resource estimate is supported by a significant amount of new drill information that corroborated historical results in the upper portion of the PD1 deposit. The historical data was generated by Phelps Dodge Corporation of Canada, Orchan Mines Limited and Noranda Mines Limited, all respected mining companies and

project operators. As such there is reasonable expectation the historical data can be trusted with reasonable expected variation due to limitations of the assaying process utilized at the time and the lack of QA/QC protocols.

The new data acquired during 2010 provides sufficient grounds to apply an average specific gravity to all historical intersections of massive and semi-massive sulphides.

An area of caution is identified with respect to the lack of down-hole deviation measurements (azimuth measurements in particular) in the historical drilling and the potential impact of magnetic rocks on compass based measurements systems such as Tropari (historical) and Reflex EZShot. Provided proper positioning of the drill collars, this impact is expected to be small within the first 250 metres of the deposit.

It is the author's opinion that the drillhole data and relevant spacing is sufficient to support the confidence levels calculated by Xstrata Zinc for the PD1 deposit with respect to the measured resource. This also holds true for the indicated resource, with the added caution that the pierce point locations of the deep holes in the deposit are likely to change should addition down-hole survey data be acquired.

20 RECOMMENDATIONS

On the basis of the resources calculated for the PD1 deposit and the relative location of the deposit with respect to the operating Matagami Mill, the following recommendations are made. These recommendations are made under the assumption that the agreement between Donner and Xstrata will be completed and in context with production scheduled from the Bracemac-McLeod deposit (Coté & Lavigne, 2010). The PD1 deposit can benefit from proximity to the Matagami Mill and the possible availability of mill capacity in excess of that required for anticipated production from Bracemac-McLeod.

It is recommended that a feasibility study be conducted on the measured resources above 100 metres vertical depth. This study should assess the potential exploitation of this portion of the deposit by open pit in the context of incremental feed to the Matagami Mill as supplement to production from the Bracemac-McLeod mine commencing in 2013. The components of the study should include an engineering study (open pit and upgrading of road access to the site from the Matagami Mill), metallurgical bench testing and relevant environmental studies (**Table 20-1**). Financial analysis should be conducted on a fully costed project basis relative to a joint venture between Xstrata and Donner at 65%/35% interests respectively.

Table 20-1: Estimated budget for a feasibility study on the open pit exploitation of the PD1 Deposit above 100 metres vertical depth.

	Description	Total	Total
Feasibility Study Open Pit (measured resources)	Engineering Study	$300,000	
	Metallurgical Study	$150,000	
	Environmental Study	$100,000	
		$550,000	$550,000
Under Ground Scoping Study	Scoping Study	$50,000	
		$50,000	$50,000
		Subtotal:	**$600,000**
Contingency	25%		$150,000
	Total:		**$750,000**

It is recommended that a scoping study be conducted on the indicated resources identified below 100 metres vertical depth in the context of underground exploitation of the remainder of the PD1 resource following production from an open pit contemplated in the proposal for the feasibility study above. In this context, potential underground development would benefit from the costs already incurred in the development of the open pit. As a component of this study, verification of the historical drilling below 100 metres is recommended along with additional sampling by wedge cuts off of historical holes or drilling of additional new holes. Assessment of metallurgy is also recommended on new samples taken from the deposit.

Due to the reliance on historical holes without adequate survey data, it is recommended that gyroscopic surveys be used by re-entering available historical drillholes that were drilled below 200 metres vertical depth.

21 WORK PROGRAM

A total of 24 diamond drillholes were completed in 2010 by Xstrata Zinc and Donner Metals under the MLOJVA on the PD1 deposit. All drilling occurred on Mineral Title number 4609131. The details of this program are contained within the above report and drill sections are contained in the attached appendices.

Table 2: Drillhole Coordinates

		Matagami Mine Grid Coordinates			UTM NAD83 zone 18			
HOLE-ID	LENGTH (Metres)	LOCATION X	LOCATION Y	LOCATION Z	UTM X	UTM Y	UTM Z	TIT_NO
PD1-10-18	111	-18418.4	17130.1	3009.43	273725.72	5516751.2	3009.43	460913
PD1-10-19	106.7	-18360.5	17096.2	3009.28	273782.37	5516715.2	3009.28	460913
PD1-10-20	92	-18471.7	17155.5	3009.03	273673.37	5516778.5	3009.03	460913
PD1-10-22	78	-18390.48	17115.07	3008.05	273753.09	5516735.1	3008.05	460913
PD1-10-23	60	-18444.63	17135.04	3007.65	273699.69	5516757	3007.65	460913
PD1-10-24	84	-18463.33	17175.27	3008.24	273682.45	5516797.9	3008.24	460913
PD1-10-25	78	-18465.35	17170.26	3008.1	273680.25	5516793	3008.1	460913
PD1-10-26	69	-18370.39	17123.24	3008.78	273773.46	5516742.6	3008.78	460913
PD1-10-27	105	-18404.89	17159.6	3007.94	273740.29	5516780.2	3007.94	460913
PD1-10-28	102	-18376.12	17149.34	3007.81	273768.67	5516768.9	3007.81	460913
PD1-10-29	147	-18418.55	17202.36	3008.17	273728.18	5516823.4	3008.17	460913
PD1-10-30	144	-18460.11	17231.38	3008.34	273687.69	5516853.9	3008.34	460913
PD1-10-31	162	-18430.9	17220.56	3008.15	273716.49	5516842	3008.15	460913
PD1-10-32	156	-18403.01	17215.15	3008.32	273744.17	5516835.6	3008.32	460913
PD1-10-33	159	-18372.12	17199.19	3008.2	273774.46	5516818.5	3008.2	460913
PD1-10-34	165	-18347.07	17191.74	3008.2	273799.23	5516810.2	3008.2	460913
PD1-10-35	102	-18441.61	17176.94	3007.95	273704.22	5516798.8	3007.95	460913
PD1-10-36	111	-18387.33	17157.16	3007.91	273757.75	5516777.1	3007.91	460913
PD1-10-37	111	-18357.55	17148.16	3007.8	273787.19	5516767	3007.8	460913
PD1-10-38	63	-18494.28	17170	3008.23	273651.33	5516793.8	3008.23	460913
PD1-10-39	75	-18423.45	17144.21	3007.99	273721.19	5516765.4	3007.99	460913
PD1-10-40	66	-18403.3	17135.49	3007.66	273741.01	5516756	3007.66	460913
PD1-10-41	60	-18360.36	17096.91	3007.79	273782.54	5516715.9	3007.79	460913
PD1-10-42	66	-18518.4	17184.2	3007.94	273627.74	5516808.8	3007.94	460913
Total	**2472.7**							

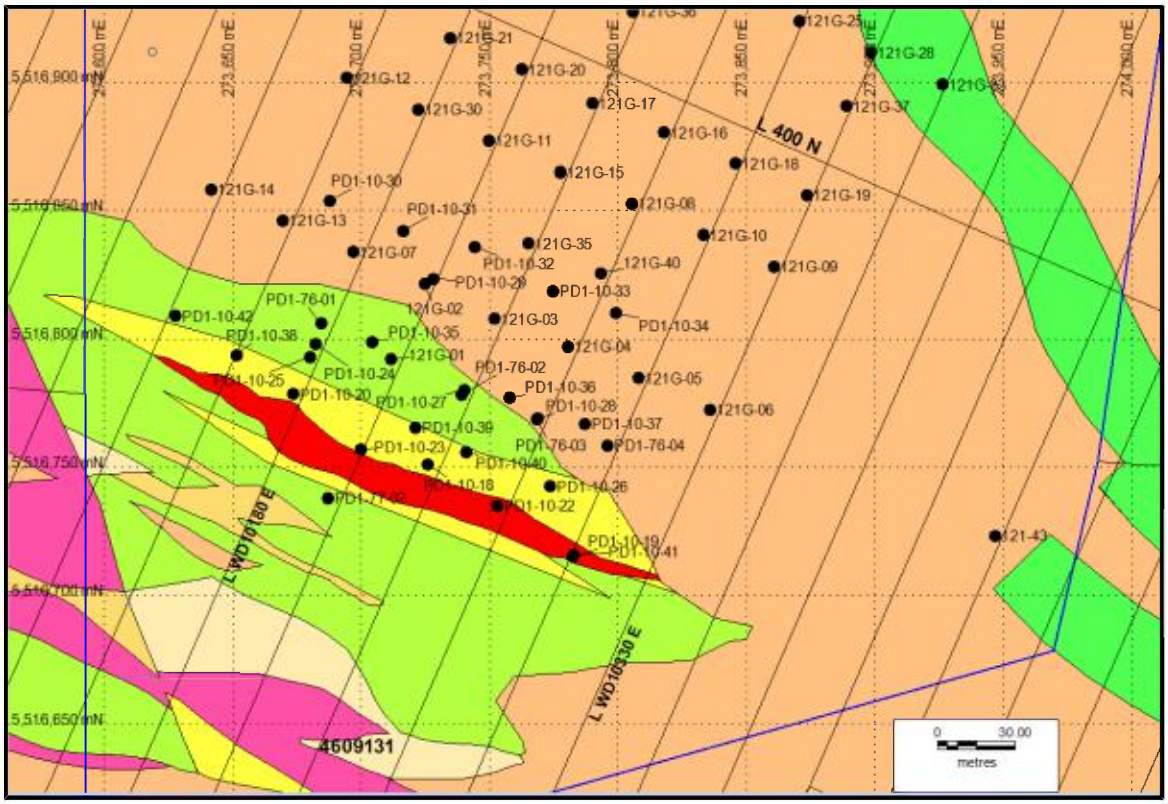
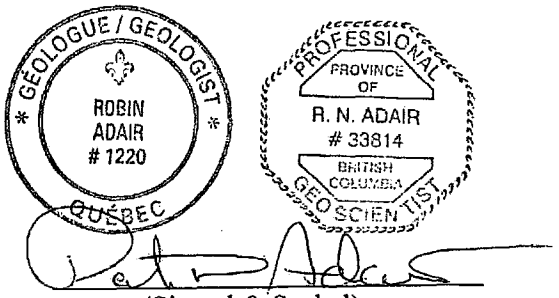


Figure 21-1 Location Map, 2010 drilling

22 SIGNATURE PAGE

This report titled "**Report on the Definition Drill Program and Mineral Resource Calculation for the PD1 Deposit, Matagami Project, Québec 2010-2011.**" prepared for Xstrata Canada Corporation – Xstrata Zinc Canada Division and Donner Metals Ltd and dated February 25, 2011 was prepared and signed by the following author:



Dated at Maple Ridge, British Columbia.
February 25, 2011

(Signed & Sealed)
Robin N. Adair (P.Geol.)

REÇU AU MRNF
16 JAN. 2013
DIRECTION DES TITRES MINIERS

126812

23 CERTIFICATE AND CONSENT OF THE AUTHOR

I, Robin Adair (P. Geol.) do hereby certify that:
1. I am President of:

Zorayda Consulting Ltd.
12390-206th Street,
Maple Ridge, British Columbia,
V2X0M6.

2. I graduated with a Bachelor of Science degree in Geology (B.Sc.) from the University of Alberta in 1983. In addition, I obtained a Master of Science degree (M.Sc.) in geology from the University of Alberta in 1986.

3. I am a member of the Association of Professional Geologist of Ontario (APGO #0113), l' Ordre des géologues du Québec (OGQ #1220) and Professional Engineers and Geoscientists of British Columbia (APEGBC #33814).

4. I have worked as a geologist for a total of 27 years in mineral exploration and advanced projects with significant experience in volcanogenic sulphides deposits and related resource estimation. I have published in peer-reviewed journals on VMS deposits.

5. 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 to be a "qualified person" for the purposes of NI 43-101.

6. I am responsible for the preparation of the technical report titled "**Technical Report on the Resource Calculation for the PD1 Deposit, Matagami Project, Québec**", dated February 25, 2011 (the "Technical Report") and "**Report on the Definition Drill Program and Mineral Resource Calculation for the PD1 Deposit, Matagami Project, Québec 2010-2011**." Dated December 14, 2012, relating to the Matagami Option and Joint Venture Property. I have visited the Matagami Property on an approximate quarterly basis since 2006 with the last visit conducted on October, 2012. Donner Metals Ltd. and Xstrata Canada Corporation are parties to the Matagami Lake Option and Joint Venture Agreement that governs exploration and development on the Matagami Project. In the preparation of the this report, I am relying on technical data supplied to Donner Metals Ltd. by Xstrata Canada Corporation – Xstrata Zinc Canada Division who qualifies as a "producing issuer" under Section 5.3(3) of NI 43-101 and whose Qualified Persons prepared, or supervised the preparation of, the technical data included in the Technical Report. Xstrata's qualified persons responsible for the technical information supplied to Donner Metals Ltd. are Gilles Roy and Patrick Carr.

7. To the best of my ability the technical data provided in the Technical Report accurately represents the information provided to Donner Metals Ltd. by Xstrata Canada Corporation – Xstrata Zinc Canada Division.

8. I have had prior involvement with the property that is the subject of the Technical Report through prior employment with Noranda Inc. and Falconbridge Limited who owned the property and who were predecessors to Xstrata Canada Corporation. I did not conduct work on the property during that time.

9. 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.

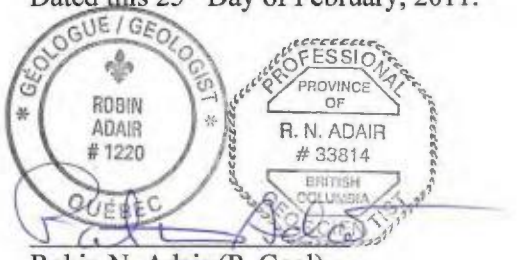
10. I am **not** independent of the issuer applying all of the tests in section 1.5 of National Instrument 43-101 and act in the role of Vice President of Exploration and Qualified Person for Donner Metals Ltd. Under Section 5.3(3) of NI43-101 "a technical report required to be filed by an issuer that is or has contracted to become a joint venture participant, concerning a property which is or will be the subject of the joint venture's activities, is not required to be prepared by or under the supervision of an independent qualified person if the qualified person preparing or supervising the preparation of the report relies on scientific and technical information prepared by or under the supervision of a qualified person that is an employee or consultant of a producing issuer that is a participant in the joint venture". In this capacity, I am relying on the technical information provided by Xstrata Canada Corporation – Xstrata Zinc Canada Division who qualifies as a "producing issuer" under Section 5.3(3) of NI 43-101 and whose Qualified Persons prepared, or supervised the preparation of, the technical data provided in this Technical Report.

11. I hold 21,000 shares in Donner Metals Ltd.

12. I have read National Instrument 43-101 and Form 43-101F1, and the Technical Report upon which this report is based has been prepared in compliance with that instrument and form.

13. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them for regulatory purposes, including electronic publication in the public company files on their websites accessible by the public, of the Technical Report.

Dated this 25th Day of February, 2011.



Robin N. Adair (P. Geol)
Zorayda Consulting Ltd.

24 CERTIFICATES AND CONSENTS OF QUALIFIED PERSONS FOR XSTRATA CANADA CORPORATION – XSTRATA ZINC CANADA DIVISION

Certificates of Qualified Persons for Xstrata Zinc Canada Division ("Xstrata Zinc") who prepared, or supervised the preparation of, the technical data supplied to Donner Metals Ltd. for this Technical Report.

Authorization and Consents of Qualified Persons for Xstrata Zinc related to the public filing of the technical data provided to Donner Metals Ltd. for use in the Technical Report and to extracts from, or summaries of, the technical data used in the Technical Report.

Certificates of Qualified Persons

Report Description

This certification applies to *Technical report on the resource calculation for the PD1 Deposit, Matagami project, Quebec prepared for Donner Metals Ltd.*, and dated 25 February 2011 ("Report")

Statement

I, Gilles Roy, géo., do hereby certify that:

1. I am geologist and a full time employee of Xstrata Zinc Canada. My office address is 500 boul Industriel, Matagami, Québec, J0Y 2A0

2. I graduated with a degree in geology from the Université du Québec a Montréal in 1989.

3. I am a member of the Ordre des Géologues du Québec (OGQ # 781), and a member of the Association of Professional Engineers and Geoscientists of New Brunswick (APGGNB # M5563)

4. I have worked as a geologist for a total of twenty (20) years since my graduation from university.

5. I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI43-101") 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 to be a "qualified person" for the purposes of NI 43-101.

6. I have read and understood the requirements of the 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves ("2004 JORC Code").

7. I am a Competent Person as defined by the 2004 JORC Code, having five years experience which is relevant to the style of mineralisation and type of deposit described in the Report, and to the activity for which I am accepting responsibility.

8. I am a Member off a 'Recognised Overseas Professional Organisation' ("ROPO") included in a list promulgated by ASX from time to time.

9. Pursuant to Section 5.3(3) of National Instrument 43-101, I am a Qualified Person for Xstrata Canada Corporation - Xstrata Zinc Canada Division, a "producing issuer" under the Instrument, and I prepared, or supervised the preparation of, the technical data supplied to Donner Metals Ltd. in relation to sections 11, 12,13, 14 and 17 of the Technical Report. I have read the Technical Report and confirm that this report accurately represents the technical information provided to Donner Metals Ltd. which supports the press release disclosure by Donner Metals Ltd dated January 14, 2011.

I confirm that I have read this technical report, and I consent to his public filing.

GÉOLOGUE / GEOLOGIST
GILLES ROY #781
QUÉBEC

Gilles Roy, géo.
Ordre des Géologues du Québec
OGQ # 781
Matagami (Québec) 25 February 2011

REÇU AU MRNF
16 JAN. 2013
DIRECTION DES TITRES MINIERS

1268012

Certificates of Qualified Persons

I, Patrick Murphy Carr, am an exploration project geologist for Xstrata Zinc Canada, 500, boulevard Industriel, Matagami (Québec). This certification applies to the *Technical report on the resource calculation for the PD1 Deposit, Matagami project, Québec* prepared for Donner Metals, Ltd., and dated 25 February 2011.

I certify that I hold a B.S. in geological sciences (1996), an M.Eng. in geological sciences (1997), and a Ph.D. (2004) in geological sciences, all from Cornell University, Ithaca, New York. My dissertation was titled *Physical and chemical consequences of the cooling of sills by pore water convection will application to massive sulfide deposits*, and I have published in peer-reviewed journals on the Matagami district. I have been employed as an exploration geologist since 2006.

My most recent personal inspection of the Phelps Dodge Deposit property was the supervising and logging of the most recent round of definition drilling of the deposit, which took place from 30 September to 19 October 2010.

I am responsible or partially responsible for the technical data supplied to Donner Metals, Ltd., in relation to sections 11, 12, 14, and 17 of the named report. I have read the report and confirm that it accurately represents the technical information provided.

I own less than 0.01% of Donner Metals, Ltd., the issuer of this report.

I have supervised definition drilling on this property and exploration drilling in the surrounding properties over the past two years and filed appropriate reports with the ministère des Ressources naturelles et Faune of Quebec on behalf of Xstrata Zinc Canada.

I have read National Instrument 43-101 and to the best of my knowledge, information, and belief this report has been prepared in compliance with the Instrument.

As of the date of the certificate, to the best of my knowledge, information, and belief, this technical report contains all scientific and technical information that is required to be disclosed to make the report not misleading.

I consent to the public filling of this technical report.

Patrick Murphy Carr, Ph.D., géo.
OGQ permit № 1258
Matagami (Québec), 25 February 2011

REÇU AU MRNF
16 JAN. 2013
DIRECTION DES TITRES MINIERS

1268012

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Appendices to the Technical Report on the Resource Calculation for the PD1 Deposit, Matagami Québec.

Appendix I: Drillhole collar locations

		Matagami Mine Grid Coordinates			UTM NAD83 zone 18		
HOLE-ID	LENGTH (Metres)	LOCATION X	LOCATION Y	LOCATION Z	UTM X	UTM Y	UTM Z
PD1-07-13	238	-18948.35	17393.56	3023	273205.58	5517033.5	3023
PD1-07-14	500.75	-17647.54	16834.71	3002	274485.47	5516428.3	3002
PD1-09-15	400	-19500.58	17290.16	3000	272649.99	5516950	3000
PD1-09-16	201	-17136.25	16766.78	3000	274993.99	5516342	3000
PD1-09-17	327.5	-19518.39	18620.38	3000	272679.99	5518280	3000
PD1-10-18	111	-18418.4	17130.1	3009.43	273725.72	5516751.2	3009.43
PD1-10-19	106.7	-18360.5	17096.2	3009.28	273782.37	5516715.2	3009.28
PD1-10-20	92	-18471.7	17155.5	3009.03	273673.37	5516778.5	3009.03
PD1-10-21	457	-19174	16981	3014	272965.26	5516629.3	3014
PD1-10-22	78	-18390.48	17115.07	3008.05	273753.09	5516735.1	3008.05
PD1-10-23	60	-18444.63	17135.04	3007.65	273699.69	5516757	3007.65
PD1-10-24	84	-18463.33	17175.27	3008.24	273682.45	5516797.9	3008.24
PD1-10-25	78	-18465.35	17170.26	3008.1	273680.25	5516793	3008.1
PD1-10-26	69	-18370.39	17123.24	3008.78	273773.46	5516742.6	3008.78
PD1-10-27	105	-18404.89	17159.6	3007.94	273740.29	5516780.2	3007.94
PD1-10-28	102	-18376.12	17149.34	3007.81	273768.67	5516768.9	3007.81
PD1-10-29	147	-18418.55	17202.36	3008.17	273728.18	5516823.4	3008.17
PD1-10-30	144	-18460.11	17231.38	3008.34	273687.69	5516853.9	3008.34
PD1-10-31	162	-18430.9	17220.56	3008.15	273716.49	5516842	3008.15
PD1-10-32	156	-18403.01	17215.15	3008.32	273744.17	5516835.6	3008.32
PD1-10-33	159	-18372.12	17199.19	3008.2	273774.46	5516818.5	3008.2
PD1-10-34	165	-18347.07	17191.74	3008.2	273799.23	5516810.2	3008.2
PD1-10-35	102	-18441.61	17176.94	3007.95	273704.22	5516798.8	3007.95
PD1-10-36	111	-18387.33	17157.16	3007.91	273757.75	5516777.1	3007.91
PD1-10-37	111	-18357.55	17148.16	3007.8	273787.19	5516767	3007.8
PD1-10-38	63	-18494.28	17170	3008.23	273651.33	5516793.8	3008.23
PD1-10-39	75	-18423.45	17144.21	3007.99	273721.19	5516765.4	3007.99
PD1-10-40	66	-18403.3	17135.49	3007.66	273741.01	5516756	3007.66
PD1-10-41	60	-18360.36	17096.91	3007.79	273782.54	5516715.9	3007.79
PD1-10-42	66	-18518.4	17184.2	3007.94	273627.74	5516808.8	3007.94
PD1-76-01	85.34	-18461.6	17183.4	3010.25	273684.47	5516806	3010.25
PD1-76-02	94.79	-18406.2	17157.6	3009.5	273738.91	5516778.2	3009.5
PD1-76-03	100.89	-18376.3	17149.2	3010.04	273768.48	5516768.7	3010.04
PD1-76-04	93.57	-18348.4	17140	3010.51	273796.04	5516758.5	3010.51
PD1-77-02	213.66	-18456.5	17115.6	3010.25	273687.13	5516738	3010.25
PD1-82-1	154.23	-18438	16457.09	3000	273681.96	5516079.3	3000
PD1-84-01	635.81	-18330.2	17424	3010.81	273824.43	5517041.7	3010.81
PD1-84-02	294.44	-18558.3	17307.5	3010.25	273592.29	5516933.5	3010.25
PD1-84-03	611.43	-18524.9	17389.5	3010.25	273628.61	5517014.2	3010.25
PD1-84-04	520.29	-18357.9	17356.7	3010.25	273794.33	5516975.4	3010.25
PD1-84-05	535.23	-18071	17257.3	3010.25	274077.47	5516865.8	3010.25
PD1-84-06	573.94	-17943.17	17054.96	3000	274197.95	5516659	3000
PD1-91-07	242.68	-17269.25	16832.06	3000	274863.42	5516412	3000
PD1-91-07EXT	830.9	-17269.25	16832.06	3000	274863.42	5516412	3000
PD1-91-08	290.22	-16865.4	16637.09	3000	275260.01	5516202.7	3000

		Matagami Mine Grid Coordinates			UTM NAD83 zone 18		
HOLE-ID	LENGTH (Metres)	LOCATION X	LOCATION Y	LOCATION Z	UTM X	UTM Y	UTM Z
PD1-91-08EXT	497	-16865.4	16637.09	3000	275260.01	5516202.7	3000
PD1-97-09	483.4	-16845.65	16835.42	3000	275286.87	5516400.2	3000
PD1-97-10	1010.7	-16250.52	16596.98	3000	275873.05	5516140.5	3000
PD1-99-11	942.7	-17396.44	16962.7	3000	274741.01	5516547.1	3000
PD1-99-12	966	-16674.2	16609.84	3000	275450.1	5516168.6	3000
121G-01	121.92	-18434	17170.7	3010.25	273711.59	5516792.3	3010.25
121G-02	197.51	-18421.9	17200.4	3010.25	273724.75	5516821.5	3010.25
121G-03	142.04	-18394.3	17187.7	3010.25	273751.88	5516807.9	3010.25
121G-04	142.04	-18365.5	17177.8	3010.25	273780.3	5516796.9	3010.25
121G-05	147.98	-18337.4	17166.6	3010.25	273807.98	5516784.7	3010.25
121G-06	142.04	-18309.2	17155.3	3010.25	273835.76	5516772.4	3010.25
121G-07	126.8	-18450	17211.6	3010.25	273697.07	5516833.7	3010.25
121G-08	215.19	-18342.5	17234.4	3010.25	273805.32	5516852.7	3010.25
121G-09	213.97	-18286.1	17211.9	3010.25	273860.88	5516828.2	3010.25
121G-10	203	-18314.3	17223.1	3010.25	273833.1	5516840.4	3010.25
121G-11	199.64	-18398.8	17256.9	3010.25	273749.87	5516877.2	3010.25
121G-12	169.16	-18455.1	17279.4	3010.25	273694.41	5516901.7	3010.25
121G-13	151.49	-18478.2	17222.9	3010.25	273669.3	5516846	3010.25
121G-14	153.01	-18506.4	17234.1	3010.25	273641.52	5516858.3	3010.25
121G-15	206.04	-18370.6	17245.6	3009.85	273777.64	5516864.9	3009.85
121G-16	314.55	-18330.9	17262.6	3010.25	273817.93	5516880.4	3010.25
121G-17	305.41	-18359.3	17272.9	3010.38	273789.92	5516891.7	3010.38
121G-18	319.43	-18302.8	17251.4	3010.25	273845.61	5516868.2	3010.25
121G-19	334.67	-18274.6	17240.1	3010.25	273873.38	5516855.9	3010.25
121G-20	287.73	-18387.3	17285.1	3010.25	273762.37	5516904.9	3010.25
121G-21	304.8	-18415.4	17296.4	3010.25	273734.7	5516917.2	3010.25
121G-22	181.36	-18514.2	16974.2	3010.25	273624.38	5516598.8	3010.25
121G-23	389.53	-18308.5	17318.6	3009.94	273842.33	5516935.6	3009.94
121G-24	424.89	-18330.4	17345.1	3010.81	273821.39	5516962.9	3010.81
121G-24WA	438.3	-18330.4	17345.1	3010.81	273821.39	5516962.9	3010.81
121G-25	401.73	-18279.7	17307.9	3010.25	273870.72	5516923.9	3010.25
121G-26	267	-18342.5	17234.4	3010.25	273805.32	5516852.7	3010.25
121G-27	251.46	-18370.7	17245.7	3009.85	273777.55	5516865	3009.85
121G-28	407.82	-18251.5	17296.6	3010.25	273898.5	5516911.6	3010.25
121G-29	252.07	-18398.8	17256.9	3010.25	273749.87	5516877.2	3010.25
121G-30	258.47	-18427	17268.1	3010.25	273722.09	5516889.4	3010.25
121G-31	273.71	-18314.3	17223.1	3010.25	273833.1	5516840.4	3010.25
121G-32	258.47	-18286.1	17211.9	3010.25	273860.88	5516828.2	3010.25
121G-33	426.11	-18223.4	17285	3010.45	273926.16	5516899	3010.45
121G-34	590.09	-18212.4	17395.2	3010.12	273941.12	5517008.7	3010.12
121G-35	161.85	-18382.2	17217.4	3010.25	273765.04	5516837.1	3010.25
121G-36	332.38	-18344.7	17309.2	3010.25	273805.81	5516927.5	3010.25
121G-37	342.9	-18260.2	17275.4	3010.25	273889.04	5516890.7	3010.25
121G-38	610.21	-18268.7	17414.5	3011.35	273885.55	5517030	3011.35
121G-39	580.95	-18153.6	17374.5	3010.77	273999.14	5516985.9	3010.77
121G-39WA	467.56	-18153.6	17374.5	3010.77	273999.14	5516985.9	3010.77
121G-40	162.46	-18353.6	17206.9	3010.23	273793.24	5516825.6	3010.23
121G-41	803.76	-18138	17494.5	3010.25	274019.04	5517105.2	3010.25
121G-42	453.54	-18231.9	17345.3	3010.71	273919.84	5516959.5	3010.71
121G-43	477.93	-18259.3	17357.2	3010.4	273892.88	5516972.4	3010.4

Appendix II: PD1 Assays and Composites

PD1-10-18 Assays

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
33	34	0969001	0.005	1.5	0.008	0.002	0.18	2.94	VO10009949
34	34.5	0969002	0.093	34.8	0.122	0.022	3.52	3.82	VO10009949
34.5	36	0969003	0.072	11	0.915	0.015	1.545	4.71	VO10009949
36	37.5	0969004	0.073	12	0.72	0.011	6.22	4.58	VO10009949
37.5	39	0969005	0.072	5.3	0.214	0.02	4.11	4.67	VO10009949
39	40.6	0969006	0.095	12.8	0.562	0.027	2.6	4.63	VO10009949
40.6	42	0969007	0.101	19.2	0.732	0.029	2.35	4.58	VO10009949
42	43.5	0969008	0.042	20.1	1.195	0.022	0.555	4.26	VO10009949
43.5	45	0969009	0.056	32.3	1.93	0.024	2.49	4.15	VO10009949
45	45.5	0969010	0.037	32.2	0.243	0.03	2.21	4.68	VO10009949
45.5	47	0969011	0.005	0.4	0.017	0.013	0.067	2.79	VO10009949
47	47.9	0969012	0.005	0.3	0.01	0.008	0.038	2.8	VO10009949
47.9	49.5	0969013	0.031	6.9	0.113	0.031	2.44	4.74	VO10009949
49.5	51	0969014	0.037	6.5	0.09	0.037	3.42	4.67	VO10009949
51	52.5	0969015	0.046	6.7	0.062	0.036	0.365	4.37	VO10009949
52.5	54	0969016	0.044	7.8	0.07	0.04	1.065	4.63	VO10009949
	Std	0969017	0.085	10.2	0.986	0.033	10.1		VO10009949
	Blank	0969018	-0.005	0.5	0.002	0.002	0.036		VO10009949
54	55.5	0969019	0.027	3.7	0.082	0.021	1.875	4.48	VO10009949
55.5	57	0969020	0.029	6.5	0.06	0.019	4.34	4.14	VO10009949
57	58.5	0969021	0.049	8.4	0.138	0.027	2.79	4.63	VO10009949
58.5	60	0969022	0.101	9.2	0.231	0.026	6.23	4.59	VO10009949
60	61.5	0969023	0.068	7.5	0.363	0.023	3.51	4.69	VO10009949
61.5	63	0969024	0.117	14.2	0.284	0.024	3.67	4.7	VO10009949
63	64.5	0969025	0.137	8.5	0.395	0.023	4.97	4.73	VO10009949
64.5	65.4	0969026	0.098	15.6	0.33	0.028	4.06	4.68	VO10009949
65.4	66	0969027	0.015	2.1	0.012	0.008	0.942	3.11	VO10009949
66	66.6	0969028	0.125	9.3	0.223	0.017	1.855	4.11	VO10009949
66.6	67.6	0969029	0.071	2.8	0.289	0.009	1.99	3.36	VO10009949
67.6	68.7	0969030	0.053	3.2	0.589	0.009	1.155	3.42	VO10009949
68.7	70.3	0969031	0.224	6.4	1.26	0.027	0.405	4.27	VO10009949
70.3	72	0969032	0.163	8.1	0.586	0.034	0.772	4.38	VO10014866
72	73.5	0969033	0.306	20.9	3.27	0.025	0.662	4.34	VO10014866
73.5	75	0969034	0.216	36.5	2.76	0.023	0.385	4.46	VO10014866
75	76.5	0969035	0.27	36.7	1.98	0.025	0.225	4.64	VO10014866
76.5	78	0969036	0.26	24.1	1	0.016	0.367	4.38	VO10014866
78	79.5	0969037	0.094	11	0.086	0.013	6.14	4.27	VO10014866
79.5	81	0969038	0.087	15.4	0.078	0.013	2.85	4.2	VO10014866
81	82.5	0969039	0.085	18.3	0.496	0.015	1.895	4.7	VO10014866
82.5	84	0969040	0.14	22.4	1.075	0.03	1.165	4.16	VO10014866
	Std	0969041	0.074	9.8	0.956	0.029	9.95		VO10014866
	Blank	0969042	-0.005	0.3	0.01	0.001	0.021		VO10014866
84	85.5	0969043	0.174	20.3	0.572	0.01	0.164	4.63	VO10014866
85.5	87	0969044	0.183	26.5	0.731	0.009	0.041	4.76	VO10014866
87	88.5	0969045	0.191	22.6	0.605	0.007	0.023	4.72	VO10014866
88.5	90.2	0969046	0.15	22.2	0.537	0.008	0.023	4.38	VO10014866
90.2	91.5	0969047	0.064	3.8	0.035	0.003	0.038	3.25	VO10014866

PD1-10-19 Assays

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
66.5	68	0969049	0.021	2.7	0.009	0.009	0.045	2.82	VO10018165
68	69.5	0969050	0.015	4.5	0.01	0.008	0.076	3.06	VO10018165
69.5	70	0969051	0.157	15.8	8.78	0.017	0.887	3.33	VO10018165
70	71.1	0969052	0.363	28.8	1.475	0.034	0.235	4.19	VO10018165
71.1	72	0969053	0.103	16.8	0.606	0.015	0.064	4.21	VO10018165
72	73.6	0969054	0.146	35.8	1.175	0.017	0.452	4.38	VO10018165
73.6	75	0969055	0.03	2.1	0.064	0.005	0.584	2.84	VO10018165
75	76.5	0969056	0.013	1.3	0.146	0.012	1.265	3.53	VO10018165
76.5	78	0969057	0.069	2.8	0.287	0.014	0.289	3.76	VO10018165
78	78.6	0969058	0.056	3.9	0.162	0.012	0.058	3.86	VO10018165
78.6	80	0969059	0.07	0.2	0.013	0.003	0.052	2.81	VO10018165
	Blank	0969060	-0.005	-0.2	0.009	0.003	0.025		VO10018165
	Std	0969061	0.068	10.3	0.985	0.032	9.79		VO10018165

PD1-10-20 Assays

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
30.3	31.8	0969062	0.00	0.6	0.021	0.01	0.112	2.91	VO10018165
31.8	32.2	0969063	0.03	6.2	0.074	0.059	1.16	3.11	VO10018165
32.2	32.7	0969064	0.08	8.4	0.288	0.084	15.35	4.03	VO10018165
32.7	33.5	0969065	0.00	0.5	0.019	0.011	0.141	2.95	VO10018165
33.5	35	0969066	0.10	19.4	0.254	0.084	0.938	4.62	VO10018165
35	36	0969067	0.12	13.8	1.12	0.026	0.803	4.26	VO10018165
36	37.5	0969068	0.11	14.6	0.769	0.1	1.14	4.22	VO10018165
37.5	39	0969069	0.17	21	0.814	0.033	0.94	4.56	VO10018165
39	40.5	0969070	0.12	20.2	1.995	0.031	0.183	4.5	VO10018165
40.5	42	0969071	0.13	24.8	2.01	0.077	3.35	4.41	VO10018165
		Blank	0.00	0.2	0.019	-	0.035		VO10018165
		Std	0.02	10.3	0.987	0.031	10.05		VO10018165
42	43.3	0969074	0.12	31	2.13	0.249	4.68	4.23	VO10018165
43.3	45	0969075	0.09	22.1	1.525	0.066	9.37	4.51	VO10018165
45	46.5	0969076	0.11	13.2	0.725	0.033	1.9	4.56	VO10018165
46.5	48	0969077	0.11	7.9	0.264	0.039	3.13	4.72	VO10018165
48	48.7	0969078	0.10	4.6	0.241	0.028	6.68	4.64	VO10018165
48.7	50.5	0969079	0.07	4.6	0.125	0.026	9.92	4.43	VO10020509
50.5	52	0969080	0.00	0.2	0.011	0.008	0.091	2.79	VO10020509
52	53	0969081	0.00	0.2	0.007	0.003	0.049	2.78	VO10020509
53	53.7	0969082	0.05	2.6	0.082	0.02	3.61	4.78	VO10020509
53.7	54.3	0969083	0.01	0.9	0.022	0.005	1.625	2.84	VO10020509
54.3	55	0969084	0.04	2.4	0.047	0.028	1.66	3.66	VO10020509
55	56	0969085	0.12	5	0.246	0.043	2.7	4.87	VO10020509
56	57	0969086	0.11	4.3	0.136	0.037	2.78	4.84	VO10020509
57	58.5	0969087	0.15	4.5	0.168	0.052	3.43	4.88	VO10020509
58.5	60	0969088	0.08	5	0.132	0.061	3.88	4.9	VO10020509
60	61.4	0969089	0.09	4.8	0.253	0.063	3.31	4.81	VO10020509
61.4	62.6	0969090	0.08	5.3	0.31	0.049	0.117	4.42	VO10020509
62.6	64.3	0969091	0.05	6.5	0.102	0.04	0.549	3.48	VO10020509
64.3	65.8	0969092	0.12	12.1	0.657	0.036	0.06	4.25	VO10020509
		Blank	-	-0.2	0.006	0.001	0.015		VO10020509
		Std	0.06	9.6	0.995	0.034	10.5		VO10020509
65.8	67.3	0969095	0.00	0.8	0.346	0.004	0.06	2.96	VO10020509
67.3	69	0969096	0.00	0.2	0.006	0.002	0.039	2.82	VO10020509
72.8	73.7	0969097	0.01	0.5	0.005	0.003	0.075	2.92	VO10020509
73.7	74.9	0969098	0.02	1.2	0.347	0.004	0.08	2.92	VO10020509
74.9	75.4	0969099	0.04	1.4	0.037	0.004	0.022	4.16	VO10020509
75.4	76.9	0969100	0.00	0.2	0.069	0.002	0.027	2.92	VO10020509
76.9	78	0969101	0.00	0.2	0.195	0.002	0.023	2.99	VO10020509
78	79.4	0969102	0.00	0.2	0.012	0.001	0.016	2.9	VO10020509
79.4	80.8	0969103	0.00	0.2	0.124	0.001	0.027	2.92	VO10020509
80.8	82.3	0969104	0.01	0.6	0.022	0.003	0.024	3.64	VO10020509
82.3	83.3	0969105	0.00	1.2	0.128	0.002	0.041	2.93	VO10020509
83.3	84.8	0969106	0.01	0.8	0.432	0.003	0.046	2.84	VO10020509

PD1-10-22 Assays

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
	Std	0969107	0.069	10	0.976	0.038	11.15		VO10020507
	Blank	0969108	-0.005	-0.2	0.01	0.001	0.025		VO10020507
31.7	33	0969109	0.303	29	3.77	0.038	2.2	4.53	VO10020507
33	34.5	0969110	0.117	13.9	0.66	0.06	1.825	4.58	VO10020507
34.5	36	0969111	0.072	3	0.714	0.016	2.65	4.52	VO10020507
36	37.1	0969112	0.067	3.6	0.625	0.013	4.22	4.29	VO10020507
37.1	38.4	0969113	0.111	3.8	0.403	0.011	1.725	4.42	VO10020507
38.4	39.6	0969114	0.118	9	1.015	0.016	0.603	4.46	VO10020507
39.6	40.2	0969115	0.005	7.8	0.034	0.002	0.046	3.01	VO10020507

PD1-10-23 Assays

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
26	27	0969116	0.101	16	1.245	0.069	1.96	3.78	VO10020508
27	28.5	0969117	0.163	19.1	1.28	0.029	2.84	4.26	VO10020508
28.5	29.9	0969118	0.15	22.7	1.64	0.024	4.33	3.78	VO10020508
29.9	31.8	0969119	0.005	0.2	0.022	0.002	0.049	2.77	VO10020508
31.8	33	0969120	0.105	7.7	1.55	0.055	5.13	4.61	VO10020508
33	34.5	0969121	0.142	12.8	1.145	0.037	1.25	3.77	VO10020508
34.5	36	0969122	0.105	15.6	1.215	0.019	1.235	3.87	VO10020508
36	37.5	0969123	0.062	9.6	1.855	0.016	2.71	4	VO10020508
	Std	0969124	0.077	10.2	1.02	0.034	10.2		VO10020508
	Blank	0969125	-0.005	0.4	0.092	0.001	0.129		VO10020508
37.5	39	0969126	0.032	2.7	2.48	0.013	2.74	3.69	VO10020508
39	39.6	0969127	0.035	2.7	0.306	0.008	0.215	4.03	VO10020508
39.6	40.3	0969128	0.012	1.6	0.148	0.005	0.104	2.89	VO10020508
40.3	42	0969129	0.043	5.2	0.554	0.01	0.063	4.43	VO10020508
42	43.5	0969130	0.066	2.4	0.333	0.008	0.074	4.21	VO10020508
43.5	45	0969131	0.018	1.2	0.038	0.01	0.073	2.93	VO10020508
45	46.5	0969132	0.084	3.2	0.912	0.078	0.564	3.66	VO10020508
46.5	48	0969133	0.051	2.6	0.298	0.017	0.061	2.98	VO10020508
48	49.5	0969134	0.012	1.2	0.341	0.009	0.041	4.03	VO10020508
49.5	50.9	0969135	0.084	2.5	0.695	0.023	0.171	3.95	VO10020508
50.9	52.5	0969136	0.005	0.2	0.014	0.003	0.051	2.93	VO10020508

PD1-10-24 Assays

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
39	40	0969137	0.005	0.2	0.015	0.004	0.052	2.93	VO10021000
40	41	0969138	0.033	10.8	0.566	0.015	0.06	3.72	VO10021000
41	42	0969139	0.064	10	0.481	0.017	0.097	4.33	VO10021000
42	43.5	0969140	0.147	14.3	0.552	0.036	0.44	4.56	VO10021000
43.5	45	0969141	0.112	16.6	1.155	0.023	0.58	4.81	VO10021000
45	46.5	0969142	0.09	18.7	0.596	0.063	0.5	4.63	VO10021000
46.5	48	0969143	0.132	27.5	1.32	0.037	2.02	4.37	VO10021000
48	49.4	0969144	0.148	34.6	2.15	0.224	2.44	4.26	VO10021000
49.4	50.6	0969145	0.112	37.5	2.52	0.185	1.5	4.09	VO10021000
50.6	51.8	0969146	0.055	16	0.964	0.029	2.16	3.89	VO10021000
51.8	52.4	0969147	0.047	7.2	0.157	0.014	3.2	3.29	VO10021000
	Std	0969148	0.071	10	0.997	0.032	10.65		VO10021000
	Blank	0969149	-0.005	0.7	0.051	0.001	0.131		VO10021000
52.4	53.3	0969150	0.012	5.6	0.091	0.02	0.48	3.46	VO10021000
53.3	54	0969151	0.052	10.9	0.216	0.066	0.755	3.3	VO10021000
54	54.9	0969152	0.014	3.3	0.125	0.01	0.056	4.25	VO10021000
54.9	56.2	0969153	0.005	0.2	0.01	0.002	0.029	2.79	VO10021000
56.2	57	0969154	0.038	2.1	0.076	0.015	3.88	3.81	VO10021000
57	58.5	0969155	0.114	3.9	0.049	0.022	2.18	4.4	VO10021000
58.5	60	0969156	0.09	5.7	0.142	0.012	1.17	4.2	VO10021000
60	61.4	0969157	0.072	4.9	0.086	0.009	0.223	4.29	VO10021000
61.4	62.5	0969158	0.064	6.9	0.512	0.009	0.31	4.44	VO10021000
62.5	63	0969159	0.094	10.2	1.04	0.036	0.257	4.65	VO10021000
63	64.5	0969160	0.068	6.9	1.295	0.015	1.02	4.59	VO10021000
64.5	66	0969161	0.071	7.3	0.725	0.013	0.209	4.85	VO10021000
66	67.5	0969162	0.188	13.6	0.38	0.016	0.044	4.62	VO10021000
67.5	68.3	0969163	0.274	31.8	0.929	0.025	0.034	4.28	VO10021000
68.3	69.7	0969164	0.054	5.8	0.308	0.006	0.037	3.51	VO10021000
69.7	71	0969165	0.011	6.9	1.88	0.014	0.062	3.5	VO10021000
71	72	0969166	0.005	0.5	0.027	0.002	0.072	2.93	VO10021000

PD1-10-25 Assays

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
31.9	32.6	0969167	0.006	1.2	0.068	0.018	0.185	2.84	VO10021960
32.6	34	0969168	0.063	16.1	1.385	0.029	0.587	4.38	VO10021960
34	34.3	0969169	0.005	0.2	0.009	0.001	0.063	2.87	VO10021960
34.3	36	0969170	0.085	20.9	0.48	0.024	0.198	4.59	VO10021960
36	37.5	0969171	0.124	18.8	0.514	0.028	1.105	4.56	VO10021960
37.5	39	0969172	0.093	22.2	1.305	0.176	2.31	4.09	VO10021960
39	40.5	0969173	0.176	26.9	1.18	0.114	4.2	4.2	VO10021960
40.5	42	0969174	0.157	29.5	1.71	0.116	3.33	4.18	VO10021960
42	43.5	0969175	0.12	25.9	0.74	0.044	2.84	3.97	VO10021960
43.5	44.4	0969176	0.141	34.3	1.25	0.102	1.445	4.17	VO10021960
44.4	45.4	0969177	0.013	2.6	0.059	0.007	0.52	3.06	VO10021960
45.4	47	0969178	0.007	1.5	0.029	0.003	0.486	3.03	VO10021960
47	48	0969179	0.024	4.7	0.16	0.012	6.32	4.38	VO10021960
48	48.9	0969180	0.046	2	0.033	0.01	2.65	4.17	VO10021960
48.9	50.4	0969181	0.009	0.5	0.022	0.004	0.125	3.38	VO10021960
50.4	52	0969182	0.009	0.2	0.011	0.002	0.513	3.4	VO10021960
52	53.5	0969183	0.047	3	0.142	0.01	0.612	4.14	VO10021960
53.5	54.9	0969184	0.005	0.2	0.005	0.001	0.032	2.8	VO10021960
54.9	55.8	0969185	0.005	0.2	0.004	0.001	0.068	2.8	VO10021960
	Std	0969186		10.8	0.96	0.031	9.79		VO10021960
	Blank	0969187	-0.005	-0.2	0.014	-0.001	0.028		VO10021960
55.8	57	0969188	0.068	8.6	0.418	0.015	0.109	4.26	VO10021960
57	58.5	0969189	0.083	6.6	0.778	0.01	0.605	4.6	VO10021960
58.5	60	0969190	0.068	6	0.579	0.012	0.481	4.76	VO10021960
60	61.6	0969191	0.13	27	0.449	0.011	0.105	4.31	VO10021960
61.6	63	0969192	0.032	3.6	0.269	0.004	0.058	3.43	VO10021960
63	64.5	0969193	0.016	3.2	0.58	0.003	0.059	3.65	VO10021960
64.5	66	0969194	0.011	1.1	0.075	0.001	0.201	2.86	VO10021960

PD1-10-26 Assays

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
33	34.4	0969195	0.005	0.2	0.007	0.002	0.054	2.79	VO10021539
34.4	36	0969196	0.05	3.4	0.054	0.031	8.55	3.9	VO10021539
36	37.5	0969197	0.089	11.3	0.093	0.079	8.88	4.19	VO10021539
37.5	39	0969198	0.164	24.9	1.075	0.087	2.39	4.17	VO10021539
39	40.5	0969199	0.175	15.5	0.992	0.036	1.965	4.43	VO10021539
40.5	42	0969200	0.095	9.4	0.246	0.026	1.06	4.69	VO10021539
	Std	0969201		10.8	0.964	0.029	9.67		VO10021539
	Blank	0969202	-0.005	0.2	0.008	-0.001	0.053		VO10021539
42	43.5	0969203	0.09	8.8	0.166	0.022	2.96	4.67	VO10021539
43.5	45	0969204	0.094	8.1	0.447	0.016	2.4	4.65	VO10021539
45	46.5	0969205	0.091	7.9	0.621	0.016	0.504	4.63	VO10021539
46.5	48	0969206	0.098	6.3	0.152	0.021	0.561	4.1	VO10021539
48	49.5	0969207	0.186	12.1	0.496	0.045	1.745	4.22	VO10021539
49.5	51	0969208	0.141	8.7	0.937	0.034	2.09	4.34	VO10021539
51	52.5	0969209	0.374	7.5	0.6	0.025	6.5	4.18	VO10021539
52.5	54	0969210	0.148	12.9	2.31	0.056	2.96	4.52	VO10021539
54	55.4	0969211	0.142	15.1	1.375	0.055	2.81	4.58	VO10021539
55.4	56	0969212	0.084	4.1	0.226	0.007	2.08	4.02	VO10021539
56	57	0969213	0.005	0.2	0.014	0.001	0.053	2.84	VO10021539

PD1-10-27

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
52	53	0969229	0.011	1.4	0.005	0.006	0.035	2.84	VO10103425
53	53.5	0969230	0.055	29.7	0.323	0.027	1.205	3.3	VO10103425
53.5	54.5	0969231	0.106	25.2	0.601	0.019	6.94	4.71	VO10103425
54.5	55.6	0969232	0.084	7.7	0.609	0.022	6.32	4.75	VO10103425
55.6	57	0969233	0.068	14.5	0.624	0.02	1.46	4.58	VO10103425
57	58	0969234	0.053	16.1	0.456	0.021	4.79	4.53	VO10103425
58	59.3	0969235	0.059	11.3	0.206	0.019	8.47	4.66	VO10103425
59.3	60.6	0969236	0.01	0.5	0.009	0.009	0.073	2.8	VO10103425
60.6	62	0969237	0.008	0.4	0.006	0.011	0.064	2.81	VO10103425
62	63.5	0969238	0.122	12.3	0.797	0.033	7.88	4.7	VO10103425
63.5	65.1	0969239	0.128	15.5	0.589	0.032	14.4	4.53	VO10103425
65.1	66.7	0969240	0.158	22.4	1.06	0.026	4.92	4.67	VO10103425
66.7	68.5	0969241	0.036	4.5	0.119	0.012	10.4	3.37	VO10103425
	Std	0969242		10.3	1.02	0.028	9.67		VO10103425
	Blank	0969243	0.009	0.2	0.01	0.001	0.116		VO10103425
68.5	69.6	0969244	0.084	4.7	0.318	0.019	4.81	4.38	VO10103425
69.6	70.9	0969245	0.055	5	0.162	0.019	1.27	4.64	VO10103425
70.9	72.3	0969246	0.079	4.5	0.238	0.018	1.16	4.81	VO10103425
72.3	73.8	0969247	0.158	8.5	0.528	0.061	0.508	4.69	VO10103425
73.8	74.9	0969248	0.159	23.5	0.293	0.054	0.434	4.76	VO10103425
74.9	76	0969249	0.087	7.7	0.784	0.015	0.439	3.93	VO10103425
76	77.5	0969250	0.074	5.1	0.689	0.011	0.112	3.85	VO10103425
77.5	78.5	0969251	0.028	1	0.019	0.007	0.113	3.34	VO10103425
78.5	80	0969252	0.109	5.1	1.1	0.014	5.84	4.65	VO10103425
80	81.3	0969253	0.064	3.7	1.18	0.009	3.27	4.3	VO10103425
81.3	82.8	0969254	0.086	6.1	1.795	0.009	1.785	4.25	VO10103425
82.8	84.2	0969255	0.108	15	0.99	0.022	2.84	4.39	VO10103425
84.2	85.7	0969256	0.043	6.5	0.148	0.009	0.048	3.38	VO10103425
85.7	87	0969257	0.054	4.3	0.951	0.005	0.038	4.23	VO10103425
87	88.6	0969258	0.03	1.5	0.694	0.005	0.044	3.69	VO10103425
88.6	90	0969259	0.023	1.2	0.506	0.003	0.441	3.1	VO10103425
90	91.5	0969260	0.018	0.8	0.004	0.008	0.095	2.85	VO10103425
91.5	93	0969261	0.017	0.5	0.067	0.001	0.356	2.9	VO10103425
93	94.5	0969262	0.005	0.4	0.007	0.003	0.143	2.82	VO10103425
94.5	95.7	0969263	0.007	0.3	0.092	0.003	0.063	2.92	VO10103425
95.7	97.1	0969264	0.042	4.3	0.863	0.011	0.033	3.84	VO10103425
97.1	97.8	0969265	0.006	0.3	0.015	0.003	0.026	2.91	VO10103425
97.8	99	0969266	0.005	0.2	0.015	0.006	0.05	2.81	VO10103425

PD1-10-28

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
57	58.1	0969267	0.035	0.2	0.003	0.083	0.067	2.87	VO10104280
58.1	59.8	0969268	0.034	6.4	0.051	0.469	16.95	4.3	VO10104280
59.8	60.7	0969269	0.063	99.9	1.255	0.149	1.835	3.16	VO10104280
60.7	62	0969270	0.182	137	0.63	0.156	3.67	4.21	VO10104280
62	63.5	0969271	0.104	36.9	0.974	0.048	7.37	4.27	VO10104280
63.5	65	0969272	0.09	29	1.08	0.052	3.1	3.8	VO10104280
65	66.3	0969273	0.1	9.5	0.486	0.028	5.41	4.43	VO10104280
66.3	67.8	0969274	0.156	15.1	1.415	0.055	2.21	4.56	VO10104280
67.8	69.3	0969275	0.26	56.1	3.55	0.054	3.78	3.99	VO10104280
69.3	70.9	0969276	0.107	31.8	2.73	0.052	2.45	3.74	VO10104280
70.9	72.4	0969277	0.18	16.5	1.255	0.144	4.82	4.13	VO10104280
72.4	74	0969278	0.135	8	1.515	0.011	5.27	4.09	VO10104280
	Std	0969279		10.5	1.02	0.03	9.8		VO10104280
	Blank	0969280	0.009	0.4	0.053	0.001	0.222		VO10104280
74	75.5	0969281	0.229	21.1	1.87	0.021	0.994	4.27	VO10104280
75.5	77	0969282	0.201	20.6	0.878	0.021	0.857	4.55	VO10104280
77	78.5	0969283	0.226	22.8	0.559	0.016	1.805	4.45	VO10104280
78.5	80	0969284	0.227	23.4	1.175	0.019	0.36	4.47	VO10104280
80	81.5	0969285	0.222	26.4	0.446	0.024	0.335	4.55	VO10104280
81.5	83	0969286	0.111	11.6	0.67	0.016	2.96	4.53	VO10104280
83	84.5	0969287	0.174	18.6	1.535	0.01	0.279	4.53	VO10104280
84.5	85.8	0969288	0.071	10.7	1.36	0.01	0.147	4.61	VO10104280
85.8	87.3	0969289	0.051	5.2	0.21	0.012	0.244	4.16	VO10104280
87.3	88.2	0969290	0.062	3	0.147	0.016	0.085	4.07	VO10104280
88.2	89.5	0969291	0.008	0.2	0.03	0.003	0.05	2.91	VO10104280

PD1-10-29

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
99	99.7	0969292	0.01	3.4	0.015	0.00713	0.0511	2.86	VO10105660
99.7	100.9	0969293	0.081	54.6	0.097	0.01955	30	4.34	VO10105660
100.9	102	0969294	0.037	7.8	0.229	0.0173	22.9	4.48	VO10105660
102	103	0969295	0.083	39.9	0.235	0.0214	6.56	4.57	VO10105660
103	104	0969296	0.012	0.8	0.007	0.01475	0.486	3.14	VO10105660
104	105.2	0969297	0.014	1	0.061	0.01515	0.177	3.24	VO10105660
105.2	106.6	0969298	0.118	5.1	0.251	0.0395	0.0326	4.56	VO10105660
	Std	0969299		9.5	1.015	303	10.2		VO10105660
	Blank	0969300	0.025	-0.2	0.01	14.7	347	2.81	VO10105660
106.6	107.4	0969301	0.013	0.2	0.005	0.00061	0.0278	2.76	VO10105660
114.7	115.6	0969302	0.005	0.2	0.004	0.00014	0.0297	2.77	VO10105660
115.6	116.9	0969303	0.036	2.4	0.283	0.00311	0.072	3.14	VO10105660
116.9	118.5	0969304	0.171	14.5	1.07	0.01075	0.206	4.49	VO10105660
118.5	120	0969305	0.17	13.1	0.294	0.0056	0.214	4.62	VO10105660
120	121	0969306	0.131	10.3	0.594	0.00562	0.0903	4.51	VO10105660
121	121.9	0969307	0.138	10.1	0.659	0.00477	0.0378	4.41	VO10105660
121.9	123.4	0969308	0.03	2.5	0.219	0.00331	0.0309	3.76	VO10105660
123.4	124.7	0969309	0.016	0.7	1.165	0.00055	0.054	3.67	VO10105660
124.7	125.9	0969310	0.005	0.2	0.01	0.00014	0.0369	2.91	VO10105660

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FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
75.4	76.4	0967901	-0.005	-0.2	0.006	-0.001	0.021	2.76	VO10145109
76.4	78	0967902	0.157	9.5	1.225	0.011	0.055	3.42	VO10145109
78	79.5	0967903	0.06	2.1	0.207	0.008	0.039	3.27	VO10145109
79.5	81	0967904	0.059	1.3	0.237	0.006	0.029	2.95	VO10145109
81	82.5	0967905	0.015	0.3	0.065	0.002	0.026	2.83	VO10145109
82.5	84	0967906	0.017	0.3	0.069	0.002	0.017	2.92	VO10145109
84	85.5	0967907	0.017	-0.2	0.066	0.004	0.019	3.11	VO10145109
85.5	87	0967908	0.02	0.5	0.244	0.005	0.02	3.13	VO10145109
87	88.6	0967909	0.025	1.1	0.396	0.005	0.021	2.94	VO10145109
88.6	90	0967910	-0.005	-0.2	0.033	0.003	0.025	2.85	VO10145109
	Std	0967911		10.4	0.976	0.031	9.41		VO10145109
	Blank	0967912	-0.005	-0.2	0.004	0.001	0.009	2.77	VO10145109
135.7	136.7	0967913	-0.005	-0.2	0.014	0.002	0.026	2.82	VO10145109
136.7	138	0967914	-0.005	-0.2	0.008	0.001	0.021	2.79	VO10145109
138	139.5	0967915	-0.005	-0.2	0.017	0.004	0.023	2.8	VO10145109
139.5	141	0967916	0.01	0.3	0.165	0.001	0.028	2.91	VO10145109
141	141.9	0967917	0.009	0.5	0.211	0.002	0.027	3.08	VO10145109
141.9	142.9	0967918	-0.005	-0.2	0.008	0.001	0.018	2.76	VO10145109

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
87	88.2	0967919	-0.005	-0.2	0.003	-0.001	0.01	2.73	VO10145108
88.2	89.5	0967920	0.005	0.9	0.216	0.002	0.015	2.83	VO10145108
89.5	91	0967921	-0.005	-0.2	0.002	0.001	0.012	2.77	VO10145108
91	92.5	0967922	-0.005	-0.2	0.003	0.002	0.012	2.76	VO10145108
92.5	94	0967923	-0.005	-0.2	0.006	0.001	0.013	2.79	VO10145108
94	95.5	0967924	-0.005	-0.2	0.004	0.001	0.014	2.78	VO10145108
95.5	97	0967925	-0.005	-0.2	0.004	0.001	0.031	2.81	VO10145108
97	98.3	0967926	0.006	-0.2	0.003	0.001	0.028	2.79	VO10145108
98.3	99	0967927	-0.005	-0.2	0.007	0.001	0.026	2.81	VO10145108
	Std	0967928		9.1	0.934	0.03	9.68		VO10145108
	Blank	0967929	0.005	-0.2	0.005	-0.001	0.021	2.76	VO10145108
122.3	123.4	0967930	0.006	-0.2	0.014	0.004	0.048	2.95	VO10146400
123.4	124.7	0967931	0.016	0.2	0.024	0.004	0.073	3.06	VO10146400
124.7	126	0967932	0.005	-0.2	0.003	0.001	0.029	2.84	VO10146400
130.6	131.7	0967933	-0.005	-0.2	0.005	0.003	0.032	2.91	VO10146400
131.7	133	0967934	0.135	8	2.54	0.014	0.082	4.03	VO10146400
133	134	0967935	0.182	5.2	0.363	0.022	0.044	4.66	VO10146400
134	135.2	0967936	0.113	2.6	0.116	0.018	0.046	4.42	VO10146400
135.2	136.3	0967937	-0.005	-0.2	0.161	0.002	0.033	3.23	VO10146400
136.3	137.3	0967938	-0.005	-0.2	0.006	0.004	0.044	2.92	VO10146400
139.6	140.3	0967939	0.009	-0.2	0.008	0.006	0.038	2.94	VO10146400
140.3	141.6	0967940	0.006	2.5	1	0.009	0.028	4.4	VO10146400
141.6	142.3	0967941	0.206	3.2	1.945	0.008	0.047	4.57	VO10146400
142.3	143.8	0967942	0.112	2.4	1.06	0.01	0.021	4.26	VO10146400
143.8	144.4	0967943	0.027	0.5	0.486	0.004	0.016	3.49	VO10146400
144.4	146.1	0967944	0.014	-0.2	0.009	-0.001	0.025	2.82	VO10146400
146.1	147	0967945	0.006	1.2	0.982	0.006	0.023	3.09	VO10146400
147	148.5	0967946	0.016	0.8	0.507	0.006	0.028	3.21	VO10146400
148.5	150.2	0967947	0.006	-0.2	0.117	0.005	0.02	2.92	VO10146400
150.2	151.3	0967948	-0.005	-0.2	0.005	0.003	0.019	2.78	VO10146400
151.3	153	0967949	0.009	0.3	0.004	0.003	0.076	2.85	VO10146400
153	154.5	0967950	-0.005	0.2	0.002	0.001	0.069	2.85	VO10146400
154.5	156	0967951	0.007	0.8	0.477	0.002	0.043	2.84	VO10146400
156	156.4	0967952	-0.005	0.3	0.127	0.001	0.033	2.37	VO10146400
156.4	157.1	0967953	-0.005	0.2	0.139	0.004	0.017	2.76	VO10146400
	Std	0967954		9.5	0.996	0.035	9.89		VO10146400
	Blank	0967955	0.005	-0.2	0.006	0.003	0.01	2.77	VO10146400

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FROM metres	TO metres	SAMPLE #	AU GPT	AG PPM	CU %	**Cu Re-run**	PB %	ZN %	**Zn Re-run**	SG	CERTIF_NO
114.8	116.2	0967956	0.013	0.7	0.007		0.006	0.072		2.84	VO10150110
116.2	117.7	0967957	0.028	14.9	0.078		0.018	1.43		3.7	VO10150110
117.7	119.4	0967958	-0.005	0.7	0.007		0.005	0.598		2.95	VO10150110
119.4	120.6	0967959	-0.005	0.2	0.01		0.003	0.277		2.89	VO10150110
120.6	122	0967960	-0.005	0.7	0.024		0.003	0.066		2.97	VO10150110
122	123.2	0967961	0.035	20.8	0.39	0.382	0.074	4.13	4.08	4.5	VO10150110
123.2	124.2	0967962	-0.005	1.5	0.017	0.017	0.053	0.164	0.164	2.88	VO10150110
124.2	125.8	0967963	0.021	8.9	0.545	0.555	0.05	0.556	0.563	4.08	VO10150110
125.8	126.5	0967964	-0.005	-0.2	0.012	0.012	0.004	0.119	0.125	2.83	VO10150110
129.9	130.2	0967965	-0.005	-0.2	0.001	0.002	0.001	0.075	0.075	2.83	VO10150110
130.2	130.9	0967966	0.062	5.8	0.109	0.108	0.013	4.52	4.56	4.27	VO10150110
130.9	132	0967967	0.032	8.8	0.244	0.259	0.023	0.78	0.81	4.54	VO10150110
132	133.2	0967968	0.069	6.4	0.369	0.361	0.016	0.177	0.176	4.14	VO10150110
133.2	135	0967969	0.07	6.3	0.541	0.522	0.015	0.216	0.214	4.46	VO10150110
135	136.3	0967970	0.172	12.3	1.04	1.065	0.006	0.064	0.06	3.67	VO10150110
136.3	137.8	0967971	0.336	25.2	1.2	1.19	0.008	0.042	0.041	4.1	VO10150110
137.8	139.2	0967972	0.224	16.5	0.955	0.99	0.013	0.044	0.051	3.88	VO10150110
139.2	140.1	0967973	0.09	6.6	0.73	0.632	0.009	0.061	0.059	4.29	VO10150110
140.1	141.3	0967974	0.089	8.4	0.99	1.035	0.012	0.044	0.05	4.51	VO10150110
141.3	142.8	0967975	0.051	6.7	1.82	1.735	0.008	0.233	0.226	3.83	VO10150110
142.8	143.6	0967976	0.014	1.9	0.616	0.615	0.004	0.029	0.02	3.8	VO10150110
143.6	144.6	0967977	-0.005	0.2	0.36	0.354	0.004	0.037	0.028	3.49	VO10150110
144.6	145.4	0967978	-0.005	-0.2	0.022	0.021	0.002	0.027	0.022	2.75	VO10150110
	Std	0967979		10	1.21	**1.005**	0.037	11.95	**10.25**		VO10150110
	Blank	0967980	-0.005	-0.2	0.007	0.007	0.001	0.022	0.018	2.76	VO10150110

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Workorder VO10150110 standard failure investigation

	Sample ID	VO10150110 WEI-21 Recvd Wt. kg	VO10150110 Cu-AA46 Cu %		VO10150110 Cu-OG62 Cu %		VO10150110 Zn-AA46 Zn %		VO10150110 Zn-OG62 Zn %	
		Original	Original	Re-run	Original	Re-run	Original	Re-run	Original	Re-run
1	967956	3.1	0.007	*	*	*	0.072	*	*	*
2	967957	4.52	0.078	*	*	*	1.43	*	1.365	*
3	967958	3.74	0.007	*	*	*	0.598	*	*	*
4	967959	2.65	0.01	*	*	*	0.277	*	*	*
5	967960	3.42	0.024	*	*	*	0.066	*	*	*
6	967961	4.04	0.39	0.382	*	*	4.13	4.08	4.03	4.11
7	967962	2.2	0.017	0.017	*	*	0.164	0.164	*	*
8	967963	5.59	0.545	0.555	*	*	0.556	0.563	*	*
9	967964	1.37	0.012	0.012	*	*	0.119	0.125	*	*
10	967965	0.65	0.001	0.002	*	*	0.075	0.075	*	*
11	967966	2.3	0.109	0.108	*	*	4.52	4.56	**3.76**	**4.13**
12	967967	4.25	0.244	0.259	*	*	0.78	0.81	*	*
13	967968	4.13	0.369	0.361	*	*	0.177	0.176	*	*
14	967969	6.35	0.541	0.522	*	*	0.216	0.214	*	*
15	967970	4.09	1.04	1.065	1.065	1.075	0.064	0.06	*	*
16	967971	4.7	1.2	1.19	1.2	1.225	0.042	0.041	*	*
17	967972	4.68	0.955	0.99	0.985	0.982	0.044	0.051	*	*
18	967973	3.09	0.73	0.632	*	*	0.061	0.059	*	*
19	967974	4.31	0.99	1.035	1.005	1.01	0.044	0.05	*	*
20	967975	4.74	1.82	1.735	1.79	1.775	0.233	0.226	*	*
21	967976	2.24	0.616	0.615	*	*	0.029	0.02	*	*
22	967977	2.81	0.36	0.354	*	*	0.037	0.028	*	*
23	967978	1.91	0.022	0.021	*	*	0.027	0.022	*	*
24	967979	0.12	**1.21**	**1.005**	1	1.01	**11.95**	**10.25**	10.25	10.15
25	967980	0.49	0.007	0.007	*	*	0.022	0.018	*	*

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
96	97.5	0967981	-0.005	0.2	0.009	0.004	0.021	2.82	VO10151057
97.5	98.7	0967982	0.039	9.4	0.074	0.036	1	3	VO10151057
98.7	99.6	0967983	0.085	22.3	0.064	0.691	2.42	4.1	VO10151057
99.6	100.5	0967984	0.188	20.8	0.042	0.229	17.95	3.94	VO10151057
100.5	**101.7**	0967985	0.031	0.2	0.001	0.007	0.07	2.73	VO10151057
108.8	109.8	0967986	0.029	4.5	0.001	0.005	0.093	2.91	VO10151057
109.8	111.2	0967987	0.071	9.4	0.594	0.065	4.4	4.21	VO10151057
111.2	112.4	0967988	0.113	83.6	0.618	0.071	4.92	4.14	VO10151057
112.4	113.6	0967989	0.072	53	0.518	0.064	11.65	3.62	VO10151057
113.6	114.4	0967990	0.074	24.9	0.057	0.078	8.76	3.93	VO10151057
114.4	115.3	0967991	0.068	11.2	0.27	0.044	8.91	3.95	VO10151057
115.3	116.7	0967992	0.082	9.5	0.267	0.034	3.43	4.22	VO10151057
116.7	118.1	0967993	0.059	12.8	0.208	0.044	3.32	4.2	VO10151057
118.1	119.6	0967994	-0.005	0.8	0.022	0.01	0.282	3.12	VO10151057
119.6	121	0967995	0.02	1	0.032	0.012	0.597	3.33	VO10151057
121	122.4	0967996	0.121	6.3	1.275	0.023	0.818	4.59	VO10151057
122.4	123.7	0967997	0.154	10.8	1.375	0.032	0.965	4.69	VO10151057
123.7	125.1	0967998	0.213	12.6	0.767	0.027	0.619	4.64	VO10151057
125.1	126.6	0967999	0.174	14.1	0.655	0.035	0.119	4.54	VO10151057
126.6	127.9	0968000	0.225	16.6	0.821	0.067	0.044	4.41	VO10151057
127.9	129.3	0968901	0.148	17.4	1.155	0.041	0.716	4.54	VO10151057
	Std	0968902		10.8	0.947	0.031	9.54		VO10151057
	Blank	0968903	-0.005	-0.2	0.028	0.002	0.038	2.73	VO10151057
129.3	130.9	0968904	0.013	1.3	0.041	0.01	0.772	3.06	VO10151057
130.9	132.6	0968905	-0.005	0.4	0.047	0.007	0.297	3.04	VO10151057
132.6	134	0968906	0.029	2.4	0.587	0.01	0.037	3.47	VO10151057
134	135.3	0968907	0.005	0.9	0.273	0.004	0.057	2.95	VO10151057
135.3	136.8	0968908	0.007	0.5	0.495	0.002	0.043	3	VO10151057
136.8	138	0968909	-0.005	-0.2	0.01	0.002	0.033	2.81	VO10151057
138	138.9	0968910	-0.005	-0.2	0.007	-0.001	0.022	2.79	VO10151057
138.9	139.9	0968911	0.041	1.2	0.119	0.005	0.035	3.18	VO10151057
139.9	141	0968912	-0.005	-0.2	0.011	0.001	0.029	2.75	VO10151057
141	142.3	0968913	-0.005	-0.2	0.006	-0.001	0.028	2.75	VO10151057
142.3	143.7	0968914	0.009	0.4	0.066	0.002	0.053	3.03	VO10151057
143.7	145.4	0968915	-0.005	0.3	0.012	0.001	0.058	2.87	VO10151057
145.4	146.8	0968916	-0.005	-0.2	0.023	-0.001	0.022	2.75	VO10151057
146.8	147.6	0968917	-0.005	-0.2	0.013	0.002	0.033	2.77	VO10151057
147.6	148.8	0968918	0.032	3.2	0.348	0.003	0.045	3.12	VO10151057
148.8	149.5	0968919	0.026	1.3	0.052	0.007	0.045	3.05	VO10151057
149.5	150.5	0968920	-0.005	-0.2	0.019	-0.001	0.03	2.81	VO10151057

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FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
117.3	118.4	0968921	-0.005	0.2	0.004	0.002	0.024	2.79	VO10153019
118.4	119.3	0968922	0.095	16.6	0.025	0.055	0.007	4.1	VO10153019
119.3	120.8	0968923	0.008	0.4	0.005	0.004	0.032	2.83	VO10153019
120.8	122.2	0968924	-0.005	2.5	0.014	0.012	0.031	2.92	VO10153019
122.2	123.3	0968925	-0.005	2.5	0.011	0.012	0.032	2.94	VO10153019
123.3	124.3	0968926	-0.005	0.6	0.01	0.019	0.053	2.86	VO10153019
124.3	125.6	0968927	0.026	33.8	0.025	0.103	0.18	2.89	VO10153019
125.6	126.1	0968928	0.112	85.2	0.89	0.067	5.2	4.09	VO10153019
126.1	127.2	0968929	0.064	37.3	0.738	0.06	9.16	4.21	VO10153019
127.2	128.6	0968930	0.013	4.2	0.034	0.011	2.52	3.12	VO10153019
128.6	129.6	0968931	0.04	17	0.785	0.014	2.46	4.72	VO10153019
129.6	130.7	0968932	0.079	0.8	0.011	0.006	0.161	3.35	VO10153019
130.7	132	0968933	0.042	6.3	0.18	0.02	1.415	4.84	VO10153019
132	133.5	0968934	0.037	4.5	0.222	0.014	2.01	4.65	VO10153019
	Std	0968935		10.1	0.98	0.031	10.05		VO10153019
	Blank	0968936	-0.005	-0.2	0.007	0.001	0.054	2.74	VO10153019
133.5	135	0968937	0.075	9.8	0.271	0.023	5.58	4.74	VO10153019
135	136.5	0968938	0.07	7.2	0.385	0.012	0.785	4.75	VO10153019
136.5	138	0968939	0.146	17.6	0.485	0.013	1.74	4.5	VO10153019
138	139.5	0968940	0.101	9.7	0.892	0.009	0.415	4.48	VO10153019
139.5	141	0968941	0.111	13	1.525	0.007	0.156	4.02	VO10153019
141	141.8	0968942	0.108	12.9	0.802	0.005	0.163	3.6	VO10153019
141.8	143.3	0968943	0.027	2.1	0.067	0.005	0.155	3.14	VO10153019
143.3	144	0968944	0.071	3.1	0.29	0.011	0.061	3.22	VO10153019
144	145.5	0968945	0.011	-0.2	0.121	0.005	0.118	2.99	VO10153019
145.5	146.8	0968946	-0.005	-0.2	0.013	0.003	0.105	2.86	VO10153019

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FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
49.5	50.7	0968947	<0.005	<0.2	0.007	0.001	0.049	2.84	VO10153270
50.7	51.9	0968948	0.013	0.6	0.004	0.011	0.187	2.87	VO10153270
51.9	52.5	0968949	0.009	1.9	0.022	0.006	0.466	3.33	VO10153270
52.5	54	0968950	0.031	5.8	0.014	0.018	1.54	3.08	VO10153270
54	54.7	0968951	0.006	0.6	0.009	0.156	0.352	3	VO10153270
54.7	55.8	0968952	0.009	0.7	0.021	0.045	0.986	3.09	VO10153270
55.8	57	0968953	0.122	33.3	2.12	0.189	0.65	4.66	VO10153270
57	57.8	0968954	0.093	19.6	0.542	0.43	2.43	4.9	VO10153270
57.8	59.3	0968955	0.032	17	0.13	0.221	17.1	4.58	VO10153270
59.3	60.7	0968956	<0.005	22.2	0.175	0.142	10.25	4.57	VO10153270
60.7	61.9	0968957	0.028	11.6	0.119	0.141	9.64	4.16	VO10153270
61.9	63	0968958	<0.005	0.5	0.009	0.064	0.263	2.88	VO10153270
63	64.4	0968959	<0.005	0.2	0.013	0.05	0.137	2.86	VO10153270
64.4	65.7	0968960	0.081	18.5	0.183	0.256	0.423	2.85	VO10153270
65.7	66.4	0968961	0.144	50.7	1.215	0.129	2.39	4.1	VO10153270
66.4	67.2	0968962	0.101	14.8	0.367	0.024	13.8	4.31	VO10153270
67.2	68.5	0968963	0.18	30.4	1.67	0.041	4.4	4.08	VO10153270
68.5	69.9	0968964	0.123	33.5	1.69	0.07	1.45	3.67	VO10153270
69.9	71	0968965	0.009	0.8	0.007	0.005	0.096	2.88	VO10153270
	Std	0968966		11	0.976	0.03	9.94		VO10153270
	Blank	0968967	<0.005	0.2	0.01	<0.001	0.036	2.74	VO10153270
75.5	76.5	0968968	<0.005	1.2	0.065	0.003	0.313	2.89	VO10153270
76.5	78	0968969	0.048	9.3	0.192	0.023	0.921	3.68	VO10153270
78	79	0968970	0.069	8.8	0.333	0.065	0.326	4.17	VO10153270
79	80.1	0968971	0.048	5.6	0.371	0.06	1.225	3.85	VO10153270
80.1	81.3	0968972	0.056	9.2	0.517	0.029	7.32	4.01	VO10153270
81.3	82.6	0968973	0.098	17.1	0.343	0.011	0.318	3.78	VO10153270
82.6	84	0968974	0.193	17.2	0.02	0.018	1.585	4.01	VO10153270
84	85.3	0968975	0.111	14.6	0.071	0.031	3.37	3.97	VO10153270
85.3	85.9	0968976	0.123	16.9	1.1	0.064	0.743	4.54	VO10153270
85.9	87	0968977	0.084	18.5	0.139	0.048	0.261	4.58	VO10153270
87	87.8	0968978	0.06	12.2	0.096	0.02	7.68	4.66	VO10153270
87.8	88.8	0968979	0.076	12	0.129	0.013	12.15	4.52	VO10153270
88.8	89.9	0968980	0.133	15.7	0.331	0.009	0.163	4.78	VO10153270
89.9	90.8	0968981	0.144	18.9	0.196	0.01	0.054	3.88	VO10153270
90.8	91.8	0968982	0.007	0.2	0.011	0.001	0.055	2.78	VO10153270

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
67	68	0968983	-0.005	-0.2	0.003	0.006	0.06	2.9	VO10154544
68	69	0968984	0.045	12.3	0.354	0.084	7.62	3.88	VO10154544
69	70	0968985	-0.005	11.3	0.443	0.052	14	4.37	VO10154544
70	71	0968986	0.04	5.1	0.069	0.047	11.85	4.52	VO10154544
71	72	0968987	0.073	8.6	0.346	0.05	6.69	4.53	VO10154544
72	73.1	0968988	0.065	9.1	0.382	0.234	12.35	4.32	VO10154544
73.1	74	0968989	0.067	8.4	0.474	0.213	8.77	3.78	VO10154544
74	75.3	0968990	0.08	20.2	0.254	0.064	5.42	3.94	VO10154544
75.3	76.3	0968991	0.069	22.1	0.451	0.029	5.43	4.71	VO10154544
76.3	77.3	0968992	0.035	14.6	0.676	0.022	6.23	4.41	VO10154544
77.3	78	0968993	0.032	10.9	0.276	0.015	5.24	4.4	VO10154544
78	79	0968994	0.121	17.3	0.274	0.027	1.24	4.57	VO10154544
79	80	0968995	0.179	20	1.595	0.078	0.406	4.67	VO10154544
80	81	0968996	0.168	15.4	1.55	0.072	0.197	4.68	VO10154544
81	82.1	0968997	0.111	12.3	0.494	0.035	0.354	4.74	VO10154544
82.1	83.2	0968998	0.072	8.8	0.679	0.03	1.545	4.48	VO10154544
	Std	0968999		9.6	0.907	0.027	9.74		VO10154544
	Blank	0969000	-0.005	-0.2	0.016	-0.001	0.036	2.75	VO10154544
83.2	84	0969401	0.06	6.5	0.587	0.065	1.08	3.76	VO10154544
84	85.4	0969402	0.097	9.3	1.365	0.036	1.83	4	VO10154544
85.4	86.2	0969403	0.149	13.1	0.622	0.035	1.975	4.53	VO10154544
86.2	87.6	0969404	0.145	20.1	1.09	0.066	2.98	4	VO10154544
87.6	89.2	0969405	0.008	-0.2	0.022	0.004	0.206	3.1	VO10154544
89.2	89.8	0969406	0.009	0.7	0.019	0.011	1.125	3.56	VO10154544
89.8	91.1	0969407	0.058	4.9	0.358	0.023	2.77	4.56	VO10154544
91.1	92.1	0969408	0.056	9.5	0.58	0.036	1.41	4.49	VO10154544
92.1	92.7	0969409	0.05	6	0.527	0.022	0.444	4.11	VO10154544
92.7	93.8	0969410	0.016	1.5	0.145	0.009	0.429	3.29	VO10154544
93.8	95	0969411	0.017	1.1	0.08	0.01	0.077	3.1	VO10154544
95	96.2	0969412	0.055	5.9	0.595	0.013	0.154	4.13	VO10154544
96.2	97.9	0969413	0.054	5.7	0.845	0.009	0.625	4.27	VO10154544
97.9	98.7	0969414	0.053	5.3	0.205	0.004	0.241	3.4	VO10154544
98.7	100.4	0969415	0.06	5.5	0.482	0.007	0.048	4.44	VO10154544
100.4	100.9	0969416	0.04	2.4	0.339	0.006	0.047	3.61	VO10154544
100.9	101.9	0969417	0.014	0.9	0.151	0.003	0.062	2.36	VO10154544
101.9	103.3	0969418	-0.005	-0.2	0.026	0.001	0.017	2.78	VO10154544
103.3	104.5	0969419	-0.005	-0.2	0.012	0.001	0.022	2.43	VO10154544
104.5	105.9	0969420	0.032	1.2	0.254	0.004	0.219	3.13	VO10154544
105.9	106.7	0969421	0.058	2.1	0.022	0.006	0.052	2.94	VO10154544
106.7	107.3	0969422	0.01	-0.2	0.033	0.001	0.03	2.79	VO10154544

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
69.9	70.9	0969423	0.007	0.2	0.01	0.006	0.04	2.85	VO10156822
70.9	72.1	0969424	0.142	186	1.465	0.089	1.13	4.08	VO10156822
72.1	73.2	0969425	0.078	44.3	1.34	0.059	3.18	4.41	VO10156822
73.2	74.5	0969426	0.093	28.8	0.795	0.033	1.43	4.55	VO10156822
74.5	75.3	0969427	0.052	5.9	0.222	0.029	3.73	4.65	VO10156822
75.3	76.8	0969428	0.052	6.5	0.609	0.036	2.49	4.57	VO10156822
76.8	78	0969429	0.037	6.7	0.522	0.037	6.83	4.42	VO10156822
78	79.5	0969430	0.029	5.4	0.238	0.027	11	4.69	VO10156822
	Std	0969431		9.8	1.015	0.03	9.52		VO10156822
	Blank	0969432	0.007	<0.2	0.008	0.001	0.138	2.78	VO10156822
79.5	80.5	0969433	0.033	14	0.076	0.029	7.62	4.66	VO10156822
80.5	81.4	0969434	0.022	8.1	0.058	0.021	7.34	4.5	VO10156822
81.4	82.7	0969435	0.06	17.3	0.109	0.026	0.237	4.7	VO10156822
82.7	83.8	0969436	0.053	24.7	0.212	0.053	0.415	2.29	VO10156822
83.8	84.9	0969437	0.089	24.1	0.592	0.057	8.15	4.61	VO10156822
84.9	86.1	0969438	0.437	20.6	0.853	0.027	7.68	4.66	VO10156822
86.1	87.5	0969439	0.168	26.6	0.281	0.024	11.45	4.46	VO10156822
87.5	88.5	0969440	0.432	62.8	0.994	0.016	3.79	4.71	VO10156822
88.5	89.7	0969441	0.29	50	0.828	0.015	0.524	4.83	VO10156822
89.7	90.7	0969442	0.058	63.7	0.537	0.014	2.49	4.77	VO10156822
90.7	92.1	0969443	0.548	77.1	1.1	0.014	2.23	4.76	VO10156822
92.1	93	0969444	0.076	11.5	0.841	0.008	3.88	4.65	VO10156822
93	94.1	0969445	0.115	17.4	0.834	0.01	2.45	4.68	VO10156822
94.1	94.8	0969446	0.116	11.2	0.603	0.012	3.19	4.66	VO10156822
94.8	96	0969447	0.054	9.5	1.075	0.019	1.86	4.48	VO10156822
96	97.4	0969448	0.063	9.4	0.568	0.012	0.673	4.22	VO10156822
97.4	98.2	0969449	0.132	12.8	0.705	0.019	1.36	3.89	VO10156822
98.2	99.7	0969450	0.162	13.7	0.426	0.014	5.67	4.61	VO10156822
99.7	100.3	0969451	0.035	2	0.107	0.013	0.701	3.34	VO10156822
100.3	101.4	0969452	0.034	2.1	0.101	0.007	0.981	3.74	VO10156822
101.4	102.5	0969453	0.169	24.9	1.555	0.019	0.554	4.37	VO10156822
102.5	103.8	0969454	0.078	10	0.177	0.054	1.935	3.76	VO10156822
103.8	105	0969455	0.006	<0.2	0.019	0.002	0.054	2.84	VO10156822

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FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
21.7	23.2	0969456	0.012	1.2	0.01	0.011	0.027	3.15	VO10158414
23.2	24.5	0969457	0.058	3.8	0.059	0.016	0.009	3.34	VO10158414
24.5	25.5	0969458	0.108	9.2	0.502	0.021	0.051	3.82	VO10158414
25.5	27	0969459	-0.005	-0.2	0.016	0.002	0.034	2.85	VO10158414
27	28.5	0969460	-0.005	0.3	0.004	0.003	0.031	2.87	VO10158414
28.5	30	0969461	-0.005	0.7	0.011	0.003	0.026	2.8	VO10158414
30	31.5	0969462	-0.005	-0.2	0.011	0.002	0.027	2.85	VO10158414
31.5	33	0969463	-0.005	-0.2	0.01	0.003	0.046	2.88	VO10158414
33	34.5	0969464	0.028	1.5	0.022	0.011	0.614	3.93	VO10158414
34.5	36	0969465	0.021	0.9	0.049	0.01	0.052	4.06	VO10158414
36	37.5	0969466	0.012	0.6	0.063	0.008	0.038	4	VO10158414
37.5	39	0969467	0.033	1.2	0.029	0.008	0.795	4.13	VO10158414
39	40.5	0969468	0.047	2.8	0.04	0.015	1.925	3.91	VO10158414
40.5	42	0969469	0.055	4.8	0.188	0.043	1.47	4.01	VO10158414
42	43.5	0969470	0.097	7.4	0.742	0.046	2.19	4.46	VO10158414
43.5	43.8	0969471	0.049	-0.2	0.036	0.002	0.094	2.82	VO10158414
43.8	45	0969472	0.135	20.6	1.73	0.047	0.137	4.64	VO10158414
45	46.5	0969473	0.145	19.5	1.28	0.032	0.133	4.65	VO10158414
46.5	48	0969474	0.128	12.1	3.08	0.013	0.154	4.59	VO10158414
48	49.5	0969475	0.109	8.3	1.12	0.009	0.246	4.71	VO10158414
49.5	51	0969476	0.133	9.8	1.235	0.006	0.068	4.74	VO10158414
51	52.5	0969477	0.092	9.7	0.806	0.005	0.048	4.52	VO10158414
52.5	54	0969478	0.066	5.2	0.799	0.007	0.037	3.83	VO10158414
54	55.5	0969479	0.042	2.7	0.239	0.005	0.032	3.68	VO10158414
55.5	57	0969480	0.047	1.9	0.09	0.004	0.024	3.32	VO10158414
57	57.8	0969481	0.046	2.1	0.768	0.005	0.041	3.44	VO10158414
57.8	58.5	0969482	-0.005	-0.2	0.068	0.001	0.027	2.86	VO10158414
	Std	0969483		10	0.966	0.031	10.4		VO10158414
	Blank	0969484	-0.005	-0.2	0.012	-0.001	0.017	2.77	VO10158414

FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
27.2	28.4	0969485	<0.005	<0.2	0.004	0.003	0.051	2.82	VO10159650
28.4	29.6	0969486	0.125	32.7	1.225	0.024	2.02	4.19	VO10159650
29.6	30.8	0969487	0.083	40.5	1.905	0.02	0.199	4.39	VO10159650
30.8	31.5	0969488	0.09	14.2	0.103	0.019	12.3	4.48	VO10159650
31.5	32.6	0969489	0.091	6	0.105	0.031	5.39	4.47	VO10159650
32.6	33.9	0969490	0.097	6.7	0.267	0.048	1.46	4.71	VO10159650
33.9	35.4	0969491	0.164	8.2	0.466	0.062	3.12	4.56	VO10159650
35.4	36.4	0969492	0.124	8.8	0.398	0.051	19.35	4.29	VO10159650
36.4	37.2	0969493	0.115	11.7	0.346	0.027	13.9	4.22	VO10159650
37.2	38.5	0969494	0.101	20.6	1.48	0.064	6.39	4.19	VO10159650
38.5	39.7	0969495	0.083	20.9	0.806	0.047	12.75	4.12	VO10159650
39.7	40.6	0969496	0.119	24.4	0.805	0.056	12.85	4.12	VO10159650
40.6	41.3	0969497	0.105	28.3	0.648	0.042	8.6	3.88	VO10159650
41.3	42.5	0969498	-0.005	-0.2	0.007	0.003	0.124	2.85	VO10159650
42.5	43.5	0969499	0.007	1.5	0.76	0.004	1.1	2.9	VO10159650
43.5	44.8	0969500	0.236	35.3	2.48	0.147	1.77	4.11	VO10159650
44.8	45.7	0968851	0.155	16.5	1.09	0.032	2.91	4.05	VO10159650
45.7	46.9	0968852	0.12	13	1.34	0.023	3.03	3.99	VO10159650
46.9	48.2	0968853	0.192	26.3	2.48	0.08	2.05	4.34	VO10159650
48.2	48.9	0968854	0.222	19.7	1.645	0.019	0.108	4.48	VO10159650
48.9	49.9	0968855	0.076	9.7	1.1	0.007	0.093	3.78	VO10159650
49.9	51	0968856	0.069	7.1	1.095	0.019	0.129	3.86	VO10159650
	Std	0968857		9.3	0.994	0.033	9.76		VO10159650
	Blank	0968858	0.009	<0.2	0.012	<0.001	0.016		VO10159650
51	52.5	0968859	0.125	15.4	1.46	0.019	0.087	4.13	VO10159650
52.5	54	0968860	0.09	8.1	0.486	0.019	0.049	3.98	VO10159650
54	55.5	0968861	0.075	4.8	0.69	0.007	0.051		VO10159650
55.5	57	0968862	0.09	5.1	0.325	0.005	0.109		VO10159650
57	58.5	0968863	0.081	3.3	0.53	0.004	0.125		VO10159650
58.5	60	0968864	0.062	1.3	0.447	0.008	0.415		VO10159650
60	61.6	0968865	0.057	2.7	0.519	0.007	0.181		VO10159650
61.6	63	0968866	0.058	7.2	0.272	0.015	0.028		VO10159650
63	64.3	0968867	0.098	4.9	0.39	0.011	0.026		VO10159650
64.3	65.8	0968868	0.107	7.9	0.26	0.014	0.043		VO10159650
65.8	66.9	0968869	0.052	5.7	0.627	0.011	0.038		VO10159650
66.9	68.3	0968870	0.14	9	0.578	0.015	0.042		VO10159650
68.3	69.8	0968871	0.1	5.8	0.391	0.022	0.058		VO10159650
69.8	70.5	0968872	0.016	56.5	0.068	0.043	0.588		VO10159650
70.5	72	0968873	<0.005	3.4	0.033	0.003	0.053		VO10159650

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FROM (metres)	TO (metres)	SAMPLE #	AU GPT	AG PPM	CU %	PB %	ZN %	SG	CERTIF_NO
30	31.3	0968874	0.018	<0.2	0.002	0.006	0.085	2.57	VO10160857
31.3	32.2	0968875	0.097	74.1	0.045	0.292	3.22	4.18	VO10160857
32.2	33	0968876	0.03	14.5	0.058	0.107	4.47	4.42	VO10160857
33	34.1	0968877	0.044	7.8	0.619	0.133	3.47	4.67	VO10160857
34.1	35.4	0968878	0.055	7	0.641	0.087	4.66	4.6	VO10160857
35.4	36	0968879	0.053	19.1	0.435	0.104	13.4	4.35	VO10160857
36	37.2	0968880	0.103	46.4	0.734	0.083	1.495	4.3	VO10160857
37.2	38.1	0968881	0.173	64.7	0.789	0.089	6.58	4.32	VO10160857
38.1	39	0968882	0.137	76.2	1.615	0.108	0.589	4.18	VO10160857
39	40.1	0968883	0.207	52.9	1.81	0.055	1.84	4.2	VO10160857
40.1	40.9	0968884	0.149	25.8	0.748	0.022	5.99	4.34	VO10160857
40.9	41.9	0968885	0.152	21.1	0.723	0.029	2.34	4.23	VO10160857
41.9	42.7	0968886	0.082	18.3	0.418	0.014	1.63	4.41	VO10160857
42.7	44.2	0968887	0.006	1.9	0.046	0.002	0.338	2.92	VO10160857
44.2	45.2	0968888	0.005	0.2	0.01	<0.001	0.036	2.78	VO10160857
45.2	46.4	0968889	0.193	11.9	1.815	0.065	4.53	4.43	VO10160857
46.4	47.7	0968890	0.124	11.9	2.34	0.036	4.87	4.18	VO10160857
47.7	48.7	0968891	0.085	17.3	1.125	0.045	2.89	4.35	VO10160857
48.7	50	0968892	0.059	13.4	1.39	0.034	0.39	4.4	VO10160857
50	51	0968893	0.111	16.6	0.517	0.028	0.121	4.44	VO10160857
51	52.5	0968894	0.153	12	0.871	0.012	0.078	4.65	VO10160857
52.5	54	0968895	0.232	13.4	0.563	0.012	0.088	4.68	VO10160857
54	55.5	0968896	0.088	17.1	0.647	0.013	0.326	4.64	VO10160857
55.5	57	0968897	0.154	11.1	0.546	0.008	0.348	4.74	VO10160857
57	58.5	0968898	0.166	14.3	1.905	0.009	0.768	4.61	VO10160857
58.5	59.3	0968899	0.081	14.8	1.41	0.028	0.525	3.95	VO10160857
59.3	60.6	0968900	<0.005	0.4	0.026	0.002	0.171	2.89	VO10160857
	Std	J744012		34.4	1.385	0.13	18.85		VO10160857
	Blank	J744013	<0.005	0.2	0.016	<0.001	0.063		VO10160857

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
121G-01	52.58	55.63	133	0.34	22.95	1.5	12.32	
121G-01	55.63	57.3	134	0.34	50.68	1.17	6.15	
121G-01	57.3	60.35	0-4		1.37	0.003	0.04	
121G-01	60.35	62.33	0-5		1.71	0.006	0.04	
121G-01	62.33	65.38	135	0.17	8.56	0.6	3.32	
121G-01	65.38	68.43	136	0.17	9.93	0.53	3.87	
121G-01	68.43	71.48	137	0.17	24.66	0.24	3.53	
121G-01	71.48	74.52	138	0.17	20.21	0.8	2.04	
121G-01	74.52	77.57	139	0.17	18.84	0.91	0.4	
121G-01	77.57	79.4	140		6.51	0.15	0.54	
121G-01	79.4	80.92	0-3		3.42	0.58	0.41	
121G-01	85.34	86.87	0-1	0.34	1.71	0.25	0.1	
121G-01	86.87	88.39	0-2		1.71	0.12	0.04	
121G-02	78.64	79.55	133A		4.11	0.01	0.02	
121G-02	84.43	87.48	134A		3.77	0.01	0.08	
121G-02	87.48	89.92	135A		1.37	0.01	0.02	
121G-02	89.92	92.05	174		3.08	0.01	0.08	
121G-02	92.05	93.57	1		52.4	0.23	27.24	
121G-02	93.57	95.1	2		21.92	1.18	15.43	
121G-02	95.1	96.62	3		8.22	0.08	0.32	
121G-02	96.62	98.76	4		6.16	0.42	0.21	
121G-02	98.76	99.97	175		11.3	0.01	0.04	
121G-02	99.97	101.5	5		35.27	2.9	1.9	
121G-02	101.5	102.72	6		8.9	0.26	0.06	
121G-02	102.72	104.24	136A		2.05	0.005	0.03	
121G-02	104.24	105.77	7	0.34	7.53	0.69	0.12	
121G-02	105.77	107.29	137A		1.37	0.06	0.02	
121G-02	107.29	109.88	138A		1.03	0.005	0.02	
121G-02	109.88	110.95	8		14.04	0.48	0.36	
121G-02	110.95	113.39	139A		2.05	0.005	0.03	
121G-02	113.39	114.91	9		21.23	1.06	0.06	
121G-02	114.91	116.43	10		3.77	0.92	0.07	
121G-02	116.43	118.87	11		3.42	0.87	0.06	
121G-02	122.68	125.43	140A		4.45	0.3	0.03	
121G-02	126.95	128.32	141		5.48	0.42	0.14	
121G-02	129.54	132.74	142		1.37	0.02	0.02	
121G-02	149.05	151.49	143		2.05	0.01	0.01	
121G-03	77.72	79.55	12	0.34	59.25	0.05	12.25	
121G-03	93.73	95.25	13		42.12	0.17	0.65	
121G-03	95.25	96.77	14		7.53	0.08	2.46	
121G-03	96.77	98.3	15		0.68	0.08	0.62	
121G-03	98.3	99.82	16		8.9	0.04	3.19	
121G-03	99.82	101.35	17		7.53	0.27	1.02	
121G-03	101.35	102.87	18	0.34	16.44	0.37	0.93	
121G-03	102.87	104.39	19		16.1	0.56	0.97	
121G-03	104.39	105.92	20		6.85	0.22	1.7	
121G-03	105.92	107.44	21		21.58	0.21	10.18	
121G-03	107.44	108.97	22		32.88	0.25	9.23	
121G-03	108.97	110.49	23	0.34	23.29	0.64	0.33	
121G-03	110.49	112.01	24	0.34	36.99	0.73	0.06	
121G-03	112.01	113.54	25		31.51	0.64	0.04	
121G-03	113.54	114.91	26		23.97	0.8	0.07	
121G-03	114.91	116.43	27	0.34	1.71	0.03	2	
121G-03	116.43	118.57	28	0.34	2.74	0.02	0.12	
121G-03	118.57	120.09	144		3.08	0.01	0.07	
121G-03	120.09	121.62	29		6.16	0.26	0.04	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
121G-03	121.62	124.66	145		1.71	0.005	0.1	
121G-03	124.66	128.32	146		3.08	0.005	0.05	
121G-03	128.32	129.84	30		4.45	0.31	0.07	
121G-03	131.37	132.89	31		3.77	0.05	0.07	
121G-04	85.34	88.39	147		0.68	0.01	0.01	
121G-04	88.39	91.44	148		1.03	0.005	0.02	
121G-04	91.44	94.49	149		0.34	0.01	0.03	
121G-04	94.49	97.54	150		21.92	0.06	0.08	
121G-04	97.54	99.06	32		6.85	0.07	21.55	
121G-04	99.06	100.58	33		15.75	0.2	15.25	
121G-04	100.58	102.11	34		8.9	0.3	2.25	
121G-04	102.11	103.63	35	0.34	18.49	0.49	2.01	
121G-04	103.63	105.16	36		18.49	0.93	3.37	
121G-04	105.16	106.68	37		13.7	0.72	0.11	
121G-04	106.68	108.2	38		2.05	0.01	0.09	
121G-04	108.2	109.73	151		2.05	0.005	0.03	
121G-04	109.73	111.25	39		2.74	0.02	0.11	
121G-04	111.25	112.78	40		3.42	0.28	0.06	
121G-04	112.78	114.3	41		7.88	0.55	0.03	
121G-04	114.3	115.82	42		10.96	0.56	0.08	
121G-04	115.82	117.35	43		11.64	0.56	0.06	
121G-04	117.35	118.87	44		5.48	0.17	0.37	
121G-04	118.87	120.4	45		5.48	0.45	0.18	
121G-04	120.4	121.92	46		3.42	0.21	0.06	
121G-04	121.92	123.44	47		2.74	0.12	0.04	
121G-04	123.44	126.49	152		1.71	0.06	0.03	
121G-04	126.49	128.02	153		2.4	0.01	0.02	
121G-05	106.68	108.2	48	0.68	82.88	1.25	4.46	
121G-05	108.2	109.73	49		34.25	0.68	4.08	
121G-05	109.73	111.25	50		7.53	0.17	6.25	
121G-05	111.25	112.78	51		8.22	0.11	0.97	
121G-05	112.78	114.3	52		8.22	0.29	1.36	
121G-05	114.3	115.82	53		21.92	0.15	6.15	
121G-05	115.82	117.35	54		38.7	0.2	1.61	
121G-05	117.35	118.87	55	0.34	38.01	1.21	0.42	
121G-05	118.87	120.4	56		8.22	0.88	4.01	
121G-05	120.4	121.92	57		7.19	0.29	10.5	
121G-05	121.92	123.44	58		26.03	0.57	1.8	
121G-05	123.44	125.58	59		4.79	0.21	0.3	
121G-05	135.64	137.16	60		2.74	0.32	0.06	
121G-05	137.16	138.68	61		2.05	0.06	0.03	
121G-05	138.68	140.21	62		3.08	0.57	0.03	
121G-05	140.21	141.73	63		1.71	0.04	0.02	
121G-06	118.57	120.09	64		1.37	0.1	0.01	
121G-06	120.09	121.62	65		1.71	0.05	0.01	
121G-06	121.62	123.14	66		1.37	0.01	0.01	
121G-06	123.14	124.66	67		1.71	0.44	0.01	
121G-06	124.66	126.19	68		2.4	1.25	0.02	
121G-06	126.19	127.71	69		2.05	0.016	0.01	
121G-06	127.71	129.24	70		1.71	0.06	0.02	
121G-07	78.94	81.99	154		2.05	0.02	0.02	
121G-07	103.63	106.07	71		2.05	0.07	1.19	
121G-08	174.04	175.56	72		4.11	0.03	1.19	
121G-08	175.56	177.09	73		8.22	0.08	2.48	
121G-08	177.09	178.61	74		11.3	0.19	0.78	
121G-08	178.61	180.14	75		10.96	0.41	7.2	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
121G-08	180.14	181.66	76		19.86	0.72	6.5	
121G-08	181.66	183.18	77		10.96	1.74	1.12	
121G-08	183.18	184.71	78		22.26	1.99	7.35	
121G-08	184.71	186.23	79		19.52	1.26	4.68	
121G-08	186.23	187.76	80		18.49	1.67	0.11	
121G-08	187.76	189.28	81		36.99	1.38	0.34	
121G-08	189.28	190.35	82		14.38	1.03	0.04	
121G-08	190.35	191.41	83		3.42	0.1	0.2	
121G-08	191.41	192.94	84		3.08	0.27	0.08	
121G-08	192.94	194.46	85		3.08	0.23	0.08	
121G-08	194.46	195.99	86		2.4	0.19	0.04	
121G-08	195.99	197.51	87		2.4	0.32	0.04	
121G-08	197.51	199.34	88		3.42	0.94	0.05	
121G-09	170.99	172.52	89		2.05	0.02	0.03	
121G-10	160.93	162.46	90		5.82	0.09	0.18	
121G-10	166.42	167.94	91		4.45	0.03	1.7	
121G-10	167.94	169.47	92		8.9	0.08	1.24	
121G-10	169.47	170.99	93		5.48	0.05	2.16	
121G-10	170.99	172.52	94		10.27	0.15	5.06	
121G-10	172.52	174.04	95		13.7	0.18	4.1	
121G-10	174.04	175.56	96		8.22	0.11	3.6	
121G-10	175.56	178.61	97		1.03	0.01	0.1	
121G-10	178.61	181.66	98		0.68	0.01	0.03	
121G-10	181.66	184.71	99		1.03	0.01	0.01	
121G-10	184.71	186.23	100		14.38	0.79	0.06	
121G-10	186.23	187.76	101		4.11	0.2	0.02	
121G-10	187.76	189.59	102		4.11	0.21	0.02	
121G-10	189.59	192.63	103		1.03	0.01	0.01	
121G-10	194.77	196.29	104		9.59	0.06	0.02	
121G-11	167.94	169.47	105		0.34	0.01	0.05	
121G-11	169.47	170.99	106		10.96	0.33	0.04	
121G-11	170.99	174.04	107		1.03	0.01	0.03	
121G-11	174.04	175.87	108		1.03	0.01	0.03	
121G-11	175.87	177.39	109		2.05	0.01	0.06	
121G-11	177.39	178.92	110		1.37	0.01	0.08	
121G-11	178.92	180.44	111		2.05	0.005	0.09	
121G-11	180.44	181.97	112		1.71	0.01	0.03	
121G-11	181.97	183.49	113		1.37	0.01	0.02	
121G-11	183.49	185.01	114		3.77	0.36	0.02	
121G-11	185.01	186.54	115		3.08	0.01	0.02	
121G-11	186.54	188.06	116		2.74	0.01	0.02	
121G-11	188.06	189.59	117		2.05	0.04	0.04	
121G-11	189.59	191.72	118		0.68	0.005	0.02	
121G-11	191.72	193.24	119		2.4	0.01	0.01	
121G-11	193.24	194.77	120		2.05	0.005	0.01	
121G-12	54.86	57.91	121		0.34	0.02	0	
121G-12	65.84	68.88	122		0.34	0.01	0	
121G-12	76.5	79.55	123		0.68	0.02	0.01	
121G-12	79.55	82.6	132		2.05	0.02	0.01	
121G-12	82.6	84.12	124		1.03	0.01	0.01	
121G-12	118.57	120.09	125		0.68	0.01	0.22	
121G-12	120.09	121.62	126		1.03	0.02	0.2	
121G-12	121.62	123.14	127		1.03	0.09	0.03	
121G-12	123.14	124.66	128		2.4	0.2	0.01	
121G-12	124.66	126.19	129		1.71	0.05	0.01	
121G-12	126.19	129.24	130		0.34	0.005	0.01	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
121G-12	129.24	130.76	131		1.37	0.04	0.01	
121G-13	58.22	59.74	155		1.37	0.02	0.02	
121G-13	59.74	61.26	156		9.93	1.15	0.05	
121G-13	61.26	62.79	157		4.45	0.04	0.02	
121G-13	62.79	64.31	158		6.51	0.06	0.04	
121G-13	64.31	65.84	159		4.79	0.08	0.03	
121G-13	65.84	67.36	160		3.77	0.19	0.03	
121G-13	67.36	68.88	161		5.14	0.41	0.03	
121G-13	68.88	70.87	162		3.42	0.39	0.03	
121G-13	70.87	72.39	163		4.79	0.02	0.04	
121G-13	126.8	128.32	164		3.08	0.18	0.03	
121G-14	49.99	51.51	165		1.37	0.01	0.09	
121G-14	51.51	53.04	166		1.03	0.01	0.18	
121G-14	53.04	54.56	167		0.34	0.03	0.19	
121G-14	54.56	56.08	168		1.03	0.03	0.13	
121G-14	56.08	57.61	169		0.34	0.02	0.11	
121G-14	57.61	59.13	170		3.42	0.4	0.95	
121G-14	59.13	60.66	171		2.05	0.15	0.05	
121G-14	60.66	62.18	172		0.68	0.03	0.02	
121G-14	62.18	63.7	173		1.37	0.02	0.02	
121G-14	131.98	133.81	176		3.42	0.1	0.05	
121G-14	135.33	136.86	177		2.74	0.01	0.05	
121G-15	168.25	169.77	178		2.74	0.01	0.32	
121G-15	169.77	171.3	179		3.77	0.05	1.46	
121G-15	171.3	172.82	180		7.53	0.46	2.27	
121G-15	172.82	174.35	181		8.9	0.41	6.8	
121G-15	174.35	175.87	182		20.21	2.4	5.4	
121G-15	175.87	177.39	183		58.22	1.46	0.14	
121G-15	177.39	178.92	184		38.36	1.53	0.11	
121G-15	178.92	180.44	185		18.49	1.18	0.08	
121G-15	180.44	181.97	186		5.48	0.35	0.62	
121G-15	181.97	183.49	187		6.85	0.47	1.71	
121G-15	183.49	185.01	188		9.59	1.12	4.68	
121G-15	185.01	186.54	189		6.85	1.49	11.8	
121G-15	186.54	188.06	190		16.44	0.97	0.81	
121G-15	188.06	189.59	191		5.48	0.24	0.06	
121G-15	189.59	191.41	192		2.74	0.05	0.03	
121G-15	192.94	194.46	193		2.74	0.16	0.03	
121G-15	199.95	201.78	194		5.14	0.19	0.05	
121G-16	221.89	223.42	195		1.37	0.005	0.02	
121G-16	223.42	224.94	196		1.71	0.01	0.03	
121G-16	231.04	232.56	197		9.25	0.03	15.6	
121G-16	252.98	254.51	198		2.74	0.005	0.14	
121G-16	259.38	260.3	199		12.33	0.31	13.2	
121G-16	260.3	261.82	200		7.88	0.06	3.25	
121G-16	261.82	263.35	201		41.1	1.2	7.64	
121G-16	270.97	272.49	202		15.75	1.03	3.83	
121G-16	272.49	274.02	203		20.55	0.87	6.24	
121G-16	274.02	275.54	204		17.12	0.53	3.8	
121G-16	275.54	277.06	205		18.49	0.44	6.44	
121G-16	277.06	278.59	206		10.27	1.01	7.16	
121G-16	278.59	280.11	207		18.49	2.11	8.8	
121G-16	280.11	281.64	208		12.33	1.34	5.45	
121G-16	281.64	283.16	209		10.62	2.3	5.3	
121G-16	283.16	284.68	210		10.27	1.8	4.18	
121G-16	284.68	286.21	211		34.25	2.38	6.52	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
121G-16	286.21	287.73	212		23.29	1.63	3.93	
121G-16	287.73	289.26	213		19.86	1.56	0.11	
121G-16	289.26	290.78	214		21.92	0.77	0.13	
121G-16	290.78	292.3	215		8.9	2.03	0.07	
121G-16	292.3	293.83	216		3.08	0.09	0.03	
121G-16	293.83	295.35	217		3.77	0.16	0.02	
121G-16	295.35	296.88	218		2.74	0.03	0.02	
121G-16	296.88	298.4	219		1.37	0.01	0.02	
121G-16	298.4	299.92	220		2.05	0.02	0.02	
121G-16	299.92	301.45	221		3.08	0.05	0.02	
121G-16	301.45	302.97	222		3.77	0.29	0.01	
121G-16	302.97	304.5	223		1.37	0.15	0.01	
121G-16	304.5	306.02	224		2.74	0.01	0.02	
121G-16	306.02	307.54	225		2.74	0.03	0.03	
121G-17	244.75	246.28	226		13.7	1.88	0.56	
121G-17	246.28	247.8	227		10.27	1.14	6.28	
121G-17	247.8	249.33	228		15.41	0.95	3.48	
121G-17	249.33	251.16	229		10.96	1.31	4.66	
121G-17	251.16	252.83	230		1.03	0.02	0.08	
121G-17	252.83	254.36	231		8.9	5.28	0.09	
121G-17	254.36	255.88	232		10.62	6.2	0.11	
121G-17	255.88	257.4	233		12.33	7.8	0.09	
121G-17	257.4	258.17	234		13.01	10.22	0.07	
121G-17	258.17	259.69	235		4.79	2.17	0.02	
121G-17	259.69	261.21	236		7.88	4.75	0.03	
121G-17	261.21	262.74	237		3.08	0.6	0.02	
121G-18	246.89	247.8	238		41.1	0.03	2.72	
121G-18	249.94	251.46	239		39.04	0.14	15.64	
121G-18	251.46	252.98	240		15.07	0.02	4.8	
121G-18	270.66	271.27	241		9.59	0.15	9.64	
121G-18	272.8	274.32	242		37.33	0.1	9.44	
121G-18	274.32	275.84	243		21.23	0.15	8.32	
121G-18	275.84	277.37	244		16.78	0.76	1.21	
121G-18	277.37	278.89	245		2.74	0.04	0.38	
121G-18	278.89	280.42	246		2.05	0.03	0.53	
121G-18	280.42	281.94	247		13.01	2.06	0.21	
121G-18	281.94	283.46	248		6.16	1.44	0.06	
121G-18	283.46	284.99	249		2.05	0.11	0.02	
121G-18	284.99	286.51	250		3.42	0.28	0.04	
121G-18	286.51	288.04	251		4.79	0.29	0.03	
121G-18	288.04	289.56	252		14.73	2.3	0.13	
121G-18	289.56	291.08	253		5.48	0.52	0.04	
121G-18	291.08	292.61	254		3.08	0.15	0.03	
121G-18	292.61	294.13	255		8.56	0.25	0.04	
121G-18	294.13	294.74	256		3.42	0.17	0.05	
121G-18	295.96	297.48	257		2.74	0.11	0.04	
121G-18	297.48	299.01	258		2.74	0.11	0.04	
121G-18	299.01	300.53	259		3.08	0.21	0.03	
121G-18	300.53	302.06	260		3.08	0.25	0.03	
121G-18	302.06	303.58	261		3.08	0.14	0.03	
121G-19	233.17	233.78	262		11.64	0.29	2.38	
121G-19	248.41	249.63	263		2.05	0.03	0.14	
121G-20	143.87	144.78	264		0.68	0.01	0.01	
121G-20	145.39	146.15	265		0.68	0.03	0.02	
121G-20	248.41	249.94	266		8.9	0.38	6.44	
121G-20	249.94	251.46	267		17.12	2.83	2.01	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
121G-20	251.46	252.98	268		39.04	3.32	4.2	
121G-20	252.98	254.51	269		10.27	0.3	11.92	
121G-20	254.51	256.03	270		3.08	0.06	6.36	
121G-20	256.03	257.56	271		12.33	0.34	0.04	
121G-20	257.56	259.08	272		13.01	0.69	0.05	
121G-20	259.08	260.6	273		7.53	1.16	0.03	
121G-20	260.6	262.13	274		5.48	1.42	0.03	
121G-20	262.13	263.65	275		5.48	5.52	0.07	
121G-20	263.65	265.18	276		6.16	2.27	0.05	
121G-21	138.38	139.9	277				0	
121G-21	139.9	141.43	278		0.34		0	
121G-21	141.43	142.95	279				0	
121G-21	210.92	212.75	280		0.68		0	
121G-21	271.73	272.19	281		2.4	0.33	0.01	
121G-22	28.04	31.09	282				0	
121G-23	335.28	336.19	331		0.68	0.02	0.02	
121G-23	336.19	337.72	287		9.93	0.22	9.56	
121G-23	337.72	339.24	288		26.03	2.47	6.6	
121G-23	339.24	340.77	289		58.9	2.58	8.76	
121G-23	340.77	342.29	290		19.18	2.1	10.84	
121G-23	342.29	343.81	291		9.59	1.09	16.96	
121G-23	343.81	345.34	292		6.51	0.6	13.28	
121G-23	345.34	346.86	293		6.51	1.1	7.36	
121G-23	346.86	348.39	294		14.38	1.91	7.2	
121G-23	348.39	349.91	295		9.59	1.59	0.27	
121G-23	349.91	351.43	296		6.16	0.18	0.06	
121G-23	351.43	352.96	297		10.27	0.67	0.17	
121G-23	352.96	354.48	298		15.75	0.81	0.1	
121G-23	354.48	356.01	299		15.41	2.65	0.08	
121G-23	356.01	357.53	300		25.34	3.18	0.08	
121G-23	357.53	359.05	301		17.47	1.47	0.06	
121G-23	359.05	360.58	302		15.41	6.24	0.11	
121G-23	360.58	362.1	303		8.9	1.49	0.03	
121G-23	362.1	363.32	304		5.82	0.54	0.02	
121G-23	363.32	364.85	305		8.22	1.84	0.04	
121G-23	364.85	365.76	307		16.44	4.46	0.03	
121G-23	365.76	367.28	332		2.4	0.02	0.02	
121G-24	372.77	374.29	333		1.37	0.02	0.02	
121G-24	374.29	377.34	308		4.11	1.04	0.01	
121G-24	377.34	380.39	309		2.4	0.54	0.02	
121G-24	380.39	381.3	310		1.71	0.27	0.02	
121G-24	387.1	390.14	311		1.71	0.29	0.01	
121G-24	392.58	394.11	312		2.4	0.02	0.01	
121G-24	395.02	396.54	314		1.37		0	
121G-24	404.77	406.3	313		2.05	0.01	0.01	
121G-24WA	380.39	382.22	383		1.37	0.04	0.01	
121G-24WA	388.47	389.23	384		2.05	0.19	0.01	
121G-24WA	391.21	392.73	377		1.03	0.03	0.02	
121G-24WA	392.73	394.26	378		1.03	0.05	0.01	
121G-24WA	394.26	395.94	379		1.03	0.02	0.01	
121G-24WA	402.79	404.32	380		1.37	0.01	0.01	
121G-24WA	404.32	405.84	381		1.37	0.02	0.01	
121G-24WA	405.84	406.76	382		1.71	0.06	0.01	
121G-25	346.86	349.15	327		4.45	0.03	0.06	
121G-25	352.65	354.18	328		3.77	0.03	0.23	
121G-25	354.18	355.7	315		24.32	0.5	13.8	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
121G-25	355.7	357.23	316		8.22	0.2	0.92	
121G-25	357.23	358.75	317	0.34	13.7	1.49	2.61	
121G-25	358.75	360.27	318	0.34	33.22	2.17	15.7	
121G-25	360.27	361.8	319	0.34	42.47	2.81	14.4	
121G-25	361.8	363.32	320	0.34	22.95	0.88	6.44	
121G-25	363.32	364.85	321		3.42	0.66	1.87	
121G-25	364.85	366.37	322		16.1	0.78	4.54	
121G-25	366.37	367.89	323		17.47	0.11	7.8	
121G-25	367.89	369.42	324	0.34	23.63	0.27	11.1	
121G-25	369.42	370.94	325		11.3	0.23	2.88	
121G-25	370.94	372.47	326		5.14	0.63	0.04	
121G-25	372.47	375.51	329		2.4	0.19	0.03	
121G-25	375.51	378.56	330		3.08	0.18	0.03	
121G-26	220.98	222.5	349		3.77	0.03	0.87	
121G-26	222.5	224.03	350		10.96	0.29	0.94	
121G-26	224.03	224.94	351		1.37	0.01	0.04	
121G-26	224.94	226.47	352		11.64	0.59	10.2	
121G-26	226.47	227.99	353		37.67	1	5.8	
121G-26	227.99	229.51	354		66.78	0.41	3.72	
121G-26	229.51	231.04	355		26.03	0.25	4.03	
121G-26	231.04	232.56	356		34.25	0.27	4.12	
121G-26	232.56	234.7	357		27.74	0.26	3.97	
121G-26	234.7	235.92	358		2.74	0.02	0.12	
121G-26	235.92	237.44	359		9.25	3.29	0.08	
121G-26	237.44	238.96	360		4.79	1.49	0.03	
121G-26	238.96	240.49	361		3.77	0.24	0.03	
121G-26	240.49	242.01	362		3.42	0.22	0.03	
121G-26	242.01	243.08	363		2.74	0.02	0.02	
121G-27	214.27	215.19	334		3.08	0.01	0.04	
121G-27	215.19	216.71	335		29.11	0.23	10.92	
121G-27	216.71	218.24	336		8.9	0.24	4.3	
121G-27	218.24	219.76	337		10.62	0.39	7.48	
121G-27	219.76	221.28	338		10.27	1.03	2.62	
121G-27	221.28	222.81	339		15.75	0.91	5.54	
121G-27	222.81	224.33	340		32.88	2.6	4.01	
121G-27	224.33	225.48	341		37.67	2.93	6.72	
121G-27	225.48	226.16	342		2.4	0.03	0.11	
121G-27	228.6	229.51	343		1.71	0.03	0.02	
121G-27	229.51	231.04	344		3.77	0.71	0.02	
121G-27	231.04	232.56	345		3.08	0.09	0.01	
121G-27	232.56	234.09	346		4.11	0.75	0.02	
121G-27	234.09	235.61	347		3.08	0.45	0.01	
121G-27	235.61	236.22	348		2.05	0.03	0.02	
121G-28	334.98	335.58	495		1.71	0.01	0.06	
121G-28	335.58	337.95	393		18.49	1.3	5.72	
121G-28	337.95	339.7	394		1.03	0.01	0.05	
121G-28	339.7	341.22	395		9.59	0.55	8.8	
121G-28	341.22	342.75	396		28.42	1.63	5.46	
121G-28	342.75	344.27	397		34.59	2.39	8.84	
121G-28	344.27	345.8	398		17.12	0.43	19.12	
121G-28	345.8	348.08	399		13.01	0.52	7.68	
121G-28	348.08	349.61	400		7.19	0.09	0.09	
121G-28	349.61	351.13	401		1.71	0.02	0.47	
121G-28	351.13	352.65	402		1.71	0.01	0.28	
121G-28	352.65	355.7	403		2.05	0.03	0.13	
121G-28	355.7	357.23	404		3.77	0.06	0.03	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
121G-28	357.23	358.75	405		3.08	0.22	0.05	
121G-28	358.75	360.27	406		3.42	0.23	0.03	
121G-28	360.27	361.8	407		1.37	0.04	0.02	
121G-29	218.24	218.85	376		1.71	0.01	0.19	
121G-29	218.85	220.37	364		20.21	1.81	9.44	
121G-29	220.37	221.89	365		27.74	1.89	1.56	
121G-29	221.89	222.73	366		26.03	1.42	0.07	
121G-29	222.73	223.34	367		1.71	0.02	0.02	
121G-29	224.79	225.4	368		1.71	0.02	0.07	
121G-29	225.4	226.01	369		9.59	2.16	0.15	
121G-29	226.01	226.62	370		1.71	0.01	0.03	
121G-29	226.62	228.14	371		6.51	0.69	0.07	
121G-29	228.14	229.67	372		7.88	0.66	0.03	
121G-29	229.67	230.83	373		5.48	1.66	0.06	
121G-29	230.83	232.36	374		1.37	0.04	0.03	
121G-29	232.36	233.17	375		2.4	0.44	0.02	
121G-30	166.73	168.25	385		0.68	0.01	0.25	
121G-30	168.25	169.77	386		1.03	0.01	0.74	
121G-30	169.77	171.3	387		1.03	0.01	0.04	
121G-30	171.3	172.06	388		1.37	0.1	0.02	
121G-31	203	203.61	426		1.37	0.01	0.03	
121G-31	203.61	205.13	427		21.23	0.38	0.72	
121G-31	205.13	206.65	428		14.04	0.5	1.07	
121G-31	206.65	208.18	429		15.75	1.2	1.04	
121G-31	208.18	209.49	430		30.48	0.42	8.52	
121G-31	209.49	211.01	489		1.71	0.01	0.03	
121G-31	211.01	212.54	490		1.37	0.01	0.02	
121G-31	212.54	213.82	491		1.37	0.01	0.05	
121G-31	213.82	215.34	431		17.81	0.59	4.62	
121G-31	215.34	216.87	432		90.41	2.56	0.55	
121G-31	216.87	218.39	433		60.27	1.25	0.93	
121G-31	218.39	219.91	434		34.93	1.48	0.9	
121G-31	219.91	221.35	435		24.66	0.64	2.3	
121G-31	221.35	222.87	492		1.03	0.01	0.04	
121G-31	222.87	224.39	493		1.03	0.01	0.03	
121G-31	224.39	225.4	494		0.68	0.01	0.1	
121G-31	225.4	226.92	439		1.71	0.03	0.23	
121G-31	226.92	228.45	440		2.4	0.06	0.15	
121G-31	228.45	229.36	441		4.79	0.09	0.04	
121G-31	229.36	230.89	436		29.45	0.16	3.86	
121G-31	230.89	232.41	437		26.03	1.32	2.31	
121G-31	232.41	234.39	438		26.71	2.48	13.3	
121G-31	234.39	235.92	442		1.71	0.02	0.04	
121G-31	235.92	237.44	443		1.37	0.04	0.02	
121G-31	237.44	238.96	444		2.74	0.11	0.01	
121G-31	238.96	240.49	445		2.05	0.09	0.01	
121G-31	240.49	242.01	446		1.71	0.03	0.02	
121G-31	242.01	243.54	447		1.71	0.04	0.02	
121G-31	243.54	245.06	448		2.05	0.07	0.02	
121G-31	245.06	246.58	450		2.05	0.05	0.02	
121G-31	246.58	248.11	451		2.4	0.04	0.02	
121G-31	248.11	249.63	452		2.74	0.43	0.02	
121G-31	249.63	251.16	453		2.05	0.06	0.03	
121G-31	251.16	252.68	454		1.71	0.01	0.03	
121G-31	252.68	254.2	455		3.77	0.2	0.03	
121G-31	254.2	255.73	456		1.37	0.03	0.02	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
121G-31	255.73	257.25	457		2.4	0.09	0.02	
121G-31	257.25	258.17	458		2.74	0.03	0.02	
121G-31	258.17	260.15	459		2.05	0.02	0.02	
121G-31	260.15	262.43	460		1.71	0.05	0.02	
121G-31	262.43	263.96	461		1.71	0.01	0.02	
121G-31	263.96	265.48	462		1.71	0.03	0.02	
121G-33	396.24	397.76	520		1.71	0.02	0.01	
121G-33	397.76	399.29	521		2.05	0.03	0.01	
121G-33	399.29	400.81	522		1.71	0.01	0.01	
121G-33	400.81	402.34	523		1.71	0.01	0.01	
121G-33	402.34	403.86	524		1.37	0.01	0.01	
121G-33	409.35	410.87	525		2.4	0.05	0.01	
121G-33	410.87	412.39	526		5.14	0.07	0.01	
121G-33	412.39	413.92	527		3.08	0.03	0.02	
121G-33	413.92	415.44	528		3.08	0.01	0.01	
121G-33	415.44	416.97	529		2.05	0.05	0.01	
121G-33	416.97	418.49	530		2.05	0.06	0.01	
121G-34	23.93	25.45	496	0.34	2.05	0.01	0.01	
121G-34	25.45	26.97	497		1.71	0.01	0.01	
121G-34	26.97	28.5	498		1.03	0.01	0.01	
121G-34	28.5	30.02	499		1.03	0.01	0.01	
121G-34	30.02	31.55	500		41.1	0.01	0.01	
121G-34	31.55	33.07	501		1.03	0.02	0.01	
121G-34	33.07	34.59	502		0.68	0.01	0.01	
121G-34	34.59	36.12	503		1.03	0.01	0.01	
121G-34	36.12	37.64	504		0.68	0.01	0.01	
121G-34	37.64	39.17	505		0.68	0.01	0.01	
121G-34	39.17	40.69	506		0.34	0.01	0.01	
121G-34	40.69	42.21	507		0.34	0.01	0.01	
121G-34	42.21	43.74	508		0.34	0.01	0.01	
121G-34	43.74	45.26	509		0.34	0.01	0.01	
121G-34	45.26	46.79	510		0.68	0.01	0.01	
121G-34	46.79	48.31	511		0.34	0.01	0.01	
121G-34	48.31	49.83	512		0.34	0.01	0.01	
121G-34	49.83	51.36	513		0.34	0.01	0.01	
121G-34	51.36	52.88	514		0.68	0.01	0.01	
121G-34	52.88	54.41	515		0.68	0.01	0.01	
121G-34	54.41	55.93	516		0.68	0.01	0.01	
121G-34	55.93	57.45	517		0.68	0.01	0.02	
121G-34	57.45	58.98	518		0.68	0.01	0.01	
121G-34	58.98	60.5	519		1.03	0.01	0.01	
121G-34	500.79	502.31	584		2.4	0.02	1.57	
121G-34	502.31	503.83	585		6.16	0.11	18.6	
121G-34	503.83	505.36	586		4.11	0.25	15.4	
121G-34	505.36	506.88	587		13.36	0.06	15.3	
121G-34	506.88	508.41	588		4.45	0.09	3.2	
121G-34	508.41	509.93	589	0	8.9	0.25	4.04	
121G-34	509.93	511.45	590		5.14	0.09	1.31	
121G-34	511.45	512.98	591		2.74	0.03	0.7	
121G-34	512.98	514.5	592		14.38	0.31	3.88	
121G-34	514.5	516.03	593		1.71	0.01	0.52	
121G-34	516.03	517.55	594		2.05	0.01	0.08	
121G-34	517.55	519.07	595		4.11	0.06	0.31	
121G-34	519.07	520.6	596		4.79	0.04	0.03	
121G-34	520.6	522.12	597		4.45	0.22	0.07	
121G-34	522.12	523.65	598		3.77	0.11	0.03	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
121G-34	523.65	525.17	599		2.05	0.01	0.01	
121G-34	525.17	526.69	600		2.74	0.13	0.02	
121G-34	526.69	528.22	601		6.16	0.86	0.01	
121G-34	528.22	529.74	602		6.16	1.02	0.01	
121G-34	529.74	531.27	603		5.14	0.42	0.01	
121G-34	531.27	532.79	604		2.74	0.23	0.01	
121G-34	532.79	534.31	605		3.08	0.82	0.01	
121G-34	534.31	535.84	607		3.77	0.49	0.01	
121G-34	535.84	537.36	608		1.03	0.01	0.02	
121G-34	537.36	538.89	609		2.4	0.37	0.02	
121G-34	538.89	540.41	610		2.4	0.32	0.01	
121G-34	540.41	541.93	611		3.42	0.48	0.02	
121G-34	541.93	543.46	612		2.74	0.32	0.01	
121G-34	543.46	544.98	613		3.42	0.28	0.01	
121G-34	544.98	546.51	614		2.05	0.03	0.02	
121G-34	546.51	548.03	615		1.37	0.01	0.01	
121G-34	548.03	549.55	616		2.05	0.17	0.02	
121G-34	549.55	551.08	617		5.14	0.29	0.02	
121G-34	551.08	552.6	618		4.79	0.22	0.03	
121G-34	552.6	554.13	619		2.4	0.01	0.01	
121G-34	554.13	555.65	620		2.4	0.03	0.01	
121G-34	555.65	557.17	621		1.71	0.02	0.01	
121G-34	557.17	558.7	622		3.08	0.04	0.01	
121G-34	558.7	560.22	623		6.51	0.45	0.02	
121G-34	560.22	561.75	624		2.74	0.11	0.01	
121G-34	561.75	563.27	625		5.82	0.28	0.01	
121G-34	563.27	564.79	626		3.42	0.55	0.02	
121G-34	564.79	566.32	627		3.42	0.3	0.02	
121G-34	566.32	567.84	628		3.77	0.73	0.01	
121G-34	567.84	569.37	629		2.4	0.01	0.02	
121G-34	569.37	570.89	630		1.71	0.11	0.03	
121G-34	570.89	572.41	631		2.4	0.14	0.02	
121G-34	572.41	573.94	632		2.4	0.05	0.02	
121G-34	573.94	575.46	633		3.42	0.03	0.02	
121G-34	575.46	576.99	634		3.77	0.01	0.02	
121G-34	576.99	578.51	635		1.37	0.01	0.02	
121G-34	578.51	580.03	636		1.03	0.01	0.01	
121G-34	580.03	581.56	637				0	
121G-35	122.22	123.75	469		1.71	0.01	0.09	
121G-35	123.75	125.27	470		2.05	0.01	0.1	
121G-35	125.27	127.1	471		1.37	0.01	0.08	
121G-35	127.1	128.02	472		1.37	0.02	0.29	
121G-35	132.59	133.75	473		1.03	0.01	0.03	
121G-35	133.75	135.03	474		5.14	0.04	1.08	
121G-35	135.03	136.73	475		24.66	0.37	3.55	
121G-35	136.73	138.38	476		14.04	0.03	0.06	
121G-35	138.38	139.9	477		27.4	0.17	1.25	
121G-35	139.9	141.43	478		35.62	0.14	0.1	
121G-35	141.43	142.95	479		5.82	0.09	0.03	
121G-35	142.95	144.48	480		4.11	0.08	0.03	
121G-35	144.48	146	481		9.59	0.35	0.03	
121G-35	146	147.52	482		13.7	0.37	0.03	
121G-35	147.52	149.05	483		14.73	0.48	0.04	
121G-35	149.05	150.57	484		8.22	0.37	0.05	
121G-35	150.57	152.1	485		5.14	0.69	0.03	
121G-35	152.1	153.62	486		3.08	0.13	0.02	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
121G-35	153.62	154.84	487		4.45	0.35	0.03	
121G-36	305.87	306.78	570		4.11	0.01	0.08	
121G-36	306.78	308.31	571		2.05	0.05	2.84	
121G-36	308.31	309.83	572		3.08	0.03	1.38	
121G-36	309.83	311.35	573		2.4	0.01	0.12	
121G-36	311.35	312.88	574		1.71	0.04	2.15	
121G-36	312.88	314.4	575		3.08	0.03	0.56	
121G-36	314.4	315.93	576		2.05	0.01	0.01	
121G-36	315.93	317.45	577		4.45	0.01	0.01	
121G-36	317.45	318.97	578		2.4	0.04	0.02	
121G-36	318.97	320.5	579		2.74	0.03	0.01	
121G-36	320.5	322.02	580		2.05	0.03	0.02	
121G-36	322.02	323.55	581		3.08	0.04	0.02	
121G-36	323.55	325.07	582		1.71	0.03	0.02	
121G-36	325.07	327.36	583		2.05	0.09	0.02	
121G-37	282.7	284.23	531		1.37	0.01	0.04	
121G-37	284.23	285.75	532		1.71	0.01	0.04	
121G-37	285.75	287.27	533		28.08	0.74	3.52	
121G-37	287.27	288.65	534		19.86	0.73	4.3	
121G-37	288.65	290.17	535		1.71	0.01	0.02	
121G-37	290.17	291.69	536		1.71	0.02	0.08	
121G-37	291.69	293.22	537		1.71	0.01	0.02	
121G-37	293.22	294.74	538		1.37	0.02	0.05	
121G-37	294.74	296.27	539		1.03	0.01	0.02	
121G-37	296.27	298.55	540		1.03	0.01	0.03	
121G-37	298.55	300.08	541	0	8.56	1.67	2.45	
121G-37	300.08	301.6	542		13.36	2.72	0.17	
121G-37	301.6	303.12	543		30.14	1.69	2.34	
121G-37	303.12	304.65	544		50.68	0.76	1.48	
121G-37	304.65	306.17	545		98.63	3.41	2.37	
121G-37	306.17	307.7	546		43.49	2.07	7.12	
121G-37	307.7	309.22	547		16.1	0.35	1.78	
121G-37	309.22	310.74	548		3.42	0.01	0.05	
121G-37	310.74	312.27	549		3.08	0.01	0.04	
121G-37	312.27	313.79	550		3.08	0.04	0.02	
121G-37	313.79	315.32	551		3.77	0.12	0.03	
121G-37	315.32	316.84	552		3.42	0.08	0.02	
121G-37	316.84	318.36	553		2.74	0.04	0.02	
121G-37	318.36	319.89	554		2.4	0.06	0.02	
121G-37	319.89	321.41	555		2.74	0.1	0.02	
121G-37	321.41	322.94	556		3.42	0.11	0.02	
121G-37	322.94	324.46	557		3.77	0.13	0.02	
121G-37	324.46	325.98	558		3.42	0.12	0.02	
121G-37	325.98	327.51	559		3.08	0.06	0.02	
121G-37	327.51	329.03	560		3.77	0.06	0.02	
121G-37	329.03	330.56	561		1.37	0.01	0.01	
121G-37	330.56	332.08	562		4.79	0.1	0.02	
121G-37	332.08	333.6	563		2.74	0.33	0.02	
121G-37	333.6	335.13	564		2.4	0.02	0.03	
121G-37	335.13	336.65	565		3.08	0.05	0.03	
121G-37	336.65	338.18	566		3.08	0.1	0.02	
121G-37	338.18	339.7	567		2.74	0.14	0.03	
121G-37	339.7	341.22	568		3.08	0.09	0.02	
121G-37	341.22	342.9	569		2.4	0.01	0.03	
121G-38	590.32	591.31	660		2.4	0.05	0.01	
121G-38	598.32	599.85	699		2.4	0.08	0.01	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
121G-38	599.85	601.37	700		2.4	0.08	0.01	
121G-38	601.37	602.89	701		2.05	0.05	0.01	
121G-38	602.89	604.42	702		1.03	0.01	0.01	
121G-38	604.42	605.94	703		1.03	0.02	0.01	
121G-38	605.94	606.86	704		2.05	0.02	0.01	
121G-39	433.73	435.25	652		2.05	0.01	0.02	
121G-39	435.25	437.39	653		2.05	0.01	0.04	
121G-39	437.39	438.91	654		27.05	0.37	4.76	
121G-39	438.91	440.13	655		23.29	0.25	6.92	
121G-39	440.13	441.5	656		3.77	0.09	0.35	
121G-39	441.5	442.87	657		2.4	0.23	8.75	
121G-39	442.87	444.09	658		34.93	0.011	0.78	
121G-39	444.09	445.01	659		2.05	0.01	0.1	
121G-39	505.05	505.89	661		2.05	0.01	0.03	
121G-39	505.89	507.19	662		2.05	0.01	0.47	
121G-39	507.19	508.71	663		1.71	0.01	0.19	
121G-39	508.71	510.24	664		1.37	0.01	0.05	
121G-39	510.24	511.76	665		0.68	0.01	0.07	
121G-39	511.76	513.28	666		1.03	0.01	0.1	
121G-39	513.28	514.81	667		1.37	0.01	0.18	
121G-39	514.81	516.33	668		1.03	0.01	0.04	
121G-39	516.33	517.86	669		3.77	0.01	0.12	
121G-39	517.86	519.38	670		1.03	0.01	0.03	
121G-39	519.38	520.9	671		0.68	0.01	0.02	
121G-39	520.9	522.43	672		0.34	0.01	0.03	
121G-39	522.43	523.95	673		1.03	0.01	0.02	
121G-39	523.95	525.48	674		1.03	0.01	0.02	
121G-39	525.48	527	675		0.68	0.01	0.02	
121G-39	527	528.52	676		0.68	0.01	0.01	
121G-39	528.52	530.05	677		1.03	0.01	0.07	
121G-39	530.05	531.57	678		1.03	0.01	0.54	
121G-39	531.57	533.1	679		1.37	0.01	0.03	
121G-39	533.1	534.62	680		1.03	0.02	0.03	
121G-39	534.62	536.14	681		2.4	0.16	0.03	
121G-39	536.14	537.67	682		4.11	0.56	0.02	
121G-39	537.67	539.19	683		14.04	0.11	0.02	
121G-39	539.19	540.72	684		3.42	0.57	0.05	
121G-39	540.72	542.24	685		1.71	0.01	0.02	
121G-39	542.24	543.76	686		1.03	0.01	0.02	
121G-39	543.76	545.29	687		1.03	0.01	0.01	
121G-39	545.29	546.81	688		1.03	0.01	0.02	
121G-39	546.81	548.34	689		1.71	0.25	0.03	
121G-39	548.34	549.86	690		2.05	0.16	0.04	
121G-39	549.86	551.38	691		1.37	0.06	0.34	
121G-39	551.38	552.91	692		2.74	0.3	0.03	
121G-39	552.91	554.43	693		2.05	0.25	0.95	
121G-39	554.43	555.96	694		33.9	0.36	0.1	
121G-39	555.96	557.48	695		4.11	0.02	0.04	
121G-39	557.48	559	696		2.05	0.16	0.03	
121G-39	559	559.92	697		1.37	0.01	0.02	
121G-39WA	433.12	434.04	705		1.03	0.01	0.04	
121G-39WA	434.04	435.56	706		1.37	0.01	0.09	
121G-39WA	435.56	437.08	707		2.74	0.02	0.65	
121G-39WA	437.08	438.61	708		1.37	0.01	0.03	
121G-39WA	438.61	439.52	709		2.4	0.04	0.03	
121G-40	134.72	136.09	637A		2.05	0.01	0.06	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
121G-40	136.09	137.62	638		11.64	0.06	0.3	
121G-40	137.62	139.14	639		9.25	0.02	1.37	
121G-40	139.14	140.67	640		15.75	0.17	1.83	
121G-40	140.67	142.19	641		9.93	0.12	3.78	
121G-40	142.19	143.71	642		20.55	0.39	0.81	
121G-40	143.71	144.78	643		49.66	0.77	9.5	
121G-40	144.78	146.3	644		1.71	0.01	0.02	
121G-40	146.3	147.37	646		6.85	0.43	2.88	
121G-40	147.37	148.89	647		4.79	0.14	1.31	
121G-40	148.89	149.35	648		4.11	0.17	0.81	
121G-40	149.35	150.88	649		1.03	0.02	0.04	
121G-40	150.88	152.4	650		1.03	0.02	0.03	
121G-40	152.4	153.92	651		4.11	0.43	0.03	
121G-41	713.23	714.76	710		0.34		0	
121G-41	729.08	730	711		0.68	0.01	0.02	
121G-41	730	731.52	712		1.03	0.01	0.21	
121G-41	731.52	733.04	713		1.03	0.01	0.28	
121G-41	733.04	734.57	714		0.68	0.01	0.02	
121G-41	734.57	736.09	715		3.08	0.07	0.07	
121G-41	736.09	737.62	716		2.4	0.02	0.02	
121G-41	737.62	739.14	717		3.08	0.04	0.12	
121G-41	739.14	740.66	718		2.74	0.25	0.04	
121G-41	740.66	742.19	719		3.08	0.34	0.04	
121G-41	742.19	743.71	720				0	
121G-41	743.71	745.24	721		3.08	0.01	0.46	
121G-41	745.24	745.85	722		2.05	0.01	0.07	
121G-41	769.62	770.23	723		2.74	0.17	0.58	
121G-41	770.23	771.75	724		1.71	0.01	0.78	
121G-41	771.75	773.28	725		2.74	0.01	0.04	
121G-41	773.28	774.8	726		1.71	0.09	1.31	
121G-41	774.8	776.33	727		1.37	0.01	0.02	
121G-41	776.33	777.85	728		1.37	0.01	0.03	
121G-41	777.85	779.98	729		7.19	0.53	0.06	
121G-41	779.98	780.59	730		4.11	0.04	0.03	
121G-42	369.42	369.72	731		13.36	0.1	5.02	
121G-42	414.38	415.29	732		1.71	0.01	0.08	
121G-42	415.29	416.81	733		19.18	0.35	19.9	
121G-42	416.81	418.8	734		18.84	0.93	2.61	
121G-42	418.8	420.32	735		5.82	0.02	0.54	
121G-42	420.32	421.84	736		19.52	2.64	0.1	
121G-42	421.84	423.37	737		34.93	2.65	0.09	
121G-42	423.37	424.89	738		10.27	0.8	0.04	
121G-42	424.89	426.42	739		11.99	1.39	0.06	
121G-42	426.42	427.94	740		8.22	0.93	0.04	
121G-42	427.94	429.46	741		3.08	0.17	0.03	
121G-42	429.46	430.99	742		2.74	0.05	0.03	
121G-42	430.99	432.51	743		2.4	0.09	0.04	
121G-42	432.51	434.04	744		2.4	0.09	0.04	
121G-42	434.04	435.56	745		3.77	0.17	0.04	
121G-42	435.56	437.08	746		5.14	0.24	0.05	
121G-42	437.08	438.61	747		2.4	0.15	0.02	
121G-42	438.61	440.13	748		5.48	0.69	0.03	
121G-42	440.13	441.66	749		4.11	0.51	0.03	
121G-43	437.08	438.61	750		3.42	0.3	0.04	
121G-43	438.61	440.13	751		4.79	0.39	0.02	
121G-43	440.13	441.66	752		4.45	0.19	0.02	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
121G-43	441.66	443.18	753		3.08	0.12	0.02	
121G-43	443.18	444.7	758		2.74	0.02	0.01	
121G-43	444.7	446.23	754		5.48	0.01	0.01	
121G-43	446.23	447.75	755		4.79	0.01	0.01	
121G-43	447.75	449.28	756		2.4	0.15	0.01	
121G-43	449.28	450.8	757		2.4	0.21	0.01	
121G-43	450.8	452.32	759		4.45	0.33	0.02	
121G-43	452.32	453.85	760		4.79	0.38	0.02	
121G-43	453.85	455.37	761		6.16	0.11	0.02	
121G-43	455.37	456.9	762		4.45	0.2	0.01	
121G-43	456.9	458.42	763		2.05	0.29	0.02	
121G-43	458.42	459.94	764		2.05	0.23	0.02	
121G-43	459.94	461.47	765		2.4	0.97	0.02	
121G-43	461.47	462.99	766		1.37	0.31	0.01	
121G-43	462.99	464.52	767		1.03	0.01	0.02	
121G-43	464.52	466.04	768				0	
121G-43	466.04	467.56	769		1.71	0.02	0.02	
121G-43	467.56	469.09	770		11.64	0.43	0.02	
121G-43	469.09	470.61	771		19.86	2.13	0.02	
121G-43	470.61	470.92	2030		1.71	1.12	0.01	
121G-43	470.92	472.44	2031		1.03	0.12	0.01	
PD1-76-01	42.06	43.59	37501		2.05	0.05	0.18	
PD1-76-01	49.99	51.82	37502		13.01	0.4	2.89	
PD1-76-01	51.82	53.34	37503		13.01	0.42	1.03	
PD1-76-01	53.34	54.86	37504		27.74	2.72	0.38	
PD1-76-01	54.86	56.39	37505		44.18	1.81	4.66	
PD1-76-01	56.39	57.91	37506		29.45	1.84	2.67	
PD1-76-01	57.91	60.2	37507		15.07	0.26	10.2	
PD1-76-01	60.2	61.87	37508		2.05	0.03	0.13	
PD1-76-01	61.87	62.48	37509		13.01	0.12	5.17	
PD1-76-01	62.48	64.01	37510		15.07	0.25	0.5	
PD1-76-01	64.01	65.53	37511		16.44	0.35	0.12	
PD1-76-01	65.53	67.06	37512		9.25	0.14	0.43	
PD1-76-01	67.06	68.58	37513		13.01	0.59	0.11	
PD1-76-01	68.58	70.1	37514		15.07	0.42	0.6	
PD1-76-01	70.1	71.63	37515		9.25	0.83	4.82	
PD1-76-01	71.63	73.15	37516		16.44	0.46	0.67	
PD1-76-01	73.15	74.68	37517		13.01	0.3	2.8	
PD1-76-01	74.68	75.59	37518		15.07	0.89	0.17	
PD1-76-01	81.23	81.84	37519		5.48	0.52	0.2	
PD1-76-02	50.6	51.82	37520		32.88	0.99	1.83	
PD1-76-02	51.82	53.34	37521		27.05	0.64	3.21	
PD1-76-02	53.34	54.41	37522		27.05	0.33	5.98	
PD1-76-02	54.41	55.47	37523		3.77	0.03	0.17	
PD1-76-02	55.47	57	37524		30.82	0.53	2.42	
PD1-76-02	57	58.52	37525		22.95	0.63	0.39	
PD1-76-02	58.52	60.2	37526		3.77	0.03	0.13	
PD1-76-02	60.2	60.96	37527		11.64	0.18	8.55	
PD1-76-02	60.96	62.48	37528		17.12	0.82	6.68	
PD1-76-02	62.48	64.01	37529		17.12	0.53	11.94	
PD1-76-02	64.01	65.53	37530		11.64	0.49	2.22	
PD1-76-02	65.53	67.06	37531		7.53	0.14	4.44	
PD1-76-02	67.06	68.58	37532		13.7	2.32	2.33	
PD1-76-02	68.58	70.1	37533		11.64	0.5	1.99	
PD1-76-02	70.1	71.02	37534		13.7	0.68	0.8	
PD1-76-02	71.02	71.63	37535		15.41	1.08	0.11	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
PD1-76-02	71.63	73.15	37536		17.12	1.04	2.74	
PD1-76-02	73.15	74.68	37537		15.75	1.47	2.49	
PD1-76-02	74.68	76.2	37538		11.64	0.64	3.05	
PD1-76-02	76.2	77.72	37539		7.53	0.12	1.09	
PD1-76-02	77.72	79.25	37540		3.77	0.14	0.09	
PD1-76-02	79.25	80.77	37541		5.48	0.27	0.12	
PD1-76-02	80.77	82.3	37542		5.48	0.5	0.08	
PD1-76-02	82.3	83.82	37543		5.48	0.29	0.15	
PD1-76-02	83.82	85.34	37544		7.53	0.46	0.12	
PD1-76-02	85.34	86.87	37545		15.41	1.25	0.29	
PD1-76-02	86.87	88.39	37546		1.71	0.07	0.49	
PD1-76-02	88.39	89.92	37547		3.08	0.08	1.82	
PD1-76-02	89.92	91.44	37548		1.37	0.04	0.21	
PD1-76-02	91.44	92.96	37549		5.14	0.38	0.18	
PD1-76-02	92.96	93.73	37550		3.08	0.27	0.25	
PD1-76-03	59.59	60.96	37551		5.14	0.12	21.85	
PD1-76-03	60.96	62.48	37552		68.15	1.22	5.3	
PD1-76-03	62.48	64.01	37553		68.15	1.31	4.6	
PD1-76-03	64.01	65.53	37554		49.32	1.78	2.83	
PD1-76-03	65.53	67.06	37555		11.99	0.56	4.54	
PD1-76-03	67.06	68.58	37556		13.7	1.1	5.82	
PD1-76-03	68.58	70.1	37557		51.03	1.93	4.53	
PD1-76-03	70.1	71.63	37558		20.21	1.81	3.91	
PD1-76-03	71.63	73.15	37559		13.7	0.93	3.4	
PD1-76-03	73.15	74.68	37560		18.84	1.64	4.26	
PD1-76-03	74.68	76.2	37561		23.97	1.23	0.3	
PD1-76-03	76.2	77.72	37562		15.41	1.09	1.11	
PD1-76-03	77.72	79.25	37563		18.84	1.54	0.54	
PD1-76-03	79.25	80.77	37564		16.78	0.33	0.91	
PD1-76-03	80.77	82.3	37565		10.27	0.46	1.67	
PD1-76-03	82.3	83.82	37566		13.7	0.97	1.49	
PD1-76-03	83.82	85.34	37567		8.56	1.07	0.58	
PD1-76-03	85.34	86.87	37568		3.42	0.32	0.41	
PD1-76-03	86.87	88.09	37569		3.42	0.19	0.1	
PD1-76-04	62.94	64.01	37570		27.05	0.93	2.91	
PD1-76-04	64.01	65.53	37571		25.68	1.32	1.83	
PD1-76-04	65.53	67.06	37572		6.51	0.21	9.53	
PD1-76-04	67.06	68.58	37573		13.36	0.35	9.18	
PD1-76-04	68.58	70.1	37574		10.27	0.33	1.2	
PD1-76-04	70.1	71.63	37575		8.56	0.22	5.95	
PD1-76-04	71.63	73.15	37576		13.36	0.35	2.69	
PD1-76-04	73.15	74.68	37577		18.84	1.14	3.03	
PD1-76-04	74.68	76.2	37578		27.05	1.62	1.79	
PD1-76-04	76.2	78.03	37579		5.14	0.31	12	
PD1-84-01	570.59	571.2	3674					
PD1-84-01	573.33	574.24	3675	0.14	3	0.102	1.964	
PD1-84-01	574.24	575.16	3676	0.21	3	0.042	1.184	
PD1-84-01	575.16	575.77	3677	0.14	2	0.034	1.176	
PD1-84-01	575.77	576.38	3678	0.17	3	0.04	1.376	
PD1-84-01	576.38	577.44	3679	0.21	2	0.032	1.31	
PD1-84-01	577.75	578.36	3680	0.14	2	1.81	0.279	
PD1-84-01	578.36	578.97	3681	0.21	1	0.021	0.552	
PD1-84-01	578.97	579.88	3682	0.17	2	0.03	0.726	
PD1-84-01	579.88	580.49	3683	0.17	2	0.033	0.922	
PD1-84-01	580.49	581.1	3684	0.17	2	0.01	0.05	
PD1-84-01	581.1	581.71	3685	0.21	2	0.137	0.07	

Assays: Historical Drillholes								
HOLE-ID	FROM	TO	SAMPLE NO	AU GPT	AG PPM	CU %	ZN %	SG
PD1-84-01	581.71	582.63	3686	0.21	3	0.055	0.546	
PD1-84-01	582.63	583.69	3687	0.17	2	0.021	0.788	
PD1-84-01	583.69	584.61	3688	0.24	2	0.022	1.454	
PD1-84-01	584.61	585.52	3689	0.17	1	0.027	1.684	
PD1-84-04	418.49	419.4	1812		3	0.09	0.025	
PD1-84-04	419.4	419.86	72079M		0.2	0.035	0.011	
PD1-84-04	419.86	420.47	1813	0.1	6	0.84	0.013	
PD1-84-04	420.47	421.8	72080M		0.4	0.088	0.016	
PD1-84-04	421.8	423.1	72081M		0.9	0.131	0.015	
PD1-84-04	423.1	424.59	72082M		0.5	0.063	0.017	
PD1-84-04	424.59	425.5	1814		2	0.14	0.018	
PD1-84-04	436.58	437.08	72083M		1.7	1.03	0.013	
PD1-84-04	437.08	437.39	1815	0.14	9	3.09	0.009	
PD1-84-04	437.39	437.79	72084M		1.3	0.8	0.01	
PD1-84-04	437.79	438.29	72085M		0.05	0.034	0.008	
PD1-84-04	440.24	440.74	72086M		0.4	0.158	0.011	
PD1-84-04	440.74	441.66	1816	0.07	7	4.52	0.017	
PD1-84-04	441.66	442.87	72087M		0.2	0.064	0.013	
PD1-84-04	442.87	443.18	1817		3	1.62	0.014	
PD1-84-04	443.18	444.09	72088M		0.4	0.227	0.012	
PD1-84-04	444.09	445.01	1818		3	0.99	0.01	
PD1-84-04	445.01	445.92	1819	0.14	5	0.64	0.009	
PD1-84-04	445.92	446.42	72089M		0.3	0.115	0.011	
PD1-84-04	504.2	505.7	72090M		0.05	0.001	0.03	
PD1-84-04	505.7	506.2	72091M		1.7	0.001	0.033	
PD1-84-04	506.2	507.7	72092M		0.2	0.001	0.061	
PD1-84-04	507.7	509.2	72093M		0.6	0.001	0.185	
PD1-84-04	509.2	510.7	72094M		0.7	0.001	0.077	
PD1-84-04	510.7	511.7	72095M		0.05	0.001	0.064	
PD1-84-05	57	57.45	1896		2	0.021	0.018	
PD1-84-05	63.09	63.86	1897		3	0.082	0.017	
PD1-84-05	459.33	459.64	1829	0.07	2	0.015	0.027	
PD1-84-05	463.6	463.75	1830	0.1	2	0.006	0.162	
PD1-84-05	465.28	465.58	1831	0.14	2	0.005	0.038	
PD1-84-05	467.35	467.65	1832	0.14	2	0.004	0.026	
PD1-84-05	471.53	471.83	1833	0.1	2	0.014	0.015	
PD1-84-06	38.62	39.07	16324	0.1	2	0.028	0.022	
PD1-84-06	39.07	39.93	16325	0.1	2	0.016	0.059	
PD1-84-06	39.93	40.62	16326	0.14	1	0.021	0.023	
PD1-84-06	41.44	42.91	16327	0.1	2	0.019	0.03	
PD1-84-06	45.77	46.19	16328	0.07	2	0.015	0.46	
PD1-84-06	46.19	46.52	16329	0.1	1	0.025	0.25	
PD1-84-06	47.24	48.46	16330	0.14	2	0.015	0.17	
PD1-84-06	51.71	52.66	16331	0.1	2	0.013	0.05	
PD1-84-06	52.66	52.89	16314		4	0.102	0.62	
PD1-84-06	53.81	54	16332	0.1	4	0.129	0.61	
PD1-84-06	55.18	56	16333	0.1	2	0.02	0.099	
PD1-84-06	56	56.86	16334	0.1	1	0.031	0.108	
PD1-84-06	152.62	154.53	16320	0.03	3	0.019	0.014	
PD1-84-06	155.15	155.91	16321	0.07	4	0.024	0.26	
PD1-84-06	269.91	271.36	16323	0.14				
PD1-84-06	288.88	289.07	16336	0.14				

Upper zone: 2 meters composite , the excess length was divided in equal part and add to the other composites

HOLE-ID	FROM (metres)	TO (metres)	LENGTH (metres)	ZN %	CU %	PB %	AG GPT	AU GPT	SG	ZONE
121G-01	52.58	54.94	2.36	12.32	1.50	0.01	22.95	0.34	3.96	PD Upper
121G-01	54.94	57.30	2.36	7.95	1.27	0.01	42.57	0.34	3.96	PD Upper
121G-02	92.05	95.10	3.05	21.32	0.71	0.01	37.11	0.00	3.96	PD Upper
121G-03	95.25	97.54	2.29	1.84	0.08	0.01	5.24	0.00	3.96	PD Upper
121G-03	97.54	99.82	2.29	2.33	0.05	0.01	6.15	0.00	3.96	PD Upper
121G-04	97.54	100.08	2.54	19.02	0.12	0.01	10.42	0.00	3.96	PD Upper
121G-04	100.08	102.62	2.54	4.76	0.32	0.01	12.17	0.07	3.96	PD Upper
121G-04	102.62	105.16	2.54	2.83	0.76	0.01	18.49	0.14	3.96	PD Upper
121G-05	106.68	108.97	2.29	4.33	1.06	0.01	66.60	0.45	3.96	PD Upper
121G-05	108.97	111.25	2.29	5.52	0.34	0.01	16.48	0.00	3.96	PD Upper
121G-08	178.61	180.90	2.29	6.97	0.51	0.01	13.91	0.00	3.96	PD Upper
121G-08	180.90	183.19	2.29	2.93	1.40	0.01	13.95	0.00	3.96	PD Upper
121G-08	183.19	185.47	2.29	6.46	1.75	0.01	21.35	0.00	3.96	PD Upper
121G-08	185.47	187.76	2.29	1.62	1.53	0.01	18.83	0.00	3.96	PD Upper
121G-10	170.99	173.28	2.29	4.74	0.16	0.01	11.40	0.00	3.35	PD Upper
121G-10	173.28	175.56	2.29	3.77	0.13	0.01	10.05	0.00	3.35	PD Upper
121G-15	172.82	175.87	3.05	6.10	1.40	0.01	14.54	0.00	3.96	PD Upper
121G-16	259.38	263.35	3.97	7.25	0.56	0.01	21.71	0.00	3.35	PD Upper
121G-17	244.75	246.89	2.14	2.18	1.67	0.01	12.73	0.00	3.96	PD Upper
121G-17	246.89	249.02	2.14	4.79	1.04	0.01	13.00	0.00	3.61	PD Upper
121G-17	249.02	251.16	2.14	4.51	1.27	0.01	11.51	0.00	3.87	PD Upper
121G-18	249.94	252.98	3.04	10.22	0.08	0.01	27.06	0.00	3.96	PD Upper
121G-20	248.41	250.95	2.54	4.68	1.35	0.01	12.17	0.00	3.35	PD Upper
121G-20	250.95	253.49	2.54	5.31	2.62	0.01	28.86	0.00	3.35	PD Upper
121G-20	253.49	256.03	2.54	8.59	0.16	0.01	5.97	0.00	3.35	PD Upper
121G-23	336.19	338.48	2.29	8.58	0.96	0.01	15.26	0.00	3.96	PD Upper
121G-23	338.48	340.76	2.29	8.04	2.54	0.01	47.93	0.00	3.96	PD Upper
121G-23	340.76	343.05	2.29	12.87	1.77	0.01	16.11	0.00	3.96	PD Upper
121G-23	343.05	345.34	2.29	14.50	0.76	0.01	7.53	0.00	3.96	PD Upper
121G-23	345.34	347.62	2.29	7.32	1.37	0.01	9.14	0.00	3.96	PD Upper
121G-23	347.62	349.91	2.29	3.04	1.72	0.01	11.50	0.00	3.32	PD Upper
121G-26	224.94	227.38	2.44	8.56	0.74	0.01	21.35	0.00	3.96	PD Upper
121G-26	227.38	229.82	2.44	4.28	0.54	0.01	54.33	0.00	3.96	PD Upper
121G-26	229.82	232.26	2.44	4.08	0.26	0.01	30.14	0.00	3.96	PD Upper
121G-26	232.26	234.70	2.44	3.99	0.26	0.01	28.54	0.00	3.96	PD Upper
121G-27	215.19	217.25	2.06	9.19	0.23	0.01	23.83	0.00	3.96	PD Upper
121G-27	217.25	219.31	2.06	5.95	0.32	0.01	9.79	0.00	3.96	PD Upper
121G-27	219.31	221.36	2.06	3.81	0.88	0.01	10.57	0.00	3.96	PD Upper
121G-27	221.36	223.42	2.06	5.09	1.41	0.01	20.84	0.00	3.96	PD Upper
121G-27	223.42	225.48	2.06	5.52	2.78	0.01	35.56	0.00	3.96	PD Upper
121G-28	335.00	337.95	2.95	4.75	1.08	0.01	15.60	0.00	3.25	PD Upper
121G-29	218.85	222.73	3.88	4.32	1.76	0.01	24.42	0.00	3.96	PD Upper
121G-31	213.82	216.33	2.51	3.01	1.37	0.01	46.45	0.00	3.96	PD Upper
121G-31	216.33	218.84	2.51	0.84	1.57	0.01	62.21	0.00	3.96	PD Upper
121G-31	218.84	221.35	2.51	1.70	1.00	0.01	29.04	0.00	3.96	PD Upper
121G-34	502.31	504.34	2.03	17.79	0.15	0.01	5.64	0.00	3.96	PD Upper
121G-34	504.34	506.37	2.03	15.35	0.16	0.01	8.72	0.00	3.96	PD Upper
121G-34	506.37	508.41	2.03	6.22	0.08	0.01	6.67	0.00	3.96	PD Upper
121G-34	508.41	510.44	2.03	3.44	0.21	0.01	8.06	0.00	3.80	PD Upper
121G-34	510.44	512.47	2.03	1.00	0.06	0.01	3.94	0.00	3.35	PD Upper
121G-34	512.47	514.50	2.03	3.08	0.24	0.01	11.45	0.00	3.35	PD Upper
121G-35	135.03	136.73	1.70	3.55	0.37	0.01	24.66	0.00	3.35	PD Upper
121G-36	306.78	309.83	3.05	2.11	0.04	0.01	2.56	0.00	3.35	PD Upper

Upper zone: 2 meters composite , the excess length was divided in equal part and add to the other composites

HOLE-ID	FROM (metres)	TO (metres)	LENGTH (metres)	ZN %	CU %	PB %	AG GPT	AU GPT	SG	ZONE
121G-37	285.75	288.65	2.90	3.89	0.74	0.01	24.17	0.00	3.35	PD Upper
121G-40	140.67	142.73	2.06	3.01	0.19	0.01	12.69	0.00	3.96	PD Upper
121G-40	142.73	144.78	2.06	5.33	0.59	0.01	35.71	0.00	3.96	PD Upper
121G-42	415.29	418.80	3.51	10.10	0.68	0.01	18.99	0.00	3.96	PD Upper
PD1-10-18	55.50	57.98	2.48	3.69	0.09	0.02	7.30	0.04	4.33	PD Upper
PD1-10-18	57.98	60.45	2.48	5.00	0.24	0.03	8.72	0.08	4.62	PD Upper
PD1-10-18	60.45	62.93	2.48	3.60	0.32	0.02	11.36	0.10	4.70	PD Upper
PD1-10-18	62.93	65.40	2.48	4.60	0.37	0.02	11.24	0.12	4.71	PD Upper
PD1-10-20	32.20	34.23	2.03	4.44	0.19	0.06	10.80	0.07	3.82	PD Upper
PD1-10-20	34.23	36.27	2.03	0.90	0.73	0.06	16.12	0.12	4.39	PD Upper
PD1-10-20	36.27	38.30	2.03	1.06	0.79	0.07	17.24	0.14	4.35	PD Upper
PD1-10-20	38.30	40.33	2.03	0.45	1.58	0.03	20.48	0.14	4.52	PD Upper
PD1-10-20	40.33	42.37	2.03	3.31	2.03	0.10	25.49	0.13	4.38	PD Upper
PD1-10-20	42.37	44.40	2.03	7.29	1.79	0.15	26.04	0.11	4.38	PD Upper
PD1-10-20	44.40	46.43	2.03	4.09	0.96	0.04	15.81	0.11	4.55	PD Upper
PD1-10-20	46.43	48.47	2.03	3.90	0.27	0.04	7.32	0.11	4.70	PD Upper
PD1-10-20	48.47	50.50	2.03	9.53	0.14	0.03	4.60	0.08	4.45	PD Upper
PD1-10-23	26.00	29.90	3.90	3.13	1.39	0.04	19.57	0.14	3.96	PD Upper
PD1-10-24	46.50	49.45	2.95	2.21	1.73	0.13	30.99	0.14	4.31	PD Upper
PD1-10-24	49.45	52.40	2.95	2.07	1.47	0.09	23.38	0.08	3.85	PD Upper
PD1-10-25	37.50	39.80	2.30	2.98	1.26	0.15	23.86	0.12	4.13	PD Upper
PD1-10-25	39.80	42.10	2.30	3.58	1.51	0.11	28.56	0.16	4.18	PD Upper
PD1-10-25	42.10	44.40	2.30	2.28	0.95	0.07	29.29	0.13	4.05	PD Upper
PD1-10-26	34.40	36.52	2.12	8.64	0.06	0.04	5.44	0.06	3.97	PD Upper
PD1-10-26	36.52	38.64	2.12	5.40	0.62	0.08	18.60	0.13	4.18	PD Upper
PD1-10-26	38.64	40.76	2.12	1.92	0.91	0.04	16.21	0.16	4.42	PD Upper
PD1-10-26	40.76	42.88	2.12	1.85	0.21	0.02	9.15	0.09	4.68	PD Upper
PD1-10-26	42.88	45.00	2.12	2.56	0.36	0.02	8.31	0.09	4.66	PD Upper
PD1-10-27	53.50	55.51	2.01	6.63	0.61	0.02	16.36	0.09	4.73	PD Upper
PD1-10-27	55.51	57.53	2.01	2.54	0.58	0.02	14.61	0.06	4.57	PD Upper
PD1-10-27	57.53	59.54	2.01	6.95	0.25	0.02	11.65	0.05	4.41	PD Upper
PD1-10-27	59.54	61.55	2.01	0.07	0.01	0.01	0.45	0.01	2.80	PD Upper
PD1-10-27	61.55	63.56	2.01	6.95	0.67	0.03	10.66	0.11	4.27	PD Upper
PD1-10-27	63.56	65.58	2.01	12.11	0.70	0.03	17.17	0.14	4.56	PD Upper
PD1-10-27	65.58	67.59	2.01	6.91	0.72	0.02	15.91	0.11	4.10	PD Upper
PD1-10-27	67.59	69.60	2.01	6.99	0.24	0.02	4.62	0.07	3.92	PD Upper
PD1-10-28	58.10	60.14	2.04	15.01	0.21	0.43	18.38	0.04	4.11	PD Upper
PD1-10-28	60.14	62.18	2.04	3.62	0.80	0.14	119.20	0.15	3.93	PD Upper
PD1-10-28	62.18	64.22	2.04	5.97	1.01	0.05	34.32	0.10	4.10	PD Upper
PD1-10-28	64.22	66.26	2.04	4.61	0.69	0.04	16.26	0.10	4.19	PD Upper
PD1-10-28	66.26	68.30	2.04	2.62	1.87	0.05	24.07	0.18	4.42	PD Upper
PD1-10-28	68.30	70.34	2.04	3.12	3.15	0.05	44.10	0.18	3.86	PD Upper
PD1-10-28	70.34	72.38	2.04	4.22	1.63	0.12	20.40	0.16	4.02	PD Upper
PD1-10-28	72.38	74.42	2.04	4.35	1.59	0.01	10.87	0.16	4.13	PD Upper
PD1-10-28	74.42	76.46	2.04	0.93	1.39	0.02	20.86	0.22	4.40	PD Upper
PD1-10-28	76.46	78.50	2.04	1.55	0.64	0.02	22.21	0.22	4.48	PD Upper
PD1-10-29	99.70	103.00	3.30	20.34	0.18	0.02	34.35	0.07	4.46	PD Upper
PD1-10-31	131.70	133.00	1.30	0.08	2.54	0.01	8.00	0.14	4.03	PD Upper
PD1-10-32	122.00	123.20	1.20	4.08	0.38	0.07	20.80	0.04	4.50	PD Upper
PD1-10-33	109.80	111.88	2.08	4.57	0.60	0.07	33.27	0.08	4.19	PD Upper
PD1-10-33	111.88	113.95	2.08	9.29	0.47	0.07	56.53	0.08	3.80	PD Upper
PD1-10-33	113.95	116.03	2.08	6.88	0.22	0.05	13.47	0.07	4.04	PD Upper
PD1-10-33	116.03	118.10	2.08	3.36	0.23	0.04	11.72	0.07	4.21	PD Upper
PD1-10-34	125.60	127.95	2.35	6.54	0.59	0.05	39.57	0.06	3.84	PD Upper
PD1-10-34	127.95	130.30	2.35	1.88	0.42	0.01	9.97	0.04	3.87	PD Upper
PD1-10-34	130.30	132.65	2.35	1.43	0.17	0.02	5.10	0.05	4.53	PD Upper
PD1-10-34	132.65	135.00	2.35	4.30	0.25	0.02	7.91	0.06	4.71	PD Upper
PD1-10-35	55.80	57.81	2.01	1.49	1.46	0.29	27.58	0.11	4.75	PD Upper

Upper zone: 2 meters composite , the excess length was divided in equal part and add to the other composites

HOLE-ID	FROM (metres)	TO (metres)	LENGTH (metres)	ZN %	CU %	PB %	AG GPT	AU GPT	SG	ZONE
PD1-10-35	57.81	59.83	2.01	15.31	0.14	0.20	18.36	0.02	4.58	PD Upper
PD1-10-35	59.83	61.84	2.01	9.92	0.14	0.14	16.43	0.02	4.34	PD Upper
PD1-10-35	61.84	63.86	2.01	0.59	0.02	0.06	0.82	0.00	2.91	PD Upper
PD1-10-35	63.86	65.87	2.01	0.58	0.26	0.19	17.53	0.07	2.96	PD Upper
PD1-10-35	65.87	67.89	2.01	7.73	1.02	0.06	29.24	0.14	4.18	PD Upper
PD1-10-35	67.89	69.90	2.01	2.42	1.68	0.06	32.48	0.14	3.80	PD Upper
PD1-10-36	68.00	70.17	2.17	11.07	0.37	0.07	11.20	0.02	4.16	PD Upper
PD1-10-36	70.17	72.34	2.17	9.53	0.25	0.08	7.33	0.06	4.49	PD Upper
PD1-10-36	72.34	74.51	2.17	9.34	0.39	0.19	11.41	0.07	4.01	PD Upper
PD1-10-36	74.51	76.69	2.17	5.57	0.43	0.04	20.14	0.07	4.38	PD Upper
PD1-10-36	76.69	78.86	2.17	3.90	0.39	0.02	14.52	0.07	4.47	PD Upper
PD1-10-36	78.86	81.03	2.17	0.36	1.47	0.07	17.60	0.17	4.67	PD Upper
PD1-10-36	81.03	83.20	2.17	0.94	0.59	0.03	10.58	0.09	4.61	PD Upper
PD1-10-37	70.90	72.96	2.06	2.02	1.41	0.08	124.26	0.11	4.22	PD Upper
PD1-10-37	72.96	75.01	2.06	2.22	0.71	0.03	24.73	0.08	4.56	PD Upper
PD1-10-37	75.01	77.07	2.06	3.22	0.54	0.04	6.44	0.05	4.56	PD Upper
PD1-10-37	77.07	79.13	2.06	9.18	0.36	0.03	5.97	0.03	4.57	PD Upper
PD1-10-37	79.13	81.19	2.06	8.15	0.10	0.03	10.50	0.03	4.61	PD Upper
PD1-10-37	81.19	83.24	2.06	1.09	0.12	0.03	17.34	0.05	4.04	PD Upper
PD1-10-37	83.24	85.30	2.06	6.84	0.59	0.05	23.40	0.16	3.99	PD Upper
PD1-10-37	85.30	87.36	2.06	9.94	0.51	0.03	24.20	0.28	4.54	PD Upper
PD1-10-37	87.36	89.41	2.06	2.81	0.87	0.02	54.65	0.35	4.75	PD Upper
PD1-10-37	89.41	91.47	2.06	2.12	0.79	0.01	66.78	0.27	4.77	PD Upper
PD1-10-37	91.47	93.53	2.06	3.00	0.92	0.01	33.35	0.23	4.69	PD Upper
PD1-10-37	93.53	95.59	2.06	2.49	0.84	0.01	12.32	0.09	4.60	PD Upper
PD1-10-37	95.59	97.64	2.06	1.00	0.69	0.01	9.79	0.07	4.23	PD Upper
PD1-10-37	97.64	99.70	2.06	4.64	0.49	0.02	13.49	0.15	4.42	PD Upper
PD1-10-38	42.00	43.50	1.50	2.19	0.74	0.05	7.40	0.10	4.46	PD Upper
PD1-10-39	28.40	30.60	2.20	1.17	1.54	0.02	36.34	0.11	4.28	PD Upper
PD1-10-39	30.60	32.80	2.20	6.75	0.28	0.03	11.74	0.09	4.49	PD Upper
PD1-10-39	32.80	35.00	2.20	2.28	0.36	0.05	7.44	0.13	4.64	PD Upper
PD1-10-39	35.00	37.20	2.20	14.29	0.39	0.04	9.72	0.13	4.31	PD Upper
PD1-10-39	37.20	39.40	2.20	8.97	1.21	0.06	20.72	0.09	4.16	PD Upper
PD1-10-39	39.40	41.60	2.20	10.20	0.67	0.04	22.69	0.10	3.87	PD Upper
PD1-10-39	41.60	43.80	2.20	0.85	0.79	0.03	7.15	0.05	3.04	PD Upper
PD1-10-39	43.80	46.00	2.20	2.40	1.76	0.08	24.66	0.19	4.07	PD Upper
PD1-10-39	46.00	48.20	2.20	2.43	2.04	0.06	21.13	0.16	4.20	PD Upper
PD1-10-40	31.30	33.48	2.18	3.74	0.18	0.19	36.50	0.06	4.38	PD Upper
PD1-10-40	33.48	35.65	2.18	5.26	0.61	0.10	8.55	0.05	4.59	PD Upper
PD1-10-40	35.65	37.83	2.18	4.89	0.70	0.09	47.24	0.12	4.31	PD Upper
PD1-10-40	37.83	40.00	2.18	1.94	1.60	0.08	64.01	0.17	4.21	PD Upper
PD1-10-40	40.00	42.18	2.18	3.58	0.74	0.03	23.92	0.14	4.29	PD Upper
PD1-10-40	42.18	44.35	2.18	0.74	0.16	0.01	7.14	0.03	3.27	PD Upper
PD1-10-40	44.35	46.53	2.18	3.26	1.33	0.05	8.53	0.13	3.77	PD Upper
PD1-10-40	46.53	48.70	2.18	3.94	1.77	0.04	14.44	0.11	4.26	PD Upper
PD1-76-01	53.34	55.63	2.29	1.81	2.42	0.01	33.24	0.00	3.96	PD Upper
PD1-76-01	55.63	57.91	2.29	3.34	1.83	0.01	34.38	0.00	3.96	PD Upper
PD1-76-01	57.91	60.20	2.29	10.20	0.26	0.01	15.07	0.00	3.96	PD Upper
PD1-76-01	60.20	62.48	2.29	1.79	0.06	0.01	5.64	0.00	3.26	PD Upper
PD1-76-02	51.82	54.41	2.59	4.35	0.51	0.01	27.05	0.00	3.96	PD Upper
PD1-76-02	54.41	57.00	2.59	1.65	0.36	0.01	21.50	0.00	3.56	PD Upper
PD1-76-03	59.59	61.75	2.16	15.82	0.52	0.01	28.11	0.00	3.96	PD Upper
PD1-76-03	61.75	63.90	2.16	4.84	1.28	0.01	68.15	0.00	3.96	PD Upper
PD1-76-03	63.90	66.06	2.16	3.34	1.46	0.01	41.14	0.00	3.96	PD Upper
PD1-76-03	66.06	68.21	2.16	5.22	0.85	0.01	12.90	0.00	3.96	PD Upper
PD1-76-03	68.21	70.37	2.16	4.67	1.77	0.01	40.83	0.00	3.96	PD Upper
PD1-76-03	70.37	72.52	2.16	3.70	1.44	0.01	17.51	0.00	3.96	PD Upper
PD1-76-03	72.52	74.68	2.16	4.01	1.43	0.01	17.35	0.00	3.96	PD Upper

Upper zone: 2 meters composite , the excess length was divided in equal part and add to the other composites

HOLE-ID	FROM (metres)	TO (metres)	LENGTH (metres)	ZN %	CU %	PB %	AG GPT	AU GPT	SG	ZONE
PD1-76-04	62.94	65.10	2.16	2.37	1.13	0.01	26.36	0.00	3.96	PD Upper
PD1-76-04	65.10	67.25	2.16	7.95	0.45	0.01	10.98	0.00	3.96	PD Upper
PD1-76-04	67.25	69.41	2.16	6.12	0.34	0.01	12.17	0.00	3.96	PD Upper
PD1-76-04	69.41	71.56	2.16	4.42	0.26	0.01	9.11	0.00	3.96	PD Upper
PD1-76-04	71.56	73.72	2.16	2.88	0.55	0.01	14.66	0.00	3.96	PD Upper
PD1-76-04	73.72	75.87	2.16	2.34	1.41	0.01	23.39	0.00	3.96	PD Upper
PD1-76-04	75.87	78.03	2.16	10.46	0.51	0.01	8.45	0.00	3.96	PD Upper

Lower Zone 2 meters composite , the excess length was divided in equal part and add to the other composites

HOLE-ID	FROM (metres)	TO (metres)	LENGTH (metres)	ZN %	CU %	PB %	AG GPT	AU GPT	SG	ZONE
121G-01	62.33	64.36	2.03	3.32	0.60	0.01	8.56	0.17	3.96	PD Lower
121G-01	64.36	66.39	2.03	3.59	0.57	0.01	9.24	0.17	3.96	PD Lower
121G-01	66.39	68.43	2.03	3.87	0.53	0.01	9.93	0.17	3.96	PD Lower
121G-01	68.43	70.46	2.03	3.53	0.24	0.01	24.62	0.17	3.96	PD Lower
121G-01	70.46	72.49	2.03	2.79	0.52	0.01	22.45	0.17	3.96	PD Lower
121G-01	72.49	74.52	2.03	2.04	0.80	0.01	20.21	0.17	3.96	PD Lower
121G-02	99.97	101.50	1.53	1.90	2.90	0.01	35.27	0.00	3.00	PD Lower
121G-03	105.92	108.97	3.05	9.70	0.23	0.01	27.25	0.00	3.96	PD Lower
121G-05	114.30	116.84	2.54	4.33	0.17	0.01	28.66	0.00	3.96	PD Lower
121G-05	116.84	119.38	2.54	1.38	0.94	0.01	32.17	0.20	3.96	PD Lower
121G-05	119.38	121.92	2.54	7.89	0.53	0.01	7.60	0.00	3.96	PD Lower
121G-08	187.76	189.28	1.52	0.34	1.38	0.01	36.99	0.00	3.96	PD Lower
121G-15	183.49	186.54	3.05	8.25	1.31	0.01	8.22	0.00	3.96	PD Lower
121G-16	270.97	273.10	2.13	4.52	0.98	0.01	17.13	0.00	3.96	PD Lower
121G-16	273.10	275.24	2.13	4.85	0.68	0.01	18.59	0.00	3.96	PD Lower
121G-16	275.24	277.37	2.13	6.17	0.54	0.01	17.10	0.00	3.96	PD Lower
121G-16	277.37	279.50	2.13	7.86	1.48	0.01	13.78	0.00	3.96	PD Lower
121G-16	279.50	281.64	2.13	6.40	1.56	0.01	14.09	0.00	3.96	PD Lower
121G-16	281.64	283.77	2.13	4.98	2.16	0.01	10.52	0.00	3.96	PD Lower
121G-16	283.77	285.90	2.13	5.52	2.13	0.01	24.00	0.00	3.96	PD Lower
121G-16	285.90	288.03	2.13	3.76	1.73	0.01	24.39	0.00	3.96	PD Lower
121G-16	288.03	290.17	2.13	0.12	1.22	0.01	20.74	0.00	3.96	PD Lower
121G-16	290.17	292.30	2.13	0.09	1.62	0.01	13.10	0.00	3.52	PD Lower
121G-17	252.83	254.93	2.10	0.10	5.53	0.01	9.36	0.00	3.35	PD Lower
121G-17	254.93	257.02	2.10	0.10	7.07	0.01	11.55	0.00	3.35	PD Lower
121G-17	257.02	259.12	2.10	0.05	6.15	0.01	9.18	0.00	3.35	PD Lower
121G-17	259.12	261.21	2.10	0.03	4.04	0.01	7.03	0.00	3.35	PD Lower
121G-18	270.66	273.25	1.06	9.56	0.13	0.01	21.37	0.00	3.69	PD Lower
121G-18	273.25	275.84	2.59	8.78	0.13	0.01	27.88	0.00	3.96	PD Lower
121G-20	259.08	261.11	2.03	0.03	1.23	0.01	6.97	0.00	3.09	PD Lower
121G-20	261.11	263.15	2.03	0.05	3.47	0.01	5.48	0.00	3.35	PD Lower
121G-20	263.15	265.18	2.03	0.05	3.07	0.01	5.99	0.00	3.35	PD Lower
121G-23	354.48	356.74	2.26	0.08	2.82	0.01	18.61	0.00	3.00	PD Lower
121G-23	356.74	358.99	2.26	0.07	2.07	0.01	20.24	0.00	3.00	PD Lower
121G-23	358.99	361.25	2.26	0.09	4.71	0.01	13.54	0.00	3.00	PD Lower
121G-23	361.25	363.50	2.26	0.03	1.00	0.01	7.18	0.00	3.00	PD Lower
121G-23	363.50	365.76	2.26	0.04	2.90	0.01	11.54	0.00	3.00	PD Lower
121G-25	354.18	356.28	2.10	10.26	0.42	0.01	19.90	0.00	3.35	PD Lower
121G-25	356.28	358.37	2.10	1.84	0.90	0.01	11.20	0.19	3.35	PD Lower
121G-25	358.37	360.47	2.10	13.20	2.11	0.01	30.54	0.34	3.35	PD Lower
121G-25	360.47	362.56	2.10	11.51	2.11	0.01	35.39	0.34	3.35	PD Lower
121G-25	362.56	364.66	2.10	3.53	0.74	0.01	10.50	0.12	3.35	PD Lower
121G-25	364.66	366.75	2.10	4.88	0.65	0.01	15.17	0.00	3.35	PD Lower

Lower Zone 2 meters composite , the excess length was divided in equal part and add to the other composites

HOLE-ID	FROM (metres)	TO (metres)	LENGTH (metres)	ZN %	CU %	PB %	AG GPT	AU GPT	SG	ZONE
121G-25	366.75	368.85	2.10	9.30	0.18	0.01	20.28	0.15	3.35	PD Lower
121G-25	368.85	370.94	2.10	5.14	0.24	0.01	14.68	0.09	3.35	PD Lower
121G-26	235.92	238.96	3.04	0.06	2.39	0.01	7.02	0.00	3.35	PD Lower
121G-27	232.56	235.61	3.05	0.02	0.60	0.01	3.60	0.00	3.00	PD Lower
121G-28	339.70	341.80	2.10	7.88	0.85	0.01	14.76	0.00	3.96	PD Lower
121G-28	341.80	343.89	2.10	7.30	2.04	0.01	31.78	0.00	3.96	PD Lower
121G-28	343.89	345.99	2.10	16.25	0.79	0.01	19.93	0.00	3.96	PD Lower
121G-28	345.99	348.08	2.10	7.68	0.52	0.01	13.01	0.00	3.96	PD Lower
121G-29	225.40	228.12	2.72	0.08	0.87	0.01	6.12	0.00	3.96	PD Lower
121G-29	228.12	230.83	2.72	0.04	1.09	0.01	6.84	0.00	3.96	PD Lower
121G-31	229.36	231.88	2.52	3.25	0.61	0.01	28.11	0.00	3.96	PD Lower
121G-31	231.88	234.39	2.52	10.96	2.23	0.01	26.57	0.00	3.96	PD Lower
121G-34	526.69	529.74	3.05	0.01	0.94	0.01	6.16	0.00	3.00	PD Lower
121G-35	146.00	149.05	3.05	0.04	0.43	0.01	14.22	0.00	3.00	PD Lower
121G-36	311.35	312.85	1.50	2.15	0.04	0.01	1.71	0.00	3.35	PD Lower
121G-37	298.55	300.68	2.13	1.80	1.97	0.01	9.92	0.00	3.96	PD Lower
121G-37	300.68	302.82	2.13	1.41	2.13	0.01	22.94	0.00	3.96	PD Lower
121G-37	302.82	304.95	2.13	1.73	1.27	0.01	54.56	0.00	3.96	PD Lower
121G-37	304.95	307.09	2.13	4.41	2.83	0.01	74.96	0.00	3.96	PD Lower
121G-37	307.09	309.22	2.13	3.32	0.84	0.01	23.98	0.00	3.96	PD Lower
121G-40	146.30	147.37	1.07	2.88	0.43	0.01	6.85	0.00	3.96	PD Lower
121G-42	420.32	422.86	2.54	0.10	2.64	0.01	25.71	0.00	3.35	PD Lower
121G-42	422.86	425.40	2.54	0.05	1.29	0.01	15.57	0.00	3.35	PD Lower
121G-42	425.40	427.94	2.54	0.05	1.11	0.01	9.73	0.00	3.35	PD Lower
121G-43	469.09	470.61	1.52	0.02	2.13	0.01	19.86	0.00	3.00	PD Lower
PD1-10-18	72.00	74.00	2.00	0.59	3.14	0.02	24.88	0.28	4.37	PD Lower
PD1-10-18	74.00	76.00	2.00	0.30	2.36	0.02	36.60	0.24	4.55	PD Lower
PD1-10-18	76.00	78.00	2.00	0.33	1.26	0.02	27.39	0.26	4.45	PD Lower
PD1-10-18	78.00	80.00	2.00	5.33	0.08	0.01	12.09	0.09	4.25	PD Lower
PD1-10-18	80.00	82.00	2.00	2.35	0.30	0.01	16.93	0.09	4.45	PD Lower
PD1-10-18	82.00	84.00	2.00	1.36	0.92	0.03	21.28	0.12	4.30	PD Lower
PD1-10-19	69.50	71.55	2.05	0.33	2.76	0.03	23.37	0.26	3.98	PD Lower
PD1-10-19	71.55	73.60	2.05	0.37	1.05	0.02	31.76	0.14	4.34	PD Lower
PD1-10-20	53.00	55.10	2.10	2.52	0.07	0.02	2.32	0.05	3.86	PD Lower
PD1-10-20	55.10	57.20	2.10	2.81	0.19	0.04	4.62	0.12	4.86	PD Lower
PD1-10-20	57.20	59.30	2.10	3.60	0.15	0.06	4.69	0.13	4.89	PD Lower
PD1-10-20	59.30	61.40	2.10	3.50	0.21	0.06	4.87	0.09	4.84	PD Lower
PD1-10-22	31.70	34.33	2.63	2.01	2.19	0.05	21.31	0.21	4.56	PD Lower
PD1-10-22	34.33	36.97	2.63	3.15	0.68	0.02	3.92	0.07	4.44	PD Lower
PD1-10-22	36.97	39.60	2.63	1.33	0.69	0.01	6.17	0.11	4.43	PD Lower
PD1-10-23	31.80	34.20	2.40	3.38	1.37	0.05	9.99	0.12	4.19	PD Lower
PD1-10-23	34.20	36.60	2.40	1.62	1.37	0.02	13.72	0.10	3.89	PD Lower
PD1-10-23	36.60	39.00	2.40	2.73	2.23	0.01	5.42	0.04	3.81	PD Lower
PD1-10-24	56.20	57.00	0.80	3.88	0.08	0.02	2.10	0.04	3.81	PD Lower
PD1-10-25	47.00	48.90	1.90	4.63	0.10	0.01	3.45	0.03	4.28	PD Lower
PD1-10-26	48.00	50.47	2.47	1.88	0.67	0.04	10.74	0.17	4.27	PD Lower
PD1-10-26	50.47	52.93	2.47	4.87	0.99	0.03	8.77	0.28	4.27	PD Lower
PD1-10-26	52.93	55.40	2.47	2.87	1.78	0.06	14.16	0.14	4.55	PD Lower
PD1-10-27	78.50	81.35	2.85	4.65	1.15	0.01	4.50	0.09	4.48	PD Lower
PD1-10-27	81.35	84.20	2.85	2.31	1.39	0.02	10.54	0.10	4.32	PD Lower
PD1-10-28	81.50	84.50	3.00	1.62	1.10	0.01	15.10	0.14	4.53	PD Lower
PD1-10-31	141.60	142.30	0.70	0.05	1.95	0.01	3.20	0.21	4.57	PD Lower
PD1-10-32	130.20	130.90	0.70	4.56	0.11	0.01	5.80	0.06	4.27	PD Lower
PD1-10-33	121.00	123.05	2.05	0.87	1.31	0.03	7.75	0.13	4.62	PD Lower
PD1-10-33	123.05	125.10	2.05	0.73	0.96	0.03	12.03	0.19	4.66	PD Lower
PD1-10-34	136.50	138.75	2.25	1.30	0.62	0.01	14.97	0.13	4.49	PD Lower
PD1-10-34	138.75	141.00	2.25	0.25	1.30	0.01	11.82	0.11	4.17	PD Lower
PD1-10-35	80.10	82.28	2.18	4.28	0.44	0.02	12.63	0.07	3.91	PD Lower

Lower Zone 2 meters composite , the excess length was divided in equal part and add to the other composites

HOLE-ID	FROM (metres)	TO (metres)	LENGTH (metres)	ZN %	CU %	PB %	AG GPT	AU GPT	SG	ZONE
PD1-10-35	82.28	84.45	2.18	1.77	0.08	0.02	16.65	0.16	3.97	PD Lower
PD1-10-35	84.45	86.63	2.18	1.51	0.39	0.05	16.64	0.10	4.33	PD Lower
PD1-10-35	86.63	88.80	2.18	8.43	0.12	0.02	13.20	0.07	4.58	PD Lower
PD1-10-36	84.00	86.37	2.37	1.96	1.07	0.04	11.42	0.12	4.18	PD Lower
PD1-10-36	86.37	88.73	2.37	1.83	0.65	0.04	11.74	0.09	3.57	PD Lower
PD1-10-36	88.73	91.10	2.37	2.01	0.23	0.02	3.21	0.04	4.02	PD Lower
PD1-10-37	101.40	102.50	1.10	0.55	1.56	0.02	24.90	0.17	4.37	PD Lower
PD1-10-38	43.80	45.90	2.10	0.14	1.54	0.04	20.13	0.14	4.64	PD Lower
PD1-10-38	45.90	48.00	2.10	0.15	2.56	0.02	14.23	0.13	4.61	PD Lower
PD1-10-39	48.20	50.35	2.15	0.11	1.30	0.01	12.80	0.13	4.02	PD Lower
PD1-10-39	50.35	52.50	2.15	0.10	1.35	0.02	13.01	0.11	4.05	PD Lower
PD1-10-40	57.00	59.30	2.30	0.69	1.75	0.01	14.46	0.14	4.38	PD Lower
PD1-76-02	60.20	62.20	2.00	7.39	0.58	0.01	15.04	0.00	3.96	PD Lower
PD1-76-02	62.20	64.20	2.00	10.28	0.57	0.01	16.60	0.00	3.96	PD Lower
PD1-76-02	64.20	66.20	2.00	2.96	0.37	0.01	10.26	0.00	3.96	PD Lower
PD1-76-02	66.20	68.20	2.00	3.24	1.38	0.01	11.05	0.00	3.96	PD Lower
PD1-76-02	68.20	70.20	2.00	2.00	0.85	0.01	12.13	0.00	3.96	PD Lower
PD1-76-02	70.20	72.20	2.00	1.10	0.88	0.01	15.02	0.00	3.39	PD Lower
PD1-76-02	72.20	74.20	2.00	2.61	1.27	0.01	16.40	0.00	3.00	PD Lower
PD1-76-02	74.20	76.20	2.00	2.92	0.84	0.01	12.63	0.00	3.00	PD Lower
PD1-76-03	80.77	83.06	2.29	1.61	0.63	0.01	11.40	0.00	3.96	PD Lower
PD1-76-03	83.06	85.34	2.29	0.88	1.04	0.01	10.28	0.00	3.96	PD Lower
PD1-84-04	440.74	443.18	2.44	0.01	1.94	0.00	3.12	0.03	3.00	PD Lower

Appendix III: Matagami Rock Codes

The following table defines rock codes utilized by the Matagami Project and that accompany the drill sections provided under Appendix VI

BRV1B	Bracemac rhyolite	T	Tuffite
BT	Bracemac tuffite	T1A	Fault Breccia
CSG	Casing	T1C	Fault Zone
DV1B	Dumagami rhyolite	T2	Intermediate tuff
I1	Igneous, Felsic Intrusive	T3	Mafic tuff
I1B	Granite	T4	Tectonic breccia
I1C	Granodiorite	TL	Lapilli Tuff
I1D	Tonalite	UT	Upper tuffite
I1I	Quartz-rich granitoid	UT1	First Upper Tuffite
I1N	Quartz vein	UT2	Second Upper tuffite
I2	Igneous, Intermediate Intrusive	V1	Igneous, Felsic Volcanic
I2E	Quartz Monzonite	V1B	Rhyolite
I2H	Monzodiorite	V1C	Rhyodacite
I2J	Diorite	V1D	Dacite
I3	Intrusive mafic	V2	Intermediate volcanic
I3A	Gabbro	V2J	Andesite
I3CQ	Quartziferous gabbro	V3	Mafic volcanic rock
I3G	Anorthosite	V3A	Andesitic basalt
I3I	Gabbro anorthositique	V3B	Basalt
I4	Intrusive, ultramafic	WV1B	Watson Lake rhyolite
KT	Key tuffite		
M25	Mylonite		
MS	Massive Sulphides (>75%)		
Pipe	Pipe alteration zone		
QS	Quaternary sed.		
S	Sediment		
S6D	Mudstone		
SMS	Semi-Massive Sulphides (50-75%)		

Appendix IV: Geological Cross sections and Block Model Cross sections

Note: On the geological sections, block model boundaries appear to fall outside of geological contacts for mineralization. This is due to 2D versus 3D projections.

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Appendix V: Sulphide Characterization and Predictive Metallurgy Studies.

Terra Mineralogical Services
Giovanni Di Prisco

Mineralogical Report

ORE CHARACTERIZATION AND PREDICTIVE METALLURGY EVALUATION OF DRILL CORE SAMPLES FROM THE VMS PD1 ORE DEPOSITS; MATAGAMI CAMP, NORTHERN QUEBEC

Prepared for Gilles Roy
Xstrata Zinc

by Giovanni Di Prisco

Project: **Matagami PD1 Deposits - Ore Characterization – 10APR-001**

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SUMMARY

Xstrata Zinc submitted sixteen core samples from the former PD1 deposit, located in the Matagami Camp, Quebec. The scope of this study was to carry out an ore characterization and predictive metallurgy evaluation of this massive sulphide deposit.

The PD1 ore mineralization bears some mineralogical similarities to ore from adjacent deposits occurring on the South flank of the Matagami anticlinorium, in the Matagami Camp, and particularly Bell Allard South, Perseverance, Equinox, Bracemac and McLeod deposits, yet it also presents marked textural differences.

The PD1 mineralization can be best classified as massive to locally semi-massive sulphide ore. Carbonate, quartz, and chlorite comprise the main non-opaque gangue and occur in variable amounts. Magnetite is also quite common in these samples. Gangue sulphides are prevalently comprised of pyrite with lesser amounts of pyrrhotite, whereas the main economic sulphide minerals in the PD1 orebody are sphalerite and chalcopyrite. Trace amounts of galena and altaite (Pb Telluride) were also observed in only a few samples. Altaite occurs as minute inclusions in chalcopyrite (PD1-10-19).

The bulk of the PD1 ore forms fine to very fine-grained and moderately complex mineral textures. Locally, scarce very fine-grained economic minerals occur locked in pyrite. Based on this limited number of samples, the overall features of the PD1 mineralization would suggest that recurrent mineral liberation issues will arise. Electron microprobe analyses of a limited group of samples have indicated that chalcopyrite does not contain Silver, and that the average Zinc content in sphalerite is approximately 60 wt%.

The main metallurgical issue of the PD1 ore will most likely be the insufficient degree of mineral liberation of the economic minerals, if the primary grind currently applied for the Perseverance and Equinox ore is used for the PD1 mineralization. This ore will require a finer primary grind and, as a measure of comparison, the PD1 mineralization presents greater textural similarities to the Brunswick ore than to the Matagami ore that have been and are being mined/ processed from the South flank. A second potential issue could be relatively high Tellurium concentrations in the concentrate products. A firm conclusion cannot be drawn at this point as only a limited number of samples were examined. Yet some of the data collected suggest that it would be prudent to carefully monitor the concentrations of Tellurium, particularly in the Copper concentrates.

Terra Mineralogical Services
July 10, 2010

Giovanni Di Prisco, Ph.D. P.Geo.
Consulting Geologist - Mineralogist

INTRODUCTION

A series of core samples were collected from drill holes interesting the former PD1 deposit, located in the Matagami camp. The author selected mineralized intervals through six drill holes interesting the PD1 VMS deposit. Sixteen core samples (Table 1) were collected by the geology staff of Xstrata Zinc throughout this orebody based on the author's instructions. The scope of this study was to complete an ore characterization and predictive metallurgy evaluation of the PD1 orebody.

Table 1. Drill Core Samples from PD1

Drill Hole	Depth (m)	SAMPLE_NO
PD1-10-24	48.85	969144
PD1-10-24	56.50	969154
PD1-10-24	63.65	969160
PD1-10-20	32.55	969064
PD1-10-20	43.15	969074
PD1-10-20	61.20	969089
PD1-10-23	28.90	969118
PD1-10-23	38.25	969126
PD1-10-18	44.55	969009
PD1-10-18	59.00	969022
PD1-10-18	67.50	969029
PD1-10-18	82.85	969040
PD1-10-26	36.60	969197
PD1-10-26	53.55	969210
PD1-10-19	69.85	969051
PD1-10-19	73.05	969054

METHODOLOGY

The methodology used for this study consisted of an ore microscopy characterization of the ore samples, as well as a classification of the ore textures using the "Middling Rating" method. One polished thin section from each sample was prepared; mineral species and mineral texture evaluation ("Middling Rating") were carried out using reflected and transmitted light microscopy.

In addition, a series of Electron Microprobe analyses were completed at the Duncan Derry Microprobe Laboratories of the University of Toronto using the Electron Microprobe CAMECA SX50, fitted with three WDS spectrometers. Electron microprobe analyses were carried out for chalcopyrite and sphalerite grains

For each sample, mineral intergrowths that would control the liberation of copper-, and zinc-bearing minerals were rated. The rating system, referred to as "Middling Rating," consists of a semi-quantitative method of evaluating the potential degree of liberation of ore minerals during grinding with a commonly used K80 primary grind for base metals of approximately 70 µm to 65 µm. For each selected intergrowth, a rating is attributed based on the measurement and assessment of mineral features controlling mineral liberation. These include mineral grain size, the nature of mineral contacts (interstitial phases, inclusions), and the complexity of grain boundaries shapes.

The intergrowth ratings are presented in the middling rating tables. Two blocks of ratings are presented. The first is pertinent to the Copper mineral liberation (predominantly chalcopyrite), whereas the second is pertinent to sphalerite liberation (Zinc).

A special case is the repetition of the ratings "chalcopyrite-sphalerite." In this case the rating of this intergrowth in the block of data pertinent to the Copper mineral liberation estimates how well Copper minerals (principally chalcopyrite) are expected to unlock from sphalerite (Zinc), whereas the rating of the same intergrowth in the block of ratings pertinent to sphalerite liberation, estimates the potential degree of liberation of sphalerite (Zinc) from chalcopyrite (Copper). In instances in which similar amounts of chalcopyrite and sphalerite occur evenly distributed, and with a similar grain size, an identical rating is attributed to this intergrowth in both the Copper and Zinc rating blocks. Finally, if no chalcopyrite is present in the sample but sphalerite is present, no rating for this intergrowth is recorded in the rating block for Copper minerals, whereas a rating of "0" (perfect liberation) is recorded in the rating block for the zinc circuit. In the reverse situation (chalcopyrite present but no sphalerite present), the rating is reversed.

For the present study, a total of six middling ratings were recorded (Table 2). Minerals with estimated volume content less than 0.5 % were not considered for middling rating. Abbreviations used in this report and grain size codes are presented in Tables 3 and 4, whereas "Middling Rating" codes and their significance for mineral processing are presented in Table 5.

Table 2. Type of Mineral Intergrowths (middlings)	
cp – nop/mt	chalcopyrite - non-opaque gangue/ mt minerals intergrowth
cp - py/po	chalcopyrite – pyrite and / or pyrrhotite intergrowth
cp - sph	chalcopyrite - sphalerite intergrowth
sph – nop/mt	sphalerite - non-opaque gangue/ mt minerals intergrowth
sph - py/po	sphalerite – pyrite and / or pyrrhotite intergrowth
sph - cp	sphalerite - chalcopyrite intergrowth

Table 3. Mineral Abbreviations

alt	:	altaite	hem	:	hematite
act	:	actinolite	mt	:	magnetite
amp	:	amphibole	nop	:	non-opaque gangue minerals
asp	:	arsenopyrite	po	:	pyrrhotite
chl	:	chlorite	qtz	:	quartz
crb	:	carbonate	ser	:	sericite/ hydromuscovite
cp	:	chalcopyrite	sph	:	sphalerite
Fe-Ox	:	Iron Oxides			
ga	:	galena			

Table 4. Grain Size Codes			
Category	Size - µm	Abbreviation	Approximate Mesh Equivalent
Very Coarse	> 150 µm	VC	>100 Mesh
Coarse	150 to 75 µm	C	200 to 100 Mesh
Medium	75 to 35 µm	M	400 to 200 Mesh
Fine	35 to 20 µm	F	~ 800 to 400 Mesh
Very Fine	20 to 5 µm	VF	< ~ 800 Mesh
Ultra Fine	< 5 µm	UF	

Table 5. Middling Rating Codes		
Rating Code*	**Liberation Degree**	**Visual Estimate of the Size of the Mineral Fractions (MF)**
0	**perfect**	**minerals not in contact and all MF >20µm**
1	**very good**	**up to 5% of the MF <20µm**
2	**good**	**6 to 25% of the MF <20µm**
3	**fair**	**26 to 50% of the MF <20µm**
4	**poor**	**51 to 75% of the MF <20 µm**
5	**very poor**	**76 to 95% of the MF <20µm**
6	**extremely poor**	**>96% of the MF <20µm**

Ratings are given on a scale from 0 (expected total mineral liberation) to 6 (extremely poor mineral liberation) for a given mineral intergrowth that would undergo a primary grind at a K80 of approximately 65 to 70 µm.

- For a given mineral intergrowth with an average **rating value ranging from 0 to 2.9**, the mineral liberation is expected to be good to very good and only occasional mineral liberation problems may occur. No regrind or light regrind would be required.
- For an average rating **value ranging from 3 to 3.4,** the mineral liberation is expected to be fair and could result in moderate mineral processing issues due to incomplete mineral liberation that could affect metal recoveries. Moderate amount of regrind would be required.
- For an average **rating value above 3.5**, the expected mineral liberation would be poor at a K80 > 60 µm. This would likely result in recurrent challenging metallurgy to achieve economical recoveries and grades. These textures would require a finer primary grind (K80 40 to 30 mm) and moderate to extensive fine to very fine regrind (< 35 down to ~ 10 µm).

ORE CHARACTERIZATION

The average modal composition of the drill core samples collected from the PD1 ore is presented in Table 6, whereas the summary of middling ratings for these core samples is presented in Table 7. The complete set of data tables presenting modal composition and middling ratings for individual samples are presented in the Appendices 1 (modal composition) and 2 (Middling Ratings). Photomicrographs illustrating pertinent ore textures are presented in Appendix 3.

Table 6. Average of Estimated Minerals Vol % in Drill Core Samples from PD1

Drill Hole	nop	mt	py/ mc	po	cp	ga	sph	other/ notes
PD1 - 10 - 24	32.3	3.5	38.0	11.0	8.3	0.0	6.8	
PD1 - 10 - 20	23.7	0.0	46.0	2.3	3.3	0.0	24.7	
PD1 - 10 - 23	20.0	13.8	53.5	0.2	6.9	0.0	6.3	
PD1 - 10 - 18	29.3	4.9	53.0	2.9	2.7	0.0	7.3	
PD1 - 10 - 26	44.0	0.8	43.0	0.0	2.2	0.1	10.0	tr: asp
PD1 - 10 - 19	21.0	9.3	55.0	9.0	3.2	0.0	2.5	tr: altaite (Pb Tel.)
Average	**28.4**	**5.4**	**48.1**	**4.2**	**4.4**	**0.0**	**9.6**	

Most of the samples examined can be classified as massive to semi-massive sulphide ore. The main gangue minerals are comprised of carbonate, quartz and chlorite with locally, minor amounts of sericite. The gangue is commonly intergrown with magnetite. Finally, gangue sulphides are mainly comprised of pyrite and lesser pyrrhotite. Pyrite is the most abundant mineral in most samples. Chalcopyrite and sphalerite are the main economic minerals. In a few samples, minute grains of galena and altaite were also observed. Altaite (Pb- Telluride) occurs as fine mineral inclusions in chalcopyrite

Table 7. PD1 - Selected Drill Hole Samples - Summary Middling Ratings

	chalcopyrite			sphalerite		
Drill Hole	nop	py/po	sph	nop	py/po	cp
PD1 - 10 - 24	3.0	3.4	2.9	2.8	3.1	3.0
PD1 - 10 - 20	1.8	3.6	3.8	2.8	3.5	3.1
PD1 - 10 - 23	3.5	3.7	3.2	3.0	3.4	3.2
PD1 - 10 - 18	3.2	3.3	2.9	3.2	3.3	1.4
PD1 - 10 - 26	3.2	3.4	3.3	3.1	3.4	1.6
PD1 - 10 - 19	2.7	3.5	3.3	2.8	3.4	3.6
Average	**2.9**	**3.5**	**3.2**	**2.9**	**3.3**	**2.6**

Most of the mineral intergrowths are medium-to very fine-grained with locally coarse grained textures. In instances where chlorite is present, it commonly forms a fine to very fine-grained, blade-like texture, with chalcopyrite and also sphalerite. The bulk of thePD1 mineral intergrowths are comprised of intergrowths of pyrite with some economic minerals, less magnetite, and silicate gangue. Most of the time, these pyrite-dominated textures can be best described as moderately complex to complex. In instances where pyrite is the most abundant (low grade Cu and Zn ore), the economic minerals present form the most complex textures and in these particular areas (margins of the deposit) chalcopyrite and sphalerite will be difficult to liberate well without resorting to a fine primary grind and a series of regrind options. Indeed, the main metallurgical challenge for this ore would be the separation of the economic minerals from the gangue and particularly from the Iron-sulphide gangue. The data collected from these samples suggest the use of a finer primary grind than the one presently in use for processing the Perseverance and Equinox ore.

MINERAL CHEMISTRY

Chalcopyrite

Chalcopyrite was the sole Copper carrier identified in these PD1samples. A total of twenty -five (25) microprobe analyses of chalcopyrite were collected from four drill core samples. The elements analyzed in chalcopyrite include Cobalt, Arsenic, Silver, Bismuth, Tellurium, and Selenium in addition to Copper, Iron, and Sulphur. A summary of the PD1 chalcopyrite Electron Probe analyses is presented in Table 8, whereas the entire set of chalcopyrite microprobe data is presented in Appendix 4.

Table 8. Summary Electron Microprobe Analyses of PD Chalcopyrite Grains

	Cu	Fe	Co	As	Ag	Bi	Te	Se	S	Total wt%
Detection Limit @ 3 Sigma	0.030	0.022	0.014	0.023	0.021	0.035	0.021	0.024	0.021	
Detection Limit @ 2 Sigma	0.021	0.015	0.010	0.016	0.014	0.024	0.015	0.017	0.015	
Average	**34.47**	**30.50**	**0.002**	**0.000**	**0.003**	**0.004**	**0.003**	**0.005**	**35.02**	**100.00**
Std Deviation	0.201	0.241	0.004	0.000	0.004	0.019	0.006	0.009	0.161	0.452
Max	34.85	30.86	0.02	0.00	0.01	0.10	0.02	0.03	35.39	100.78
Min	34.08	29.73	0.00	0.00	0.00	0.00	0.00	0.00	34.65	99.08
N:	25	25	25	25	25	25	25	25	25	

By all measures, the grains analyzed possess the mineral chemistry of "clean" chalcopyrite. No trace amounts of any significance were detected in the analyzed chalcopyrite grains.

Sphalerite

Sphalerite is the sole Zinc carrier identified in the core samples from the PD1 samples. A total of twenty-five (25) microprobe analyses of sphalerite were collected from five core samples. The elements analyzed in sphalerite include Manganese, Cadmium, and Copper in addition to Zinc, Iron, and Sulphur. A summary of the PD1 sphalerite Electron Probe analyses is presented in Table 9, whereas the entire set of microprobe data is presented in Appendix 4.

Table 9. Summary Electron Microprobe Analyses of PD Sphalerite Grains

	Zn	Fe	Mn	Cd	Cu	S	Total wt%
Detection Limit @ 3 Sigma	0.033	0.018	0.013	0.031	0.013	0.018	
Detection Limit @ 2 Sigma	0.023	0.013	0.009	0.022	0.009	0.012	
Average	**60.25**	**6.12**	**0.00**	**0.14**	**0.12**	**33.39**	**100.02**
Standard Deviation	0.693	0.794	0.000	0.027	0.119	0.235	0.438
Max	61.69	7.50	0.00	0.19	0.48	33.95	100.89
Min	58.82	4.65	0.00	0.08	0.00	32.97	99.41
N	25	25	25	25	25	25	25

The majority of sphalerite presents a Zinc average close to 60.3% with approximately 6.1% Iron. Trace amounts of Cadmium and Copper were also found in the sphalerite grains, whereas no manganese was identified.

APPENDIX 1
PD1 Ore Samples
Estimated Volume % Composition (Esti. Modal Composition)

PD1 - Summary Volume %

PD 1-10-24 Estimated Vol %								
depth (m)	nop	mt	py/ mc	po	cp	ga	sph	other/ notes
48.85m	33.0	0.0	42.0	15.0	**7.5**	**0.0**	**2.5**	
qtz, crb					C-VF, VC		C-VF	
56.5m	50.0	0.5	32.0	0.0	**1.5**	**0.0**	**16.0**	
chl, qtz					M-VF, C		VC-M, F-VF	
63.65m	14.0	10.0	40.0	18.0	**16.0**	**0.0**	**2.0**	
crb					VC-VF		C-VF	
Average	32.3	3.5	38.0	11.0	8.3	0.0	6.8	

PD 1-10-20 Estimated Vol %								
depth (m)	nop	mt	py/ mc	po	cp	ga	sph	other/ notes
32.55m	34.0	0.0	32.0	0.0	**2.0**	**0.0**	**32.0**	
qtz, minor crb					M-VF-C		VC, C-F	
43.15m	23.0	0.0	48.0	7.0	**7.0**	**0.0**	**15.0**	
qtz, minor crb					C-EF		C-VF	
61.2m	14.0	0.0	58.0	0.0	**1.0**	**0.0**	**27.0**	
qtz, chl, crb					F-VF, M		VC, C-VF	
Average	23.7	0.0	46.0	2.3	3.3	0.0	24.7	

PD 1-10-23 - Estimated Vol %								
depth (m)	nop	mt	py/ mc	po	cp	ga	sph	other/ notes
28.9m	10.0	20.0	62.0	0.2	**5.3**	**0.0**	**3.5**	
	crb, minor chl, qtz				**M-VF, C**		**M-VF**	
38.25m	30.0	7.5	45.0	tr	**8.5**	**0.0**	**9.0**	
	crb, minor chl, qtz				**C-EWF**		**C-VF**	
Average	**20.0**	**13.8**	**53.5**	**0.2**	**6.9**	**0.0**	**6.3**	

PD 1-10-18 - Estimated Vol %								
depth (m)	nop	mt	py/ mc	po	cp	ga	sph	other/ notes
44.55m	41.0	11.0	38.0	0.2	**0.3**	**0.0**	**9.5**	
	crb, chl				**VF**		**C-VF**	
59.0m	9.0	3.0	80.0	0.5	**0.0**	**0.0**	**7.5**	
	crb, chl						**C-VF**	
67.5m	53.0	0.0	39.0	0.0	**1.5**	**0.0**	**6.5**	
	qtz, chl				**C-EF**		**C-VF**	
82.85m	14.0	5.5	55.0	11.0	**9.0**	**0.0**	**5.5**	
	chl, crb				**C-EF, VC**		**C-VF**	
Average	**29.3**	**4.9**	**53.0**	**2.9**	**2.7**	**0.0**	**7.3**	

PD 1-10-26 - Estimated Vol %								
depth (m)	nop	mt	py/ mc	po	cp	ga	sph	other/ notes
36.6m	48.0	1.5	36.0	0.0	**0.4**	**0.1**	**14.0**	
	qtz, very minor ser				**F-VF**	**F-VF**	**C-VF**	
53.55m	40.0	0.0	50.0	0.0	**4.0**	**0.0**	**6.0**	asp:tr, VF
					C-EF		**C-VF**	
Average	**44.0**	**0.8**	**43.0**	**0.0**	**2.2**	**0.1**	**10.0**	

PD 1-10-19 - Estimated Vol %								
depth (m)	nop	mt	py/ mc	po	cp	ga	sph	other/ notes
69.85m	26.0 crb, chl	12.0	36.0	18.0	**3.9** VC-C, M-EF	**0.0**	**4.0** C-VF	altaite (Pb Tel): 0.1%, F-VF, inclusion in cp
73.05m	16.0	6.5	74.0	tr	**2.5** M-EF, C	**0.0**	**1.0** M-VF	
Average	**21.0**	**9.3**	**55.0**	**9.0**	**3.2**	**0.0**	**2.5**	

APPENDIX 2
PD1 Ore Samples

MIDDLING RATINGS

PD1 - Summary Middling Ratings

PD1-10-24 - Middling Ratings						
	chalcopyrite			sphalerite		
Sample	nop	py/po	sph	nop	py/po	cp
48.85m	3.1	3.5	2.5	2.8	3.2	2.7
56.5m	2.6	3.2	3.3	2.8	3.0	3.0
63.65m	3.3	3.5	3.0	2.8	3.2	3.3
Average	3.0	3.4	2.9	2.8	3.1	3.0

PD1-10-20 - Middling Ratings						
	chalcopyrite			sphalerite		
Sample	nop	py/po	sph	nop	py/po	cp
32.55m	2.5	4.2	3.5	2.8	3.4	3.1
43.15m	2.8	3.8	3.4	2.7	3.6	3.1
61.2m	0.0	2.9	4.5	2.8	3.5	3.1
Average	1.8	3.6	3.8	2.8	3.5	3.1

PD1-10-23- Middling Ratings						
	chalcopyrite			sphalerite		
Sample	nop	py/po	sph	nop	py/po	cp
28.9m	3.4	3.6	3.2	2.8	3.2	3.3
38.25m	3.5	3.8	3.1	3.2	3.6	3.1
Average	3.5	3.7	3.2	3.0	3.4	3.2

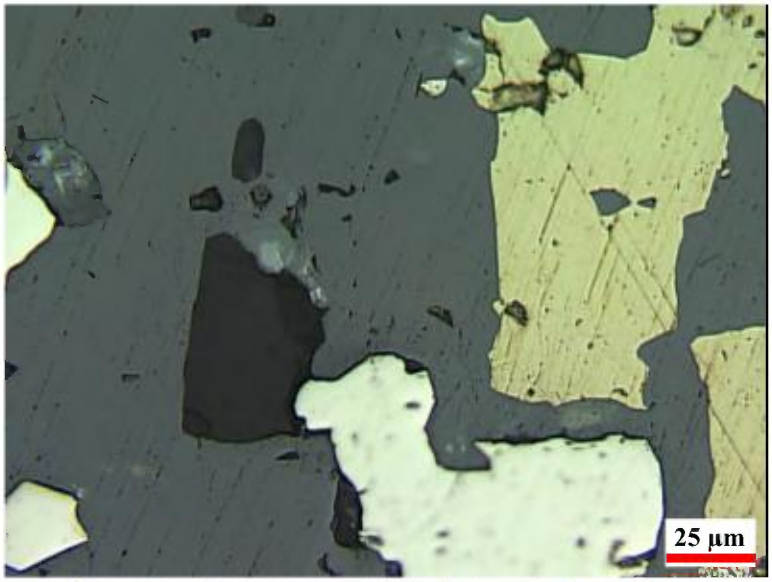
PD1-10- 18 - Middling Ratings						
	chalcopyrite			sphalerite		
Sample	nop	py/po	sph	nop	py/po	cp
44.55m	-	-	-	3.1	3.3	0.0
59.0m	-	-	-	3.0	3.3	0.0
67.5m	3.1	2.9	2.8	3.2	3.3	2.5
82.85m	3.3	3.6	3.0	3.4	3.4	3.2
Average	3.2	3.3	2.9	3.2	3.3	1.4

PD1-10-26 - Middling Ratings						
	chalcopyrite			sphalerite		
Sample	nop	py/po	sph	nop	py/po	cp
36.6m	-	-	-	3.0	3.4	0.0
53.55m	3.2	3.4	3.3	3.1	3.3	3.1
Average	3.2	3.4	3.3	3.1	3.4	1.6

PD1-10-19 - Middling Ratings						
	chalcopyrite			sphalerite		
Sample	nop	py/po	sph	nop	py/po	cp
69.85m	2.7	2.8	2.6	2.8	3.0	2.9
73.05m	2.7	4.2	4.0	2.7	3.7	4.2
Average	2.7	3.5	3.3	2.8	3.4	3.6

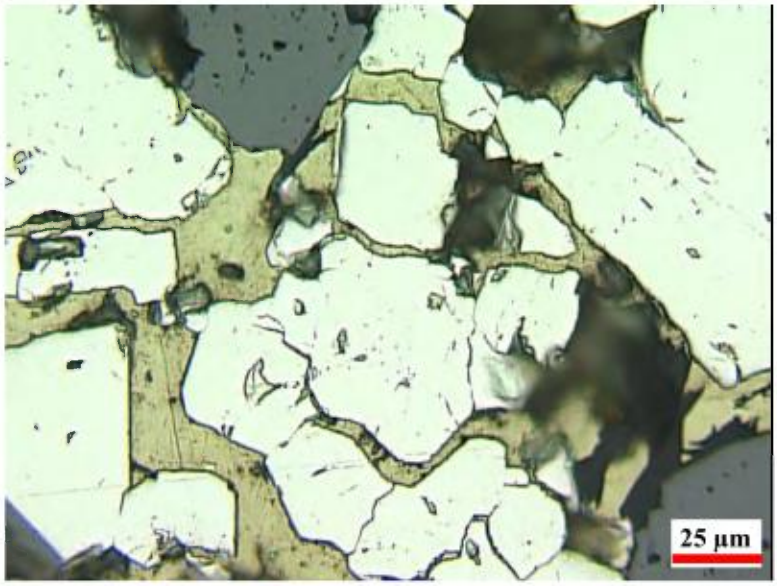
APPENDIX 3
PD1 ORE MINERALIZATION

PHOTOMICROGRAPHS



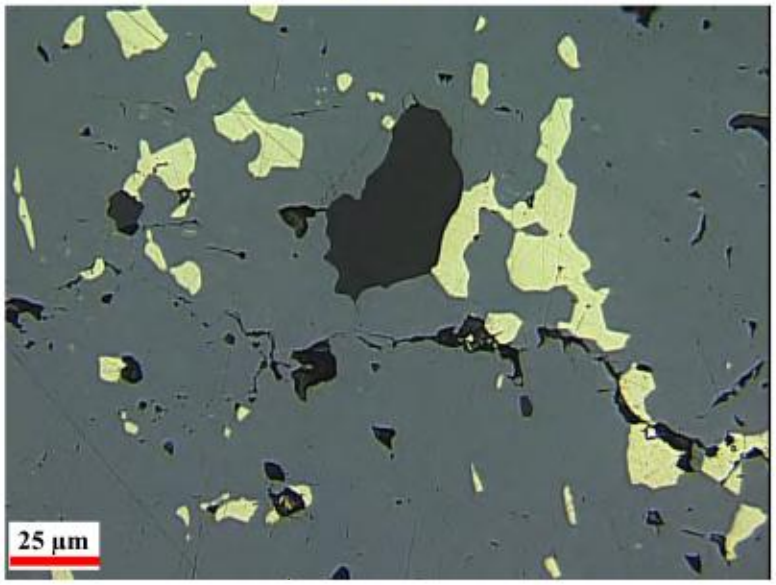
PD1. – PD1-10-24 – 56.5m
Refl Light – 500X

Relatively simple coarse sphalerite intergrown with chalcopyrite and pyrite



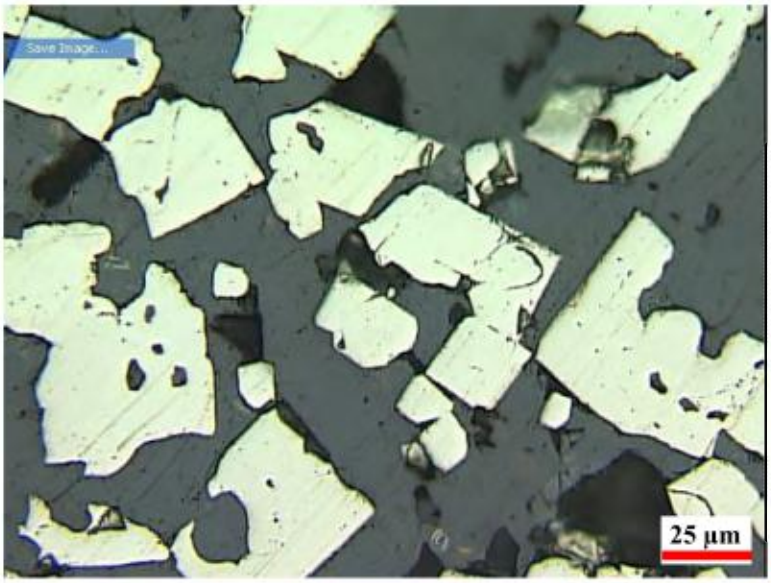
PD1. – PD1-10-24 – 63.65m
Refl Light – 500X

More complex, fine grained chalcopyrite intergrown with pyrite and magnetite



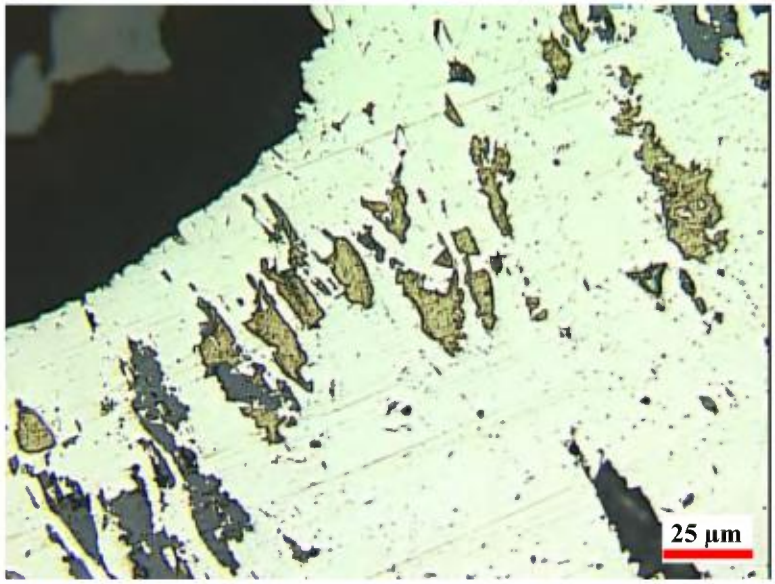
PD1. – PD1-10-20 – 32.55m
Refl Light – 500X

Fine, complex chalcopyrite inclusions in sphalerite



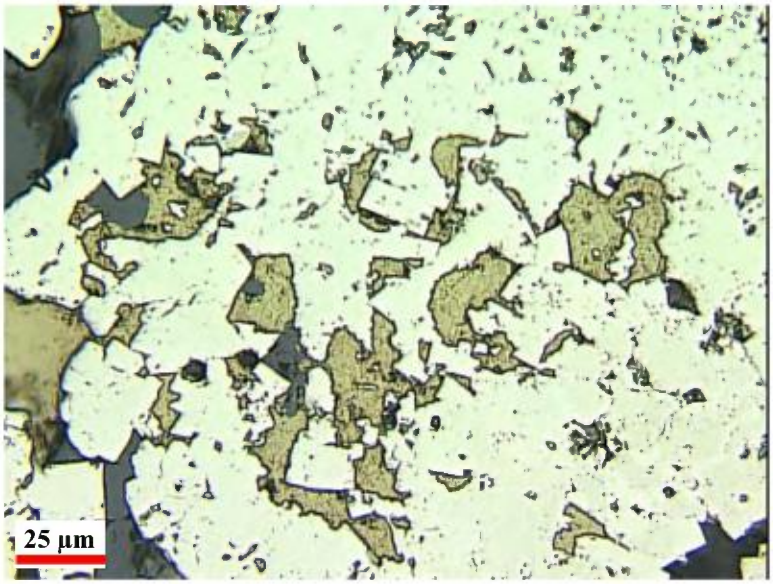
PD1. – PD1-10-20 – 32.55m
Refl Light – 500X

Fine, complex sphalerite – pyrite intergrowths



PD1. – PD1-10-20 – 32.55m
Refl Light – 500X

Very fine and very complex chalcopyrite and sphalerite inclusions in pyrite



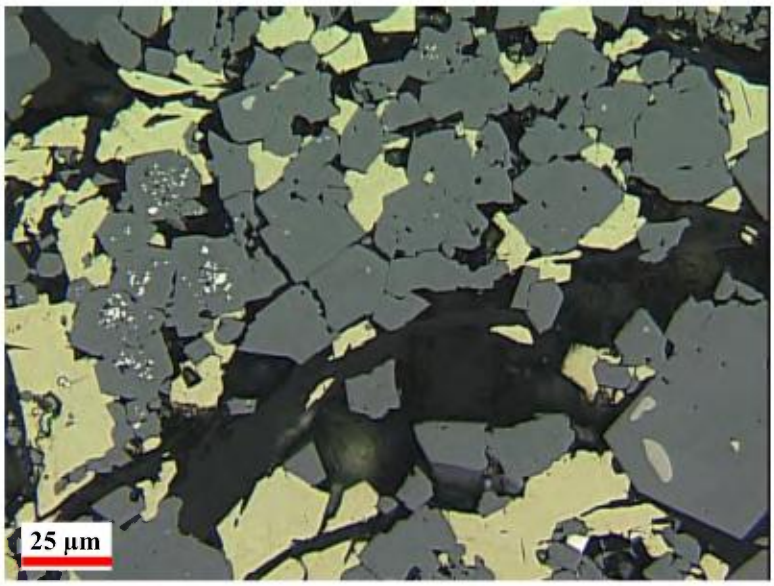
PD1. – PD1-10-20 – 43.15m
Refl Light – 500X

Very fine and very complex chalcopyrite and sphalerite inclusions in pyrite



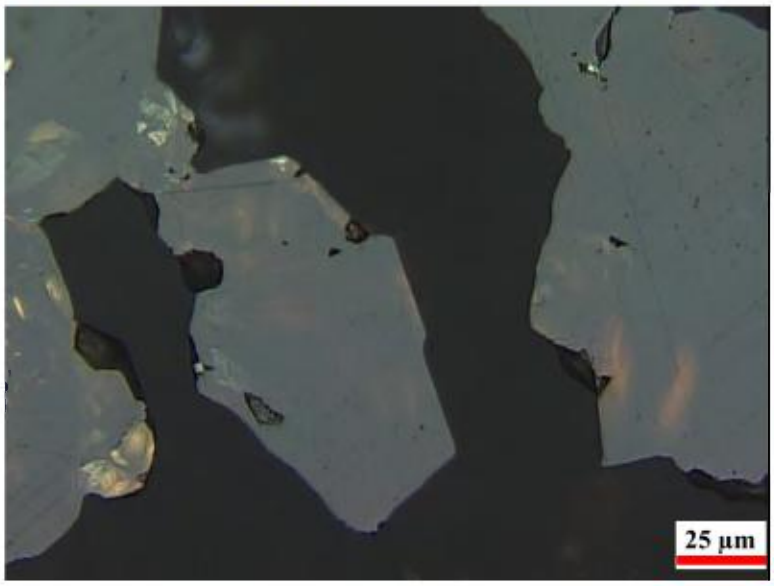
PD1. – PD1-10-20 – 61.2m
Refl Light – 500X

Chalcopyrite diseases in sphalerite



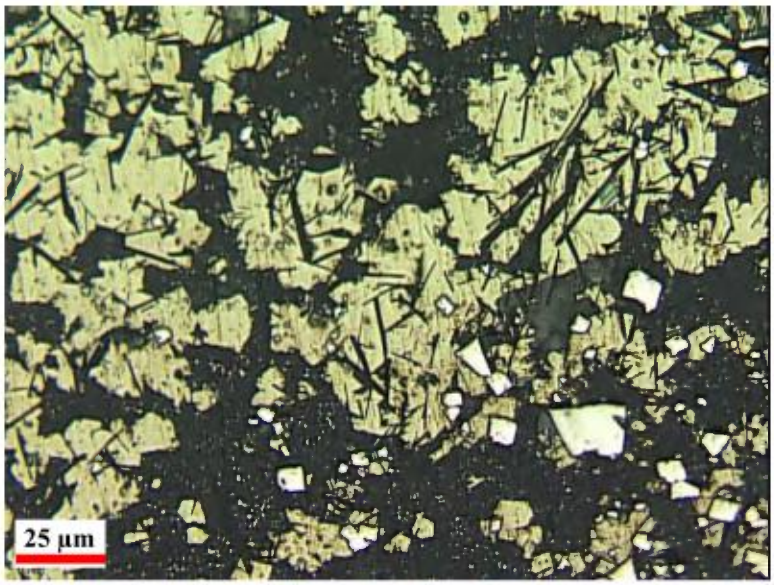
PD1. – PD1-10-23 – 28.9m
Refl Light – 500X

Very fine and complex chalcopyrite intergrowths with magnetite



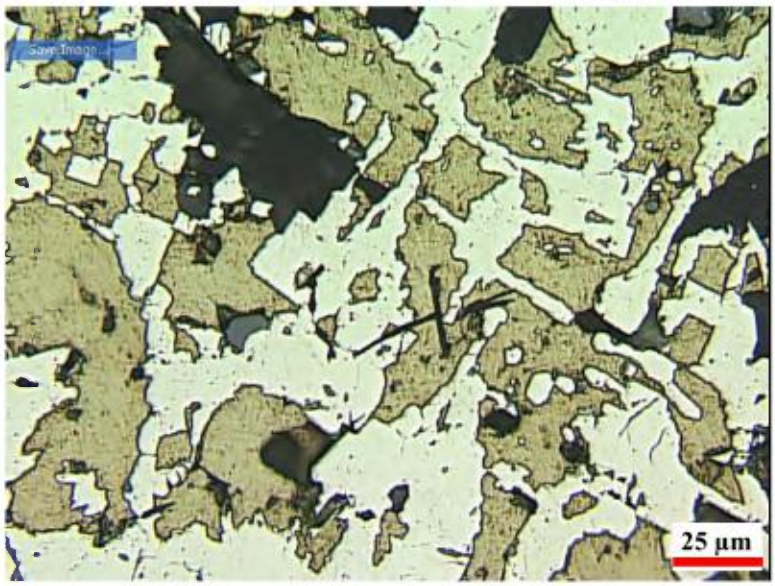
PD1. – PD1-10-18 – 67.5m
Refl Light – 500X

Uncommon, coarse and simple sphalerite - non-opaque gangue intergrowths



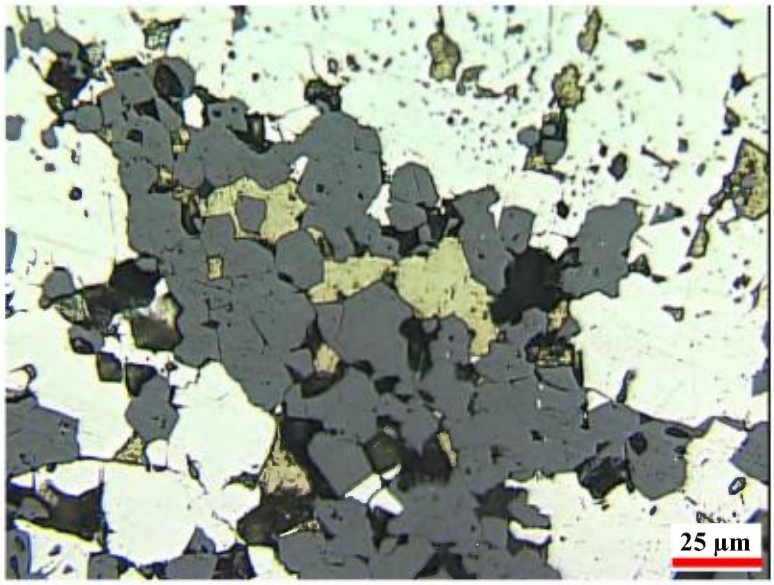
PD1. – PD1-10-26 – 36.6m
Refl Light – 500X

Complex chalcopyrite – non-opaque gangue intergrowths



PD1. – PD1-10-26 – 36.6m
Refl Light – 500X

Complex chalcopyrite – pyrite intergrowths



PD1. – PD1-10-19 – 73.05m
Refl Light – 500X

Complex, chalcopyrite – magnetite and chalcopyrite – pyrite intergrowths

APPENDIX 4
PD1 ORE MINERALIZATION

Electron Microprobe Analyses

Electron Microprobe Analyses of chalcopyrite grains

	Cu	Fe	Co	As	Ag	Bi	Te	Se	S	Total
Det. Limit 3 Sigma	**0.030**	**0.022**	**0.014**	**0.023**	**0.021**	**0.035**	**0.021**	**0.024**	**0.021**	
Det. Limit 2 Sigma	0.021	0.015	0.010	0.016	0.014	0.024	0.015	0.017	0.015	
Un 18 969144-cpy	34.74	30.38	0.009	0.000	0.006	0.000	0.000	0.019	35.079	100.23
Un 18 969144-cpy	34.65	30.74	0.000	0.000	0.000	0.000	0.000	0.000	35.390	100.78
Un 18 969144-cpy	34.24	30.50	0.000	0.000	0.000	0.000	0.000	0.021	34.900	99.66
Un 18 969144-cpy	34.61	30.62	0.004	0.000	0.002	0.000	0.016	0.005	34.896	100.15
Un 18 969144-cpy	34.24	30.48	0.000	0.000	0.000	0.000	0.011	0.000	35.132	99.86
Un 18 969144-cpy	34.34	30.41	0.002	0.000	0.000	0.000	0.000	0.000	35.061	99.81
Un 18 969144-cpy	34.20	30.34	0.000	0.000	0.000	0.000	0.016	0.012	34.990	99.55
Un 20 969126-cpy	34.47	30.68	0.005	0.000	0.006	0.000	0.000	0.012	35.007	100.18
Un 20 969126-cpy	34.36	30.63	0.000	0.000	0.013	0.000	0.000	0.029	35.172	100.21
Un 20 969126-cpy	34.47	30.51	0.017	0.000	0.000	0.000	0.000	0.000	35.113	100.11
Un 20 969126-cpy	34.40	30.30	0.000	0.000	0.000	0.000	0.000	0.000	34.784	99.49
Un 20 969126-cpy	34.43	30.33	0.000	0.000	0.011	0.000	0.003	0.021	34.915	99.71
Un 20 969126-cpy	34.26	30.24	0.004	0.000	0.000	0.000	0.000	0.014	34.650	99.16
Un 21 969051-cpy	34.26	29.73	0.000	0.000	0.002	0.000	0.000	0.000	35.078	99.08
Un 21 969051-cpy	34.28	30.09	0.000	0.000	0.000	0.000	0.000	0.000	35.129	99.51
Un 21 969051-cpy	34.56	30.58	0.002	0.000	0.000	0.000	0.000	0.000	34.940	100.08
Un 21 969051-cpy	34.44	30.60	0.000	0.000	0.003	0.000	0.000	0.000	34.929	99.97
Un 21 969051-cpy	34.54	30.48	0.000	0.000	0.000	0.000	0.006	0.000	34.901	99.92
Un 21 969051-cpy	34.56	30.61	0.000	0.000	0.000	0.000	0.000	0.000	34.817	99.99
Un 22 969040-cpy	34.85	30.86	0.000	0.000	0.003	0.000	0.015	0.000	34.956	100.69
Un 22 969040-cpy	34.71	30.67	0.000	0.000	0.000	0.097	0.000	0.000	35.176	100.65
Un 22 969040-cpy	34.55	30.70	0.004	0.000	0.009	0.000	0.000	0.000	35.206	100.47
Un 22 969040-cpy	34.08	30.58	0.003	0.000	0.011	0.000	0.000	0.000	35.236	99.91
Un 22 969040-cpy	34.78	30.79	0.000	0.000	0.003	0.000	0.008	0.000	35.081	100.66
Un 22 969040-cpy	34.64	30.58	0.003	0.000	0.000	0.000	0.000	0.000	34.997	100.23

Electron Microprobe Analyses of sphalerite grains

	Zn	Fe	Mn	Cd	Cu	S	Total
Det. Limit 3 Sigma	**0.033**	**0.018**	**0.013**	**0.031**	**0.013**	**0.018**	
Det. Limit 2 Sigma	0.023	0.013	0.009	0.022	0.009	0.012	
Un 6 969040 spal	60.50	6.54	0.00	0.14	0.03	33.13	100.35
Un 6 969040 spal	60.43	6.85	0.00	0.18	0.00	33.41	100.89
Un 6 969040 spal	60.86	6.45	0.00	0.17	0.03	33.21	100.73
Un 6 969040 spal	59.46	7.09	0.00	0.14	0.16	32.97	99.82
Un 6 969040 spal	59.37	7.17	0.00	0.13	0.05	33.19	99.91
Un 6 969040 spal	59.22	6.97	0.00	0.15	0.09	33.14	99.57
Un 6 969040 spal	60.08	6.15	0.00	0.19	0.16	33.19	99.76
Un 11 969051 spal	60.89	4.84	0.00	0.17	0.03	33.95	99.88
Un 11 969051 spal	60.42	5.01	0.00	0.15	0.10	33.72	99.41
Un 11 969051 spal	60.89	4.89	0.00	0.17	0.08	33.53	99.57
Un 11 969051 spal	61.37	4.65	0.00	0.19	0.16	33.20	99.58
Un 11 969051 spal	61.08	4.89	0.00	0.15	0.02	33.68	99.82
Un 11 969051 spal	61.69	5.11	0.00	0.16	0.06	33.39	100.40
Un 12 969126 spal	60.04	6.42	0.00	0.13	0.23	33.32	100.15
Un 12 969126 spal	58.82	7.50	0.00	0.12	0.43	33.66	100.53
Un 12 969126 spal	60.83	6.02	0.00	0.13	0.10	33.46	100.53
Un 12 969126 spal	60.36	6.22	0.00	0.12	0.02	33.39	100.11
Un 12 969126 spal	59.96	6.31	0.00	0.12	0.03	33.10	99.52
Un 12 969126 spal	60.13	6.27	0.00	0.13	0.03	33.43	99.99
Un 13 969144 spal	59.82	6.02	0.00	0.13	0.18	33.31	99.46
Un 13 969144 spal	59.74	6.32	0.00	0.13	0.11	33.30	99.58
Un 13 969144 spal	59.66	6.49	0.00	0.08	0.14	33.36	99.73
Un 13 969144 spal	60.25	6.13	0.00	0.11	0.06	33.71	100.26
Un 13 969144 spal	60.53	6.27	0.00	0.12	0.12	33.64	100.68
Un 13 969144 spal	59.73	6.54	0.00	0.12	0.48	33.41	100.27

Appendix VI: DRILL HOLE REPORTS

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-18** Project: **DONNER OPTION PHELPS** Project Number: **641**

Drilling

Azimuth:	30
Dip:	-60
Length:	111
Started:	19-janv-10
Completed:	19-janv-10
Logged:	21-janv-10

Casing

Length:	18.4
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	HQ
Storage:	Bell Allard Ra
Section:	1+00E
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	
Contractor:	Forages Rouillier
Spotted by:	Patrick Carr
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: Declination is -13.8° and field strength is 56702 nT based on CGRF for 49°45.63'N, 78°8.52'W on 21 Jan 2010.

Coordinate - Gemcom

East:	-18418.4
North:	17130.1
Elev.:	3009.43

Coordinate - UTM

East:	273725.73
North:	5516751.16
Elev.:	3009.43
Zone: 18	**NAD:** NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	202.00	-84.00	C		5670
0.00	30.00	-60.00	C	✔	
3.00	222.62	-84.63	G	✔	
6.00	222.21	-84.43	G	✔	
9.00	223.05	-84.35	G	✔	
12.00	222.68	-84.25	G	✔	
15.00	222.51	-84.53	G	✔	
54.00	225.90	-84.80	F	✔	5397
84.00	227.90	-84.60	F	✔	5741

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-18** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology		Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	18.40	**TUB**	***Casing***									
18.40	26.50	**V1D**	***Epidote Leucoxene Dacite***									
		10-20% 0.1-1 mm cloudy plagioclase, 15-20% purplish-gray interstitial quartz, in groundmass epidote-chlorite. 5% 0.5 mm matte beige rutile or titanite, also in agglomerated clusters up to 3 mm. 0.5 cm quartz-calcite veins 10 per meter jagged (probably filled joints) at 30°.										
		Zr/Ti vs Nb/Y classification (Pearce 1996): basalt										
26.50	34.00	**V1D**	***Sericite Dacite or Tonalite***									
		20% 0.1-0.2 mm plagioclase, 30-40% gray cryptocrystalline quartz, 10-15% sericite as beige cryptocrystalline groundmass and 0.05-0.1 mm specks (which might also be rutile). Quartz-calcite-filled joints at 50°. Upper contact is wavy flow band from 50° to 0°.										
		Zr/Ti vs Nb/Y classification (Pearce 1996): andesite, basaltic andesite										

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-18** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
34.00	46.50	**SM** ***Massive sulfides*** 90% pyrite. Remaining 10% is quartz-chlorite-magnetite occasional banding at 30° and clumps, with associated sphalerite and chalcopyrite locally up to 40% sph and 2% cpy, but which overall amount to trace content so far (45.4 m). Upper contact at 30° with 50% chloritized rock for 50 cm. Zr/Ti vs Nb/Y classification (Pearce 1996): andesite, basaltic andesite									
46.50	47.90	**V1D** ***Chlorite Sericite Dacite*** 20% 0.2 mm plagioclase, 20% 0.5-1 mm quartz, 30% 0.5 mm chlorite, 15-20% fine-grained sericite. A couple of 1 cm quartz-carb filled joints at 70-80°. 1-2% disseminated pyrite. Contacts wavy and irregular at 45-60°.									
47.90	65.40	**SM** ***Massive sulfides*** 90% pyrite-pyrrhotite. Some disseminated chalcopyrite as very fine-grained flecks, locally up to 3%. Thin wavy stringers of sphalerite (up to 1 cm), more frequent with depth, but no more than 0.5% of this portion. Magnetite is erratic.									

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-18** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
65.40	68.70	**T** ***Tuffite***									
		30% pyrite with black chlorite and quartz-carb, 40% cloudy silica breccia, 30% chloritized fine-grained tuff. 65.6--66.0: 90% soft black fine-grained chlorite, 5-10% disseminated pyrite and pyrrhotite. Zr/Ti vs Nb/Y classification (Pearce 1996): andesite, basaltic andesite									
68.70	90.20	**SM** ***Massive sulfides***									
		90% pyrite. Chalcopyrite disseminated and in stringers, locally up to 4% but overall maybe half that. Sphalerite in stringers with black chlorite, but overall not significant.									
90.20	104.60	**V1C** ***Sericite Dacite***									
		20% 0.5 mm plag, 20% 0.5 mm gray-blue quartz, 10% sericite, 5% chlorite, green accessory minerals and groundmass. 101.7--102.4: quartz vein with chlorite at 15°. It makes wavy appearances on either side for a meter and a half or so. Zr/Ti vs Nb/Y classification (Pearce 1996): andesite, basaltic andesite									

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-18** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
104.60	111.00	**PIPE** ***Pipe alteration zone*** Green to black soft aphantitic chlorite. Foliated at 30° and broken. Some quartz-calcite in the foliations, but not so much as to form bands or lines. Contact at 30°, with 20 cm of alternating 0.5 cm interfingered bands of dacite and chlorite. Zr/Ti vs Nb/Y classification (Pearce 1996): rhyolite, dacite									

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-18** Project: **DONNER OPTION PHELPS** Project Number: **641**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
21.00	21.20	0.20	0968551	ALS Chemex	VO10020506	43.47	12	10	7.25	12	2	0	0.66	0	0.18	0.03	11.85	100	40	14	2.00	-2.00	84	85
30.00	30.20	0.20	0968552	ALS Chemex	VO10020506	65.32	13	6	1.83	4	4	1	0.63	0	0.09	0.01	3.17	99	216	57	13.00	26.00	28	92
46.00	46.30	0.30	0968553	ALS Chemex	VO10020506	39.52	10	9	10.40	14	0	0	0.72	1	0.31	0.07	13.25	98	181	18	5.00	6.00	71	86
67.00	67.20	0.20	0968554	ALS Chemex	VO10020506	70.03	4	17	1.78	0	0	0	0.18	0	0.16	0.01	6.06	99	38	5	2.00	6.00	487	>10000
95.80	96.00	0.20	0968555	ALS Chemex	VO10020506	52.85	15	8	5.00	6	3	1	0.79	0	0.12	0.01	6.68	99	110	15	4.00	24.00	54	137
107.80	108.00	0.20	0968556	ALS Chemex	VO10020506	28.02	21	17	21.39	0	0	0	0.60	0	0.10	0.01	10.35	99	543	128	23.00	-2.00	225	416

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-18** Project: **DONNER OPTION PHELPS** Project Number: **641**

Assay Report (part 1 of 0)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Sg
33.00	34.00	1.00	0969001	ALS Chemex	VO10009949	0.01	0.00	0.18	<0.01	1.50	3
34.00	34.50	0.50	0969002	ALS Chemex	VO10009949	0.12	0.02	3.52	0.09	34.80	4
34.50	36.00	1.50	0969003	ALS Chemex	VO10009949	0.92	0.02	1.55	0.07	11.00	5
36.00	37.50	1.50	0969004	ALS Chemex	VO10009949	0.72	0.01	6.22	0.07	12.00	5
37.50	39.00	1.50	0969005	ALS Chemex	VO10009949	0.21	0.02	4.11	0.07	5.30	5
39.00	40.60	1.60	0969006	ALS Chemex	VO10009949	0.56	0.03	2.60	0.10	12.80	5
40.60	42.00	1.40	0969007	ALS Chemex	VO10009949	0.73	0.03	2.35	0.10	19.20	5
42.00	43.50	1.50	0969008	ALS Chemex	VO10009949	1.20	0.02	0.56	0.04	20.10	4
43.50	45.00	1.50	0969009	ALS Chemex	VO10009949	1.93	0.02	2.49	0.06	32.30	4
45.00	45.50	0.50	0969010	ALS Chemex	VO10009949	0.24	0.03	2.21	0.04	32.20	5
45.50	47.00	1.50	0969011	ALS Chemex	VO10009949	0.02	0.01	0.07	<0.01	0.40	3
47.00	47.90	0.90	0969012	ALS Chemex	VO10009949	0.01	0.01	0.04	<0.01	0.30	3
47.90	49.50	1.60	0969013	ALS Chemex	VO10009949	0.11	0.03	2.44	0.03	6.90	5
49.50	51.00	1.50	0969014	ALS Chemex	VO10009949	0.09	0.04	3.42	0.04	6.50	5
51.00	52.50	1.50	0969015	ALS Chemex	VO10009949	0.06	0.04	0.37	0.05	6.70	4
52.50	54.00	1.50	0969016	ALS Chemex	VO10009949	0.07	0.04	1.07	0.04	7.80	5
54.00	55.50	1.50	0969019	ALS Chemex	VO10009949	0.08	0.02	1.88	0.03	3.70	4
55.50	57.00	1.50	0969020	ALS Chemex	VO10009949	0.06	0.02	4.34	0.03	6.50	4
57.00	58.50	1.50	0969021	ALS Chemex	VO10009949	0.14	0.03	2.79	0.05	8.40	5
58.50	60.00	1.50	0969022	ALS Chemex	VO10009949	0.23	0.03	6.23	0.10	9.20	5
60.00	61.50	1.50	0969023	ALS Chemex	VO10009949	0.36	0.02	3.51	0.07	7.50	5
61.50	63.00	1.50	0969024	ALS Chemex	VO10009949	0.28	0.02	3.67	0.12	14.20	5
63.00	64.50	1.50	0969025	ALS Chemex	VO10009949	0.40	0.02	4.97	0.14	8.50	5
64.50	65.40	0.90	0969026	ALS Chemex	VO10009949	0.33	0.03	4.06	0.10	15.60	5
65.40	66.00	0.60	0969027	ALS Chemex	VO10009949	0.01	0.01	0.94	0.02	2.10	3
66.00	66.60	0.60	0969028	ALS Chemex	VO10009949	0.22	0.02	1.86	0.13	9.30	4
66.60	67.60	1.00	0969029	ALS Chemex	VO10009949	0.29	0.01	1.99	0.07	2.80	3
67.60	68.70	1.10	0969030	ALS Chemex	VO10009949	0.59	0.01	1.16	0.05	3.20	3
68.70	70.30	1.60	0969031	ALS Chemex	VO10009949	1.26	0.03	0.41	0.22	6.40	4
70.30	72.00	1.70	0969032	ALS Chemex	VO10014866	0.59	0.03	0.77	0.16	8.10	4

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-18** Project: **DONNER OPTION PHELPS** Project Number: **641**

Assay Report (part 1 of 0)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Sg
72.00	73.50	1.50	0969033	ALS Chemex	VO10014866	3.27	0.03	0.66	0.31	20.90	4
73.50	75.00	1.50	0969034	ALS Chemex	VO10014866	2.76	0.02	0.39	0.22	36.50	4
75.00	76.50	1.50	0969035	ALS Chemex	VO10014866	1.98	0.03	0.23	0.27	36.70	5
76.50	78.00	1.50	0969036	ALS Chemex	VO10014866	1.00	0.02	0.37	0.26	24.10	4
78.00	79.50	1.50	0969037	ALS Chemex	VO10014866	0.09	0.01	6.14	0.09	11.00	4
79.50	81.00	1.50	0969038	ALS Chemex	VO10014866	0.08	0.01	2.85	0.09	15.40	4
81.00	82.50	1.50	0969039	ALS Chemex	VO10014866	0.50	0.02	1.90	0.09	18.30	5
82.50	84.00	1.50	0969040	ALS Chemex	VO10014866	1.08	0.03	1.17	0.14	22.40	4
84.00	85.50	1.50	0969043	ALS Chemex	VO10014866	0.57	0.01	0.16	0.17	20.30	5
85.50	87.00	1.50	0969044	ALS Chemex	VO10014866	0.73	0.01	0.04	0.18	26.50	5
87.00	88.50	1.50	0969045	ALS Chemex	VO10014866	0.61	0.01	0.02	0.19	22.60	5
88.50	90.20	1.70	0969046	ALS Chemex	VO10014866	0.54	0.01	0.02	0.15	22.20	4
90.20	91.50	1.30	0969047	ALS Chemex	VO10014866	0.04	0.00	0.04	0.06	3.80	3
91.50	93.00	1.50	0969048	ALS Chemex	VO10014866	0.01	0.00	0.03	0.01	0.30	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-19** Project: **DONNER OPTION PHELPS** Project Number: **641**

Drilling

Azimuth:	198.62
Dip:	-84.8
Length:	106.7
Started:	22-janv-10
Completed:	22-janv-10
Logged:	23-janv-10

Casing

Length:	17.3
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	HQ
Storage:	Bell Allard Ra
Section:	3+00E
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	
Contractor:	Forages Rouillier
Spotted by:	Patrick Carr
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: CGRF values for 49°45.61'N, 78°8.47'W on 22 jan 2010 are -13.8° declination and 56701 nT field strength.

Coordinate - Gemcom

East:	-18360.5
North:	17096.2
Elev.:	3009.28

Coordinate - UTM

East:	273782.37
North:	5516715.2
Elev.:	3009.28
Zone:	18
NAD:	NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	202.00	-84.00	C		5670
0.00	198.62	-84.80	C	✔	
3.00	198.71	-84.38	G	✔	
6.00	198.71	-84.38	G	✔	
9.00	198.01	-84.49	G	✔	
12.00	198.29	-84.07	G	✔	
30.00	193.90	-85.00	F	✔	5622
60.00	192.10	-84.40	F	✔	5716
90.00	191.80	-84.60	F	✔	5640

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-19** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	17.30	**TUB** ***Casing***									
17.30	36.70	**V1D** ***Epidote Leucoxene Dacite***									

0.5 mm crystals: 30% white cloudy plagioclase, 20% purplish quartz, 5-10% chlorite, 1-5% rutile or titanite in matrix of interstitial epidote, sericite, chlorite. Quartz-calcite-filled joints 1 cm at 40 and 80°, 0.25 cm spidery sericite veins throughout.

Zr/Ti vs Nb/Y classification (Pearce 1996): basalt

Alteration Maj:	Type/Style/Intensity	Comment
17.30 - 36.70	Ser E	
17.30 - 36.70	Epi E	
17.30 - 36.70	Chl E	Extrait par algorithme

36.70	69.70	**V1D** ***Sericite Dacite***	0969049	66.50	68.00	1.50	0.01	0.01	0.05	0.02	2.70
			0969050	68.00	69.50	1.50	0.01	0.01	0.08	0.02	4.50

20% 0.1-0.2 mm plagioclase, 30-40% gray cryptocrystalline quartz, 10-15% sericite as beige cryptocrystalline groundmass and 0.05-0.1 mm specks (which might also be rutile). Quartz-calcite-filled joints at 50°. Upper contact is broken.

Zr/Ti vs Nb/Y classification (Pearce 1996): basalt

Alteration Maj:	Type/Style/Intensity	Comment

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		36.70 - 69.70 Ser ND Extrait par algorithme									
69.70	73.60	**SM** ***Massive sulfides***	0969051	69.50	70.00	0.50	8.78	0.02	0.89	0.16	15.80
		Overall 90% pyrite, 4% chalcopyrite, 6% black chlorite. Contacts and bedding at 30°. The uppermost 50 cm is 40% chalcopyrite, 50% chlorite dacite, 10% pyrite/pyrrhotite.	0969052	70.00	71.10	1.10	1.48	0.03	0.24	0.36	28.80
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***	0969053	71.10	72.00	0.90	0.61	0.02	0.06	0.10	16.80
		69.70 - 73.60 Chl ND Extrait par algorithme	0969054	72.00	73.60	1.60	1.18	0.02	0.45	0.15	35.80
73.60	75.00	**V1D** ***Chlorite Dacite***	0969055	73.60	75.00	1.40	0.06	0.01	0.58	0.03	2.10
		40-60% 0.5 mm plagioclase in aphanitic chlorite matrix.									
		Zr/Ti vs Nb/Y classification (Pearce 1996): basalt									
75.00	78.60	**SSM** ***Semi-massive sulfides***	0969056	75.00	76.50	1.50	0.15	0.01	1.27	0.01	1.30
		overall 45% pyrite, 5% chalcopyrite as quartz-carb 0.5-1 cm bands at 30° against more competent chloritized dacite.	0969057	76.50	78.00	1.50	0.29	0.01	0.29	0.07	2.80
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***	0969058	78.00	78.60	0.60	0.16	0.01	0.06	0.06	3.90

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-19** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		75.00 - 78.60 Chl L Extrait par algorithme									
78.60	90.10	**V1D** ***Epidote Leucoxene Dacite*** 40% 0.5 mm plag, 20% purplish cryptocrystalline quartz, 8-10% 0.5 mm chlorite in green epidote-chlorite matrix. 10% 0.1 mm rutile. Quartz-chl-filled 0.5-3 cm joints jagged at 60-80°. Trace disseminated pyrite. Zr/Ti vs Nb/Y classification (Pearce 1996): basalt	0969059	78.60	80.00	1.40	0.01	0.00	0.05	0.07	0.20
90.10	105.00	**V1B** ***Chlorite Sericite Rhyolite*** Contact at 40°. Zr/Ti vs Nb/Y classification (Pearce 1996): rhyolite, dacite									
105.00	106.70	**V1D** ***Chlorite Leucoxene Dacite*** 40% 0.75 mm plag, 20% 0.75 mm purplish quartz, 15% 0.5-0.75 mm chlorite in matrix epidote-chlorite. 10% 0.5 mm rutile. Similar to the unit above, but larger grain size. Contact at 30° with some pyrite and a splash of chalcopyrite.									

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-19** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		Zr/Ti vs Nb/Y classification (Pearce 1996): andesite, basaltic andesite									

Alteration Maj:	Type/Style/Intensity	Comment
105.00 - 106.70	Epi ND	
105.00 - 106.70	Chl ND	Extrait par algorithme

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-19** Project: **DONNER OPTION PHELPS** Project Number: **641**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
24.60	24.80	0.20	0968558	ALS Chemex	VO10020506	49.69	14	11	6.13	10	3	0	0.89	0	0.18	0.04	2.36	98	62	19	3.00	2.00	119	40
56.80	57.00	0.20	0968559	ALS Chemex	VO10020506	51.16	12	15	4.26	6	0	1	1.51	0	0.32	0.01	7.12	98	137	49	6.00	30.00	69	241
74.60	74.80	0.20	0968560	ALS Chemex	VO10020506	48.85	12	22	7.47	0	0	0	1.62	0	0.37	0.01	5.06	98	108	28	5.00	-2.00	11	528
81.00	81.20	0.20	0968561	ALS Chemex	VO10020506	46.74	12	17	3.82	7	2	0	1.61	0	0.22	0.01	8.04	98	127	36	5.00	-2.00	70	177
93.00	93.30	0.30	0968562	ALS Chemex	VO10020506	56.11	13	15	3.09	3	2	1	1.12	0	0.15	-0.01	4.12	98	273	111	14.00	14.00	66	164
105.50	105.69	0.19	0968563	ALS Chemex	VO10020506	65.30	8	15	3.38	2	0	0	0.52	0	0.11	0.01	4.07	100	76	11	3.00	8.00	514	64

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-19** Project: **DONNER OPTION PHELPS** Project Number: **641**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
66.50	68.00	1.50	0969049	ALS Chemex	VO10018165	0.01	0.01	0.05	0.02	2.70	3
68.00	69.50	1.50	0969050	ALS Chemex	VO10018165	0.01	0.01	0.08	0.02	4.50	3
69.50	70.00	0.50	0969051	ALS Chemex	VO10018165	8.78	0.02	0.89	0.16	15.80	3
70.00	71.10	1.10	0969052	ALS Chemex	VO10018165	1.48	0.03	0.24	0.36	28.80	4
71.10	72.00	0.90	0969053	ALS Chemex	VO10018165	0.61	0.02	0.06	0.10	16.80	4
72.00	73.60	1.60	0969054	ALS Chemex	VO10018165	1.18	0.02	0.45	0.15	35.80	4
73.60	75.00	1.40	0969055	ALS Chemex	VO10018165	0.06	0.01	0.58	0.03	2.10	3
75.00	76.50	1.50	0969056	ALS Chemex	VO10018165	0.15	0.01	1.27	0.01	1.30	4
76.50	78.00	1.50	0969057	ALS Chemex	VO10018165	0.29	0.01	0.29	0.07	2.80	4
78.00	78.60	0.60	0969058	ALS Chemex	VO10018165	0.16	0.01	0.06	0.06	3.90	4
78.60	80.00	1.40	0969059	ALS Chemex	VO10018165	0.01	0.00	0.05	0.07	0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-20** Project: **DONNER OPTION PHELPS** Project Number: **641**

Drilling
Azimuth: 196.71
Dip: -85.17
Length: 92
Started: 24-janv-10
Completed: 24-janv-10
Logged: 25-janv-10

Casing
Length: 20
Pulled: no
Capped: yes
Cemented:

Core
Dimension: HQ
Storage: Bell Allard Ra
Section: 1+00W
Hole Type DD

Location
Township: LA GAUCHETIERE
Claim No.: 4609131
NTS: 32 E/16
Hole: SURFACE

Other
Logged by: Patrick Carr
Relog by:
Contractor: Forages Rouillier
Spotted by: Gérald Gauthier
Surveyed:
Surveyed by:
Geophysics:
Geophysic Contractor:
Left in hole:
Making water:
Multi shot survey:

Comment: CGRF for 49°45.66'N 78°8.56'W on 24 jan 2010 gives -13.8° declination at 54631 nT total field.

Coordinate - Gemcom
East: -18471.7
North: 17155.5
Elev.: 3009.03

Coordinate - UTM
East: 273673.38
North: 5516778.46
Elev.: 3009.03
Zone: 18 **NAD:** NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	202.00	-84.00	C		5463
0.00	196.71	-85.17	C	✔	
3.00	195.34	-84.77	G	✔	
6.00	195.64	-84.52	G	✔	
9.00	194.83	-84.29	G	✔	
12.00	194.82	-84.19	G	✔	
15.00	195.52	-84.15	G	✔	
30.00	193.30	-84.60	F	✔	5556
60.00	287.20	-84.40	F		3719?
90.00	197.30	-84.50	F	✔	5807

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-20** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	20.00	**TUB** ***Casing***									
20.00	31.80	**V1D** ***Chlorite Dacite*** 60% 0.5 mm gray square plagioclase, 10-15% 0.1-0.2 mm gray quartz, 15-20% 0.5-0.75 mm chlorite. 5% 1-5 mm quartz-filled veins at 60-80°. Zr/Ti vs Nb/Y classification (Pearce 1996): andesite, basaltic andesite	0969062	30.30	31.80	1.50	0.02	0.01	0.11	<0.01	0.60
31.80	32.20	**T1** ***Chlorite Felsic tuff*** 50% tuff, 40% chlorite 10% pyrite and pyrrhotite, trace sphalerite. Zr/Ti vs Nb/Y classification (Pearce 1996): andesite, basaltic andesite	0969063	31.80	32.20	0.40	0.07	0.06	1.16	0.04	6.20

Alteration Maj:	*Type/Style/Intensity*	*Comment*
31.80 - 32.20	Chl ND	Extrait par algorithme

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-20** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
32.20	50.50	**SM** ***Massive sulfides***	0969064	32.20	32.70	0.50	0.29	0.08	15.35	0.09	8.40
		85% pyrite, 5% sphalerite, 4% chalcopyrite. Upper contact at 30°	0969065	32.70	33.50	0.80	0.02	0.01	0.14	<0.01	0.50
		32.2--32.7: 25% sphalerite	0969066	33.50	35.00	1.50	0.25	0.08	0.94	0.11	19.40
		32.7--33.5: dacite or tuff no sulfides, upper contact at 85°, lower at 30° and broken.	0969067	35.00	36.00	1.00	1.12	0.03	0.80	0.13	13.80
		50.3--50.5: 40% pyrite, 20% sphalerite, rest is quartz-chl	0969068	36.00	37.50	1.50	0.77	0.10	1.14	0.12	14.60
			0969069	37.50	39.00	1.50	0.81	0.03	0.94	0.17	21.00
			0969070	39.00	40.50	1.50	2.00	0.03	0.18	0.13	20.20
			0969071	40.50	42.00	1.50	2.01	0.08	3.35	0.13	24.80
			0969074	42.00	43.30	1.30	2.13	0.25	4.68	0.12	31.00
			0969075	43.30	45.00	1.70	1.53	0.07	9.37	0.10	22.10
			0969076	45.00	46.50	1.50	0.73	0.03	1.90	0.11	13.20
			0969077	46.50	48.00	1.50	0.26	0.04	3.13	0.11	7.90
			0969078	48.00	48.70	0.70	0.24	0.03	6.68	0.11	4.60
			0969079	48.70	50.50	1.80	0.13	0.03	9.92	0.07	4.60
50.50	53.00	**V1D** ***Chlorite Epidote Dacite***	0969080	50.50	52.00	1.50	0.01	0.01	0.09	<0.01	0.20
		0.5 mm grain size: 40% plag, 20% quartz, 15% chlorite in green matrix chlorite epidote. A few quartz-filled joints at 60-80°.	0969081	52.00	53.00	1.00	0.01	0.00	0.05	<0.01	0.20
		Zr/Ti vs Nb/Y classification (Pearce 1996): andesite, basaltic andesite									

Alteration Maj:	*Type/Style/Intensity*		*Comment*
50.50 - 53.00	Epi	ND	
50.50 - 53.00	Chl	ND	Extrait par algorithme

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-20** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
53.00	53.70	**SM** ***Massive sulfides*** 90% pyrite, 4% chalcopyrite.	0969082	53.00	53.70	0.70	0.08	0.02	3.61	0.06	2.60
53.70	55.00	**SSM** ***Semi-massive sulfides*** 40% pyrite, 10% sphalerite as spidery stringers in cloudy quartz matrix (top half) and chloritized dacite (bottom half).	0969083	53.70	54.30	0.60	0.02	0.01	1.63	0.02	0.90
			0969084	54.30	55.00	0.70	0.05	0.03	1.66	0.05	2.40
		Alteration Maj: ***Type/Style/Intensity*** ***Comment*** 53.70 - 55.00 Chl ND Extrait par algorithme									
55.00	62.60	**SM** ***Massive sulfides*** 85% pyrite, 5% sphalerite, 4% chalcopyrite.	0969085	55.00	56.00	1.00	0.25	0.04	2.70	0.13	5.00
			0969086	56.00	57.00	1.00	0.14	0.04	2.78	0.11	4.30
			0969087	57.00	58.50	1.50	0.17	0.05	3.43	0.15	4.50
			0969088	58.50	60.00	1.50	0.13	0.06	3.88	0.09	5.00
			0969089	60.00	61.40	1.40	0.25	0.06	3.31	0.09	4.80
			0969090	61.40	62.60	1.20	0.31	0.05	0.12	0.09	5.30
62.60	65.80	**SSM** ***Semi-massive sulfides*** 60% pyrite, 4% chalcopyrite, trace spahlerite in matrix of cloudy quartz as coarse-grained bands with black chlorite at 60°.	0969091	62.60	64.30	1.70	0.10	0.04	0.55	0.05	6.50
			0969092	64.30	65.80	1.50	0.66	0.04	0.06	0.12	12.10
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-20** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		62.60 - 65.80 Chl L Extrait par algorithme									
65.80	67.30	**PIPE** ***Pipe alteration zone***	0969095	65.80	67.30	1.50	0.35	0.00	0.06	<0.01	0.80
		Aphanitic black chlorite. Trace pyrite-chalcopyrite stringers at 45°.									
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		65.80 - 67.30 Chl ND Extrait par algorithme									
67.30	71.60	**I1D** ***Chlorite Leucoxene Tonalite or Dacite***	0969096	67.30	69.00	1.70	0.01	0.00	0.04	<0.01	<0.20
		70% 0.75-1 mm plagioclase, 20% 0.5-0.75 mm gray quartz, 5% 0.75 mm chlorite, 2-5% rutile flecks. A couple of 2-15 cm quartz-filled joints at 45-60°. Contacts broken, possible at 45°.									
		Zr/Ti vs Nb/Y classification (Pearce 1996): andesite, basaltic andesite									
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		67.30 - 71.60 Chl ND Extrait par algorithme									

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-20** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
71.60	92.00	**PIPE** ***Pipe alteration zone***	0969097	72.80	73.70	0.90	0.01	0.00	0.08	0.02	0.50
		Black and green soft chlorite, foliation at 30-40°.	0969098	73.70	74.90	1.20	0.35	0.00	0.08	0.03	1.20
		74.9--75.4: 75-80% py/po	0969099	74.90	75.40	0.50	0.04	0.00	0.02	0.05	1.40
		79.8--82.8: 50% py/po in swirly bands and clots.	0969100	75.40	76.90	1.50	0.07	0.00	0.03	<0.01	<0.20
		73.2: Zr/Ti vs Nb/Y classification (Pearce 1996): rhyolite, dacite	0969101	76.90	78.00	1.10	0.20	0.00	0.02	<0.01	<0.20
		81.3: Zr/Ti vs Nb/Y classification (Pearce 1996): andesite, basaltic andesite (sample was quartz stringer in pipe)	0969102	78.00	79.40	1.40	0.01	0.00	0.02	<0.01	<0.20
		87.5: Zr/Ti vs Nb/Y classification (Pearce 1996): rhyolite, dacite	0969103	79.40	80.80	1.40	0.12	0.00	0.03	<0.01	0.20
		89.6: Zr/Ti vs Nb/Y classification (Pearce 1996): rhyolite, dacite	0969104	80.80	82.30	1.50	0.02	0.00	0.02	0.02	0.60
			0969105	82.30	83.30	1.00	0.13	0.00	0.04	0.01	1.20
			0969106	83.30	84.80	1.50	0.43	0.00	0.05	0.01	0.80

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-20** Project: **DONNER OPTION PHELPS** Project Number: **641**

Whole Rock (part 1 of 1)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Sio2* (%)	*Al2o3* (%)	*Fe2o3* (%)	*Mgo* (%)	*Cao* (%)	*Na2o* (%)	*K2o* (%)	*Tio2* (%)	*P2o5* (%)	*Mno* (%)	*Cr2o3* (%)	*Loi* (%)	*Total* (%)	*Zr* (ppm)	*Y* (ppm)	*Nb* (ppm)	*Rb* (ppm)	*Cu* (ppm)	*Zn* (ppm)
26.70	27.00	0.30	0968564	ALS Chemex	VO10020506	61.15	13	9	2.77	4	3	1	0.89	0	0.09	0.01	4.11	98	258	114	22.00	23.00	19	145
31.80	32.00	0.20	0968565	ALS Chemex	VO10020506	43.26	13	25	7.86	1	0	0	1.32	0	0.30	0.02	6.69	99	95	33	6.00	24.00	229	632
52.30	52.50	0.20	0968566	ALS Chemex	VO10020506	37.62	8	8	10.09	17	0	0	0.59	1	0.31	0.09	16.25	98	142	16	4.00	-2.00	60	176
68.40	68.60	0.20	0968567	ALS Chemex	VO10020506	49.50	15	8	5.37	7	1	2	0.81	0	0.20	0.01	8.70	99	98	20	4.00	48.00	78	206
73.20	73.40	0.20	0968568	ALS Chemex	VO10020506	26.91	19	24	18.01	0	0	0	0.96	0	0.16	0.01	9.59	98	209	71	6.00	-2.00	11	414
81.30	81.50	0.20	0968569	ALS Chemex	VO10020506	34.67	5	17	20.10	6	0	0	0.25	0	0.32	0.01	11.20	95	50	18	2.00	2.00	89	148
87.50	87.70	0.20	0968570	ALS Chemex	VO10020506	27.64	20	16	22.36	0	0	0	0.88	0	0.17	0.01	10.55	98	194	136	5.00	11.00	11	450
89.60	89.80	0.20	0968571	ALS Chemex	VO10020506	36.13	28	10	10.61	0	0	5	1.40	0	0.10	0.01	7.28	98	311	69	5.00	105.00	7	249

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-20** Project: **DONNER OPTION PHELPS** Project Number: **641**

Assay Report (part 1 of 0)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Sg
30.30	31.80	1.50	0969062	ALS Chemex	VO10018165	0.02	0.01	0.11	<0.01	0.60	3
31.80	32.20	0.40	0969063	ALS Chemex	VO10018165	0.07	0.06	1.16	0.04	6.20	3
32.20	32.70	0.50	0969064	ALS Chemex	VO10018165	0.29	0.08	15.35	0.09	8.40	4
32.70	33.50	0.80	0969065	ALS Chemex	VO10018165	0.02	0.01	0.14	<0.01	0.50	3
33.50	35.00	1.50	0969066	ALS Chemex	VO10018165	0.25	0.08	0.94	0.11	19.40	5
35.00	36.00	1.00	0969067	ALS Chemex	VO10018165	1.12	0.03	0.80	0.13	13.80	4
36.00	37.50	1.50	0969068	ALS Chemex	VO10018165	0.77	0.10	1.14	0.12	14.60	4
37.50	39.00	1.50	0969069	ALS Chemex	VO10018165	0.81	0.03	0.94	0.17	21.00	5
39.00	40.50	1.50	0969070	ALS Chemex	VO10018165	2.00	0.03	0.18	0.13	20.20	5
40.50	42.00	1.50	0969071	ALS Chemex	VO10018165	2.01	0.08	3.35	0.13	24.80	4
42.00	43.30	1.30	0969074	ALS Chemex	VO10018165	2.13	0.25	4.68	0.12	31.00	4
43.30	45.00	1.70	0969075	ALS Chemex	VO10018165	1.53	0.07	9.37	0.10	22.10	5
45.00	46.50	1.50	0969076	ALS Chemex	VO10018165	0.73	0.03	1.90	0.11	13.20	5
46.50	48.00	1.50	0969077	ALS Chemex	VO10018165	0.26	0.04	3.13	0.11	7.90	5
48.00	48.70	0.70	0969078	ALS Chemex	VO10018165	0.24	0.03	6.68	0.11	4.60	5
48.70	50.50	1.80	0969079	ALS Chemex	VO10020509	0.13	0.03	9.92	0.07	4.60	4
50.50	52.00	1.50	0969080	ALS Chemex	VO10020509	0.01	0.01	0.09	<0.01	0.20	3
52.00	53.00	1.00	0969081	ALS Chemex	VO10020509	0.01	0.00	0.05	<0.01	0.20	3
53.00	53.70	0.70	0969082	ALS Chemex	VO10020509	0.08	0.02	3.61	0.06	2.60	5
53.70	54.30	0.60	0969083	ALS Chemex	VO10020509	0.02	0.01	1.63	0.02	0.90	3
54.30	55.00	0.70	0969084	ALS Chemex	VO10020509	0.05	0.03	1.66	0.05	2.40	4
55.00	56.00	1.00	0969085	ALS Chemex	VO10020509	0.25	0.04	2.70	0.13	5.00	5
56.00	57.00	1.00	0969086	ALS Chemex	VO10020509	0.14	0.04	2.78	0.11	4.30	5
57.00	58.50	1.50	0969087	ALS Chemex	VO10020509	0.17	0.05	3.43	0.15	4.50	5
58.50	60.00	1.50	0969088	ALS Chemex	VO10020509	0.13	0.06	3.88	0.09	5.00	5
60.00	61.40	1.40	0969089	ALS Chemex	VO10020509	0.25	0.06	3.31	0.09	4.80	5
61.40	62.60	1.20	0969090	ALS Chemex	VO10020509	0.31	0.05	0.12	0.09	5.30	4
62.60	64.30	1.70	0969091	ALS Chemex	VO10020509	0.10	0.04	0.55	0.05	6.50	3
64.30	65.80	1.50	0969092	ALS Chemex	VO10020509	0.66	0.04	0.06	0.12	12.10	4
65.80	67.30	1.50	0969095	ALS Chemex	VO10020509	0.35	0.00	0.06	<0.01	0.80	3

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-20** Project: **DONNER OPTION PHELPS** Project Number: **641**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
67.30	69.00	1.70	0969096	ALS Chemex	VO10020509	0.01	0.00	0.04	<0.01	<0.20	3
72.80	73.70	0.90	0969097	ALS Chemex	VO10020509	0.01	0.00	0.08	0.02	0.50	3
73.70	74.90	1.20	0969098	ALS Chemex	VO10020509	0.35	0.00	0.08	0.03	1.20	3
74.90	75.40	0.50	0969099	ALS Chemex	VO10020509	0.04	0.00	0.02	0.05	1.40	4
75.40	76.90	1.50	0969100	ALS Chemex	VO10020509	0.07	0.00	0.03	<0.01	<0.20	3
76.90	78.00	1.10	0969101	ALS Chemex	VO10020509	0.20	0.00	0.02	<0.01	<0.20	3
78.00	79.40	1.40	0969102	ALS Chemex	VO10020509	0.01	0.00	0.02	<0.01	<0.20	3
79.40	80.80	1.40	0969103	ALS Chemex	VO10020509	0.12	0.00	0.03	<0.01	0.20	3
80.80	82.30	1.50	0969104	ALS Chemex	VO10020509	0.02	0.00	0.02	0.02	0.60	4
82.30	83.30	1.00	0969105	ALS Chemex	VO10020509	0.13	0.00	0.04	0.01	1.20	3
83.30	84.80	1.50	0969106	ALS Chemex	VO10020509	0.43	0.00	0.05	0.01	0.80	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-22** Project: **DONNER OPTION PHELPS** Project Number: **641**

Drilling

Azimuth:	200.84
Dip:	-45.33
Length:	78
Started:	10-févr-10
Completed:	11-févr-10
Logged:	11-févr-10

Casing

Length:	30
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Bell Allard Ra
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	Richard Nieminen
Contractor:	Forages Rouillier
Spotted by:	Patrick Carr
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: CGRF values for 49° 45.62'N, 78°8.50'W on 10 feb. 2010 are a declination of -13.9° and a total field of 56742 nT.

Coordinate - Gemcom

East:	-18390.48
North:	17115.07
Elev.:	3008.05

Coordinate - UTM

East:	273753.09		
North:	5516735.14		
Elev.:	3008.05		
Zone:	18	**NAD:**	NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	202.00	-45.00	C		5674
0.00	200.84	-45.33	C	✔	
3.00	200.71	-44.87	G	✔	
6.00	200.52	-44.84	G	✔	
9.00	200.63	-44.77	G	✔	
12.00	200.82	-44.66	G	✔	
15.00	200.97	-44.50	G	✔	
18.00	201.02	-44.46	G	✔	
21.00	201.28	-44.52	G	✔	
24.00	201.63	-44.49	G	✔	
39.00	195.10	-44.20	F		6078

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-22** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	31.70	**TUB** *Casing*									
31.70	39.60	**SM** *Massive sulfides* 90% pyrite, 1-2% chalcopyrite, trace sphalerite. Rest is quartz-chlorite. *Alteration Maj:* / *Type/Style/Intensity* / *Comment* 31.70 - 39.60 Chl ND Extrait par algorithme	0969109	31.70	33.00	1.30	3.77	0.04	2.20	0.30	29.00
			0969110	33.00	34.50	1.50	0.66	0.06	1.83	0.12	13.90
			0969111	34.50	36.00	1.50	0.71	0.02	2.65	0.07	3.00
			0969112	36.00	37.10	1.10	0.63	0.01	4.22	0.07	3.60
			0969113	37.10	38.40	1.30	0.40	0.01	1.73	0.11	3.80
			0969114	38.40	39.60	1.20	1.02	0.02	0.60	0.12	9.00
39.60	78.00	**V3B** *Basalt* BASALT (Possibly chloritized andesite?), massive, fine grained, dark to medium green, quartz eyes or tiny amygdules (1mm/0.3-0.5%), leucoxene. Pat: 20% 0.2 mm plagioclase -> chlorite, 20% 0.2-0.4 mm blue quartz, 10% 0.2-0.4 mm chlorite, 2-4% rutile or titanite as 0.05 mm flecks and larger (up to 1 mm) agglomerations. Quartz-chl-filled joints at 50-70° ± hematite. 51.0: Zr/Ti vs Nb/Y classification (Pearce 1996): andesite, basaltic andesite 71.9: Zr/Ti vs Nb/Y classification (Pearce 1996): basalt, if contact maybe at ~57.5 m or 67.8? *Alteration Maj:* / *Type/Style/Intensity* / *Comment* 39.60 - 78.00 Hem ND 39.60 - 78.00 Chl ND Extrait par algorithme	0969115	39.60	40.20	0.60	0.03	0.00	0.05	<0.01	7.80

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-22** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)

Structure Maj.:	Type/Core Angle	Comment
62.50 - 62.52	fai 70	With mud.

Minor Interval:

39.60 39.85 PIPE *Pipe alteration zone*

PIPE with a possible fault from observation of mud in broken-up core.

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-22** Project: **DONNER OPTION PHELPS** Project Number: **641**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
51.00	51.10	0.10	0968603	ALS Chemex	VO10024541	48.51	13	18	2.71	5	2	0	1.73	0	0.17	0.01	6.45	99	180	52	8.00	6.00	61	169
71.90	72.00	0.10	0968604	ALS Chemex	VO10024541	48.00	12	16	5.40	7	2	0	1.52	0	0.23	0.01	8.50	100	110	35	5.00	-2.00	36	156

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-22** Project: **DONNER OPTION PHELPS** Project Number: **641**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
31.70	33.00	1.30	0969109	ALS Chemex	VO10020507	3.77	0.04	2.20	0.30	29.00	5
33.00	34.50	1.50	0969110	ALS Chemex	VO10020507	0.66	0.06	1.83	0.12	13.90	5
34.50	36.00	1.50	0969111	ALS Chemex	VO10020507	0.71	0.02	2.65	0.07	3.00	5
36.00	37.10	1.10	0969112	ALS Chemex	VO10020507	0.63	0.01	4.22	0.07	3.60	4
37.10	38.40	1.30	0969113	ALS Chemex	VO10020507	0.40	0.01	1.73	0.11	3.80	4
38.40	39.60	1.20	0969114	ALS Chemex	VO10020507	1.02	0.02	0.60	0.12	9.00	4
39.60	40.20	0.60	0969115	ALS Chemex	VO10020507	0.03	0.00	0.05	<0.01	7.80	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-23** Project: **DONNER OPTION PHELPS** Project Number: **641**

Drilling

Azimuth:	199.37
Dip:	-44.81
Length:	60
Started:	11-févr-10
Completed:	15-févr-10
Logged:	11-févr-10

Casing

Length:	26
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Bell Allard Ra
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	Richard Nieminen
Contractor:	Forages Rouillier
Spotted by:	Patrick Carr
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: CGRF values for 49°45.64'N, 78° 8.54'W on 11 feb 2010 are a declination of -13.9° and a total field of 56742 nT.

Coordinate - Gemcom

East:	-18444.63
North:	17135.04
Elev.:	3007.65

Coordinate - UTM

East:	273699.69
North:	5516757.04
Elev.:	3007.65
Zone: 18	**NAD:** NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	202.00	-45.00	C		5674
0.00	199.37	-44.81	C	✔	
3.00	199.34	-44.33	G	✔	
6.00	199.21	-43.96	G	✔	
9.00	198.86	-44.20	G	✔	
12.00	198.73	-44.56	G	✔	
15.00	198.69	-44.66	G	✔	
18.00	198.77	-44.12	G	✔	
21.00	198.97	-43.73	G	✔	
30.00	205.00	-43.50	F		5349

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-23** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	26.00	**TUB** ***Casing***									
26.00	29.90	**SM** ***Massive sulfides*** 70% pyrite, 5-10% spahlerite, trace to 1% chalcopyrite in tumbly bands 0.25-0.5 cm at 60°. Matrix is black chlorite ± quartz. Upper 50 cm is pitted and oxidized. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 26.00 - 29.90 Chl L Extrait par algorithme	0969116	26.00	27.00	1.00	1.25	0.07	1.96	0.10	16.00
			0969117	27.00	28.50	1.50	1.28	0.03	2.84	0.16	19.10
			0969118	28.50	29.90	1.40	1.64	0.02	4.33	0.15	22.70
29.90	31.80	**V2J** ***Andesite*** ANDESITE Massive. Pat: ANORTHOSITE. Blue-gray, 40% 0.5-1.5 mm plagioclase phenocrysts in matrix 50% 0.2-0.5 mm plagioclase and black minerals. Possibly a rhyolite, but quite unaltered. Upper contact at 50°, lower at 60°; both are finer-grained. Zr/Ti vs Nb/Y classification (Pearce 1996): andesite, basaltic andesite	0969119	29.90	31.80	1.90	0.02	0.00	0.05	<0.01	0.20

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-23** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
31.80	39.60	**SM** ***Massive sulfides***	0969120	31.80	33.00	1.20	1.55	0.06	5.13	0.11	7.70
		Overall 90% pyrite, 5-8% sphalerite, maybe 1% chaclopyrite.	0969121	33.00	34.50	1.50	1.15	0.04	1.25	0.14	12.80
		36.5--36.9: qtz-carb-pyrite. Some chalco.	0969122	34.50	36.00	1.50	1.22	0.02	1.24	0.11	15.60
		RLN: some "banded" quartz veins and fragments (5-7%).	0969123	36.00	37.50	1.50	1.86	0.02	2.71	0.06	9.60
			0969126	37.50	39.00	1.50	2.48	0.01	2.74	0.03	2.70
			0969127	39.00	39.60	0.60	0.31	0.01	0.22	0.04	2.70
39.60	50.90	**SSM** ***Semi-massive sulfides***	0969128	39.60	40.30	0.70	0.15	0.01	0.10	0.01	1.60
		43.20 - 43.50: litho gives DACITE	0969129	40.30	42.00	1.70	0.55	0.01	0.06	0.04	5.20
		Pat: overall 50% sulfide. Mostly pyrite, trace chalco and sphalerite. Rest of the rock is chlorite pipe ± quartz-carb snakeskin texture. Sulfide is in stringer banding at 60°, and as massive portions 30-80 cm.	0969130	42.00	43.50	1.50	0.33	0.01	0.07	0.07	2.40
			0969131	43.50	45.00	1.50	0.04	0.01	0.07	0.02	1.20
		Chlorite pipe unclassifiable.	0969132	45.00	46.50	1.50	0.91	0.08	0.56	0.08	3.20
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***	0969133	46.50	48.00	1.50	0.30	0.02	0.06	0.05	2.60
		39.85 - 40.30 Sil E	0969134	48.00	49.50	1.50	0.34	0.01	0.04	0.01	1.20
		41.40 - 42.50 Sil E	0969135	49.50	50.90	1.40	0.70	0.02	0.17	0.08	2.50
		43.20 - 43.50 Chl L Extrait par algorithme									
		Minor Interval:									
		39.60 39.85 PIPE *Pipe alteration zone*									
		PIPE									

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-23** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		Minor Interval: 43.00 45.40 PIPE *Pipe alteration zone* PIPE or STRON CHLORITIZATION - DACITE ***Alteration Min:*** ***Type/Style/Intensity*** ***Comment*** 43.00 - 45.40 Chl ND Extrait par algorithme									
50.90	60.00	**V1D** ***Dacite*** DACITE (from litho sampling). Massive dacite carrying quartz eyes (1.3mm/1%) very small and rare in the 2-3 upper metres. Pervasive moderate to weak chloritizations. Pat: CHLORITE LEUCOXENE RHYOLITE or DACITE. 75% 0.5 mm plagioclase phenocrysts in matrix plagioclase, qtz, carb, chlorite. 1-2% flecks of leucoxene. Upper 60 cm is broken chlorite pipe material followed up 2 m of finer-grained material. Zr/Ti vs Nb/Y classification (Pearce 1996): rhyolite, dacite ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 50.90 - 60.00 Chl E Extrait par algorithme	0969136	50.90	52.50	1.60	0.01	0.00	0.05	<0.01	0.20

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-23** Project: **DONNER OPTION PHELPS** Project Number: **641**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
30.00	30.30	0.30	0968605	ALS Chemex	VO10024541	41.63	11	11	11.12	11	0	0	0.78	1	0.50	0.06	12.25	100	176	21	6.00	-2.00	32	277
43.20	43.50	0.30	0968606	ALS Chemex	VO10024541	25.94	14	17	18.30	8	0	0	0.02	6	0.09	0.01	8.54	98	7	654	3.00	10.00	26	3480
56.90	57.00	0.10	0968607	ALS Chemex	VO10024541	65.24	11	8	2.41	4	4	0	0.94	0	0.09	-0.01	4.00	100	311	140	30.00	-2.00	9	68

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-23** Project: **DONNER OPTION PHELPS** Project Number: **641**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
26.00	27.00	1.00	0969116	ALS Chemex	VO10020508	1.25	0.07	1.96	0.10	16.00	4
27.00	28.50	1.50	0969117	ALS Chemex	VO10020508	1.28	0.03	2.84	0.16	19.10	4
28.50	29.90	1.40	0969118	ALS Chemex	VO10020508	1.64	0.02	4.33	0.15	22.70	4
29.90	31.80	1.90	0969119	ALS Chemex	VO10020508	0.02	0.00	0.05	<0.01	0.20	3
31.80	33.00	1.20	0969120	ALS Chemex	VO10020508	1.55	0.06	5.13	0.11	7.70	5
33.00	34.50	1.50	0969121	ALS Chemex	VO10020508	1.15	0.04	1.25	0.14	12.80	4
34.50	36.00	1.50	0969122	ALS Chemex	VO10020508	1.22	0.02	1.24	0.11	15.60	4
36.00	37.50	1.50	0969123	ALS Chemex	VO10020508	1.86	0.02	2.71	0.06	9.60	4
37.50	39.00	1.50	0969126	ALS Chemex	VO10020508	2.48	0.01	2.74	0.03	2.70	4
39.00	39.60	0.60	0969127	ALS Chemex	VO10020508	0.31	0.01	0.22	0.04	2.70	4
39.60	40.30	0.70	0969128	ALS Chemex	VO10020508	0.15	0.01	0.10	0.01	1.60	3
40.30	42.00	1.70	0969129	ALS Chemex	VO10020508	0.55	0.01	0.06	0.04	5.20	4
42.00	43.50	1.50	0969130	ALS Chemex	VO10020508	0.33	0.01	0.07	0.07	2.40	4
43.50	45.00	1.50	0969131	ALS Chemex	VO10020508	0.04	0.01	0.07	0.02	1.20	3
45.00	46.50	1.50	0969132	ALS Chemex	VO10020508	0.91	0.08	0.56	0.08	3.20	4
46.50	48.00	1.50	0969133	ALS Chemex	VO10020508	0.30	0.02	0.06	0.05	2.60	3
48.00	49.50	1.50	0969134	ALS Chemex	VO10020508	0.34	0.01	0.04	0.01	1.20	4
49.50	50.90	1.40	0969135	ALS Chemex	VO10020508	0.70	0.02	0.17	0.08	2.50	4
50.90	52.50	1.60	0969136	ALS Chemex	VO10020508	0.01	0.00	0.05	<0.01	0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-24** Project: **DONNER OPTION PHELPS** Project Number: **641**

Drilling
Azimuth: 200.01
Dip: -45.58
Length: 84
Started: 15-févr-10
Completed: 16-févr-10
Logged: 18-févr-10

Casing
Length: 33.3
Pulled: no
Capped: yes
Cemented:

Core
Dimension: NQ
Storage: Bell Allard Ra
Section:
Hole Type DD

Location
Township: LA GAUCHETIERE
Claim No.: 4609131
NTS: 32 E/16
Hole: SURFACE

Other
Logged by: Patrick Carr
Relog by: Richard Nieminen
Contractor: Forages Rouillier
Spotted by: Gilles Roy
Surveyed:
Surveyed by:
Geophysics:
Geophysic Contractor:
Left in hole:
Making water:
Multi shot survey:

Comment:
CGRF values for 49°45.65'N, 78°8.56'W on 15 feb. 2010 are a declination of -13.9° and a total field of 56741 nT.

Coordinate - Gemcom
East: -18463.33
North: 17175.27
Elev.: 3008.24

Coordinate - UTM
East: 273682.45
North: 5516797.91
Elev.: 3008.24
Zone: 18 **NAD:** NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	202.00	-45.00	C		5674
0.00	200.01	-45.58	C	✔	
3.00	199.80	-45.35	G	✔	
6.00	200.24	-45.28	G	✔	
9.00	200.57	-45.07	G	✔	
12.00	200.66	-44.60	G	✔	
15.00	200.54	-44.63	G	✔	
18.00	200.27	-44.19	G	✔	
21.00	199.86	-45.27	G	✔	
24.00	200.11	-45.39	G	✔	
42.00	196.80	-45.20	F	✔	5508
72.00	161.70	-45.20	F		7199

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-24** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)		Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	33.30	**TUB**	***Casing***									
33.30	40.00	**V1D**	***Chlorite Dacite***	0969137	39.00	40.00	1.00	0.02	0.00	0.05	<0.01	0.20
		DACITE										
		Pat: CHLORITE DACITE. 50-70% 0.2 mm plagioclase in matrix green/black. 5 mm qtz veins 45-60° 1 per 10 cm or so. Last 30 cm is chloritized to pipe texture preceded by a few cm of vaguely sercitized breccia.										
40.00	50.60	**SM**	***Massive sulfides***	0969138	40.00	41.00	1.00	0.57	0.02	0.06	0.03	10.80
		Mostly pyrite. 2-4% sphalerite, 1-3% chalcopyrite. Upper and last two meters have banding at 60° with qtz-chl. Transition to the SMS is gradual, I tried to pick where it goes to less than 75% sulfides.		0969139	41.00	42.00	1.00	0.48	0.02	0.10	0.06	10.00
				0969140	42.00	43.50	1.50	0.55	0.04	0.44	0.15	14.30
				0969141	43.50	45.00	1.50	1.16	0.02	0.58	0.11	16.60
				0969142	45.00	46.50	1.50	0.60	0.06	0.50	0.09	18.70
				0969143	46.50	48.00	1.50	1.32	0.04	2.02	0.13	27.50
				0969144	48.00	49.40	1.40	2.15	0.22	2.44	0.15	34.60
				0969145	49.40	50.60	1.20	2.52	0.19	1.50	0.11	37.50

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-24** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
50.60	62.50	**SSM** ***Semi-massive sulfides***	0969146	50.60	51.80	1.20	0.96	0.03	2.16	0.06	16.00
		50-75% pyrite, 3-6% sphalerite, trace chalcopyrite in matrix chlorite-quartz-rhyolite.	0969147	51.80	52.40	0.60	0.16	0.01	3.20	0.05	7.20
		52.4--53.3: tuffite banded 50% pyrite, 25% chert, 25% tuff. RLN: ANDESITIC (litho).	0969150	52.40	53.30	0.90	0.09	0.02	0.48	0.01	5.60
		54.9--56.2: barren chlorite sericite rhyolite. RLN: ANDESITIC (from litho 55.00 - 55.20m). Possible very small quartz eyes.	0969151	53.30	54.00	0.70	0.22	0.07	0.76	0.05	10.90
			0969152	54.00	54.90	0.90	0.13	0.01	0.06	0.01	3.30
			0969153	54.90	56.20	1.30	0.01	0.00	0.03	<0.01	0.20
			0969154	56.20	57.00	0.80	0.08	0.02	3.88	0.04	2.10
			0969155	57.00	58.50	1.50	0.05	0.02	2.18	0.11	3.90
			0969156	58.50	60.00	1.50	0.14	0.01	1.17	0.09	5.70
			0969157	60.00	61.40	1.40	0.09	0.01	0.22	0.07	4.90
			0969158	61.40	62.50	1.10	0.51	0.01	0.31	0.06	6.90
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		54.90 - 56.20 Ser ND									
		54.90 - 56.20 Chl ND Extrait par algorithme									
		Minor Interval:									
62.50	68.30	**SM** ***Massive sulfides***	0969159	62.50	63.00	0.50	1.04	0.04	0.26	0.09	10.20
		90% pyrite, 3-4% sphalerite, 1-2% chalcopyrite.	0969160	63.00	64.50	1.50	1.30	0.02	1.02	0.07	6.90
			0969161	64.50	66.00	1.50	0.73	0.01	0.21	0.07	7.30
			0969162	66.00	67.50	1.50	0.38	0.02	0.04	0.19	13.60
			0969163	67.50	68.30	0.80	0.93	0.03	0.03	0.27	31.80
68.30	71.00	**SSM** ***Semi-massive sulfides***	0969164	68.30	69.70	1.40	0.31	0.01	0.04	0.05	5.80
		40% pyrite, 5-8% sphalerite, 3-5% chalcopyrite mostly as stringer texture at 60° in matrix black chlorite alteration pipe.	0969165	69.70	71.00	1.30	1.88	0.01	0.06	0.01	6.90
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		68.30 - 71.00 Chl ND Extrait par algorithme									

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-24** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
71.00	79.35	**V1B** ***Rhyolite***	0969166	71.00	72.00	1.00	0.03	0.00	0.07	<0.01	0.50

RHYOLITE (Litho: 72.30 - 72.40).

Pat: CHLORITE LEUCOXENE DACITE. 60% 0.3-0.5 mm plagioclase, 5-10% 0.2-1 mm chlorite phenocyrsts in matrix plagioclase-chlorite. 1-3% flecks of rutile or titanite. Upper 3 m is strongly chloritized, and there a couple more 20-40 cm chlorite-filled joints ± pyrite which are presumably hydrothermal pathways.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
72.30 - 72.40	Chl ND	Extrait par algorithme
72.40 - 79.35	Chl ND	Extrait par algorithme

Minor Interval:

78.90	79.35	PIPE PIPE	*Pipe alteration zone*

Note the upper contact is somewhat gradual while the lower one is sharp. (see photo in archives).

Minor Interval:

71.00	72.50	PIPE PIPE	*Pipe alteration zone*

79.35	84.00	**I2** ***Igneous, Intermediate Intrusive***

INTERMEDIATE INTRUSIVE. (litho: 80.90 - 81.00: ANDESITIC).
Massive.

Minor Interval:

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-24** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		Pipe alteration zone									
		PIPE Sharp contacts.									

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-24** Project: **DONNER OPTION PHELPS** Project Number: **641**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
35.90	36.00	0.10	0968608	ALS Chemex	VO10024541	62.89	14	9	3.15	2	4	0	0.91	0	0.10	0.01	2.82	100	261	113	22.00	9.00	19	171
52.40	52.60	0.20	0968609	ALS Chemex	VO10024541	70.61	7	12	1.13	0	0	2	0.26	0	0.09	0.01	5.49	98	59	12	3.00	40.00	96	>10000
55.00	55.20	0.20	0968610	ALS Chemex	VO10024541	39.23	11	9	10.52	14	0	0	0.79	1	0.37	0.06	13.70	100	188	23	5.00	11.00	55	181
72.30	72.40	0.10	0968611	ALS Chemex	VO10024541	31.51	18	22	17.67	0	0	0	0.60	0	0.16	0.01	9.01	99	533	101	24.00	-2.00	10	590
80.90	81.00	0.10	0968612	ALS Chemex	VO10024541	53.21	16	7	4.36	6	3	2	0.68	0	0.09	0.01	7.12	99	100	18	4.00	40.00	60	139

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-24** Project: **DONNER OPTION PHELPS** Project Number: **641**

Assay Report (part 1 of 0)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Sg
39.00	40.00	1.00	0969137	ALS Chemex	VO10021000	0.02	0.00	0.05	<0.01	0.20	3
40.00	41.00	1.00	0969138	ALS Chemex	VO10021000	0.57	0.02	0.06	0.03	10.80	4
41.00	42.00	1.00	0969139	ALS Chemex	VO10021000	0.48	0.02	0.10	0.06	10.00	4
42.00	43.50	1.50	0969140	ALS Chemex	VO10021000	0.55	0.04	0.44	0.15	14.30	5
43.50	45.00	1.50	0969141	ALS Chemex	VO10021000	1.16	0.02	0.58	0.11	16.60	5
45.00	46.50	1.50	0969142	ALS Chemex	VO10021000	0.60	0.06	0.50	0.09	18.70	5
46.50	48.00	1.50	0969143	ALS Chemex	VO10021000	1.32	0.04	2.02	0.13	27.50	4
48.00	49.40	1.40	0969144	ALS Chemex	VO10021000	2.15	0.22	2.44	0.15	34.60	4
49.40	50.60	1.20	0969145	ALS Chemex	VO10021000	2.52	0.19	1.50	0.11	37.50	4
50.60	51.80	1.20	0969146	ALS Chemex	VO10021000	0.96	0.03	2.16	0.06	16.00	4
51.80	52.40	0.60	0969147	ALS Chemex	VO10021000	0.16	0.01	3.20	0.05	7.20	3
52.40	53.30	0.90	0969150	ALS Chemex	VO10021000	0.09	0.02	0.48	0.01	5.60	3
53.30	54.00	0.70	0969151	ALS Chemex	VO10021000	0.22	0.07	0.76	0.05	10.90	3
54.00	54.90	0.90	0969152	ALS Chemex	VO10021000	0.13	0.01	0.06	0.01	3.30	4
54.90	56.20	1.30	0969153	ALS Chemex	VO10021000	0.01	0.00	0.03	<0.01	0.20	3
56.20	57.00	0.80	0969154	ALS Chemex	VO10021000	0.08	0.02	3.88	0.04	2.10	4
57.00	58.50	1.50	0969155	ALS Chemex	VO10021000	0.05	0.02	2.18	0.11	3.90	4
58.50	60.00	1.50	0969156	ALS Chemex	VO10021000	0.14	0.01	1.17	0.09	5.70	4
60.00	61.40	1.40	0969157	ALS Chemex	VO10021000	0.09	0.01	0.22	0.07	4.90	4
61.40	62.50	1.10	0969158	ALS Chemex	VO10021000	0.51	0.01	0.31	0.06	6.90	4
62.50	63.00	0.50	0969159	ALS Chemex	VO10021000	1.04	0.04	0.26	0.09	10.20	5
63.00	64.50	1.50	0969160	ALS Chemex	VO10021000	1.30	0.02	1.02	0.07	6.90	5
64.50	66.00	1.50	0969161	ALS Chemex	VO10021000	0.73	0.01	0.21	0.07	7.30	5
66.00	67.50	1.50	0969162	ALS Chemex	VO10021000	0.38	0.02	0.04	0.19	13.60	5
67.50	68.30	0.80	0969163	ALS Chemex	VO10021000	0.93	0.03	0.03	0.27	31.80	4
68.30	69.70	1.40	0969164	ALS Chemex	VO10021000	0.31	0.01	0.04	0.05	5.80	4
69.70	71.00	1.30	0969165	ALS Chemex	VO10021000	1.88	0.01	0.06	0.01	6.90	4
71.00	72.00	1.00	0969166	ALS Chemex	VO10021000	0.03	0.00	0.07	<0.01	0.50	3

xstrata zinc

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-24** Project: **DONNER OPTION PHELPS** Project Number: **641**

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-25** Project: **DONNER OPTION PHELPS** Project Number: **641**

Drilling

Azimuth:	200.24
Dip:	-45.28
Length:	78
Started:	16-févr-10
Completed:	17-févr-10
Logged:	18-févr-10

Casing

Length:	33.1
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Bell Allard Ra
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	Richard Nieminen
Contractor:	Forages Rouillier
Spotted by:	Patrick Carr
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: CGRF values for 49°45.66'N, 78°8.56'W on 16 feb. 2010 are a declination of -13.9° and a total field of 56740 nT.

Coordinate - Gemcom

East:	-18465.35
North:	17170.26
Elev.:	3008.1

Coordinate - UTM

East:	273680.25
North:	5516792.98
Elev.:	3008.1
Zone: 18	**NAD:** NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	202.00	-45.00	C		
0.00	198.57	-42.71	C	✔	
3.00	198.50	-42.65	G	✔	
6.00	197.77	-42.58	G	✔	
9.00	197.77	-42.37	G	✔	
12.00	197.49	-42.60	G	✔	
15.00	197.51	-42.18	G	✔	
18.00	197.46	-41.75	G	✔	
21.00	197.31	-41.65	G	✔	
24.00	197.21	-41.72	G	✔	
42.00	203.50	-41.80	F		1451
72.00	7.30	-41.70	F		5456

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-25** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	31.90	**TUB** *Casing*									
31.90	32.60	**I3A** *Gabbro* LEUCO GABBRO	0969167	31.90	32.60	0.70	0.07	0.02	0.19	0.01	1.20

Pat: CHLORITE LEUCOXENE DACITE. 25% 0.2 mm plagioclase, 10% 0.4 mm chlorite, 10% 0.1 mm rutile phenocrysts in matrix plagioclase, chlorite, others. Possibly quartz.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
31.90 - 32.60	Chl ND	Extrait par algorithme

Minor Interval:

32.00	32.60	V3B BASALT	*Basalt*

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-25** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
32.60	44.40	**SM** ***Massive sulfides***	0969168	32.60	34.00	1.40	1.39	0.03	0.59	0.06	16.10
		Overall 90% pyrite, 4-6% sphalerite, trace chalcopyrite. First five meters or so are massive, and then gradually becomes a banded breccia at 50° with magnetite, chlorite, and quartz-carb.	0969169	34.00	34.30	0.30	0.01	<0.00	0.06	<0.01	0.20
			0969170	34.30	36.00	1.70	0.48	0.02	0.20	0.09	20.90
		34.0--34.3: dacite chlorite	0969171	36.00	37.50	1.50	0.51	0.03	1.11	0.12	18.80
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***	0969172	37.50	39.00	1.50	1.31	0.18	2.31	0.09	22.20
		34.00 - 34.30 Chl ND Extrait par algorithme	0969173	39.00	40.50	1.50	1.18	0.11	4.20	0.18	26.90
			0969174	40.50	42.00	1.50	1.71	0.12	3.33	0.16	29.50
			0969175	42.00	43.50	1.50	0.74	0.04	2.84	0.12	25.90
			0969176	43.50	44.40	0.90	1.25	0.10	1.45	0.14	34.30
		Minor Interval:									
		34.00 34.30 V1D *Chlorite Dacite*									
44.40	47.00	**T** ***Tuffite***	0969177	44.40	45.40	1.00	0.06	0.01	0.52	0.01	2.60
		CHERTY TUFFITE with some laminations at (60° CA). Presence of I2 from litho sampling at (45.00 - 45.20m).	0969178	45.40	47.00	1.60	0.03	0.00	0.49	0.01	1.50
		Pat: 20% pyrite, 20% cloudy quartz, 60% aphanitic tuff at varying degrees of chloritization. Blocky arrangment, usually ~20 cm, but also finer laminated portions.									
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		45.00 - 45.20 Chl L Extrait par algorithme									
47.00	48.90	**SM** ***Massive sulfides***	0969179	47.00	48.00	1.00	0.16	0.01	6.32	0.02	4.70
		90% pyrite, 4-7% sphalerite.	0969180	48.00	48.90	0.90	0.03	0.01	2.65	0.05	2.00

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-25** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
48.90	53.50	**SSM** ***Semi-massive sulfides***	0969181	48.90	50.40	1.50	0.02	0.00	0.13	0.01	0.50
			0969182	50.40	52.00	1.60	0.01	0.00	0.51	0.01	0.20
			0969183	52.00	53.50	1.50	0.14	0.01	0.61	0.05	3.00
53.50	55.80	**I2** ***Igneous, Intermediate Intrusive***	0969184	53.50	54.90	1.40	0.01	<0.00	0.03	<0.01	<0.20
			0969185	54.90	55.80	0.90	0.00	<0.00	0.07	0.01	<0.20

Overall 50-55% pyrite, 10% magnetite, trace chalcopyrite and sphalerite in black chlorite pipe with blocky quartz veins. Where banded, the pyrite is at 50°, but it typically has a more disseminated texture.

Alteration Maj:	Type/Style/Intensity	Comment
48.90 - 53.50	Chl ND	Extrait par algorithme

INTERMEDIATE INTRUSIVE

Pat: SERICITE DACITE. 20% 0.5 mm plagioclase, 10% 0.5 mm chlorite, 10-20% sericite sa rinds on the plagioclase in matrix plag-quartz-dark minerals. May be intrusive.

Alteration Maj:	Type/Style/Intensity	Comment
53.50 - 55.80	Ser ND	
53.50 - 55.80	Chl ND	Extrait par algorithme

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-25** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
55.80	61.60	**SM** ***Massive sulfides*** 90% pyrite, 5% chalcopyrite, 1% sphalerite.	0969188	55.80	57.00	1.20	0.42	0.02	0.11	0.07	8.60
			0969189	57.00	58.50	1.50	0.78	0.01	0.61	0.08	6.60
			0969190	58.50	60.00	1.50	0.58	0.01	0.48	0.07	6.00
			0969191	60.00	61.60	1.60	0.45	0.01	0.11	0.13	27.00
61.60	69.30	**Pipe** ***Pipe alteration zone*** PIPE. (Litho sampling gives RHYOLITE at 66.00 - 66.10m). Pat: Soft black aphanitic chlorite. 20% pyrite in the first 3 m roughly banded in a stringer texture at 40-60°.	0969192	61.60	63.00	1.40	0.27	0.00	0.06	0.03	3.60
			0969193	63.00	64.50	1.50	0.58	0.00	0.06	0.02	3.20
			0969194	64.50	66.00	1.50	0.08	0.00	0.20	0.01	1.10
		Alteration Maj: ***Type/Style/Intensity*** ***Comment*** 66.00 - 66.10 Chl L Extrait par algorithme									
69.30	78.00	**V3B** ***Basalt*** BASALT (from XRF). Pat: CHLORITE LEUCOXENE DACITE. 80% 0.5-1 mm plagioclase, 10% 0.5 mm chlorite, 5% 0.1 mm ruitle flecks in matrix qtz-plag. Blocky pyrite in the first couple of meters. Upper contact is wavy, finer-grained except the rutile, which is the same. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 69.30 - 78.00 Chl ND Extrait par algorithme									

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-25** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		Minor Interval:									
74.35	76.45	I2 *Igneous, Intermediate Intrusive*									
		INTERMEDIATE INTRUSIVE (from XRF).									

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-25** Project: **DONNER OPTION PHELPS** Project Number: **641**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
32.00	32.20	0.20	0968613	ALS Chemex	VO10024541	46.57	13	14	6.49	7	0	1	1.24	0	0.40	0.01	8.72	99	105	43	6.00	41.00	86	514
45.00	45.20	0.20	0968614	ALS Chemex	VO10024541	64.22	10	14	1.12	0	0	3	0.39	0	0.10	0.01	6.96	100	91	16	3.00	64.00	190	8030
54.00	54.20	0.20	0968615	ALS Chemex	VO10024541	38.56	10	10	11.38	13	0	0	0.75	1	0.32	0.06	13.45	99	162	19	5.00	-2.00	46	229
66.00	66.10	0.10	0968616	ALS Chemex	VO10024541	31.90	20	17	20.42	0	0	0	0.59	0	0.14	0.01	9.59	100	460	164	23.00	-2.00	10	518
72.00	72.10	0.10	0968617	ALS Chemex	VO10024541	57.24	12	13	2.98	5	1	1	1.07	0	0.14	0.01	5.58	100	210	59	12.00	21.00	15	166

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-25** Project: **DONNER OPTION PHELPS** Project Number: **641**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
31.90	32.60	0.70	0969167	ALS Chemex	VO10021960	0.07	0.02	0.19	0.01	1.20	3
32.60	34.00	1.40	0969168	ALS Chemex	VO10021960	1.39	0.03	0.59	0.06	16.10	4
34.00	34.30	0.30	0969169	ALS Chemex	VO10021960	0.01	<0.00	0.06	<0.01	0.20	3
34.30	36.00	1.70	0969170	ALS Chemex	VO10021960	0.48	0.02	0.20	0.09	20.90	5
36.00	37.50	1.50	0969171	ALS Chemex	VO10021960	0.51	0.03	1.11	0.12	18.80	5
37.50	39.00	1.50	0969172	ALS Chemex	VO10021960	1.31	0.18	2.31	0.09	22.20	4
39.00	40.50	1.50	0969173	ALS Chemex	VO10021960	1.18	0.11	4.20	0.18	26.90	4
40.50	42.00	1.50	0969174	ALS Chemex	VO10021960	1.71	0.12	3.33	0.16	29.50	4
42.00	43.50	1.50	0969175	ALS Chemex	VO10021960	0.74	0.04	2.84	0.12	25.90	4
43.50	44.40	0.90	0969176	ALS Chemex	VO10021960	1.25	0.10	1.45	0.14	34.30	4
44.40	45.40	1.00	0969177	ALS Chemex	VO10021960	0.06	0.01	0.52	0.01	2.60	3
45.40	47.00	1.60	0969178	ALS Chemex	VO10021960	0.03	0.00	0.49	0.01	1.50	3
47.00	48.00	1.00	0969179	ALS Chemex	VO10021960	0.16	0.01	6.32	0.02	4.70	4
48.00	48.90	0.90	0969180	ALS Chemex	VO10021960	0.03	0.01	2.65	0.05	2.00	4
48.90	50.40	1.50	0969181	ALS Chemex	VO10021960	0.02	0.00	0.13	0.01	0.50	3
50.40	52.00	1.60	0969182	ALS Chemex	VO10021960	0.01	0.00	0.51	0.01	0.20	3
52.00	53.50	1.50	0969183	ALS Chemex	VO10021960	0.14	0.01	0.61	0.05	3.00	4
53.50	54.90	1.40	0969184	ALS Chemex	VO10021960	0.01	<0.00	0.03	<0.01	<0.20	3
54.90	55.80	0.90	0969185	ALS Chemex	VO10021960	0.00	<0.00	0.07	0.01	<0.20	3
55.80	57.00	1.20	0969188	ALS Chemex	VO10021960	0.42	0.02	0.11	0.07	8.60	4
57.00	58.50	1.50	0969189	ALS Chemex	VO10021960	0.78	0.01	0.61	0.08	6.60	5
58.50	60.00	1.50	0969190	ALS Chemex	VO10021960	0.58	0.01	0.48	0.07	6.00	5
60.00	61.60	1.60	0969191	ALS Chemex	VO10021960	0.45	0.01	0.11	0.13	27.00	4
61.60	63.00	1.40	0969192	ALS Chemex	VO10021960	0.27	0.00	0.06	0.03	3.60	3
63.00	64.50	1.50	0969193	ALS Chemex	VO10021960	0.58	0.00	0.06	0.02	3.20	4
64.50	66.00	1.50	0969194	ALS Chemex	VO10021960	0.08	0.00	0.20	0.01	1.10	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-26** Project: **DONNER OPTION PHELPS** Project Number: **641**

Drilling

Azimuth:	199.69
Dip:	-44.92
Length:	69
Started:	17-févr-10
Completed:	19-févr-10
Logged:	19-févr-10

Casing

Length:	26.6
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Bell Allard Ra
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	
Contractor:	Forages Rouillier
Spotted by:	Gérald Gauthier
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: CGRF values for 49°45.64'N, 78°8.47'W on 17 feb. 2010 are a declination of -13.9° and a field strength of 56740 nT.

Coordinate - Gemcom

East:	-18370.39
North:	17123.24
Elev.:	3008.78

Coordinate - UTM

East:	273773.46
North:	5516742.58
Elev.:	3008.78
Zone:	18
NAD:	NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	202.00	-45.00	C		5674
0.00	199.69	-44.92	C	✔	
3.00	199.79	-44.65	G	✔	
6.00	199.88	-44.51	G	✔	
9.00	200.14	-44.55	G	✔	
12.00	200.25	-44.27	G	✔	
15.00	200.34	-43.87	G	✔	
18.00	200.35	-43.86	G	✔	
19.00	200.26	-43.84	G	✔	
39.00	198.80	-43.90	F		5600
69.00	200.80	-43.90	F	✔	5722

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-26** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	26.60	**TUB** ***Casing***									
26.60	34.40	**V1D** ***Chlorite Leucoxene Dacite*** 20% 1 mm plagioclase, 10% 1 mm chlorite, 2-5% 0.1 mm rutile in fine-grained chloritized matrix. Quartz-filled joints and flow boundary textures.	0969195	33.00	34.40	1.40	0.01	0.00	0.05	<0.01	<0.20
34.40	55.00	**SM** ***Massive sulfides*** 85% pyrite, 8% sphalerite, 2% chalcopyrite. Upper 6 m is roughly banded with magnetite, more sphalerite, quartz.	0969196	34.40	36.00	1.60	0.05	0.03	8.55	0.05	3.40
			0969197	36.00	37.50	1.50	0.09	0.08	8.88	0.09	11.30
			0969198	37.50	39.00	1.50	1.08	0.09	2.39	0.16	24.90
			0969199	39.00	40.50	1.50	0.99	0.04	1.97	0.18	15.50
			0969200	40.50	42.00	1.50	0.25	0.03	1.06	0.10	9.40
			0969203	42.00	43.50	1.50	0.17	0.02	2.96	0.09	8.80
			0969204	43.50	45.00	1.50	0.45	0.02	2.40	0.09	8.10
			0969205	45.00	46.50	1.50	0.62	0.02	0.50	0.09	7.90
			0969206	46.50	48.00	1.50	0.15	0.02	0.56	0.10	6.30
			0969207	48.00	49.50	1.50	0.50	0.05	1.75	0.19	12.10
			0969208	49.50	51.00	1.50	0.94	0.03	2.09	0.14	8.70

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-26** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
			0969209	51.00	52.50	1.50	0.60	0.03	6.50	0.37	7.50
			0969210	52.50	54.00	1.50	2.31	0.06	2.96	0.15	12.90
			0969211	54.00	55.40	1.40	1.38	0.06	2.81	0.14	15.10
55.00	69.00	**V1D** ***Chlorite Dacite***	0969212	55.40	56.00	0.60	0.23	0.01	2.08	0.08	4.10
		20% 0.2 mm plagioclase, 10% 0.5 mm chlorite, in matrix chlorite-plag-quartz. 0.1-3 mm Quartz-filled joints ± chlorite, sericite.	0969213	56.00	57.00	1.00	0.01	<0.00	0.05	0.01	0.20

Alteration Maj:	Type/Style/Intensity	Comment
55.00 - 69.00	Ser ND	
55.00 - 69.00	Chl ND	Extrait par algorithme

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-26** Project: **DONNER OPTION PHELPS** Project Number: **641**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
30.00	30.10	0.10	0968618	ALS Chemex	VO10024541	46.30	19	7	4.09	9	5	1	0.52	0	0.11	0.02	6.98	99	43	20	2.00	31.00	52	74
63.00	63.10	0.10	0968619	ALS Chemex	VO10024541	60.00	12	12	2.20	4	3	0	1.00	0	0.11	-0.01	4.97	100	261	67	14.00	4.00	7	156

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-26** Project: **DONNER OPTION PHELPS** Project Number: **641**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
33.00	34.40	1.40	0969195	ALS Chemex	VO10021539	0.01	0.00	0.05	<0.01	<0.20	3
34.40	36.00	1.60	0969196	ALS Chemex	VO10021539	0.05	0.03	8.55	0.05	3.40	4
36.00	37.50	1.50	0969197	ALS Chemex	VO10021539	0.09	0.08	8.88	0.09	11.30	4
37.50	39.00	1.50	0969198	ALS Chemex	VO10021539	1.08	0.09	2.39	0.16	24.90	4
39.00	40.50	1.50	0969199	ALS Chemex	VO10021539	0.99	0.04	1.97	0.18	15.50	4
40.50	42.00	1.50	0969200	ALS Chemex	VO10021539	0.25	0.03	1.06	0.10	9.40	5
42.00	43.50	1.50	0969203	ALS Chemex	VO10021539	0.17	0.02	2.96	0.09	8.80	5
43.50	45.00	1.50	0969204	ALS Chemex	VO10021539	0.45	0.02	2.40	0.09	8.10	5
45.00	46.50	1.50	0969205	ALS Chemex	VO10021539	0.62	0.02	0.50	0.09	7.90	5
46.50	48.00	1.50	0969206	ALS Chemex	VO10021539	0.15	0.02	0.56	0.10	6.30	4
48.00	49.50	1.50	0969207	ALS Chemex	VO10021539	0.50	0.05	1.75	0.19	12.10	4
49.50	51.00	1.50	0969208	ALS Chemex	VO10021539	0.94	0.03	2.09	0.14	8.70	4
51.00	52.50	1.50	0969209	ALS Chemex	VO10021539	0.60	0.03	6.50	0.37	7.50	4
52.50	54.00	1.50	0969210	ALS Chemex	VO10021539	2.31	0.06	2.96	0.15	12.90	5
54.00	55.40	1.40	0969211	ALS Chemex	VO10021539	1.38	0.06	2.81	0.14	15.10	5
55.40	56.00	0.60	0969212	ALS Chemex	VO10021539	0.23	0.01	2.08	0.08	4.10	4
56.00	57.00	1.00	0969213	ALS Chemex	VO10021539	0.01	<0.00	0.05	0.01	0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-27** Project: **DONNER OPTION PHELPS** Project Number: **641**

Drilling

Azimuth:	200
Dip:	-48
Length:	105
Started:	25-juil-10
Completed:	26-juil-10
Logged:	27-juil-10

Casing

Length:	27
Pulled:	no
Capped:	yes
Cemented:	no

Core

Dimension:	NQ
Storage:	Bell Allard Ra
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	Richard Nieminen
Contractor:	Forages Rouillier
Spotted by:	Gérald Gauthier
Surveyed:	
Surveyed by:	
Geophysics:	None
Geophysic Contractor:	
Left in hole:	
Making water:	no
Multi shot survey:	no

Comment:

CGRF values for 49°45.65'N, 78°8.51'W on 25 jul 2010 are a declination of -13.9° and a total field of 56695 nT.

Coordinate - Gemcom

East:	-18404.89
North:	17159.6
Elev.:	3007.94

Coordinate - UTM

East:	273740.29
North:	5516780.15
Elev.:	3007.94
Zone:	18
NAD:	NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	200.00	-48.00	C		5670
0.00	200.00	-48.00	C	✔	
5.00	202.10	-49.30	N	✔	
10.00	202.45	-49.60	N	✔	
15.00	203.54	-49.27	N	✔	
20.00	204.61	-48.79	N	✔	
25.00	204.98	-48.71	N	✔	
30.00	205.12	-48.89	N	✔	
35.00	205.18	-48.96	N	✔	
39.00	212.30	-49.20	F		5556
40.00	205.17	-48.89	N	✔	
45.00	205.17	-48.95	N	✔	
50.00	205.28	-48.92	N	✔	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
55.00	205.27	-49.00	N	✔	
60.00	205.30	-49.17	N	✔	
65.00	205.34	-49.09	N	✔	
69.00	197.70	-49.30	F		5329
70.00	205.37	-49.11	N	✔	
75.00	205.39	-49.18	N	✔	
80.00	205.52	-49.34	N	✔	
85.00	205.41	-49.29	N	✔	
90.00	205.23	-49.23	N	✔	
95.00	205.20	-49.19	N	✔	
99.70	205.25	-49.22	N	✔	
105.00	199.10	-49.00	F		5260

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-27** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	27.00	**TUB** ***Casing***									
27.00	46.70	**I3A** ***Gabbro*** LEUCO GABBRO Pat: 5% 1 mm plagioclase phenocrysts, 5-20% 1 mm epidote poikioblasts enclosing chlorite or pyroxene in groundmass plagioclase, quartz. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 27.00 - 46.70 Epi ND 27.00 - 46.70 Chl ND Extrait par algorithme									
46.70	53.50	**I2** ***Igneous, Intermediate Intrusive*** INTERMEDIATE INTRUSIVE (Massive andesite aspect). Chloritized contacts. Pat: 46.70 - 47.50: Dark green, 5% quartz-calc-filled amygdules (?) elongated at 50°. Trace pyrite. Upper contact is 10 cm shear zone at 40-70°. 47.50 - 53.50: Light gray, massive. Grain size 0.25 to 0.5 mm. 50% plag, 10% pyroxene or chlorite, 20% sericite, rest? Maybe some quartz. Quartz veins and filled joints at all angles, ~0.5-1 cm. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment***	0969229 0969230	52.00 53.00	53.00 53.50	1.00 0.50	0.01 0.32	0.01 0.03	0.04 1.21	0.01 0.06	1.40 29.70

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		46.70 - 53.50 Ser S									
		46.70 - 53.50 Chl S Extrait par algorithme									
		Structure Maj.: ***Type/Core Angle*** ***Comment***									
		46.70 - 46.77 fai 70 Good fault with mud.									
53.50	58.30	**SM** ***Massive sulfides***	0969231	53.50	54.50	1.00	0.60	0.02	6.94	0.11	25.20
		6% sphalerite in wavy banded veins, 4% 0.1 mm chalcopyrite, 85% pyrite up to 1 mm. Rest is chlorite, quartz-carb banded at the same angle as the sphalerite, 50°.	0969232	54.50	55.60	1.10	0.61	0.02	6.32	0.08	7.70
			0969233	55.60	57.00	1.40	0.62	0.02	1.46	0.07	14.50
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***	0969234	57.00	58.00	1.00	0.46	0.02	4.79	0.05	16.10
		53.50 - 58.30 Chl L Extrait par algorithme									
58.30	62.00	**I2** ***Igneous, Intermediate Intrusive***	0969235	58.00	59.30	1.30	0.21	0.02	8.47	0.06	11.30
		INTERMEDIATE INTRUSIVE (as above).	0969236	59.30	60.60	1.30	0.01	0.01	0.07	0.01	0.50
		Pat:Diorite, as before. Contacts sharp at 70°.	0969237	60.60	62.00	1.40	0.01	0.01	0.06	0.01	0.40

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-27** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
62.00	66.70	**SM** ***Massive sulfides*** 12% sphalerite, 2% chalcopyrite in 80% pyrite, rest is irregular quartz veins. Banding of sphalerite is wavy at 40ish degrees.	0969238	62.00	63.50	1.50	0.80	0.03	7.88	0.12	12.30
			0969239	63.50	65.10	1.60	0.59	0.03	14.40	0.13	15.50
			0969240	65.10	66.70	1.60	1.06	0.03	4.92	0.16	22.40
66.70	67.50	**T** ***Tuffite*** CHERTY TUFFITE Pat: 40% sulfide, 40% cloudy chert is rough and irregular banding, 20% chloritized material, mostly at the end of the unit. Overall maybe 6-8% spahlerite. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 66.70 - 67.50 Sil ND 66.70 - 67.50 Chl ND Extrait par algorithme									
67.50	74.90	**SM** ***Massive sulfides*** massive pyrite in green chlorite and sphalerite-filled breccia, overall maybe 8% sphalerite, most of which comes toward the end of this interval which is very finely banded (0.1 mm) pyrite and sphalerite at 40°. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 67.50 - 74.90 Chl L Extrait par algorithme	0969241	66.70	68.50	1.80	0.12	0.01	10.40	0.04	4.50
			0969244	68.50	69.60	1.10	0.32	0.02	4.81	0.08	4.70
			0969245	69.60	70.90	1.30	0.16	0.02	1.27	0.06	5.00
			0969246	70.90	72.30	1.40	0.24	0.02	1.16	0.08	4.50
			0969247	72.30	73.80	1.50	0.53	0.06	0.51	0.16	8.50
			0969248	73.80	74.90	1.10	0.29	0.05	0.43	0.16	23.50

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-27** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
74.90	78.50	**SSM** ***Semi-massive sulfides*** 60% sulfides in fine spidery network around 1 mm quartz-chl crystals. 17% sphalerite, 3% chalcopyrite, 40% pyrrhotite.	0969249	74.90	76.00	1.10	0.78	0.02	0.44	0.09	7.70
			0969250	76.00	77.50	1.50	0.69	0.01	0.11	0.07	5.10
			0969251	77.50	78.50	1.00	0.02	0.01	0.11	0.03	1.00
78.50	84.20	**SM** ***Massive sulfides*** 5% sphalerite, 1% chalcopyrite, 70% pyrite. Rest is chlorite-quartz breccia, mostly from 81 m to 82 m. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 78.50 - 84.20 Chl ND Extrait par algorithme	0969252	78.50	80.00	1.50	1.10	0.01	5.84	0.11	5.10
			0969253	80.00	81.30	1.30	1.18	0.01	3.27	0.06	3.70
			0969254	81.30	82.80	1.50	1.80	0.01	1.79	0.09	6.10
			0969255	82.80	84.20	1.40	0.99	0.02	2.84	0.11	15.00
84.20	88.60	**SSM** ***Semi-massive sulfides*** 65% sulfide, pyrite and magnetite, in quartz-chlorite breccia. Slightly banded in places at 50-60°. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 84.20 - 88.60 Chl L Extrait par algorithme	0969256	84.20	85.70	1.50	0.15	0.01	0.05	0.04	6.50
			0969257	85.70	87.00	1.30	0.95	0.01	0.04	0.05	4.30
			0969258	87.00	88.60	1.60	0.69	0.01	0.04	0.03	1.50

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-27** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
88.60	97.10	**Pipe** ***Pipe alteration zone***	0969259	88.60	90.00	1.40	0.51	0.00	0.44	0.02	1.20
		Soft, glossy black aphantiic talc-chlorite alteration pipe. Overall maybe 10% pyrite. Several portions 10-50 cm lighter (but still soft) with sharp contacts that look like flow contacts, but possibly also pre-hydrothermal dikes.	0969260	90.00	91.50	1.50	0.00	0.01	0.10	0.02	0.80
			0969261	91.50	93.00	1.50	0.07	0.00	0.36	0.02	0.50
		95.7--97.1: 40% pyrite in rough brecciated bands.	0969262	93.00	94.50	1.50	0.01	0.00	0.14	<0.01	0.40
			0969263	94.50	95.70	1.20	0.09	0.00	0.06	0.01	0.30
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***	0969264	95.70	97.10	1.40	0.86	0.01	0.03	0.04	4.30
		88.60 - 97.10 Tlc ND									
		88.60 - 97.10 Chl ND Extrait par algorithme									
97.10	105.00	**V1D** ***Leucoxene Dacite or Rhyolite***	0969265	97.10	97.80	0.70	0.02	0.00	0.03	0.01	0.30
		DACITE massive, quartz eyed.	0969266	97.80	99.00	1.20	0.02	0.01	0.05	<0.01	<0.20
		Pat: Medium gray-green massive. Grain size 0.4 mm. 5-10% 0.1 mm sphene crystals.									

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-27** Project: **DONNER OPTION PHELPS** Project Number: **641**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
42.00	42.10	0.10	0968733	ALS Chemex	VO10123726	42.80	14	12	8.24	9	2	0	0.77	0	0.18	0.04	10.75	99	53	13	2.20	2.00	69	102
47.20	47.30	0.10	0968734	ALS Chemex	VO10123726	43.30	9	21	5.34	8	0	0	0.47	0	0.19	-0.01	7.64	95	109	18	4.50	0.20	916	1940
48.00	48.10	0.10	0968735	ALS Chemex	VO10123726	62.60	13	6	2.00	4	4	1	0.61	0	0.08	-0.01	3.00	97	217	45	13.50	17.20	27	110
67.30	67.60	0.30	0968736	ALS Chemex	VO10123726	32.10	4	39	1.30	0	0	0	0.21	0	0.19	-0.01	19.35	96	45	3	1.10	0.50	986	>10000
90.80	91.10	0.30	0968737	ALS Chemex	VO10123726	26.50	22	14	20.50	0	0	1	0.56	0	0.09	-0.01	10.70	96	153	854	8.30	12.30	16	916
93.60	93.90	0.30	0968738	ALS Chemex	VO10123726	48.20	18	9	11.60	0	1	2	0.81	0	0.05	0.02	6.55	98	207	73	9.80	48.50	250	2030
102.00	102.09	0.09	0968739	ALS Chemex	VO10123726	66.40	11	8	2.31	3	3	0	0.93	0	0.07	-0.01	3.48	99	320	133	31.50	10.40	19	266

xstrata zinc

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-27** Project: **DONNER OPTION PHELPS** Project Number: **641**

Assay Report (part 1 of 0)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Sg
52.00	53.00	1.00	0969229	ALS Chemex	VO10103425	0.01	0.01	0.04	0.01	1.40	3
53.00	53.50	0.50	0969230	ALS Chemex	VO10103425	0.32	0.03	1.21	0.06	29.70	3
53.50	54.50	1.00	0969231	ALS Chemex	VO10103425	0.60	0.02	6.94	0.11	25.20	5
54.50	55.60	1.10	0969232	ALS Chemex	VO10103425	0.61	0.02	6.32	0.08	7.70	5
55.60	57.00	1.40	0969233	ALS Chemex	VO10103425	0.62	0.02	1.46	0.07	14.50	5
57.00	58.00	1.00	0969234	ALS Chemex	VO10103425	0.46	0.02	4.79	0.05	16.10	5
58.00	59.30	1.30	0969235	ALS Chemex	VO10103425	0.21	0.02	8.47	0.06	11.30	5
59.30	60.60	1.30	0969236	ALS Chemex	VO10103425	0.01	0.01	0.07	0.01	0.50	3
60.60	62.00	1.40	0969237	ALS Chemex	VO10103425	0.01	0.01	0.06	0.01	0.40	3
62.00	63.50	1.50	0969238	ALS Chemex	VO10103425	0.80	0.03	7.88	0.12	12.30	5
63.50	65.10	1.60	0969239	ALS Chemex	VO10103425	0.59	0.03	14.40	0.13	15.50	5
65.10	66.70	1.60	0969240	ALS Chemex	VO10103425	1.06	0.03	4.92	0.16	22.40	5
66.70	68.50	1.80	0969241	ALS Chemex	VO10103425	0.12	0.01	10.40	0.04	4.50	3
68.50	69.60	1.10	0969244	ALS Chemex	VO10103425	0.32	0.02	4.81	0.08	4.70	4
69.60	70.90	1.30	0969245	ALS Chemex	VO10103425	0.16	0.02	1.27	0.06	5.00	5
70.90	72.30	1.40	0969246	ALS Chemex	VO10103425	0.24	0.02	1.16	0.08	4.50	5
72.30	73.80	1.50	0969247	ALS Chemex	VO10103425	0.53	0.06	0.51	0.16	8.50	5
73.80	74.90	1.10	0969248	ALS Chemex	VO10103425	0.29	0.05	0.43	0.16	23.50	5
74.90	76.00	1.10	0969249	ALS Chemex	VO10103425	0.78	0.02	0.44	0.09	7.70	4
76.00	77.50	1.50	0969250	ALS Chemex	VO10103425	0.69	0.01	0.11	0.07	5.10	4
77.50	78.50	1.00	0969251	ALS Chemex	VO10103425	0.02	0.01	0.11	0.03	1.00	3
78.50	80.00	1.50	0969252	ALS Chemex	VO10103425	1.10	0.01	5.84	0.11	5.10	5
80.00	81.30	1.30	0969253	ALS Chemex	VO10103425	1.18	0.01	3.27	0.06	3.70	4
81.30	82.80	1.50	0969254	ALS Chemex	VO10103425	1.80	0.01	1.79	0.09	6.10	4
82.80	84.20	1.40	0969255	ALS Chemex	VO10103425	0.99	0.02	2.84	0.11	15.00	4
84.20	85.70	1.50	0969256	ALS Chemex	VO10103425	0.15	0.01	0.05	0.04	6.50	3
85.70	87.00	1.30	0969257	ALS Chemex	VO10103425	0.95	0.01	0.04	0.05	4.30	4
87.00	88.60	1.60	0969258	ALS Chemex	VO10103425	0.69	0.01	0.04	0.03	1.50	4
88.60	90.00	1.40	0969259	ALS Chemex	VO10103425	0.51	0.00	0.44	0.02	1.20	3
90.00	91.50	1.50	0969260	ALS Chemex	VO10103425	0.00	0.01	0.10	0.02	0.80	3

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-27** Project: **DONNER OPTION PHELPS** Project Number: **641**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
91.50	93.00	1.50	0969261	ALS Chemex	VO10103425	0.07	0.00	0.36	0.02	0.50	3
93.00	94.50	1.50	0969262	ALS Chemex	VO10103425	0.01	0.00	0.14	<0.01	0.40	3
94.50	95.70	1.20	0969263	ALS Chemex	VO10103425	0.09	0.00	0.06	0.01	0.30	3
95.70	97.10	1.40	0969264	ALS Chemex	VO10103425	0.86	0.01	0.03	0.04	4.30	4
97.10	97.80	0.70	0969265	ALS Chemex	VO10103425	0.02	0.00	0.03	0.01	0.30	3
97.80	99.00	1.20	0969266	ALS Chemex	VO10103425	0.02	0.01	0.05	<0.01	<0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-28** Project: **DONNER OPTION PHELPS** Project Number: **641**

Drilling

Azimuth:	200
Dip:	-45
Length:	102
Started:	27-juil-10
Completed:	28-juil-10
Logged:	28-juil-10

Casing

Length:	21.8
Pulled:	no
Capped:	yes
Cemented:	no

Core

Dimension:	NQ
Storage:	Bell Allard Ra
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	Richard Nieminen
Contractor:	Forages Rouillier
Spotted by:	Gérald Gauthier
Surveyed:	
Surveyed by:	
Geophysics:	None
Geophysic Contractor:	
Left in hole:	
Making water:	no
Multi shot survey:	no

Comment:

CGRF values for 27 jul 2010 for 49°45.64'N, 78°8.48'W are a declination of -13.9° and a total field strength of 54610 nT.

Coordinate - Gemcom

East:	-18376.12
North:	17149.34
Elev.:	3007.81

Coordinate - UTM

East:	273768.67
North:	5516768.87
Elev.:	3007.81
Zone:	18
NAD:	NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	200.00	-45.00	C		5461
0.00	200.00	-45.00	C	✔	
5.00	198.22	-44.70	N	✔	
10.00	198.22	-44.51	N	✔	
15.00	198.34	-44.26	N	✔	
20.00	198.86	-44.52	N	✔	
25.00	198.93	-44.54	N	✔	
30.00	198.94	-44.55	N	✔	
33.00	205.20	-44.30	F		5625
35.00	198.97	-44.59	N	✔	
40.00	199.05	-44.70	N	✔	
45.00	199.11	-44.62	N	✔	
50.00	199.08	-44.60	N	✔	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
55.00	199.12	-44.42	N	✔	
60.00	199.05	-44.41	N	✔	
63.00	208.40	-44.30	F		5320
65.00	199.11	-44.39	N	✔	
70.00	199.15	-44.38	N	✔	
75.00	199.10	-44.55	N	✔	
80.00	199.28	-44.64	N	✔	
85.00	199.25	-44.51	N	✔	
90.00	199.22	-44.05	N	✔	
95.00	199.36	-44.00	N	✔	
96.60	199.36	-43.97	N	✔	
102.00	207.90	-44.00	F		5327

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-28** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	21.80	**TUB** *Casing*									
21.80	52.80	**I3A** *Gabbro* LEUCO GABBRO Pat: SERICITE ANDESITE. Light greenish, 20% 1 mm plag -> sericite or chlorite in matrix 0.5 mm plag, chl, ser. Maybe 5-10% quartz. There's a feature of sericitization extending outward from cracks, I guess it's alteration around a lateral crack related to the joint. 52.3--52.8: fault mud, breccia at 60°. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 21.80 - 52.80 Ser ND 21.80 - 52.80 Chl ND Extrait par algorithme ***Structure Maj.:*** ***Type/Core Angle*** ***Comment*** 52.30 - 52.80 fai 60									
52.80	58.10	**I3A** *Gabbro* LEUCO GABBRO Pat: Chlorite diorite or andesite. Gray, grainsize 1 mm. 40% plag, 20% chlorite, maybe 5% epidote. Maybe some quartz. Last two meters is more chloritized, finer grained, foliation in line with the bedding of the sulfide, 40°. Can't really tell if it's tuff or an intrusive contact.	0969267	57.00	58.10	1.10	0.00	0.08	0.07	0.04	<0.20

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-28** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		52.80 - 58.10 Epi ND									
		52.80 - 58.10 Chl ND Extrait par algorithme									
58.10	88.20	**SM** ***Massive sulfides***	0969268	58.10	59.80	1.70	0.05	0.47	16.95	0.03	6.40
		58.1--59.8: 12% sph, 1-2% cpy banded at 40° + qtz-chl	0969269	59.80	60.70	0.90	1.26	0.15	1.84	0.06	99.90
		59.8--60.3: dark green soft chlorite	0969270	60.70	62.00	1.30	0.63	0.16	3.67	0.18	137.00
		60.3--60.5: 15% cpy	0969271	62.00	63.50	1.50	0.97	0.05	7.37	0.10	36.90
		60.5--60.7: dark green soft chlorite	0969272	63.50	65.00	1.50	1.08	0.05	3.10	0.09	29.00
		60.7--67.7: 6% sph, 2-3% cpy banded at 40°	0969273	65.00	66.30	1.30	0.49	0.03	5.41	0.10	9.50
		67.7--74.0: 6-7% sph, 2-3% cpy roughly banded/brecciated at 40° with 15-20% quartz	0969274	66.30	67.80	1.50	1.42	0.06	2.21	0.16	15.10
		74.0--85.8: tr sph, 7% cpy in massive pyrite	0969275	67.80	69.30	1.50	3.55	0.05	3.78	0.26	56.10
		85.8--88.2: 5% cpy roughly banded/brecciated with 20-25% dark black chlorite	0969276	69.30	70.90	1.60	2.73	0.05	2.45	0.11	31.80
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***	0969277	70.90	72.40	1.50	1.26	0.14	4.82	0.18	16.50
		59.80 - 60.30 Chl ND Extrait par algorithme	0969278	72.40	74.00	1.60	1.52	0.01	5.27	0.14	8.00
		60.30 - 85.80 Chl L Extrait par algorithme	0969281	74.00	75.50	1.50	1.87	0.02	0.99	0.23	21.10
		60.50 - 60.70 Chl ND Extrait par algorithme	0969282	75.50	77.00	1.50	0.88	0.02	0.86	0.20	20.60
		85.80 - 88.20 Chl ND Extrait par algorithme	0969283	77.00	78.50	1.50	0.56	0.02	1.81	0.23	22.80
			0969284	78.50	80.00	1.50	1.18	0.02	0.36	0.23	23.40
		Minor Interval:	0969285	80.00	81.50	1.50	0.45	0.02	0.34	0.22	26.40
		59.80 60.30 PIPE *Pipe alteration zone*	0969286	81.50	83.00	1.50	0.67	0.02	2.96	0.11	11.60
		Minor Interval:	0969287	83.00	84.50	1.50	1.54	0.01	0.28	0.17	18.60
		60.50 60.70 PIPE *Pipe alteration zone*	0969288	84.50	85.80	1.30	1.36	0.01	0.15	0.07	10.70

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-28** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
			0969289	85.80	87.30	1.50	0.21	0.01	0.24	0.05	5.20
			0969290	87.30	88.20	0.90	0.15	0.02	0.09	0.06	3.00
88.20	102.00	**V1D** ***Leucoxene Dacite*** DACITE	0969291	88.20	89.50	1.30	0.03	0.00	0.05	0.01	<0.20

Pat: Gray, grain size 0.5 mm. 80% plag, 10% quartz, 5% chlorite, 5% 0.1 mm leucoxenes. 5-20% quartz-chl-filled joints up to 10 cm. First portion is finer grained, to start of greater quartz-chl veins at 92.5. If the two chem samples are different, put the contact there.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
88.20 - 102.00	Chl S	Extrait par algorithme

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-28** Project: **DONNER OPTION PHELPS** Project Number: **641**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
42.00	42.10	0.10	0968741	ALS Chemex	VO10123726	45.90	16	14	8.55	5	3	0	1.10	0	0.19	0.07	6.38	101	86	24	3.70	1.40	42	136
56.40	56.50	0.10	0968742	ALS Chemex	VO10123726	47.00	14	16	8.15	4	1	0	1.35	0	0.25	0.01	7.11	101	129	36	5.60	8.00	6	310
90.40	90.50	0.10	0968743	ALS Chemex	VO10123726	50.80	13	15	6.45	4	1	1	1.36	0	0.16	0.01	7.44	99	154	57	11.00	13.40	8	177
100.50	100.59	0.09	0968744	ALS Chemex	VO10123726	65.00	11	9	2.41	3	3	0	1.06	0	0.09	-0.01	3.88	99	306	124	29.10	8.30	26	107

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-28** Project: **DONNER OPTION PHELPS** Project Number: **641**

Assay Report (part 1 of 0)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Sg
57.00	58.10	1.10	0969267	ALS Chemex	VO10104280	0.00	0.08	0.07	0.04	<0.20	3
58.10	59.80	1.70	0969268	ALS Chemex	VO10104280	0.05	0.47	16.95	0.03	6.40	4
59.80	60.70	0.90	0969269	ALS Chemex	VO10104280	1.26	0.15	1.84	0.06	99.90	3
60.70	62.00	1.30	0969270	ALS Chemex	VO10104280	0.63	0.16	3.67	0.18	137.00	4
62.00	63.50	1.50	0969271	ALS Chemex	VO10104280	0.97	0.05	7.37	0.10	36.90	4
63.50	65.00	1.50	0969272	ALS Chemex	VO10104280	1.08	0.05	3.10	0.09	29.00	4
65.00	66.30	1.30	0969273	ALS Chemex	VO10104280	0.49	0.03	5.41	0.10	9.50	4
66.30	67.80	1.50	0969274	ALS Chemex	VO10104280	1.42	0.06	2.21	0.16	15.10	5
67.80	69.30	1.50	0969275	ALS Chemex	VO10104280	3.55	0.05	3.78	0.26	56.10	4
69.30	70.90	1.60	0969276	ALS Chemex	VO10104280	2.73	0.05	2.45	0.11	31.80	4
70.90	72.40	1.50	0969277	ALS Chemex	VO10104280	1.26	0.14	4.82	0.18	16.50	4
72.40	74.00	1.60	0969278	ALS Chemex	VO10104280	1.52	0.01	5.27	0.14	8.00	4
74.00	75.50	1.50	0969281	ALS Chemex	VO10104280	1.87	0.02	0.99	0.23	21.10	4
75.50	77.00	1.50	0969282	ALS Chemex	VO10104280	0.88	0.02	0.86	0.20	20.60	5
77.00	78.50	1.50	0969283	ALS Chemex	VO10104280	0.56	0.02	1.81	0.23	22.80	4
78.50	80.00	1.50	0969284	ALS Chemex	VO10104280	1.18	0.02	0.36	0.23	23.40	4
80.00	81.50	1.50	0969285	ALS Chemex	VO10104280	0.45	0.02	0.34	0.22	26.40	5
81.50	83.00	1.50	0969286	ALS Chemex	VO10104280	0.67	0.02	2.96	0.11	11.60	5
83.00	84.50	1.50	0969287	ALS Chemex	VO10104280	1.54	0.01	0.28	0.17	18.60	5
84.50	85.80	1.30	0969288	ALS Chemex	VO10104280	1.36	0.01	0.15	0.07	10.70	5
85.80	87.30	1.50	0969289	ALS Chemex	VO10104280	0.21	0.01	0.24	0.05	5.20	4
87.30	88.20	0.90	0969290	ALS Chemex	VO10104280	0.15	0.02	0.09	0.06	3.00	4
88.20	89.50	1.30	0969291	ALS Chemex	VO10104280	0.03	0.00	0.05	0.01	<0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-29** Project: **DONNER OPTION PHELPS** Project Number: **641**

Drilling

Azimuth:	202
Dip:	-55
Length:	147
Started:	28-juil-10
Completed:	03-août-10
Logged:	28-juil-10

Casing

Length:	22.5
Pulled:	no
Capped:	yes
Cemented:	no

Core

Dimension:	NQ
Storage:	Bell Allard Ra
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	Richard Nieminen
Contractor:	Forages Rouillier
Spotted by:	Patrick Carr
Surveyed:	
Surveyed by:	
Geophysics:	None
Geophysic Contractor:	
Left in hole:	
Making water:	no
Multi shot survey:	no

Comment: CGRF values for 49°45.67'N, 78°8.52'W for 28 jul 2010 are a declination of -13.9° and a total field of 56694 nT.

Coordinate - Gemcom

East:	-18418.55
North:	17202.36
Elev.:	3008.17

Coordinate - UTM

East:	273728.18
North:	5516823.38
Elev.:	3008.17
Zone: 18	**NAD:** NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	202.00	-55.00	C		5669
0.00	202.00	-55.00	C	✔	
5.00	201.31	-55.23	N	✔	
10.00	201.82	-54.47	N	✔	
15.00	202.46	-54.38	N	✔	
20.00	203.10	-54.31	N	✔	
25.00	203.14	-54.30	N	✔	
30.00	203.15	-54.29	N	✔	
35.00	203.20	-54.29	N	✔	
36.00	294.00	-54.60	F		1934
40.00	203.26	-54.29	N	✔	
45.00	203.43	-54.30	N	✔	
50.00	203.61	-54.30	N	✔	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
55.00	203.66	-54.22	N	✔	
60.00	203.70	-54.13	N	✔	
65.00	203.79	-54.24	N	✔	
66.00	209.60	-54.20	F		5327
70.00	203.89	-54.36	N	✔	
75.00	203.83	-54.27	N	✔	
80.00	203.76	-54.18	N	✔	
85.00	203.64	-54.11	N	✔	
90.00	203.51	-54.03	N	✔	
95.00	203.48	-53.83	N	✔	
96.00	206.70	-53.80	F		5605
147.00	206.80	-53.10	F	✔	5626

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-29** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	22.50	**TUB** *Casing*									
22.50	81.35	**I3A** *Gabbro*									
81.35	82.10	**V3B** *Basalt*									

LEUCO GABBRO
Massive, rare quartz eyes locally (around 69m.), gabroic textures. LC (60°CA).
Between 70.0 and 81.3m: Some glomero textures.

Pat: Dark gray-green 10-30% 0.25-1 mm chalky white plagioclase phenocrysts in matrix 0.5 mm 40% plag, 40% chlorite, maybe some quartz, biotite. Quartz-sericite ± chl veins both banded and thicker (up to 1 cm) and thin and spidery. Some regions with a porphyritic or glomero appearance--plagioclase phenocrysts and agglomerations up to 1 cm--with very gradual upper contact and slightly gradual lower contact, crystal settling in a flow, I assume. Could be a diorite, but the "subunit" at 69.6 looks like pillow interior.

69.6--72.3: lighter color, brecciated and larger plagioclase phenocyrsts. Possibly a dike, but I think it's pillow interior. Contacts at 60 and fine-grained tuff material. Maybe also just a flow top or bottom.

82.8--83.2: fault mylonite mud breccia at 65°. 1-2 m on either side strongly chloritized, with pyrite and pyrrhotite. Between the fault and the next unit may be rhyolite/dacite (by the chemistry) but may just be strongly altered.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
69.60 - 72.30	Chl ND	Extrait par algorithme

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)

BASALT and some RHYOLITE
Moderate and pervasive chloritizations.

Alteration Maj:	Type/Style/Intensity	Comment
81.35 - 82.10	Chl E	Extrait par algorithme

82.10 82.55 **SSM** ***Semi-massive sulfides***
Mostly pyrite

Mineralization Maj. :	Type/Style/%Mineral	Comment
82.00 - 83.00	Py SMS 30	Fine

Minor Interval:
81.35 83.20 V3B *Basalt*
SCHISTOZED BASALT

82.55 86.10 **V3B** ***Basalt***
Same as 81.35. Strong chlorite alteration between 83 and 85m. Strongly foliated fault at 83m.

Alteration Maj:	Type/Style/Intensity	Comment
82.55 - 86.10	Chl ND	Extrait par algorithme

Structure Maj.:	Type/Core Angle	Comment
82.80 - 83.20	fai 65	

Minor Interval:

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		Rhyolite RHYOLITE (from litho 83.90 - 84.00m). Schistozed.									
86.10	99.70	**V1D** ***Dacite*** DACITE (litho). Looks like andesitic flows, moderate and patchy silicifications. Pat: Sericite Andesite Flows. Medium gray, very fine-grained, with a frosted-glass luster. Texture of "frosting" looks like flow textures, has associated qtz-py infilling with chl rinds. Possibly also a dacite. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 86.10 - 99.70 Sil ND 86.10 - 99.70 Ser ND 86.10 - 99.70 Chl ND Extrait par algorithme ***Mineralization Maj. :*** ***Type/Style/%Mineral*** ***Comment*** 90.60 - 91.60 Py 15 Schistozed section.	0969292	99.00	99.70	0.70	0.02	0.01	0.05	0.01	3.40
99.70	103.00	**SM** ***Massive sulfides*** 30% sph in 60-65% pyrite in rough banding 0.5-10 cm at 70-80°.	0969293	99.70	100.90	1.20	0.10	0.02	>30.00	0.08	54.60
			0969294	100.90	102.00	1.10	0.23	0.02	22.90	0.04	7.80
			0969295	102.00	103.00	1.00	0.24	0.02	6.56	0.08	39.90

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-29** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
103.00	105.20	**Pipe** ***Pipe alteration zone***	0969296	103.00	104.00	1.00	0.01	0.01	0.49	0.01	0.80
			0969297	104.00	105.20	1.20	0.06	0.02	0.18	0.01	1.00
		Py (15%) stringers.									
		Pat: Soft black chlorite, 4-5% pyrite. Upper 30 cm is lighter in color and vaguely banded (relict andesitic tuff?) but soft.									
		NOTE: litho shows a calc-alcalin intermediate intrusive somewhere within the pipe. On the photos, you can notice that 10cm piece does not carry sulfides… maybe a very narrow dyke? (RLN).									
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		103.00 - 105.20 Chl L Extrait par algorithme									
105.20	106.60	**SM** ***Massive sulfides***	0969298	105.20	106.60	1.40	0.25	0.04	0.03	0.12	5.10
		1-3% chalcopyrite in massive pyrite.									
106.60	115.60	**I2I** ***Leucoxene Quartz Diorite***	0969301	106.60	107.40	0.80	0.01	0.00	0.03	0.01	<0.20
			0969302	114.70	115.60	0.90	0.00	0.00	0.03	<0.01	<0.20
		INTERMEDIATE INTRUSIVE									
		Pat: Gray massive, grain size 0.75 mm. 30-50% plag, 10-30% quartz, accessory minerals include biotite, chlorite. 5-8% titanite with an orangish cast.116.9									
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		106.60 - 115.60 Chl ND									
		106.60 - 115.60 Bio ND Extrait par algorithme									

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-29** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
115.60	116.90	**SSM** ***Semi-massive sulfides*** MINERALIZED SILICA STRINGER PIPE (Py 25-30%). White quartz "snake skin" stockwerk. Pat: 30-40% pyrite in quartz-chl breccia. Maybe trace cpy.	0969303	115.60	116.90	1.30	0.28	0.00	0.07	0.04	2.40
116.90	121.90	**SM** ***Massive sulfides*** 2-4% chalcopyrite, trace sph in pyrite crystals 1-3 mm banded with pyrrhotite and magnetite.	0969304	116.90	118.50	1.60	1.07	0.01	0.21	0.17	14.50
			0969305	118.50	120.00	1.50	0.29	0.01	0.21	0.17	13.10
			0969306	120.00	121.00	1.00	0.59	0.01	0.09	0.13	10.30
			0969307	121.00	121.90	0.90	0.66	0.00	0.04	0.14	10.10
121.90	124.70	**SSM** ***Semi-massive sulfides*** 60-70% banded pyrite-pyrrhotite. Trace cpy, maybe.	0969308	121.90	123.40	1.50	0.22	0.00	0.03	0.03	2.50
			0969309	123.40	124.70	1.30	1.17	0.00	0.05	0.02	0.70

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-29** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
124.70	132.90	**V2J** ***Chlorite Andesite or Diorite***	0969310	124.70	125.90	1.20	0.01	0.00	0.04	<0.01	<0.20

ANDESITE
Massive with schistozed chloritized mineralized intervals.

Pat: Gray-green, grain size 0.5 mm. 40-50% plag, 10-30% quartz, rest is chlorite-sericite, plag matrix. 1 m or so on either end is darker green more chloritized.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
124.70 - 132.90	Ser ND	
124.70 - 132.90	Chl ND	Extrait par algorithme

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
130.70 - 131.80	Mt SMS 25	in quartz-chlorite breccia.
130.70 - 131.80	Py SMS 25	

132.90	134.40	**I2I** ***Quartz Diorite***									

INTERMEDIATE INTRUSIVE
Massive, unaltered and unmineralized.

Pat: Gray, grain size 1 mm, 40% plag, 10% quartz, chl, biotite or sericite. Quartz-chl-filled joinnts. Possibly a massive andesite.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
132.90 - 134.40	Ser ND	
132.90 - 134.40	Chl ND	
132.90 - 134.40	Bio ND	Extrait par algorithme

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
134.40	147.00	**Pipe** ***Pipe alteration zone***									

PIPE (litho at 143.20 - 143.30m = RHYOLITE)

Pat: Soft black chlorite, broken by numerous dikes. Some pyrite, but not much. Perhaps rhyolite?

135.8--136.9: sericite diorite.
137.9--141.8: sericite diorite. Lower contact 80 cm of fining, scattered pyrite cubes. Contacts at 85°.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
134.40 - 135.80	Chl ND	Extrait par algorithme
135.80 - 136.90	Ser ND	Extrait par algorithme
137.90 - 141.80	Ser ND	Extrait par algorithme
143.20 - 143.30	Chl ND	Extrait par algorithme
143.30 - 147.00	Ser ND	Extrait par algorithme

Minor Interval:
135.80 136.90 I2J *Sericite Diorite*
INTERMEDIATE INTRUSIVE

Minor Interval:
137.90 141.80 I2J *sericite diorite*
INTERMEDIATE INTRUSIVE
LC (85° CA)

Minor Interval:
134.40 135.80 V3B *Basalt*
BASALT or STRONGLY CHLORITIZED RHYOLITE (as below from lithos).

Alteration Min:	***Type/Style/Intensity***	***Comment***
134.40 - 135.80	Chl ND	Extrait par algorithme

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-29** Project: **DONNER OPTION PHELPS** Project Number: **641**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-29** Project: **DONNER OPTION PHELPS** Project Number: **641**

Whole Rock (part 1 of 1)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Sio2* (%)	*Al2o3* (%)	*Fe2o3* (%)	*Mgo* (%)	*Cao* (%)	*Na2o* (%)	*K2o* (%)	*Tio2* (%)	*P2o5* (%)	*Mno* (%)	*Cr2o3* (%)	*Loi* (%)	*Total* (%)	*Zr* (ppm)	*Y* (ppm)	*Nb* (ppm)	*Rb* (ppm)	*Cu* (ppm)	*Zn* (ppm)
36.00	36.10	0.10	0968745	ALS Chemex	VO10123726	49.60	14	12	5.97	11	2	0	0.90	0	0.20	0.05	2.78	100	59	18	2.70	3.80	90	91
63.00	63.10	0.10	0968746	ALS Chemex	VO10123726	47.60	15	14	8.75	9	1	0	0.88	0	0.19	0.04	4.21	101	59	16	2.60	7.00	111	102
71.90	72.00	0.10	0968747	ALS Chemex	VO10123726	46.90	21	8	4.07	8	4	2	0.59	0	0.11	0.02	5.00	100	42	12	1.80	39.00	59	61
83.90	84.00	0.10	0968748	ALS Chemex	VO10123726	51.70	11	14	13.80	1	0	0	0.36	0	0.14	-0.01	6.59	99	261	60	13.90	0.30	-5	276
90.00	90.10	0.10	0968749	ALS Chemex	VO10123726	55.90	17	10	5.18	2	5	0	1.21	0	0.10	-0.01	3.09	99	315	130	28.40	3.20	34	151
103.00	103.30	0.30	0968750	ALS Chemex	VO10132446	36.40	15	27	8.64	0	0	0	0.58	0	0.36	0.01	8.47	97	141	13	5.00	0.20	44	405
113.90	114.00	0.10	0968751	ALS Chemex	VO10123726	51.70	15	9	5.22	7	2	1	0.77	0	0.17	0.02	7.37	100	105	13	4.20	27.90	31	218
126.00	126.09	0.09	0968752	ALS Chemex	VO10123726	53.20	12	18	8.90	0	0	0	1.14	0	0.16	-0.01	4.79	99	160	47	9.20	0.20	-5	293
136.00	136.10	0.10	0968753	ALS Chemex	VO10123726	48.00	14	8	9.26	7	2	0	0.60	0	0.09	0.06	9.87	99	89	15	7.70	7.10	43	157
143.20	143.30	0.10	0968754	ALS Chemex	VO10123726	26.20	23	15	21.80	0	0	0	0.56	0	0.07	-0.01	10.15	97	588	138	28.40	1.90	591	262

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-29** Project: **DONNER OPTION PHELPS** Project Number: **641**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
99.00	99.70	0.70	0969292	ALS Chemex	VO10105660	0.02	0.01	0.05	0.01	3.40	3
99.70	100.90	1.20	0969293	ALS Chemex	VO10105660	0.10	0.02	>30.00	0.08	54.60	4
100.90	102.00	1.10	0969294	ALS Chemex	VO10105660	0.23	0.02	22.90	0.04	7.80	4
102.00	103.00	1.00	0969295	ALS Chemex	VO10105660	0.24	0.02	6.56	0.08	39.90	5
103.00	104.00	1.00	0969296	ALS Chemex	VO10105660	0.01	0.01	0.49	0.01	0.80	3
104.00	105.20	1.20	0969297	ALS Chemex	VO10105660	0.06	0.02	0.18	0.01	1.00	3
105.20	106.60	1.40	0969298	ALS Chemex	VO10105660	0.25	0.04	0.03	0.12	5.10	5
106.60	107.40	0.80	0969301	ALS Chemex	VO10105660	0.01	0.00	0.03	0.01	<0.20	3
114.70	115.60	0.90	0969302	ALS Chemex	VO10105660	0.00	0.00	0.03	<0.01	<0.20	3
115.60	116.90	1.30	0969303	ALS Chemex	VO10105660	0.28	0.00	0.07	0.04	2.40	3
116.90	118.50	1.60	0969304	ALS Chemex	VO10105660	1.07	0.01	0.21	0.17	14.50	4
118.50	120.00	1.50	0969305	ALS Chemex	VO10105660	0.29	0.01	0.21	0.17	13.10	5
120.00	121.00	1.00	0969306	ALS Chemex	VO10105660	0.59	0.01	0.09	0.13	10.30	5
121.00	121.90	0.90	0969307	ALS Chemex	VO10105660	0.66	0.00	0.04	0.14	10.10	4
121.90	123.40	1.50	0969308	ALS Chemex	VO10105660	0.22	0.00	0.03	0.03	2.50	4
123.40	124.70	1.30	0969309	ALS Chemex	VO10105660	1.17	0.00	0.05	0.02	0.70	4
124.70	125.90	1.20	0969310	ALS Chemex	VO10105660	0.01	0.00	0.04	<0.01	<0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-30** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Drilling

Azimuth:	194.546
Dip:	-56.417
Length:	144
Started:	29-sept-10
Completed:	29-sept-10
Logged:	29-sept-10

Casing

Length:	17.5
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Bell Allard Ra
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	
Contractor:	Forages Rouillier
Spotted by:	
Surveyed:	no
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment:

CGRF for 49°45.68'N, 78°8.55'W on 1 october 2010 are declination -13.8° and total field 56675 nT. Use these values for all eleven subsequent holes.

Coordinate - Gemcom

East:	-18460.11
North:	17231.38
Elev.:	3008.34

Coordinate - UTM

East:	273687.69
North:	5516853.87
Elev.:	3008.34
Zone:	18 **NAD:** NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	194.55	-56.42	C	✔	
30.00	194.50	-56.10	F	✔	5666_199.2
60.00	195.00	-55.60	F	✔	5655_200
90.00	195.00	-55.20	F	✔	5659_199.2
120.00	195.50	-55.20	F	✔	5810_200.5

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-30** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	17.50	**TUB** ***Casing***									
17.50	57.00	**I3A** ***Chlorite Basalt Flows*** Medium green, for the most part massive grain size 0.5 mm, 60% plag in 1.5 mm agglomerations ± epidote, 10-15% chlorite. Also agglomerate portions, up to 75% 1 cm plag and fine-grained amygdular portions perhaps with pillow selvages. This could also be an intrusive, but I think it's a flow structure. 17.5--30.2: massive grading to agglomerate at the end 30.2--30.9: fine-grained dark andesite 30.9--31.6: agglomerate 31.6--41.6: massive 41.6--50.8: agglomerate, grading on both ends 50.8--53.1: fine-grained amygdular glassy andesite 53.1--57.0: agglomerate grading to massive **Minor Interval:** 50.80 53.10 V2J *Andesite* **Minor Interval:** 30.20 30.90 V2J *Andesite*									
57.00	76.40	**V3B** ***Basalt Pillows*** Glassier than the previous flows, perhaps more dacitic, or maybe just more fine-grained. Grain size 0.1-0.2 mm. Some sericite clots.	0967901	75.40	76.40	1.00	0.01	<0.00	0.02	<0.01	<0.20

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		57.0--59.5: glassy pillow interiors 59.5--61.4: broken core grading into massive 61.4--63.1: darker and coarser, feldspar in groundmass is brownish. Perhaps a dike or andesite 63.1--66.5: agglomerate or breccia, +ep 66.5--76.4: f.g. amygdular, chlorite in and out									
		Alteration Maj: ***Type/Style/Intensity*** ***Comment*** 57.00 - 66.50 Ser ND Extrait par algorithme 66.50 - 76.40 Chl ND Extrait par algorithme									
		Minor Interval: 61.40 63.10 I2J *Diorite*									
76.40	88.60	**Pipe** ***Pipe alteration zone*** Maybe a stretch to call it pipe. 20% pyrite, trace chalco, 20% black chlorite basaltic material, rest is amygdular volcanic moderately chloritized. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 76.40 - 88.60 Chl ND Extrait par algorithme	0967902	76.40	78.00	1.60	1.23	0.01	0.06	0.16	9.50
			0967903	78.00	79.50	1.50	0.21	0.01	0.04	0.06	2.10
			0967904	79.50	81.00	1.50	0.24	0.01	0.03	0.06	1.30
			0967905	81.00	82.50	1.50	0.07	0.00	0.03	0.02	0.30
			0967906	82.50	84.00	1.50	0.07	0.00	0.02	0.02	0.30
			0967907	84.00	85.50	1.50	0.07	0.00	0.02	0.02	<0.20
			0967908	85.50	87.00	1.50	0.24	0.01	0.02	0.02	0.50
			0967909	87.00	88.60	1.60	0.40	0.01	0.02	0.03	1.10
88.60	105.80	**V2J** ***Amygdular Andesite*** Generally light green. Some pillow interiors.	0967910	88.60	90.00	1.40	0.03	0.00	0.03	<0.01	<0.20

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-30** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
105.80	131.50	**V2J** ***Massive Andesite***									
		Green, fine-grained. Mostly massive, amygdules are irregular and irregularly shaped, if that's what they are. Grades to lighter material adjacent to pipe, or else there could be a contact at 131.5.									
131.50	136.70	**V3B** ***Basalt***	0967913	135.70	136.70	1.00	0.01	0.00	0.03	<0.01	<0.20
		Minor Interval:									
		131.50 136.70									
136.70	141.90	**Pipe** ***Pipe alteration zone***	0967914	136.70	138.00	1.30	0.01	0.00	0.02	<0.01	<0.20
		80% strongly chloritized dacitic or rhyolitic material, 5% pyrite, 10% quartz veins. Also obvious silica flooding in the groundmass in irregular bands.	0967915	138.00	139.50	1.50	0.02	0.00	0.02	<0.01	<0.20
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***	0967916	139.50	141.00	1.50	0.17	0.00	0.03	0.01	0.30
		136.70 - 141.90 Chl ND Extrait par algorithme	0967917	141.00	141.90	0.90	0.21	0.00	0.03	0.01	0.50

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-30** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
141.90	144.00	**V2J** ***Andesite*** Light gray-green. Grain size 0.5 mm. 80-90% feldspar, 10% mafics, mostly chlorite I think, and maybe 10% quartz? Hard to tell. This is much like what's right on top of the pipe zone, so either they're both dacite or they're both basalt with silica addiiton.	0967918	141.90	142.90	1.00	0.01	0.00	0.02	<0.01	<0.20

Alteration Maj:	*Type/Style/Intensity*	*Comment*
141.90 - 144.00	Chl ND	Extrait par algorithme

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-30** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
27.00	27.10	0.10	0968220	ALS Chemex	VO10150111	47.50	16	11	8.66	10	1	1	0.68	0	0.16	0.03	3.31	99	50	14	2.30	12.40	97	50
47.90	48.00	0.10	0968221	ALS Chemex	VO10150111	46.82	23	7	3.97	11	3	0	0.61	0	0.11	0.01	3.34	100	37	11	1.90	8.30	114	56
51.00	51.10	0.10	0968222	ALS Chemex	VO10150111	63.29	11	8	2.33	7	1	0	0.97	0	0.10	-0.01	3.60	98	196	60	13.80	6.70	28	70
66.00	66.10	0.10	0968223	ALS Chemex	VO10150111	53.03	16	9	4.08	9	1	0	1.23	0	0.14	0.01	4.24	99	113	28	5.10	8.30	247	184
82.30	82.50	0.20	0968224	ALS Chemex	VO10150111	44.13	11	9	9.92	11	0	0	0.57	0	0.13	0.07	13.25	100	72	14	5.90	0.50	23	211
99.00	99.10	0.10	0968225	ALS Chemex	VO10150111	66.05	13	6	1.81	3	5	0	0.64	0	0.10	-0.01	2.72	99	221	49	13.60	4.20	10	104
114.00	114.09	0.09	0968226	ALS Chemex	VO10150111	64.10	13	7	1.77	4	4	0	0.67	0	0.10	-0.01	3.80	99	221	52	13.30	9.30	49	132
125.90	126.00	0.10	0968227	ALS Chemex	VO10150111	64.63	14	6	1.65	2	6	0	0.68	0	0.06	0.01	2.94	98	231	55	13.90	0.60	45	98
136.00	136.19	0.19	0968228	ALS Chemex	VO10150111	48.55	13	15	9.25	4	0	0	1.29	0	0.11	0.02	7.61	99	96	32	5.10	0.30	74	217
136.90	137.10	0.20	0968229	ALS Chemex	VO10150111	56.30	11	14	9.72	1	0	0	0.41	0	0.06	0.01	5.82	98	267	67	13.50	-0.20	68	349
143.70	143.80	0.10	0968230	ALS Chemex	VO10150111	51.31	15	7	4.75	7	4	0	0.66	0	0.06	0.01	8.21	99	97	10	3.40	6.30	10	124

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-30** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
75.40	76.40	1.00	0967901	ALS Chemex	VO10145109	0.01	<0.00	0.02	<0.01	<0.20	3
76.40	78.00	1.60	0967902	ALS Chemex	VO10145109	1.23	0.01	0.06	0.16	9.50	3
78.00	79.50	1.50	0967903	ALS Chemex	VO10145109	0.21	0.01	0.04	0.06	2.10	3
79.50	81.00	1.50	0967904	ALS Chemex	VO10145109	0.24	0.01	0.03	0.06	1.30	3
81.00	82.50	1.50	0967905	ALS Chemex	VO10145109	0.07	0.00	0.03	0.02	0.30	3
82.50	84.00	1.50	0967906	ALS Chemex	VO10145109	0.07	0.00	0.02	0.02	0.30	3
84.00	85.50	1.50	0967907	ALS Chemex	VO10145109	0.07	0.00	0.02	0.02	<0.20	3
85.50	87.00	1.50	0967908	ALS Chemex	VO10145109	0.24	0.01	0.02	0.02	0.50	3
87.00	88.60	1.60	0967909	ALS Chemex	VO10145109	0.40	0.01	0.02	0.03	1.10	3
88.60	90.00	1.40	0967910	ALS Chemex	VO10145109	0.03	0.00	0.03	<0.01	<0.20	3
135.70	136.70	1.00	0967913	ALS Chemex	VO10145109	0.01	0.00	0.03	<0.01	<0.20	3
136.70	138.00	1.30	0967914	ALS Chemex	VO10145109	0.01	0.00	0.02	<0.01	<0.20	3
138.00	139.50	1.50	0967915	ALS Chemex	VO10145109	0.02	0.00	0.02	<0.01	<0.20	3
139.50	141.00	1.50	0967916	ALS Chemex	VO10145109	0.17	0.00	0.03	0.01	0.30	3
141.00	141.90	0.90	0967917	ALS Chemex	VO10145109	0.21	0.00	0.03	0.01	0.50	3
141.90	142.90	1.00	0967918	ALS Chemex	VO10145109	0.01	0.00	0.02	<0.01	<0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-31** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Drilling

Azimuth:	197.21
Dip:	-57.431
Length:	162
Started:	01-oct-10
Completed:	01-oct-10
Logged:	02-oct-10

Casing

Length:	16.1
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Bell Allard Ra
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	
Contractor:	Forages Rouillier
Spotted by:	
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: declination -13.8°, see PD1-10-30.

Coordinate - Gemcom

East:	-18430.9
North:	17220.56
Elev.:	3008.15

Coordinate - UTM

East:	273716.49
North:	5516842.01
Elev.:	3008.15
Zone: 18	**NAD:** NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	197.21	-57.43	N	✔	
30.00	197.20	-56.30	F	✔	5640_200.7
60.00	197.70	-56.50	F	✔	5466_199.8
90.00	197.70	-56.30	F	✔	5642_199.4
120.00	198.20	-56.20	F	✔	5681_199.2

Robin

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-31** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology		Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	16.10	**TUB**	***Casing***									
16.10	59.10	**I3A**	***Chlorite Basalt Flows***									
59.10	66.60	**V2J**	***Sericite Amygdular Andesite***									

Mostly massive or psuedo-agglomerate (or porphyritic?), with some fine-grained glassy portions. Massive has grain size 0.25-0.5 mm, 40% plagioclase, 40% mafics, 20% chlorite. Maybe some quartz? Agglomerate is the same mineralogy, but the plag is up to 1 cm, with ep-chl rinds.

16.1--17.9 massive
17.9--18.5 fine-grained
18.5--31.4 massive
31.4--35.4 agglomerate grading to massive on both ends
35.4--36.9 masive
36.9--37.1 f.g. banded tuff-looking
37.1--43.6 massive grading into agglomerate
43.6--44.7 f.g. some tuff-y portions 1-2 cm
44.7--50.9 agglomerate
50.9--52.7 fine-grained chlorite
52.7--59.1 agglomerate grading to massive

Alteration Maj:	*Type/Style/Intensity*		*Comment*
16.10 - 50.90	Chl	L	Extrait par algorithme
50.90 - 52.70	Chl	ND	Extrait par algorithme

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		Gray, grain size 0.5 mm. Veins and amygdules (0-5%, elongated) are sericitized. May be 25-40% quartz, hard to tell. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 59.10 - 66.60 Ser S Extrait par algorithme									
66.60	88.20	**V3B** ***Basalt pillows*** Medium to apple green pillow interior-ish sericite clots and some breccia. Might be basalt. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 66.60 - 88.20 Ser ND Extrait par algorithme	0967919	87.00	88.20	1.20	0.00	<0.00	0.01	<0.01	<0.20
88.20	98.30	**Pipe** ***Pipe alteration zone*** Not really pipe, but chloritized and corresponds to pipe in the adjacent hole. Chlorite amygdular dacite or rhyolite. Quartz-chl veins. Trace pyrite. Chlorite is strongest on the edges of the zone. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 88.20 - 98.30 Chl ND Extrait par algorithme	0967920	88.20	89.50	1.30	0.22	0.00	0.02	0.01	0.90
			0967921	89.50	91.00	1.50	0.00	0.00	0.01	<0.01	<0.20
			0967922	91.00	92.50	1.50	0.00	0.00	0.01	<0.01	<0.20
			0967923	92.50	94.00	1.50	0.01	0.00	0.01	<0.01	<0.20
			0967924	94.00	95.50	1.50	0.00	0.00	0.01	<0.01	<0.20
			0967925	95.50	97.00	1.50	0.00	0.00	0.03	<0.01	<0.20
			0967926	97.00	98.30	1.30	0.00	0.00	0.03	0.01	<0.20

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-31** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
98.30	115.70	**V2J** ***Amygdular Andesite*** as before. Light green, massive. 104.9--105.1: quartz-chl vein followed by 2 cm of fine-grained banded material. Maybe a flow contact.	0967927	98.30	99.00	0.70	0.01	0.00	0.03	<0.01	<0.20
115.70	117.60	**V2J** ***Andesite*** Vaguely purplish, possibly up to 30% quartz. Also could be a mafic lava with silica addition.									
117.60	124.70	**Pipe** ***Pipe alteration zone*** Green chlorite silica-depleted andesite grading into black talc-chlorite. Some (3-5%) roughly banded pyrite, fine-grained and 1 mm cubes.	0967930	122.30	123.40	1.10	0.01	0.00	0.05	0.01	<0.20
			0967931	123.40	124.70	1.30	0.02	0.00	0.07	0.02	0.20

Alteration Maj:	*Type/Style/Intensity*	*Comment*
117.60 - 124.70	Tlc L	
117.60 - 124.70	Chl L	Extrait par algorithme

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-31** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
124.70	131.70	**V2J** ***Chlorite Leucoxene Andesite*** Dark green, 0.25 mm grain size. Perhaps a different facies but altered. 3-5% 0.1 mm sphene. Grades from softer chlorite material to lighter coarser grained material.	0967932	124.70	126.00	1.30	0.00	0.00	0.03	0.01	<0.20
			0967933	130.60	131.70	1.10	0.01	0.00	0.03	<0.01	<0.20
131.70	136.30	**SM** ***Massive sulfides*** 131.7--131.9 40% cpy, 10% py, 50% pipe 131.9--135.2 80% py, trace cpy 135.2--136.1 chlorite leucoxene basalt grading to pipe 136.1--136.3 70% py, 10% po	0967934	131.70	133.00	1.30	2.54	0.01	0.08	0.14	8.00
			0967935	133.00	134.00	1.00	0.36	0.02	0.04	0.18	5.20
			0967936	134.00	135.20	1.20	0.12	0.02	0.05	0.11	2.60
			0967937	135.20	136.30	1.10	0.16	0.00	0.03	<0.01	<0.20
		Alteration Maj: ***Type/Style/Intensity*** ***Comment*** 135.20 - 136.10 Chl ND Extrait par algorithme									
		Minor Interval: 135.20 136.10 V3B *Chlorite Leucoxene Basalt*									
136.30	139.60	**V2J** ***Andesite*** Dark green, possibly spherulitic.	0967938	136.30	137.30	1.00	0.01	0.00	0.04	<0.01	<0.20

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-31** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
139.60	140.30	**Pipe** ***Pipe alteration zone*** Soft dark green chlorite-talc material. Trace py. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 139.60 - 140.30 Tlc ND 139.60 - 140.30 Chl ND Extrait par algorithme	0967939	139.60	140.30	0.70	0.01	0.01	0.04	0.01	<0.20
140.30	143.80	**SM** ***Massive sulfides*** 50% mt, 40% py.	0967940	140.30	141.60	1.30	1.00	0.01	0.03	0.01	2.50
			0967941	141.60	142.30	0.70	1.95	0.01	0.05	0.21	3.20
			0967942	142.30	143.80	1.50	1.06	0.01	0.02	0.11	2.40
143.80	144.40	**SSM** ***Semi-massive sulfides*** 40% mt, 20% py.	0967943	143.80	144.40	0.60	0.49	0.00	0.02	0.03	0.50
144.40	146.10	**I2J** ***Leucoxene Quartz Diorite*** Purplish gray. May also be a diorite, but contacts are in line with the rest of the bedding, so I'd say it's the basalt with silica addition? Quartz-filled joints.	0967944	144.40	146.10	1.70	0.01	<0.00	0.03	0.01	<0.20

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-31** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
146.10	150.20	**Pipe** ***Pipe alteration zone*** soft dark green material, 10% py, trace cpy.	0967945	146.10	147.00	0.90	0.98	0.01	0.02	0.01	1.20
			0967946	147.00	148.50	1.50	0.51	0.01	0.03	0.02	0.80
			0967947	148.50	150.20	1.70	0.12	0.01	0.02	0.01	<0.20
150.20	151.30	**I2J** ***Carbonate diorite*** Light gray-brownish, grain size ~0.25 mm. These must be some sort of alteration product, but we keep calling them dikes. Comes up calc-alkaline, though, so maybe a dike.	0967948	150.20	151.30	1.10	0.01	0.00	0.02	<0.01	<0.20
151.30	156.40	**Pipe** ***Pipe alteration zone*** Uniform soft black talc-chlorite, Trace cpy, only in a couple of joints.	0967949	151.30	153.00	1.70	0.00	0.00	0.08	0.01	0.30
			0967950	153.00	154.50	1.50	0.00	0.00	0.07	<0.01	0.20
			0967951	154.50	156.00	1.50	0.48	0.00	0.04	0.01	0.80
			0967952	156.00	156.40	0.40	0.13	0.00	0.03	<0.01	0.30

Alteration Maj:	*Type/Style/Intensity*	*Comment*
151.30 - 156.40	Tlc ND	
151.30 - 156.40	Chl ND	Extrait par algorithme

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-31** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
156.40	162.00	**V1D** ***Chlorite Dacite*** Medium-dark green. Qtz in groundmass and qtz-filled vugs or secondary crystals 0.5--5 cm.	0967953	156.40	157.10	0.70	0.14	0.00	0.02	<0.01	0.20

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-31** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
23.90	24.00	0.10	0968231	ALS Chemex	VO10150111	49.86	14	13	6.52	8	2	0	0.99	0	0.18	0.02	3.09	98	71	20	3.10	2.40	86	102
45.00	45.10	0.10	0968232	ALS Chemex	VO10150111	43.58	19	9	6.44	8	3	2	0.51	0	0.14	0.02	7.76	99	31	9	1.40	55.60	90	72
62.90	63.00	0.10	0968233	ALS Chemex	VO10150111	68.96	13	4	1.49	2	5	0	0.65	0	0.05	-0.01	1.98	98	221	52	13.40	8.40	161	64
78.00	78.10	0.10	0968234	ALS Chemex	VO10150111	42.94	19	7	3.45	11	3	3	0.47	0	0.13	0.01	9.73	100	32	9	1.30	62.80	60	112
93.00	93.20	0.20	0968235	ALS Chemex	VO10150111	62.41	8	9	8.89	4	0	0	0.25	0	0.09	-0.01	6.78	100	197	62	10.50	0.50	17	111
102.00	102.09	0.09	0968236	ALS Chemex	VO10150111	64.99	13	7	2.02	3	4	1	0.69	0	0.09	-0.01	3.34	99	228	46	13.90	19.90	10	115
117.00	117.09	0.09	0968237	ALS Chemex	VO10150111	60.91	14	8	4.52	2	3	1	0.94	0	0.15	-0.01	4.38	99	266	94	22.90	12.70	30	208
124.50	124.80	0.30	0968238	ALS Chemex	VO10150111	26.34	19	30	13.87	0	0	0	0.95	0	0.28	0.01	8.57	99	261	16	7.70	0.20	51	339
129.00	129.10	0.10	0968239	ALS Chemex	VO10150111	58.09	13	13	6.50	0	1	1	1.10	0	0.13	0.01	4.42	99	214	65	11.90	11.80	193	320
137.90	138.00	0.10	0968240	ALS Chemex	VO10150111	53.77	13	20	6.70	0	0	0	1.33	0	0.19	0.01	4.95	100	174	46	9.70	0.60	14	380
143.50	143.80	0.30	0968241	ALS Chemex	VO10150111	16.23	1	71	6.49	1	0	0	0.03	0	0.10	0.02	2.39	98	15	6	-0.20	0.60	6220	136
145.90	146.10	0.20	0968245	ALS Chemex	VO10150111	33.68	18	22	14.75	0	0	0	0.83	0	0.12	0.05	8.57	99	131	16	5.30	0.70	23	396
149.80	150.00	0.20	0968242	ALS Chemex	VO10150111	27.79	19	26	15.84	1	0	0	0.56	0	0.12	0.01	9.34	99	469	106	23.20	0.50	84	265
150.30	150.50	0.20	0968243	ALS Chemex	VO10150111	47.70	13	9	9.75	6	1	0	0.65	0	0.11	0.04	9.84	99	101	17	8.40	3.40	59	152
159.00	159.10	0.10	0968244	ALS Chemex	VO10150111	62.99	14	6	10.05	0	0	1	0.35	0	0.02	-0.01	5.28	100	312	67	15.40	24.50	35	122

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-31** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Sg
87.00	88.20	1.20	0967919	ALS Chemex	VO10145108	0.00	<0.00	0.01	<0.01	<0.20	3
88.20	89.50	1.30	0967920	ALS Chemex	VO10145108	0.22	0.00	0.02	0.01	0.90	3
89.50	91.00	1.50	0967921	ALS Chemex	VO10145108	0.00	0.00	0.01	<0.01	<0.20	3
91.00	92.50	1.50	0967922	ALS Chemex	VO10145108	0.00	0.00	0.01	<0.01	<0.20	3
92.50	94.00	1.50	0967923	ALS Chemex	VO10145108	0.01	0.00	0.01	<0.01	<0.20	3
94.00	95.50	1.50	0967924	ALS Chemex	VO10145108	0.00	0.00	0.01	<0.01	<0.20	3
95.50	97.00	1.50	0967925	ALS Chemex	VO10145108	0.00	0.00	0.03	<0.01	<0.20	3
97.00	98.30	1.30	0967926	ALS Chemex	VO10145108	0.00	0.00	0.03	0.01	<0.20	3
98.30	99.00	0.70	0967927	ALS Chemex	VO10145108	0.01	0.00	0.03	<0.01	<0.20	3
122.30	123.40	1.10	0967930	ALS Chemex	VO10146400	0.01	0.00	0.05	0.01	<0.20	3
123.40	124.70	1.30	0967931	ALS Chemex	VO10146400	0.02	0.00	0.07	0.02	0.20	3
124.70	126.00	1.30	0967932	ALS Chemex	VO10146400	0.00	0.00	0.03	0.01	<0.20	3
130.60	131.70	1.10	0967933	ALS Chemex	VO10146400	0.01	0.00	0.03	<0.01	<0.20	3
131.70	133.00	1.30	0967934	ALS Chemex	VO10146400	2.54	0.01	0.08	0.14	8.00	4
133.00	134.00	1.00	0967935	ALS Chemex	VO10146400	0.36	0.02	0.04	0.18	5.20	5
134.00	135.20	1.20	0967936	ALS Chemex	VO10146400	0.12	0.02	0.05	0.11	2.60	4
135.20	136.30	1.10	0967937	ALS Chemex	VO10146400	0.16	0.00	0.03	<0.01	<0.20	3
136.30	137.30	1.00	0967938	ALS Chemex	VO10146400	0.01	0.00	0.04	<0.01	<0.20	3
139.60	140.30	0.70	0967939	ALS Chemex	VO10146400	0.01	0.01	0.04	0.01	<0.20	3
140.30	141.60	1.30	0967940	ALS Chemex	VO10146400	1.00	0.01	0.03	0.01	2.50	4
141.60	142.30	0.70	0967941	ALS Chemex	VO10146400	1.95	0.01	0.05	0.21	3.20	5
142.30	143.80	1.50	0967942	ALS Chemex	VO10146400	1.06	0.01	0.02	0.11	2.40	4
143.80	144.40	0.60	0967943	ALS Chemex	VO10146400	0.49	0.00	0.02	0.03	0.50	3
144.40	146.10	1.70	0967944	ALS Chemex	VO10146400	0.01	<0.00	0.03	0.01	<0.20	3
146.10	147.00	0.90	0967945	ALS Chemex	VO10146400	0.98	0.01	0.02	0.01	1.20	3
147.00	148.50	1.50	0967946	ALS Chemex	VO10146400	0.51	0.01	0.03	0.02	0.80	3
148.50	150.20	1.70	0967947	ALS Chemex	VO10146400	0.12	0.01	0.02	0.01	<0.20	3
150.20	151.30	1.10	0967948	ALS Chemex	VO10146400	0.01	0.00	0.02	<0.01	<0.20	3
151.30	153.00	1.70	0967949	ALS Chemex	VO10146400	0.00	0.00	0.08	0.01	0.30	3
153.00	154.50	1.50	0967950	ALS Chemex	VO10146400	0.00	0.00	0.07	<0.01	0.20	3

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-31** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
154.50	156.00	1.50	0967951	ALS Chemex	VO10146400	0.48	0.00	0.04	0.01	0.80	3
156.00	156.40	0.40	0967952	ALS Chemex	VO10146400	0.13	0.00	0.03	<0.01	0.30	2
156.40	157.10	0.70	0967953	ALS Chemex	VO10146400	0.14	0.00	0.02	<0.01	0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-32** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Drilling

Azimuth:	195.406
Dip:	-52.336
Length:	156
Started:	04-oct-10
Completed:	04-oct-10
Logged:	05-oct-10

Casing

Length:	25
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Bell Allard Ra
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	Richard Nieminen
Contractor:	Forages Rouillier
Spotted by:	
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: Declination -13.8°, see PD1-10-30.

Coordinate - Gemcom

East:	-18403.01
North:	17215.15
Elev.:	3008.32

Coordinate - UTM

East:	273744.17
North:	5516835.6
Elev.:	3008.32
Zone: 18	**NAD:** NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	195.41	-52.34	C	✔	
30.00	195.40	-53.20	F	✔	5636_200.1
60.00	195.90	-53.10	F	✔	5642_200
90.00	195.90	-52.70	F	✔	5633_198.6
120.00	162.50	-50.80	F		8214
156.00	196.40	-50.10	F	✔	5620_198.2

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-32** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	25.00	**TUB** *Casing*									
25.00	99.80	**I3A** *Gabbro*									

LEUCO GABBRO: More chloritic frmo around 80.0 to 90.0m then becoming glomero phyric and leucocratic.

Pat: Medium-darkish green overall, grain size 0.3--0.5 mm. Plagioclase is slightly agglomerated which makes it look coarser grained. Qtz-carb veins at all angles up to 1 cm ± sericite, epidote and a laminated greenish clay mineral. Some fine-grained portions as noted. I lean towards volcanic because of the traces of pyrite and rusted pyrite in the finer-grained portions, and what appears to be some clay minerals.

25.0--31.2 c.g. massive
31.2--32.0 f.g., ser
32.0--35.1 c.g. massive
35.1--35.5 finer grained, bluish (dike?)
35.5--37.6 c.g. massive
37.6--38.0 f.g. trace pyrite
38.0--44.7 c.g. massive
44.7--45.3 quartz-chl vein
45.3--49.6 c.g. massive
49.6--51.4 f.g. banding (may be fault) some rusted pyrite
51.4--80.9 c.g. massive fining around qtz-carb-ser veins
80.9--85.8 c.g. darker, fining around qtz-carb-ser veins
85.8--86.3 tuff aspect
86.3--90.6 c.g. darker
90.6--93.2 agglomerate
93.2--99.8 c.g. chl phenocrysts increased ser

Alteration Maj:	*Type/Style/Intensity*	*Comment*
25.00 - 93.20	Ser L	

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		25.00 - 93.20 Epi L 25.00 - 93.20 Chl S Extrait par algorithme 31.20 - 32.00 Ser ND Extrait par algorithme 93.20 - 99.80 Chl ND Extrait par algorithme									
99.80	116.20	**V2J** ***Silicified Amygdular Andesite*** ANDESITE FLOWS: some massive and some breccia textures, locally pyrite stringers. 113.00--116.20: Increasing presence of chert downhole towards the contact (1-5%). Pat: Dark gray, grain size ~0.25 mm plag in chloritized groundmass. Amygdules are ~1 mm, qtz-filled. 10-15% 2-5 cm zones of silicification in the groundmass. This may also be some sort of mega-breccia flow and these are flow contacts. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 113.00 - 116.20 Sil ND 113.00 - 116.20 Chl ND Extrait par algorithme ***Structure Maj.:*** ***Type/Core Angle*** ***Comment*** 100.55 - 100.60 fai 60 Good mud seam.	0967956	114.80	116.20	1.40	0.01	0.01	0.07	0.01	0.70
116.20	117.70	**SSM** ***Semi-massive sulfides*** 60% pyrite, 10% pyrrhotite, rest is either black chloritized andesite. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 116.20 - 117.70 Chl ND Extrait par algorithme	0967957	116.20	117.70	1.50	0.08	0.02	1.43	0.03	14.90

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-32** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
117.70	122.00	**T** ***Tuffite***	0967958	117.70	119.40	1.70	0.01	0.01	0.60	<0.01	0.70
			0967959	119.40	120.60	1.20	0.01	0.00	0.28	<0.01	0.20
			0967960	120.60	122.00	1.40	0.02	0.00	0.07	<0.01	0.70

CHERTY TUFFITE; banded at 60° CA.

Pat: 12% pyrite, 25% chlorite andesite, 25% fine-grained tuff, rest is chert-tuff breccia or banded.

117.7--117.8 roughly banded pyrite and white material
117.8--118.8 andesite roughly brecciated with silica, some pyrite
118.8--119.4 roughyl banded chert-pyrite-tuff
119.4--122.0 banded on a 50-60 cm scale, cherty breccia, fine-grained tuff, chlorite andesite. Pyrite throughout

Alteration Maj:	Type/Style/Intensity	Comment
117.70 - 119.40	Chl L	Extrait par algorithme
119.40 - 122.00	Chl L	Extrait par algorithme

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
122.00	123.20	**SM** ***Massive sulfides***	0967961	122.00	123.20	1.20	0.39	0.07	4.13	0.04	20.80

90% pyrite, trace-1% sphalerite, chlorite, silica

Alteration Maj:	Type/Style/Intensity	Comment
122.00 - 123.20	Chl ND	Extrait par algorithme

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-32** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
123.20	124.20	**V2J** ***Andesite*** ANDESITE: Chloritic, leucoxene. Pat: Fine-grained. Possibly andesite. Upper contact wavy at 45 then 10°, lower contact at 80°. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 123.20 - 124.20 Chl ND Extrait par algorithme	0967962	123.20	124.20	1.00	0.02	0.05	0.16	<0.01	1.50
124.20	125.80	**SSM** ***Semi-massive sulfides*** 65% pyrite, 10% pyrrhotite, rest is qtz, some bands of chlorite andesite ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 124.20 - 125.80 Chl L Extrait par algorithme **Minor Interval:** 124.75 124.80 PIPE *Pipe alteration zone* PIPE stringer (50° CA).	0967963	124.20	125.80	1.60	0.55	0.05	0.56	0.02	8.90
125.80	130.20	**V2J** ***Andesite*** ANDESITE: Massive, greyish. (I2?). Pat: Light gray, grain size 0.5 mm. Contacts 50 cm of softer chloritized material. Possibly andesite. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment***	0967964	125.80	126.50	0.70	0.01	0.00	0.12	<0.01	<0.20
			0967965	129.90	130.20	0.30	0.00	0.00	0.08	<0.01	<0.20

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		125.80 - 130.20 Chl ND Extrait par algorithme									
130.20	141.30	**SM** ***Massive sulfides*** 75% pyrite, 10% pyrrhotite, 3-4% chalcopyrite, trace sphalerite. There could be more sphalerite. Rest is chlorite, quartz. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 130.20 - 141.30 Chl ND Extrait par algorithme	0967966	130.20	130.90	0.70	0.11	0.01	4.52	0.06	5.80
			0967967	130.90	132.00	1.10	0.24	0.02	0.78	0.03	8.80
			0967968	132.00	133.20	1.20	0.37	0.02	0.18	0.07	6.40
			0967969	133.20	135.00	1.80	0.54	0.02	0.22	0.07	6.30
			0967970	135.00	136.30	1.30	1.04	0.01	0.06	0.17	12.30
			0967971	136.30	137.80	1.50	1.20	0.01	0.04	0.34	25.20
			0967972	137.80	139.20	1.40	0.96	0.01	0.04	0.22	16.50
			0967973	139.20	140.10	0.90	0.73	0.01	0.06	0.09	6.60
			0967974	140.10	141.30	1.20	0.99	0.01	0.04	0.09	8.40
141.30	144.60	**SSM** ***Semi-massive sulfides*** 60% pyrite, 10% magnetite/pyrrhotite, trace cpy. (In a black chlorite matrix.RLN). ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 141.30 - 144.60 Chl ND Extrait par algorithme	0967975	141.30	142.80	1.50	1.82	0.01	0.23	0.05	6.70
			0967976	142.80	143.60	0.80	0.62	0.00	0.03	0.01	1.90
			0967977	143.60	144.60	1.00	0.36	0.00	0.04	<0.01	0.20
144.60	147.30	**V2J** ***Andesite*** ANDESITE: Massive. (I2?) Pat: Fairly fresh, light gray. Some silica addition. Contacts are grading to chloritized for 50-60 cm.	0967978	144.60	145.40	0.80	0.02	0.00	0.03	<0.01	<0.20

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)

147.30 150.10 **Pipe** ***Pipe alteration zone***

Pipe to sub-pipe, strong dark green chlorite.

Pat: Soft glossy black talc-chlorite material, 2-3% quartz veins, <2% pyrite, one bleb of cpy.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
147.30 - 150.10	Tlc ND	
147.30 - 150.10	Chl ND	Extrait par algorithme

150.10 155.20 **V2J** ***Andesite***

ANDESITE: massive.

Pat: as before. Some zones of silica addition.

155.20 156.00 **Pipe** ***Pipe alteration zone***

Talc-chlorite, some quartz veins. No sulfides.

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-32** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)

Alteration Maj:	Type/Style/Intensity	Comment
155.20 - 156.00	Tlc ND	
155.20 - 156.00	Chl ND	Extrait par algorithme

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-32** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
32.60	32.70	0.10	0968246	ALS Chemex	VO10150111	52.96	15	10	4.82	9	3	0	0.89	0	0.11	0.02	2.10	98	86	15	3.50	2.20	35	57
42.00	42.10	0.10	0968247	ALS Chemex	VO10150111	50.58	14	13	5.98	8	2	0	0.95	0	0.16	0.03	3.57	98	80	22	3.40	3.00	207	90
49.20	49.30	0.10	0968248	ALS Chemex	VO10150111	42.66	9	8	10.30	13	0	0	0.62	1	0.14	0.08	14.10	99	146	22	5.20	2.50	67	85
66.00	66.10	0.10	0968249	ALS Chemex	VO10150111	48.42	14	12	7.80	9	3	1	0.85	0	0.20	0.06	4.58	100	65	18	2.70	16.10	110	88
87.00	87.10	0.10	0968250	ALS Chemex	VO10150111	47.42	14	13	8.70	9	2	0	0.85	0	0.19	0.03	5.22	100	73	20	3.00	5.80	151	98
110.90	111.00	0.10	0968051	ALS Chemex	VO10153271	63.69	12	8	3.32	4	3	0	0.68	0	0.06	0.01	3.95	99	204	67	18.80	9.10	28	135
118.40	118.59	0.19	0968052	ALS Chemex	VO10153271	37.79	17	23	11.56	0	0	0	1.71	0	0.43	0.02	7.14	100	120	28	7.30	2.10	15	950
119.20	119.40	0.20	0968053	ALS Chemex	VO10153271	58.48	13	14	1.34	0	1	4	0.46	0	0.04	0.01	8.13	100	103	12	4.10	84.50	158	>10000
120.80	121.00	0.20	0968054	ALS Chemex	VO10153271	58.91	16	10	5.30	0	0	3	0.63	0	0.21	0.01	4.31	99	148	14	5.80	67.60	44	323
123.50	123.69	0.19	0968055	ALS Chemex	VO10153271	47.59	14	21	8.88	0	0	0	0.74	0	0.55	0.01	5.85	99	102	13	4.50	0.50	10	446
127.10	127.19	0.09	0968056	ALS Chemex	VO10153271	52.85	15	8	4.73	6	2	2	0.74	0	0.25	0.01	7.18	99	106	14	4.70	38.90	43	196
145.90	146.00	0.10	0968057	ALS Chemex	VO10153271	54.61	15	10	6.47	2	4	0	0.69	0	0.09	0.02	5.02	98	75	12	3.10	8.90	11	222
148.40	148.50	0.10	0968058	ALS Chemex	VO10153271	26.33	17	30	15.27	0	0	0	0.56	0	0.12	-0.01	9.24	98	408	112	20.80	0.20	3620	381
153.00	153.10	0.10	0968059	ALS Chemex	VO10153271	44.80	12	9	9.10	10	1	0	0.57	0	0.14	0.06	11.70	98	73	15	7.20	2.20	27	102

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-32** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
114.80	116.20	1.40	0967956	ALS Chemex	VO10150110	0.01	0.01	0.07	0.01	0.70	3
116.20	117.70	1.50	0967957	ALS Chemex	VO10150110	0.08	0.02	1.43	0.03	14.90	4
117.70	119.40	1.70	0967958	ALS Chemex	VO10150110	0.01	0.01	0.60	<0.01	0.70	3
119.40	120.60	1.20	0967959	ALS Chemex	VO10150110	0.01	0.00	0.28	<0.01	0.20	3
120.60	122.00	1.40	0967960	ALS Chemex	VO10150110	0.02	0.00	0.07	<0.01	0.70	3
122.00	123.20	1.20	0967961	ALS Chemex	VO10150110	0.39	0.07	4.13	0.04	20.80	5
123.20	124.20	1.00	0967962	ALS Chemex	VO10150110	0.02	0.05	0.16	<0.01	1.50	3
124.20	125.80	1.60	0967963	ALS Chemex	VO10150110	0.55	0.05	0.56	0.02	8.90	4
125.80	126.50	0.70	0967964	ALS Chemex	VO10150110	0.01	0.00	0.12	<0.01	<0.20	3
129.90	130.20	0.30	0967965	ALS Chemex	VO10150110	0.00	0.00	0.08	<0.01	<0.20	3
130.20	130.90	0.70	0967966	ALS Chemex	VO10150110	0.11	0.01	4.52	0.06	5.80	4
130.90	132.00	1.10	0967967	ALS Chemex	VO10150110	0.24	0.02	0.78	0.03	8.80	5
132.00	133.20	1.20	0967968	ALS Chemex	VO10150110	0.37	0.02	0.18	0.07	6.40	4
133.20	135.00	1.80	0967969	ALS Chemex	VO10150110	0.54	0.02	0.22	0.07	6.30	4
135.00	136.30	1.30	0967970	ALS Chemex	VO10150110	1.04	0.01	0.06	0.17	12.30	4
136.30	137.80	1.50	0967971	ALS Chemex	VO10150110	1.20	0.01	0.04	0.34	25.20	4
137.80	139.20	1.40	0967972	ALS Chemex	VO10150110	0.96	0.01	0.04	0.22	16.50	4
139.20	140.10	0.90	0967973	ALS Chemex	VO10150110	0.73	0.01	0.06	0.09	6.60	4
140.10	141.30	1.20	0967974	ALS Chemex	VO10150110	0.99	0.01	0.04	0.09	8.40	5
141.30	142.80	1.50	0967975	ALS Chemex	VO10150110	1.82	0.01	0.23	0.05	6.70	4
142.80	143.60	0.80	0967976	ALS Chemex	VO10150110	0.62	0.00	0.03	0.01	1.90	4
143.60	144.60	1.00	0967977	ALS Chemex	VO10150110	0.36	0.00	0.04	<0.01	0.20	3
144.60	145.40	0.80	0967978	ALS Chemex	VO10150110	0.02	0.00	0.03	<0.01	<0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-33** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Drilling

Azimuth:	197.675
Dip:	-49.506
Length:	159
Started:	05-oct-10
Completed:	06-oct-10
Logged:	07-oct-10

Casing

Length:	35.5
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Bell Allard Ra
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	Richard Nieminen
Contractor:	Forages Rouillier
Spotted by:	
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: Declination -13.8°, see PD1-10-30.

Coordinate - Gemcom

East:	-18372.12
North:	17199.19
Elev.:	3008.2

Coordinate - UTM

East:	273774.46		
North:	5516818.54		
Elev.:	3008.2		
Zone:	18	**NAD:**	NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	197.68	-49.51	C	✔	
51.00	197.70	-47.90	F	✔	5638_201.4
81.00	198.20	-48.60	F	✔	5614_198.2
111.00	197.30	-48.20	F	✔	5701_197.3
159.00	198.20	-47.90	F	✔	5686_198.2

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-33** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	35.50	**TUB** ***Casing***									
35.50	97.60	**I3A** ***Gabbro***	0967981	96.00	97.50	1.50	0.01	0.00	0.02	<0.01	0.20

LEUCO GABBRO: Massive, coarse to medium grained.

Pat: 30-60% 1 mm plagioclase and epidote/chlorite in mafic chlorite matrix 0.5-1 mm. I called this basalt in some of the previous holes because of flow textures, but in this one it's pretty homogeneously massive. It gets slightly glassier with depth; if the samples are different the contact is at 59.6 m.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
35.50 - 97.60	Epi ND	
35.50 - 97.60	Chl ND	Extrait par algorithme

Structure Maj.:	*Type/Core Angle*	*Comment*
39.20 - 40.40	fai 65	Fault zone with "dry" gashes.

97.60	98.70	**V2J** ***Andesite***	0967982	97.50	98.70	1.20	0.07	0.04	1.00	0.04	9.40

ANDESITE: FINE GRAINED AND CHLORITORIZED, LEUCOXENE.

Pat: pipe, soft chlorite, 1% qtz-carb veins, 5% py.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
97.60 - 98.70	Chl ND	Extrait par algorithme

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		Structure Maj.: ***Type/Core Angle*** ***Comment***									
		97.60 - 97.63 fai 70 Mud.									
98.70	100.50	**SM** ***Massive sulfides***	0967983	98.70	99.60	0.90	0.06	0.69	2.42	0.09	22.30
		75% py, 20% sph, black chlorite and quartz. Wavy and roughly banded at 50°, but also some cross-bedding at 80°.	0967984	99.60	100.50	0.90	0.04	0.23	17.95	0.19	20.80
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		98.70 - 100.50 Chl L Extrait par algorithme									
100.50	109.80	**V2J** ***Andesite or Diorite***	0967985	100.50	101.70	1.20	0.00	0.01	0.07	0.03	0.20
		ANDESITE (I2?): Massive.	0967986	108.80	109.80	1.00	0.00	0.01	0.09	0.03	4.50
		Pat: Massive pale gray. Upper contact is 1.5 m of chlorite, qtz veins. Lower contact is 0.5 m of chlorite.									
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		100.50 - 109.80 Chl ND Extrait par algorithme									
		Structure Maj.: ***Type/Core Angle*** ***Comment***									
		100.50 - 101.60 vei 15% of large tension quartz veining.									

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-33** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
109.80	118.10	**SM** ***Massive sulfides***	0967987	109.80	111.20	1.40	0.59	0.07	4.40	0.07	9.40
		85% py, 7% sph, rest is chlorite or quartz in spots, bands. Bedding at 55°.	0967988	111.20	112.40	1.20	0.62	0.07	4.92	0.11	83.60
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***	0967989	112.40	113.60	1.20	0.52	0.06	11.65	0.07	53.00
		109.80 - 118.10 Chl ND Extrait par algorithme	0967990	113.60	114.40	0.80	0.06	0.08	8.76	0.07	24.90
			0967991	114.40	115.30	0.90	0.27	0.04	8.91	0.07	11.20
			0967992	115.30	116.70	1.40	0.27	0.03	3.43	0.08	9.50
			0967993	116.70	118.10	1.40	0.21	0.04	3.32	0.06	12.80
118.10	121.00	**T** ***Tuffite***	0967994	118.10	119.60	1.50	0.02	0.01	0.28	<0.01	0.80
		ASH TUFF (?): Mineralized, banded (50° CA).	0967995	119.60	121.00	1.40	0.03	0.01	0.60	0.02	1.00
		Pat: Perhaps just very altered andesitic tuff. Light gray, soft. 5-10% pyrite throughout.									
121.00	129.30	**SM** ***Massive sulfides***	0967996	121.00	122.40	1.40	1.28	0.02	0.82	0.12	6.30
		90% pyrite, 2-3% cpy. Rest is black chlorite. If there is a bedding, it's at 70° or so.	0967997	122.40	123.70	1.30	1.38	0.03	0.97	0.15	10.80
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***	0967998	123.70	125.10	1.40	0.77	0.03	0.62	0.21	12.60
		121.00 - 129.30 Chl ND Extrait par algorithme	0967999	125.10	126.60	1.50	0.66	0.04	0.12	0.17	14.10
			0968000	126.60	127.90	1.30	0.82	0.07	0.04	0.23	16.60
			0968901	127.90	129.30	1.40	1.16	0.04	0.72	0.15	17.40

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-33** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
129.30	132.60	**T** ***Tuffite***	0968904	129.30	130.90	1.60	0.04	0.01	0.77	0.01	1.30
		TUFF: Mineralized Py, banded (60° CA).	0968905	130.90	132.60	1.70	0.05	0.01	0.30	<0.01	0.40
		Pat: Tuff, sericite quartz, and pyrite banded.									
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		129.30 - 132.60 Ser L Extrait par algorithme									
132.60	134.00	**SSM** ***Semi-massive sulfides***	0968906	132.60	134.00	1.40	0.59	0.01	0.04	0.03	2.40
		60% pyrite in black alteration pipe material									
134.00	150.50	**Pipe** ***Pipe alteration zone***	0968907	134.00	135.30	1.30	0.27	0.00	0.06	0.01	0.90
		PIPE: Mineralized Py (5-7%). (or mineralized tuff?).	0968908	135.30	136.80	1.50	0.50	0.00	0.04	0.01	0.50
		Pat: soft dark black chlorite, up to 25% py and trace cpy. Almost 50% diorite dikes or fresh andesite portions as noted.	0968909	136.80	138.00	1.20	0.01	0.00	0.03	<0.01	<0.20
			0968910	138.00	138.90	0.90	0.01	<0.00	0.02	<0.01	<0.20
		136.8--138.9: diorite	0968911	138.90	139.90	1.00	0.12	0.01	0.04	0.04	1.20
		140.2--142.3: diorite	0968912	139.90	141.00	1.10	0.01	0.00	0.03	<0.01	<0.20
		145.4--147.6: diorite	0968913	141.00	142.30	1.30	0.01	<0.00	0.03	<0.01	<0.20
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***	0968914	142.30	143.70	1.40	0.07	0.00	0.05	0.01	0.40
		134.00 - 150.50 Chl ND Extrait par algorithme	0968915	143.70	145.40	1.70	0.01	0.00	0.06	<0.01	0.30

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-33** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
			0968916	145.40	146.80	1.40	0.02	<0.00	0.02	<0.01	<0.20
			0968917	146.80	147.60	0.80	0.01	0.00	0.03	<0.01	<0.20
		Minor Interval:	0968918	147.60	148.80	1.20	0.35	0.00	0.05	0.03	3.20
		136.80 138.90 I2J *Diorite*	0968919	148.80	149.50	0.70	0.05	0.01	0.05	0.03	1.30
		Minor Interval:	0968920	149.50	150.50	1.00	0.02	<0.00	0.03	<0.01	<0.20
		140.20 142.30 I2J *Diorite*									
150.50	159.00	**V2J** ***Amygdular andesite or basalt***									

ANDESITE: True andesite.

Pat: Medium green. Amygdules up to 50% 2 mm in some places and 0-5% 5 mm in others, as flow lobe textures. Some chlorite-qtz-carb veins ± py. Upper 60 cm looks like the diorite dikes in the pipe, but there's no contact. This makes me think those are "fresh" andesite portions.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
150.50 - 159.00	Chl S	Extrait par algorithme

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-33** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
48.00	48.10	0.10	0968060	ALS Chemex	VO10153271	43.62	8	17	16.70	8	0	0	0.53	0	0.27	0.02	4.24	99	35	10	1.60	1.10	140	76
63.00	63.10	0.10	0968061	ALS Chemex	VO10153271	48.54	15	13	7.42	9	2	0	0.89	0	0.19	0.02	2.89	99	61	19	2.90	8.20	94	66
89.90	90.00	0.10	0968062	ALS Chemex	VO10153271	49.14	14	13	7.50	9	3	0	0.90	0	0.19	0.05	2.69	100	58	18	2.80	0.90	105	58
105.00	105.09	0.09	0968070	ALS Chemex	VO10153271	63.16	15	8	2.65	2	5	1	0.74	0	0.08	0.01	2.45	100	227	59	16.00	12.40	6	121
109.10	109.30	0.20	0968063	ALS Chemex	VO10153271	38.12	16	24	11.06	2	0	0	1.75	0	0.39	0.01	6.61	100	178	59	13.10	0.60	11	434
119.10	119.30	0.20	0968064	ALS Chemex	VO10153271	38.74	28	13	1.08	0	0	9	1.06	0	0.10	0.01	8.76	99	240	18	9.40	164.50	179	1090
130.00	130.19	0.19	0968065	ALS Chemex	VO10153271	57.20	14	13	2.65	0	0	4	0.76	0	0.06	-0.01	7.02	99	163	18	6.30	79.60	46	467
138.10	138.30	0.20	0968066	ALS Chemex	VO10153271	50.93	15	8	4.77	7	2	2	0.67	0	0.12	0.02	8.09	99	72	11	3.00	39.80	63	115
141.20	141.39	0.19	0968067	ALS Chemex	VO10153271	52.42	14	8	6.12	6	3	1	0.60	0	0.11	0.03	7.86	98	81	11	3.30	14.70	41	168
144.80	145.00	0.20	0968068	ALS Chemex	VO10153271	27.27	20	18	21.51	0	0	0	0.51	0	0.12	-0.01	10.35	98	401	108	23.60	0.40	64	476
156.00	156.10	0.10	0968069	ALS Chemex	VO10153271	60.50	13	8	4.08	4	2	1	0.68	0	0.09	0.01	4.83	98	183	70	17.20	28.80	17	86

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-33** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Sg
96.00	97.50	1.50	0967981	ALS Chemex	VO10151057	0.01	0.00	0.02	<0.01	0.20	3
97.50	98.70	1.20	0967982	ALS Chemex	VO10151057	0.07	0.04	1.00	0.04	9.40	3
98.70	99.60	0.90	0967983	ALS Chemex	VO10151057	0.06	0.69	2.42	0.09	22.30	4
99.60	100.50	0.90	0967984	ALS Chemex	VO10151057	0.04	0.23	17.95	0.19	20.80	4
100.50	101.70	1.20	0967985	ALS Chemex	VO10151057	0.00	0.01	0.07	0.03	0.20	3
108.80	109.80	1.00	0967986	ALS Chemex	VO10151057	0.00	0.01	0.09	0.03	4.50	3
109.80	111.20	1.40	0967987	ALS Chemex	VO10151057	0.59	0.07	4.40	0.07	9.40	4
111.20	112.40	1.20	0967988	ALS Chemex	VO10151057	0.62	0.07	4.92	0.11	83.60	4
112.40	113.60	1.20	0967989	ALS Chemex	VO10151057	0.52	0.06	11.65	0.07	53.00	4
113.60	114.40	0.80	0967990	ALS Chemex	VO10151057	0.06	0.08	8.76	0.07	24.90	4
114.40	115.30	0.90	0967991	ALS Chemex	VO10151057	0.27	0.04	8.91	0.07	11.20	4
115.30	116.70	1.40	0967992	ALS Chemex	VO10151057	0.27	0.03	3.43	0.08	9.50	4
116.70	118.10	1.40	0967993	ALS Chemex	VO10151057	0.21	0.04	3.32	0.06	12.80	4
118.10	119.60	1.50	0967994	ALS Chemex	VO10151057	0.02	0.01	0.28	<0.01	0.80	3
119.60	121.00	1.40	0967995	ALS Chemex	VO10151057	0.03	0.01	0.60	0.02	1.00	3
121.00	122.40	1.40	0967996	ALS Chemex	VO10151057	1.28	0.02	0.82	0.12	6.30	5
122.40	123.70	1.30	0967997	ALS Chemex	VO10151057	1.38	0.03	0.97	0.15	10.80	5
123.70	125.10	1.40	0967998	ALS Chemex	VO10151057	0.77	0.03	0.62	0.21	12.60	5
125.10	126.60	1.50	0967999	ALS Chemex	VO10151057	0.66	0.04	0.12	0.17	14.10	5
126.60	127.90	1.30	0968000	ALS Chemex	VO10151057	0.82	0.07	0.04	0.23	16.60	4
127.90	129.30	1.40	0968901	ALS Chemex	VO10151057	1.16	0.04	0.72	0.15	17.40	5
129.30	130.90	1.60	0968904	ALS Chemex	VO10151057	0.04	0.01	0.77	0.01	1.30	3
130.90	132.60	1.70	0968905	ALS Chemex	VO10151057	0.05	0.01	0.30	<0.01	0.40	3
132.60	134.00	1.40	0968906	ALS Chemex	VO10151057	0.59	0.01	0.04	0.03	2.40	3
134.00	135.30	1.30	0968907	ALS Chemex	VO10151057	0.27	0.00	0.06	0.01	0.90	3
135.30	136.80	1.50	0968908	ALS Chemex	VO10151057	0.50	0.00	0.04	0.01	0.50	3
136.80	138.00	1.20	0968909	ALS Chemex	VO10151057	0.01	0.00	0.03	<0.01	<0.20	3
138.00	138.90	0.90	0968910	ALS Chemex	VO10151057	0.01	<0.00	0.02	<0.01	<0.20	3
138.90	139.90	1.00	0968911	ALS Chemex	VO10151057	0.12	0.01	0.04	0.04	1.20	3
139.90	141.00	1.10	0968912	ALS Chemex	VO10151057	0.01	0.00	0.03	<0.01	<0.20	3

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-33** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
141.00	142.30	1.30	0968913	ALS Chemex	VO10151057	0.01	<0.00	0.03	<0.01	<0.20	3
142.30	143.70	1.40	0968914	ALS Chemex	VO10151057	0.07	0.00	0.05	0.01	0.40	3
143.70	145.40	1.70	0968915	ALS Chemex	VO10151057	0.01	0.00	0.06	<0.01	0.30	3
145.40	146.80	1.40	0968916	ALS Chemex	VO10151057	0.02	<0.00	0.02	<0.01	<0.20	3
146.80	147.60	0.80	0968917	ALS Chemex	VO10151057	0.01	0.00	0.03	<0.01	<0.20	3
147.60	148.80	1.20	0968918	ALS Chemex	VO10151057	0.35	0.00	0.05	0.03	3.20	3
148.80	149.50	0.70	0968919	ALS Chemex	VO10151057	0.05	0.01	0.05	0.03	1.30	3
149.50	150.50	1.00	0968920	ALS Chemex	VO10151057	0.02	<0.00	0.03	<0.01	<0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-34** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Drilling

Azimuth:	193.524
Dip:	-49.308
Length:	165
Started:	07-oct-10
Completed:	08-oct-10
Logged:	07-oct-10

Casing

Length:	33.2
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Core Shack
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	
Contractor:	Forages Rouillier
Spotted by:	
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: Declination is -13.8°, see PD1-10-30.

Coordinate - Gemcom

East:	-18347.07
North:	17191.74
Elev.:	3008.2

Coordinate - UTM

East:	273799.23		
North:	5516810.2		
Elev.:	3008.2		
Zone:	18	**NAD:**	NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	193.52	-49.31	N	✔	
48.00	193.10	-49.30	F	✔	5665
78.00	194.40	-48.90	F	✔	5623
108.00	194.90	-48.40	F	✔	5650_196.3
138.00	204.50	-48.10	F		5786

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-34** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	33.20	**TUB** ***Casing***									
33.20	113.30	**I3A** ***Chlorite Basalt or Diabase***									

I called this basalt in the other holes, but this looks more intrusive. Green, 0.75 mm, 40% alb/anorth, 30% ep/ser, 30% chl. Quartz-ser veins. Grain size goes down to maybe 0.4 mm; variation is on a 7.5 m scale.

110.8--113.3: green ser-ep-filled breccia. The intact material looks amygdular-- if this matches this unit I'd say it's volcanic, if it matches the next I'd say it's intrusive.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
33.20 - 110.80	Chl ND	Extrait par algorithme

Minor Interval:

110.80	113.30	V3B	*Chlorite Basalt Breccia*

113.30	118.40	**V2J** ***Chlorite Leucoxene Andesite***	0968921	117.30	118.40	1.10	0.00	0.00	0.02	<0.01	0.20

Gray, massive. Grain size is 0.1--0.5 mm. quartz veins 0.25--1 cm 1 every 3-4 cm.

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-34** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
118.40	119.30	**SM** ***Massive sulfides*** 90% pyrite, tr-1% cpy, rest is quartz.	0968922	118.40	119.30	0.90	0.03	0.06	0.01	0.10	16.60
119.30	120.80	**V2J** ***Chlorite Amygular Andesite*** Gray, f.g., quartz-filled amygdules up to 10% up to 3 mm. Some bands of chlorite 2.4 cm. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 119.30 - 120.80 Chl L Extrait par algorithme	0968923	119.30	120.80	1.50	0.01	0.00	0.03	0.01	0.40
120.80	123.30	**T** ***Tuffite*** Roughly banded at 40-60° almost brecciated black chlorite (andesitic tuff or andesite?) and silica. Pyrite, sphalerite in trace amounts associated with the silica. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 120.80 - 123.30 Chl L Extrait par algorithme	0968924	120.80	122.20	1.40	0.01	0.01	0.03	<0.01	2.50
			0968925	122.20	123.30	1.10	0.01	0.01	0.03	<0.01	2.50

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-34** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
123.30	125.40	**V2J** ***Silica-flooded chlorite andesite***	0968926	123.30	124.30	1.00	0.01	0.02	0.05	<0.01	0.60
		gray amygdular andesite as above, with blocky and patchy zones of cloudy white to reddish silica/chert. Over all maybe 10% silica. Trace py/po in the silica.	0968927	124.30	125.60	1.30	0.03	0.10	0.18	0.03	33.80
125.40	127.20	**SM** ***Massive sulfides***	0968928	125.60	126.10	0.50	0.89	0.07	5.20	0.11	85.20
		80% py, 10% sph, rest is quartz.	0968929	126.10	127.20	1.10	0.74	0.06	9.16	0.06	37.30
		126.0--126.1: black chlorite andesite with chert flooding.									
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		126.00 - 126.10 Sil ND									
		126.00 - 126.10 Chl ND Extrait par algorithme									
		Minor Interval:									
		126.00 126.10 V2J *Silica-flooded Chlorite Andesite*									
127.20	128.60	**T** ***Tuffite***	0968930	127.20	128.60	1.40	0.03	0.01	2.52	0.01	4.20
		banded quartz, andesitic tuff, and py/sph. 10% sulfides, trace sph.									

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-34** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
128.60	129.60	**SM** ***Massive sulfides*** 90% massive py, rest is chlorite, quartz ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 128.60 - 129.60 Chl ND Extrait par algorithme	0968931	128.60	129.60	1.00	0.79	0.01	2.46	0.04	17.00
129.60	130.70	**T** ***Tuffite*** fine-grained glassy tuff banded with ~10% py, tr sph and some quartz, but not that much.	0968932	129.60	130.70	1.10	0.01	0.01	0.16	0.08	0.80
130.70	141.80	**SM** ***Massive sulfides*** 90% py, 2-5% cpy, 2-5% po (mostly at the end)	0968933	130.70	132.00	1.30	0.18	0.02	1.42	0.04	6.30
			0968934	132.00	133.50	1.50	0.22	0.01	2.01	0.04	4.50
			0968937	133.50	135.00	1.50	0.27	0.02	5.58	0.08	9.80
			0968938	135.00	136.50	1.50	0.39	0.01	0.79	0.07	7.20
			0968939	136.50	138.00	1.50	0.49	0.01	1.74	0.15	17.60
			0968940	138.00	139.50	1.50	0.89	0.01	0.42	0.10	9.70
			0968941	139.50	141.00	1.50	1.53	0.01	0.16	0.11	13.00
			0968942	141.00	141.80	0.80	0.80	0.01	0.16	0.11	12.90

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-34** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
141.80	145.50	**Pipe** ***Pipe alteration zone***	0968943	141.80	143.30	1.50	0.07	0.01	0.16	0.03	2.10
		In some places recognizable amygdular andesite or basalt, but by and large soft black chlorite, quartz, ~10% py, trace cpy.	0968944	143.30	144.00	0.70	0.29	0.01	0.06	0.07	3.10
			0968945	144.00	145.50	1.50	0.12	0.01	0.12	0.01	<0.20
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		141.80 - 145.50 Chl ND Extrait par algorithme									
145.50	165.00	**V2J** ***Chlorite Andesite***	0968946	145.50	146.80	1.30	0.01	0.00	0.11	<0.01	<0.20
		Gray and massive. Portions, most notably from 156.3--162.0 of chlorite, with silica flooding, some pyrite. This may be an interleaved basalt, but I think it's patchy hydrothermal alteration.									
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		156.30 - 162.00 Chl ND Extrait par algorithme									

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-34** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
42.00	42.10	0.10	0968071	ALS Chemex	VO10153271	51.27	14	13	6.60	8	3	0	0.95	0	0.17	0.03	2.26	100	61	18	2.90	5.30	87	64
72.00	72.10	0.10	0968072	ALS Chemex	VO10153271	48.36	15	13	7.40	8	3	0	0.87	0	0.20	0.04	2.89	99	48	16	2.30	8.00	142	76
102.00	102.09	0.09	0968073	ALS Chemex	VO10153271	48.12	13	12	7.00	11	2	0	0.82	0	0.18	0.04	5.68	100	54	17	2.50	2.00	93	64
111.30	111.40	0.10	0968074	ALS Chemex	VO10153271	52.82	15	14	5.21	3	4	0	1.43	0	0.19	0.01	4.22	100	121	32	6.00	0.70	22	272
117.00	117.09	0.09	0968075	ALS Chemex	VO10153271	52.29	15	9	5.47	5	2	2	0.79	0	0.12	0.02	6.57	99	111	15	5.00	46.70	37	158
120.60	120.80	0.20	0968076	ALS Chemex	VO10153271	51.45	14	13	5.71	4	2	0	1.08	0	0.12	0.01	5.71	99	237	78	19.20	11.50	48	253
123.70	123.90	0.20	0968077	ALS Chemex	VO10153271	45.53	12	16	7.51	7	0	0	1.22	0	0.26	0.01	7.19	98	108	28	5.30	8.40	87	361
128.20	128.39	0.19	0968078	ALS Chemex	VO10153271	68.63	10	9	0.45	0	0	3	0.37	0	0.02	0.01	5.72	98	83	8	3.30	67.10	358	7970
144.30	144.50	0.20	0968079	ALS Chemex	VO10153271	52.16	12	21	7.71	0	0	0	0.37	0	0.21	-0.01	5.15	99	315	73	18.50	0.40	10	374
147.60	147.69	0.09	0968080	ALS Chemex	VO10153271	65.02	9	7	2.10	6	3	0	0.78	0	0.12	-0.01	5.77	98	227	93	23.50	6.00	22	90
160.40	160.50	0.10	0968081	ALS Chemex	VO10153271	52.02	12	15	9.66	2	0	0	0.67	0	0.12	-0.01	6.86	98	227	52	13.80	0.40	614	208

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-34** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Sg
117.30	118.40	1.10	0968921	ALS Chemex	VO10153019	0.00	0.00	0.02	<0.01	0.20	3
118.40	119.30	0.90	0968922	ALS Chemex	VO10153019	0.03	0.06	0.01	0.10	16.60	4
119.30	120.80	1.50	0968923	ALS Chemex	VO10153019	0.01	0.00	0.03	0.01	0.40	3
120.80	122.20	1.40	0968924	ALS Chemex	VO10153019	0.01	0.01	0.03	<0.01	2.50	3
122.20	123.30	1.10	0968925	ALS Chemex	VO10153019	0.01	0.01	0.03	<0.01	2.50	3
123.30	124.30	1.00	0968926	ALS Chemex	VO10153019	0.01	0.02	0.05	<0.01	0.60	3
124.30	125.60	1.30	0968927	ALS Chemex	VO10153019	0.03	0.10	0.18	0.03	33.80	3
125.60	126.10	0.50	0968928	ALS Chemex	VO10153019	0.89	0.07	5.20	0.11	85.20	4
126.10	127.20	1.10	0968929	ALS Chemex	VO10153019	0.74	0.06	9.16	0.06	37.30	4
127.20	128.60	1.40	0968930	ALS Chemex	VO10153019	0.03	0.01	2.52	0.01	4.20	3
128.60	129.60	1.00	0968931	ALS Chemex	VO10153019	0.79	0.01	2.46	0.04	17.00	5
129.60	130.70	1.10	0968932	ALS Chemex	VO10153019	0.01	0.01	0.16	0.08	0.80	3
130.70	132.00	1.30	0968933	ALS Chemex	VO10153019	0.18	0.02	1.42	0.04	6.30	5
132.00	133.50	1.50	0968934	ALS Chemex	VO10153019	0.22	0.01	2.01	0.04	4.50	5
133.50	135.00	1.50	0968937	ALS Chemex	VO10153019	0.27	0.02	5.58	0.08	9.80	5
135.00	136.50	1.50	0968938	ALS Chemex	VO10153019	0.39	0.01	0.79	0.07	7.20	5
136.50	138.00	1.50	0968939	ALS Chemex	VO10153019	0.49	0.01	1.74	0.15	17.60	5
138.00	139.50	1.50	0968940	ALS Chemex	VO10153019	0.89	0.01	0.42	0.10	9.70	4
139.50	141.00	1.50	0968941	ALS Chemex	VO10153019	1.53	0.01	0.16	0.11	13.00	4
141.00	141.80	0.80	0968942	ALS Chemex	VO10153019	0.80	0.01	0.16	0.11	12.90	4
141.80	143.30	1.50	0968943	ALS Chemex	VO10153019	0.07	0.01	0.16	0.03	2.10	3
143.30	144.00	0.70	0968944	ALS Chemex	VO10153019	0.29	0.01	0.06	0.07	3.10	3
144.00	145.50	1.50	0968945	ALS Chemex	VO10153019	0.12	0.01	0.12	0.01	<0.20	3
145.50	146.80	1.30	0968946	ALS Chemex	VO10153019	0.01	0.00	0.11	<0.01	<0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-35** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Drilling

Azimuth:	196.823
Dip:	-58.433
Length:	102
Started:	08-oct-10
Completed:	12-oct-10
Logged:	12-oct-10

Casing

Length:	32.1
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Core Shack
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	
Contractor:	Forages Rouillier
Spotted by:	
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: Declination is -13.8°, see PD1-10-30.

Coordinate - Gemcom

East:	-18441.61
North:	17176.94
Elev.:	3007.95

Coordinate - UTM

East:	273704.22		
North:	5516798.8		
Elev.:	3007.95		
Zone:	18	**NAD:**	NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	196.82	-58.43	C	✔	
45.00	196.90	-56.70	F	✔	5682
75.00	191.40	-56.70	F		5786
102.00	197.30	-55.90	F	✔	5703_203.2

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-35** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology		Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	32.10	**TUB**	***Casing***									
32.10	50.70	**I3A**	***Chlorite Basalt or Diabase***	0968947	49.50	50.70	1.20	0.01	0.00	0.05	<0.01	<0.20
		Massive, grading into agglomerate at 46.8 m. Short (< 10 cm) fine-grained portions.										
50.70	55.80	**T**	***Tuffite***	0968948	50.70	51.90	1.20	0.00	0.01	0.19	0.01	0.60
		0-10% pyrite, po.		0968949	51.90	52.50	0.60	0.02	0.01	0.47	0.01	1.90
				0968950	52.50	54.00	1.50	0.01	0.02	1.54	0.03	5.80
				0968951	54.00	54.70	0.70	0.01	0.16	0.35	0.01	0.60
				0968952	54.70	55.80	1.10	0.02	0.05	0.99	0.01	0.70

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-35** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
55.80	61.90	**SM** ***Massive sulfides***	0968953	55.80	57.00	1.20	2.12	0.19	0.65	0.12	33.30
		8% sph, trace-2% cpy, 90% py. Most of the cpy is a splash at the beginning, but there's some disseminated.	0968954	57.00	57.80	0.80	0.54	0.43	2.43	0.09	19.60
			0968955	57.80	59.30	1.50	0.13	0.22	17.10	0.03	17.00
			0968956	59.30	60.70	1.40	0.18	0.14	10.25	<0.01	22.20
			0968957	60.70	61.90	1.20	0.12	0.14	9.64	0.03	11.60
61.90	65.70	**V2J** ***Chlorite Andesite***	0968958	61.90	63.00	1.10	0.01	0.06	0.26	<0.01	0.50
		Gray, massive. May be diorite, but has tr-1% py/po in chlorite for 0.5-1 m at each contact.	0968959	63.00	64.40	1.40	0.01	0.05	0.14	<0.01	0.20
			0968960	64.40	65.70	1.30	0.18	0.26	0.42	0.08	18.50
65.70	69.90	**SM** ***Massive sulfides***	0968961	65.70	66.40	0.70	1.22	0.13	2.39	0.14	50.70
		8-10% sph, 1-2% cpy, 85% py. Some quartz breccia towards the end.	0968962	66.40	67.20	0.80	0.37	0.02	13.80	0.10	14.80
			0968963	67.20	68.50	1.30	1.67	0.04	4.40	0.18	30.40
			0968964	68.50	69.90	1.40	1.69	0.07	1.45	0.12	33.50
69.90	76.50	**Pipe** ***Pipe alteration zone***	0968965	69.90	71.00	1.10	0.01	0.01	0.10	0.01	0.80
		Soft black chlorite. 1% py, maybe.	0968968	75.50	76.50	1.00	0.07	0.00	0.31	<0.01	1.20
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		69.90 - 76.50 Chl ND Extrait par algorithme									

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-35** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
76.50	90.80	**SM** ***Massive sulfides***	0968969	76.50	78.00	1.50	0.19	0.02	0.92	0.05	9.30
		18% sph in concentrated bands, 3-5% cpy disseminated, 70% py, rest is quartz or tuffite material.	0968970	78.00	79.00	1.00	0.33	0.07	0.33	0.07	8.80
			0968971	79.00	80.10	1.10	0.37	0.06	1.23	0.05	5.60
			0968972	80.10	81.30	1.20	0.52	0.03	7.32	0.06	9.20
			0968973	81.30	82.60	1.30	0.34	0.01	0.32	0.10	17.10
			0968974	82.60	84.00	1.40	0.02	0.02	1.59	0.19	17.20
			0968975	84.00	85.30	1.30	0.07	0.03	3.37	0.11	14.60
			0968976	85.30	85.90	0.60	1.10	0.06	0.74	0.12	16.90
			0968977	85.90	87.00	1.10	0.14	0.05	0.26	0.08	18.50
			0968978	87.00	87.80	0.80	0.10	0.02	7.68	0.06	12.20
			0968979	87.80	88.80	1.00	0.13	0.01	12.15	0.08	12.00
			0968980	88.80	89.90	1.10	0.33	0.01	0.16	0.13	15.70
			0968981	89.90	90.80	0.90	0.20	0.01	0.05	0.14	18.90
90.80	102.00	**V2J** ***Chlorite Leucoxene Andesite***	0968982	90.80	91.80	1.00	0.01	0.00	0.06	0.01	0.20
		Gray, homogeneous except for a few chlorite hydrothermal veins ± py.									
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		90.80 - 102.00 Chl S Extrait par algorithme									

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-35** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
38.90	39.00	0.10	0968082	ALS Chemex	VO10163529	48.00	16	13	7.32	6	3	0	1.00	0	0.20	0.04	3.70	98	73	22	3.00	2.00	100	93
47.40	47.50	0.10	0968083	ALS Chemex	VO10163529	46.73	19	9	6.41	5	6	0	0.58	0	0.14	0.02	5.24	98	39	11	2.00	9.00	139	82
55.30	55.50	0.20	0968084	ALS Chemex	VO10163529	49.69	14	20	6.58	1	0	1	1.40	0	0.14	0.01	5.32	98	154	73	11.00	221.00	24	1530
62.70	63.00	0.30	0968085	ALS Chemex	VO10163529	52.59	13	16	6.84	1	0	1	1.31	0	0.17	0.01	6.26	99	105	39	6.00	443.00	149	2630
72.00	72.10	0.10	0968086	ALS Chemex	VO10163529	54.49	12	18	6.82	0	0	0	0.59	0	0.47	0.01	4.92	98	118	10	4.00	2.00	10	367
96.00	96.10	0.10	0968087	ALS Chemex	VO10163529	51.77	15	8	4.89	7	3	1	0.77	0	0.13	0.01	7.93	99	102	15	4.00	26.00	22	150

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-35** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Sg
49.50	50.70	1.20	0968947	ALS Chemex	VO10153270	0.01	0.00	0.05	<0.01	<0.20	3
50.70	51.90	1.20	0968948	ALS Chemex	VO10153270	0.00	0.01	0.19	0.01	0.60	3
51.90	52.50	0.60	0968949	ALS Chemex	VO10153270	0.02	0.01	0.47	0.01	1.90	3
52.50	54.00	1.50	0968950	ALS Chemex	VO10153270	0.01	0.02	1.54	0.03	5.80	3
54.00	54.70	0.70	0968951	ALS Chemex	VO10153270	0.01	0.16	0.35	0.01	0.60	3
54.70	55.80	1.10	0968952	ALS Chemex	VO10153270	0.02	0.05	0.99	0.01	0.70	3
55.80	57.00	1.20	0968953	ALS Chemex	VO10153270	2.12	0.19	0.65	0.12	33.30	5
57.00	57.80	0.80	0968954	ALS Chemex	VO10153270	0.54	0.43	2.43	0.09	19.60	5
57.80	59.30	1.50	0968955	ALS Chemex	VO10153270	0.13	0.22	17.10	0.03	17.00	5
59.30	60.70	1.40	0968956	ALS Chemex	VO10153270	0.18	0.14	10.25	<0.01	22.20	5
60.70	61.90	1.20	0968957	ALS Chemex	VO10153270	0.12	0.14	9.64	0.03	11.60	4
61.90	63.00	1.10	0968958	ALS Chemex	VO10153270	0.01	0.06	0.26	<0.01	0.50	3
63.00	64.40	1.40	0968959	ALS Chemex	VO10153270	0.01	0.05	0.14	<0.01	0.20	3
64.40	65.70	1.30	0968960	ALS Chemex	VO10153270	0.18	0.26	0.42	0.08	18.50	3
65.70	66.40	0.70	0968961	ALS Chemex	VO10153270	1.22	0.13	2.39	0.14	50.70	4
66.40	67.20	0.80	0968962	ALS Chemex	VO10153270	0.37	0.02	13.80	0.10	14.80	4
67.20	68.50	1.30	0968963	ALS Chemex	VO10153270	1.67	0.04	4.40	0.18	30.40	4
68.50	69.90	1.40	0968964	ALS Chemex	VO10153270	1.69	0.07	1.45	0.12	33.50	4
69.90	71.00	1.10	0968965	ALS Chemex	VO10153270	0.01	0.01	0.10	0.01	0.80	3
75.50	76.50	1.00	0968968	ALS Chemex	VO10153270	0.07	0.00	0.31	<0.01	1.20	3
76.50	78.00	1.50	0968969	ALS Chemex	VO10153270	0.19	0.02	0.92	0.05	9.30	4
78.00	79.00	1.00	0968970	ALS Chemex	VO10153270	0.33	0.07	0.33	0.07	8.80	4
79.00	80.10	1.10	0968971	ALS Chemex	VO10153270	0.37	0.06	1.23	0.05	5.60	4
80.10	81.30	1.20	0968972	ALS Chemex	VO10153270	0.52	0.03	7.32	0.06	9.20	4
81.30	82.60	1.30	0968973	ALS Chemex	VO10153270	0.34	0.01	0.32	0.10	17.10	4
82.60	84.00	1.40	0968974	ALS Chemex	VO10153270	0.02	0.02	1.59	0.19	17.20	4
84.00	85.30	1.30	0968975	ALS Chemex	VO10153270	0.07	0.03	3.37	0.11	14.60	4
85.30	85.90	0.60	0968976	ALS Chemex	VO10153270	1.10	0.06	0.74	0.12	16.90	5
85.90	87.00	1.10	0968977	ALS Chemex	VO10153270	0.14	0.05	0.26	0.08	18.50	5
87.00	87.80	0.80	0968978	ALS Chemex	VO10153270	0.10	0.02	7.68	0.06	12.20	5

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-35** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
87.80	88.80	1.00	0968979	ALS Chemex	VO10153270	0.13	0.01	12.15	0.08	12.00	5
88.80	89.90	1.10	0968980	ALS Chemex	VO10153270	0.33	0.01	0.16	0.13	15.70	5
89.90	90.80	0.90	0968981	ALS Chemex	VO10153270	0.20	0.01	0.05	0.14	18.90	4
90.80	91.80	1.00	0968982	ALS Chemex	VO10153270	0.01	0.00	0.06	0.01	0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-36** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Drilling

Azimuth:	200.784
Dip:	-55.881
Length:	111
Started:	12-oct-10
Completed:	13-oct-10
Logged:	12-oct-10

Casing

Length:	0
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Core Shack
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	
Contractor:	Forages Rouillier
Spotted by:	
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: Declination is -13.8°, see PD1-10-30.

Coordinate - Gemcom

East:	-18387.33
North:	17157.16
Elev.:	3007.91

Coordinate - UTM

East:	273757.75		
North:	5516777.09		
Elev.:	3007.91		
Zone:	18	**NAD:**	NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	200.78	-55.88	N	✔	
33.00	200.70	-54.60	F	✔	5616_202.5
69.00	200.90	-55.90	F	✔	5694_202.9
105.00	210.20	-55.40	F		5767

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-36** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	19.90	**TUB** ***Casing***									
19.90	58.90	**I3A** ***Chlorite Basalt or Diabase***									
		green, grain size 0.3 mm. Lower contact is roughly banded epidote/sericite, maybe a clay mineral, with cubes of pyrite. So, inconclusive.									
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		19.90 - 58.90 Ser L									
		19.90 - 58.90 Epi L Extrait par algorithme									
58.90	68.00	**V2J** ***Amygdular Andesite***	0968983	67.00	68.00	1.00	0.00	0.01	0.06	<0.01	<0.20
		Gray, fine-grained. What could be amygdules are intermittent "fuzzy" ~2 mm plag/quartz infilling.									

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-36** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology
68.00	100.40	**SM** ***Massive sulfides***
		Overall is 3% spy, 2% cpy, broken in zones as shown.
		68.0--78.0 10-12% sph in rough banding, 2% cpy, 80% py
		78.0--83.2 5% cpy with chlorite in jointing/breccia, disseminated, in 90% py
		83.2--85.4 MSS 60% py-mt banded in blue quartz breccia or tuffite
		85.4--86.2 90% py, 2% cpy
		86.2--87.6 80% py-mt banded in bue quartz tuffite/breccia
		87.6--89.2 chlorite andesite or diorite, pyrite grades in on both contacts
		89.2--92.7 75% py, 2-3% sph, 2-3% cpy
		92.7--95.0 black chlorite pipe, 25% py, 1% cpy
		95.0--97.9 90% py, 5% cpy
		97.9--98.7 SMS 40% quartz, 60% py/po, tr cpy
		98.7--100.4 80% py, 3-5% cpy, rest is black chlorite

Alteration Maj:	*Type/Style/Intensity*		*Comment*
78.00 - 83.20	Chl	ND	Extrait par algorithme
87.60 - 89.20	Chl	ND	Extrait par algorithme
92.70 - 95.00	Chl	ND	Extrait par algorithme
98.70 - 100.40	Chl	ND	Extrait par algorithme

Minor Interval:			
83.20	85.40	SMS	*Semi-massive sulfides*
Minor Interval:			
87.60	89.20	V2J	*Chlorite Andesite or Diorite*
Minor Interval:			
92.70	95.00	PIPE	*Pipe alteration zone*
Minor Interval:			
97.90	98.70	SMS	*Semi-massive sulfides*

Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0968984	68.00	69.00	1.00	0.35	0.08	7.62	0.05	12.30
0968985	69.00	70.00	1.00	0.44	0.05	14.00	<0.01	11.30
0968986	70.00	71.00	1.00	0.07	0.05	11.85	0.04	5.10
0968987	71.00	72.00	1.00	0.35	0.05	6.69	0.07	8.60
0968988	72.00	73.10	1.10	0.38	0.23	12.35	0.07	9.10
0968989	73.10	74.00	0.90	0.47	0.21	8.77	0.07	8.40
0968990	74.00	75.30	1.30	0.25	0.06	5.42	0.08	20.20
0968991	75.30	76.30	1.00	0.45	0.03	5.43	0.07	22.10
0968992	76.30	77.30	1.00	0.68	0.02	6.23	0.04	14.60
0968993	77.30	78.00	0.70	0.28	0.02	5.24	0.03	10.90
0968994	78.00	79.00	1.00	0.27	0.03	1.24	0.12	17.30
0968995	79.00	80.00	1.00	1.60	0.08	0.41	0.18	20.00
0968996	80.00	81.00	1.00	1.55	0.07	0.20	0.17	15.40
0968997	81.00	82.10	1.10	0.49	0.04	0.35	0.11	12.30
0968998	82.10	83.20	1.10	0.68	0.03	1.55	0.07	8.80
0969401	83.20	84.00	0.80	0.59	0.07	1.08	0.06	6.50
0969402	84.00	85.40	1.40	1.37	0.04	1.83	0.10	9.30
0969403	85.40	86.20	0.80	0.62	0.04	1.98	0.15	13.10
0969404	86.20	87.60	1.40	1.09	0.07	2.98	0.15	20.10
0969405	87.60	89.20	1.60	0.02	0.00	0.21	0.01	<0.20
0969406	89.20	89.80	0.60	0.02	0.01	1.13	0.01	0.70
0969407	89.80	91.10	1.30	0.36	0.02	2.77	0.06	4.90
0969408	91.10	92.10	1.00	0.58	0.04	1.41	0.06	9.50
0969409	92.10	92.70	0.60	0.53	0.02	0.44	0.05	6.00
0969410	92.70	93.80	1.10	0.15	0.01	0.43	0.02	1.50
0969411	93.80	95.00	1.20	0.08	0.01	0.08	0.02	1.10

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-36** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
			0969412	95.00	96.20	1.20	0.60	0.01	0.15	0.06	5.90
			0969413	96.20	97.90	1.70	0.85	0.01	0.63	0.05	5.70
			0969414	97.90	98.70	0.80	0.21	0.00	0.24	0.05	5.30
			0969415	98.70	100.40	1.70	0.48	0.01	0.05	0.06	5.50
100.40	101.90	**Pipe** ***Pipe alteration zone***	0969416	100.40	100.90	0.50	0.34	0.01	0.05	0.04	2.40
		25% py overall, mostly in the first half. Possibly trace cpy. Basically from the last portion of the massive sulfide to 100.9 it grades smoothly. This contact is where the pyrite is less than 50%.	0969417	100.90	101.90	1.00	0.15	0.00	0.06	0.01	0.90
101.90	104.50	**V2J** ***Andesite***	0969418	101.90	103.30	1.40	0.03	0.00	0.02	<0.01	<0.20
		Gray, fine-grained. Silica addition, or possibly a diorite?	0969419	103.30	104.50	1.20	0.01	0.00	0.02	<0.01	<0.20
104.50	106.70	**Pipe** ***Pipe alteration zone***	0969420	104.50	105.90	1.40	0.25	0.00	0.22	0.03	1.20
		5-10% py, trace cpy	0969421	105.90	106.70	0.80	0.02	0.01	0.05	0.06	2.10

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-36** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
106.70	111.00	**V2J** ***Leucoxene Amygdular Andesite*** as in the other holes.	0969422	106.70	107.30	0.60	0.03	0.00	0.03	0.01	<0.20

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-36** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
30.00	30.10	0.10	0968088	ALS Chemex	VO10163529	45.43	18	13	6.55	8	2	0	1.14	0	0.19	0.04	4.21	100	82	25	3.00	7.00	74	84
47.90	48.00	0.10	0968089	ALS Chemex	VO10163529	46.09	14	11	6.91	10	3	0	0.81	0	0.18	0.04	6.42	98	54	18	3.00	3.00	100	70
63.00	63.10	0.10	0968090	ALS Chemex	VO10163529	62.48	14	8	2.54	3	5	1	0.72	0	0.08	-0.01	2.80	99	247	69	16.00	18.00	19	104
88.30	88.50	0.20	0968091	ALS Chemex	VO10163529	44.25	11	25	8.47	0	0	0	0.55	0	0.26	0.01	8.51	98	127	8	4.00	2.00	25	363
94.30	94.50	0.20	0968092	ALS Chemex	VO10163529	26.65	20	22	18.43	0	0	0	1.19	0	0.23	0.01	9.54	98	267	12	7.00	-2.00	25	452
102.00	102.19	0.19	0968093	ALS Chemex	VO10163529	53.75	17	8	4.54	4	2	2	0.88	0	0.10	0.01	5.61	98	86	22	3.00	56.00	182	145
106.30	106.40	0.10	0968094	ALS Chemex	VO10163529	28.05	18	24	16.37	1	0	0	0.55	0	0.14	0.01	9.58	98	481	105	22.00	5.00	27	524
107.90	108.00	0.10	0968095	ALS Chemex	VO10163529	66.09	11	8	2.44	3	3	0	0.94	0	0.08	-0.01	3.60	98	297	141	28.00	-2.00	9	76

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-36** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Sg
67.00	68.00	1.00	0968983	ALS Chemex	VO10154544	0.00	0.01	0.06	<0.01	<0.20	3
68.00	69.00	1.00	0968984	ALS Chemex	VO10154544	0.35	0.08	7.62	0.05	12.30	4
69.00	70.00	1.00	0968985	ALS Chemex	VO10154544	0.44	0.05	14.00	<0.01	11.30	4
70.00	71.00	1.00	0968986	ALS Chemex	VO10154544	0.07	0.05	11.85	0.04	5.10	5
71.00	72.00	1.00	0968987	ALS Chemex	VO10154544	0.35	0.05	6.69	0.07	8.60	5
72.00	73.10	1.10	0968988	ALS Chemex	VO10154544	0.38	0.23	12.35	0.07	9.10	4
73.10	74.00	0.90	0968989	ALS Chemex	VO10154544	0.47	0.21	8.77	0.07	8.40	4
74.00	75.30	1.30	0968990	ALS Chemex	VO10154544	0.25	0.06	5.42	0.08	20.20	4
75.30	76.30	1.00	0968991	ALS Chemex	VO10154544	0.45	0.03	5.43	0.07	22.10	5
76.30	77.30	1.00	0968992	ALS Chemex	VO10154544	0.68	0.02	6.23	0.04	14.60	4
77.30	78.00	0.70	0968993	ALS Chemex	VO10154544	0.28	0.02	5.24	0.03	10.90	4
78.00	79.00	1.00	0968994	ALS Chemex	VO10154544	0.27	0.03	1.24	0.12	17.30	5
79.00	80.00	1.00	0968995	ALS Chemex	VO10154544	1.60	0.08	0.41	0.18	20.00	5
80.00	81.00	1.00	0968996	ALS Chemex	VO10154544	1.55	0.07	0.20	0.17	15.40	5
81.00	82.10	1.10	0968997	ALS Chemex	VO10154544	0.49	0.04	0.35	0.11	12.30	5
82.10	83.20	1.10	0968998	ALS Chemex	VO10154544	0.68	0.03	1.55	0.07	8.80	4
83.20	84.00	0.80	0969401	ALS Chemex	VO10154544	0.59	0.07	1.08	0.06	6.50	4
84.00	85.40	1.40	0969402	ALS Chemex	VO10154544	1.37	0.04	1.83	0.10	9.30	4
85.40	86.20	0.80	0969403	ALS Chemex	VO10154544	0.62	0.04	1.98	0.15	13.10	5
86.20	87.60	1.40	0969404	ALS Chemex	VO10154544	1.09	0.07	2.98	0.15	20.10	4
87.60	89.20	1.60	0969405	ALS Chemex	VO10154544	0.02	0.00	0.21	0.01	<0.20	3
89.20	89.80	0.60	0969406	ALS Chemex	VO10154544	0.02	0.01	1.13	0.01	0.70	4
89.80	91.10	1.30	0969407	ALS Chemex	VO10154544	0.36	0.02	2.77	0.06	4.90	5
91.10	92.10	1.00	0969408	ALS Chemex	VO10154544	0.58	0.04	1.41	0.06	9.50	4
92.10	92.70	0.60	0969409	ALS Chemex	VO10154544	0.53	0.02	0.44	0.05	6.00	4
92.70	93.80	1.10	0969410	ALS Chemex	VO10154544	0.15	0.01	0.43	0.02	1.50	3
93.80	95.00	1.20	0969411	ALS Chemex	VO10154544	0.08	0.01	0.08	0.02	1.10	3
95.00	96.20	1.20	0969412	ALS Chemex	VO10154544	0.60	0.01	0.15	0.06	5.90	4
96.20	97.90	1.70	0969413	ALS Chemex	VO10154544	0.85	0.01	0.63	0.05	5.70	4
97.90	98.70	0.80	0969414	ALS Chemex	VO10154544	0.21	0.00	0.24	0.05	5.30	3

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-36** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
98.70	100.40	1.70	0969415	ALS Chemex	VO10154544	0.48	0.01	0.05	0.06	5.50	4
100.40	100.90	0.50	0969416	ALS Chemex	VO10154544	0.34	0.01	0.05	0.04	2.40	4
100.90	101.90	1.00	0969417	ALS Chemex	VO10154544	0.15	0.00	0.06	0.01	0.90	2
101.90	103.30	1.40	0969418	ALS Chemex	VO10154544	0.03	0.00	0.02	<0.01	<0.20	3
103.30	104.50	1.20	0969419	ALS Chemex	VO10154544	0.01	0.00	0.02	<0.01	<0.20	2
104.50	105.90	1.40	0969420	ALS Chemex	VO10154544	0.25	0.00	0.22	0.03	1.20	3
105.90	106.70	0.80	0969421	ALS Chemex	VO10154544	0.02	0.01	0.05	0.06	2.10	3
106.70	107.30	0.60	0969422	ALS Chemex	VO10154544	0.03	0.00	0.03	0.01	<0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-37** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Drilling

Azimuth:	200
Dip:	-55
Length:	111
Started:	13-oct-10
Completed:	14-oct-10
Logged:	13-oct-10

Casing

Length:	25
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Core Shack
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	Richard Nieminen
Contractor:	Forages Rouillier
Spotted by:	
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: Declination is -13.8°; see PD1-10-30.

Coordinate - Gemcom

East:	-18357.55
North:	17148.16
Elev.:	3007.8

Coordinate - UTM

East:	273787.19		
North:	5516767.02		
Elev.:	3007.8		
Zone:	18	**NAD:**	NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	200.00	-55.00	C	✔	
45.00	196.90	-54.00	F	✔	5604
75.00	195.20	-53.40	F	✔	5596
111.00	194.50	-54.60	F	✔	5554

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-37** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology		Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	25.00	**TUB**	***Casing***									
25.00	66.70	**I3A**	***Gabbro***									
		LEUCO GABBRO: massive, coarse to medium grained. Pat: Massive to agglomerate, some fine-grained darker portions. Looks generally more intrusive than in some of the other holes.										
66.70	70.90	**V2J**	***Chlorite Andesite***	0969423	69.90	70.90	1.00	0.01	0.01	0.04	0.01	0.20
		ANDESITE: some cherty silica alteration. Pat: Dark green, sometimes glassy with quartz flooding or breccia, sometimes soft and vuggy, i.e. heterogeneous hydrothermal alteration. There's one vein of py/po. Possibly originally a tuff, it's hard to tell.										

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-37** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology
70.90	103.80	**SM** ***Massive sulfides***
		70.9--76.9 80% py, 10% mt, 2-3% cpy, tr sph. Some quartz breccia.
		76.9--81.4 20% sph, 4% cpy, 75% py
		81.4--83.8 6% cpy, 90% py
		83.6--88.5 10% sph, 2% cpy, 85% py
		88.5--89.7 4% cpy, 95% py
		89.7--94.1 5% sph, 4% cpy, 4% mt, 85% py
		94.1--97.4 3% sph, 10% mt, 80% py, some quartz breccia (white quartz fragments 7-10%: 96.0--97.1m. RLN).
		97.4--98.2 25% chlorite, 60% py, 15% po/mt
		98.2--99.7 20% sph banded, 4% cpy dissem, 75% py
		99.7--100.3 tuffite, 40% py/po banded with black chloritized tuff, chert, broken core
		100.3--103.8 4-5% cpy, 70-80% py, 4-10% mt, 0-3% po
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***
		97.40 - 98.20 Chl ND Extrait par algorithme
		99.70 - 100.30 Chl L Extrait par algorithme
		Minor Interval:
		99.70 100.30 T *Tuffite*

Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0969424	70.90	72.10	1.20	1.47	0.09	1.13	0.14	186.00
0969425	72.10	73.20	1.10	1.34	0.06	3.18	0.08	44.30
0969426	73.20	74.50	1.30	0.80	0.03	1.43	0.09	28.80
0969427	74.50	75.30	0.80	0.22	0.03	3.73	0.05	5.90
0969428	75.30	76.80	1.50	0.61	0.04	2.49	0.05	6.50
0969429	76.80	78.00	1.20	0.52	0.04	6.83	0.04	6.70
0969430	78.00	79.50	1.50	0.24	0.03	11.00	0.03	5.40
0969433	79.50	80.50	1.00	0.08	0.03	7.62	0.03	14.00
0969434	80.50	81.40	0.90	0.06	0.02	7.34	0.02	8.10
0969435	81.40	82.70	1.30	0.11	0.03	0.24	0.06	17.30
0969436	82.70	83.80	1.10	0.21	0.05	0.42	0.05	24.70
0969437	83.80	84.90	1.10	0.59	0.06	8.15	0.09	24.10
0969438	84.90	86.10	1.20	0.85	0.03	7.68	0.44	20.60
0969439	86.10	87.50	1.40	0.28	0.02	11.45	0.17	26.60
0969440	87.50	88.50	1.00	0.99	0.02	3.79	0.43	62.80
0969441	88.50	89.70	1.20	0.83	0.02	0.52	0.29	50.00
0969442	89.70	90.70	1.00	0.54	0.01	2.49	0.06	63.70
0969443	90.70	92.10	1.40	1.10	0.01	2.23	0.55	77.10
0969444	92.10	93.00	0.90	0.84	0.01	3.88	0.08	11.50
0969445	93.00	94.10	1.10	0.83	0.01	2.45	0.12	17.40
0969446	94.10	94.80	0.70	0.60	0.01	3.19	0.12	11.20
0969447	94.80	96.00	1.20	1.08	0.02	1.86	0.05	9.50
0969448	96.00	97.40	1.40	0.57	0.01	0.67	0.06	9.40
0969449	97.40	98.20	0.80	0.71	0.02	1.36	0.13	12.80
0969450	98.20	99.70	1.50	0.43	0.01	5.67	0.16	13.70
0969451	99.70	100.30	0.60	0.11	0.01	0.70	0.04	2.00

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-37** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
			0969452	100.30	101.40	1.10	0.10	0.01	0.98	0.03	2.10
			0969453	101.40	102.50	1.10	1.56	0.02	0.55	0.17	24.90
			0969454	102.50	103.80	1.30	0.18	0.05	1.94	0.08	10.00
103.80	111.00	**V2J** ***Chlorite Leucoxene Andesite***	0969455	103.80	105.00	1.20	0.02	0.00	0.05	0.01	<0.20

ANDESITE: Massive (I2?).

Pat: Gray-green, f.g. Sphene/rutile is barely visible interstitial. Qtz-chl veins. Upper 20 cm is soft green chlorite.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
103.80 - 111.00	Chl ND	Extrait par algorithme

Structure Maj.:	*Type/Core Angle*	*Comment*
105.00 - 107.00	vei	White quartz tension veining (5%).

FULL ANALYTICAL REPORT
- Whole Rock -

Hole Number **PD1-10-37** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
26.90	27.00	0.10	0968096	ALS Chemex	VO10163529	49.67	14	12	6.38	11	2	0	0.88	0	0.18	0.03	2.79	99	65	19	3.00	2.00	15	50
42.00	42.10	0.10	0968097	ALS Chemex	VO10163529	47.94	15	11	5.78	10	3	0	0.96	0	0.17	0.02	4.94	99	61	18	3.00	3.00	90	56
60.00	60.10	0.10	0968098	ALS Chemex	VO10163529	47.84	14	11	6.50	10	3	0	0.80	0	0.16	0.04	8.03	100	50	16	2.00	-2.00	136	70
69.00	69.10	0.10	0968099	ALS Chemex	VO10163529	47.91	13	14	5.68	8	2	0	1.33	0	0.23	0.01	8.16	100	90	32	5.00	6.00	84	161
108.00	108.09	0.09	0968100	ALS Chemex	VO10163529	63.00	13	10	3.23	1	3	0	1.28	0	0.09	-0.01	3.14	99	386	201	38.00	6.00	8	93

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-37** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Sg
69.90	70.90	1.00	0969423	ALS Chemex	VO10156822	0.01	0.01	0.04	0.01	0.20	3
70.90	72.10	1.20	0969424	ALS Chemex	VO10156822	1.47	0.09	1.13	0.14	186.00	4
72.10	73.20	1.10	0969425	ALS Chemex	VO10156822	1.34	0.06	3.18	0.08	44.30	4
73.20	74.50	1.30	0969426	ALS Chemex	VO10156822	0.80	0.03	1.43	0.09	28.80	5
74.50	75.30	0.80	0969427	ALS Chemex	VO10156822	0.22	0.03	3.73	0.05	5.90	5
75.30	76.80	1.50	0969428	ALS Chemex	VO10156822	0.61	0.04	2.49	0.05	6.50	5
76.80	78.00	1.20	0969429	ALS Chemex	VO10156822	0.52	0.04	6.83	0.04	6.70	4
78.00	79.50	1.50	0969430	ALS Chemex	VO10156822	0.24	0.03	11.00	0.03	5.40	5
79.50	80.50	1.00	0969433	ALS Chemex	VO10156822	0.08	0.03	7.62	0.03	14.00	5
80.50	81.40	0.90	0969434	ALS Chemex	VO10156822	0.06	0.02	7.34	0.02	8.10	5
81.40	82.70	1.30	0969435	ALS Chemex	VO10156822	0.11	0.03	0.24	0.06	17.30	5
82.70	83.80	1.10	0969436	ALS Chemex	VO10156822	0.21	0.05	0.42	0.05	24.70	2
83.80	84.90	1.10	0969437	ALS Chemex	VO10156822	0.59	0.06	8.15	0.09	24.10	5
84.90	86.10	1.20	0969438	ALS Chemex	VO10156822	0.85	0.03	7.68	0.44	20.60	5
86.10	87.50	1.40	0969439	ALS Chemex	VO10156822	0.28	0.02	11.45	0.17	26.60	4
87.50	88.50	1.00	0969440	ALS Chemex	VO10156822	0.99	0.02	3.79	0.43	62.80	5
88.50	89.70	1.20	0969441	ALS Chemex	VO10156822	0.83	0.02	0.52	0.29	50.00	5
89.70	90.70	1.00	0969442	ALS Chemex	VO10156822	0.54	0.01	2.49	0.06	63.70	5
90.70	92.10	1.40	0969443	ALS Chemex	VO10156822	1.10	0.01	2.23	0.55	77.10	5
92.10	93.00	0.90	0969444	ALS Chemex	VO10156822	0.84	0.01	3.88	0.08	11.50	5
93.00	94.10	1.10	0969445	ALS Chemex	VO10156822	0.83	0.01	2.45	0.12	17.40	5
94.10	94.80	0.70	0969446	ALS Chemex	VO10156822	0.60	0.01	3.19	0.12	11.20	5
94.80	96.00	1.20	0969447	ALS Chemex	VO10156822	1.08	0.02	1.86	0.05	9.50	4
96.00	97.40	1.40	0969448	ALS Chemex	VO10156822	0.57	0.01	0.67	0.06	9.40	4
97.40	98.20	0.80	0969449	ALS Chemex	VO10156822	0.71	0.02	1.36	0.13	12.80	4
98.20	99.70	1.50	0969450	ALS Chemex	VO10156822	0.43	0.01	5.67	0.16	13.70	5
99.70	100.30	0.60	0969451	ALS Chemex	VO10156822	0.11	0.01	0.70	0.04	2.00	3
100.30	101.40	1.10	0969452	ALS Chemex	VO10156822	0.10	0.01	0.98	0.03	2.10	4
101.40	102.50	1.10	0969453	ALS Chemex	VO10156822	1.56	0.02	0.55	0.17	24.90	4
102.50	103.80	1.30	0969454	ALS Chemex	VO10156822	0.18	0.05	1.94	0.08	10.00	4

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-37** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
103.80	105.00	1.20	0969455	ALS Chemex	VO10156822	0.02	0.00	0.05	0.01	<0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-38** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Drilling

Azimuth:	195.541
Dip:	-64.887
Length:	63
Started:	14-oct-10
Completed:	14-oct-10
Logged:	13-oct-10

Casing

Length:	21.7
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Core Shack
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	Richard Nieminen
Contractor:	Forages Rouillier
Spotted by:	
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: Declination is -13.8°; see PD1-10-30.

Coordinate - Gemcom

East:	-18494.28
North:	17170
Elev.:	3008.23

Coordinate - UTM

East:	273651.33		
North:	5516793.76		
Elev.:	3008.23		
Zone:	18	**NAD:**	NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	195.54	-64.89	C	✔	
33.00	195.50	-64.80	F	✔	5708_199.9
63.00	195.80	-64.20	F	✔	5909_198.3

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-38** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology		Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	21.70	**TUB**	***Casing***									
21.70	33.00	**V2J**	***Andesite***	0969456	21.70	23.20	1.50	0.01	0.01	0.03	0.01	1.20
				0969457	23.20	24.50	1.30	0.06	0.02	0.01	0.06	3.80
				0969458	24.50	25.50	1.00	0.50	0.02	0.05	0.11	9.20
				0969459	25.50	27.00	1.50	0.02	0.00	0.03	<0.01	<0.20
				0969460	27.00	28.50	1.50	0.00	0.00	0.03	<0.01	0.30
				0969461	28.50	30.00	1.50	0.01	0.00	0.03	<0.01	0.70
				0969462	30.00	31.50	1.50	0.01	0.00	0.03	<0.01	<0.20
				0969463	31.50	33.00	1.50	0.01	0.00	0.05	<0.01	<0.20

ANDESITE FLOW BRECCIA: Silicified to cherty with some sericitizations.

Pat: Tuffite. Maybe better called tuff. ~10% pyrite finely banded in f.g. andesitic tuff and roughly banded with black chloritized andesite, 25% barren chloritized andesite, rest is tuff or f.g. flow material with quartz breccia.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
21.70 - 33.00	Sil L	
21.70 - 33.00	Ser L	
21.70 - 33.00	Chl L	Extrait par algorithme

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
21.70 - 25.50	Py SMS 30	

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-38** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
33.00	52.50	**SM** ***Massive sulfides***	0969464	33.00	34.50	1.50	0.02	0.01	0.61	0.03	1.50
		33.0-42.0 75% py, 10% po, tr-1% cpy. rest is black chlorite and magnetite 42.0--52.5 85% py, 5% po, 3-5% cpy	0969465	34.50	36.00	1.50	0.05	0.01	0.05	0.02	0.90
			0969466	36.00	37.50	1.50	0.06	0.01	0.04	0.01	0.60
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***	0969467	37.50	39.00	1.50	0.03	0.01	0.80	0.03	1.20
		33.00 - 42.00 Chl ND Extrait par algorithme	0969468	39.00	40.50	1.50	0.04	0.02	1.93	0.05	2.80
			0969469	40.50	42.00	1.50	0.19	0.04	1.47	0.06	4.80
			0969470	42.00	43.50	1.50	0.74	0.05	2.19	0.10	7.40
			0969471	43.50	43.80	0.30	0.04	0.00	0.09	0.05	<0.20
			0969472	43.80	45.00	1.20	1.73	0.05	0.14	0.14	20.60
			0969473	45.00	46.50	1.50	1.28	0.03	0.13	0.15	19.50
			0969474	46.50	48.00	1.50	3.08	0.01	0.15	0.13	12.10
			0969475	48.00	49.50	1.50	1.12	0.01	0.25	0.11	8.30
			0969476	49.50	51.00	1.50	1.24	0.01	0.07	0.13	9.80
			0969477	51.00	52.50	1.50	0.81	0.01	0.05	0.09	9.70
52.50	57.80	**SSM** ***Semi-massive sulfides***	0969478	52.50	54.00	1.50	0.80	0.01	0.04	0.07	5.20
		Pipe zone with stringer 50% py, 3% cpy, 0-25% mt.	0969479	54.00	55.50	1.50	0.24	0.01	0.03	0.04	2.70
			0969480	55.50	57.00	1.50	0.09	0.00	0.02	0.05	1.90
			0969481	57.00	57.80	0.80	0.77	0.01	0.04	0.05	2.10
57.80	63.00	**V2J** ***Chlorite Leucoxene Andesite***	0969482	57.80	58.50	0.70	0.07	0.00	0.03	<0.01	<0.20
		ANDESITE: Massive (I2?).									
		Pat: as the other holes. Some localized hydrothermal chlorite.									
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-38** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology			Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		57.80 - 63.00	Chl ND	Extrait par algorithme									
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***									
		60.20 - 60.30	Py STR 10										

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-38** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
23.80	24.00	0.20	J745500	ALS Chemex	VO10163529	64.72	9	14	0.60	0	0	3	0.24	0	0.01	0.01	7.81	99	244	60	11.00	78.00	43	37
26.80	27.00	0.20	J745501	ALS Chemex	VO10163529	43.14	16	20	11.45	0	0	0	0.74	0	0.12	0.01	6.92	99	342	65	17.00	2.00	32	243
32.00	32.20	0.20	J745502	ALS Chemex	VO10163529	47.85	12	15	6.45	8	0	1	1.33	0	0.28	0.01	6.15	98	92	39	5.00	27.00	97	270
43.50	43.70	0.20	J745503	ALS Chemex	VO10163529	31.67	16	16	16.08	6	0	0	1.16	1	0.22	0.10	10.40	99	262	30	7.00	-2.00	14	379
59.90	60.00	0.10	J745504	ALS Chemex	VO10163529	49.73	16	8	4.65	7	1	3	0.73	0	0.13	0.01	8.50	98	94	23	4.00	58.00	35	157

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-38** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
21.70	23.20	1.50	0969456	ALS Chemex	VO10158414	0.01	0.01	0.03	0.01	1.20	3
23.20	24.50	1.30	0969457	ALS Chemex	VO10158414	0.06	0.02	0.01	0.06	3.80	3
24.50	25.50	1.00	0969458	ALS Chemex	VO10158414	0.50	0.02	0.05	0.11	9.20	4
25.50	27.00	1.50	0969459	ALS Chemex	VO10158414	0.02	0.00	0.03	<0.01	<0.20	3
27.00	28.50	1.50	0969460	ALS Chemex	VO10158414	0.00	0.00	0.03	<0.01	0.30	3
28.50	30.00	1.50	0969461	ALS Chemex	VO10158414	0.01	0.00	0.03	<0.01	0.70	3
30.00	31.50	1.50	0969462	ALS Chemex	VO10158414	0.01	0.00	0.03	<0.01	<0.20	3
31.50	33.00	1.50	0969463	ALS Chemex	VO10158414	0.01	0.00	0.05	<0.01	<0.20	3
33.00	34.50	1.50	0969464	ALS Chemex	VO10158414	0.02	0.01	0.61	0.03	1.50	4
34.50	36.00	1.50	0969465	ALS Chemex	VO10158414	0.05	0.01	0.05	0.02	0.90	4
36.00	37.50	1.50	0969466	ALS Chemex	VO10158414	0.06	0.01	0.04	0.01	0.60	4
37.50	39.00	1.50	0969467	ALS Chemex	VO10158414	0.03	0.01	0.80	0.03	1.20	4
39.00	40.50	1.50	0969468	ALS Chemex	VO10158414	0.04	0.02	1.93	0.05	2.80	4
40.50	42.00	1.50	0969469	ALS Chemex	VO10158414	0.19	0.04	1.47	0.06	4.80	4
42.00	43.50	1.50	0969470	ALS Chemex	VO10158414	0.74	0.05	2.19	0.10	7.40	4
43.50	43.80	0.30	0969471	ALS Chemex	VO10158414	0.04	0.00	0.09	0.05	<0.20	3
43.80	45.00	1.20	0969472	ALS Chemex	VO10158414	1.73	0.05	0.14	0.14	20.60	5
45.00	46.50	1.50	0969473	ALS Chemex	VO10158414	1.28	0.03	0.13	0.15	19.50	5
46.50	48.00	1.50	0969474	ALS Chemex	VO10158414	3.08	0.01	0.15	0.13	12.10	5
48.00	49.50	1.50	0969475	ALS Chemex	VO10158414	1.12	0.01	0.25	0.11	8.30	5
49.50	51.00	1.50	0969476	ALS Chemex	VO10158414	1.24	0.01	0.07	0.13	9.80	5
51.00	52.50	1.50	0969477	ALS Chemex	VO10158414	0.81	0.01	0.05	0.09	9.70	5
52.50	54.00	1.50	0969478	ALS Chemex	VO10158414	0.80	0.01	0.04	0.07	5.20	4
54.00	55.50	1.50	0969479	ALS Chemex	VO10158414	0.24	0.01	0.03	0.04	2.70	4
55.50	57.00	1.50	0969480	ALS Chemex	VO10158414	0.09	0.00	0.02	0.05	1.90	3
57.00	57.80	0.80	0969481	ALS Chemex	VO10158414	0.77	0.01	0.04	0.05	2.10	3
57.80	58.50	0.70	0969482	ALS Chemex	VO10158414	0.07	0.00	0.03	<0.01	<0.20	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-39** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Drilling

Azimuth:	196.133
Dip:	-45.288
Length:	75
Started:	15-oct-10
Completed:	17-oct-10
Logged:	14-oct-10

Casing

Length:	21.6
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Core Shack
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	
Contractor:	Forages Rouillier
Spotted by:	
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: Declination is -13.8°; see PD1-10-30.

Coordinate - Gemcom

East:	-18423.45
North:	17144.21
Elev.:	3007.99

Coordinate - UTM

East:	273721.19		
North:	5516765.44		
Elev.:	3007.99		
Zone:	18	**NAD:**	NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	196.13	-45.29	N	✔	
39.00	196.10	-44.20	F	✔	5307_192
75.00	196.50	-44.20	F	✔	5308_204.5

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-39** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)		Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	21.60	**TUB**	***Casing***									
21.60	28.40	**V2J**	***Chlorite Andesite***	0969485	27.20	28.40	1.20	0.00	0.00	0.05	<0.01	<0.20
		qtz veins.										
28.40	41.30	**SM**	***Massive sulfides***	0969486	28.40	29.60	1.20	1.23	0.02	2.02	0.13	32.70
				0969487	29.60	30.80	1.20	1.91	0.02	0.20	0.08	40.50
				0969488	30.80	31.50	0.70	0.10	0.02	12.30	0.09	14.20
				0969489	31.50	32.60	1.10	0.11	0.03	5.39	0.09	6.00
				0969490	32.60	33.90	1.30	0.27	0.05	1.46	0.10	6.70
				0969491	33.90	35.40	1.50	0.47	0.06	3.12	0.16	8.20
				0969492	35.40	36.40	1.00	0.40	0.05	19.35	0.12	8.80
				0969493	36.40	37.20	0.80	0.35	0.03	13.90	0.12	11.70
				0969494	37.20	38.50	1.30	1.48	0.06	6.39	0.10	20.60
				0969495	38.50	39.70	1.20	0.81	0.05	12.75	0.08	20.90
				0969496	39.70	40.60	0.90	0.81	0.06	12.85	0.12	24.40
				0969497	40.60	41.30	0.70	0.65	0.04	8.60	0.11	28.30

28.4--28.8 banded 5% sph, tr cpy, 80% py, chert, tuffite
28.8--29.0 chlorite andesite
29.0--30.8 90% py/mt banded at 50°, tr-1% cpy
30.8--35.4 massive pyrite, 2-3% cpy dissem, tr sph vaguely associated with qtz-chl veins at 50°
35.4--41.3 25% sph, banded at 50-70° crossbedded, 2-3% cpy dissem, 65-70% py, some qtz breccia

Alteration Maj:	*Type/Style/Intensity*	*Comment*
28.80 - 29.00	Chl ND	Extrait par algorithme

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-39** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
41.30	43.50	**V2J** ***Andesite or Diorite***	0969498	41.30	42.50	1.20	0.01	0.00	0.12	<0.01	<0.20
		Contacts strongly chloritized, one brecciated pyrite vein.	0969499	42.50	43.50	1.00	0.76	0.00	1.10	0.01	1.50
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***									
		41.30 - 43.50 Chl ND Extrait par algorithme									
43.50	69.80	**SM** ***Massive sulfides***	0969500	43.50	44.80	1.30	2.48	0.15	1.77	0.24	35.30
		overall 2% sph, 1% cpy	0968851	44.80	45.70	0.90	1.09	0.03	2.91	0.16	16.50
		43.5--44.8 massive pyrite, 3-4% cpy in irregular stringers	0968852	45.70	46.90	1.20	1.34	0.02	3.03	0.12	13.00
		44.8--48.2 banded pyrite, mt, 10% sph, qtz breccia	0968853	46.90	48.20	1.30	2.48	0.08	2.05	0.19	26.30
		48.2--48.9 massive pyrite	0968854	48.20	48.90	0.70	1.65	0.02	0.11	0.22	19.70
		48.9--52.5 60% py, 30% mt, 1% cpy banded at 50°ish	0968855	48.90	49.90	1.00	1.10	0.01	0.09	0.08	9.70
		52.5--61.5 80% py, 10% mt associated with thick banded quartz veins, cpy in veins and disseminated 2% overall	0968856	49.90	51.00	1.10	1.10	0.02	0.13	0.07	7.10
		61.5--63.0 SMS 50% py/mt banded in chlorite pipe	0968859	51.00	52.50	1.50	1.46	0.02	0.09	0.13	15.40
		63.0--65.8 60% py, 15% mt, 2% cpy, qtz	0968860	52.50	54.00	1.50	0.49	0.02	0.05	0.09	8.10
		65.8--66.9 85% mt, 10% py, 5% qtz	0968861	54.00	55.50	1.50	0.69	0.01	0.05	0.08	4.80
		66.9--69.8 60% py, 15% mt, 1% cpy, qtz	0968862	55.50	57.00	1.50	0.33	0.01	0.11	0.09	5.10
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***	0968863	57.00	58.50	1.50	0.53	0.00	0.13	0.08	3.30
		61.50 - 63.00 Chl L Extrait par algorithme	0968864	58.50	60.00	1.50	0.45	0.01	0.42	0.06	1.30
			0968865	60.00	61.60	1.60	0.52	0.01	0.18	0.06	2.70
			0968866	61.60	63.00	1.40	0.27	0.02	0.03	0.06	7.20
		Minor Interval:	0968867	63.00	64.30	1.30	0.39	0.01	0.03	0.10	4.90
		61.50 63.00 SMS *Semi-massive sulfides*	0968868	64.30	65.80	1.50	0.26	0.01	0.04	0.11	7.90

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-39** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
			0968869	65.80	66.90	1.10	0.63	0.01	0.04	0.05	5.70
			0968870	66.90	68.30	1.40	0.58	0.02	0.04	0.14	9.00
			0968871	68.30	69.80	1.50	0.39	0.02	0.06	0.10	5.80
69.80	75.00	**V2J** ***Chlorite Andesite*** maybe some leucoxene minerals? 69.8--72.4 fault at 60ish degrees, vuggy, gravel and breccia with pyrite for 80 cm or so, followed by qtz breccia veins	0968872	69.80	70.50	0.70	0.07	0.04	0.59	0.02	56.50
			0968873	70.50	72.00	1.50	0.03	0.00	0.05	<0.01	3.40

Structure Maj.:	Type/Core Angle	Comment
69.80 - 72.40	fai 60	

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-39** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
26.80	26.90	0.10	J745505	ALS Chemex	VO10163529	63.83	14	7	2.28	3	3	2	0.66	0	0.13	-0.01	3.26	98	230	63	14.00	40.00	25	149
42.00	42.20	0.20	J745506	ALS Chemex	VO10163529	39.99	11	11	10.36	11	0	0	0.78	1	0.60	0.05	12.65	98	184	22	5.00	-2.00	9	413
61.80	62.00	0.20	J745507	ALS Chemex	VO10163529	27.00	17	27	16.28	1	0	0	0.08	1	0.11	0.01	9.12	98	18	366	-2.00	41.00	470	289
66.20	66.40	0.20	J745508	ALS Chemex	VO10163529	14.00	0	66	6.41	3	0	0	-0.01	0	0.22	0.02	8.20	98	-2	44	-2.00	37.00	7600	324
74.60	74.70	0.10	J745509	ALS Chemex	VO10163529	65.80	12	7	2.00	3	4	0	0.92	0	0.08	-0.01	3.39	98	334	152	32.00	4.00	48	93

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-39** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Sg
27.20	28.40	1.20	0969485	ALS Chemex	VO10159650	0.00	0.00	0.05	<0.01	<0.20	3
28.40	29.60	1.20	0969486	ALS Chemex	VO10159650	1.23	0.02	2.02	0.13	32.70	4
29.60	30.80	1.20	0969487	ALS Chemex	VO10159650	1.91	0.02	0.20	0.08	40.50	4
30.80	31.50	0.70	0969488	ALS Chemex	VO10159650	0.10	0.02	12.30	0.09	14.20	4
31.50	32.60	1.10	0969489	ALS Chemex	VO10159650	0.11	0.03	5.39	0.09	6.00	4
32.60	33.90	1.30	0969490	ALS Chemex	VO10159650	0.27	0.05	1.46	0.10	6.70	5
33.90	35.40	1.50	0969491	ALS Chemex	VO10159650	0.47	0.06	3.12	0.16	8.20	5
35.40	36.40	1.00	0969492	ALS Chemex	VO10159650	0.40	0.05	19.35	0.12	8.80	4
36.40	37.20	0.80	0969493	ALS Chemex	VO10159650	0.35	0.03	13.90	0.12	11.70	4
37.20	38.50	1.30	0969494	ALS Chemex	VO10159650	1.48	0.06	6.39	0.10	20.60	4
38.50	39.70	1.20	0969495	ALS Chemex	VO10159650	0.81	0.05	12.75	0.08	20.90	4
39.70	40.60	0.90	0969496	ALS Chemex	VO10159650	0.81	0.06	12.85	0.12	24.40	4
40.60	41.30	0.70	0969497	ALS Chemex	VO10159650	0.65	0.04	8.60	0.11	28.30	4
41.30	42.50	1.20	0969498	ALS Chemex	VO10159650	0.01	0.00	0.12	<0.01	<0.20	3
42.50	43.50	1.00	0969499	ALS Chemex	VO10159650	0.76	0.00	1.10	0.01	1.50	3
43.50	44.80	1.30	0969500	ALS Chemex	VO10159650	2.48	0.15	1.77	0.24	35.30	4
44.80	45.70	0.90	0968851	ALS Chemex	VO10159650	1.09	0.03	2.91	0.16	16.50	4
45.70	46.90	1.20	0968852	ALS Chemex	VO10159650	1.34	0.02	3.03	0.12	13.00	4
46.90	48.20	1.30	0968853	ALS Chemex	VO10159650	2.48	0.08	2.05	0.19	26.30	4
48.20	48.90	0.70	0968854	ALS Chemex	VO10159650	1.65	0.02	0.11	0.22	19.70	4
48.90	49.90	1.00	0968855	ALS Chemex	VO10159650	1.10	0.01	0.09	0.08	9.70	4
49.90	51.00	1.10	0968856	ALS Chemex	VO10159650	1.10	0.02	0.13	0.07	7.10	4
51.00	52.50	1.50	0968859	ALS Chemex	VO10159650	1.46	0.02	0.09	0.13	15.40	4
52.50	54.00	1.50	0968860	ALS Chemex	VO10159650	0.49	0.02	0.05	0.09	8.10	4
54.00	55.50	1.50	0968861	ALS Chemex	VO10159650	0.69	0.01	0.05	0.08	4.80	
55.50	57.00	1.50	0968862	ALS Chemex	VO10159650	0.33	0.01	0.11	0.09	5.10	
57.00	58.50	1.50	0968863	ALS Chemex	VO10159650	0.53	0.00	0.13	0.08	3.30	
58.50	60.00	1.50	0968864	ALS Chemex	VO10159650	0.45	0.01	0.42	0.06	1.30	
60.00	61.60	1.60	0968865	ALS Chemex	VO10159650	0.52	0.01	0.18	0.06	2.70	
61.60	63.00	1.40	0968866	ALS Chemex	VO10159650	0.27	0.02	0.03	0.06	7.20	

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-39** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Lab*	*Certificate #*	*Cu* (%)	*Pb* (%)	*Zn* (%)	*Au* (g/t)	*Ag* (g/t)	*Sg*
63.00	64.30	1.30	0968867	ALS Chemex	VO10159650	0.39	0.01	0.03	0.10	4.90	
64.30	65.80	1.50	0968868	ALS Chemex	VO10159650	0.26	0.01	0.04	0.11	7.90	
65.80	66.90	1.10	0968869	ALS Chemex	VO10159650	0.63	0.01	0.04	0.05	5.70	
66.90	68.30	1.40	0968870	ALS Chemex	VO10159650	0.58	0.02	0.04	0.14	9.00	
68.30	69.80	1.50	0968871	ALS Chemex	VO10159650	0.39	0.02	0.06	0.10	5.80	
69.80	70.50	0.70	0968872	ALS Chemex	VO10159650	0.07	0.04	0.59	0.02	56.50	
70.50	72.00	1.50	0968873	ALS Chemex	VO10159650	0.03	0.00	0.05	<0.01	3.40	

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-40** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Drilling

Azimuth:	193.858
Dip:	-44.7
Length:	66
Started:	30-déc-1899
Completed:	30-déc-1899
Logged:	14-oct-10

Casing

Length:	27.8
Pulled:	yes
Capped:	no
Cemented:	

Core

Dimension:	NQ
Storage:	Core Shack
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	
Contractor:	Forages Rouillier
Spotted by:	
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: Declination is -13.8°; see PD1-10-30.

Coordinate - Gemcom

East:	-18403.3
North:	17135.49
Elev.:	3007.66

Coordinate - UTM

East:	273741.01
North:	5516756
Elev.:	3007.66
Zone:	18
NAD:	NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	193.86	-44.70	C	✔	
39.00	194.00	-44.00	F	✔	5705
66.00	194.50	-43.70	F	✔	5476_189.5

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-40** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	27.80	**TUB** ***Casing***									
27.80	29.30	**V3B** ***Chlorite Basalt or Diabase*** green, massive, grain size 0.3 mm, quartz-chl vein breccia									
29.30	31.30	**V2J** ***Chlorite Andesite or silicified basalt*** Gray, core is broken so it's hard to tell, but silica flooding textures. Gets black chlorite pipe-ish towards the end.	0968874	30.00	31.30	1.30	0.00	0.01	0.09	0.02	<0.20

Alteration Maj:	*Type/Style/Intensity*	*Comment*
29.30 - 31.30	Chl ND	Extrait par algorithme

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-40** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology
31.30	42.70	**SM** ***Massive sulfides*** 31.3--35.4 5% sph, 1% cpy, 90% py, rest is black chlorite starts out banded grades to massive 35.4--36.0 25% sph, 70% py, black chl 36.0--37.2 95% py, vuggy texture 37.2--38.1 8% sph, 1% cpy, 30% py, 60% po 38.1--40.1 2% cpy, 1% sph, 40% py, 40% po, qtz-chl 40.1--40.9 15% sph, 2% cpy, 80% py banded at 50° 40.9--42.7 4% sph, 1-2% cpy, 50% py, 30% mt, black chlorite
		Alteration Maj: ***Type/Style/Intensity*** ***Comment*** 31.30 - 35.40 Chl L Extrait par algorithme 35.40 - 36.00 Chl ND Extrait par algorithme 40.90 - 42.70 Chl ND Extrait par algorithme
42.70	45.20	**V2J** ***Andesite or Diorite*** Gray, massive, chloritized ends. This has the same pyrite "vein" that I saw in another hole, although it's placement in the "dike" is different. Here, there's 10 cm of pipe, 10 cm of rough cubes of pyrite, and then the rest of the unit. In the other one, it was more in the middle.
		Alteration Maj: ***Type/Style/Intensity*** ***Comment*** 42.70 - 45.20 Chl ND Extrait par algorithme

Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0968875	31.30	32.20	0.90	0.05	0.29	3.22	0.10	74.10
0968876	32.20	33.00	0.80	0.06	0.11	4.47	0.03	14.50
0968877	33.00	34.10	1.10	0.62	0.13	3.47	0.04	7.80
0968878	34.10	35.40	1.30	0.64	0.09	4.66	0.06	7.00
0968879	35.40	36.00	0.60	0.44	0.10	13.40	0.05	19.10
0968880	36.00	37.20	1.20	0.73	0.08	1.50	0.10	46.40
0968881	37.20	38.10	0.90	0.79	0.09	6.58	0.17	64.70
0968882	38.10	39.00	0.90	1.62	0.11	0.59	0.14	76.20
0968883	39.00	40.10	1.10	1.81	0.06	1.84	0.21	52.90
0968884	40.10	40.90	0.80	0.75	0.02	5.99	0.15	25.80
0968885	40.90	41.90	1.00	0.72	0.03	2.34	0.15	21.10
0968886	41.90	42.70	0.80	0.42	0.01	1.63	0.08	18.30
0968887	42.70	44.20	1.50	0.05	0.00	0.34	0.01	1.90
0968888	44.20	45.20	1.00	0.01	<0.00	0.04	0.01	0.20

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-40** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
45.20	59.30	**SM** ***Massive sulfides***	0968889	45.20	46.40	1.20	1.82	0.07	4.53	0.19	11.90
		45.2--50.0 8% cpy, 4% sph, 40% py, 40% mt, qtz-chl strongly banded at 65° except top 80 cm or so of massive pyrite	0968890	46.40	47.70	1.30	2.34	0.04	4.87	0.12	11.90
		50.0--59.3 2% cpy in massive pyrite, some chlorite as breccia infilling?	0968891	47.70	48.70	1.00	1.13	0.05	2.89	0.09	17.30
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***	0968892	48.70	50.00	1.30	1.39	0.03	0.39	0.06	13.40
		50.00 - 59.30 Chl ND Extrait par algorithme	0968893	50.00	51.00	1.00	0.52	0.03	0.12	0.11	16.60
			0968894	51.00	52.50	1.50	0.87	0.01	0.08	0.15	12.00
			0968895	52.50	54.00	1.50	0.56	0.01	0.09	0.23	13.40
			0968896	54.00	55.50	1.50	0.65	0.01	0.33	0.09	17.10
			0968897	55.50	57.00	1.50	0.55	0.01	0.35	0.15	11.10
			0968898	57.00	58.50	1.50	1.91	0.01	0.77	0.17	14.30
			0968899	58.50	59.30	0.80	1.41	0.03	0.53	0.08	14.80
59.30	66.00	**V2J** ***Chlorite Leucoxene Andesite***	0968900	59.30	60.60	1.30	0.03	0.00	0.17	<0.01	0.40
		Dark gray, plagioclase has a gray-purple cast, which is why I think this was typically logged as a dacite.									

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-40** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
28.80	28.90	0.10	J745510	ALS Chemex	VO10163529	55.25	13	14	2.25	5	2	1	1.17	0	0.20	-0.01	4.67	98	235	69	11.00	15.00	26	156
29.90	30.00	0.10	J745511	ALS Chemex	VO10163529	49.21	15	14	7.90	2	0	2	1.46	0	0.26	0.01	5.81	99	128	37	5.00	78.00	9	423
43.40	43.60	0.20	J745512	ALS Chemex	VO10163529	40.37	12	12	12.14	9	0	0	0.87	1	0.32	0.05	11.30	100	195	20	5.00	2.00	31	195
62.90	63.00	0.10	J745513	ALS Chemex	VO10163529	64.73	11	8	2.57	3	4	0	1.02	0	0.08	-0.01	4.22	99	301	131	28.00	2.00	16	75

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-40** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Assay Report (part 1 of 0)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Sg
30.00	31.30	1.30	0968874	ALS Chemex	VO10160857	0.00	0.01	0.09	0.02	<0.20	3
31.30	32.20	0.90	0968875	ALS Chemex	VO10160857	0.05	0.29	3.22	0.10	74.10	4
32.20	33.00	0.80	0968876	ALS Chemex	VO10160857	0.06	0.11	4.47	0.03	14.50	4
33.00	34.10	1.10	0968877	ALS Chemex	VO10160857	0.62	0.13	3.47	0.04	7.80	5
34.10	35.40	1.30	0968878	ALS Chemex	VO10160857	0.64	0.09	4.66	0.06	7.00	5
35.40	36.00	0.60	0968879	ALS Chemex	VO10160857	0.44	0.10	13.40	0.05	19.10	4
36.00	37.20	1.20	0968880	ALS Chemex	VO10160857	0.73	0.08	1.50	0.10	46.40	4
37.20	38.10	0.90	0968881	ALS Chemex	VO10160857	0.79	0.09	6.58	0.17	64.70	4
38.10	39.00	0.90	0968882	ALS Chemex	VO10160857	1.62	0.11	0.59	0.14	76.20	4
39.00	40.10	1.10	0968883	ALS Chemex	VO10160857	1.81	0.06	1.84	0.21	52.90	4
40.10	40.90	0.80	0968884	ALS Chemex	VO10160857	0.75	0.02	5.99	0.15	25.80	4
40.90	41.90	1.00	0968885	ALS Chemex	VO10160857	0.72	0.03	2.34	0.15	21.10	4
41.90	42.70	0.80	0968886	ALS Chemex	VO10160857	0.42	0.01	1.63	0.08	18.30	4
42.70	44.20	1.50	0968887	ALS Chemex	VO10160857	0.05	0.00	0.34	0.01	1.90	3
44.20	45.20	1.00	0968888	ALS Chemex	VO10160857	0.01	<0.00	0.04	0.01	0.20	3
45.20	46.40	1.20	0968889	ALS Chemex	VO10160857	1.82	0.07	4.53	0.19	11.90	4
46.40	47.70	1.30	0968890	ALS Chemex	VO10160857	2.34	0.04	4.87	0.12	11.90	4
47.70	48.70	1.00	0968891	ALS Chemex	VO10160857	1.13	0.05	2.89	0.09	17.30	4
48.70	50.00	1.30	0968892	ALS Chemex	VO10160857	1.39	0.03	0.39	0.06	13.40	4
50.00	51.00	1.00	0968893	ALS Chemex	VO10160857	0.52	0.03	0.12	0.11	16.60	4
51.00	52.50	1.50	0968894	ALS Chemex	VO10160857	0.87	0.01	0.08	0.15	12.00	5
52.50	54.00	1.50	0968895	ALS Chemex	VO10160857	0.56	0.01	0.09	0.23	13.40	5
54.00	55.50	1.50	0968896	ALS Chemex	VO10160857	0.65	0.01	0.33	0.09	17.10	5
55.50	57.00	1.50	0968897	ALS Chemex	VO10160857	0.55	0.01	0.35	0.15	11.10	5
57.00	58.50	1.50	0968898	ALS Chemex	VO10160857	1.91	0.01	0.77	0.17	14.30	5
58.50	59.30	0.80	0968899	ALS Chemex	VO10160857	1.41	0.03	0.53	0.08	14.80	4
59.30	60.60	1.30	0968900	ALS Chemex	VO10160857	0.03	0.00	0.17	<0.01	0.40	3

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-41** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Drilling

Azimuth:	191.362
Dip:	-55.487
Length:	60
Started:	30-déc-1899
Completed:	30-déc-1899
Logged:	17-oct-10

Casing

Length:	33.8
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Core Shack
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	
Contractor:	Forages Rouillier
Spotted by:	
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: Declination is -13.8°; see PD1-10-30.

Coordinate - Gemcom

East:	-18360.36
North:	17096.91
Elev.:	3007.79

Coordinate - UTM

East:	273782.54
North:	5516715.91
Elev.:	3007.79
Zone:	18
NAD:	NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	191.36	-55.49	N	✔	
45.00	192.00	-53.90	F	✔	5694

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-41** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	33.80	**TUB** ***Casing***									
33.80	46.00	**V3B** ***Basalt or Diabase***									

Medium green, grain size 0.5-1 mm. Chloritized portion at 43.5 may be a contact, but may just be slight alteration.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
33.80 - 46.00	Chl ND	Extrait par algorithme

46.00	66.00	**Pipe** ***Pipe alteration zone***									

50% soft green or black talc-chlorite, 50% chlorite amygdular andesite or basalt. There's a bit of pyrite about 53 m, but no other sulfides. (That could be a contact?)

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-41** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
38.90	39.00	0.10	J745514	ALS Chemex	VO10163529	47.00	14	14	6.17	7	3	0	0.92	0	0.17	0.03	7.63	100	77	27	3.00	9.00	174	96
47.90	48.00	0.10	J745515	ALS Chemex	VO10163529	48.29	12	18	10.45	2	0	0	1.28	0	0.13	0.01	5.92	98	90	33	5.00	-2.00	72	153
56.90	57.00	0.10	J745516	ALS Chemex	VO10163529	53.63	11	18	8.11	2	0	0	0.67	0	0.12	0.01	4.97	98	102	11	4.00	-2.00	737	104

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-41** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

DRILL HOLE REPORT

Robin Adair

Hole Number **PD1-10-42** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Drilling

Azimuth:	202.086
Dip:	-54.406
Length:	66
Started:	19-oct-10
Completed:	19-oct-10
Logged:	20-oct-10

Casing

Length:	18
Pulled:	no
Capped:	yes
Cemented:	

Core

Dimension:	NQ
Storage:	Bell Allard Ra
Section:	
Hole Type	DD

Location

Township:	LA GAUCHETIERE
Claim No.:	4609131
NTS:	32 E/16
Hole:	SURFACE

Other

Logged by:	Patrick Carr
Relog by:	Richard Nieminen
Contractor:	Forages Rouillier
Spotted by:	Denis Thériault
Surveyed:	
Surveyed by:	
Geophysics:	
Geophysic Contractor:	
Left in hole:	
Making water:	
Multi shot survey:	

Comment: Declination is -13.8°; see PD1-10-30.

Coordinate - Gemcom

East:	-18518.4
North:	17184.2
Elev.:	3007.94

Coordinate - UTM

East:	273627.74
North:	5516808.82
Elev.:	3007.94
Zone: 18	**NAD:** NAD83

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	202.09	-54.41	C	✔	
30.00	202.10	-55.00	F	✔	5591_200.6
66.00	202.30	-54.40	F	✔	5638

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-42** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
0.00	18.00	**TUB** *Casing*									
18.00	50.20	**V1D** *Amygdular Andesite or Dacite*									

ANDESITE: Amygdules. Rusty seams at (47.45--49.20m).

Pat: Gray, massive. Grain size 0.5 mm. Qtz veins ± chl.

47.4--50.2: diorite, broken rusty contacts

Structure Maj.:	*Type/Core Angle*	*Comment*
23.00 - 23.70	vei	Quartz vein breccia, tension.

Minor Interval:

47.40	50.20	I2J	*Diorite*

50.20	66.00	**V2J** *Andesite*									

ANDESITE: Massive (I2?).

Pat: dark gray. Occasional hydrothermal alteration--green or darker gray, strongly chloritized, pyrite--in ~1 m portions.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
50.20 - 66.00	Chl ND	Extrait par algorithme

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
57.00 - 58.00	Py AMA 1	

LITHOLOGY REPORT
- Detailed -

Hole Number **PD1-10-42** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
		64.80 - 66.00 Cp STR 3									
		64.80 - 66.00 Py STR 7									

FULL ANALYTICAL REPORT

- Whole Rock -

Hole Number **PD1-10-42** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Whole Rock (part 1 of 1)

From (m)	To (m)	Length (m)	Sample #	Lab	Certificate #	Sio2 (%)	Al2o3 (%)	Fe2o3 (%)	Mgo (%)	Cao (%)	Na2o (%)	K2o (%)	Tio2 (%)	P2o5 (%)	Mno (%)	Cr2o3 (%)	Loi (%)	Total (%)	Zr (ppm)	Y (ppm)	Nb (ppm)	Rb (ppm)	Cu (ppm)	Zn (ppm)
21.00	21.10	0.10	J745517	ALS Chemex	VO10163529	63.08	14	7	3.16	2	3	1	0.70	0	0.06	-0.01	3.48	98	230	69	16.00	29.00	19	129
36.00	36.10	0.10	J745518	ALS Chemex	VO10163529	63.97	14	6	1.91	4	3	2	0.65	0	0.09	-0.01	4.44	99	222	60	13.00	34.00	31	97
48.00	48.10	0.10	J745519	ALS Chemex	VO10163529	52.75	15	8	5.42	5	3	1	0.75	0	0.12	0.01	7.61	99	101	21	4.00	25.00	60	201
57.00	57.10	0.10	J745520	ALS Chemex	VO10163529	49.69	15	14	3.41	5	5	0	1.27	0	0.15	0.01	5.01	98	124	43	7.00	-2.00	50	147
63.00	63.10	0.10	J745521	ALS Chemex	VO10163529	63.81	14	7	2.42	3	4	1	0.63	0	0.06	-0.01	3.34	98	220	59	14.00	13.00	27	111

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-42** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

xstrata zinc

FULL ANALYTICAL REPORT

- Assay -

Hole Number **PD1-10-42** Project: **PHELPS DODGE DEPOSIT** Project Number: **642**

Appendix VII: ANALYSIS CERTIFICATES

ALS Chemex
EXCELLENCE EN ANALYSE CHIMIQUE
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Téléphone: 604 984 0221 Télécopieur: 604 984 0218 www.alschemex.com

À: **XSTRATA ZINC CANADA EXPLORATION**
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Finalisée date: 21-MARS-2010
Compte: NORMAT

CERTIFICAT VO10020506

Projet: 641

Bon de commande #:

Ce rapport s'applique aux 21 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 23-FEVR-2010.

Les résultats sont transmis à:

PATRICK CARR	MICHEL DESSUREAULT	GILLES ROY

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
LOG-24	Entrée pulpe - Reçu sans code barre

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	
ME-MS61	ICP-MS 48 éléments, quatre acides	
Cu-AA45	Trace Cu-Digestion Aqua regia	AAS
Zn-AA45	Trace Zn - Aqua regia /AAS	AAS
ME-XRF06	Roche totale - XRF	XRF
OA-GRA06	Perte par calcination pour ME-XRF06	WST-SIM
ME-XRF05	Analyse XRF de degré trace	XRF
Zn-AA62	Teneur marchande Zn - quqtre acides / AAS	AAS

À: **XSTRATA ZINC CANADA EXPLORATION MATAGAMI**
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

EXCELLENCE EN ANALYSE CHIMIQUE

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Téléphone: 604 984 0221 Télécopieur: 604 984 0218 www.alschemex.com

À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: 641

Finalisée date: 21-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020506

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Cu-AA45 Cu ppm 1	Zn-AA45 Zn ppm 1	Zn-AA62 Zn % 0.001	ME-XRF06 SiO2 % 0.01	ME-XRF06 Al2O3 % 0.01	ME-XRF06 Fe2O3 % 0.01	ME-XRF06 MgO % 0.01	ME-XRF06 CaO % 0.01	ME-XRF06 Na2O % 0.01	ME-XRF06 K2O % 0.01	ME-XRF06 TiO2 % 0.01	ME-XRF06 P2O5 % 0.001	ME-XRF06 MnO % 0.01	ME-XRF05 Ba ppm 10
0968551		0.46	84	85		43.47	12.06	10.45	7.25	11.67	2.12	0.06	0.66	0.068	0.18	20
0968552		0.55	28	92		65.32	13.29	5.87	1.83	3.55	3.91	0.98	0.63	0.178	0.09	200
0968553		0.60	71	86		39.52	10.06	8.99	10.40	13.79	0.33	0.03	0.72	0.665	0.31	10
0968554		0.41	487	>10000	1.040	70.03	3.58	16.66	1.78	0.01	0.34	0.01	0.18	0.014	0.16	10
0968555		0.39	54	137		52.85	15.28	8.29	5.00	5.54	3.22	1.05	0.79	0.189	0.12	180
0968556		0.41	225	416		28.02	20.65	17.21	21.39	0.12	0.01	0.01	0.60	0.052	0.10	10
0968557		0.05	32	547		72.84	10.90	6.62	1.66	1.06	1.35	1.45	0.33	0.030	0.16	220
0968558		0.43	119	40		49.69	14.09	11.46	6.13	10.31	2.93	0.11	0.89	0.079	0.18	50
0968559		0.38	69	241		51.16	11.64	15.48	4.26	5.50	0.04	1.20	1.51	0.178	0.32	200
0968560		0.49	11	528		48.85	12.23	22.37	7.47	0.31	0.02	0.01	1.62	0.148	0.37	10
0968561		0.26	70	177		46.74	12.14	16.98	3.82	6.87	1.83	0.04	1.61	0.158	0.22	10
0968562		0.45	66	164		56.11	12.78	15.29	3.09	2.66	2.09	0.64	1.12	0.252	0.15	190
0968563		0.35	514	64		65.30	8.37	15.10	3.38	2.30	0.04	0.26	0.52	0.110	0.11	80
0968564		0.56	19	145		61.15	13.00	8.76	2.77	3.62	2.80	0.94	0.89	0.166	0.09	180
0968565		0.39	229	632		43.26	12.87	24.87	7.86	1.18	0.03	0.01	1.32	0.125	0.30	10
0968566		0.45	60	176		37.62	8.14	8.03	10.09	16.65	0.01	0.01	0.59	0.524	0.31	10
0968567		0.40	78	206		49.50	15.21	8.39	5.37	7.24	1.25	2.17	0.81	0.190	0.20	340
0968568		0.40	11	414		26.91	18.69	24.04	18.01	0.04	0.01	0.01	0.96	0.039	0.16	20
0968569		0.63	89	148		34.67	4.89	17.49	20.10	5.71	0.01	0.01	0.25	0.054	0.32	10
0968570		0.35	11	450		27.64	20.49	16.01	22.36	0.01	0.01	0.01	0.88	0.065	0.17	20
0968571		0.60	7	249		36.13	27.71	9.55	10.61	0.05	0.08	5.43	1.40	0.024	0.10	920

Commentaire: Sample with low total was rechecked

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

ALS Chemex
EXCELLENCE EN ANALYSE CHIMIQUE
ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: 641

Finalisée date: 21-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020506

Description échantillon	Méthode élément unités L.D.	ME-XRF05 Sr ppm 2	ME-XRF06 Cr2O3 % 0.01	ME-XRF06 LOI % 0.01	ME-XRF06 Total % 0.01	ME-XRF05 Zr ppm 2	ME-XRF05 Y ppm 2	ME-XRF05 Nb ppm 2	ME-XRF05 Rb ppm 2	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01
0968551		61	0.03	11.85	99.89	40	14	2	<2	0.03	6.59	0.8	20	0.29	0.03	7.81
0968552		67	0.01	3.17	98.85	216	57	13	26	0.05	6.47	3.0	160	1.02	0.06	2.37
0968553		422	0.07	13.25	98.19	181	18	5	6	0.07	5.46	3.4	10	0.85	0.30	9.08
0968554		2	0.01	6.06	98.83	38	5	2	6	0.89	1.81	69.4	<10	0.10	0.78	0.03
0968555		108	0.01	6.68	99.05	110	15	4	24	0.13	7.53	14.2	150	0.40	0.01	3.75
0968556		3	0.01	10.35	98.52	543	128	23	<2	0.02	4.86	<0.2	<10	0.47	2.92	0.08
0968557		47	0.01	2.94	99.38	618	159	24	26	0.01	5.37	<0.2	200	2.30	0.15	0.75
0968558		167	0.04	2.36	98.30	62	19	3	2	0.03	7.45	0.8	40	0.30	0.01	6.89
0968559		52	0.01	7.12	98.45	137	49	6	30	0.08	6.13	23.5	170	1.30	0.06	3.70
0968560		4	0.01	5.06	98.47	108	28	5	<2	<0.01	6.20	16.3	<10	0.26	<0.01	0.24
0968561		123	0.01	8.04	98.47	127	36	5	<2	<0.01	6.48	1.9	10	1.33	0.02	4.61
0968562		44	<0.01	4.12	98.33	273	111	14	14	<0.01	6.48	<0.2	130	2.01	0.08	1.77
0968563		30	0.01	4.07	99.57	76	11	3	8	0.46	4.36	0.8	60	0.22	0.25	1.60
0968564		59	0.01	4.11	98.32	258	114	22	23	0.14	6.86	14.0	160	1.78	0.02	2.56
0968565		6	0.02	6.69	98.54	95	33	6	24	1.68	6.95	51.5	<10	0.43	3.26	0.84
0968566		300	0.09	16.25	98.35	142	16	4	<2	0.06	4.53	40	<10	0.76	0.19	10.70
0968567		79	0.01	8.70	99.08	98	20	4	48	0.02	7.44	41.2	290	0.71	0.03	4.81
0968568		2	0.01	9.59	98.47	209	71	6	<2	0.14	8.76	7.2	<10	0.79	0.19	0.04
0968569		20	0.01	11.20	94.72	50	18	2	2	0.49	2.78	27.9	<10	0.23	7.19	3.91
0968570		<2	0.01	10.55	98.21	194	136	5	11	1.88	9.41	<0.2	<10	0.61	19.15	0.02
0968571		17	0.01	7.28	98.47	311	69	5	105	0.19	9.76	0.6	590	2.13	0.61	0.04

Commentaire: Sample with low total was rechecked

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: **XSTRATA ZINC CANADA EXPLORATION**
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: 641

Finalisée date: 21-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020506

Description échantillon	Méthode élément unités L.D.	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01
0968551		0.02	8.51	45.0	163	0.19	84.2	6.83	13.30	0.17	1.2	0.039	0.05	3.4	16.6	4.26
0968552		0.02	57.3	12.1	10	0.25	24.6	3.84	19.25	0.20	6.8	0.069	0.80	24.6	6.7	1.02
0968553		0.03	134.0	40.3	390	0.22	67.6	5.78	13.95	0.32	3.6	0.052	0.02	56.8	10.9	6.13
0968554		26.5	26.6	38.8	12	<0.05	531	10.80	39.9	0.24	1.3	8.43	0.01	11.3	0.5	0.98
0968555		0.07	22.5	26.5	64	0.38	51.8	5.49	17.30	0.18	3.1	0.091	0.86	9.4	16.8	2.88
0968556		0.12	181.5	34.1	<1	0.13	238	8.93	66.9	0.58	17.1	0.395	<0.01	75.3	61.4	10.10
0968557		1.48	105.0	1.3	58	0.22	29.5	4.40	28.7	0.29	14.3	0.586	1.14	42.2	11.1	0.91
0968558		0.04	11.55	41.7	235	0.09	115.0	7.50	17.85	0.20	1.4	0.060	0.09	4.6	6.1	3.60
0968559		0.11	23.4	36.6	7	0.39	63.7	9.85	20.4	0.25	3.0	0.120	1.00	9.0	11.9	2.44
0968560		0.56	19.55	28.0	10	0.07	5.0	14.40	22.1	0.33	3.6	0.085	<0.01	7.7	4.2	4.39
0968561		0.09	20.7	40.4	7	0.07	65.2	10.80	21.0	0.24	2.6	0.098	0.03	8.1	10.7	2.20
0968562		0.05	57.2	21.6	1	0.23	62.5	9.58	26.7	0.28	8.2	0.168	0.50	24.2	13.6	1.73
0968563		0.04	21.2	60.7	3	0.14	530	10.05	19.70	0.13	1.9	0.097	0.21	10.3	15.1	1.90
0968564		0.02	85.0	22.6	14	0.29	13.7	5.95	25.0	0.22	8.8	0.150	0.75	33.9	10.9	1.58
0968565		0.58	7.55	52.8	68	0.08	241	16.50	26.2	0.26	3.1	0.500	0.01	2.3	7.5	4.72
0968566		0.08	123.5	45.1	491	0.15	53.5	5.28	13.10	0.27	3.3	0.051	<0.01	50.4	5.1	6.09
0968567		0.04	20.6	33.7	67	0.62	67.7	5.38	19.00	0.12	2.7	0.156	1.69	8.3	20.8	2.98
0968568		<0.02	198.5	32.1	9	0.84	<0.2	14.90	61.6	0.67	5.8	0.574	0.01	89.2	3.7	9.97
0968569		0.14	22.9	56.2	3	0.05	88.7	11.45	26.2	0.25	1.6	0.484	<0.01	10.4	2.7	12.15
0968570		<0.02	366	55.6	27	0.52	2.0	9.94	50.3	1.19	5.6	0.174	<0.01	140.5	41.7	12.55
0968571		<0.02	45.2	24.3	5	1.00	0.7	5.42	29.0	0.16	7.8	0.183	3.41	19.9	31.9	4.90

Commentaire: Sample with low total was rechecked

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: 641

Finalisée date: 21-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020506

Description échantillon	Méthode élément unités L.D.	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2
0968551		1230	0.94	1.64	2.3	128.0	280	0.9	1.4	<0.002	0.09	0.34	25.4	1	0.5	67.9
0968552		574	0.99	2.81	13.6	15.8	800	8.9	25.3	<0.002	0.06	0.72	12.1	2	2.0	71.6
0968553		2160	0.77	0.26	5.8	184.5	3010	26.6	0.9	<0.002	0.44	1.19	23.0	1	0.8	473
0968554		1120	6.06	<0.01	1.7	8.5	30	24.8	0.2	<0.002	7.43	2.19	3.0	8	1.7	1.7
0968555		807	0.43	2.35	3.8	98.9	870	0.6	19.0	<0.002	0.04	0.16	17.4	1	0.8	115.5
0968556		637	23.9	<0.01	11.2	14.4	150	3.2	0.1	0.011	0.02	0.12	9.4	3	5.1	3.7
0968557		1140	1.82	0.94	20.1	1.6	70	3.7	27.3	<0.002	0.07	0.08	2.1	2	5.0	52.0
0968558		1240	0.35	2.22	2.8	63.6	340	1.8	1.3	<0.002	0.02	0.83	38.5	1	0.5	182.0
0968559		2260	0.87	0.02	4.3	15.6	770	2.4	31.0	<0.002	0.41	0.32	32.5	2	1.0	55.1
0968560		2640	0.50	<0.01	5.0	25.6	640	0.6	0.2	0.002	0.02	0.08	37.6	1	6.9	4.1
0968561		1520	0.41	1.39	4.2	23.0	700	1.1	0.9	<0.002	0.09	0.33	35.5	2	0.8	127.5
0968562		980	0.50	1.51	3.9	2.4	1080	1.5	14.8	<0.002	0.01	0.12	21.9	2	1.1	45.4
0968563		712	1.57	0.01	1.9	5.4	470	4.6	6.7	<0.002	0.12	0.10	11.0	4	2.3	32.2
0968564		614	0.81	2.06	24.8	16.1	760	3.1	27.2	0.002	0.06	1.03	21.1	4	4.4	66.9
0968565		2160	4.18	0.01	5.1	43.6	540	111.5	0.2	0.003	2.54	1.92	43.1	5	35.3	5.6
0968566		2280	0.65	0.01	4.8	242	2450	4.9	0.2	<0.002	0.20	0.48	24.9	1	3.3	353
0968567		1360	0.33	0.89	4.0	104.5	830	1.0	37.6	<0.002	0.01	0.53	18.8	1	2.4	84.9
0968568		1040	45.6	0.01	5.8	10.7	130	2.2	0.5	0.052	0.01	0.32	22.3	3	14.6	2.1
0968569		2300	0.95	0.01	1.9	3.8	210	9.4	0.2	<0.002	4.92	0.91	5.2	23	1.2	19.8
0968570		1190	4340	<0.01	3.2	21.2	190	44.8	0.4	1.875	0.33	2.85	31.2	73	16.1	1.7
0968571		651	234	0.08	3.6	7.2	60	2.6	39.4	0.402	0.03	0.62	20.2	3	26.9	13.4

Commentaire: Sample with low total was rechecked

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MATAGAMI QC J0Y 2A0

Finalisée date: 21-MARS-2010
Compte: NORMAT

Projet: 641

CERTIFICAT D'ANALYSE VO10020506

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
0968551		0.45	0.06	0.4	0.384	<0.02	0.1	166	0.3	14.0	89	39.2
0968552		1.20	0.27	3.4	0.368	0.47	0.7	71	0.4	52.1	89	199.0
0968553		0.39	0.08	5.7	0.423	<0.02	1.3	153	0.5	23.9	99	138.0
0968554		0.14	11.40	0.7	0.109	0.08	0.3	24	0.5	5.3	9640	49.7
0968555		0.32	0.21	1.0	0.359	0.37	0.2	114	0.6	12.7	143	112.5
0968556		1.10	3.62	4.7	0.115	<0.02	2.6	48	0.7	70.1	429	491
0968557		1.33	0.11	3.1	0.117	0.26	0.7	<1	0.5	60.0	531	>500
0968558		0.21	0.09	0.4	0.510	<0.02	0.1	224	0.1	17.9	75	42.9
0968559		0.34	0.45	0.9	0.585	0.70	0.2	227	0.4	18.4	238	104.0
0968560		0.37	0.34	0.8	0.880	<0.02	0.2	338	0.7	12.3	516	118.0
0968561		0.31	0.14	0.8	0.658	<0.02	0.2	302	0.4	21.5	170	88.0
0968562		0.35	0.17	2.5	0.204	0.11	0.6	38	0.2	51.1	150	246
0968563		0.14	2.78	1.0	0.198	0.06	0.2	102	0.2	10.1	60	77.7
0968564		1.69	0.06	4.2	0.524	0.52	1.1	102	0.4	114.0	140	267
0968565		0.35	7.00	0.8	0.663	0.14	0.2	302	0.5	33.4	617	108.0
0968566		0.27	0.14	4.8	0.353	<0.02	1.3	130	0.2	21.7	203	144.5
0968567		0.28	1.90	0.8	0.415	1.11	0.2	118	0.4	12.1	204	110.0
0968568		0.45	0.90	2.4	0.378	0.03	2.8	151	4.0	34.6	400	217
0968569		0.14	13.85	0.7	0.157	0.02	0.4	29	0.1	8.8	272	64.9
0968570		0.27	72.0	3.9	0.193	0.94	4.2	205	1.6	48.7	432	198.5
0968571		0.30	3.44	1.5	0.274	1.81	1.2	210	2.0	14.7	207	293

Commentaire: Sample with low total was rechecked

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À: **XSTRATA ZINC CANADA EXPLORATION**
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BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: 641

Finalisée date: 21-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020506

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	Interférence: Ca>10% interfère sur l'arsenic par ICP-MS. Les résutlats du ICP-AES sont reportés.
ME-MS61	Interférence: Mo>400 ppm interfère sur le cadmiun par ICP-MS. Les résutlats du ICP-AES sont reportés
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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Finalisée date: 26-MARS-2010
Compte: NORMAT

CERTIFICAT VO10024541

Projet: 641

Bon de commande #:

Ce rapport s'applique aux 18 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 4-MARS-2010.

Les résultats sont transmis à:

PATRICK CARR	MICHEL DESSUREAULT	GILLES ROY

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	
ME-MS61	ICP-MS 48 éléments, quatre acides	
Cu-AA45	Trace Cu-Digestion Aqua regia	AAS
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Zn-AA45	Trace Zn - Aqua regia /AAS	AAS
ME-XRF06	Roche totale - XRF	XRF
OA-GRA06	Perte par calcination pour ME-XRF06	WST-SIM
ME-XRF05	Analyse XRF de degré trace	XRF
Zn-AA62	Teneur marchande Zn - quqtre acides / AAS	AAS

À: **XSTRATA ZINC CANADA EXPLORATION MATAGAMI**
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Projet: 641

Finalisée date: 26-MARS-2010
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CERTIFICAT D'ANALYSE VO10024541

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Cu-AA45 Cu ppm 1	Zn-AA45 Zn ppm 1	Zn-AA62 Zn % 0.001	ME-XRF06 SiO2 % 0.01	ME-XRF06 Al2O3 % 0.01	ME-XRF06 Fe2O3 % 0.01	ME-XRF06 MgO % 0.01	ME-XRF06 CaO % 0.01	ME-XRF06 Na2O % 0.01	ME-XRF06 K2O % 0.01	ME-XRF06 TiO2 % 0.01	ME-XRF06 P2O5 % 0.001	ME-XRF06 MnO % 0.01	ME-XRF05 Ba ppm 10
0968603		0.52	61	169		48.51	12.92	18.17	2.71	5.30	2.45	0.27	1.73	0.211	0.17	80
0968604		0.51	36	156		48.00	11.84	16.16	5.40	6.76	1.51	0.02	1.52	0.148	0.23	<10
0968605		0.31	32	277		41.63	10.92	11.12	11.12	10.92	0.02	0.02	0.78	0.721	0.50	20
0968606		0.25	26	3480		25.94	14.43	17.38	18.30	7.87	0.11	0.01	0.02	5.721	0.09	30
0968607		0.44	9	68		65.24	11.39	7.92	2.41	3.65	3.88	0.07	0.94	0.204	0.09	40
0968608		0.37	19	171		62.89	13.63	9.47	3.15	2.43	3.71	0.37	0.91	0.233	0.10	80
0968609		0.18	96	>10000	1.280	70.61	6.84	11.63	1.13	0.03	0.47	1.57	0.26	0.018	0.09	390
0968610		0.26	55	181		39.23	11.16	9.42	10.52	13.60	0.03	0.42	0.79	0.709	0.37	90
0968611		0.68	10	590		31.51	18.32	21.95	17.67	0.07	<0.01	0.01	0.60	0.031	0.16	10
0968612		0.37	60	139		53.21	15.55	7.07	4.36	6.45	2.70	1.84	0.68	0.108	0.09	300
0968613		0.19	86	514		46.57	12.81	14.41	6.49	6.94	0.04	1.12	1.24	0.113	0.40	200
0968614		0.27	190	8030	0.733	64.22	9.95	14.11	1.12	0.10	0.31	2.60	0.39	0.056	0.10	510
0968615		0.17	46	229		38.56	10.15	10.11	11.38	13.02	<0.01	0.02	0.75	0.666	0.32	20
0968616		0.52	10	518		31.90	19.66	17.45	20.42	0.04	0.01	0.01	0.59	0.037	0.14	20
0968617		0.44	15	166		57.24	12.21	13.08	2.98	4.75	1.37	0.93	1.07	0.234	0.14	200
0968618		0.41	52	74		46.30	18.96	7.05	4.09	8.57	5.22	1.25	0.52	0.058	0.11	340
0968619		0.38	7	156		60.00	12.03	11.81	2.20	4.22	3.28	0.21	1.00	0.241	0.11	70
0968620		0.05	28	547		73.10	10.91	6.61	1.67	1.06	1.35	1.45	0.32	0.031	0.16	220

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Projet: 641

Finalisée date: 26-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10024541

Description échantillon	Méthode élément unités L.D.	ME-XRF05 Sr ppm 2	ME-XRF06 Cr2O3 % 0.01	ME-XRF06 LOI % 0.01	ME-XRF06 Total % 0.01	ME-XRF05 Zr ppm 2	ME-XRF05 Y ppm 2	ME-XRF05 Nb ppm 2	ME-XRF05 Rb ppm 2	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01
0968603		92	0.01	6.45	98.92	180	52	8	6	0.02	6.93	3.0	70	0.86	0.03	3.65
0968604		92	0.01	8.50	100.10	110	35	5	<2	0.02	6.47	<0.2	10	0.44	0.01	4.65
0968605		160	0.06	12.25	100.10	176	21	6	<2	<0.01	5.89	34.4	10	0.79	0.05	7.14
0968606		32	0.01	8.54	98.44	7	654	3	10	0.22	7.25	10.5	<10	0.65	1300	4.75
0968607		91	<0.01	4.00	99.81	311	140	30	<2	<0.01	5.86	0.5	40	4.87	0.35	2.49
0968608		71	0.01	2.82	99.74	261	113	22	9	<0.01	6.87	9.6	60	1.54	16.05	1.63
0968609		6	0.01	5.49	98.19	59	12	3	40	0.82	3.58	144.5	110	0.52	0.15	0.04
0968610		304	0.06	13.70	100.05	188	23	5	11	0.02	6.04	60.4	80	0.80	0.38	8.77
0968611		2	0.01	9.01	99.34	533	101	24	<2	0.01	8.24	0.5	<10	0.65	0.14	0.07
0968612		83	0.01	7.12	99.23	100	18	4	40	0.07	8.21	0.5	270	0.57	0.22	4.46
0968613		39	0.01	8.72	98.89	105	43	6	41	0.05	6.93	47.8	160	0.66	0.04	4.66
0968614		8	0.01	6.96	99.99	91	16	3	64	1.04	5.01	115.5	100	0.76	0.16	0.09
0968615		147	0.06	13.45	98.51	162	19	5	<2	0.01	5.63	25.2	<10	0.59	0.16	8.75
0968616		2	0.01	9.59	99.86	460	164	23	<2	0.01	8.44	5.9	<10	0.44	1.25	0.05
0968617		46	0.01	5.58	99.62	210	59	12	21	<0.01	6.50	0.9	160	0.66	0.02	3.29
0968618		128	0.02	6.98	99.18	43	20	2	31	0.05	9.46	3.2	300	0.73	0.06	5.91
0968619		96	<0.01	4.97	100.10	261	67	14	4	<0.01	6.40	0.7	50	0.93	0.01	2.94
0968620		46	0.01	2.93	99.63	613	160	24	27	<0.01	5.56	0.4	210	2.47	0.15	0.79

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Projet: 641

Finalisée date: 26-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10024541

Description échantillon	Méthode élément unités L.D.	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01
0968603		0.12	30.0	28.5	11	0.13	61.1	12.00	25.4	0.24	4.6	0.091	0.22	12.0	15.1	1.54
0968604		0.08	18.40	41.4	19	0.07	35.3	10.95	19.50	0.22	2.7	0.094	0.01	7.5	20.5	3.22
0968605		0.03	143.0	37.8	318	0.10	28.7	7.12	15.05	0.31	4.1	0.054	0.01	60.1	13.5	6.48
0968606		12.50	>500	30.5	11	0.29	24.3	10.15	50.2	2.39	0.8	0.942	<0.01	433	5.7	9.99
0968607		0.02	88.3	10.6	14	0.06	8.0	5.31	22.8	0.23	10.9	0.122	0.05	36.2	8.9	1.37
0968608		0.12	92.8	14.4	19	0.11	16.9	6.18	23.2	0.25	8.7	0.123	0.29	38.4	10.3	1.74
0968609		25.5	14.30	8.5	18	0.27	95.7	8.10	10.40	0.18	1.8	7.47	1.22	7.0	4.5	0.59
0968610		0.08	154.0	42.0	356	0.29	54.1	5.98	14.65	0.28	4.0	0.069	0.36	66.6	26.0	6.08
0968611		0.69	68.2	41.4	10	0.57	6.3	13.30	45.3	0.37	17.9	0.163	0.01	30.4	9.9	9.63
0968612		0.10	19.35	24.2	59	0.60	62.4	4.84	18.05	0.16	2.9	0.062	1.51	9.0	14.9	2.58
0968613		0.37	15.90	40.4	61	0.33	84.8	9.52	19.95	0.23	3.2	0.106	0.93	6.6	21.2	3.84
0968614		16.70	12.50	9.0	26	0.42	186.5	9.73	13.15	0.23	2.7	5.09	2.03	5.7	4.8	0.57
0968615		0.08	136.5	34.1	371	0.06	40.6	6.72	13.35	0.28	3.9	0.083	0.02	55.9	7.7	6.86
0968616		0.27	142.0	64.2	12	0.42	5.0	10.85	65.4	0.51	16.3	0.188	0.01	62.4	37.2	11.15
0968617		0.06	43.3	20.4	18	0.25	12.7	8.88	23.5	0.24	6.5	0.143	0.76	17.4	10.0	1.72
0968618		0.02	10.10	26.1	85	0.50	47.2	4.77	19.75	0.16	1.0	0.041	1.01	3.8	13.5	2.35
0968619		0.31	53.6	15.2	4	0.10	6.0	8.05	20.2	0.22	7.9	0.106	0.18	22.2	11.0	1.25
0968620		1.50	109.5	1.3	65	0.21	29.6	4.59	29.2	0.29	13.7	0.576	1.15	43.7	12.2	0.92

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: 641

Finalisée date: 26-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10024541

Description échantillon	Méthode élément unités L.D.	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2
0968603		1200	0.70	1.80	4.3	8.9	960	1.7	7.1	0.002	0.08	0.29	34.3	2	0.7	101.0
0968604		1630	0.29	1.12	3.7	23.0	680	1.1	0.4	0.002	0.02	0.19	37.1	2	0.9	108.0
0968605		3500	0.20	0.02	7.4	133.5	3280	1.8	0.5	0.002	0.02	0.29	22.2	2	5.8	192.5
0968606		534	32.0	0.01	0.5	28.9	>10000	14.4	0.2	0.028	0.18	5.74	26.4	22	6.6	37.4
0968607		601	0.35	2.72	20.6	2.9	950	2.0	1.8	0.002	0.02	0.18	18.9	3	2.6	102.0
0968608		631	1.27	2.55	23.8	14.7	1040	3.2	10.0	0.003	0.02	1.14	19.8	4	3.9	78.8
0968609		637	0.48	0.03	2.1	20.0	50	23.1	39.6	<0.002	6.55	3.85	6.5	5	42.5	4.4
0968610		2510	0.35	0.03	6.5	157.0	3260	7.3	13.0	0.002	0.09	0.36	23.1	2	3.1	371
0968611		1050	8.94	<0.01	14.0	3.5	100	1.5	0.3	0.004	0.03	0.17	14.7	2	5.5	2.2
0968612		604	0.45	2.01	3.7	96.7	500	0.9	42.7	<0.002	0.12	0.15	16.8	2	0.8	95.1
0968613		2810	0.60	0.02	5.3	38.1	500	72.4	31.7	0.002	0.25	0.72	38.4	3	3.3	43.1
0968614		680	0.52	0.04	2.3	24.4	240	31.7	56.3	<0.002	8.20	4.84	8.6	6	32.4	5.4
0968615		2310	0.15	0.01	5.9	161.5	3120	2.7	0.5	0.002	0.04	0.25	22.2	2	3.9	173.5
0968616		974	13.95	<0.01	11.6	6.3	100	1.6	0.3	0.011	0.02	0.13	12.2	3	3.6	2.5
0968617		994	0.51	1.00	9.7	7.4	1080	0.9	24.6	0.002	0.20	0.27	25.3	2	1.8	50.9
0968618		782	0.44	3.84	2.1	50.5	250	2.3	27.8	<0.002	0.02	0.71	22.4	2	0.4	146.0
0968619		778	0.69	2.38	13.0	1.7	1120	1.6	5.6	0.002	0.01	0.36	20.5	2	3.3	107.0
0968620		1180	1.57	0.94	20.3	1.7	80	3.6	30.4	0.003	0.07	0.11	2.5	3	5.1	52.5

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À: **XSTRATA ZINC CANADA EXPLORATION**
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MATAGAMI QC J0Y 2A0

Projet: 641

Finalisée date: 26-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10024541

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Zn-OG62 Zn % 0.001
0968603		0.31	<0.05	1.3	0.427	0.07	0.3	168	0.3	25.6	172	148.5	
0968604		0.26	0.05	0.7	0.533	<0.02	0.2	290	0.1	13.6	167	96.2	
0968605		0.36	0.09	6.4	0.444	<0.02	1.4	150	0.4	25.5	284	172.0	
0968606		0.13	>500	<0.2	0.018	0.03	14.5	286	1.5	168.5	3020	4.7	
0968607		1.48	0.35	4.8	0.338	0.02	1.0	40	0.3	83.4	99	302	
0968608		1.68	14.60	4.1	0.513	0.17	1.1	101	0.5	104.5	169	247	
0968609		0.14	0.77	0.9	0.125	0.99	0.2	43	0.3	6.2	>10000	62.9	1.245
0968610		0.36	0.42	6.8	0.442	0.17	1.4	157	0.3	25.8	180	169.5	
0968611		1.02	0.22	7.0	0.174	<0.02	1.7	18	0.8	59.6	648	>500	
0968612		0.29	0.77	1.5	0.375	0.74	0.3	124	0.3	12.3	149	105.5	
0968613		0.36	0.06	0.9	0.642	0.78	0.3	270	0.5	35.5	534	101.0	
0968614		0.18	0.69	1.2	0.164	1.68	0.3	63	0.5	7.7	7760	96.4	
0968615		0.33	0.14	6.0	0.433	<0.02	1.3	156	0.3	22.7	281	155.0	
0968616		0.84	1.32	6.4	0.142	<0.02	3.0	44	1.1	67.8	578	417	
0968617		0.70	0.09	2.2	0.451	0.31	0.5	70	0.4	35.7	168	204	
0968618		0.13	0.07	0.4	0.303	0.46	0.1	133	0.2	12.5	68	30.3	
0968619		0.97	<0.05	3.0	0.503	0.07	0.7	29	0.3	35.1	162	250	
0968620		1.32	0.05	3.3	0.121	0.28	0.7	<1	0.5	64.6	559	>500	

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À: **XSTRATA ZINC CANADA EXPLORATION**
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Finalisée date: 26-MARS-2010
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CERTIFICAT D'ANALYSE VO10024541

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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MATAGAMI QC J0Y 2A0

Finalisée date: 23-SEPT-2010
Cette copie a fait un rapport sur
24-SEPT-2010
Compte: NORMAT

CERTIFICAT VO10123726

Projet: 641

Bon de commande #:

Ce rapport s'applique aux 22 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 1-SEPT-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
ME-ICP06	Roche entière - ICP-AES	ICP-AES
OA-GRA05	Perte par calcination à 1 000 C	WST-SEQ
ME-MS81	Fusion 38 éléments ICP-MS	ICP-MS
TOT-ICP06		ICP-AES

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Finalisée date: 23-SEPT-2010
Compte: NORMAT

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CERTIFICAT D'ANALYSE VO10123726

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	ME-MS81 Ag ppm 1	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Co ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Cu ppm 5	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01
0968733		0.42	<1	24.2	8.0	52.9	240	0.13	69	2.29	1.56	0.52	14.6	2.09	1.5	0.52
0968734		0.53	10	1.3	12.1	25.9	20	0.05	916	3.14	2.02	0.66	16.0	2.81	3.0	0.68
0968735		0.47	<1	163.5	37.5	9.6	10	0.19	27	7.30	5.32	1.11	18.4	6.23	6.4	1.63
0968736		0.39	2	2.9	10.5	88.7	10	0.03	986	0.68	0.32	0.52	19.4	0.80	1.2	0.11
0968737		0.29	<1	148.5	664	28.2	10	0.76	16	181.0	84.8	23.3	24.2	173.5	5.0	33.2
0968738		0.24	<1	303	116.5	32.7	120	0.68	250	15.15	8.14	2.85	23.7	18.45	6.2	2.89
0968739		0.40	<1	93.8	93.1	11.9	10	0.17	19	22.3	15.35	2.85	22.3	19.30	11.5	4.90
0968740		0.04	<1	197.0	97.2	1.2	60	0.18	28	25.5	17.30	4.22	26.2	22.6	17.0	5.57
0968741		0.55	<1	34.5	15.9	54.5	440	0.22	42	4.55	2.75	0.75	14.8	4.09	2.6	0.94
0968742		0.40	<1	58.7	22.8	34.9	40	0.15	6	6.41	3.96	1.61	21.6	5.56	3.7	1.38
0968743		0.58	<1	87.9	36.5	33.1	40	0.21	8	10.05	6.61	1.75	21.3	9.02	5.0	2.18
0968744		0.59	<1	78.4	84.8	12.4	10	0.12	26	20.9	14.25	2.49	22.7	17.50	10.9	4.53
0968745		0.37	<1	41.7	10.8	37.3	290	0.07	90	3.24	2.08	0.80	15.8	2.84	1.8	0.69
0968746		0.35	<1	60.2	9.8	56.3	220	0.17	111	2.96	1.85	0.74	16.7	2.45	1.8	0.63
0968747		0.45	<1	233	7.2	27.8	120	0.37	59	2.04	1.29	0.57	16.8	1.77	1.2	0.43
0968748		0.32	<1	2.7	81.3	2.9	<10	0.07	<5	10.10	6.87	1.11	13.6	10.20	8.1	2.15
0968749		0.50	<1	28.1	99.8	16.5	20	0.09	34	22.4	15.30	3.06	26.6	18.95	11.0	4.83
0968750		Not Recvd														
0968751		0.52	<1	151.0	19.8	31.9	110	0.44	31	2.41	1.46	1.01	16.5	2.83	2.8	0.50
0968752		0.51	<1	1.1	34.9	26.1	20	0.02	<5	8.41	5.34	1.47	19.3	8.00	5.0	1.80
0968753		0.54	<1	38.0	27.7	34.0	440	0.16	43	2.83	1.70	0.96	16.8	3.51	2.4	0.56
0968754		0.49	<1	17.5	287	52.1	<10	0.49	591	26.5	15.95	3.53	36.2	35.0	17.6	5.29

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Finalisée date: 23-SEPT-2010
Compte: NORMAT

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CERTIFICAT D'ANALYSE VO10123726

Description échantillon	Méthode élément unités L.D.	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Mo ppm 2	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Ni ppm 5	ME-MS81 Pb ppm 5	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05
0968733		3.3	0.22	<2	2.2	5.5	161	<5	1.14	2.0	1.66	1	66.4	0.1	0.38	0.36
0968734		4.7	0.25	<2	4.5	8.5	25	8	1.76	0.2	2.36	16	23.6	0.3	0.49	1.38
0968735		15.9	0.82	<2	13.5	20.4	14	<5	4.81	17.2	5.21	2	73.7	1.0	1.12	3.20
0968736		6.8	<0.01	<2	1.1	4.1	<5	102	1.22	0.5	0.80	15	1.7	0.1	0.10	0.43
0968737		285	6.98	4	8.3	414	21	<5	88.9	12.3	132.5	8	4.2	0.6	31.4	2.70
0968738		49.4	0.91	<2	9.8	70.5	93	<5	15.80	48.5	17.65	14	20.9	0.7	2.85	2.69
0968739		39.6	2.18	<2	31.5	57.4	<5	<5	12.50	10.4	15.70	4	82.3	2.1	3.48	4.84
0968740		38.9	2.45	<2	25.7	68.2	<5	<5	14.10	24.7	19.25	5	46.5	1.6	4.06	3.38
0968741		6.5	0.38	<2	3.7	10.9	90	<5	2.25	1.4	3.28	1	92.5	0.2	0.73	0.55
0968742		9.3	0.50	<2	5.6	14.8	40	6	3.02	8.0	4.35	1	29.6	0.4	1.03	1.07
0968743		15.3	0.93	<2	11.0	24.2	28	<5	5.13	13.4	7.06	4	51.7	0.7	1.58	1.68
0968744		34.5	2.10	<2	29.1	53.6	<5	<5	11.75	8.3	14.35	2	71.9	1.9	3.16	4.61
0968745		4.4	0.28	<2	2.7	7.4	55	<5	1.51	3.8	2.29	1	134.0	0.2	0.50	0.40
0968746		4.1	0.26	<2	2.6	6.9	147	<5	1.37	7.0	1.99	2	160.5	0.2	0.44	0.38
0968747		3.0	0.18	<2	1.8	5.0	47	<5	1.00	39.0	1.42	<1	195.5	0.1	0.31	0.28
0968748		44.9	1.00	<2	13.9	39.1	<5	<5	9.30	0.3	9.16	3	4.5	1.0	1.64	3.48
0968749		46.1	2.21	<2	28.4	57.5	20	<5	13.05	3.2	16.00	6	57.6	1.9	3.50	4.86
0968750																
0968751		9.0	0.20	<2	4.2	10.9	112	<5	2.49	27.9	2.45	3	100.5	0.3	0.43	0.95
0968752		14.3	0.77	<2	9.2	23.7	12	<5	5.01	0.2	6.80	9	3.0	0.6	1.37	1.58
0968753		12.2	0.22	<2	7.7	15.8	209	<5	3.62	7.1	3.51	1	138.5	0.4	0.51	1.41
0968754		122.0	2.21	53	28.4	160.5	6	<5	37.1	1.9	38.2	3	3.2	2.0	5.03	7.91

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À: XSTRATA ZINC CANADA EXPLORATION
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MATAGAMI QC J0Y 2A0

Finalisée date: 23-SEPT-2010
Compte: NORMAT

Projet: 641

CERTIFICAT D'ANALYSE VO10123726

Description échantillon	Méthode élément unités L.D.	ME-MS81 Tl ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	ME-MS81 Zn ppm 5	ME-MS81 Zr ppm 2	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01
0968733		<0.5	0.22	0.09	182	2	13.3	1.52	102	53	42.8	13.60	11.95	8.61	8.24	2.20
0968734		<0.5	0.28	0.40	78	2	18.3	1.81	1940	109	43.3	8.92	21.3	8.13	5.34	0.02
0968735		<0.5	0.81	0.71	73	2	44.8	5.60	110	217	62.6	13.20	6.15	4.40	2.00	4.38
0968736		0.9	0.03	0.07	18	5	2.8	0.30	>10000	45	32.1	3.62	38.8	0.08	1.30	0.01
0968737		<0.5	10.00	8.41	145	4	854	58.0	916	153	26.5	22.0	13.65	0.37	20.5	0.03
0968738		0.6	1.02	1.67	171	4	73.2	6.77	2030	207	48.2	18.35	8.86	0.30	11.60	1.37
0968739		<0.5	2.28	1.21	45	2	132.5	15.15	266	320	66.4	11.45	8.17	2.59	2.31	3.15
0968740		<0.5	2.50	0.84	<5	2	144.0	16.75	486	580	72.3	10.60	6.76	1.09	1.60	1.33
0968741		<0.5	0.39	0.16	238	2	24.3	2.64	136	86	45.9	16.35	13.85	4.65	8.55	3.19
0968742		<0.5	0.56	0.27	236	2	35.9	3.57	310	129	47.0	14.45	16.45	3.61	8.15	1.38
0968743		<0.5	0.96	0.42	243	2	56.6	6.32	177	154	50.8	12.75	14.60	4.22	6.45	0.88
0968744		<0.5	2.13	1.08	54	2	123.5	14.35	107	306	65.0	11.45	8.71	2.59	2.41	3.23
0968745		<0.5	0.29	0.10	206	1	18.1	1.97	91	59	49.6	14.15	12.20	11.10	5.97	2.24
0968746		<0.5	0.26	0.09	219	1	15.9	1.80	102	59	47.6	14.90	13.90	8.69	8.75	1.39
0968747		<0.5	0.19	0.07	148	1	11.7	1.27	61	42	46.9	21.1	8.09	7.57	4.07	4.41
0968748		<0.5	1.01	0.81	9	1	60.2	6.86	276	261	51.7	11.35	14.15	0.81	13.80	0.03
0968749		<0.5	2.27	1.11	139	2	130.0	15.35	151	315	55.9	16.60	9.62	1.52	5.18	5.40
0968750																
0968751		0.5	0.20	0.22	114	2	13.3	1.42	218	105	51.7	14.95	8.97	6.50	5.22	2.42
0968752		<0.5	0.79	0.38	113	9	46.5	5.34	293	160	53.2	12.10	18.05	0.35	8.90	0.04
0968753		<0.5	0.23	0.34	136	2	15.0	1.53	157	89	48.0	13.50	8.24	7.17	9.26	1.96
0968754		<0.5	2.25	3.15	37	4	138.0	15.10	262	588	26.2	22.6	15.15	0.06	21.8	0.03

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Finalisée date: 23-SEPT-2010
Compte: NORMAT

Projet: 641

CERTIFICAT D'ANALYSE VO10123726

Description échantillon	Méthode élément unités L.D.	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.01	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01
0968733		0.08	0.04	0.77	0.18	0.07	0.01	<0.01	10.75	99.3
0968734		<0.01	<0.01	0.47	0.19	0.09	0.01	<0.01	7.64	95.4
0968735		0.65	<0.01	0.61	0.08	0.17	0.01	0.02	3.00	97.3
0968736		<0.01	<0.01	0.21	0.19	0.02	<0.01	<0.01	19.35	95.7
0968737		0.69	<0.01	0.56	0.09	0.40	0.01	0.01	10.70	95.5
0968738		1.96	0.02	0.81	0.05	0.10	0.01	0.03	6.55	98.2
0968739		0.43	<0.01	0.93	0.07	0.21	0.02	0.01	3.48	99.2
0968740		1.46	0.01	0.27	0.16	0.02	0.01	0.02	3.48	99.1
0968741		0.07	0.07	1.10	0.19	0.11	0.02	<0.01	6.38	100.5
0968742		0.28	0.01	1.35	0.25	0.23	0.01	<0.01	7.11	100.5
0968743		0.55	0.01	1.36	0.16	0.18	0.01	0.01	7.44	99.4
0968744		0.37	<0.01	1.06	0.09	0.21	0.01	0.01	3.88	99.0
0968745		0.22	0.05	0.90	0.20	0.11	0.02	<0.01	2.78	99.5
0968746		0.37	0.04	0.88	0.19	0.08	0.03	<0.01	4.21	101.0
0968747		1.62	0.02	0.59	0.11	0.06	0.03	0.03	5.00	99.6
0968748		0.01	<0.01	0.36	0.14	0.05	0.01	<0.01	6.59	99.0
0968749		0.14	<0.01	1.21	0.10	0.22	0.01	<0.01	3.09	99.0
0968750										
0968751		1.27	0.02	0.77	0.17	0.18	0.02	0.01	7.37	99.6
0968752		<0.01	<0.01	1.14	0.16	0.23	<0.01	<0.01	4.79	99.0
0968753		0.27	0.06	0.60	0.09	0.19	0.02	<0.01	9.87	99.2
0968754		0.08	<0.01	0.56	0.07	0.04	0.01	<0.01	10.15	96.8

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Finalisée date: 5-NOV-2010
Compte: NORMAT

CERTIFICAT VO10150111

Projet: 642

Bon de commande #:

Ce rapport s'applique aux 31 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 14-OCT-2010.

Les résultats sont transmis à:

PATRICK CARR	MICHEL DESSUREAULT	GILLES ROY

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
ME-MS81	Fusion 38 éléments ICP-MS	ICP-MS
Cu-AA45	Trace Cu-Digestion Aqua regia	AAS
Zn-AA45	Trace Zn - Aqua regia /AAS	AAS
ME-XRF06	Roche totale - XRF	XRF
OA-GRA06	Perte par calcination pour ME-XRF06	WST-SIM
ME-XRF05	Analyse XRF de degré trace	XRF
Cu-AA62	Teneur marchande Cu - quatre acides / AAS	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICAT D'ANALYSE VO10150111

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Cu-AA45 Cu ppm 1	Cu-AA62 Cu % 0.001	Zn-AA45 Zn ppm 1	ME-XRF06 SiO2 % 0.01	ME-XRF06 Al2O3 % 0.01	ME-XRF06 Fe2O3 % 0.01	ME-XRF06 MgO % 0.01	ME-XRF06 CaO % 0.01	ME-XRF06 Na2O % 0.01	ME-XRF06 K2O % 0.01	ME-XRF06 TiO2 % 0.01	ME-XRF06 P2O5 % 0.001	ME-XRF06 MnO % 0.01	ME-XRF05 Ba ppm 10
0968220		0.46	97		50	47.50	15.57	10.79	8.66	9.87	1.31	0.55	0.68	0.064	0.16	80
0968221		0.42	114		56	46.82	22.90	7.27	3.97	11.42	2.58	0.42	0.61	0.051	0.11	100
0968222		0.53	28		70	63.29	11.22	8.00	2.33	6.71	1.49	0.29	0.97	0.236	0.10	50
0968223		0.37	247		184	53.03	15.87	9.28	4.08	9.12	1.46	0.33	1.23	0.177	0.14	60
0968224		0.17	23		211	44.13	11.12	9.31	9.92	10.56	0.46	0.02	0.57	0.142	0.13	10
0968225		0.52	10		104	66.05	13.35	6.43	1.81	2.77	4.62	0.19	0.64	0.175	0.10	60
0968226		0.46	49		132	64.10	13.39	6.77	1.77	3.67	4.45	0.43	0.67	0.183	0.10	170
0968227		0.43	45		98	64.63	13.70	6.09	1.65	2.46	5.64	0.04	0.68	0.180	0.06	40
0968228		0.26	74		217	48.55	13.09	15.17	9.25	3.52	0.43	0.01	1.29	0.107	0.11	<10
0968229		0.22	68		349	56.30	10.87	14.06	9.72	1.18	0.01	<0.01	0.41	0.044	0.06	10
0968230		0.55	10		124	51.31	15.03	6.87	4.75	6.92	4.45	0.28	0.66	0.098	0.06	60
0968231		0.49	86		102	49.86	14.36	12.56	6.52	8.26	2.13	0.15	0.99	0.081	0.18	50
0968232		0.52	90		72	43.58	18.60	8.76	6.44	7.90	3.41	2.08	0.51	0.044	0.14	210
0968233		0.49	161		64	68.96	13.00	4.38	1.49	2.01	5.12	0.37	0.65	0.125	0.05	140
0968234		0.44	60		112	42.94	19.37	6.90	3.45	10.97	3.21	2.56	0.47	0.043	0.13	400
0968235		0.22	17		111	62.41	8.37	9.14	8.89	4.20	0.02	0.02	0.25	0.045	0.09	10
0968236		0.52	10		115	64.99	13.42	6.81	2.02	2.87	3.89	0.82	0.69	0.178	0.09	190
0968237		0.50	30		208	60.91	13.72	8.47	4.52	1.99	3.01	0.55	0.94	0.172	0.15	100
0968238		0.37	51		339	26.34	18.72	29.94	13.87	0.02	0.02	0.01	0.95	0.015	0.28	<10
0968239		0.53	193		320	58.09	13.39	13.17	6.50	0.39	0.92	0.52	1.10	0.231	0.13	100
0968240		0.49	14		380	53.77	12.70	19.60	6.70	0.32	0.04	0.02	1.33	0.222	0.19	10
0968241		0.51	6220	0.702	136	16.23	1.00	70.63	6.49	1.15	0.03	0.02	0.03	0.016	0.10	40
0968242		0.27	84		265	27.79	18.96	25.76	15.84	0.70	<0.01	0.01	0.56	0.041	0.12	10
0968243		0.23	59		152	47.70	13.43	9.39	9.75	6.12	1.36	0.10	0.65	0.173	0.11	30
0968244		0.56	35		122	62.99	13.59	6.12	10.05	0.02	0.03	1.09	0.35	0.021	0.02	160
0968245		0.20	23		396	33.68	18.49	21.94	14.75	0.16	0.01	0.02	0.83	0.102	0.12	10
0968246		0.31	35		57	52.96	14.85	9.99	4.82	9.14	2.98	0.15	0.89	0.126	0.11	60
0968247		0.41	207		90	50.58	13.96	12.64	5.98	8.35	1.77	0.14	0.95	0.101	0.16	40
0968248		0.39	67		85	42.66	9.16	7.85	10.30	13.48	0.34	0.14	0.62	0.507	0.14	40
0968249		0.43	110		88	48.42	13.86	11.62	7.80	8.95	2.58	0.67	0.85	0.088	0.20	110
0968250		0.64	151		98	47.42	14.15	12.52	8.70	8.62	1.79	0.26	0.85	0.098	0.19	50

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Finalisée date: 5-NOV-2010
Compte: NORMAT

Projet: 642

CERTIFICAT D'ANALYSE VO10150111

Description échantillon	Méthode élément unités L.D.	ME-XRF05 Sr ppm 2	ME-XRF06 Cr2O3 % 0.01	ME-XRF06 LOI % 0.01	ME-XRF06 Total % 0.01	ME-XRF05 Zr ppm 2	ME-XRF05 Y ppm 2	ME-XRF05 Nb ppm 2	ME-XRF05 Rb ppm 2	ME-MS81 Ag ppm 1	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Co ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Cu ppm 5
0968220		113	0.03	3.31	98.51	44	16	2	12	<1	63.8	8.9	59.3	300	0.28	83
0968221		197	0.01	3.34	99.54	40	13	2	9	<1	100.5	6.6	28.7	110	0.14	99
0968222		125	<0.01	3.60	98.27	196	64	14	7	<1	50.7	50.8	14.7	10	0.11	19
0968223		226	0.01	4.24	99.00	122	30	5	9	<1	54.9	19.6	39.5	60	0.16	211
0968224		143	0.07	13.25	99.70	71	13	6	<2	<1	7.0	26.7	46.4	720	0.14	6
0968225		139	<0.01	2.72	98.88	223	50	13	5	<1	59.9	56.3	7.6	20	0.04	6
0968226		102	<0.01	3.80	99.36	222	54	13	9	<1	149.5	48.1	13.6	10	0.11	37
0968227		87	0.01	2.94	98.09	228	55	14	<2	<1	35.2	54.9	10.2	20	0.03	37
0968228		36	0.02	7.61	99.18	89	35	5	<2	<1	3.3	24.6	45.0	80	0.08	64
0968229		14	0.01	5.82	98.48	259	66	13	<2	<1	1.7	58.2	10.0	10	0.07	61
0968230		180	0.01	8.21	98.68	98	8	3	6	<1	56.0	19.0	18.5	100	0.15	<5
0968231		133	0.02	3.09	98.22	69	20	3	3	<1	35.1	12.6	46.9	220	0.23	64
0968232		76	0.02	7.76	99.27	25	19	2	54	<1	208	5.5	41.0	180	0.71	75
0968233		58	<0.01	1.98	98.17	220	54	13	8	<1	126.5	53.5	23.5	10	0.07	126
0968234		118	0.01	9.73	99.84	27	21	2	60	<1	404	6.6	25.8	130	0.70	52
0968235		38	<0.01	6.78	100.25	197	66	11	<2	<1	3.2	102.5	2.6	<10	0.04	12
0968236		98	<0.01	3.34	99.15	226	49	14	20	<1	168.5	53.6	36.6	10	0.20	5
0968237		69	<0.01	4.38	98.83	265	101	23	13	<1	91.2	77.5	16.6	20	0.15	24
0968238		2	0.01	8.57	98.75	257	7	7	<2	<1	1.5	23.4	5.8	10	0.23	47
0968239		14	0.01	4.42	98.88	207	70	12	12	<1	90.6	41.9	18.2	10	0.14	174
0968240		4	0.01	4.95	99.86	169	52	10	<2	<1	2.7	38.6	26.3	20	0.11	10
0968241		11	0.02	2.39	98.12	2	9	<2	5	<1	<0.5	49.0	39.2	<10	0.12	3510
0968242		10	0.01	9.34	99.13	500	120	23	2	<1	<0.5	124.5	65.4	<10	0.35	79
0968243		114	0.04	9.84	98.68	88	15	8	2	<1	17.7	39.7	39.9	400	0.18	26
0968244		6	<0.01	5.28	99.58	314	63	13	20	<1	130.5	48.1	18.2	<10	0.31	14
0968245		3	0.05	8.57	98.73	111	12	5	<2	<1	2.1	22.9	58.9	340	0.07	5
0968246		162	0.02	2.10	98.16	82	13	3	2	<1	55.5	15.9	35.3	120	0.05	23
0968247		135	0.03	3.57	98.25	74	22	3	3	<1	33.4	13.5	51.2	210	0.18	165
0968248		187	0.08	14.10	99.40	141	18	4	2	<1	37.2	96.6	46.9	720	0.13	55
0968249		90	0.06	4.58	99.71	56	21	3	14	<1	97.4	11.6	54.3	350	0.28	107
0968250		121	0.03	5.22	99.87	65	21	3	5	<1	44.0	12.3	66.2	210	0.15	100

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CERTIFICAT D'ANALYSE VO10150111

Description échantillon	Méthode élément unités L.D.	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Mo ppm 2	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Ni ppm 5	ME-MS81 Pb ppm 5	ME-MS81 Pr ppm 0.03
0968220		2.50	1.49	0.67	15.4	1.78	1.3	0.50	3.6	0.24	<2	2.3	6.1	202	<5	1.30
0968221		1.94	1.23	0.52	17.8	1.47	1.0	0.41	2.8	0.18	<2	1.9	4.5	50	<5	0.99
0968222		10.90	6.76	1.66	18.6	8.15	5.8	2.21	22.7	1.00	2	13.8	30.2	6	<5	7.07
0968223		5.48	3.36	1.29	18.4	4.10	3.2	1.10	8.1	0.51	<2	5.1	13.3	33	<5	2.91
0968224		2.78	1.50	1.30	13.4	3.09	1.8	0.51	11.7	0.19	<2	5.9	16.1	380	<5	3.86
0968225		9.03	5.68	1.33	17.2	7.26	6.3	1.87	24.8	0.89	<2	13.6	30.8	19	<5	7.40
0968226		8.75	5.68	1.31	17.4	6.58	6.0	1.86	20.9	0.88	<2	13.3	26.6	18	<5	6.37
0968227		9.54	6.12	1.47	16.8	7.38	6.4	1.99	24.4	0.94	<2	13.9	30.3	18	<5	7.30
0968228		5.98	3.60	1.28	17.9	4.83	2.8	1.23	10.5	0.53	<2	5.1	16.7	43	<5	3.60
0968229		11.35	7.45	1.80	16.5	8.46	7.9	2.44	25.2	1.18	4	13.5	33.1	7	<5	7.89
0968230		1.96	1.16	0.72	15.9	1.98	2.5	0.39	9.2	0.17	<2	3.4	9.2	110	<5	2.37
0968231		3.70	2.25	0.94	18.2	2.72	2.0	0.77	5.3	0.35	<2	3.1	8.7	65	<5	1.84
0968232		1.66	1.08	0.42	13.9	1.28	0.9	0.36	2.4	0.17	<2	1.4	3.9	143	<5	0.84
0968233		9.15	6.18	1.17	15.2	6.81	6.5	1.94	23.6	0.96	<2	13.4	27.6	8	<5	6.95
0968234		1.68	1.07	0.52	14.7	1.34	0.9	0.34	2.8	0.16	<2	1.3	4.4	46	<5	0.95
0968235		11.90	6.82	1.28	12.2	10.20	5.9	2.32	54.0	0.96	2	10.5	42.1	<5	<5	11.55
0968236		8.49	5.54	1.27	17.3	7.21	6.4	1.76	23.6	0.91	<2	13.9	28.9	17	<5	7.13
0968237		17.75	11.45	2.95	22.5	12.80	8.7	3.71	33.3	1.76	<2	22.9	46.1	18	<5	10.80
0968238		4.04	2.05	1.18	25.3	3.11	6.6	0.74	10.5	0.23	<2	7.7	12.1	<5	<5	3.10
0968239		12.05	7.73	2.71	22.5	8.64	6.2	2.48	17.1	1.12	3	11.9	27.2	9	<5	6.04
0968240		9.59	6.09	2.04	20.2	7.90	5.1	1.99	15.4	0.89	<2	9.7	23.3	15	<5	4.81
0968241		2.22	0.76	1.05	14.4	5.21	0.3	0.28	22.6	0.05	117	<0.2	24.0	<5	<5	5.37
0968242		22.1	14.05	2.32	67.4	19.60	14.3	4.61	59.2	2.04	15	23.2	67.5	<5	<5	15.15
0968243		3.32	1.81	1.14	17.9	4.53	2.5	0.64	17.2	0.25	<2	8.4	22.7	180	<5	5.30
0968244		11.50	7.65	1.00	12.7	8.69	9.3	2.54	20.5	1.21	<2	15.4	25.9	<5	<5	6.13
0968245		2.98	1.69	0.60	28.1	3.13	3.1	0.60	11.0	0.23	<2	5.3	11.2	219	<5	2.77
0968246		2.60	1.54	0.92	18.8	2.49	2.1	0.54	7.2	0.22	<2	3.5	8.8	51	<5	2.03
0968247		3.78	2.40	0.95	17.6	3.16	2.2	0.83	5.7	0.36	<2	3.4	8.9	60	<5	1.91
0968248		4.89	2.09	3.06	12.0	9.76	3.3	0.81	44.6	0.21	<2	5.2	60.0	214	<5	14.05
0968249		3.28	2.07	0.71	14.7	2.71	1.7	0.69	4.7	0.29	<2	2.7	7.6	101	<5	1.63
0968250		3.37	2.17	0.86	16.7	2.87	1.9	0.75	5.1	0.32	<2	3.0	7.9	174	<5	1.74

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À: XSTRATA ZINC CANADA EXPLORATION
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Finalisée date: 5-NOV-2010
Compte: NORMAT

Projet: 642

CERTIFICAT D'ANALYSE VO10150111

Description échantillon	Méthode élément unités L.D.	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tl ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	ME-MS81 Zn ppm 5
0968220		12.4	1.68	<1	123.0	0.1	0.37	0.33	<0.5	0.22	0.09	154	<1	13.5	1.46	77
0968221		8.3	1.29	<1	210	0.1	0.30	0.29	<0.5	0.18	0.06	152	<1	10.8	1.11	58
0968222		6.7	8.06	1	135.0	1.0	1.62	3.57	<0.5	0.98	0.86	52	<1	59.7	6.38	76
0968223		8.3	3.98	1	234	0.3	0.81	0.79	<0.5	0.47	0.20	150	<1	28.3	3.09	186
0968224		0.5	3.72	2	153.0	0.3	0.50	1.07	<0.5	0.20	0.25	128	<1	13.6	1.36	190
0968225		4.2	7.27	2	150.5	1.1	1.38	3.30	<0.5	0.84	0.79	72	<1	49.4	5.49	108
0968226		9.3	6.49	3	110.5	1.0	1.35	3.28	<0.5	0.86	0.77	76	<1	52.0	5.56	124
0968227		0.6	7.43	3	94.5	1.1	1.45	3.43	<0.5	0.92	0.83	76	<1	54.5	5.89	95
0968228		0.3	4.82	2	37.2	0.3	0.94	0.67	<0.5	0.53	0.17	311	<1	32.1	3.46	248
0968229		<0.2	8.36	4	15.3	1.0	1.73	3.42	<0.5	1.11	0.86	34	<1	67.0	7.37	369
0968230		6.3	2.15	1	192.0	0.3	0.33	1.28	<0.5	0.17	0.32	128	<1	10.1	1.06	127
0968231		2.4	2.50	1	145.5	0.2	0.56	0.49	<0.5	0.33	0.13	269	<1	20.0	2.13	121
0968232		55.6	1.11	<1	81.0	0.1	0.25	0.21	<0.5	0.16	0.05	137	<1	8.7	1.03	82
0968233		8.4	6.71	2	62.5	1.2	1.35	6.19	<0.5	0.93	1.27	54	<1	51.9	6.12	51
0968234		62.8	1.17	1	129.5	0.1	0.26	0.37	<0.5	0.15	0.05	135	<1	9.0	0.97	118
0968235		0.5	9.06	3	40.7	0.8	1.98	2.70	<0.5	1.01	0.72	12	<1	62.2	6.31	115
0968236		19.9	7.06	2	105.5	1.1	1.36	3.43	<0.5	0.85	0.81	65	1	46.3	5.62	116
0968237		12.7	11.90	4	73.6	1.7	2.63	4.25	<0.5	1.77	1.00	109	1	93.6	11.15	221
0968238		0.2	3.03	4	1.3	0.6	0.66	3.31	<0.5	0.28	0.75	70	1	16.4	1.71	359
0968239		11.8	7.66	4	14.4	0.8	1.77	2.29	<0.5	1.14	0.55	79	1	64.7	7.40	329
0968240		0.6	6.99	10	3.8	0.7	1.54	1.78	<0.5	0.93	0.45	138	1	46.2	6.12	343
0968241		0.6	6.69	3	9.9	<0.1	0.56	0.10	<0.5	0.02	0.70	<5	<1	5.5	0.62	127
0968242		0.5	17.90	8	10.4	1.9	3.67	6.86	<0.5	2.21	2.14	15	2	105.5	14.10	230
0968243		3.4	4.88	3	123.5	0.5	0.62	1.57	<0.5	0.27	0.35	129	2	17.2	1.77	152
0968244		24.5	6.61	1	5.4	1.2	1.69	4.16	<0.5	1.21	1.23	27	2	66.8	8.25	113
0968245		0.7	2.82	11	2.7	0.4	0.50	1.68	<0.5	0.24	0.40	139	3	16.3	1.64	396
0968246		2.2	2.15	1	172.0	0.3	0.42	0.75	<0.5	0.23	0.19	181	1	14.5	1.53	82
0968247		3.0	2.48	1	142.0	0.3	0.58	0.59	<0.5	0.36	0.14	215	1	21.6	2.47	103
0968248		2.5	11.85	1	204	0.4	1.14	5.02	<0.5	0.24	0.90	110	1	22.3	1.54	85
0968249		16.1	2.22	1	103.5	0.3	0.49	0.48	<0.5	0.30	0.11	189	1	18.4	2.08	109
0968250		5.8	2.35	1	128.0	0.3	0.52	0.51	<0.5	0.31	0.12	187	1	19.9	2.22	124

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Finalisée date: 5-NOV-2010
Compte: NORMAT

Projet: 642

CERTIFICAT D'ANALYSE VO10150111

Description échantillon	Méthode élément unités L.D.	ME-MS81 Zr ppm 2
0968220		50
0968221		37
0968222		196
0968223		113
0968224		72
0968225		221
0968226		221
0968227		231
0968228		96
0968229		267
0968230		97
0968231		71
0968232		31
0968233		221
0968234		32
0968235		197
0968236		228
0968237		266
0968238		261
0968239		214
0968240		174
0968241		15
0968242		469
0968243		101
0968244		312
0968245		131
0968246		86
0968247		80
0968248		146
0968249		65
0968250		73

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Finalisée date: 10-NOV-2010
Compte: NORMAT

CERTIFICAT VO10153271

Projet: 642

Bon de commande #:

Ce rapport s'applique aux 31 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 19-OCT-2010.

Les résultats sont transmis à:

PATRICK CARR	MICHEL DESSUREAULT	GILLES ROY

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
ME-MS81	Fusion 38 éléments ICP-MS	ICP-MS
Cu-AA45	Trace Cu-Digestion Aqua regia	AAS
Zn-AA45	Trace Zn - Aqua regia /AAS	AAS
ME-XRF06	Roche totale - XRF	XRF
OA-GRA06	Perte par calcination pour ME-XRF06	WST-SIM
ME-XRF05	Analyse XRF de degré trace	XRF
Zn-AA62	Teneur marchande Zn - quqtre acides / AAS	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICAT D'ANALYSE VO10153271

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Cu-AA45 Cu ppm 1	Zn-AA45 Zn ppm 1	Zn-AA62 Zn % 0.001	ME-XRF06 SiO2 % 0.01	ME-XRF06 Al2O3 % 0.01	ME-XRF06 Fe2O3 % 0.01	ME-XRF06 MgO % 0.01	ME-XRF06 CaO % 0.01	ME-XRF06 Na2O % 0.01	ME-XRF06 K2O % 0.01	ME-XRF06 TiO2 % 0.01	ME-XRF06 P2O5 % 0.001	ME-XRF06 MnO % 0.01	ME-XRF05 Ba ppm 10
0968051		0.52	28	135		63.69	11.63	7.96	3.32	3.80	3.09	0.35	0.68	0.157	0.06	70
0968052		0.26	15	950		37.79	17.32	23.49	11.56	0.42	0.01	0.09	1.71	0.137	0.43	20
0968053		0.29	158	>10000	2.03	58.48	12.69	13.88	1.34	0.04	0.72	3.82	0.46	0.020	0.04	480
0968054		0.20	44	323		58.91	16.22	10.32	5.30	0.17	0.04	2.95	0.63	0.117	0.21	380
0968055		0.24	10	446		47.59	13.91	20.84	8.88	0.28	0.01	0.02	0.74	0.174	0.55	10
0968056		0.47	43	196		52.85	14.82	8.03	4.73	6.20	2.05	1.63	0.74	0.170	0.25	160
0968057		0.52	11	222		54.61	15.46	9.96	6.47	2.01	3.63	0.34	0.69	0.087	0.09	80
0968058		0.53	3620	381		26.33	16.89	29.77	15.27	0.15	0.01	<0.01	0.56	0.038	0.12	10
0968059		0.44	27	102		44.80	11.66	8.59	9.10	10.21	1.25	0.08	0.57	0.150	0.14	20
0968060		0.48	140	76		43.62	8.20	16.83	16.70	8.36	0.11	0.04	0.53	0.055	0.27	20
0968061		0.40	94	66		48.54	14.57	12.73	7.42	8.72	2.22	0.46	0.89	0.088	0.19	110
0968062		0.47	105	58		49.14	14.45	12.65	7.50	9.11	2.90	0.09	0.90	0.082	0.19	40
0968063		0.24	11	434		38.12	16.32	23.77	11.06	1.56	<0.01	0.02	1.75	0.182	0.39	<10
0968064		0.24	179	1090		38.74	27.62	12.93	1.08	0.03	0.13	8.57	1.06	0.025	0.10	620
0968065		0.17	46	467		57.20	13.91	13.37	2.65	0.11	0.06	3.63	0.76	0.074	0.06	510
0968066		0.17	63	115		50.93	15.00	8.20	4.77	7.03	2.28	1.66	0.67	0.087	0.12	240
0968067		0.20	41	168		52.42	13.76	7.52	6.12	6.29	2.90	0.61	0.60	0.091	0.11	110
0968068		0.18	64	476		27.27	20.07	18.46	21.51	0.07	0.01	0.01	0.51	0.039	0.12	10
0968069		0.40	17	86		60.50	13.13	7.62	4.08	3.64	2.44	1.20	0.68	0.130	0.09	290
0968070		0.40	6	121		63.16	15.02	8.13	2.65	1.93	4.93	0.54	0.74	0.205	0.08	160
0968071		0.51	87	64		51.27	14.14	12.56	6.60	8.41	2.99	0.32	0.95	0.087	0.17	70
0968072		0.63	142	76		48.36	14.93	12.59	7.40	8.18	2.76	0.39	0.87	0.068	0.20	70
0968073		0.39	93	64		48.12	13.35	11.62	7.00	10.84	2.19	0.13	0.82	0.078	0.18	40
0968074		0.51	22	272		52.82	14.97	13.70	5.21	3.24	3.91	0.05	1.43	0.175	0.19	20
0968075		0.42	37	158		52.29	15.12	8.54	5.47	5.26	2.43	1.69	0.79	0.182	0.12	310
0968076		0.19	48	253		51.45	14.14	12.95	5.71	4.27	2.45	0.45	1.08	0.229	0.12	80
0968077		0.19	87	361		45.53	12.36	16.24	7.51	6.98	0.47	0.32	1.22	0.141	0.26	60
0968078		0.16	358	7970	0.833	68.63	10.14	9.40	0.45	0.02	0.32	3.21	0.37	0.019	0.02	310
0968079		0.15	10	374		52.16	11.74	20.99	7.71	0.33	<0.01	0.01	0.37	0.035	0.21	10
0968080		0.51	22	90		65.02	9.05	6.68	2.10	5.84	2.59	0.24	0.78	0.160	0.12	60
0968081		0.53	614	208		52.02	11.85	14.98	9.66	2.20	0.01	0.01	0.67	0.083	0.12	10

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Projet: 642

Finalisée date: 10-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10153271

Description échantillon	Méthode élément unités L.D.	ME-XRF05 Sr ppm 2	ME-XRF06 Cr2O3 % 0.01	ME-XRF06 LOI % 0.01	ME-XRF06 Total % 0.01	ME-XRF05 Zr ppm 2	ME-XRF05 Y ppm 2	ME-XRF05 Nb ppm 2	ME-XRF05 Rb ppm 2	ME-MS81 Ag ppm 1	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Co ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Cu ppm 5
0968051		56	0.01	3.95	98.70	217	70	18	10	<1	64.3	55.8	19.3	10	0.10	27
0968052		3	0.02	7.14	100.10	119	27	7	3	<1	13.0	8.9	22.8	110	0.15	8
0968053		8	0.01	8.13	99.68	110	26	4	93	1	453	18.1	31.0	40	0.67	125
0968054		8	0.01	4.31	99.23	149	21	5	61	<1	348	26.9	10.3	50	0.55	45
0968055		3	0.01	5.85	98.86	98	10	4	4	<1	2.6	16.7	18.4	100	0.08	<5
0968056		80	0.01	7.18	98.68	110	18	4	36	<1	145.5	21.7	31.3	90	0.52	43
0968057		87	0.02	5.02	98.40	78	12	3	8	<1	65.7	16.9	33.0	210	0.25	8
0968058		2	<0.01	9.24	98.39	474	111	22	<2	1	<0.5	129.0	184.5	<10	0.32	2870
0968059		177	0.06	11.70	98.33	81	15	7	2	<1	17.6	30.2	44.3	620	0.13	28
0968060		12	0.02	4.24	98.97	25	12	<2	<2	<1	3.7	5.2	114.0	180	0.28	149
0968061		151	0.02	2.89	98.77	64	21	3	8	<1	102.5	11.1	55.5	190	0.12	98
0968062		136	0.05	2.69	99.77	60	18	3	<2	<1	29.5	10.2	46.2	430	0.13	111
0968063		3	0.01	6.61	99.80	182	58	12	<2	2	4.7	27.3	36.0	60	0.17	<5
0968064		16	0.01	8.76	99.13	262	40	7	173	1	640	41.5	29.9	90	1.34	169
0968065		7	<0.01	7.02	98.89	170	28	5	82	<1	479	27.8	13.7	10	0.74	47
0968066		90	0.02	8.09	98.89	75	17	3	37	<1	218	13.8	30.4	160	0.52	58
0968067		103	0.03	7.86	98.33	87	12	3	13	<1	104.0	16.8	37.7	280	0.24	37
0968068		2	<0.01	10.35	98.42	439	100	21	2	1	2.6	184.0	39.4	<10	0.62	55
0968069		71	0.01	4.83	98.38	200	79	17	26	<1	253	54.0	20.5	80	0.31	15
0968070		78	0.01	2.45	99.87	250	61	15	12	<1	145.0	57.6	13.4	10	0.15	<5
0968071		130	0.03	2.26	99.80	67	19	3	6	<1	64.3	12.7	45.3	250	0.17	86
0968072		96	0.04	2.89	98.70	48	17	2	8	<1	60.6	9.0	51.4	350	0.33	144
0968073		182	0.04	5.68	100.05	58	17	2	3	<1	39.4	9.7	47.5	310	0.23	93
0968074		48	0.01	4.22	99.93	126	32	6	2	<1	22.2	22.8	37.3	40	0.07	19
0968075		60	0.02	6.57	98.51	113	20	4	43	<1	300	21.3	32.8	140	0.70	36
0968076		34	0.01	5.71	98.58	246	80	18	12	<1	76.5	65.8	19.4	10	0.19	44
0968077		34	0.01	7.19	98.23	107	28	5	44	1	45.7	22.3	57.9	40	0.23	91
0968078		7	0.01	5.72	98.33	81	19	3	73	1	297	13.1	18.0	40	0.53	362
0968079		2	<0.01	5.15	98.71	331	70	16	<2	<1	2.4	50.8	8.3	<10	0.11	<5
0968080		88	<0.01	5.77	98.36	241	99	22	5	<1	57.4	58.3	10.3	<10	0.08	20
0968081		29	<0.01	6.86	98.48	239	48	12	2	1	4.7	63.5	56.6	<10	0.14	659

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Finalisée date: 10-NOV-2010
Compte: NORMAT

Projet: 642

CERTIFICAT D'ANALYSE VO10153271

Description échantillon	Méthode élément unités L.D.	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Mo ppm 2	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Ni ppm 5	ME-MS81 Pb ppm 5	ME-MS81 Pr ppm 0.03
0968051		11.65	7.22	1.75	16.6	10.50	7.1	2.50	23.8	0.99	<2	18.8	31.5	11	9	7.17
0968052		4.89	3.48	1.45	24.5	3.62	4.0	1.16	3.5	0.57	2	7.3	6.8	56	<5	1.32
0968053		2.04	1.37	0.95	14.9	2.11	3.0	0.44	8.3	0.21	<2	4.1	8.7	31	24	2.19
0968054		2.39	1.50	1.03	19.1	2.84	4.3	0.52	12.6	0.22	<2	5.8	12.3	42	<5	3.18
0968055		2.27	1.45	1.71	29.9	2.52	2.9	0.49	7.5	0.21	<2	4.5	9.1	108	24	2.13
0968056		2.51	1.50	1.80	17.0	2.88	3.1	0.55	9.9	0.22	<2	4.7	11.1	105	<5	2.70
0968057		2.13	1.29	0.83	16.3	2.36	2.3	0.45	8.3	0.18	<2	3.1	8.3	136	<5	2.02
0968058		18.60	12.05	2.37	46.3	18.95	13.6	4.05	60.0	1.81	7	20.8	67.9	<5	<5	16.10
0968059		2.97	1.64	1.26	14.7	3.98	2.2	0.57	12.9	0.22	<2	7.2	17.3	333	<5	3.99
0968060		1.77	1.12	0.37	10.5	1.50	1.1	0.40	2.2	0.17	<2	1.6	3.5	531	<5	0.77
0968061		3.08	2.07	0.85	17.1	2.76	1.9	0.69	4.7	0.31	<2	2.9	7.1	128	<5	1.53
0968062		3.11	2.08	0.81	16.8	2.70	1.9	0.71	4.4	0.31	<2	2.8	6.8	94	<5	1.42
0968063		9.21	6.44	2.17	33.5	7.51	6.3	2.14	10.6	0.97	<2	13.1	19.0	38	<5	3.94
0968064		3.12	1.99	2.01	32.0	3.56	6.8	0.67	20.1	0.30	2	9.4	17.9	78	44	4.66
0968065		3.12	1.92	1.16	18.5	3.05	4.8	0.67	14.0	0.30	<2	6.3	12.1	6	26	3.19
0968066		1.92	1.23	0.95	15.9	2.02	2.2	0.43	6.5	0.18	<2	3.0	6.9	111	<5	1.69
0968067		1.96	1.18	0.59	15.0	2.20	2.4	0.41	8.2	0.17	<2	3.3	8.0	205	<5	1.99
0968068		19.20	12.00	1.38	35.7	23.2	13.5	4.03	81.5	1.73	15	23.6	99.3	<5	6	23.7
0968069		11.15	7.61	1.69	17.5	9.84	6.7	2.49	23.8	1.16	<2	17.2	30.5	55	<5	6.96
0968070		9.25	6.25	1.51	20.9	8.47	7.1	2.10	25.7	0.98	<2	16.0	29.7	17	<5	7.13
0968071		3.07	2.04	0.87	16.7	2.78	1.9	0.70	6.0	0.31	<2	2.9	7.8	72	<5	1.66
0968072		2.67	1.77	0.69	16.5	2.29	1.6	0.57	3.8	0.26	<2	2.3	6.0	116	<5	1.24
0968073		2.87	1.82	0.79	16.1	2.41	1.7	0.62	4.1	0.27	<2	2.5	6.4	109	<5	1.39
0968074		5.51	3.57	1.27	19.2	4.98	3.8	1.19	9.8	0.52	<2	6.0	14.0	43	11	3.08
0968075		2.60	1.56	0.91	17.4	2.85	3.1	0.54	9.7	0.23	<2	5.0	11.0	127	6	2.68
0968076		13.15	8.85	1.99	20.9	11.85	8.2	2.96	29.5	1.31	<2	19.2	37.1	10	10	8.58
0968077		4.49	2.97	1.68	17.6	4.17	3.4	0.98	11.1	0.47	<2	5.3	12.3	48	198	2.79
0968078		1.52	0.83	1.20	22.0	1.55	2.1	0.31	6.5	0.11	<2	3.3	6.3	32	31	1.60
0968079		11.95	7.92	1.50	17.0	8.51	9.5	2.73	21.8	1.22	2	18.5	29.1	<5	<5	6.72
0968080		15.95	10.50	2.18	15.4	12.45	7.8	3.60	24.0	1.64	4	23.5	36.1	<5	<5	7.97
0968081		8.97	5.76	1.58	26.5	8.56	6.7	1.94	29.2	0.91	2	13.8	34.8	<5	10	8.17

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Finalisée date: 10-NOV-2010
Compte: NORMAT

Projet: 642

CERTIFICAT D'ANALYSE VO10153271

Description échantillon	Méthode élément unités L.D.	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tl ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	ME-MS81 Zn ppm 5
0968051		9.1	9.04	3	58.2	1.3	1.91	3.56	<0.5	1.16	0.86	74	<1	66.9	6.91	145
0968052		2.1	2.50	11	3.3	0.5	0.73	0.91	<0.5	0.57	0.26	391	1	28.3	3.75	1105
0968053		84.5	2.04	28	6.3	0.3	0.33	1.54	1.7	0.21	0.38	82	<1	12.1	1.40	>10000
0968054		67.6	2.54	11	6.4	0.4	0.43	2.28	1.5	0.23	0.53	109	1	14.2	1.49	369
0968055		0.5	2.32	18	3.0	0.3	0.40	1.05	<0.5	0.22	0.27	119	1	12.8	1.33	491
0968056		38.9	2.71	2	82.2	0.3	0.45	1.11	0.8	0.24	0.26	120	<1	14.1	1.46	207
0968057		8.9	2.01	3	89.9	0.2	0.37	1.06	<0.5	0.19	0.25	152	1	11.9	1.21	246
0968058		0.2	17.80	4	2.0	1.4	3.19	6.41	<0.5	1.97	1.57	15	<1	111.5	12.35	400
0968059		2.2	4.15	1	185.5	0.3	0.56	1.27	<0.5	0.24	0.30	140	<1	15.4	1.50	118
0968060		1.1	1.20	<1	11.1	0.1	0.28	0.31	<0.5	0.17	0.07	150	<1	10.2	1.18	126
0968061		8.2	2.30	1	157.5	0.2	0.51	0.46	<0.5	0.32	0.12	238	<1	18.6	2.00	109
0968062		0.9	2.14	1	142.5	0.2	0.50	0.42	<0.5	0.32	0.11	249	<1	18.0	1.99	99
0968063		0.6	6.11	13	2.8	0.8	1.47	1.87	<0.5	1.04	0.47	371	1	59.0	6.50	497
0968064		164.5	3.69	28	13.3	0.7	0.56	3.58	4.2	0.31	0.85	176	1	17.6	1.95	1070
0968065		79.6	2.98	15	6.6	0.4	0.54	2.12	1.2	0.29	0.53	77	1	18.3	1.94	494
0968066		39.8	1.83	1	90.8	0.2	0.33	1.03	0.5	0.20	0.24	142	<1	11.4	1.18	118
0968067		14.7	1.97	1	104.5	0.2	0.36	1.16	<0.5	0.17	0.29	123	<1	11.0	1.06	178
0968068		0.4	24.3	5	2.2	1.6	3.52	5.98	<0.5	1.88	1.56	24	1	108.0	12.00	526
0968069		28.8	8.33	2	71.7	1.1	1.73	3.07	<0.5	1.22	0.72	75	<1	70.0	7.77	90
0968070		12.4	8.02	2	80.1	1.1	1.49	3.69	<0.5	1.00	0.88	84	<1	59.0	6.43	132
0968071		5.3	2.30	1	133.0	0.2	0.50	0.53	<0.5	0.30	0.14	236	<1	18.2	2.01	118
0968072		8.0	1.93	<1	96.7	0.1	0.40	0.37	<0.5	0.26	0.09	216	<1	15.5	1.77	119
0968073		2.0	2.11	<1	190.5	0.2	0.45	0.39	<0.5	0.28	0.10	224	<1	16.5	1.79	89
0968074		0.7	4.17	1	49.5	0.4	0.90	1.13	<0.5	0.55	0.29	255	<1	32.4	3.46	296
0968075		46.7	2.74	1	60.6	0.3	0.45	1.15	0.7	0.24	0.27	121	<1	14.9	1.47	169
0968076		11.5	10.60	3	35.3	1.4	2.16	4.88	<0.5	1.38	1.21	85	<1	78.2	8.77	237
0968077		8.4	3.53	1	34.5	0.4	0.71	1.12	<0.5	0.48	0.25	222	<1	28.1	3.14	376
0968078		67.1	1.46	49	5.0	0.3	0.26	1.22	1.4	0.11	0.28	61	2	7.5	0.70	8420
0968079		0.4	7.95	6	2.4	1.4	1.66	4.66	<0.5	1.19	1.17	10	<1	72.5	8.26	365
0968080		6.0	10.70	3	96.1	1.8	2.32	3.79	<0.5	1.58	0.91	43	1	92.7	10.90	71
0968081		0.4	8.89	2	32.1	1.1	1.38	4.07	<0.5	0.87	0.88	82	1	51.8	5.91	216

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MATAGAMI QC J0Y 2A0

Finalisée date: 10-NOV-2010
Compte: NORMAT

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CERTIFICAT D'ANALYSE VO10153271

Description échantillon	Méthode élément unités L.D.	ME-MS81 Zr ppm 2
0968051		204
0968052		120
0968053		103
0968054		148
0968055		102
0968056		106
0968057		75
0968058		408
0968059		73
0968060		35
0968061		61
0968062		58
0968063		178
0968064		240
0968065		163
0968066		72
0968067		81
0968068		401
0968069		183
0968070		227
0968071		61
0968072		48
0968073		54
0968074		121
0968075		111
0968076		237
0968077		108
0968078		83
0968079		315
0968080		227
0968081		227

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CERTIFICAT VO10163529

Projet: 642

Bon de commande #:

Ce rapport s'applique aux 41 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 4-NOV-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
PUL-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
ME-MS81	Fusion 38 éléments ICP-MS	ICP-MS
Cu-AA45	Trace Cu-Digestion Aqua regia	AAS
Zn-AA45	Trace Zn - Aqua regia /AAS	AAS
ME-XRF06	Roche totale - XRF	XRF
OA-GRA06	Perte par calcination pour ME-XRF06	WST-SIM
ME-XRF05	Analyse XRF de degré trace	XRF
Cu-AA62	Teneur marchande Cu - quatre acides / AAS	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICAT D'ANALYSE VO10163529

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Cu-AA45 Cu ppm 1	Cu-AA62 Cu % 0.001	Zn-AA45 Zn ppm 1	ME-XRF06 SiO2 % 0.01	ME-XRF06 Al2O3 % 0.01	ME-XRF06 Fe2O3 % 0.01	ME-XRF06 MgO % 0.01	ME-XRF06 CaO % 0.01	ME-XRF06 Na2O % 0.01	ME-XRF06 K2O % 0.01	ME-XRF06 TiO2 % 0.01	ME-XRF06 P2O5 % 0.001	ME-XRF06 MnO % 0.01	ME-XRF05 Ba ppm 10
J745500		0.16	43		37	64.72	8.98	13.85	0.60	0.01	0.05	2.80	0.24	0.023	0.01	300
J745501		0.23	32		243	43.14	15.65	20.21	11.45	0.36	0.01	0.02	0.74	0.045	0.12	10
J745502		0.15	97		270	47.85	12.18	14.84	6.45	7.80	0.03	1.08	1.33	0.111	0.28	120
J745503		0.24	14		379	31.67	16.20	16.30	16.08	5.73	0.01	0.01	1.16	1.017	0.22	10
J745504		0.46	35		157	49.73	15.83	8.22	4.65	6.56	1.02	2.58	0.73	0.161	0.13	400
J745505		0.44	25		149	63.83	13.81	7.42	2.28	2.54	2.67	1.54	0.66	0.180	0.13	250
J745506		0.16	9		413	39.99	11.16	10.66	10.36	11.18	0.02	0.03	0.78	0.710	0.60	10
J745507		0.24	470		289	27.00	17.22	27.00	16.28	0.86	0.01	0.01	0.08	0.560	0.11	20
J745508		0.30	7600	0.935	324	14.00	0.39	66.20	6.41	2.63	0.05	0.02	<0.01	0.075	0.22	40
J745509		0.55	48		93	65.80	11.92	7.05	2.00	2.60	4.11	0.19	0.92	0.193	0.08	60
J745510		0.38	26		156	55.25	12.53	14.44	2.25	5.20	1.78	0.61	1.17	0.268	0.20	140
J745511		0.40	9		423	49.21	15.35	14.45	7.90	2.18	0.03	1.73	1.46	0.177	0.26	370
J745512		0.23	31		195	40.37	12.26	12.44	12.14	9.05	0.02	0.04	0.87	0.737	0.32	10
J745513		0.45	16		75	64.73	11.26	7.90	2.57	3.12	3.56	0.08	1.02	0.210	0.08	30
J745514		0.49	174		96	47.00	13.63	13.97	6.17	7.45	2.67	0.36	0.92	0.105	0.17	80
J745515		0.45	72		153	48.29	12.37	17.95	10.45	1.63	0.02	0.01	1.28	0.113	0.13	10
J745516		0.48	737		104	53.63	10.86	18.03	8.11	1.75	<0.01	0.01	0.67	0.104	0.12	10
J745517		0.53	19		129	63.08	13.91	7.44	3.16	1.97	2.84	1.30	0.70	0.176	0.06	220
J745518		0.44	31		97	63.97	13.52	6.11	1.91	3.65	3.02	1.56	0.65	0.181	0.09	300
J745519		0.37	60		201	52.75	14.60	8.34	5.42	4.98	2.90	1.00	0.75	0.177	0.12	250
J745520		0.35	50		147	49.69	14.76	13.66	3.41	5.13	4.92	0.05	1.27	0.174	0.15	50
J745521		0.51	27		111	63.81	13.66	6.51	2.42	2.80	4.38	0.57	0.63	0.172	0.06	160
0968082		0.39	100		93	48.00	15.53	13.32	7.32	5.94	3.08	0.12	1.00	0.094	0.20	60
0968083		0.45	139		82	46.73	19.40	8.87	6.41	4.89	5.61	0.35	0.58	0.056	0.14	80
0968084		0.21	24		1530	49.69	13.55	19.73	6.58	1.29	0.07	0.54	1.40	0.144	0.14	100
0968085		0.26	149		2630	52.59	12.84	16.18	6.84	1.02	0.11	1.12	1.31	0.116	0.17	370
0968086		0.44	10		367	54.49	12.30	18.26	6.82	0.15	0.02	0.01	0.59	0.104	0.47	10
0968087		0.41	22		150	51.77	14.67	7.85	4.89	7.06	2.82	1.04	0.77	0.173	0.13	180
0968088		0.52	74		84	45.43	17.80	13.24	6.55	7.93	2.43	0.41	1.14	0.113	0.19	110
0968089		0.53	100		70	46.09	13.74	10.97	6.91	10.14	2.80	0.20	0.81	0.076	0.18	60
0968090		0.48	19		104	62.48	14.33	7.59	2.54	3.07	4.62	0.59	0.72	0.192	0.08	200
0968091		0.15	25		363	44.25	11.08	24.88	8.47	0.14	0.02	0.01	0.55	0.091	0.26	10
0968092		0.18	25		452	26.65	19.97	22.36	18.43	0.02	<0.01	<0.01	1.19	0.018	0.23	10
0968093		0.22	182		145	53.75	16.53	7.52	4.54	4.48	2.27	2.47	0.88	0.096	0.10	390
0968094		0.13	27		524	28.05	18.47	24.22	16.37	0.74	0.04	0.03	0.55	0.038	0.14	20
0968095		0.43	9		76	66.09	10.88	8.17	2.44	2.76	3.24	0.06	0.94	0.195	0.08	40
0968096		0.50	15		50	49.67	14.15	11.60	6.38	10.53	2.30	0.16	0.88	0.080	0.18	50
0968097		0.45	90		56	47.94	14.71	11.32	5.78	10.17	2.53	0.21	0.96	0.083	0.17	70
0968098		0.40	136		70	47.84	13.68	10.62	6.50	9.87	2.53	0.04	0.80	0.071	0.16	20
0968099		0.45	84		161	47.91	13.09	14.05	5.68	7.87	1.56	0.18	1.33	0.119	0.23	40

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À: XSTRATA ZINC CANADA EXPLORATION
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Finalisée date: 29-NOV-2010
Compte: NORMAT

Projet: 642

CERTIFICAT D'ANALYSE VO10163529

Description échantillon	Méthode élément unités L.D.	ME-XRF05 Sr ppm 2	ME-XRF06 Cr2O3 % 0.01	ME-XRF06 LOI % 0.01	ME-XRF06 Total % 0.01	ME-XRF05 Zr ppm 2	ME-XRF05 Y ppm 2	ME-XRF05 Nb ppm 2	ME-XRF05 Rb ppm 2	ME-MS81 Ag ppm 1	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Co ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Cu ppm 5
J745500		6	0.01	7.81	99.14	244	60	11	78	<1	275	40.6	14.9	10	0.50	39
J745501		4	0.01	6.92	98.67	342	65	17	2	<1	3.4	78.0	69.9	30	0.15	29
J745502		50	0.01	6.15	98.13	92	39	5	27	<1	112.0	18.0	43.3	60	0.34	97
J745503		117	0.10	10.40	98.92	262	30	7	<2	<1	3.1	157.0	48.9	870	0.12	8
J745504		62	0.01	8.50	98.18	94	23	4	58	<1	362	18.6	32.5	50	0.77	34
J745505		56	<0.01	3.26	98.36	230	63	14	40	<1	218	49.4	10.8	10	0.39	23
J745506		176	0.05	12.65	98.21	184	22	5	<2	<1	9.7	140.0	40.2	550	0.09	<5
J745507		4	0.01	9.12	98.27	18	366	<2	41	10	0.9	1755	4.5	<10	0.04	466
J745508		12	0.02	8.20	98.23	<2	44	<2	37	2	6.2	123.5	98.7	<10	0.03	4110
J745509		78	<0.01	3.39	98.27	334	152	32	4	<1	46.8	86.2	11.9	<10	0.06	102
J745510		54	<0.01	4.67	98.40	235	69	11	15	<1	119.5	59.1	21.9	<10	0.17	22
J745511		9	0.01	5.81	98.61	128	37	5	78	<1	323	20.6	30.4	40	0.44	<5
J745512		157	0.05	11.30	99.62	195	20	5	2	<1	10.0	151.0	38.2	490	0.09	28
J745513		83	<0.01	4.22	98.77	301	131	28	2	<1	33.3	78.2	10.8	10	0.06	13
J745514		73	0.03	7.63	100.15	77	27	3	9	<1	70.3	12.0	40.7	230	0.25	165
J745515		9	0.01	5.92	98.17	90	33	5	<2	<1	1.6	14.7	40.6	60	0.18	64
J745516		13	0.01	4.97	98.26	102	11	4	<2	<1	1.8	15.7	64.7	<10	0.16	723
J745517		48	<0.01	3.48	98.16	230	69	16	29	<1	203	52.4	15.2	20	0.29	14
J745518		77	<0.01	4.44	99.14	222	60	13	34	<1	268	50.7	8.8	10	0.30	30
J745519		96	0.01	7.61	98.70	101	21	4	25	<1	235	31.7	30.7	130	0.35	39
J745520		153	0.01	5.01	98.25	124	43	7	<2	1	46.4	22.5	29.7	30	0.04	41
J745521		64	<0.01	3.34	98.38	220	59	14	13	<1	133.5	41.7	8.2	10	0.14	19
0968082		157	0.04	3.70	98.36	73	22	3	2	<1	44.8	12.6	50.5	360	0.15	97
0968083		121	0.02	5.24	98.32	39	11	2	9	<1	64.8	7.7	42.5	160	0.19	141
0968084		3	0.01	5.32	98.48	154	73	11	221	<1	72.1	28.1	36.0	50	0.18	17
0968085		5	0.01	6.26	98.61	105	39	6	443	1	315	24.6	56.0	70	0.31	146
0968086		2	0.01	4.92	98.14	118	10	4	2	<1	1.5	30.4	16.7	40	0.06	<5
0968087		118	0.01	7.93	99.14	102	15	4	26	<1	170.5	16.6	28.2	100	0.37	17
0968088		164	0.04	4.21	99.51	82	25	3	7	<1	99.3	13.4	45.7	300	0.17	69
0968089		108	0.04	6.42	98.40	54	18	3	3	<1	58.9	9.1	42.8	350	0.19	94
0968090		75	<0.01	2.80	99.04	247	69	16	18	1	189.5	58.4	14.4	20	0.17	16
0968091		2	0.01	8.51	98.27	127	8	4	2	<1	1.0	18.3	9.5	10	0.03	18
0968092		2	0.01	9.54	98.43	267	12	7	<2	<1	1.3	9.6	0.9	10	0.63	18
0968093		72	0.01	5.61	98.32	86	22	3	56	<1	362	15.2	28.3	80	0.78	178
0968094		4	0.01	9.58	98.25	481	105	22	5	1	7.0	109.5	3.5	<10	0.40	25
0968095		83	<0.01	3.60	98.48	297	141	28	<2	<1	34.6	85.2	13.3	<10	0.08	<5
0968096		145	0.03	2.79	98.77	65	19	3	2	<1	47.8	12.2	47.2	320	0.14	11
0968097		139	0.02	4.94	98.85	61	18	3	3	<1	55.3	11.1	48.6	220	0.15	90
0968098		117	0.04	8.03	100.20	50	16	2	<2	<1	17.3	9.4	42.2	360	0.14	138
0968099		77	0.01	8.16	100.20	90	32	5	6	<1	33.5	19.4	42.3	80	0.15	86

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Finalisée date: 29-NOV-2010
Compte: NORMAT

Projet: 642

CERTIFICAT D'ANALYSE VO10163529

Description échantillon	Méthode élément unités L.D.	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Mo ppm 2	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Ni ppm 5	ME-MS81 Pb ppm 5	ME-MS81 Pr ppm 0.03
J745500		8.36	5.33	1.71	13.0	6.57	7.3	1.77	18.9	0.78	<2	12.4	19.9	<5	57	4.74
J745501		12.15	8.14	2.74	32.2	10.25	10.4	2.62	42.7	1.22	9	18.4	38.2	16	6	8.94
J745502		5.71	3.60	1.26	16.6	4.32	2.9	1.24	8.2	0.55	<2	5.2	10.7	41	8	2.28
J745503		8.24	3.22	4.46	23.5	14.65	5.8	1.31	65.5	0.32	<2	9.3	81.7	230	<5	19.55
J745504		2.50	1.46	1.16	17.1	2.58	2.7	0.50	9.0	0.21	<2	3.9	10.1	106	<5	2.31
J745505		9.09	5.97	1.48	17.5	7.42	6.6	1.94	21.7	0.88	<2	14.2	25.4	17	12	5.94
J745506		6.27	2.58	7.20	13.8	12.65	4.3	1.01	60.8	0.25	<2	6.6	75.4	155	<5	17.30
J745507		103.0	39.1	27.7	44.4	202	0.9	15.70	780	3.22	56	0.9	1085	<5	146	243
J745508		11.00	3.78	3.20	10.2	24.9	0.2	1.57	52.1	0.29	14	<0.2	94.6	<5	129	19.05
J745509		20.9	13.90	2.52	19.1	17.70	10.3	4.52	35.1	2.05	<2	28.8	55.6	<5	<5	12.25
J745510		11.70	7.39	2.45	22.1	11.35	7.1	2.45	24.5	1.07	<2	12.0	40.0	<5	<5	8.54
J745511		5.41	3.51	1.46	21.4	4.82	4.0	1.14	8.1	0.55	<2	6.0	14.1	44	207	2.96
J745512		5.92	2.55	4.90	15.2	12.60	4.5	0.96	62.6	0.26	<2	6.8	88.4	143	6	20.9
J745513		20.9	14.25	2.71	21.1	17.00	10.3	4.51	32.2	2.13	<2	28.5	50.0	<5	<5	11.10
J745514		4.45	2.91	1.04	16.7	3.63	2.4	0.96	4.9	0.41	<2	3.7	8.6	84	<5	1.80
J745515		5.73	3.66	0.83	18.5	4.56	3.1	1.23	5.3	0.54	<2	5.3	10.6	39	<5	2.22
J745516		2.41	1.49	0.49	23.9	2.27	2.9	0.50	7.6	0.23	3	4.2	8.2	6	<5	1.98
J745517		10.60	7.09	1.59	20.0	9.21	7.1	2.31	22.6	1.07	<2	16.3	30.2	18	<5	7.02
J745518		8.84	5.92	1.37	19.0	7.85	6.5	1.91	23.0	0.88	<2	13.5	27.9	14	<5	6.62
J745519		3.37	1.76	1.33	16.0	4.54	2.6	0.63	15.1	0.23	<2	4.1	17.4	126	10	4.04
J745520		7.25	4.62	1.62	22.5	6.17	3.9	1.52	9.1	0.68	<2	7.0	16.2	16	<5	3.35
J745521		8.95	6.16	1.46	18.4	7.43	6.4	1.94	18.3	0.93	<2	14.3	24.0	17	<5	5.70
0968082		3.89	2.55	1.00	18.5	3.39	2.3	0.85	5.5	0.38	<2	3.1	9.1	80	<5	1.82
0968083		1.89	1.14	0.74	15.3	1.88	1.4	0.38	3.5	0.16	<2	1.9	5.4	140	5	1.11
0968084		10.55	7.29	3.79	19.7	8.11	4.8	2.32	11.4	1.07	<2	10.3	20.2	30	1055	4.21
0968085		7.22	4.45	1.96	19.2	6.24	3.3	1.51	10.2	0.62	<2	6.2	16.8	43	2110	3.51
0968086		2.47	1.43	1.81	14.2	2.73	3.4	0.48	15.2	0.18	<2	4.5	13.4	26	6	3.37
0968087		2.34	1.41	1.10	15.9	2.64	2.6	0.48	7.5	0.20	<2	4.0	9.5	106	13	2.24
0968088		4.05	2.58	1.05	20.4	3.50	2.4	0.89	5.5	0.37	<2	3.4	9.4	72	<5	1.97
0968089		2.98	1.92	0.68	14.5	2.46	1.8	0.64	3.8	0.28	<2	2.4	6.5	81	<5	1.35
0968090		11.15	7.34	1.62	21.4	9.70	7.5	2.38	25.3	1.03	<2	16.5	33.1	19	22	7.83
0968091		2.06	1.35	0.69	15.1	1.95	3.5	0.43	8.1	0.20	<2	4.8	9.0	8	10	2.27
0968092		3.91	2.59	0.70	33.4	2.38	6.3	0.86	5.1	0.43	<2	8.7	5.1	<5	<5	1.14
0968093		2.36	1.54	0.52	17.2	2.14	2.5	0.50	7.2	0.21	<2	4.9	7.6	81	<5	1.75
0968094		19.15	12.90	2.26	23.2	15.65	13.2	4.07	47.8	2.05	2	25.7	62.7	<5	22	14.15
0968095		21.7	14.90	2.35	22.5	16.10	9.6	4.74	36.3	2.35	<2	30.6	51.6	<5	<5	11.35
0968096		3.26	2.12	0.79	20.2	2.57	2.2	0.69	5.1	0.31	<2	3.0	7.4	101	<5	1.64
0968097		3.31	2.19	0.81	18.5	2.59	1.9	0.71	4.8	0.32	<2	2.9	7.4	77	<5	1.56
0968098		2.76	1.80	0.80	16.8	2.23	1.6	0.59	4.1	0.27	<2	2.4	6.1	88	<5	1.32
0968099		5.96	3.73	1.27	20.8	4.64	3.1	1.21	7.9	0.56	<2	5.4	12.3	43	9	2.72

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CERTIFICAT D'ANALYSE VO10163529

Description échantillon	Méthode élément unités L.D.	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tl ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	ME-MS81 Zn ppm 5
J745500		61.2	5.00	3	4.2	0.9	1.34	2.84	1.0	0.79	0.78	8	4	44.4	5.26	35
J745501		0.5	9.33	3	3.7	1.3	1.92	3.94	<0.5	1.24	1.18	118	2	66.0	8.09	248
J745502		24.3	3.09	3	48.7	0.4	0.87	0.66	0.6	0.54	0.16	287	2	30.6	3.62	265
J745503		0.3	16.50	18	114.5	0.6	1.91	8.34	<0.5	0.38	2.08	232	2	33.3	2.26	392
J745504		58.8	2.34	2	59.0	0.4	0.44	0.86	0.9	0.20	0.22	128	1	12.6	1.31	150
J745505		37.8	6.33	2	54.3	1.1	1.43	3.03	0.6	0.89	0.81	75	2	50.4	5.89	141
J745506		0.9	15.20	6	179.5	0.4	1.53	5.83	<0.5	0.29	1.34	168	2	25.8	1.80	421
J745507		0.3	283	9	6.3	0.1	24.4	0.49	<0.5	4.44	12.00	75	1	319	26.7	250
J745508		0.3	32.0	15	9.1	<0.1	2.80	<0.05	<0.5	0.40	3.54	8	1	31.1	2.37	296
J745509		3.6	15.95	5	69.8	2.0	3.22	4.85	<0.5	2.04	1.40	32	1	117.0	13.75	86
J745510		15.8	10.80	2	54.8	0.8	1.89	2.07	<0.5	1.07	0.56	25	2	60.9	7.14	159
J745511		45.7	4.08	4	8.2	0.4	0.84	1.20	0.8	0.51	0.36	257	2	29.4	3.45	446
J745512		1.0	17.05	2	160.0	0.4	1.41	7.06	<0.5	0.30	1.72	161	2	24.2	1.74	195
J745513		1.7	14.50	3	83.2	1.9	3.24	4.71	<0.5	2.12	1.17	41	1	116.5	14.05	75
J745514		9.3	2.87	1	72.2	0.3	0.66	0.63	<0.5	0.41	0.30	203	1	23.7	2.71	96
J745515		0.2	3.50	2	8.1	0.3	0.90	0.79	<0.5	0.53	0.22	281	1	29.7	3.55	153
J745516		0.2	2.04	3	12.5	0.3	0.39	1.34	<0.5	0.21	0.34	125	1	12.8	1.45	98
J745517		32.2	7.93	3	47.8	1.2	1.65	3.81	<0.5	1.05	0.88	78	1	59.0	6.90	128
J745518		35.6	6.92	2	75.5	1.0	1.37	3.47	<0.5	0.87	0.80	72	1	50.0	5.58	100
J745519		24.8	4.27	1	95.8	0.3	0.63	1.00	<0.5	0.23	0.23	107	1	17.0	1.41	184
J745520		0.9	5.19	1	152.5	0.5	1.12	1.06	<0.5	0.66	0.26	162	2	39.3	4.39	152
J745521		14.0	6.45	4	62.8	1.1	1.35	3.45	<0.5	0.92	0.82	68	1	52.3	6.07	112
0968082		2.0	2.76	1	161.5	0.2	0.62	0.52	<0.5	0.37	0.28	279	2	20.6	2.28	116
0968083		9.2	1.59	<1	122.5	0.1	0.31	0.28	<0.5	0.16	0.07	128	1	9.5	1.09	87
0968084		12.6	6.63	17	2.3	0.7	1.60	1.56	<0.5	1.09	0.42	262	2	60.8	7.00	1415
0968085		29.2	5.23	15	4.4	0.4	1.16	0.86	0.7	0.65	0.22	280	1	39.4	4.18	2370
0968086		<0.2	2.61	4	2.2	0.3	0.43	1.56	<0.5	0.19	0.37	64	2	13.0	1.30	366
0968087		24.3	2.41	1	119.0	0.3	0.41	0.98	<0.5	0.20	0.23	110	1	12.1	1.28	156
0968088		7.1	2.94	1	168.0	0.2	0.62	0.56	<0.5	0.38	0.14	266	1	21.9	2.45	99
0968089		3.1	1.97	1	108.5	0.2	0.45	0.38	<0.5	0.28	0.09	213	1	15.4	1.79	89
0968090		15.2	8.34	4	78.3	1.3	1.73	4.01	<0.5	1.08	0.95	81	2	63.2	6.97	107
0968091		<0.2	1.90	5	1.2	0.3	0.33	1.74	<0.5	0.19	0.40	43	2	10.9	1.34	374
0968092		0.6	1.55	28	1.6	0.7	0.53	3.40	<0.5	0.42	0.90	109	1	23.8	2.70	507
0968093		55.5	1.91	2	69.3	0.4	0.40	1.32	0.8	0.21	0.31	156	2	12.7	1.44	140
0968094		1.0	15.85	40	4.7	1.9	2.72	6.66	<0.5	2.06	1.74	21	1	116.0	13.25	593
0968095		1.4	14.05	4	94.1	2.1	3.06	4.67	<0.5	2.38	1.19	50	1	136.0	15.35	86
0968096		2.4	2.11	1	161.5	0.2	0.48	0.55	<0.5	0.30	0.19	249	1	19.4	2.01	98
0968097		3.6	2.23	1	157.0	0.2	0.49	0.47	<0.5	0.32	0.29	268	1	19.5	2.11	83
0968098		0.6	1.82	1	133.0	0.2	0.42	0.38	<0.5	0.27	0.10	232	1	16.8	1.71	80
0968099		5.5	3.68	1	89.1	0.4	0.86	0.75	<0.5	0.57	0.19	326	2	33.8	3.65	185

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À: XSTRATA ZINC CANADA EXPLORATION
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Finalisée date: 29-NOV-2010
Compte: NORMAT

Projet: 642

CERTIFICAT D'ANALYSE VO10163529

Description échantillon	Méthode élément unités L.D.	ME-MS81 Zr ppm 2
J745500		241
J745501		345
J745502		94
J745503		252
J745504		101
J745505		227
J745506		182
J745507		24
J745508		9
J745509		298
J745510		249
J745511		143
J745512		197
J745513		304
J745514		85
J745515		107
J745516		113
J745517		245
J745518		231
J745519		107
J745520		128
J745521		227
0968082		80
0968083		54
0968084		155
0968085		112
0968086		128
0968087		107
0968088		84
0968089		62
0968090		262
0968091		138
0968092		239
0968093		90
0968094		430
0968095		277
0968096		81
0968097		68
0968098		60
0968099		109

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CERTIFICAT D'ANALYSE VO10163529

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Cu-AA45 Cu ppm 1	Cu-AA62 Cu % 0.001	Zn-AA45 Zn ppm 1	ME-XRF06 SiO2 % 0.01	ME-XRF06 Al2O3 % 0.01	ME-XRF06 Fe2O3 % 0.01	ME-XRF06 MgO % 0.01	ME-XRF06 CaO % 0.01	ME-XRF06 Na2O % 0.01	ME-XRF06 K2O % 0.01	ME-XRF06 TiO2 % 0.01	ME-XRF06 P2O5 % 0.001	ME-XRF06 MnO % 0.01	ME-XRF05 Ba ppm 10
0968100		0.49	8		93	63.00	12.88	9.65	3.23	1.22	3.48	0.28	1.28	0.254	0.09	70

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CERTIFICAT D'ANALYSE VO10163529

Description échantillon	Méthode élément unités L.D.	ME-XRF05 Sr ppm 2	ME-XRF06 Cr2O3 % 0.01	ME-XRF06 LOI % 0.01	ME-XRF06 Total % 0.01	ME-XRF05 Zr ppm 2	ME-XRF05 Y ppm 2	ME-XRF05 Nb ppm 2	ME-XRF05 Rb ppm 2	ME-MS81 Ag ppm 1	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Co ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Cu ppm 5
0968100		47	<0.01	3.14	98.52	386	201	38	6	<1	63.7	101.0	16.3	<10	0.13	5

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CERTIFICAT D'ANALYSE VO10163529

Description échantillon	Méthode élément unités L.D.	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Mo ppm 2	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Ni ppm 5	ME-MS81 Pb ppm 5	ME-MS81 Pr ppm 0.03
0968100		32.3	22.2	3.11	29.0	22.4	12.8	7.09	41.7	3.40	<2	42.5	64.4	<5	<5	13.80

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Description échantillon	Méthode élément unités L.D.	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tl ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	ME-MS81 Zn ppm 5
0968100		7.6	18.45	9	58.0	2.8	4.45	6.19	<0.5	3.48	1.57	56	1	198.5	22.0	117

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CERTIFICAT D'ANALYSE VO10163529

Description échantillon	Méthode élément unités L.D.	ME-MS81 Zr ppm 2
0968100		377

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Page: 1
Finalisée date: 6-MAI-2010
Cette copie a fait un rapport sur
15-JANV-2013
Compte: NORMAT

CERTIFICAT VO10009949

Projet: 641

Bon de commande #:

Ce rapport s'applique aux 31 échantillions de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-JANV-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	MÉLANIE GAGNON	GILLES ROY

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
Au-AA23	Au 30 g fini FA-AA	AAS
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillions soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

Commentaire: **CORRECTED COPY FOR ME-MS61 ON SAMPLES 0969017 TO 0969021.**

Signature: Nacera Amara

Nacera Amara, Laboratory Manager, Val d'Or

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Finalisée date: 6-MAI-2010
Compte: NORMAT

Projet: 641

CERTIFICAT D'ANALYSE VO10009949

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02
0969001		1.99	<0.005	1.5	0.008	0.002	0.180	2.94	0.85	6.88	45.4	<10	0.31	0.29	1.28	2.95
0969002		1.32	0.093	34.8	0.122	0.022	3.52	3.82	37.7	1.45	351	80	1.04	16.10	1.54	78.6
0969003		5.31	0.072	11.0	0.915	0.015	1.545	4.71	13.05	0.10	489	10	0.31	9.42	0.20	32.4
0969004		4.87	0.073	12.0	0.720	0.011	0.22	4.58	13.60	0.17	381	<10	0.54	7.71	0.05	123.5
0969005		5.03	0.072	5.3	0.214	0.020	4.11	4.67	5.61	0.07	492	<10	0.27	2.93	0.10	80.4
0969006		4.90	0.095	12.8	0.562	0.027	2.60	4.63	14.80	0.11	507	<10	0.24	6.04	0.43	49.5
0969007		4.40	0.101	19.2	0.732	0.029	2.35	4.58	21.2	0.07	551	<10	0.18	6.70	1.03	42.3
0969008		4.78	0.042	20.1	1.195	0.022	0.655	4.26	22.9	0.07	389	<10	0.36	61.3	2.33	11.25
0969009		4.09	0.056	32.3	1.930	0.024	2.49	4.15	37.3	0.04	288	<10	0.71	155.5	1.37	51.8
0969010		2.16	0.037	32.2	0.243	0.030	2.21	4.68	32.5	0.07	358	<10	0.38	2.11	0.75	45.1
0969011		3.04	<0.005	0.4	0.017	0.013	0.067	2.79	0.34	5.31	16.6	20	0.97	0.58	9.35	0.72
0969012		1.73	<0.005	0.3	0.010	0.008	0.038	2.80	0.19	5.30	14.9	10	0.91	0.53	9.26	0.19
0969013		5.34	0.031	6.9	0.113	0.031	2.44	4.74	7.80	0.09	516	<10	0.08	0.40	0.45	49.1
0969014		4.77	0.037	6.5	0.090	0.037	3.42	4.67	7.69	0.05	633	<10	<0.05	0.46	1.33	70.2
0969015		4.69	0.048	6.7	0.062	0.038	0.365	4.37	7.93	0.03	864	<10	<0.05	1.43	4.07	7.42
0969016		4.45	0.044	7.8	0.070	0.040	1.085	4.63	8.76	0.04	749	<10	0.07	1.65	3.17	22.2
0969017		0.07	0.085	10.2	0.388	0.033	10.10		13.45	0.14	112.5	10	0.13	0.34	0.12	205
0969018		0.53	<0.005	0.5	0.002	0.002	0.036	2.76	0.13	8.01	7.2	350	0.84	0.11	3.01	0.78
0969019		4.57	0.027	3.7	0.082	0.021	1.875	4.48	3.78	0.09	622	10	0.11	0.78	2.79	38.9
0969020		4.29	0.029	8.6	0.060	0.018	4.34	4.14	7.44	0.06	443	10	0.13	1.83	3.33	92.2
0969021		4.51	0.049	8.4	0.138	0.027	2.79	4.63	13.15	0.05	514	10	0.08	1.15	1.32	71.2
0969022		4.82	0.101	9.2	0.231	0.026	6.23	4.69	10.45	0.02	488	<10	<0.05	0.84	1.29	163.0
0969023		4.64	0.068	7.5	0.363	0.023	3.51	4.69	8.28	0.01	526	<10	0.07	0.80	0.89	81.7
0969024		4.42	0.117	14.2	0.284	0.024	3.67	4.70	14.50	0.03	348	10	0.06	0.92	0.89	80.6
0969025		4.73	0.137	8.5	0.395	0.023	4.97	4.73	9.26	0.04	453	10	<0.05	0.23	0.29	116.5
0969026		5.13	0.098	15.6	0.330	0.028	4.06	4.68	17.00	0.42	317	10	<0.05	0.38	0.43	102.0
0969027		1.28	0.015	2.1	0.012	0.008	0.942	3.11	1.98	6.93	82.4	<10	0.18	0.40	0.08	22.6
0969028		1.90	0.125	9.3	0.223	0.017	1.855	4.11	13.85	2.12	492	<10	0.17	2.43	0.02	48.0
0969029		2.24	0.071	2.8	0.289	0.009	1.990	3.36	2.84	2.22	208	<10	0.24	2.60	0.03	54.6
0969030		1.90	0.053	3.2	0.569	0.009	1.165	3.42	2.70	2.64	181.0	<10	0.39	1.60	0.05	33.1
0969031		5.15	0.224	6.4	1.260	0.027	0.405	4.27	6.75	0.26	285	10	0.11	2.69	0.46	12.15

Commentaire: **CORRECTED COPY FOR ME-MS61 ON SAMPLES 0969017 TO 0969021.**

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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Finalisée date: 6-MAI-2010
Compte: NORMAT

Projet: 641

CERTIFICAT D'ANALYSE VO10009949

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ce ppm 0.01	ME-MS61 Cs ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5
0969001		16.60	65.7	61	0.07	81.8	14.50	41.2	0.36	3.3	1.065	0.01	6.2	3.9	5.01	3540
0969002		11.85	542	12	1.40	1165	30.2	34.8	0.65	0.8	26.5	0.13	5.3	0.4	1.01	1820
0969003		2.99	256	3	0.85	9250	42.6	24.3	0.87	0.1	10.70	0.06	1.4	0.2	0.21	540
0969004		5.17	344	2	0.69	7370	40.4	60.5	0.86	0.1	29.3	0.05	2.4	0.3	0.50	534
0969005		4.27	184.5	3	0.35	2050	38.7	31.1	0.76	<0.1	18.95	0.02	2.0	0.2	0.34	615
0969006		8.66	663	2	0.29	5560	42.3	52.8	0.97	0.1	14.00	0.01	4.3	0.3	0.34	962
0969007		7.88	732	<1	0.19	7030	39.8	28.4	0.91	<0.1	15.60	0.01	3.9	0.2	0.52	1080
0969008		13.00	794	1	0.09	>10000	41.4	38.7	0.99	<0.1	10.45	<0.01	6.3	0.3	1.07	2030
0969009		33.5	528	1	0.21	>10000	38.6	77.7	0.96	0.1	22.0	0.02	16.4	1.1	2.12	1680
0969010		6.24	194.5	3	0.31	2380	41.2	35.2	0.81	0.1	16.00	0.02	2.9	0.2	0.54	647
0969011		129.0	44.8	426	0.19	155.5	6.52	16.40	0.24	3.6	0.269	0.04	53.8	9.4	6.48	2560
0969012		116.0	61.1	521	0.09	78.6	6.66	16.55	0.22	3.7	0.121	0.01	48.8	4.3	7.73	2380
0969013		2.76	41.2	7	0.31	1095	41.0	30.9	0.84	<0.1	13.20	0.01	1.3	0.2	0.18	601
0969014		2.47	45.9	3	0.31	871	40.8	20.7	0.83	<0.1	16.15	0.01	1.2	0.2	0.18	1020
0969015		6.01	32.3	1	0.34	604	37.9	7.49	0.85	<0.1	1.575	0.01	3.3	0.2	0.28	2340
0969016		3.52	38.9	1	0.35	660	38.2	11.15	0.88	<0.1	2.66	0.02	1.9	0.2	0.31	1860
0969017		8.90	144.5	43	<0.05	>10000	46.8	52.6	2.99	0.2	26.1	0.01	3.6	0.3	1.19	184
0969018		21.3	11.1	29	0.60	37.4	3.07	22.6	0.13	1.6	0.151	0.98	9.3	11.2	1.03	398
0969019		2.12	9.8	<1	0.49	908	42.3	38.0	0.84	<0.1	6.15	0.04	1.1	0.3	0.57	2160
0969020		4.56	33.2	13	0.40	610	35.5	35.9	0.55	<0.1	22.7	0.02	2.5	0.4	1.36	2900
0969021		3.04	65.7	<1	0.50	1520	42.3	33.3	0.72	0.1	28.4	0.02	1.7	0.4	0.31	1140
0969022		2.00	117.0	3	0.18	2400	39.0	35.3	0.98	<0.1	65.3	0.01	1.2	0.2	0.12	843
0969023		1.28	123.0	2	0.11	3700	40.6	18.95	0.98	<0.1	17.05	<0.01	0.8	0.2	0.23	778
0969024		2.12	206	<1	0.18	2860	39.8	23.4	0.90	<0.1	23.8	0.01	1.1	<0.2	0.30	1180
0969025		0.72	101.0	7	0.21	3970	38.8	9.35	0.90	<0.1	71.2	0.01	<0.5	0.2	0.08	646
0969026		5.09	64.3	6	0.31	3450	39.0	58.7	1.05	0.4	74.8	0.02	2.8	0.2	0.26	766
0969027		16.35	59.5	38	0.11	124.5	20.9	83.5	0.50	3.8	8.55	0.01	8.2	3.8	3.34	4220
0969028		30.0	155.5	12	0.06	2210	34.2	47.5	0.86	1.3	22.6	<0.01	13.8	0.6	1.06	1380
0969029		52.5	147.0	18	0.06	2890	20.9	45.4	0.61	1.2	20.7	<0.01	26.2	0.5	1.19	1290
0969030		100.5	130.5	12	0.61	5730	23.4	51.8	0.69	1.6	23.0	0.04	47.8	0.3	1.59	1280
0969031		17.30	355	8	0.36	>10000	36.8	9.93	0.96	0.2	18.55	0.03	7.8	0.2	0.25	934

Commentaire: **CORRECTED COPY FOR ME-MS61 ON SAMPLES 0969017 TO 0969021.**

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
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Finalisée date: 6-MAI-2010
Compte: NORMAT

Projet: 641

CERTIFICAT D'ANALYSE VO10009949

Description échantillon	Méthode élément unités L.D.	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05
0969001		0.94	<0.01	5.8	43.9	480	14.4	0.4	0.004	0.26	0.88	41.1	3	16.5	6.9	0.36
0969002		19.90	0.02	1.8	19.1	170	165.5	4.5	0.007	>10.0	17.60	9.3	30	6.2	11.8	0.10
0969003		2.30	0.01	0.6	9.6	20	136.5	2.4	0.003	>10.0	27.0	0.7	20	13.7	5.8	<0.05
0969004		7.13	0.01	0.6	7.1	30	116.0	2.2	0.004	>10.0	19.20	0.7	27	10.9	3.8	<0.05
0969005		1.27	<0.01	0.5	6.4	10	155.0	1.0	0.002	>10.0	21.4	0.4	19	10.5	1.8	<0.05
0969006		11.45	<0.01	0.7	9.3	20	233	0.8	0.005	>10.0	24.4	0.7	51	17.0	3.0	<0.05
0969007		8.02	<0.01	0.5	9.2	20	250	0.4	0.003	>10.0	25.3	0.5	68	20.3	6.6	<0.05
0969008		27.6	<0.01	0.6	8.6	40	179.5	0.1	0.010	>10.0	15.45	0.7	59	9.6	14.9	<0.05
0969009		23.7	<0.01	0.5	8.4	70	197.5	0.6	0.017	>10.0	9.48	2.3	72	11.4	11.1	<0.05
0969010		0.67	0.01	0.5	5.8	20	253	0.9	0.002	>10.0	17.35	0.3	43	16.3	6.5	<0.05
0969011		0.57	0.14	6.1	212	2860	94.6	1.5	<0.002	0.82	1.31	25.6	3	3.4	451	0.35
0969012		0.41	<0.01	6.0	277	2880	53.7	0.9	<0.002	0.58	0.93	27.8	2	3.0	216	0.33
0969013		0.95	<0.01	0.5	5.7	20	238	0.6	0.003	>10.0	31.5	0.3	30	12.5	4.2	<0.05
0969014		0.64	<0.01	0.5	5.5	10	319	0.5	0.004	>10.0	34.8	0.2	53	5.0	10.1	<0.05
0969015		1.07	<0.01	0.5	4.7	10	304	0.5	0.004	>10.0	36.0	0.2	49	4.2	31.7	<0.05
0969016		1.30	0.01	0.5	5.5	30	381	0.8	0.003	>10.0	28.6	0.3	64	5.8	20.7	<0.05
0969017		0.69	0.01	1.0	2.8	20	325	0.1	<0.002	>10.0	6.23	0.2	417	3.5	3.3	<0.05
0969018		0.13	3.34	3.4	22.8	410	7.8	26.8	<0.002	0.67	0.51	7.1	2	0.8	442	0.23
0969019		1.08	0.02	0.7	6.2	20	172.5	1.3	<0.002	>10.0	21.9	0.4	17	3.9	13.6	<0.05
0969020		0.64	0.01	0.3	7.4	40	161.5	0.9	<0.002	>10.0	17.35	0.2	46	5.9	14.2	<0.05
0969021		0.57	0.01	0.6	4.8	10	230	1.1	<0.002	>10.0	26.9	0.1	67	7.0	11.0	<0.05
0969022		0.45	<0.01	0.5	0.9	20	244	0.4	<0.002	>10.0	25.1	0.1	98	11.2	9.5	<0.05
0969023		0.41	<0.01	0.5	1.1	20	209	0.3	0.002	>10.0	24.8	0.1	85	5.9	5.8	<0.05
0969024		0.25	<0.01	0.2	2.7	10	198.0	0.8	<0.002	>10.0	20.5	<0.1	148	11.6	7.8	<0.05
0969025		0.29	0.01	0.3	1.1	<10	183.0	0.6	<0.002	>10.0	23.2	<0.1	148	15.6	3.8	<0.05
0969026		0.63	0.01	0.6	4.3	<10	219	0.9	<0.002	>10.0	19.65	0.6	195	18.9	6.2	<0.05
0969027		11.20	<0.01	4.9	29.8	60	31.1	0.3	0.002	6.82	2.85	13.3	12	4.4	1.4	0.35
0969028		42.5	<0.01	2.0	13.8	10	139.0	0.2	0.002	>10.0	13.00	3.6	32	3.1	0.7	0.12
0969029		13.40	<0.01	1.7	12.4	40	70.0	0.1	0.002	>10.0	6.40	3.5	29	3.2	0.6	0.11
0969030		10.65	0.01	2.4	11.4	60	68.6	1.6	0.002	>10.0	5.06	4.1	44	5.3	4.6	0.15
0969031		6.20	0.01	0.5	3.3	<10	216	1.2	<0.002	>10.0	20.8	0.2	176	10.2	6.7	<0.05

Commentaire: **CORRECTED COPY FOR ME-MS61 ON SAMPLES 0969017 TO 0969021.**

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Finalisée date: 6-MAI-2010
Compte: NORMAT

Projet: 641

CERTIFICAT D'ANALYSE VO10009949

Description échantillon	Méthode élément unités L.D.	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
0969001		0.85	0.8	0.730	<0.02	0.2	283	0.5	32.3	1640	96.5
0969002		39.2	0.4	0.159	1.28	0.4	83	0.8	12.2	>10000	25.6
0969003		16.85	<0.2	0.005	2.09	0.1	5	0.2	3.2	>10000	1.5
0969004		15.25	<0.2	0.010	3.10	0.2	6	0.3	3.9	>10000	3.8
0969005		6.22	<0.2	<0.005	5.04	0.1	2	0.3	2.7	>10000	1.3
0969006		30.6	<0.2	0.006	2.69	0.4	7	0.3	3.3	>10000	3.0
0969007		57.9	<0.2	<0.005	2.73	0.3	4	0.2	2.6	>10000	1.4
0969008		99.9	<0.2	<0.005	1.95	0.9	14	0.3	4.3	5230	0.6
0969009		244	<0.2	0.006	1.41	2.2	42	0.3	11.3	>10000	2.3
0969010		40.8	<0.2	<0.005	4.65	0.1	3	0.3	3.4	>10000	1.6
0969011		0.44	5.8	0.412	<0.02	1.3	145	0.4	22.2	479	158.0
0969012		0.40	5.6	0.419	<0.02	1.4	162	0.4	21.9	244	159.0
0969013		19.20	<0.2	<0.005	2.23	0.1	3	0.2	1.6	>10000	1.8
0969014		24.7	<0.2	<0.005	4.92	0.1	2	0.3	1.6	>10000	1.2
0969015		29.5	<0.2	<0.005	7.56	0.1	2	0.3	3.4	3480	0.8
0969016		46.6	<0.2	<0.005	7.65	0.1	1	0.4	2.8	9920	1.3
0969017		260	<0.2	<0.005	0.14	0.1	4	0.2	2.4	>10000	7.0
0969018		0.44	1.4	0.236	0.17	0.4	66	0.2	7.8	487	41.4
0969019		6.30	<0.2	<0.005	6.61	0.1	5	0.3	2.5	>10000	1.6
0969020		43.3	<0.2	<0.005	1.94	0.1	3	0.3	3.6	>10000	2.1
0969021		84.1	<0.2	<0.005	2.57	0.1	1	0.3	2.5	>10000	2.1
0969022		56.0	<0.2	<0.005	4.90	<0.1	1	0.2	1.5	>10000	<0.5
0969023		40.6	<0.2	<0.005	3.48	<0.1	1	0.1	1.3	>10000	<0.5
0969024		71.7	<0.2	<0.005	2.46	<0.1	2	0.2	1.6	>10000	0.6
0969025		43.7	<0.2	<0.005	1.44	<0.1	2	0.2	0.7	>10000	1.3
0969026		141.0	0.2	0.032	1.13	0.1	8	0.4	1.8	>10000	15.1
0969027		9.52	1.9	0.305	0.11	0.6	80	0.6	11.0	8580	130.0
0969028		50.2	0.6	0.100	0.85	0.3	22	0.8	5.3	>10000	45.1
0969029		28.9	0.7	0.097	0.24	0.3	26	0.5	6.3	>10000	43.6
0969030		33.1	0.8	0.131	0.18	0.6	31	1.0	12.1	>10000	57.3
0969031		172.0	<0.2	0.012	1.32	0.1	4	0.2	2.3	3830	6.4

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À: XSTRATA ZINC CANADA EXPLORATION
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MATAGAMI QC J0Y 2A0

Projet: 641

Page: Annexe 1
Total # les pages d'annexe: 1
Finalisée date: 6-MAI-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10009949

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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MATAGAMI QC J0Y 2A0

Finalisée date: 23-FEVR-2010
Compte: NORMAT

CERTIFICAT VO10014866

Projet: **MATAGAMI**

Bon de commande #:

Ce rapport s'applique aux 17 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 9-FEVR-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
ME-MS41	Aqua regia 51 éléments ICP-MS	
Au-AA23	Au 30 g fini FA-AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: **XSTRATA ZINC CANADA EXPLORATION MATAGAMI**
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

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Projet: MATAGAMI

Finalisée date: 23-FEVR-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10014866

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01
969032		4.93	0.163	8.1	0.588	0.034	0.772	7.89	0.12	350	<0.2	<10	10	<0.05	4.83	0.62
969033		4.89	0.306	20.9	3.27	0.025	0.662	21.9	0.12	337	<0.2	<10	<10	<0.05	2.68	0.45
969034		4.67	0.216	38.5	2.76	0.023	0.385	37.3	0.12	489	<0.2	<10	10	<0.05	1.94	1.02
969035		4.70	0.270	36.7	1.980	0.025	0.225	34.8	0.16	330	<0.2	<10	10	0.10	2.28	0.94
969036		5.08	0.260	24.1	1.000	0.016	0.367	24.1	1.03	317	<0.2	<10	10	0.12	1.22	0.84
969037		4.20	0.094	11.0	0.086	0.013	6.14	10.20	2.85	329	<0.2	<10	<10	<0.05	1.50	0.02
969038		4.73	0.087	15.4	0.078	0.013	2.85	15.00	1.68	347	<0.2	<10	<10	<0.05	2.61	0.03
969039		5.17	0.085	18.3	0.496	0.015	1.895	19.55	0.39	199.0	<0.2	<10	<10	<0.05	3.49	0.11
969040		4.15	0.140	22.4	1.075	0.030	1.165	26.2	0.48	198.5	<0.2	<10	10	<0.05	9.33	0.38
969041		0.05	0.074	9.8	0.956	0.029	9.95	11.15	0.08	80.3	<0.2	<10	<10	<0.05	0.35	0.10
969042		0.70	<0.005	0.3	0.010	0.001	0.021	0.19	1.34	1.7	<0.2	<10	40	0.15	0.09	1.35
969043		4.69	0.174	20.3	0.572	0.010	0.164	22.8	0.17	154.5	<0.2	<10	20	<0.05	3.73	0.74
969044		4.93	0.183	26.5	0.731	0.009	0.041	28.6	0.15	129.5	<0.2	<10	10	<0.05	2.82	0.61
969045		4.50	0.191	22.6	0.605	0.007	0.023	23.0	0.11	102.5	<0.2	<10	<10	<0.05	3.20	1.69
969046		5.28	0.150	22.2	0.637	0.008	0.023	22.1	0.56	107.5	<0.2	<10	<10	<0.05	3.47	1.64
969047		3.52	0.064	3.8	0.035	0.003	0.038	3.56	6.30	17.6	<0.2	<10	10	0.25	0.33	1.87
969048		2.98	0.014	0.3	0.014	0.001	0.027	0.33	4.85	13.8	<0.2	<10	20	0.14	0.08	3.04

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

ALS Chemex

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Projet: MATAGAMI

Finalisée date: 23-FEVR-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10014866

Description échantillon	Méthode élément unités L.D.	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 U ppm 0.1
969032		23.3	3.25	451	1	0.46	6350	33.9	9.69	2.10	0.05	0.50	18.75	0.04	1.4	0.2
969033		19.10	0.74	452	<1	0.69	>10000	26.8	11.35	1.66	0.02	1.34	22.9	0.05	0.3	0.1
969034		10.50	1.77	788	<1	0.70	>10000	37.2	9.63	3.12	0.02	2.14	28.3	0.05	0.9	<0.1
969035		5.90	1.66	680	<1	0.30	>10000	39.9	12.50	4.81	0.05	1.84	13.85	0.02	0.7	<0.1
969036		9.33	7.46	410	2	0.32	>10000	33.1	16.95	3.83	0.28	1.17	15.60	0.03	3.5	<0.1
969037		140.5	4.57	43.5	3	0.05	1010	28.2	44.8	8.13	0.73	0.92	57.7	<0.01	2.6	0.1
969038		67.8	7.14	46.6	1	<0.05	780	27.2	31.7	3.25	0.44	0.86	26.2	<0.01	4.4	0.1
969039		47.4	1.73	108.5	1	0.23	5250	26.0	12.50	1.26	0.11	1.01	28.8	0.02	0.9	<0.1
969040		31.6	1.84	177.0	<1	1.64	>10000	32.6	24.7	1.48	0.18	1.07	21.2	0.18	0.9	<0.1
969041		204	0.81	107.0	24	<0.05	>10000	35.1	36.3	6.17	0.07	0.34	28.4	<0.01	0.3	<0.1
969042		0.39	18.60	8.4	28	0.14	103.0	2.11	5.96	0.05	0.27	0.02	0.154	0.12	7.8	9.4
969043		4.13	1.33	205	<1	0.33	6240	34.5	6.21	1.19	0.07	0.85	6.35	0.04	0.6	<0.1
969044		1.11	1.32	211	<1	0.09	7660	29.9	2.94	1.00	0.05	0.85	5.31	0.01	0.6	<0.1
969045		0.76	1.77	258	<1	<0.05	6560	32.6	1.11	1.35	0.03	0.75	4.32	<0.01	0.8	<0.1
969046		0.63	3.13	317	2	<0.05	5880	27.2	2.99	1.63	0.10	0.52	2.71	<0.01	1.5	0.3
969047		0.36	12.15	59.3	71	0.49	454	12.25	14.20	0.32	0.17	0.13	0.441	0.04	5.2	20.8
969048		0.06	16.30	32.3	76	0.14	101.0	7.90	11.30	0.12	0.15	0.01	0.162	0.13	6.9	16.8

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 23-FEVR-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10014866

Description échantillon	Méthode élément unités L.D.	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2
969032		0.24	983	1.65	0.02	0.21	2.3	20	305	1.8	0.001	>10.0	12.95	0.3	206	4.8
969033		0.22	588	0.80	0.02	0.18	1.7	<10	182.0	2.2	<0.001	>10.0	9.33	0.2	116.0	6.7
969034		0.38	1290	0.88	0.03	0.19	1.7	<10	182.5	2.1	<0.001	>10.0	7.83	0.2	114.0	4.2
969035		0.38	1180	0.70	0.02	0.26	2.0	<10	220	0.9	0.001	>10.0	7.66	0.4	95.9	4.1
969036		0.77	1760	0.65	0.01	0.25	2.5	10	122.0	1.1	<0.001	>10.0	4.95	1.5	69.8	2.7
969037		1.48	1800	0.47	<0.01	0.23	3.5	10	106.5	0.1	<0.001	>10.0	3.33	4.3	34.4	2.5
969038		0.73	1180	0.16	<0.01	0.28	1.4	20	126.0	0.1	<0.001	>10.0	3.04	3.2	48.8	1.5
969039		0.24	432	0.21	0.01	0.24	0.8	10	129.0	0.9	<0.001	>10.0	2.64	0.8	68.0	2.0
969040		0.57	1000	0.36	0.07	0.24	1.2	<10	257	6.7	0.001	>10.0	2.55	0.6	82.3	5.1
969041		0.32	159	0.49	<0.01	0.23	1.8	10	275	<0.1	0.001	>10.0	2.83	0.2	360	2.8
969042		1.01	322	0.09	0.06	0.24	20.3	400	2.7	3.7	<0.001	0.33	0.07	3.0	0.8	0.4
969043		0.45	1190	0.61	0.02	0.27	1.1	<10	85.5	1.4	0.001	>10.0	1.56	0.3	105.0	1.9
969044		0.49	1000	0.77	0.01	0.24	2.0	<10	42.9	0.4	<0.001	>10.0	0.98	0.3	140.5	1.8
969045		0.92	1240	0.39	0.01	0.26	5.2	10	48.8	<0.1	0.001	>10.0	1.17	0.3	250	2.0
969046		1.07	865	0.64	<0.01	0.29	6.5	30	47.8	0.1	0.001	>10.0	0.65	1.1	202	3.0
969047		5.08	1940	0.79	0.01	0.13	82.1	740	3.1	1.6	0.001	3.05	0.10	10.7	27.1	2.4
969048		3.74	1640	0.44	0.02	0.10	92.4	810	0.9	3.7	0.001	0.27	0.06	8.2	2.1	1.2

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À: **XSTRATA ZINC CANADA EXPLORATION**
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500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 23-FEVR-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10014866

Description échantillon	Méthode élément unités L.D.	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	OA-GRA08 S.G. Unity 0.01
969032		7.8	<0.01	325	<0.2	0.005	0.57	0.06	4	0.11	1.76	8100	1.5	4.38
969033		5.8	<0.01	291	<0.2	<0.005	0.78	<0.05	4	0.05	1.01	6580	0.9	4.34
969034		10.1	<0.01	325	<0.2	<0.005	1.21	<0.05	5	0.13	1.60	3820	0.6	4.46
969035		7.5	<0.01	338	<0.2	<0.005	0.91	0.05	8	0.16	1.72	2020	1.6	4.64
969036		6.4	<0.01	208	0.2	0.011	0.74	0.08	14	0.21	2.64	3380	11.3	4.36
969037		0.4	<0.01	130.0	0.5	0.023	0.60	0.11	22	0.20	2.68	>10000	30.7	4.27
969038		0.4	<0.01	163.0	0.3	0.017	0.23	0.07	11	0.14	2.01	>10000	18.3	4.20
969039		2.4	<0.01	171.5	<0.2	0.005	0.27	<0.05	5	0.07	0.72	>10000	4.5	4.70
969040		6.3	<0.01	316	<0.2	0.005	0.39	0.06	8	0.16	1.03	>10000	7.0	4.16
969041		1.8	<0.01	264	<0.2	<0.005	0.09	0.05	3	0.15	0.92	>10000	2.7	
969042		67.0	<0.01	1.56	1.5	0.165	0.02	0.35	29	0.11	5.00	876	3.8	2.75
969043		8.7	<0.01	143.0	<0.2	0.005	0.34	0.08	6	0.12	1.14	1490	2.8	4.63
969044		5.9	<0.01	119.5	<0.2	<0.005	0.21	<0.05	4	0.07	1.43	353	1.8	4.78
969045		10.7	<0.01	120.0	<0.2	<0.005	0.19	<0.05	5	0.05	2.00	180	1.0	4.72
969046		14.3	<0.01	111.6	<0.2	0.006	0.08	<0.05	5	0.08	3.12	154	3.7	4.38
969047		15.5	<0.01	42.6	0.4	0.076	0.03	0.08	76	0.05	8.37	284	8.2	3.25
969048		33.1	<0.01	22.5	0.4	0.071	0.06	0.05	66	<0.05	7.50	224	7.1	2.82

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Projet: MATAGAMI

Page: Annexe 1
Total # les pages d'annexe: 1
Finalisée date: 23-FEVR-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10014866

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS41	L'analyses de l'or par cette méthode sont semi-quantitatif à cause du peu d'échantillon pesée (0.5g).

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MATAGAMI QC J0Y 2A0

Finalisée date: 8-MARS-2010
Compte: NORMAT

CERTIFICAT VO10018165

Projet: MATAGAMI

Bon de commande #:

Ce rapport s'applique aux 30 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 17-FEVR-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
ME-MS41	Aqua regia 51 éléments ICP-MS	
ME-OG46	Teneur marchandes éléments - Aqua regia	ICP-AES
Cu-OG46	Teneur marchande Cu - Aqua regia	VARIABLE
Zn-OG46	Teneur marchande Zn - Aqua regia	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: **XSTRATA ZINC CANADA EXPLORATION MATAGAMI**
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Projet: MATAGAMI

Finalisée date: 8-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10018165

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au gtonne 0.005	Ag-AA45 Ag gtonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01
0969049		3.03	0.021	2.7	0.009	0.009	0.045	2.67	4.33	38.1	<0.2	<10	20	0.21	1.17	0.12
0969050		4.01	0.016	4.5	0.010	0.008	0.076	4.55	9.22	49.6	<0.2	<10	<10	0.24	2.36	0.11
0969051		1.63	0.167	18.6	6.76	0.017	0.887	17.25	3.94	236	0.2	<10	30	0.27	8.78	1.67
0969052		3.32	0.363	28.8	1.475	0.034	0.235	27.8	0.10	391	0.3	<10	20	0.09	17.00	5.10
0969053		2.58	0.103	16.8	0.606	0.015	0.064	15.70	0.42	167.5	<0.2	<10	20	0.07	9.05	4.30
0969054		4.94	0.146	35.8	1.175	0.017	0.452	33.3	0.29	141.0	<0.2	<10	10	0.05	11.35	2.88
0969055		3.09	0.030	2.1	0.064	0.005	0.584	1.94	6.84	34.4	<0.2	<10	10	0.24	1.10	0.21
0969056		3.66	0.013	1.3	0.146	0.012	1.265	1.13	3.10	45.6	<0.2	<10	10	0.11	2.30	2.83
0969057		3.82	0.069	2.8	0.287	0.014	0.289	2.74	2.16	62.4	<0.2	<10	40	0.16	4.21	1.94
0969058		1.57	0.056	3.9	0.162	0.012	0.058	3.42	2.53	49.5	<0.2	<10	40	0.29	3.87	3.63
0969059		2.89	0.070	0.2	0.013	0.003	0.052	0.08	5.22	19.6	<0.2	<10	<10	0.24	0.11	4.15
0969060		0.57	<0.005	<0.2	0.009	0.003	0.025	0.05	1.22	1.0	<0.2	<10	40	0.17	0.08	1.11
0969061		0.11	0.068	10.3	0.985	0.032	9.79	9.76	0.06	84.2	<0.2	<10	<10	0.07	0.40	0.10
0969062		3.02	<0.005	0.6	0.021	0.010	0.112	0.41	6.06	47.8	<0.2	<10	10	0.28	1.01	3.80
0969063		0.98	0.035	6.2	0.074	0.059	1.160	5.93	5.94	123.5	<0.2	<10	<10	0.17	6.99	0.58
0969064		1.53	0.066	8.4	0.288	0.084	15.35	7.91	1.00	300	<0.2	<10	<10	<0.05	7.13	0.90
0969065		1.88	<0.005	0.5	0.019	0.011	0.141	0.23	7.94	39.5	<0.2	<10	<10	0.35	0.15	0.50
0969066		3.66	0.106	19.4	0.254	0.084	0.938	18.05	0.49	327	<0.2	<10	<10	0.08	1.69	0.26
0969067		2.88	0.128	13.8	1.120	0.026	0.803	12.85	0.03	405	<0.2	<10	<10	<0.05	0.63	0.08
0969068		3.81	0.117	14.8	0.769	0.100	1.160	13.70	0.09	391	<0.2	<10	10	<0.05	4.31	0.06
0969069		4.52	0.174	21.0	0.814	0.033	0.940	20.2	1.53	417	<0.2	<10	<10	<0.05	0.85	0.58
0969070		4.69	0.129	20.2	1.995	0.031	0.183	19.10	0.03	284	<0.2	<10	<10	<0.05	1.88	0.14
0969071		4.78	0.131	24.8	2.01	0.077	3.35	24.3	0.01	289	<0.2	<10	<10	<0.05	0.94	0.63
0969072		0.46	0.005	0.2	0.019	<0.001	0.035	0.19	0.99	2.6	<0.2	<10	30	0.14	0.02	0.80
0969073		0.11	0.027	10.3	0.987	0.031	10.05	9.85	0.07	82.5	<0.2	<10	<10	0.08	0.38	0.10
0969074		3.65	0.121	31.0	2.13	0.249	4.68	30.4	0.01	289	<0.2	<10	<10	<0.05	5.71	0.07
0969075		4.85	0.095	22.1	1.625	0.066	9.37	19.40	0.07	281	<0.2	<10	<10	<0.05	0.89	0.09
0969076		4.14	0.112	13.2	0.725	0.033	1.900	11.95	0.02	368	<0.2	<10	<10	<0.05	0.09	0.15
0969077		0.15	0.110	7.9	0.284	0.039	3.13	7.49	0.07	468	<0.2	<10	10	<0.05	0.11	0.08
0969078		2.13	0.107	4.6	0.241	0.028	6.65	4.37	0.05	635	<0.2	<10	<10	<0.05	0.02	0.02

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Projet: MATAGAMI

Finalisée date: 8-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10018165

Description échantillon	Méthode élément unités L.D.	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1
0969049		0.20	10.85	32.5	6	0.16	29.7	11.80	13.70	0.26	0.57	0.05	0.051	0.14	4.4	9.2
0969050		0.42	6.63	48.0	18	0.18	43.8	21.1	31.9	2.04	0.65	0.05	0.224	0.01	3.7	6.2
0969051		24.1	3.79	445	7	0.81	>10000	27.0	38.3	3.35	0.79	0.24	8.79	0.02	1.8	1.8
0969052		5.41	5.84	734	<1	0.24	>10000	40.2	7.45	4.73	0.02	0.27	27.8	0.02	3.5	0.1
0969053		1.20	5.25	269	2	0.21	6250	34.8	12.55	2.96	0.12	0.15	6.64	0.02	2.8	0.3
0969054		9.77	4.10	256	<1	0.10	>10000	32.6	6.54	2.93	0.09	0.23	12.45	0.01	2.2	0.2
0969055		13.30	10.95	64.0	10	0.13	523	15.05	20.9	0.65	0.21	0.13	2.09	0.02	4.8	6.8
0969056		31.8	3.69	20.6	3	0.09	1440	26.2	10.25	1.25	0.46	0.23	4.22	<0.01	1.7	0.4
0969057		7.18	2.75	49.4	1	0.19	2780	31.3	10.35	1.80	0.34	0.09	7.90	0.01	1.3	0.1
0969058		0.92	7.68	13.8	3	0.22	1700	30.6	8.54	1.44	0.38	0.09	2.92	0.02	3.8	0.2
0969059		0.26	13.70	40.4	13	0.11	81.4	10.60	19.00	0.36	0.09	0.02	0.189	0.01	5.5	12.3
0969060		0.11	16.60	11.2	21	0.12	49.0	1.67	5.90	<0.05	0.26	0.01	0.094	0.08	7.6	9.4
0969061		176.0	0.80	99.6	24	<0.05	>10000	31.5	29.7	5.23	0.06	0.25	20.5	<0.01	0.3	0.1
0969062		1.06	12.75	46.5	68	0.10	98.6	10.90	16.90	0.71	0.14	0.02	0.343	0.06	5.1	16.6
0969063		21.5	4.85	79.4	63	0.07	672	18.60	23.9	2.73	0.21	0.55	6.98	<0.01	1.8	5.0
0969064		295	0.98	144.0	11	0.07	2940	19.70	19.20	1.67	0.07	4.87	48.8	<0.01	0.4	0.5
0969065		0.66	7.33	34.8	80	0.11	61.9	17.45	73.4	2.91	0.10	0.02	0.666	<0.01	2.8	5.0
0969066		17.30	1.09	189.5	12	0.14	2560	23.9	10.70	1.14	0.06	0.49	9.22	0.01	0.5	0.3
0969067		13.85	0.62	345	10	0.18	>10000	24.8	3.49	0.95	<0.02	0.41	10.70	0.01	0.3	<0.1
0969068		20.0	0.59	329	11	0.19	7920	26.1	4.45	1.59	0.02	0.42	26.7	0.01	0.3	<0.1
0969069		14.60	2.38	119.5	16	0.10	8330	26.8	10.45	3.87	0.10	0.58	9.77	<0.01	1.2	0.9
0969070		2.43	0.66	262	8	0.16	>10000	23.2	3.76	1.03	<0.02	0.25	14.90	0.01	0.3	<0.1
0969071		48.1	1.04	246	3	0.07	>10000	23.5	4.70	1.87	<0.02	1.23	21.7	<0.01	0.5	0.1
0969072		0.26	17.45	10.7	23	0.13	87.6	1.52	4.73	<0.05	0.26	<0.01	0.113	0.07	8.0	7.2
0969073		183.5	0.78	88.4	24	<0.05	>10000	31.8	28.7	5.01	0.05	0.27	21.9	<0.01	0.4	<0.1
0969074		73.7	0.99	272	4	0.08	>10000	23.2	6.97	2.90	<0.02	1.84	41.7	<0.01	0.5	0.1
0969075		199.5	0.35	178.5	4	0.34	>10000	22.1	28.9	8.52	<0.02	3.95	31.6	0.02	0.2	0.1
0969076		33.3	0.29	115.5	6	0.19	7900	24.7	4.96	1.61	<0.02	1.00	8.97	0.01	<0.2	0.1
0969077		56.7	0.27	54.8	4	0.51	2930	26.9	16.35	1.95	<0.02	1.52	15.65	0.03	<0.2	0.1
0969078		119.0	0.08	32.8	3	0.37	2510	24.3	14.95	1.93	<0.02	2.30	17.70	0.02	<0.2	0.1

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: **X8TRATA ZINC CANADA EXPLORATION**
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 8-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10018165

Description échantillon	Méthode élément unités L.D.	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2
0969049		2.46	1800	1.16	<0.01	0.07	17.1	410	12.3	3.6	0.001	4.38	0.51	16.1	2.9	1.1
0969050		5.94	2880	3.33	<0.01	0.21	15.4	150	19.2	0.4	<0.001	2.77	0.33	10.5	2.0	2.2
0969051		2.48	2040	3.79	0.01	0.26	6.7	40	122.5	0.8	0.004	>10.0	0.94	7.1	112.5	8.9
0969052		0.34	2040	2.42	0.01	0.47	4.3	40	240	0.6	<0.001	>10.0	3.46	0.5	230	3.2
0969053		1.05	2930	2.11	0.01	0.32	4.0	70	100.5	0.7	<0.001	>10.0	3.04	0.8	96.5	2.6
0969054		0.48	1490	3.40	0.01	0.37	2.0	20	114.5	0.3	<0.001	>10.0	2.94	0.8	169.0	2.6
0969055		4.72	2070	7.34	<0.01	0.08	19.4	530	18.0	0.5	0.002	2.20	0.33	28.8	18.3	3.3
0969056		2.32	2350	0.42	0.01	0.29	4.7	140	71.2	0.2	<0.001	>10.0	0.41	6.5	33.2	1.7
0969057		1.38	1790	0.57	0.01	0.45	2.5	150	76.0	0.5	<0.001	>10.0	0.53	4.1	93.1	2.3
0969058		1.44	1870	1.04	0.01	0.44	3.8	200	72.5	0.6	<0.001	>10.0	0.50	4.5	130.0	2.3
0969059		3.05	1910	0.57	0.01	0.11	23.8	570	2.2	0.5	0.002	0.30	0.05	31.6	1.2	0.6
0969060		0.93	324	0.15	0.04	0.31	20.6	370	2.2	2.6	<0.001	0.14	0.05	3.4	0.6	0.4
0969061		0.30	147	0.47	<0.01	0.37	1.9	20	259	<0.1	<0.001	>10.0	2.90	0.3	300	2.2
0969062		3.89	2160	0.49	0.01	0.20	40.3	510	72.0	1.8	0.002	0.68	0.44	24.2	1.4	3.3
0969063		3.97	1730	4.32	<0.01	0.23	38.2	390	474	0.2	0.002	8.43	4.42	24.9	16.1	11.2
0969064		0.59	547	1.00	<0.01	0.29	14.0	60	719	0.1	<0.001	>10.0	12.65	5.3	54.8	8.3
0969065		5.39	2330	0.69	<0.01	0.16	41.7	530	36.9	0.1	0.002	1.09	0.39	39.2	2.0	9.0
0969066		0.31	307	0.31	<0.01	0.32	4.9	20	770	0.5	<0.001	>10.0	18.35	2.9	55.5	1.4
0969067		0.02	171	0.42	0.01	0.32	1.7	<10	193.5	0.4	<0.001	>10.0	19.90	0.2	80.6	2.2
0969068		0.06	208	0.38	0.01	0.24	3.3	<10	937	0.5	<0.001	>10.0	16.15	0.5	218	2.5
0969069		0.76	853	0.38	0.01	0.33	11.0	60	268	0.2	<0.001	>10.0	15.30	4.5	93.4	2.2
0969070		0.03	187	0.47	0.01	0.29	1.2	<10	223	0.5	<0.001	>10.0	12.35	0.2	118.0	3.5
0969071		0.04	403	0.46	0.01	0.23	1.3	10	679	0.1	<0.001	>10.0	15.10	0.2	170.5	3.5
0969072		0.88	272	0.14	0.04	0.31	18.6	400	7.1	2.2	<0.001	0.23	0.13	2.5	1.5	0.4
0969073		0.30	152	0.48	<0.01	0.31	1.8	20	257	<0.1	<0.001	>10.0	3.19	0.3	310	2.3
0969074		0.02	247	0.42	0.01	0.25	1.6	<10	2430	0.2	<0.001	>10.0	16.15	0.2	300	3.7
0969075		0.05	343	0.43	0.01	0.17	1.1	<10	673	0.8	<0.001	>10.0	16.55	0.3	210	4.1
0969076		0.02	198	0.26	0.01	0.16	0.6	<10	254	0.3	<0.001	>10.0	21.9	0.1	109.5	2.1
0969077		0.04	290	0.21	0.01	0.24	0.8	<10	331	1.3	<0.001	>10.0	25.7	0.4	78.6	2.9
0969078		0.03	232	0.19	0.01	0.21	0.8	<10	200	1.0	<0.001	>10.0	20.7	0.2	30.4	3.4

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Finalisée date: 8-MARS-2010
Compte: NORMAT

Projet: MATAGAMI

CERTIFICAT D'ANALYSE VO10018165

Description échantillon	Méthode élément unités L.D.	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Tl % 0.005	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Zn-OG46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01
0969049		2.6	<0.01	5.91	0.7	0.007	0.09	0.14	129	0.05	4.68	263	24.9			2.82
0969050		1.5	<0.01	9.52	0.9	0.027	0.04	0.22	55	<0.05	4.72	566	35.7			3.06
0969051		19.7	<0.01	105.5	0.7	0.019	0.26	0.22	25	0.08	5.08	7780	40.8	8.17		3.33
0969052		52.1	<0.01	247	<0.2	<0.005	0.86	0.07	8	0.09	3.66	1980	0.9	1.435		4.19
0969053		41.6	<0.01	104.5	<0.2	<0.005	0.41	0.12	12	0.06	4.27	444	5.3			4.21
0969054		32.3	<0.01	121.6	<0.2	<0.005	0.39	0.05	7	<0.05	2.64	4040	3.0	1.095		4.36
0969055		3.3	<0.01	9.85	0.4	0.027	0.27	0.08	251	<0.05	4.32	5670	9.3			2.84
0969056		34.6	<0.01	54.1	0.6	0.022	<0.02	0.09	27	<0.05	3.49	>10000	20.1		1.270	3.53
0969057		26.8	<0.01	73.3	0.3	0.014	0.02	0.07	19	<0.05	3.13	2290	15.3			3.76
0969058		52.7	<0.01	69.8	0.5	0.015	0.02	0.08	23	<0.05	5.28	380	18.7			3.86
0969059		82.7	<0.01	2.09	0.2	0.028	<0.02	<0.05	268	<0.05	7.36	303	4.3			2.81
0969060		70.4	<0.01	0.63	1.8	0.144	<0.02	0.34	35	0.06	4.84	92	3.7			2.75
0969061		2.4	<0.01	236	<0.2	<0.005	0.09	0.06	3	0.12	0.94	>10000	2.7	0.864	10.05	
0969062		36.9	0.01	0.53	0.3	0.234	0.08	0.06	225	0.06	14.40	723	4.4			2.91
0969063		5.0	<0.01	33.9	0.2	0.117	0.69	<0.05	203	0.07	7.20	>10000	7.3		1.150	3.11
0969064		10.1	<0.01	18.55	<0.2	0.020	0.34	<0.05	40	0.08	1.78	>10000	2.4		15.15	4.03
0969065		4.8	<0.01	0.64	0.2	0.123	0.02	0.05	332	0.05	9.52	808	4.1			2.95
0969066		3.0	<0.01	63.9	<0.2	0.012	1.68	<0.05	21	0.06	1.69	9030	2.2			4.62
0969067		1.6	<0.01	58.1	<0.2	<0.005	1.71	<0.05	2	0.07	0.44	7460	<0.5	1.000		4.28
0969068		1.9	<0.01	371	<0.2	<0.005	1.32	<0.05	3	0.07	0.79	>10000	0.8		1.025	4.22
0969069		2.8	<0.01	98.9	<0.2	0.006	3.18	0.05	23	0.11	1.54	8740	3.8			4.56
0969070		2.0	<0.01	98.5	<0.2	<0.005	2.18	<0.05	2	0.06	0.48	1440	<0.5	1.750		4.50
0969071		3.5	<0.01	176.5	<0.2	<0.005	2.15	0.08	1	0.06	0.90	>10000	<0.5	1.815	2.97	4.41
0969072		46.2	<0.01	1.15	1.6	0.109	0.02	0.35	26	0.05	4.35	158	2.7			2.78
0969073		2.0	<0.01	241	<0.2	<0.005	0.09	0.05	3	0.15	0.86	>10000	2.2	0.987	10.10	
0969074		1.0	<0.01	>500	<0.2	<0.005	2.26	0.06	1	0.06	0.62	>10000	0.5	2.07	4.59	4.23
0969075		2.3	<0.01	127.5	<0.2	<0.005	2.77	<0.05	2	0.09	0.41	>10000	<0.5	1.920	12.05	4.61
0969076		1.6	<0.01	49.8	<0.2	<0.005	3.66	<0.05	2	0.08	0.23	>10000	<0.5		1.870	4.68
0969077		4.1	<0.01	45.9	<0.2	<0.005	3.83	<0.05	2	0.09	0.17	>10000	<0.5		3.10	4.72
0969078		3.0	<0.01	7.31	<0.2	<0.005	3.32	<0.05	3	0.09	0.08	>10000	<0.5		6.78	4.64

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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A: **XSTRATA ZINC CANADA EXPLORATION**
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BUREAU D EXPLORATION - MINE MATAGAMI
600, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 8-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10018165

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS41	L'analyses de l'or par cette méthode sont semi-quantitatif à cause du peu d'échantillon pesée (0,5g).

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MATAGAMI QC J0Y 2A0

Page: 1
Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT VO10020509

Projet: MATAGAMI

Bon de commande #:

Ce rapport s'applique aux 28 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 23-FEVR-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

A: **XSTRATA ZINC CANADA EXPLORATION MATAGAMI**
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

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À: **XSTRATA ZINC CANADA EXPLORATION**
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500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020509

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02
0969079		5.21	0.074	4.6	0.125	0.026	9.92	4.43	6.44	0.59	718	10	0.09	0.57	0.19	188.5
0969080		2.77	<0.005	0.2	0.011	0.008	0.091	2.79	0.16	5.30	30.5	10	1.14	6.10	9.09	1.01
0969081		1.55	<0.005	0.2	0.007	0.003	0.049	2.78	0.12	5.38	38.6	<10	1.00	9.92	8.88	0.50
0969082		2.28	0.059	2.6	0.082	0.020	3.81	4.78	3.86	0.53	614	40	0.08	0.23	0.08	87.1
0969083		1.30	0.016	0.9	0.022	0.005	1.625	2.84	1.07	4.84	178.5	620	1.65	0.29	0.05	35.6
0969084		1.76	0.049	2.4	0.047	0.028	1.660	3.66	2.70	2.69	167.0	30	0.14	1.06	0.07	35.6
0969085		2.17	0.127	5.0	0.248	0.043	2.70	4.87	5.57	1.19	326	<10	0.06	1.90	0.01	60.9
0969086		2.63	0.110	4.3	0.136	0.037	2.78	4.84	4.57	1.99	355	<10	0.09	1.29	0.01	54.5
0969087		6.20	0.152	4.5	0.168	0.052	3.43	4.88	6.24	0.21	556	10	<0.05	1.36	0.02	89.8
0969088		3.77	0.089	5.0	0.132	0.061	3.88	4.90	6.82	0.16	639	10	<0.05	1.44	0.15	101.5
0969089		4.66	0.094	4.8	0.253	0.063	3.31	4.81	6.81	0.10	490	<10	<0.05	1.08	0.40	90.6
0969090		4.08	0.067	5.3	0.310	0.049	0.117	4.42	6.70	0.66	337	<10	0.09	0.78	0.12	2.75
0969091		3.92	0.053	6.5	0.102	0.040	0.549	3.48	7.88	2.40	174.5	<10	0.20	0.30	0.26	15.05
0969092		4.58	0.120	12.1	0.057	0.036	0.080	4.25	13.80	1.47	235	10	0.18	7.64	0.40	1.74
0969093		0.37	<0.005	<0.2	0.006	0.001	0.015	2.76	0.05	7.46	1.1	290	0.77	0.09	3.00	0.24
0969094		0.10	0.067	9.6	0.995	0.034	10.50		8.51	0.13	97.1	<10	0.20	0.33	0.10	193.5
0969095		2.76	<0.005	0.8	0.346	0.004	0.060	2.96	1.01	5.61	58.1	<10	0.37	12.90	0.03	0.51
0969096		3.59	<0.005	<0.2	0.006	0.002	0.039	2.82	0.06	7.23	26.0	210	0.53	0.53	3.10	0.14
0969097		2.45	0.016	0.6	0.005	0.003	0.075	2.92	0.58	6.70	24.3	<10	0.75	1.76	0.03	0.12
0969098		2.30	0.026	1.2	0.347	0.004	0.060	2.92	1.42	5.48	33.5	<10	0.44	2.14	0.06	0.20
0969099		1.35	0.048	1.4	0.037	0.004	0.022	4.16	1.26	0.69	98.4	<10	0.07	8.07	0.24	0.27
0969100		2.73	<0.005	<0.2	0.069	0.002	0.027	2.92	0.25	2.66	28.2	<10	0.16	15.40	0.79	0.41
0969101		2.19	<0.005	<0.2	0.185	0.002	0.023	2.99	0.11	2.48	27.2	<10	0.22	0.71	3.28	0.27
0969102		2.73	<0.005	<0.2	0.012	0.001	0.016	2.90	0.05	3.20	11.2	<10	0.23	1.38	2.29	0.11
0969103		2.61	<0.005	0.2	0.124	0.001	0.027	2.92	0.13	3.27	14.9	<10	0.19	3.34	2.74	0.30
0969104		3.17	0.019	0.6	0.022	0.003	0.024	3.64	0.67	2.34	41.6	<10	0.16	17.65	4.07	0.37
0969105		2.19	0.008	1.2	0.128	0.002	0.041	2.93	1.19	3.40	37.4	<10	0.31	37.1	1.22	1.09
0969106		2.77	0.010	0.8	0.432	0.003	0.046	2.84	0.88	7.36	76.4	<10	0.69	111.0	0.15	0.08

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MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020509

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME MS61 Mn ppm 5
0969079		2.23	85.5	5	0.20	1250	33.8	29.8	0.68	0.4	37.1	0.04	1.2	1.1	0.26	384
0969080		134.5	46.0	445	0.17	89.5	5.98	15.65	0.31	3.6	0.267	0.04	56.0	14.3	6.30	1820
0969081		139.5	49.2	560	0.18	58.1	6.52	17.40	0.34	4.1	0.144	<0.01	58.2	8.8	7.12	2150
0969082		4.14	101.5	11	0.14	795	38.6	8.35	0.77	0.3	26.1	0.10	2.2	1.4	0.24	208
0969083		14.55	25.8	33	0.55	200	11.40	21.7	0.21	2.7	3.23	2.25	7.0	3.8	0.39	310
0969084		14.45	93.4	17	<0.05	435	24.4	19.05	0.47	1.4	4.13	0.07	10.1	4.6	1.18	1440
0969085		8.03	140.5	9	<0.05	2370	38.0	17.65	0.93	0.7	13.00	<0.01	5.3	1.1	0.56	697
0969086		6.73	77.9	12	<0.05	1295	37.5	23.2	0.79	1.0	10.15	<0.01	4.0	2.2	0.93	1140
0969087		2.60	78.3	5	0.11	1725	40.6	10.45	1.00	0.3	16.30	0.01	1.5	0.4	0.12	226
0969088		2.61	45.5	3	0.16	1360	39.6	14.75	0.84	0.1	28.4	0.02	1.5	0.4	0.10	241
0969089		2.21	133.0	4	0.08	2640	40.8	15.45	0.80	<0.1	42.0	0.01	1.4	0.3	0.07	154
0969090		3.86	219	5	0.05	3130	39.3	18.35	0.80	0.8	4.75	0.01	2.4	0.4	0.68	398
0969091		11.70	127.0	8	0.74	974	29.6	15.60	0.59	1.4	2.52	0.08	7.1	0.7	2.43	692
0969092		14.65	340	5	0.73	8830	36.2	12.45	1.32	1.0	2.07	0.07	7.5	0.7	1.97	600
0969093		20.3	13.6	24	0.44	47.8	2.61	24.3	0.33	1.3	0.072	0.84	9.5	7.4	1.04	386
0969094		7.81	132.0	44	<0.05	>10000	39.7	48.2	1.71	0.1	17.20	<0.01	3.2	0.3	1.09	166
0969095		108.5	68.6	8	0.43	3260	18.35	57.7	0.69	5.6	1.350	0.01	52.9	2.8	8.19	1800
0969096		20.6	27.5	65	0.49	47.6	6.86	18.15	0.22	2.3	0.140	1.23	9.0	19.7	4.37	1360
0969097		253	51.7	16	0.41	25.5	13.55	65.0	1.13	5.3	0.552	<0.01	109.0	4.7	9.37	1020
0969098		303	55.0	24	0.17	3140	14.00	83.1	1.46	4.6	2.07	<0.01	132.5	3.0	9.40	1020
0969099		6.33	132.0	2	<0.05	323	32.9	8.46	0.93	0.4	0.111	<0.01	2.8	1.0	3.42	134
0969100		37.9	65.6	6	0.05	644	11.90	32.3	0.22	1.7	0.741	<0.01	19.1	2.8	12.75	691
0969101		8.93	31.2	4	<0.05	1940	13.60	17.60	0.19	1.1	1.175	<0.01	4.5	0.9	11.75	1620
0969102		14.90	18.5	4	0.05	100.0	12.15	24.6	0.17	1.7	0.347	<0.01	7.6	1.3	12.60	1340
0969103		12.35	27.5	5	0.05	1190	10.90	30.4	0.18	1.9	1.005	<0.01	6.0	1.9	12.95	1580
0969104		24.2	86.4	3	<0.05	174.5	14.90	20.3	0.29	1.5	0.449	<0.01	12.0	2.0	10.80	2210
0969105		47.0	54.7	6	0.06	1200	9.88	28.1	0.25	2.2	0.663	<0.01	20.7	5.5	13.30	735
0969106		345	75.0	19	0.29	4110	8.97	59.6	0.67	5.4	1.520	<0.01	155.0	3.2	11.25	761

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BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020509

Description échantillon	Méthode élément unités L.D.	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05
0969079		0.51	0.02	0.6	6.2	<10	223	1.2	<0.002	>10.0	20.1	0.9	46	11.3	5.0	<0.05
0969080		0.60	0.22	8.0	196.0	2670	53.4	1.4	<0.002	0.52	0.60	27.3	2	4.3	373	0.33
0969081		0.77	0.01	6.1	284	2640	15.0	0.2	<0.002	0.33	0.54	29.6	2	7.0	310	0.33
0969082		0.21	0.01	0.6	6.9	20	155.0	3.2	<0.002	>10.0	22.1	0.8	64	16.5	1.7	<0.05
0969083		0.78	0.03	2.8	28.6	40	43.9	70.2	<0.002	>10.0	4.87	8.6	7	57.6	7.0	0.22
0969084		0.43	<0.01	1.7	17.5	10	219	2.0	<0.002	>10.0	3.25	4.6	27	8.1	1.3	0.11
0969085		0.43	<0.01	1.0	8.3	10	399	0.1	<0.002	>10.0	8.03	2.2	100	4.4	0.5	0.06
0969086		0.29	<0.01	1.3	10.2	10	337	0.1	<0.002	>10.0	6.71	2.5	89	5.3	0.5	0.07
0969087		0.19	0.01	0.5	4.1	<10	454	0.3	<0.002	>10.0	10.95	0.3	135	4.4	1.0	<0.05
0969088		0.64	0.01	0.5	4.9	<10	550	0.6	<0.002	>10.0	10.40	0.2	69	5.9	3.1	<0.05
0969089		0.35	0.01	0.4	1.8	<10	587	0.3	<0.002	>10.0	7.00	0.1	70	5.8	3.1	<0.05
0969090		0.57	<0.01	1.0	2.5	<10	420	0.2	<0.002	>10.0	5.49	1.2	55	3.8	1.1	0.05
0969091		1.70	0.02	2.1	4.6	40	329	2.5	<0.002	>10.0	2.99	3.3	33	4.9	4.5	0.14
0969092		5.83	0.02	1.7	10.1	10	289	2.4	<0.002	>10.0	2.91	2.9	232	3.2	6.9	0.10
0969093		0.14	3.17	3.2	23.6	400	5.8	25.9	<0.002	0.20	0.13	7.3	1	0.7	424	0.24
0969094		0.83	0.02	0.9	2.7	20	251	0.2	<0.002	>10.0	3.77	0.6	331	2.2	3.1	<0.05
0969095		21.3	0.01	7.5	6.9	130	3.1	0.4	0.017	1.36	1.38	18.1	26	7.3	1.8	0.57
0969096		0.83	0.42	3.8	98.6	750	1.1	29.6	0.002	0.06	0.41	16.2	2	3.9	45.1	0.28
0969097		334	<0.01	8.0	13.0	180	4.7	0.3	0.263	0.05	0.69	17.1	6	13.3	1.7	0.49
0969098		530	<0.01	6.0	16.7	240	10.8	0.3	0.299	0.62	6.18	50.1	23	19.1	2.1	0.49
0969099		2.77	<0.01	1.2	5.4	180	19.9	0.1	0.003	>10.0	1.94	3.0	122	0.8	1.3	<0.05
0969100		20.9	0.01	2.6	11.6	240	6.3	0.2	0.004	3.65	0.91	6.0	10	2.5	4.5	0.17
0969101		5.18	<0.01	1.7	4.3	110	1.1	0.1	<0.002	4.61	0.23	2.4	20	2.5	23.7	0.11
0969102		1.92	<0.01	2.4	5.7	140	0.7	0.1	<0.002	1.45	0.20	3.7	7	3.2	21.3	0.16
0969103		1.91	<0.01	2.5	7.5	230	3.8	<0.1	<0.002	1.92	0.35	4.8	11	2.6	21.2	0.18
0969104		6.95	0.01	1.8	5.7	130	18.8	<0.1	0.003	>10.0	1.65	3.9	29	1.5	23.7	0.13
0969105		11.65	0.01	0.9	12.4	210	15.3	<0.1	0.006	3.58	1.19	7.6	23	3.1	11.2	0.07
0969106		162.5	<0.01	4.4	25.8	420	21.0	0.1	0.097	0.42	2.70	21.6	24	13.4	2.1	0.33

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020509

Description échantillon	Méthode d'élément unités L.D.	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
0969079		4.52	0.2	0.028	4.76	0.1	9	0.2	0.9	>10000	13.0		10.35
0969080		5.56	5.4	0.407	0.02	1.3	142	0.3	23.1	662	160.5		
0969081		6.75	5.8	0.409	<0.02	1.3	148	0.3	24.3	385	170.0		
0969082		50.6	0.2	0.021	0.81	0.1	8	0.2	0.8	>10000	10.5		3.64
0969083		17.95	1.1	0.176	1.90	0.3	59	1.0	7.0	>10000	98.5		1.560
0969084		171.0	0.7	0.096	0.20	0.2	33	0.3	4.1	>10000	53.2		1.640
0969085		302	0.3	0.054	1.54	0.1	17	0.2	1.8	>10000	25.4		2.81
0969086		260	0.5	0.082	0.60	0.1	26	0.3	2.5	>10000	35.7		2.81
0969087		342	<0.2	0.011	1.30	<0.1	4	0.1	0.6	>10000	5.7		3.82
0969088		395	<0.2	0.005	1.94	<0.1	3	0.1	0.4	>10000	2.9		4.14
0969089		395	<0.2	<0.005	2.89	<0.1	2	0.1	0.6	>10000	1.3		3.21
0969090		298	0.2	0.051	0.53	0.1	9	0.2	1.5	1120	20.5		
0969091		253	0.7	0.131	0.11	0.2	19	0.3	3.5	5210	55.3		
0969092		263	0.4	0.092	0.17	0.2	19	0.2	5.1	533	36.7		
0969093		1.13	1.3	0.233	0.09	0.4	54	0.1	7.9	129	35.5		
0969094		171.5	<0.2	<0.005	0.10	0.1	<1	0.2	2.3	>10000	5.0	1.025	10.10
0969095		14.90	2.3	0.442	0.02	1.5	115	1.6	28.3	452	220		
0969096		11.10	0.8	0.395	0.76	0.2	107	0.7	11.3	295	93.5		
0969097		6.74	1.8	0.372	0.15	4.5	169	3.1	42.2	477	207		
0969098		197.5	1.5	0.373	0.20	4.9	161	1.6	40.4	503	192.0		
0969099		34.0	0.2	0.036	0.17	0.2	9	0.1	6.1	172	14.9		
0969100		18.05	0.7	0.157	0.02	0.8	36	0.3	8.3	395	83.2		
0969101		1.51	0.5	0.134	<0.02	0.2	18	0.1	6.2	307	46.0		
0969102		1.66	0.7	0.173	<0.02	0.2	25	0.2	6.7	279	65.2		
0969103		4.53	0.7	0.188	<0.02	0.4	30	0.2	9.0	328	72.4		
0969104		29.9	0.6	0.127	0.04	0.5	25	0.1	10.3	261	55.3		
0969105		46.3	0.9	0.060	0.02	1.2	44	0.2	15.5	506	83.4		
0969106		133.5	2.3	0.270	0.11	5.1	135	1.2	66.3	347	196.0		

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Projet: MATAGAMI

Page: Annexe 1
Total # les pages d'annexe: 1
Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020509

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	Interférence: Mo>400 ppm interfère sur le cadmium par ICP-MS. Les résultats du ICP-AES sont reportés
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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Page: 1
Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT VO10020507

Projet: MATAGAMI

Bon de commande #:

Ce rapport s'applique aux 9 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 23-FEVR-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: **XSTRATA ZINC CANADA EXPLORATION MATAGAMI**
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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À: XSTRATA ZINC CANADA EXPLORATION
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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020507

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02
0969107		0.13	0.069	10.0	0.976	0.038	11.15		12.35	0.12	93.2	10	<0.05	0.38	0.09	190.0
0969108		0.61	<0.005	<0.2	0.010	0.001	0.025	2.76	0.15	7.32	2.7	240	0.67	0.33	3.02	0.33
0969109		3.62	0.303	29.0	3.77	0.036	2.20	4.53	32.4	0.09	355	10	<0.05	20.3	0.08	50.9
0969110		4.86	0.117	13.9	0.660	0.060	1.825	4.58	16.80	0.25	347	10	<0.05	31.6	1.20	41.0
0969111		4.76	0.072	3.0	0.714	0.016	2.65	4.52	3.97	0.02	473	10	<0.05	6.77	1.34	60.3
0969112		3.64	0.097	3.6	0.625	0.013	4.22	4.28	4.23	0.03	294	<10	<0.05	61.0	0.54	85.0
0969113		3.88	0.111	3.8	0.403	0.011	1.725	4.42	4.74	0.04	305	<10	<0.05	67.3	0.59	42.3
0969114		3.07	0.118	9.0	1.015	0.016	0.603	4.46	10.65	0.65	245	20	0.18	171.5	0.69	22.6
0969115		1.52	<0.005	7.8	0.034	0.002	0.046	3.01	9.73	7.95	18.1	510	1.57	1.99	1.81	0.63

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020507

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5
0969107		8.70	112.5	42	<0.05	10000	37.8	42.2	1.40	0.2	21.8	0.01	3.6	0.2	1.07	163
0969108		20.4	15.0	20	0.31	76.9	2.60	18.75	0.09	1.4	0.104	0.66	8.8	8.2	0.97	408
0969109		15.35	841	2	0.19	>10000	38.5	23.0	1.42	0.1	36.3	0.03	6.7	0.2	0.30	1010
0969110		26.0	356	2	0.41	7110	37.7	24.4	0.84	0.1	18.05	0.06	10.7	<0.2	0.71	2580
0969111		11.70	323	<1	0.10	7580	37.1	12.20	0.87	<0.1	32.4	0.01	5.8	0.2	0.43	2080
0969112		11.05	264	1	0.09	6750	33.1	19.50	0.62	<0.1	40.1	0.02	4.9	0.2	0.38	962
0969113		13.50	147.0	2	0.16	4180	34.0	11.60	0.59	<0.1	19.00	0.03	5.7	0.2	0.61	1180
0969114		37.9	394	2	1.01	>10000	34.6	13.50	0.86	0.2	12.30	0.15	14.2	0.5	1.00	1350
0969115		31.6	30.4	11	0.67	342	11.50	28.0	0.19	5.2	0.844	1.90	13.3	13.8	2.98	1340

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Projet MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020507

Description échantillon	Méthode élément unités L.D.	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05
0969107		0.71	0.02	0.4	2.0	20	273	6.1	<0.002	>10.0	5.17	0.1	347	2.7	3.1	<0.05
0969108		12.75	2.99	2.8	19.5	370	7.0	13.0	0.003	0.36	0.22	5.5	3	0.8	412	0.19
0969109		39.4	0.01	0.4	5.8	10	338	1.0	0.014	>10.0	4.68	0.2	348	5.8	2.8	<0.05
0969110		25.9	0.02	0.5	9.3	20	525	1.5	<0.002	>10.0	3.22	0.6	151	5.0	10.0	<0.05
0969111		1.64	0.01	0.3	2.7	10	117.5	0.4	<0.002	>10.0	8.69	0.1	170	6.6	9.2	<0.05
0969112		49.3	<0.01	0.2	1.4	<10	88.5	0.4	0.038	>10.0	8.15	0.1	95	9.3	4.4	<0.05
0969113		58.4	0.01	0.3	2.7	20	74.2	0.8	0.033	>10.0	5.50	0.1	84	4.3	4.9	<0.05
0969114		4.44	0.03	0.4	3.6	50	121.5	4.8	<0.002	>10.0	3.68	1.1	162	4.9	16.2	<0.05
0969115		1.57	0.02	3.9	14.1	880	3.7	57.8	0.003	1.42	0.36	30.1	7	12.2	11.4	0.27

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Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020507

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ta ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
0969107		226	<0.2	<0.005	0.11	0.1	2	0.2	2.2	>10000	5.5	1.020	10.05
0969108		1.52	1.4	0.214	0.07	0.4	59	0.1	6.8	198	33.0		
0969109		421	0.2	0.008	1.59	0.2	3	0.2	2.8	>10000	2.3	3.62	2.09
0969110		460	<0.2	0.015	0.72	0.4	5	0.2	5.8	>10000	5.1		1.845
0969111		81.2	<0.2	<0.005	2.12	0.1	2	0.4	1.9	>10000	0.7		2.67
0969112		103.0	<0.2	<0.005	1.27	0.2	2	0.8	1.9	>10000	<0.5		3.74
0969113		113.0	<0.2	<0.005	1.16	0.2	2	1.1	2.7	>10000	<0.5		1.745
0969114		282	<0.2	0.018	0.22	0.2	13	0.3	12.7	5740	8.5	1.020	
0969115		8.62	1.9	0.560	0.78	0.6	220	0.5	21.1	462	183.5		

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Projet: MATAGAMI

Page: Annexe 1
Total # les pages d'annexe: 1
Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020507

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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Page: 1
Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT VO10020508

Projet: MATAGAMI

Bon de commande #:

Ce rapport s'applique aux 21 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 23-FEVR-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: **XSTRATA ZINC CANADA EXPLORATION MATAGAMI**
ATTN: MICHEL DESSUREAULT
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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020508

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02
0969116		2.92	0.101	18.0	1.245	0.069	1.960	3.78	19.50	0.06	227	10	0.30	6.50	5.12	41.8
0969117		4.94	0.163	19.1	1.280	0.029	2.84	4.26	22.6	0.03	423	<10	0.18	3.60	0.82	61.7
0969118		5.44	0.150	22.7	1.640	0.024	4.33	3.78	26.1	0.08	284	10	0.63	4.83	1.49	97.3
0969119		4.13	<0.005	0.2	0.022	0.002	0.049	2.77	0.17	4.97	58.6	10	0.59	0.14	8.41	0.57
0969120		3.59	0.105	7.7	1.550	0.055	5.13	4.61	9.14	0.07	417	<10	0.36	4.53	0.84	118.0
0969121		5.16	0.142	12.8	1.145	0.037	1.250	3.77	15.35	0.04	745	<10	<0.05	10.00	4.36	66.2
0969122		5.06	0.105	15.6	1.215	0.019	1.235	3.87	18.75	0.02	201	<10	<0.05	14.05	3.77	28.8
0969123		4.86	0.062	9.6	1.855	0.016	2.71	4.00	11.75	0.10	146.0	<10	<0.05	9.82	5.46	59.4
0969124		0.10	0.077	10.2	1.020	0.034	10.20		12.70	0.11	96.4	<10	0.05	0.36	0.10	190.5
0969125		0.45	<0.005	0.4	0.092	0.001	0.129	2.75	0.64	7.02	7.3	240	0.82	0.53	3.27	2.69
0969126		4.73	0.032	2.7	2.46	0.013	2.74	3.69	3.40	0.13	153.0	<10	0.09	8.36	5.32	52.2
0969127		1.84	0.035	2.7	0.306	0.008	0.215	4.03	3.06	0.89	158.0	<10	0.09	2.13	3.94	4.75
0969128		1.80	0.012	1.6	0.146	0.005	0.104	2.89	2.13	4.15	18.8	10	0.16	519	8.80	1.91
0969129		5.23	0.043	5.2	0.554	0.010	0.063	4.43	5.65	0.30	126.5	<10	0.21	47.0	4.62	1.49
0969130		3.78	0.066	2.4	0.333	0.008	0.074	4.21	2.65	1.73	111.5	<10	0.18	610	3.13	2.36
0969131		2.27	0.018	1.2	0.039	0.010	0.073	2.93	1.59	7.33	<0.2	<10	1.03	5260	0.74	0.66
0969132		3.46	0.084	3.2	0.912	0.078	0.564	3.66	3.36	2.13	95.6	10	0.27	455	1.59	20.3
0969133		3.63	0.051	2.8	0.298	0.017	0.061	2.98	2.78	1.60	47.7	10	0.47	206	5.71	2.62
0969134		4.36	0.012	1.2	0.341	0.009	0.041	4.03	1.21	0.64	69.4	<10	0.25	142.5	5.84	1.99
0969135		4.03	0.084	2.5	0.695	0.023	0.171	3.95	2.79	0.38	149.0	10	0.14	35.4	5.44	10.60
0969136		2.68	<0.005	0.2	0.014	0.003	0.051	2.93	0.07	7.58	6.1	110	0.98	13.35	1.93	0.31

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: **XSTRATA ZINC CANADA EXPLORATION**
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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020508

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5
0969116		6.02	176.0	<1	0.18	>10000	36.6	19.50	1.24	<0.1	29.6	0.03	3.2	0.3	1.43	4440
0969117		3.98	273	<1	0.08	>10000	37.6	14.80	1.20	<0.1	30.1	0.01	2.1	0.2	1.96	934
0969118		7.52	250	6	0.17	>10000	36.1	22.0	1.04	<0.1	32.9	0.03	3.6	0.3	1.89	1300
0969119		120.0	41.2	443	0.06	225	6.30	13.20	0.23	3.5	0.295	0.01	49.0	5.0	6.64	2950
0969120		6.46	260	7	0.11	>10000	30.7	9.24	1.40	<0.1	43.8	0.01	2.8	0.3	1.16	1630
0969121		1.86	194.0	1	0.06	>10000	34.2	10.95	0.91	<0.1	20.0	<0.01	0.9	0.3	1.82	3550
0969122		12.50	117.5	6	<0.05	>10000	30.6	11.70	0.66	0.4	9.15	<0.01	4.6	0.3	3.15	2260
0969123		6.57	105.0	<1	<0.05	>10000	30.2	13.40	0.88	<0.1	11.30	<0.01	2.5	0.3	3.51	2640
0969124		8.80	118.0	40	<0.05	9860	37.9	45.5	1.48	0.2	21.4	<0.01	3.6	0.2	1.07	166
0969125		19.10	14.8	23	0.34	903	3.44	20.8	0.11	1.5	0.564	0.67	7.9	10.7	1.13	526
0969126		3.90	185.0	<1	0.05	>10000	31.7	26.2	1.38	<0.1	16.45	0.01	1.6	0.2	3.00	2370
0969127		8.39	30.1	1	<0.05	3080	31.5	9.12	1.06	0.5	2.08	<0.01	3.4	0.4	3.76	2030
0969128		375	39.3	2	0.05	1465	13.80	43.2	0.97	2.0	1.130	0.02	159.5	5.0	10.45	3720
0969129		11.70	298	2	<0.05	5580	33.8	7.64	1.00	0.2	3.02	<0.01	5.4	0.5	3.71	1640
0969130		254	259	2	<0.05	3120	24.0	19.20	1.39	0.2	1.005	<0.01	107.5	5.9	7.46	1040
0969131		>500	24.8	2	0.37	288	10.60	40.8	4.85	0.8	0.253	<0.01	980	24.6	9.89	804
0969132		319	431	1	0.12	9140	26.5	27.1	1.14	0.3	1.090	<0.01	141.0	4.1	5.62	377
0969133		225	162.5	1	0.07	3040	23.8	22.0	0.74	0.2	1.200	<0.01	101.0	1.8	7.03	2490
0969134		100.5	311	<1	<0.05	3600	29.2	21.1	0.62	0.1	2.57	<0.01	44.4	0.7	6.57	2840
0969135		50.7	711	2	0.06	7940	31.4	6.00	0.74	0.2	6.93	0.01	23.4	0.9	4.73	2350
0969136		72.8	39.6	23	0.26	119.5	11.10	31.3	0.35	8.8	0.311	0.50	31.5	26.0	6.63	890

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
600, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020508

Description échantillon	Méthode élément unités L.D.	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Te ppm 0.05
0969116		0.88	0.01	0.3	3.8	80	608	1.0	<0.002	>10.0	8.31	0.3	294	15.4	31.8	<0.05
0969117		0.75	<0.01	0.3	3.1	110	232	0.3	<0.002	>10.0	10.25	0.1	280	12.3	5.7	<0.05
0969118		0.63	0.01	0.3	4.7	200	178.0	0.7	<0.002	>10.0	7.52	0.3	221	12.0	14.1	<0.05
0969119		0.51	0.01	5.2	208	2670	3.5	0.3	<0.002	0.26	0.37	19.5	3	4.0	209	0.27
0969120		0.61	<0.01	0.3	5.7	150	472	0.4	<0.002	>10.0	8.74	0.3	344	9.9	7.0	<0.05
0969121		0.59	<0.01	0.2	3.6	40	330	0.1	<0.002	>10.0	5.86	0.2	197	3.3	23.6	<0.05
0969122		5.21	<0.01	0.7	7.1	490	136.5	0.1	<0.002	>10.0	3.08	2.0	106	2.8	27.1	<0.05
0969123		1.44	0.01	0.2	2.5	130	117.6	0.1	<0.002	>10.0	4.24	0.3	123	2.9	34.2	<0.05
0969124		0.75	0.01	0.5	2.1	10	299	0.1	<0.002	>10.0	4.94	0.1	358	10.7	2.8	<0.05
0969125		0.32	3.03	3.2	21.7	380	11.5	12.6	<0.002	1.14	0.31	6.1	7	0.7	397	0.22
0969126		0.76	0.01	0.3	2.6	160	90.0	0.2	<0.002	>10.0	6.93	0.4	267	13.1	39.3	<0.05
0969127		0.70	0.01	0.9	4.2	100	42.4	0.1	<0.002	>10.0	5.12	2.0	192	1.3	33.3	0.05
0969128		229	0.02	2.6	6.3	610	21.2	0.7	0.036	3.88	9.78	8.5	25	17.5	45.7	0.19
0969129		10.20	<0.01	0.4	9.0	110	60.7	<0.1	<0.002	>10.0	2.37	0.8	158	3.2	28.0	<0.05
0969130		17.90	0.01	0.2	18.7	3750	51.3	0.1	0.007	>10.0	8.45	5.8	102	13.9	25.9	<0.05
0969131		137.5	<0.01	0.4	26.9	4720	84.5	1.0	0.195	0.29	21.5	23.5	37	62.3	11.0	0.17
0969132		76.9	0.01	0.2	17.9	5130	648	0.3	0.067	>10.0	5.45	9.9	108	4.0	13.3	0.05
0969133		79.6	0.01	0.2	6.9	3040	123.5	0.2	0.052	9.90	2.11	6.1	39	8.8	38.8	<0.05
0969134		31.2	0.01	0.2	5.4	660	51.3	0.2	0.027	>10.0	1.44	2.7	64	3.3	35.6	<0.05
0969135		2.27	0.01	0.3	3.9	100	219	0.3	0.003	>10.0	1.60	0.7	116	3.8	51.3	<0.05
0969136		1.07	0.29	11.2	23.6	550	7.1	15.5	<0.002	0.94	0.26	32.2	3	4.4	44.7	0.77

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MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020508

Description échantillon	Méthode élément unités L.D.	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
0969116		384	0.2	<0.005	0.26	0.1	3	0.1	4.2	>10000	1.0	1.230	2.00
0969117		147.5	<0.2	<0.005	0.23	0.1	3	0.1	2.1	>10000	0.6	1.255	2.82
0969118		119.5	<0.2	<0.005	0.30	0.1	3	0.1	5.9	>10000	1.6	1.660	4.26
0969119		1.37	6.3	0.380	<0.02	1.2	136	0.2	21.1	586	144.5		
0969120		368	<0.2	<0.005	0.45	0.1	3	<0.1	3.0	>10000	1.6	1.580	5.29
0969121		323	<0.2	<0.005	0.93	<0.1	3	0.1	1.8	>10000	0.9	1.170	2.63
0969122		154.0	0.2	0.051	0.26	0.1	14	0.2	4.8	>10000	14.6	1.220	1.250
0969123		94.3	<0.2	<0.005	0.41	0.2	1	0.1	4.3	>10000	0.7	1.835	2.65
0969124		237	<0.2	<0.005	0.11	0.1	2	0.2	2.2	>10000	5.6		10.05
0969125		5.11	1.2	0.214	0.08	0.3	51	0.1	7.1	1720	33.1		
0969126		21.6	<0.2	<0.005	0.74	0.1	3	0.1	2.8	>10000	1.1	2.45	2.43
0969127		68.3	0.2	0.047	0.91	0.1	12	0.1	4.3	2080	20.5		
0969128		470	1.0	0.146	0.06	6.1	64	0.6	51.2	948	71.8		
0969129		145.0	<0.2	0.011	0.04	0.3	7	0.1	5.2	505	6.3		
0969130		>500	<0.2	<0.005	<0.02	3.3	72	0.1	35.3	658	1.2		
0969131		>500	0.2	0.012	0.04	12.8	158	1.2	118.0	559	7.1		
0969132		490	<0.2	<0.005	0.07	3.2	67	0.2	66.5	5060	1.1		
0969133		271	<0.2	<0.005	0.07	2.2	45	0.2	37.6	592	0.8		
0969134		160.0	<0.2	<0.005	0.05	1.0	21	0.1	17.9	383	<0.5		
0969135		88.0	<0.2	0.006	0.05	0.4	5	0.1	10.5	1570	6.7		
0969136		14.20	3.0	0.540	0.21	0.8	165	0.7	36.0	349	264		

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A: **XSTRATA ZINC CANADA EXPLORATION**
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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Page: Annexe 1
Total # les pages d'annexe: 1
Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10020508

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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MATAGAMI QC J0Y 2A0

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT VO10021000

Projet: MATAGAMI

Bon de commande #:

Ce rapport s'applique aux 30 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 23-FEVR-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

A: **XSTRATA ZINC CANADA EXPLORATION MATAGAMI**
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
600, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

EXCELLENCE EN ANALYSE CHIMIQUE

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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10021000

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02
0969137		2.38	<0.005	0.2	0.015	0.004	0.052	2.93	0.25	6.98	46.4	130	0.78	0.44	3.34	0.26
0969138		3.12	0.033	10.6	0.566	0.015	0.060	3.72	11.00	0.22	231	<10	0.27	6.66	2.77	1.18
0969139		3.65	0.084	10.0	0.481	0.017	0.097	4.33	9.36	0.05	282	<10	0.12	7.01	3.25	1.67
0969140		6.10	0.147	14.3	0.552	0.036	0.440	4.56	16.60	0.05	543	10	<0.05	15.10	0.69	9.09
0969141		6.06	0.112	16.6	1.155	0.023	0.580	4.81	18.05	0.02	634	10	<0.05	6.64	1.12	13.10
0969142		5.46	0.080	18.7	0.596	0.083	0.500	4.63	20.5	0.01	413	<10	0.05	7.92	1.78	10.20
0969143		5.25	0.132	27.5	1.320	0.037	2.02	4.37	31.0	0.02	789	60	<0.05	0.36	1.32	44.7
0969144		4.74	0.148	34.6	2.15	0.224	2.44	4.28	37.2	0.01	478	30	<0.05	0.66	0.75	53.6
0969145		3.44	0.112	37.5	2.52	0.185	1.500	4.09	36.8	0.02	268	60	0.17	1.07	2.11	30.8
0969146		3.66	0.055	16.0	0.964	0.029	2.16	3.89	16.75	0.29	200	10	0.99	0.17	4.19	46.5
0969147		2.00	0.047	7.2	0.157	0.014	3.20	3.29	7.74	2.62	474	20	0.15	0.15	1.99	68.4
0969148		0.10	0.071	10.0	0.997	0.032	10.65		10.80	0.12	89.7	<10	0.07	0.29	0.10	191.5
0969149		0.31	<0.005	0.7	0.051	0.001	0.131	2.77	0.65	7.76	10.6	330	0.82	0.02	3.06	2.53
0969150		2.15	0.012	5.6	0.091	0.020	0.480	3.46	5.92	7.08	196.5	650	1.20	0.16	0.09	10.75
0969151		2.59	0.052	10.8	0.216	0.066	0.755	3.30	11.55	2.13	357	50	0.05	0.54	0.09	19.65
0969152		2.34	0.014	3.3	0.125	0.010	0.056	4.25	3.58	4.38	116.0	10	0.22	0.94	0.33	0.92
0969153		2.69	<0.005	0.2	0.010	0.002	0.029	2.79	0.14	5.04	69.6	10	0.75	0.08	8.82	0.24
0969154		2.41	0.038	2.1	0.076	0.015	3.88	3.81	2.19	4.30	157.0	<10	0.18	0.12	0.12	100.5
0969155		4.48	0.114	3.9	0.049	0.022	2.18	4.40	3.99	3.40	270	<10	0.20	0.44	0.34	57.3
0969156		5.50	0.090	5.7	0.142	0.012	1.170	4.20	5.90	2.51	187.5	<10	0.12	0.50	0.02	35.2
0969157		4.80	0.072	4.9	0.096	0.009	0.223	4.29	5.47	2.02	164.5	<10	0.51	0.65	0.47	5.81
0969158		3.44	0.064	6.8	0.512	0.009	0.310	4.44	7.21	1.73	167.0	<10	0.54	1.79	0.64	8.13
0969159		1.97	0.094	10.2	1.040	0.038	0.257	4.65	11.95	0.88	222	<10	0.09	10.45	0.18	7.64
0969160		5.42	0.068	6.9	1.395	0.015	1.020	4.59	7.17	0.18	176.0	<10	<0.05	4.38	0.84	25.9
0969161		5.02	0.071	7.3	0.725	0.013	0.209	4.85	7.68	0.09	129.0	<10	<0.05	8.22	0.16	6.32
0969162		5.55	0.188	13.6	0.380	0.018	0.044	4.62	14.95	0.23	265	10	<0.05	12.45	0.14	1.38
0969163		3.08	0.274	31.8	0.929	0.025	0.034	4.28	33.8	1.93	447	<10	0.08	20.4	0.02	1.08
0969164		4.02	0.054	5.8	0.308	0.006	0.037	3.51	6.37	5.67	84.2	<10	0.37	5.28	0.27	0.67
0969165		3.59	0.011	0.9	1.880	0.014	0.062	3.50	7.39	3.81	650	40	0.36	37.4	1.82	2.58
0969166		1.56	<0.005	0.5	0.027	0.002	0.072	2.93	0.24	6.17	23.6	<10	0.62	46.1	0.26	0.64

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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10021000

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5
0969137		11.55	36.0	63	0.29	120.0	10.80	21.1	0.16	2.8	0.242	0.81	4.7	10.6	3.90	2660
0969138		7.34	220	6	0.15	5760	27.9	7.06	0.64	0.1	1.890	0.03	3.7	0.3	0.87	2260
0969139		5.26	309	1	0.17	5050	31.7	9.61	0.60	<0.1	1.135	0.03	2.5	0.3	0.79	2760
0969140		2.02	448	2	0.27	6100	41.2	10.75	1.00	<0.1	2.60	0.02	1.0	0.2	0.09	560
0969141		3.83	118.5	2	0.18	>10000	42.0	4.01	0.68	<0.1	4.35	0.01	1.8	0.2	0.09	816
0969142		5.59	374	2	0.06	6130	38.5	10.05	1.14	<0.1	9.80	0.01	2.6	0.2	0.32	1660
0969143		2.55	358	10	0.16	>10000	38.4	5.41	0.97	<0.1	16.30	0.01	1.3	0.2	0.16	978
0969144		0.87	526	3	0.14	>10000	33.2	7.60	2.17	<0.1	46.9	0.01	<0.5	0.2	0.28	1060
0969145		2.38	412	<1	0.09	>10000	36.0	16.10	1.70	<0.1	31.3	0.02	1.6	0.3	1.45	3140
0969146		3.57	297	<1	0.75	>10000	37.9	32.1	1.05	0.1	25.4	0.08	2.2	0.3	1.80	6930
0969147		7.62	175.0	10	0.39	1575	30.4	26.1	0.69	1.3	25.3	0.06	3.9	3.0	1.32	2840
0969148		9.26	116.0	44	<0.05	9890	37.8	43.7	1.40	0.2	22.1	<0.01	4.0	0.2	1.07	172
0969149		21.0	20.2	23	0.49	477	3.69	20.4	0.14	1.5	1.185	0.87	9.9	7.3	1.05	544
0969150		19.05	34.6	40	0.66	849	16.65	22.4	0.36	3.9	7.46	3.43	9.6	3.4	0.46	385
0969151		14.60	38.4	9	0.20	2250	34.0	7.56	0.56	1.3	8.76	0.16	8.1	4.0	0.86	1030
0969152		19.05	32.2	18	0.06	1295	24.9	20.4	0.35	2.8	1.950	0.02	10.2	10.0	2.35	2190
0969153		128.0	40.0	440	0.14	85.0	6.11	13.25	0.26	3.6	0.170	0.05	56.9	12.9	6.07	2530
0969154		5.61	17.6	14	<0.05	749	28.6	21.9	0.31	2.5	16.25	<0.01	2.8	4.3	2.78	1690
0969155		24.0	42.6	52	<0.05	479	33.0	23.4	0.42	1.8	24.7	<0.01	13.0	1.3	2.19	1500
0969156		18.35	53.9	5	<0.05	1420	36.6	20.2	0.48	1.4	24.0	<0.01	10.9	0.6	1.58	1020
0969157		10.70	33.4	4	0.24	657	38.7	24.0	0.43	1.2	5.29	0.02	6.1	0.2	1.89	1270
0969158		13.05	199.5	4	0.12	5250	37.3	26.8	0.49	1.0	10.95	0.01	6.8	0.3	2.34	1340
0969159		16.80	416	3	<0.05	>10000	40.0	18.60	0.75	0.6	15.05	<0.01	8.4	0.2	1.13	602
0969160		9.75	281	<1	0.05	>10000	40.7	7.51	1.04	0.1	29.9	0.01	2.0	0.2	0.76	1120
0969161		7.95	183.5	1	0.08	7780	43.1	6.27	1.05	0.1	4.68	0.01	4.4	0.2	0.80	182
0969162		4.78	444	1	<0.05	3950	42.5	5.14	1.38	0.1	2.17	0.01	2.6	0.2	0.57	148
0969163		19.75	748	2	<0.05	9590	38.8	13.65	1.41	1.3	2.07	<0.01	10.6	0.2	1.78	193
0969164		36.5	321	4	0.08	3090	28.6	26.1	0.83	4.1	1.220	<0.01	19.1	0.7	5.11	795
0969165		46.5	869	4	0.24	>10000	34.2	42.7	1.04	2.7	2.34	0.03	23.8	0.9	4.22	1200
0969166		102.5	68.6	5	0.21	227	14.25	58.1	0.46	14.5	0.204	<0.01	44.6	7.1	8.80	1020

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10021000

Description échantillon	Méthode élément unités L.D.	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05
0969137		0.85	0.03	4.4	48.8	460	29.7	25.8	<0.002	0.26	0.81	26.0	9	5.4	33.0	0.30
0969138		3.88	0.01	0.4	9.0	30	123.5	0.7	<0.002	>10.0	10.40	0.9	113	3.9	18.3	<0.05
0969139		2.46	0.01	0.2	2.1	<10	134.0	0.7	<0.002	>10.0	10.30	0.1	103	4.6	18.8	<0.05
0969140		1.82	0.01	0.4	1.9	<10	336	0.9	<0.002	>10.0	20.7	0.1	210	2.9	5.5	<0.05
0969141		2.10	0.01	0.3	1.6	<10	220	0.4	<0.002	>10.0	20.5	0.1	89	3.8	5.5	<0.05
0969142		9.23	<0.01	0.3	1.8	<10	569	0.2	<0.002	>10.0	14.15	0.1	251	3.3	9.5	<0.05
0969143		1.00	<0.01	0.3	2.0	<10	343	0.4	<0.002	>10.0	25.8	0.1	194	4.4	6.5	<0.05
0969144		0.78	<0.01	0.3	1.4	<10	2150	0.3	<0.002	>10.0	23.3	0.1	614	16.8	4.3	<0.05
0969145		0.64	0.01	0.2	1.1	30	1645	0.3	<0.002	>10.0	12.75	0.1	476	10.7	13.2	<0.05
0969146		0.36	0.02	0.4	1.7	60	257	3.0	<0.002	>10.0	8.98	0.6	231	15.9	36.8	<0.05
0969147		0.41	0.01	1.4	13.3	130	120.5	2.8	<0.002	>10.0	13.55	3.7	130	19.4	16.6	0.10
0969148		0.72	0.02	0.5	2.0	20	284	0.1	<0.002	>10.0	5.05	0.1	336	3.6	3.3	<0.05
0969149		0.17	2.94	3.3	19.3	400	21.1	23.7	<0.002	0.94	0.52	6.1	11	0.8	477	0.24
0969150		0.85	0.05	2.3	35.2	40	173.5	62.8	<0.002	>10.0	4.95	11.8	40	35.8	8.6	0.17
0969151		0.57	0.02	1.5	11.2	60	635	4.3	<0.002	>10.0	14.10	3.1	69	4.7	2.9	0.09
0969152		0.90	<0.01	1.8	30.0	210	69.7	0.8	<0.002	>10.0	5.07	6.5	22	4.6	4.4	0.13
0969153		0.50	0.01	6.8	215	2800	13.3	1.9	<0.002	0.32	0.48	21.7	3	3.5	294	0.31
0969154		0.66	<0.01	2.2	9.9	40	119.5	0.1	<0.002	>10.0	5.62	4.6	8	14.7	2.3	0.15
0969155		0.67	<0.01	2.1	21.7	170	178.5	0.1	<0.002	>10.0	10.55	3.9	18	6.7	4.7	0.14
0969156		0.37	<0.01	2.0	4.5	20	92.3	<0.1	<0.002	>10.0	5.36	2.3	29	3.0	0.4	0.12
0969157		0.32	0.01	1.8	3.9	40	60.7	0.8	<0.002	>10.0	1.85	2.2	12	11.7	5.6	0.11
0969158		0.76	<0.01	1.6	3.0	30	61.1	0.3	<0.002	>10.0	1.58	2.1	32	8.2	5.8	0.09
0969159		0.79	<0.01	1.2	2.2	20	321	0.1	<0.002	>10.0	3.71	1.2	107	4.8	1.7	0.06
0969160		1.68	<0.01	0.4	0.9	30	114.5	0.2	<0.002	>10.0	1.81	0.2	224	3.5	4.9	<0.05
0969161		21.9	<0.01	0.4	1.1	20	101.0	0.3	0.009	>10.0	1.62	0.2	216	2.0	2.6	<0.05
0969162		14.00	<0.01	0.5	1.5	<10	132.6	0.1	<0.002	>10.0	2.46	0.3	306	1.8	1.2	<0.05
0969163		6.37	<0.01	2.0	3.2	20	208	0.1	<0.002	>10.0	4.57	3.2	318	3.8	0.5	0.12
0969164		3.05	<0.01	5.3	6.1	100	30.9	0.1	<0.002	>10.0	1.13	9.3	132	8.2	2.6	0.37
0969165		5.87	0.01	3.1	10.0	40	73.2	0.8	<0.002	8.55	2.44	6.1	130	5.7	21.0	0.22
0969166		28.2	<0.01	7.4	8.8	100	3.1	0.2	0.004	0.37	0.76	7.9	6	5.4	4.9	0.63

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À: **XSTRATA ZINC CANADA EXPLORATION**
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10021000

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ta ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
0969137		0.79	0.8	0.589	0.66	0.2	251	0.6	23.9	400	95.1		
0969138		30.9	<0.2	0.022	0.15	<0.1	6	0.1	3.9	529	3.4		
0969139		33.6	<0.2	<0.005	1.01	<0.1	1	0.1	2.7	882	0.5		
0969140		164.0	<0.2	<0.005	0.99	0.1	2	0.1	1.6	4370	<0.5		
0969141		84.7	<0.2	<0.005	1.55	<0.1	1	0.1	2.0	6200	<0.5	1.215	
0969142		249	<0.2	<0.005	1.95	<0.1	<1	0.2	2.9	4790	<0.5		
0969143		83.8	<0.2	<0.005	6.53	<0.1	<1	0.2	2.0	>10000	0.7	1.320	2.04
0969144		202	<0.2	<0.005	1.58	<0.1	1	0.1	1.2	>10000	<0.5	2.18	2.50
0969145		377	<0.2	<0.005	0.37	<0.1	1	0.1	2.5	>10000	0.7	2.50	1.470
0969146		44.7	<0.2	0.014	0.33	0.1	5	0.1	4.7	>10000	5.9	0.951	2.19
0969147		13.50	0.6	0.085	0.51	0.2	32	0.2	5.5	>10000	50.9		3.19
0969148		216	<0.2	<0.005	0.10	0.1	2	0.2	2.5	>10000	5.9		9.99
0969149		3.28	1.3	0.225	0.11	0.4	54	0.1	7.8	1240	36.8		
0969150		142.0	1.4	0.187	2.55	0.4	85	0.4	11.1	4530	148.5		
0969151		368	0.6	0.083	0.44	0.2	27	0.3	4.3	7450	47.5		
0969152		38.3	1.2	0.104	0.10	0.3	55	0.6	8.7	539	101.0		
0969153		5.32	5.3	0.392	0.03	1.2	143	0.3	23.0	261	169.0		
0969154		59.1	1.1	0.144	0.09	0.3	32	0.5	3.3	>10000	91.0		3.80
0969155		163.5	0.9	0.152	0.27	0.2	26	0.4	5.2	>10000	66.9		2.23
0969156		103.0	0.6	0.128	0.11	0.1	16	0.3	4.2	>10000	52.1		1.210
0969157		76.7	0.5	0.106	0.07	0.1	15	0.4	4.1	2120	44.5		
0969158		95.9	0.4	0.097	0.09	0.1	15	0.4	4.5	2930	39.4		
0969159		282	0.3	0.054	0.27	0.1	10	0.2	2.3	2400	25.5	1.045	
0969160		129.5	<0.2	0.007	0.16	0.1	2	0.1	1.1	9490	3.9	1.255	
0969161		135.5	<0.2	<0.005	0.12	0.1	3	0.1	2.9	2070	2.0		
0969162		250	<0.2	0.015	0.22	0.1	4	0.1	1.5	436	5.7		
0969163		359	0.5	0.123	0.36	0.2	22	0.3	6.2	320	50.4		
0969164		71.1	1.7	0.317	0.07	0.5	48	1.0	16.1	388	158.0		
0969165		150.5	1.1	0.166	0.12	0.4	32	1.0	11.4	509	104.0	1.830	
0969166		51.2	3.7	0.157	<0.02	1.8	48	1.2	47.8	641	352		

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A: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10021000

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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MATAGAMI QC J0Y 2A0

Finalisée date: 17-MARS-2010
Compte: NORMAT

CERTIFICAT VO10021960

Projet: MATAGAMI

Bon de commande #:

Ce rapport s'applique aux 28 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 26-FEVR-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
OA-GRA08	Densité relative - échantillon global	WST-SEQ
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

A: **XSTRATA ZINC CANADA EXPLORATION MATAGAMI**
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
600, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

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Projet: MATAGAMI

Finalisée date: 17-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10021960

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01
0969167		1.15	0.006	1.2	0.068	0.018	0.185	1.06	6.24	96.0	100	0.62	3.42	3.21	4.34	14.30
0969168		4.61	0.063	16.1	1.385	0.029	0.587	17.30	0.29	522	20	0.07	54.6	0.44	11.45	4.73
0969169		0.49	<0.005	0.2	0.009	<0.001	0.063	0.08	7.30	3.3	160	0.51	0.23	0.11	0.28	3.29
0969170		4.77	0.085	20.9	0.480	0.024	0.198	21.3	0.08	623	10	<0.05	6.02	0.71	4.40	3.50
0969171		5.10	0.124	18.8	0.514	0.028	1.105	20.4	0.01	654	<10	<0.05	1.13	0.62	21.8	2.61
0969172		5.30	0.093	22.2	1.305	0.176	2.31	23.9	0.03	505	<10	<0.05	1.75	1.22	49.5	2.45
0969173		5.29	0.176	26.9	1.180	0.114	4.20	29.0	0.01	626	<10	<0.05	1.06	0.77	93.5	1.64
0969174		4.58	0.157	29.5	1.710	0.116	3.33	33.4	0.04	261	<10	0.11	0.99	3.35	75.2	6.01
0969175		4.33	0.120	25.9	0.740	0.044	2.84	28.0	0.01	301	<10	0.12	0.29	2.27	61.8	2.29
0969176		3.13	0.141	34.3	1.250	0.102	1.445	39.1	0.12	358	10	0.22	0.47	3.11	29.9	8.14
0969177		2.05	0.013	2.6	0.059	0.007	0.520	2.34	6.37	120.0	250	0.68	0.19	0.11	10.75	13.70
0969178		3.59	0.007	1.5	0.029	0.003	0.486	1.87	6.46	122.5	130	0.73	0.46	0.09	10.75	8.88
0969179		3.09	0.024	4.7	0.160	0.012	6.32	5.60	0.92	381	10	<0.05	1.25	0.71	159.5	5.30
0969180		2.69	0.046	2.0	0.033	0.010	2.65	2.11	1.99	535	10	0.08	0.13	1.17	68.6	9.76
0969181		4.23	0.009	0.6	0.022	0.004	0.125	0.26	1.65	67.1	10	0.43	0.01	0.57	2.41	9.65
0969182		3.80	0.009	0.5	0.011	0.002	0.513	0.20	2.50	52.8	10	1.02	0.09	3.78	12.25	29.0
0969183		4.66	0.047	3.0	0.142	0.010	0.612	3.08	1.42	119.5	<10	0.64	0.50	1.03	17.90	8.64
0969184		2.86	<0.005	<0.2	0.005	<0.001	0.032	0.05	5.88	43.7	<10	0.00	0.37	7.40	0.12	153.0
0969185		1.80	0.005	<0.2	0.004	<0.001	0.068	0.02	5.35	65	20	0.61	0.36	10.15	0.32	91.6
0969186		0.10		10.8	0.960	0.031	9.79	10.75	0.13	101.0	10	0.12	0.33	0.11	208	11.40
0969187		0.41	<0.005	<0.2	0.014	<0.001	0.028	0.07	7.06	2.0	260	0.85	0.07	3.26	0.54	21.7
0969188		3.97	0.068	8.6	0.418	0.015	0.109	8.62	1.04	149.0	10	0.31	4.08	1.39	1.70	14.25
0969189		4.91	0.083	6.6	0.778	0.010	0.605	6.82	0.05	175.0	10	0.06	3.61	1.32	17.65	3.30
0969190		5.30	0.068	6.0	0.579	0.012	0.481	6.29	0.09	158.5	10	0.05	6.49	0.34	15.20	5.17
0969191		5.35	0.130	27.0	0.449	0.011	0.105	22.9	1.10	107.0	10	0.06	6.31	1.72	2.64	7.88
0969192		3.08	0.032	3.6	0.269	0.004	0.058	3.59	5.98	42.5	<10	0.32	10.25	1.65	0.44	58.8
0969193		3.17	0.010	3.2	0.560	0.003	0.059	2.72	5.13	82.1	<10	0.31	25.6	1.17	0.74	41.5
0969194		2.88	0.011	1.1	0.075	0.001	0.201	0.78	5.57	49.6	<10	0.45	135.5	0.37	10.95	176.5

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

ALS Chemex

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Finalisée date: 17-MARS-2010
Compte: NORMAT

Projet: MATAGAMI

CERTIFICAT D'ANALYSE VO10021960

Description échantillon	Méthode élément unités L.D.	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05
0969167		60.6	54	0.22	653	11.75	21.0	0.21	2.7	0.623	0.55	5.6	15.1	3.57	2600	1.07
0969168		299	4	0.29	>10000	36.1	14.55	0.75	0.1	8.09	0.02	2.2	0.2	0.16	394	2.36
0969169		5.6	68	0.25	81.6	13.45	60.5	0.20	2.2	0.466	1.02	1.6	14.9	3.42	2690	0.34
0969170		138.5	3	0.22	4920	37.3	6.15	0.72	<0.1	4.26	0.02	1.8	0.2	0.06	389	4.69
0969171		142.5	5	0.10	5310	37.6	2.86	0.66	<0.1	17.00	<0.01	1.1	<0.2	0.06	415	2.24
0969172		395	<1	0.21	>10000	37.8	21.6	1.47	<0.1	41.6	0.02	1.2	<0.2	0.43	1480	0.94
0969173		459	1	0.10	>10000	34.6	14.65	1.11	<0.1	43.5	0.01	0.8	0.2	0.56	1380	0.90
0969174		532	<1	0.11	>10000	36.9	25.4	1.44	<0.1	46.9	0.01	3.3	0.2	1.08	4110	0.63
0969175		338	<1	0.10	7640	35.2	11.65	1.05	<0.1	26.3	0.01	1.4	0.2	1.09	2500	0.29
0969176		322	<1	0.19	>10000	33.8	8.52	1.48	<0.1	23.5	0.02	4.4	0.2	0.69	2410	0.36
0969177		28.5	26	0.32	576	15.45	25.0	0.24	3.2	4.07	1.54	8.0	5.1	1.71	1920	0.87
0969178		21.2	31	0.34	288	14.85	17.75	0.20	3.6	3.02	1.85	3.6	7.7	1.68	1830	0.89
0969179		27.9	3	0.12	1615	35.7	13.40	0.53	0.6	47.8	0.01	2.7	0.6	0.54	581	0.62
0969180		5.2	4	0.25	322	36.4	17.00	0.46	1.3	16.55	0.02	5.0	0.4	1.76	911	0.37
0969181		3.6	1	0.99	217	24.9	6.42	0.29	1.1	0.488	0.14	4.7	0.4	5.31	9800	0.19
0969182		18.2	58	0.19	86.9	23.3	9.59	0.32	1.7	3.02	0.02	12.7	1.1	7.18	6090	0.54
0969183		117.5	3	0.44	1510	37.8	24.8	0.45	0.9	9.41	0.04	4.4	0.4	2.95	1340	0.61
0969184		38.8	403	0.07	47.0	7.40	14.50	0.25	3.8	0.212	0.01	65.0	5.9	7.24	2150	0.56
0969185		46.6	588	0.54	38.7	8.34	13.35	0.26	3.7	2.00	0.03	40.0	2.1	8.04	2840	0.28
0969186		128.0	50	<0.05	>10000	42.8	46.1	1.74	0.2	23.6	0.01	4.8	<0.2	1.14	188	0.89
0969187		13.2	23	0.34	47.3	2.80	21.0	0.07	1.6	0.128	0.72	8.9	11.1	1.11	488	22.3
0969188		359	2	0.15	4820	44.0	16.50	0.83	0.8	14.10	0.01	6.6	0.2	1.30	721	1.79
0969189		291	<1	0.09	9510	46.3	7.07	1.12	<0.1	16.85	0.01	1.8	<0.2	0.77	984	1.24
0969190		122.0	<1	0.07	6640	43.3	4.89	1.13	0.1	12.85	0.01	2.6	<0.2	0.57	314	4.82
0969191		198.0	2	<0.05	5040	40.4	5.75	2.42	0.8	1.575	<0.01	3.6	0.2	1.60	1460	1.55
0969192		188.5	3	0.43	2840	29.0	28.8	0.72	6.4	0.699	<0.01	29.4	2.3	6.67	1220	2.50
0969193		230	7	0.21	5690	19.70	40.8	0.70	5.8	0.699	<0.01	19.4	2.5	6.69	925	11.25
0969194		116.0	8	0.22	900	12.70	91.0	0.46	6.7	0.795	<0.01	79.7	16.6	9.22	900	42.5

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 17-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10021960

Description échantillon	Méthode élément unités L.D.	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05
0969167		0.02	4.5	36.2	450	163.5	20.8	0.003	2.89	2.06	33.8	12	6.6	31.1	0.31	2.69
0969168		0.01	0.4	3.3	10	275	1.1	<0.002	>10.0	13.40	0.8	113	6.5	4.7	<0.05	133.0
0969169		0.02	1.8	66.0	370	4.1	14.9	<0.002	0.13	0.63	12.6	1	20.6	2.8	0.15	0.39
0969170		0.01	0.3	4.5	10	222	0.5	0.002	>10.0	20.0	0.2	104	2.0	4.3	<0.05	94.7
0969171		<0.01	0.2	1.1	<10	260	0.1	<0.002	>10.0	25.2	<0.1	91	4.3	2.7	<0.05	113.0
0969172		0.01	0.3	2.1	10	1750	0.4	0.002	>10.0	19.80	0.1	305	12.5	7.1	<0.05	309
0969173		<0.01	0.2	1.7	10	1110	0.1	<0.002	>10.0	20.1	0.1	219	10.7	4.6	<0.05	93.2
0969174		0.01	0.3	1.7	30	1110	1.0	0.002	>10.0	16.20	0.1	298	17.3	23.0	<0.05	110.5
0969175		<0.01	0.2	0.8	20	405	0.2	<0.002	>10.0	14.10	0.1	215	20.7	16.5	<0.05	90.7
0969176		0.01	0.3	2.2	40	948	0.6	0.002	>10.0	15.15	0.4	323	11.5	29.8	<0.05	164.0
0969177		0.02	2.7	29.5	350	60.2	38.5	0.003	9.04	5.54	9.8	16	27.0	4.3	0.21	4.16
0969178		0.03	2.3	35.6	340	33.2	28.2	0.002	9.39	4.62	10.7	7	29.1	4.5	0.19	4.62
0969179		0.01	0.9	7.6	50	103.0	0.4	<0.002	>10.0	14.75	1.6	49	11.4	2.8	0.05	25.8
0969180		<0.01	1.8	6.3	180	78.6	0.5	0.002	>10.0	12.90	2.6	16	10.2	6.1	0.12	8.89
0969181		0.02	1.7	2.5	120	10.2	4.5	<0.002	>10.0	1.91	2.5	3	4.1	58.3	0.11	0.42
0969182		0.01	2.6	43.9	540	5.8	0.6	0.005	9.68	1.34	6.7	3	4.6	33.6	0.16	0.97
0969183		0.01	1.6	3.2	50	82.1	1.5	0.003	>10.0	2.03	2.0	11	8.5	14.2	0.09	98.6
0969184		0.01	6.2	175.5	3170	3.4	0.2	0.002	0.23	0.33	22.7	2	5.9	152.0	0.34	2.41
0969185		0.01	5.3	278	2810	2.4	1.3	<0.002	0.15	0.53	28.3	1	5.4	213	0.32	1.62
0969186		0.02	0.5	2.7	20	288	0.1	0.002	>10.0	5.12	0.1	373	2.7	3.2	<0.05	261
0969187		3.58	3.6	21.3	440	7.1	66.1	0.006	0.33	0.14	6.9	2	0.6	458	0.26	0.81
0969188		0.01	1.2	4.1	20	136.5	0.4	<0.002	>10.0	1.94	1.5	111	4.6	8.7	0.07	195.5
0969189		<0.01	0.3	0.9	20	96.7	0.3	<0.002	>10.0	1.69	<0.1	204	5.9	6.6	<0.05	120.5
0969190		<0.01	0.4	1.5	10	109.0	0.3	0.003	>10.0	1.34	0.1	210	2.9	3.3	<0.05	151.5
0969191		<0.01	1.2	3.4	20	111.0	0.1	<0.002	>10.0	1.08	1.5	548	2.1	12.1	0.07	175.5
0969192		<0.01	4.3	6.0	70	29.6	0.2	<0.002	>10.0	1.00	15.8	73	6.8	15.1	0.36	57.8
0969193		<0.01	4.4	7.1	60	12.3	0.2	<0.002	9.78	1.57	11.9	85	8.3	12.0	0.36	53.0
0969194		<0.01	4.0	8.3	350	6.1	0.2	0.016	2.62	2.21	6.5	14	5.7	6.0	0.34	126.5

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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MATAGAMI
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500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Finalisée date: 17-MARS-2010
Compte: NORMAT

Projet: MATAGAMI

CERTIFICAT D'ANALYSE VO10021960

Description échantillon	Méthode élément unités L.D.	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Ti ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001	OA-GRA08 S.G. Unity 0.01
0969167		0.7	0.575	0.46	0.2	250	1.1	32.5	1690	92.8			2.84
0969168		<0.2	0.017	2.76	0.1	10	0.7	4.4	5520	4.3	1.430		4.38
0969169		0.5	0.218	1.09	0.3	123	1.2	4.3	464	84.4			2.87
0969170		<0.2	0.007	1.82	0.1	5	0.7	1.5	1820	1.8			4.59
0969171		<0.2	<0.005	7.43	0.1	3	0.7	1.2	>10000	<0.5		1.145	4.56
0969172		<0.2	<0.005	1.07	0.1	6	0.8	2.6	>10000	0.5	1.385	2.37	4.00
0969173		<0.2	<0.005	1.24	<0.1	4	0.5	1.4	>10000	<0.5	1.220	4.34	4.20
0969174		<0.2	<0.005	1.05	0.2	5	0.7	3.4	>10000	0.7	1.760	3.29	4.16
0969175		<0.2	<0.005	0.79	<0.1	4	0.5	2.4	>10000	<0.5		3.81	3.97
0969176		<0.2	0.006	0.78	<0.1	6	0.4	3.4	>10000	2.0	1.275	1.405	4.17
0969177		1.2	0.192	1.33	0.4	73	0.7	7.6	6080	129.0			3.06
0969178		0.8	0.161	1.55	0.5	84	0.6	6.2	4960	143.0			3.03
0969179		0.3	0.042	1.25	0.1	15	0.5	2.4	>10000	23.9		6.75	4.38
0969180		0.6	0.101	0.65	0.2	21	0.4	3.7	>10000	53.6		2.56	4.17
0969181		0.5	0.100	0.06	0.3	16	0.5	4.4	1120	44.5			3.38
0969182		1.4	0.149	<0.02	0.4	41	0.5	7.2	5020	71.2			3.40
0969183		0.4	0.074	0.08	0.1	14	0.4	3.0	6240	34.5			4.14
0969184		6.4	0.441	<0.02	1.6	153	0.4	24.8	266	175.5			2.80
0969185		5.4	0.438	<0.02	1.4	149	0.9	19.1	628	136.0			2.80
0969186		<0.2	0.005	0.10	0.1	3	0.3	2.5	>10000	6.7	0.993	9.75	
0969187		1.4	0.250	0.03	0.5	60	0.1	7.9	658	37.9			2.75
0969188		0.3	0.061	0.11	0.3	9	0.2	4.0	1030	25.6			4.26
0969189		<0.2	<0.005	0.15	0.1	2	0.1	1.3	6220	1.2			4.60
0969190		<0.2	0.005	0.14	0.1	3	0.1	1.5	4600	2.0			4.76
0969191		0.3	0.065	0.07	0.1	11	0.3	3.6	909	25.5			4.31
0969192		3.1	0.268	0.05	0.6	51	1.1	21.5	475	196.5			3.43
0969193		2.9	0.277	0.04	0.6	57	1.3	15.6	429	184.0			3.65
0969194		2.6	0.166	0.03	2.9	71	1.5	35.5	1860	253			2.86

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À: **XSTRATA ZINC CANADA EXPLORATION**
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Projet: MATAGAMI

Page: Annexe 1
Total # les pages d'annexe: 1
Finalisée date: 17-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10021960

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	Interférence: Ca>10% interfère sur l'arsenic par ICP-MS. Les résultats du ICP-AES sont reportés.
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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MATAGAMI QC J0Y 2A0

Page: 1
Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT VO10021539

Projet: MATAGAMI

Bon de commande #:

Ce rapport s'applique aux 19 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 26-FEVR-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: **XSTRATA ZINC CANADA EXPLORATION MATAGAMI**
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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A: XSTRATA ZINC CANADA EXPLORATION
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Projet: MATAGAMI

Finalisée date: 16-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10021539

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Be ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02
0969195		3.13	<0.005	<0.2	0.007	0.002	0.054	2.79	0.10	5.21	3.8	10	0.88	0.25	8.69	0.22
0969196		3.63	0.050	3.4	0.054	0.031	8.55	3.90	3.31	0.13	405	10	0.08	0.13	0.15	189.5
0969197		4.44	0.088	11.3	0.093	0.079	8.86	4.19	11.85	0.05	507	60	0.05	1.90	0.13	192.5
0969198		4.78	0.164	24.9	1.076	0.087	2.38	4.17	25.9	0.02	456	<10	0.10	6.70	0.03	48.0
0969199		4.70	0.175	15.5	0.992	0.036	1.965	4.43	16.90	0.04	580	10	0.05	16.85	0.20	38.6
0969200		4.86	0.095	9.4	0.248	0.026	1.080	4.69	19.55	0.64	1360	70	<0.05	29.4	0.83	96.0
0969201		0.09		10.8	0.984	0.029	9.67		11.25	0.12	100.0	<10	0.09	0.37	0.09	190.0
0969202		0.51	<0.005	0.2	0.008	<0.001	0.053	2.73	0.11	7.39	3.9	350	0.90	0.11	2.01	0.26
0969203		5.39	0.090	8.8	0.166	0.022	2.96	4.67	10.10	0.04	895	10	0.06	2.23	0.45	59.6
0969204		5.80	0.094	8.1	0.447	0.016	2.40	4.65	8.51	0.02	882	10	0.55	8.18	0.83	60.9
0969205		6.38	0.091	7.9	0.821	0.016	0.504	4.63	8.31	0.01	850	<10	<0.05	10.45	0.22	10.30
0969206		6.00	0.098	6.3	0.152	0.021	0.561	4.10	7.02	0.02	757	<10	0.10	39.0	0.25	11.00
0969207		4.93	0.166	12.1	0.498	0.045	1.745	4.22	12.95	0.01	893	<10	0.12	8.26	0.10	36.9
0969208		4.92	0.141	8.7	0.937	0.034	2.09	4.34	9.08	0.01	648	<10	0.05	1.65	0.05	42.3
0969209		5.24	0.374	7.6	0.600	0.025	6.50	4.18	7.81	0.02	545	10	0.05	1.57	0.03	144.0
0969210		5.72	0.146	12.9	2.31	0.056	2.96	4.52	14.25	0.01	865	<10	<0.05	8.18	0.25	59.9
0969211		5.13	0.142	15.1	1.375	0.055	2.81	4.58	15.95	0.04	525	10	0.05	5.67	0.58	63.0
0969212		1.51	0.084	4.1	0.226	0.007	2.06	4.02	4.32	3.36	193.5	80	0.56	14.95	0.06	53.8
0969213		2.32	0.005	0.2	0.014	<0.001	0.053	2.84	0.22	8.66	19.5	60	0.71	0.48	3.46	0.40

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Finalisée date: 18-MARS-2010
Compte: NORMAT

Projet: MATAGAMI

CERTIFICAT D'ANALYSE VO10021539

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5
0969195		115.5	47.9	514	0.21	55.3	5.90	15.15	0.22	3.5	0.053	0.01	46.7	11.1	6.98	1220
0969196		2.49	58.2	24	0.12	543	25.6	44.4	0.26	0.1	36.3	0.01	1.0	0.4	0.15	137
0969197		1.57	179.5	28	0.28	987	29.4	44.8	0.36	<0.1	26.6	0.02	0.7	0.2	0.06	239
0969198		3.77	701	1	0.13	>10000	36.8	27.0	0.65	<0.1	34.2	0.01	1.7	0.2	0.53	477
0969199		1.76	661	4	0.24	>10000	36.1	17.10	0.72	<0.1	32.9	0.02	0.8	0.2	0.28	852
0969200		3.54	150.0	12	1.30	4750	>50	102.0	1.08	0.3	9.80	0.13	1.7	0.3	0.51	1300
0969201		10.70	123.5	41	<0.05	10000	39.8	45.1	1.58	0.2	22.5	<0.01	4.4	<0.2	1.08	166
0969202		14.95	12.0	26	0.68	53.5	2.50	16.60	0.11	1.3	0.127	1.09	6.1	13.0	1.11	378
0969203		1.07	19.2	3	0.21	1875	40.6	7.26	0.70	<0.1	6.61	0.01	0.5	<0.2	0.05	631
0969204		1.77	80.1	4	0.26	5040	40.6	5.87	0.57	<0.1	9.21	0.01	0.8	0.3	0.04	473
0969205		0.82	65.5	11	0.14	6850	39.7	2.78	0.61	<0.1	6.97	0.01	<0.5	<0.2	0.03	273
0969206		1.10	32.1	12	0.11	1630	35.4	3.79	0.68	<0.1	7.58	<0.01	0.5	0.2	0.04	260
0969207		0.54	113.0	13	0.08	5610	35.6	2.50	1.06	<0.1	22.5	<0.01	<0.5	<0.2	0.02	283
0969208		0.64	154.5	7	<0.05	>10000	35.2	3.04	1.05	<0.1	29.3	<0.01	<0.5	<0.2	0.01	270
0969209		0.49	115.5	7	<0.05	6550	33.0	9.28	1.10	<0.1	36.5	0.01	<0.5	0.2	0.02	302
0969210		1.81	204	9	0.11	>10000	37.6	11.60	1.28	<0.1	25.5	0.01	0.8	<0.2	0.16	576
0969211		11.10	176.0	2	0.10	>10000	38.0	13.35	1.06	<0.1	25.6	0.01	5.7	<0.2	0.16	772
0969212		31.3	143.5	4	0.16	2520	33.7	50.3	0.69	2.1	21.1	0.39	15.8	3.5	1.18	749
0969213		22.6	37.5	10	0.17	120.5	11.25	20.6	0.17	3.0	0.304	0.27	9.2	12.7	3.27	1690

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10021539

Description échantillon	Méthode élément unités L.D.	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05
0969195		0.39	0.04	6.4	226	2710	33.7	0.6	<0.002	0.38	0.56	26.4	2	1.1	211	0.32
0969196		0.52	0.01	0.4	7.3	60	301	0.4	<0.002	>10.0	14.35	0.6	12	23.2	4.8	<0.05
0969197		1.16	0.01	0.3	6.6	20	775	0.8	<0.002	>10.0	24.6	0.3	29	13.4	2.4	<0.05
0969198		1.01	0.01	0.3	2.8	10	841	0.4	<0.002	>10.0	19.95	0.1	117	13.8	0.5	<0.05
0969199		1.37	0.01	0.3	4.1	10	361	0.8	0.002	>10.0	20.9	0.2	135	14.2	3.5	<0.05
0969200		1.65	0.02	1.0	7.6	10	424	4.1	0.002	>10.0	48.6	1.2	154	9.2	11.3	<0.05
0969201		0.79	0.02	0.6	2.0	20	271	0.1	<0.002	>10.0	5.33	0.1	361	3.5	3.6	<0.05
0969202		0.20	3.36	3.1	20.7	390	4.3	30.1	<0.002	0.32	0.19	5.7	2	0.6	318	0.23
0969203		0.58	0.01	0.5	1.5	<10	235	0.4	<0.002	>10.0	25.9	<0.1	107	4.0	4.6	<0.05
0969204		0.97	0.01	0.3	1.8	<10	169.5	0.5	<0.002	>10.0	19.25	<0.1	78	2.1	6.0	<0.05
0969205		1.11	0.01	0.2	2.5	<10	155.5	0.2	0.002	>10.0	13.65	<0.1	73	3.5	2.3	<0.05
0969206		0.44	<0.01	0.5	2.4	<10	208	0.2	<0.002	>10.0	11.05	0.1	116	6.2	2.5	<0.05
0969207		0.52	<0.01	0.4	2.0	<10	451	0.1	<0.002	>10.0	21.4	<0.1	234	14.0	1.0	<0.05
0969208		0.49	<0.01	0.4	1.2	10	319	0.1	<0.002	>10.0	14.80	<0.1	246	7.2	0.6	<0.05
0969209		0.48	0.01	0.4	1.6	<10	245	0.2	<0.002	>10.0	12.95	<0.1	255	5.9	0.6	<0.05
0969210		0.85	0.01	0.4	3.4	90	668	0.3	<0.002	>10.0	16.75	0.1	314	7.6	2.8	<0.05
0969211		0.66	<0.01	0.4	2.2	260	543	0.3	<0.002	>10.0	13.30	0.2	234	7.1	6.0	<0.05
0969212		1.43	0.01	2.4	5.8	30	74.2	13.0	<0.002	>10.0	5.47	5.3	115	27.7	1.3	0.16
0969213		0.69	0.57	4.1	21.5	650	4.4	10.1	0.004	0.30	0.48	33.1	3	3.9	69.0	0.28

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600, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10021539

Description échantillon	Méthode élément unités L.D.	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
0969195		<0.05	5.9	0.396	<0.02	1.4	138	0.4	23.8	395	148.0		
0969196		1.32	0.2	0.010	2.17	0.1	4	0.3	1.1	>10000	3.9		6.63
0969197		26.8	<0.2	<0.005	2.87	0.1	1	0.5	1.1	>10000	1.9		9.51
0969198		169.5	<0.2	<0.005	0.63	0.1	1	0.3	2.8	>10000	<0.5	1.115	2.38
0969199		178.5	<0.2	<0.005	0.98	0.1	2	0.2	2.1	>10000	0.8	1.020	1.885
0969200		169.0	0.2	0.024	6.28	0.4	8	0.3	3.2	>10000	11.0		1.080
0969201		232	<0.2	<0.005	0.11	0.1	1	0.2	2.6	>10000	6.2	1.030	10.15
0969202		0.62	1.2	0.229	0.12	0.3	49	0.5	6.5	191	35.3		
0969203		100.5	<0.2	<0.005	3.46	<0.1	3	0.1	0.8	>10000	0.8		2.91
0969204		55.2	<0.2	<0.005	1.92	<0.1	3	0.1	1.3	>10000	<0.5		2.45
0969205		57.9	<0.2	<0.005	0.87	<0.1	4	0.9	0.5	5000	0.6		
0969206		133.5	<0.2	<0.005	0.33	<0.1	2	0.1	1.1	6290	0.8		
0969207		259	<0.2	<0.005	0.88	<0.1	2	0.1	0.5	>10000	<0.5		1.790
0969208		154.0	<0.2	<0.005	1.38	<0.1	1	0.1	0.3	>10000	<0.5	1.020	2.03
0969209		131.0	<0.2	<0.005	1.03	<0.1	1	0.1	0.3	>10000	<0.5		6.86
0969210		452	<0.2	<0.005	2.21	0.1	2	0.1	1.3	>10000	<0.5	2.41	2.92
0969211		363	<0.2	<0.005	1.02	<0.1	2	0.1	1.9	>10000	0.6	1.390	2.82
0969212		41.9	1.0	0.163	0.60	0.3	28	0.9	6.8	>10000	67.0		2.01
0969213		2.15	0.6	0.626	0.13	0.2	284	1.0	17.2	393	112.0		

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BUREAU D EXPLORATION - MINE MATAGAMI
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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Page: Annexe 1
Total # les pages d'annexe: 1
Finalisée date: 18-MARS-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10021539

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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MATAGAMI QC J0Y 2A0

Page: 1
Finalisée date:
10-AOUT-2010
Compte: NORMAT

CERTIFICAT VO10103425

Projet: MATAGAMI

Bon de commande #:

Ce rapport s'applique aux 38 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 29-JUIL-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
OA-GRA08	Densité relative - échantillon global	WST-SEQ
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: XSTRATA ZINC CANAOA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 10-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10103425

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01
0969229		2.21	0.011	1.4	0.005	0.006	0.035	1.55	6.63	23.0	350	1.53	0.20	3.22	0.04	50.4
0969230		1.14	0.055	29.7	0.323	0.027	1.205	32.4	5.01	192.0	40	1.33	16.70	0.42	22.6	16.90
0969231		4.25	0.106	25.2	0.601	0.019	6.94	27.6	0.06	376	10	0.76	12.10	0.16	123.5	4.56
0969232		4.22	0.084	7.7	0.609	0.022	6.32	6.85	0.06	519	<10	0.30	2.52	0.26	103.5	4.43
0969233		4.96	0.088	14.5	0.824	0.020	1.460	15.25	0.09	416	<10	0.44	38.4	2.04	23.8	10.05
0969234		3.61	0.053	16.1	0.456	0.021	4.79	17.30	0.08	433	<10	0.28	25.4	1.47	85.4	8.14
0969235		4.78	0.059	11.3	0.206	0.018	9.47	12.20	0.05	484	10	0.24	14.65	0.38	181.0	1.98
0969236		2.90	0.010	0.5	0.009	0.009	0.073	0.31	5.52	10.2	30	1.85	0.44	9.06	0.59	132.5
0969237		3.28	0.008	0.4	0.006	0.011	0.064	0.30	5.52	6.9	30	1.06	0.69	9.15	0.84	137.5
0969238		5.84	0.122	12.3	0.767	0.033	7.88	13.60	0.57	580	10	0.11	1.37	1.08	180.5	13.60
0969239		5.93	0.126	15.6	0.589	0.032	14.40	17.30	0.07	639	<10	<0.05	2.47	0.03	302	5.93
0969240		5.83	0.158	22.4	1.060	0.026	4.92	24.8	0.26	520	10	<0.05	1.03	0.02	114.5	6.81
0969241		5.03	0.036	4.5	0.118	0.012	10.40	4.58	3.20	219	<10	0.06	0.65	0.02	59.7	16.90
0969242		0.08		10.3	1.020	0.028	8.67	11.90	0.14	93.8	<10	0.09	0.45	0.10	201	10.00
0969243		0.58	0.009	0.2	0.010	0.001	0.116	0.11	8.27	2.3	390	0.63	0.10	2.97	1.63	15.55
0969244		4.16	0.084	4.7	0.316	0.019	4.81	5.44	0.81	468	10	<0.05	0.63	0.06	107.0	11.30
0969245		5.12	0.055	5.0	0.162	0.019	1.270	5.98	0.13	441	10	<0.05	0.56	0.14	30.9	2.63
0969246		5.26	0.079	4.6	0.238	0.018	1.160	5.54	0.08	443	10	<0.05	0.65	0.31	30.0	4.79
0969247		5.39	0.158	8.5	0.528	0.061	0.508	10.40	0.17	625	10	<0.05	0.45	0.75	12.05	2.36
0969248		4.73	0.169	23.5	0.293	0.054	0.424	25.5	0.33	428	<10	<0.05	1.99	0.37	10.90	4.50
0969249		3.30	0.087	7.7	0.784	0.015	0.439	8.71	0.54	138.0	<10	0.29	2.89	5.45	51.9	5.38
0969250		4.71	0.074	5.1	0.669	0.011	0.112	5.40	0.62	170.5	60	0.19	3.92	5.13	28.4	6.61
0969251		2.53	0.028	1.0	0.019	0.007	0.113	0.97	6.86	236	90	0.54	0.18	0.05	1.57	7.28
0969252		0.03	0.109	5.1	1.100	0.014	5.84	6.61	0.37	382	10	<0.05	24.3	0.09	135.0	11.60
0969253		4.19	0.064	3.7	1.180	0.009	3.27	4.23	0.27	195.5	10	<0.05	17.20	2.73	81.1	5.67
0969254		4.43	0.086	8.1	1.795	0.009	1.785	8.20	0.80	118.0	20	0.12	540	5.64	43.0	91.0
0969255		4.79	0.108	15.0	0.990	0.022	2.84	15.40	0.36	121.5	10	<0.05	45.4	2.87	64.8	58.2
0969256		3.52	0.043	6.5	0.148	0.009	0.049	6.95	1.61	74.1	<10	0.16	207	6.03	0.82	16.50
0969257		4.47	0.054	4.3	0.851	0.005	0.038	4.39	0.49	102.0	<10	0.10	87.1	2.62	1.00	13.30
0969258		4.52	0.030	1.5	0.694	0.005	0.044	1.88	0.15	61.6	<10	0.18	115.0	2.02	1.11	19.90
0969259		3.27	0.023	1.2	0.508	0.003	0.441	1.25	6.98	77.4	<10	0.31	181.5	0.74	14.75	>500
0969260		3.43	0.018	0.8	0.004	0.008	0.095	0.60	10.75	0.2	590	1.53	1510	0.15	1.25	>500
0969261		3.37	0.017	0.6	0.067	0.001	0.356	0.33	10.50	7.3	780	1.51	1.56	0.35	14.75	>500
0969262		3.25	<0.005	0.4	0.007	0.003	0.143	0.06	9.68	1.4	70	0.98	669	0.22	4.81	>500
0969263		3.25	0.007	0.3	0.092	0.003	0.063	0.30	7.56	16.7	<10	0.47	16.55	0.36	0.62	183.0
0969264		4.13	0.042	4.3	0.863	0.011	0.033	4.27	5.23	58.0	10	0.18	8.44	0.06	1.24	65.1
0969265		1.67	0.006	0.3	0.015	0.003	0.026	0.21	5.53	9.5	<10	0.27	6.05	1.00	0.21	50.3
0969266		2.91	<0.005	<0.2	0.015	0.008	0.050	<0.01	6.81	2.5	30	0.64	0.39	3.53	0.05	42.4

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 10-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10103425

Description échantillon	Méthode élément unités L.D.	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05
0969229		26.0	22	0.45	22.0	7.43	18.75	0.46	6.7	0.094	1.54	21.3	10.6	2.26	2360	0.81
0969230		285	40	0.59	2970	21.1	76.7	1.00	2.5	7.91	0.08	7.3	1.8	3.28	2670	16.40
0969231		550	<1	0.49	6120	39.7	46.1	1.73	<0.1	31.6	0.05	2.2	0.4	0.23	453	12.55
0969232		371	<1	0.30	6940	40.0	44.9	1.80	<0.1	28.7	0.02	2.2	0.4	0.14	491	6.16
0969233		557	<1	0.11	6090	40.5	30.5	1.62	<0.1	9.73	0.01	4.8	0.5	1.20	1750	10.90
0969234		279	<1	0.18	4480	39.0	39.5	1.57	0.1	21.0	0.01	3.9	0.4	0.61	1390	4.40
0969235		24.6	<1	0.28	1970	37.3	39.5	1.25	<0.1	18.40	0.04	1.0	0.5	0.21	480	1.16
0969236		44.2	416	0.28	72.2	6.35	18.50	0.61	3.7	0.147	0.06	58.3	10.7	6.07	2080	0.45
0969237		43.6	555	0.12	56.7	7.06	16.45	0.26	3.6	0.287	0.01	59.2	4.7	7.68	1940	0.50
0969238		386	85	0.31	8220	35.8	47.1	0.63	0.4	65.1	0.01	6.8	0.7	0.73	449	5.84
0969239		312	2	0.30	8100	34.5	37.9	0.61	0.1	158.5	0.01	2.6	0.2	0.05	382	2.07
0969240		413	2	0.49	>10000	36.7	17.40	0.71	0.1	41.5	0.03	3.5	0.3	0.15	348	4.49
0969241		103.0	17	<0.05	1140	24.8	32.7	0.33	1.8	11.85	0.01	10.1	1.4	1.32	1970	2.47
0969242		112.0	47	<0.05	>10000	43.0	38.0	1.78	0.2	27.0	<0.01	4.3	<0.2	1.14	163	0.66
0969243		10.0	17	0.70	54.0	2.59	21.2	0.07	1.1	0.851	1.22	6.6	10.2	0.94	355	0.15
0969244		39.6	5	0.51	3180	39.0	28.4	0.68	0.4	26.1	0.04	6.0	0.7	0.36	395	1.17
0969245		11.4	3	0.54	1640	42.8	5.76	0.09	<0.1	11.60	0.04	1.5	<0.2	0.08	193	0.38
0969246		16.8	2	0.32	2480	43.8	3.49	0.04	<0.1	14.80	0.02	2.7	1.0	0.04	176	0.31
0969247		95.0	1	0.65	5480	44.4	7.53	0.98	0.1	11.45	0.04	1.3	<0.2	0.17	562	0.77
0969248		290	1	0.05	3050	47.5	7.98	1.05	0.2	14.75	<0.01	2.3	<0.2	0.28	598	1.24
0969249		128.0	4	0.38	8220	41.5	11.85	0.94	0.2	36.3	0.03	3.0	0.2	2.66	9240	0.61
0969250		134.5	1	0.66	7290	39.2	18.55	0.83	0.4	12.15	0.07	3.6	0.3	2.81	8780	0.43
0969251		15.7	23	0.27	137.5	22.5	21.4	0.39	5.1	0.325	1.44	2.9	10.0	3.54	2300	1.16
0969252		106.0	1	0.19	>10000	39.3	9.07	0.81	0.2	11.50	0.02	5.5	0.6	0.32	301	1.82
0969253		126.5	1	0.29	>10000	36.5	12.80	0.85	0.1	11.20	0.03	2.5	<0.2	1.05	1660	0.50
0969254		166.5	1	0.08	>10000	30.7	14.20	0.88	0.2	15.50	0.01	35.2	0.4	3.86	2380	50.6
0969255		82.1	<1	<0.05	>10000	37.2	11.55	0.91	0.1	22.3	<0.01	23.6	0.2	1.88	1100	7.80
0969256		76.7	2	0.05	1415	23.8	16.30	0.45	0.6	2.61	<0.01	7.3	0.8	6.56	3970	27.6
0969257		416	<1	<0.05	9880	35.6	9.42	0.99	0.1	4.30	<0.01	6.6	0.3	4.66	1120	11.20
0969258		195.0	<1	<0.05	7130	34.3	12.65	0.68	<0.1	2.70	<0.01	9.1	0.7	7.03	825	19.25
0969259		113.5	<1	0.57	4960	13.80	52.2	1.75	0.4	1.160	<0.01	425	21.6	12.55	550	116.0
0969260		25.8	9	1.02	40.4	6.69	27.8	1.70	8.3	0.053	2.19	420	95.7	8.94	460	70.0
0969261		31.1	43	1.06	608	6.06	33.2	1.40	14.8	0.197	3.43	387	46.0	6.23	330	237
0969262		27.2	20	0.70	79.7	9.04	44.3	1.13	13.4	0.190	0.37	240	71.7	11.75	672	12.75
0969263		72.7	2	0.38	894	15.10	75.3	0.51	15.9	0.560	<0.01	79.6	33.1	9.49	716	8.34
0969264		271	<1	0.27	8330	30.7	29.6	1.18	8.2	3.73	0.03	30.2	14.1	4.57	441	2.74
0969265		19.6	14	0.12	147.0	12.60	18.00	0.28	6.0	0.564	0.01	22.3	12.3	5.34	625	1.69
0969266		34.5	23	0.12	63.8	6.88	23.1	0.20	5.2	0.126	0.11	17.7	15.9	3.39	918	0.81

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À: XSTRATA ZINC CANADA EXPLORATION
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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 10-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10103425

Description échantillon	Méthode élément unités LnD.	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05
0969229		0.21	16.8	23.8	660	39.3	57.1	0.002	0.01	0.53	26.9	4	4.3	29.8	1.12	0.93
0969230		0.01	5.1	24.5	370	236	3.4	0.004	>10.0	8.41	32.1	30	15.0	5.1	0.30	44.6
0969231		0.01	1.9	8.4	20	166.5	2.2	0.004	>10.0	18.80	0.8	79	20.7	5.9	<0.05	43.8
0969232		<0.01	1.9	8.0	10	183.5	1.1	0.003	>10.0	20.3	0.6	28	15.6	2.6	<0.05	8.20
0969233		<0.01	1.9	6.0	50	170.0	0.4	0.007	>10.0	14.95	1.0	41	8.8	13.0	<0.05	58.3
0969234		<0.01	2.0	4.5	30	186.0	0.6	0.004	>10.0	15.40	0.7	39	9.9	10.4	<0.05	69.2
0969235		0.01	1.4	2.4	10	171.0	1.0	0.003	>10.0	13.75	0.5	32	21.7	3.8	<0.05	24.2
0969236		0.40	6.8	196.5	2940	90.7	2.7	0.002	0.45	0.99	29.3	2	2.3	570	0.38	0.19
0969237		0.09	6.1	236	3000	112.0	0.3	<0.002	0.50	1.18	19.2	2	3.8	316	0.33	0.26
0969238		0.02	1.0	19.6	300	330	0.7	<0.002	>10.0	30.5	1.2	74	8.3	36.5	<0.05	19.50
0969239		0.01	0.6	6.6	10	320	0.6	<0.002	>10.0	29.4	<0.1	68	10.8	1.3	<0.05	27.2
0969240		0.01	0.7	3.6	20	255	1.3	<0.002	>10.0	25.1	0.1	88	8.0	1.4	<0.05	41.1
0969241		<0.01	2.0	14.2	20	86.0	0.3	<0.002	>10.0	10.50	2.6	15	4.6	1.0	0.15	8.17
0969242		0.02	0.9	1.9	30	293	0.1	<0.002	>10.0	7.03	<0.1	388	5.4	3.4	<0.05	235
0969243		3.28	3.1	16.4	430	5.3	27.9	<0.002	0.25	0.21	4.0	2	0.7	398	0.22	0.35
0969244		0.02	0.9	3.4	20	168.5	1.7	<0.002	>10.0	16.40	0.5	93	3.7	3.3	<0.05	70.4
0969245		0.02	0.7	1.0	10	162.0	1.6	<0.002	>10.0	18.45	<0.1	63	8.4	5.0	<0.05	86.9
0969246		0.01	0.7	0.7	<10	165.5	1.0	<0.002	>10.0	15.70	<0.1	85	7.5	4.3	<0.05	112.0
0969247		0.02	0.8	1.1	10	605	1.9	<0.002	>10.0	10.15	<0.1	122	4.2	6.8	<0.05	>500
0969248		<0.01	0.9	1.8	10	662	0.1	<0.002	>10.0	6.21	0.2	185	3.6	2.1	<0.05	416
0969249		0.01	1.2	4.0	110	121.5	1.3	<0.002	>10.0	3.80	0.7	148	5.9	29.7	<0.05	92.6
0969250		0.02	1.3	4.1	150	83.0	2.5	<0.002	>10.0	4.04	0.6	126	7.0	22.7	<0.05	64.1
0969251		0.02	4.4	16.9	140	33.5	12.4	<0.002	>10.0	6.25	8.2	14	13.5	2.6	0.30	5.74
0969252		0.01	1.0	2.4	30	124.5	0.7	<0.002	>10.0	12.75	0.5	99	10.3	1.2	<0.05	89.3
0969253		0.01	0.9	3.3	630	73.6	1.2	<0.002	>10.0	7.06	1.0	109	5.7	17.0	<0.05	30.9
0969254		0.01	0.6	8.5	400	74.0	0.6	0.012	>10.0	3.95	3.0	176	16.7	31.8	<0.05	75.2
0969255		<0.01	0.9	3.9	240	211	0.1	<0.002	>10.0	2.90	1.3	116	6.8	14.6	<0.05	211
0969256		<0.01	1.6	4.1	80	59.3	0.1	0.013	>10.0	10.55	2.1	47	4.4	38.3	0.09	262
0969257		<0.01	0.7	4.1	90	27.0	0.1	<0.002	>10.0	7.64	0.7	186	2.9	18.6	<0.05	192.5
0969258		<0.01	0.7	2.8	110	11.0	0.1	0.010	>10.0	1.82	0.5	62	3.0	15.8	<0.05	126.0
0969259		<0.01	0.5	18.0	1550	13.7	0.2	0.109	3.71	1.40	21.1	22	6.1	8.2	0.06	147.5
0969260		0.05	3.6	20.1	1280	71.2	56.3	0.118	0.12	2.63	15.0	19	14.1	14.1	0.24	>500
0969261		0.09	7.8	44.0	1270	5.9	66.7	0.268	1.94	0.80	20.2	12	14.8	23.6	0.83	4.52
0969262		0.21	9.9	26.0	580	20.8	14.2	0.029	0.36	2.10	21.1	11	7.7	11.9	0.83	>500
0969263		<0.01	13.8	5.4	210	6.8	0.2	0.002	5.41	0.56	12.8	19	7.6	6.9	0.98	16.85
0969264		<0.01	8.8	3.2	190	80.8	1.0	<0.002	>10.0	1.96	5.5	221	12.7	1.7	0.76	98.6
0969265		<0.01	8.0	12.6	270	16.0	0.3	<0.002	4.60	0.31	14.6	15	5.7	16.7	0.68	14.35
0969266		1.37	7.6	22.9	780	1.0	3.8	<0.002	0.13	0.18	29.8	2	1.9	82.6	0.57	0.42

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À: XSTRATA ZINC CANADA EXPLORATION
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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 10-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10103425

Description échantillon	Méthode élément unités L.D.	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.2	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001	OA-GRA08 S.G. Unity 0.01
0969229		3.3	0.546	1.39	0.7	147	0.7	73.0	208	216			2.84
0969230		0.7	0.496	0.70	0.4	197	0.7	25.3	>10000	83.8		1.235	3.30
0969231		<0.2	0.005	2.96	0.2	4	0.3	5.8	>10000	1.5		7.30	4.71
0969232		<0.2	<0.005	3.88	0.2	2	0.3	2.0	>10000	1.5		8.03	4.76
0969233		<0.2	<0.005	1.86	0.6	11	0.4	4.3	>10000	0.8		1.320	4.58
0969234		<0.2	<0.005	3.66	0.2	6	0.4	2.7	>10000	1.6		4.67	4.63
0969235		<0.2	<0.005	4.65	<0.1	1	0.5	1.8	>10000	0.9		8.68	4.68
0969236		6.7	0.416	0.05	1.5	149	0.5	24.2	452	172.0			2.80
0969237		6.9	0.412	0.02	1.6	152	0.4	24.5	577	165.0			2.81
0969238		0.5	0.043	8.34	0.2	17	0.6	2.6	>10000	15.3		7.99	4.70
0969239		<0.2	0.007	8.79	<0.1	2	0.6	0.6	>10000	2.8		14.80	4.63
0969240		<0.2	0.011	4.73	<0.1	5	0.3	1.2	>10000	5.0	1.040	5.04	4.67
0969241		0.8	0.130	1.02	0.2	37	0.8	4.8	>10000	63.0		2.59	3.37
0969242		<0.2	<0.005	0.12	0.1	4	0.2	2.9	>10000	6.5	1.010	10.40	
0969243		1.1	0.240	0.15	0.3	51	0.3	5.9	959	27.7			2.75
0969244		0.2	0.038	3.94	0.1	11	0.4	1.3	>10000	15.0		4.78	4.38
0969245		<0.2	<0.005	0.50	<0.1	4	0.2	0.4	>10000	1.7		1.290	4.64
0969246		<0.2	<0.005	0.23	<0.1	3	0.1	0.4	>10000	<0.5		1.170	4.81
0969247		<0.2	0.006	0.51	<0.1	4	0.1	0.9	4870	2.9			4.69
0969248		<0.2	0.017	0.16	<0.1	6	0.2	1.1	4360	6.1			4.76
0969249		<0.2	0.024	0.31	0.1	10	0.2	5.0	>10000	9.6		2.20	3.93
0969250		0.2	0.028	0.22	0.1	9	0.2	4.9	>10000	18.0		1.160	3.86
0969251		0.7	0.264	1.50	0.6	74	1.0	4.5	908	203			3.34
0969252		<0.2	0.014	0.72	0.1	6	0.2	8.4	>10000	7.4	1.050	5.90	4.65
0969253		<0.2	0.010	0.37	<0.1	8	0.1	3.8	>10000	3.4	1.160	3.21	4.30
0969254		<0.2	0.016	0.23	0.2	15	0.1	24.1	>10000	7.8	1.710	1.735	4.26
0969255		<0.2	0.008	0.12	0.1	7	0.3	15.9	>10000	3.6	0.949	2.68	4.39
0969256		0.3	0.080	0.11	0.8	19	0.3	10.5	400	33.9			3.38
0969257		<0.2	0.005	0.18	0.2	12	0.1	4.2	287	2.6			4.23
0969258		<0.2	<0.005	0.05	0.6	14	0.1	4.8	377	<0.5			3.69
0969259		<0.2	0.009	0.03	7.7	173	0.2	83.7	4350	4.7			3.10
0969260		2.4	0.112	0.87	7.8	129	1.0	84.7	772	182.0			2.85
0969261		5.3	0.269	1.60	6.2	148	2.0	93.1	3180	457			2.90
0969262		5.7	0.202	0.15	5.0	107	1.4	86.7	1370	394			2.82
0969263		5.8	0.157	<0.02	2.0	27	1.6	69.5	526	429			2.92
0969264		3.3	0.125	0.03	0.9	11	0.8	37.6	336	281			3.84
0969265		2.4	0.234	<0.02	0.7	84	0.4	28.7	293	222			2.91
0969266		1.7	0.469	0.04	0.4	198	0.3	28.3	171	177.5			2.81

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date:
10-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10103425

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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Finalisée date:
10-AOUT-2010
Compte: NORMAT

CERTIFICAT VO10104280

Projet: MATAGAMI

Bon de commande #:

Ce rapport s'applique aux 25 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 30-JUIL-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
Ag-OG62	Teneur marchande Ag - quatre acides	VARIABLE
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Ag-AA46	Teneur marchande Ag - Aqua regia/AA	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Projet: MATAGAMI

Finalisée date: 10-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10104280

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Ag-AA46 Ag g/tonne t	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01
0969267		2.47	0.035	<0.2		0.009	0.083	0.067	2.87	0.22	7.11	17.2	10	0.57	0.12	0.99
0969268		6.01	0.034	6.4		0.051	0.469	16.95	4.30	6.83	0.14	832	10	<0.05	1.83	0.03
0969269		2.18	0.063	99.9		1.255	0.149	1.835	3.16	>100	5.85	182.6	10	0.13	227	0.14
0969270		4.57	0.182	>100	137	0.630	0.156	3.67	4.21	>100	0.49	434	10	<0.05	178.0	2.46
0969271		5.22	0.104	38.8		0.974	0.048	7.37	4.27	39.3	0.09	378	<10	<0.05	93.6	0.91
0969272		4.66	0.090	29.0		1.080	0.052	3.10	3.80	30.7	0.16	451	<10	0.16	30.1	2.01
0969273		4.77	0.100	9.5		0.486	0.028	5.41	4.43	11.35	0.05	486	10	0.47	12.80	1.78
0969274		5.30	0.156	15.1		1.415	0.055	2.21	4.68	18.35	0.22	511	20	0.24	12.35	1.14
0969275		4.52	0.360	56.1		3.55	0.054	3.76	3.99	62.7	0.06	296	<10	0.32	6.98	1.34
0969276		4.66	0.107	31.8		2.73	0.052	2.45	3.74	34.7	0.05	164.5	<10	0.36	7.16	3.82
0969277		5.25	0.180	18.5		1.255	0.144	4.82	4.13	19.15	0.05	274	<10	0.32	13.45	3.72
0969278		5.35	0.135	8.0		1.515	0.011	5.27	4.09	9.29	0.01	217	<10	0.23	1.45	3.85
0969279		0.08		10.5		1.020	0.030	9.80		11.80	0.12	100.5	<10	0.29	0.38	0.11
0969280		0.47	0.009	0.4		0.053	0.001	0.222	2.75	0.48	7.82	8.4	300	0.66	0.25	2.78
0969281		5.12	0.229	21.1		1.870	0.021	0.994	4.27	22.6	0.04	263	10	0.17	7.14	0.67
0969282		5.83	0.201	20.6		0.878	0.021	0.857	4.55	21.8	0.02	282	<10	0.18	8.62	1.27
0969283		5.61	0.226	22.8		0.659	0.016	1.805	4.45	24.2	0.01	347	<10	0.16	4.71	1.44
0969284		5.38	0.227	23.4		1.175	0.019	0.360	4.47	25.2	0.01	260	<10	0.22	6.94	1.02
0969285		5.65	0.222	26.4		0.446	0.024	0.335	4.55	29.3	0.01	277	<10	0.15	14.55	0.70
0969286		5.35	0.111	11.8		0.670	0.016	2.98	4.63	13.15	0.01	196.5	<10	0.19	5.72	1.54
0969287		6.74	0.174	18.6		1.535	0.010	0.279	4.53	21.9	0.60	174.0	<10	0.22	5.21	1.45
0969288		6.26	0.071	10.7		1.360	0.010	0.147	4.61	12.10	0.07	181.0	<10	0.15	4.04	0.75
0969289		3.29	0.051	5.2		0.210	0.012	0.244	4.16	6.45	2.24	152.5	10	0.43	2.03	2.08
0969290		3.26	0.062	3.0		0.147	0.016	0.085	4.07	3.68	1.98	126.5	70	0.75	1.32	1.43
0969291		2.90	0.008	<0.2		0.030	0.003	0.050	2.91	0.49	6.45	21.5	<10	0.67	0.13	1.02

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À: XSTRATA ZINC CANADA EXPLORATION
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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 10-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10104280

Description échantillon	Méthode élément unités LD.	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01
0969267		0.70	13.35	36.1	61	0.16	9.5	12.95	30.4	0.25	3.5	0.159	0.01	4.9	12.6	5.92
0969268		371	0.62	35.0	4	0.22	513	28.0	11.20	0.35	<0.1	94.4	0.01	<0.5	0.2	0.06
0969269		40.1	18.90	172.0	35	0.68	>10000	21.2	141.5	0.49	2.5	16.50	0.05	7.6	0.5	3.65
0969270		68.8	8.65	654	2	1.31	6370	35.1	69.0	0.92	0.2	25.0	0.09	4.2	0.2	0.48
0969271		150.5	3.11	356	1	0.26	10000	40.5	57.3	0.63	<0.1	42.4	0.02	1.4	<0.2	0.29
0969272		61.9	4.10	500	<1	0.65	>10000	36.7	67.0	0.89	<0.1	37.7	0.06	1.9	0.2	1.09
0969273		96.6	2.85	406	<1	0.23	4960	41.9	56.8	1.40	<0.1	37.3	0.03	1.6	1.6	0.46
0969274		53.5	4.14	413	<1	0.86	>10000	39.5	39.6	2.19	0.1	26.3	0.07	2.1	0.2	0.53
0969275		81.7	8.04	494	<1	0.28	>10000	36.5	27.5	7.40	<0.1	42.3	0.04	3.7	0.2	1.06
0969276		48.8	8.01	180.0	<1	0.16	>10000	30.6	23.7	1.80	<0.1	21.4	0.04	4.2	0.2	1.68
0969277		94.1	6.26	250	<1	0.23	>10000	38.7	25.8	2.41	<0.1	49.4	0.02	2.8	0.2	1.36
0969278		111.0	4.56	241	<1	<0.05	>10000	35.9	16.15	1.50	<0.1	18.15	0.01	2.7	0.2	1.47
0969279		189.0	8.23	133.5	41	<0.05	>10000	39.6	48.1	2.50	0.2	21.9	0.01	3.7	<0.2	1.06
0969280		4.53	15.95	16.3	24	0.60	552	3.52	22.2	<0.05	1.0	0.808	0.89	7.4	10.5	0.99
0969281		21.3	3.52	516	<1	0.06	>10000	39.1	6.88	2.32	<0.1	25.4	0.02	1.8	0.2	0.37
0969282		18.80	4.66	195.5	<1	0.07	8870	41.1	13.85	2.12	<0.1	24.5	0.02	2.3	<0.2	0.51
0969283		40.5	2.57	103.0	<1	<0.05	5660	39.7	9.74	2.03	<0.1	36.2	0.01	1.3	<0.2	0.37
0969284		8.82	3.10	172.0	<1	<0.05	>10000	40.4	9.65	2.07	<0.1	32.9	0.01	1.8	0.2	0.52
0969285		8.81	2.29	159.0	<1	<0.05	4580	41.3	4.94	1.86	<0.1	7.20	0.01	1.2	0.2	0.28
0969286		80.6	5.17	185.0	<1	0.05	6960	41.4	13.55	1.98	<0.1	29.3	0.01	2.6	<0.2	0.71
0969287		7.17	9.52	281	<1	0.12	>10000	40.4	19.60	2.56	0.4	8.79	0.01	4.5	<0.2	0.96
0969288		4.37	7.11	307	<1	0.14	>10000	43.5	4.88	2.13	0.1	6.84	0.02	3.7	<0.2	0.37
0969289		27.4	18.00	216	<1	0.54	2430	37.3	21.5	1.63	1.7	3.05	0.06	9.1	0.5	1.97
0969290		5.11	17.15	60.3	<1	0.60	1440	37.7	11.05	1.88	1.7	2.21	0.09	8.5	1.2	1.92
0969291		0.69	15.15	34.8	54	0.08	263	15.45	21.2	0.43	2.9	0.794	0.01	8.7	3.7	5.66

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500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 10-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10104280

Description échantillon	Méthode élément unités L.D.	MF-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	MF-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	MF-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	MF-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	MF-MS61 Sr ppm 0.2
0969267		2180	0.55	0.02	6.1	48.6	760	690	0.7	<0.002	0.09	0.63	30.7	3	10.2	9.2
0969268		208	0.43	0.01	0.6	2.4	20	4900	0.8	<0.002	>10.0	26.6	0.2	13	13.3	3.3
0969269		2640	25.7	0.01	4.3	47.5	560	1565	2.9	<0.002	6.94	4.46	10.3	51	6.9	5.2
0969270		1460	27.8	0.03	0.8	20.0	120	1570	3.8	0.002	>10.0	22.8	1.3	150	8.7	13.9
0969271		726	13.25	0.01	0.6	7.8	20	466	0.7	<0.002	>10.0	17.20	0.3	74	15.8	5.0
0969272		1670	2.90	0.01	0.7	7.8	50	501	2.2	<0.002	>10.0	18.25	0.6	137	9.5	15.1
0969273		731	1.29	<0.01	1.3	8.5	40	258	0.5	0.003	>10.0	13.45	0.7	90	13.9	12.3
0969274		846	1.49	0.02	1.8	6.0	50	529	3.3	0.004	>10.0	13.10	1.1	262	8.7	10.2
0969275		1310	1.24	0.01	1.5	4.0	280	524	1.3	0.002	>10.0	8.40	0.7	395	7.8	7.3
0969276		3010	0.96	<0.01	1.3	2.9	580	465	0.9	0.003	>10.0	5.88	1.5	283	8.4	19.6
0969277		2860	0.68	0.01	1.6	3.5	560	1340	1.0	0.003	>10.0	7.68	1.9	353	6.5	14.2
0969278		3530	0.84	<0.01	1.3	2.6	50	73.5	0.4	0.002	>10.0	4.96	0.5	134	3.7	13.6
0969279		155	1.19	0.01	1.9	2.5	30	275	0.2	0.002	>10.0	4.39	0.5	357	3.0	3.4
0969280		462	0.40	3.30	3.1	16.1	390	11.0	28.7	<0.002	0.99	0.26	6.3	6	0.7	344
0969281		835	1.08	0.01	1.7	3.4	20	176.5	0.3	0.003	>10.0	3.81	0.6	298	5.1	4.0
0969282		1210	0.83	<0.01	1.4	2.2	20	175.5	0.4	0.004	>10.0	3.48	0.6	277	3.0	6.3
0969283		1250	0.64	<0.01	1.6	1.1	20	120.5	0.2	0.003	>10.0	3.96	0.5	236	4.1	7.5
0969284		1000	3.01	<0.01	1.7	1.8	30	161.0	0.2	0.005	>10.0	3.77	0.5	222	5.2	5.3
0969285		500	3.56	<0.01	1.9	1.1	10	202	0.2	0.003	>10.0	3.79	0.5	159	2.1	4.1
0969286		1140	1.40	<0.01	2.0	1.8	30	120.0	0.2	0.003	>10.0	1.90	0.5	198	3.9	8.8
0969287		1300	2.80	<0.01	2.3	2.8	90	70.7	0.5	0.003	>10.0	1.85	1.3	336	4.9	8.9
0969288		690	1.91	<0.01	1.8	2.1	20	56.8	0.7	0.003	>10.0	1.54	0.5	249	4.5	6.2
0969289		684	1.24	0.01	3.6	3.8	90	97.6	2.5	0.003	>10.0	1.43	5.0	152	5.4	15.4
0969290		764	1.32	0.02	3.7	4.6	60	146.0	3.8	0.002	>10.0	1.04	4.9	224	3.8	13.7
0969291		1530	3.30	<0.01	5.1	37.5	500	10.5	0.3	0.004	0.79	0.31	67.2	6	9.8	8.9

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date:
10-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10104280

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
0969267		0.41	0.14	1.4	0.748	<0.02	0.4	219	0.7	33.1	840	138.5			
0969268		<0.05	5.89	<0.2	0.010	7.84	<0.1	4	0.7	0.6	>10000	2.0			17.30
0969269		0.28	294	1.2	0.287	0.36	0.7	102	1.7	11.1	>10000	105.5	118	1.140	1.760
0969270		<0.05	>500	<0.2	0.025	1.76	0.6	18	1.8	4.4	>10000	8.0	130		3.75
0969271		<0.05	237	<0.2	0.005	3.51	0.2	7	4.7	1.5	>10000	1.0		0.964	7.71
0969272		<0.05	157.0	<0.2	0.005	1.82	0.2	7	0.5	4.3	>10000	1.7		1.045	3.16
0969273		<0.05	85.3	<0.2	<0.005	1.96	0.1	<1	0.5	3.8	>10000	0.7			5.59
0969274		<0.05	278	<0.2	0.010	1.19	0.1	3	0.3	3.4	>10000	4.2		1.395	2.12
0969275		<0.05	343	<0.2	<0.005	0.59	<0.1	<1	0.2	3.4	>10000	0.7		3.60	3.92
0969276		<0.05	303	<0.2	<0.005	0.36	0.1	1	0.1	4.0	>10000	0.7		2.73	2.43
0969277		<0.05	>500	<0.2	<0.005	0.56	0.1	2	0.2	3.5	>10000	0.8		1.260	4.96
0969278		<0.05	104.0	<0.2	<0.005	0.87	<0.1	<1	0.2	3.4	>10000	<0.5		1.460	5.36
0969279		<0.05	226	<0.2	<0.005	0.13	0.1	<1	0.2	3.0	>10000	5.8		0.996	10.90
0969280		0.20	4.74	1.2	0.222	0.12	0.3	46	0.7	6.2	2460	24.4			
0969281		<0.05	280	<0.2	<0.005	0.89	0.1	1	0.2	2.4	9090	0.6		1.870	
0969282		<0.05	270	<0.2	<0.005	1.14	0.1	1	0.2	2.5	7910	0.8			
0969283		<0.05	240	<0.2	<0.005	1.28	0.1	<1	0.1	1.6	>10000	<0.5			1.800
0969284		<0.05	271	<0.2	<0.005	1.39	0.2	1	0.2	1.6	3350	<0.5		1.160	
0969285		<0.05	313	<0.2	<0.005	1.36	0.1	<1	0.1	1.2	3420	<0.5			
0969286		<0.05	183.0	<0.2	<0.005	0.29	0.1	<1	0.1	2.8	>10000	<0.5			3.00
0969287		<0.05	164.5	0.2	0.033	0.54	0.1	4	0.3	4.0	2580	12.9		1.576	
0969288		<0.05	129.0	<0.2	<0.005	0.41	<0.1	<1	0.1	2.6	1200	1.4		1.345	
0969289		0.15	89.1	0.7	0.117	0.14	0.3	18	0.5	11.4	2670	59.8			
0969290		0.15	116.5	0.7	0.117	0.07	0.2	23	0.3	11.4	656	56.7			
0969291		0.28	7.10	0.9	0.615	0.02	0.2	284	1.4	15.4	493	94.1			

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

ALS Canada Ltd.
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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date:
10-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10104280

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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À: XSTRATA ZINC CANADA EXPLORATION
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MATAGAMI QC J0Y 2A0

Finalisée date:
18-AOUT-2010
Compte: NORMAT

CERTIFICAT VO10105660

Projet: MATAGAMI

Bon de commande #:

Ce rapport s'applique aux 19 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 3-AOUT-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
OA-GRA08	Densité relative - échantillon global	WST-SEQ
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10105660

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1
0969292		1.57	0.010	3.4	0.015	4.16	7.24	52.9	90	0.58	0.19	0.90	0.40	32.9	43.0	48
0969293		3.90	0.081	54.6	0.097	60.8	0.12	247	10	0.12	1.93	0.18	949	1.43	61.8	2
0969294		4.01	0.037	7.8	0.229	8.07	0.30	461	10	<0.05	0.35	0.02	606	0.58	99.2	2
0969295		3.88	0.083	39.9	0.235	46.8	0.67	671	20	<0.05	0.07	0.02	149.0	6.80	21.5	4
0969296		1.98	0.012	0.8	0.007	1.37	6.23	34.8	<10	0.26	0.07	0.04	9.80	24.3	14.4	43
0969297		2.90	0.014	1.0	0.061	1.68	7.33	42.1	<10	0.37	0.89	0.09	3.35	24.5	25.6	29
0969298		4.98	0.118	5.1	0.251	5.56	0.16	128.0	10	0.30	2.48	0.41	0.69	6.56	200	<1
0969299		0.10		9.6	1.015	10.20	0.13	79.9	10	0.11	0.38	0.10	195.5	11.15	113.0	44
0969300		0.56	0.025	<0.2	0.010	0.23	8.19	4.6	330	0.76	0.14	3.14	0.59	19.85	16.0	25
0969301		2.02	0.013	<0.2	0.005	0.08	7.46	25.6	240	0.50	0.05	4.18	0.14	21.1	28.6	71
0969302		1.85	<0.005	<0.2	0.004	0.04	7.73	15.1	110	0.42	0.19	3.61	0.11	19.60	27.1	85
0969303		3.40	0.036	2.4	0.283	2.49	0.50	79.9	<10	0.21	156.0	9.86	1.91	45.6	109.5	1
0969304		6.28	0.171	14.5	1.070	14.70	0.09	190.0	<10	0.06	34.4	1.01	5.61	9.93	672	1
0969305		5.61	0.170	13.1	0.294	13.50	0.34	181.5	10	<0.05	8.42	0.67	5.38	13.40	477	3
0969306		3.30	0.131	10.3	0.594	10.10	0.63	157.0	10	0.05	10.55	0.64	2.29	7.29	507	2
0969307		3.21	0.138	10.1	0.659	10.95	0.79	130.5	<10	0.08	7.66	2.38	1.10	14.50	669	<1
0969308		4.69	0.030	2.5	0.219	3.13	4.61	131.5	<10	0.17	2.97	0.64	0.51	30.8	359	2
0969309		4.01	0.016	0.7	1.185	1.27	4.07	266	10	0.36	5.67	0.17	1.29	28.4	811	1
0969310		2.73	<0.005	<0.2	0.010	0.07	5.66	21.4	<10	0.31	0.82	0.21	0.22	31.0	41.4	17

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10105660

Description échantillon	Méthode élément unités L.D.	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1
0969292		0.29	141.5	10.75	27.7	0.22	4.8	0.378	0.43	14.9	20.0	5.62	1660	0.93	0.03	12.3
0969293		0.09	920	20.7	157.0	0.39	0.1	145.0	0.01	0.7	0.2	0.09	406	3.22	<0.01	0.5
0969294		0.19	7310	27.4	114.0	0.45	0.2	155.0	0.02	0.5	0.2	0.22	331	0.72	<0.01	0.7
0969295		0.18	2520	36.9	15.55	0.49	0.3	26.8	0.01	3.9	0.5	0.38	388	0.34	0.01	1.0
0969296		0.05	71.0	19.65	24.8	0.68	4.1	4.28	<0.01	12.5	5.6	5.34	2890	0.78	<0.01	2.7
0969297		0.18	668	22.6	25.5	0.86	4.0	2.34	<0.01	12.8	1.5	7.64	2120	1.08	<0.01	4.6
0969298		0.16	2560	45.3	4.87	1.29	0.1	2.47	0.01	3.5	0.2	0.86	298	2.77	0.01	0.9
0969299		<0.05	>10000	41.2	42.6	1.42	0.2	22.4	<0.01	5.0	<0.2	1.12	185	0.77	0.01	1.0
0969300		0.49	109.0	3.63	24.1	0.11	1.0	0.198	0.78	9.0	12.7	0.98	408	0.20	3.14	3.2
0969301		0.69	46.7	6.55	16.60	0.13	2.5	0.290	1.66	9.9	16.0	3.07	2140	0.68	0.38	4.0
0969302		0.47	48.5	6.61	17.75	0.10	2.6	0.133	0.80	8.8	19.5	3.91	1330	0.77	1.44	4.4
0969303		<0.05	2830	17.75	13.80	0.33	0.1	2.07	0.01	21.5	0.9	7.81	3930	38.1	0.02	0.4
0969304		<0.05	>10000	43.3	4.50	1.40	<0.1	15.35	<0.01	4.1	0.3	1.76	629	21.2	0.01	0.8
0969305		0.07	2980	43.0	7.02	0.90	0.2	5.92	0.01	6.5	0.2	0.98	474	2.03	0.01	1.0
0969306		0.09	6490	44.4	4.37	1.09	0.4	6.03	0.01	3.7	<0.2	0.89	578	2.83	<0.01	1.3
0969307		<0.05	7170	40.2	3.93	1.43	0.5	2.77	<0.01	7.1	<0.2	1.76	2380	5.15	<0.01	1.3
0969308		0.06	2220	33.8	24.7	1.03	2.9	0.719	0.01	16.3	0.3	4.51	1240	4.40	0.01	4.0
0969309		0.32	>10000	40.7	30.3	1.09	2.6	0.801	0.03	14.5	0.2	3.37	977	4.38	0.01	3.9
0969310		0.11	63.8	15.60	22.4	0.20	4.2	0.116	0.01	13.1	0.8	5.57	1530	0.43	<0.01	8.1

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION – MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date:
18-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10105660

Description échantillon	Méthode élément unités LdD	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005
0969292		35.2	630	71.3	16.2	0.002	0.64	0.60	35.4	3	18.9	7.6	0.71	7.21	1.8	0.761
0969293		3.9	<10	195.5	0.5	<0.002	>10.0	11.75	0.4	43	5.8	3.1	<0.05	137.5	<0.2	0.015
0969294		3.0	10	173.0	0.8	<0.002	>10.0	15.60	0.4	48	7.5	1.9	<0.05	46.8	0.2	0.017
0969295		3.8	<10	214	0.6	<0.002	>10.0	21.2	0.8	39	5.6	1.8	<0.05	96.2	0.2	0.024
0969296		42.6	140	147.5	0.2	<0.002	6.16	1.38	7.8	27	9.5	1.3	0.20	69.9	1.7	0.172
0969297		33.2	550	151.5	0.2	0.002	8.42	1.64	11.3	39	9.4	1.7	0.32	72.2	2.3	0.286
0969298		2.5	40	395	0.5	<0.002	>10.0	9.34	0.3	249	4.1	4.8	<0.05	267	<0.2	0.005
0969299		2.2	20	303	0.1	<0.002	>10.0	4.88	0.1	325	3.2	2.9	<0.05	230	<0.2	<0.005
0969300		17.2	400	14.7	24.3	<0.002	1.16	0.40	5.1	8	0.8	478	0.20	6.80	1.1	0.230
0969301		90.0	780	6.1	51.6	<0.002	0.27	0.33	15.4	3	4.1	49.7	0.27	2.34	1.0	0.394
0969302		104.0	820	1.4	18.0	<0.002	0.08	0.30	10.1	1	3.9	72.6	0.30	1.11	0.9	0.433
0969303		9.8	740	31.1	0.4	0.028	>10.0	4.31	1.5	34	1.3	42.0	<0.05	179.0	<0.2	0.008
0969304		3.0	40	107.5	0.1	0.002	>10.0	4.94	0.2	293	2.5	6.9	<0.05	204	<0.2	<0.005
0969305		2.8	30	56.0	0.5	<0.002	>10.0	2.16	0.3	164	3.6	5.4	<0.05	134.0	<0.2	0.021
0969306		1.9	60	56.2	0.3	<0.002	>10.0	1.92	1.6	219	2.1	4.8	0.05	131.5	0.2	0.085
0969307		2.0	20	47.7	0.1	<0.002	>10.0	1.80	0.7	315	1.8	16.5	<0.05	124.0	0.2	0.044
0969308		4.5	50	33.1	0.4	<0.002	>10.0	0.94	5.6	208	3.6	6.1	0.25	34.3	1.5	0.224
0969309		5.4	90	5.5	1.1	0.002	>10.0	1.14	4.9	165	5.4	5.1	0.23	8.00	1.4	0.204
0969310		13.4	020	1.4	0.3	<0.002	0.25	0.21	29.0	3	2.5	3.3	0.55	0.85	1.1	0.902

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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MATAGAMI QC J0Y 2A0

Projet: MATAGAMI

Finalisée date: 18-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10105660

Description échantillon	Méthode élément unités L.D.	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001	OA-GRA08 S.G. Unity 0.01
0969292		0.45	0.4	260	0.4	53.8	511	164.5			2.88
0969293		1.78	<0.1	4	0.3	1.6	>10000	4.2		>30.0	4.34
0969294		1.64	0.1	6	0.3	0.8	>10000	7.0		22.9	4.48
0969295		3.77	0.1	10	0.2	1.0	>10000	11.4		8.58	4.57
0969296		0.06	0.5	102	0.6	11.3	4660	158.0			3.14
0969297		0.04	0.6	95	0.5	12.3	1770	155.0			3.24
0969298		0.12	0.1	6	0.1	1.8	326	2.8			4.56
0969299		0.11	0.1	5	0.2	2.3	>10000	5.9	1.025	10.20	
0969300		0.08	0.3	51	0.2	6.3	347	28.7			2.81
0969301		1.19	0.3	105	0.4	12.4	278	96.4			2.76
0969302		0.48	0.3	115	0.5	12.0	297	98.5			2.77
0969303		0.08	1.1	22	0.1	13.6	720	1.8			3.14
0969304		0.42	0.6	9	0.1	2.5	2080	0.7	1.050		4.49
0969305		0.43	0.1	9	0.2	1.4	2140	7.0			4.62
0969306		0.49	0.1	21	0.5	2.0	903	13.3			4.51
0969307		0.22	0.1	12	0.3	3.7	378	17.0			4.41
0969308		0.04	0.4	38	1.2	8.5	308	112.0			3.76
0969309		0.02	0.5	34	0.9	6.6	540	102.0	1.205		3.67
0969310		<0.02	0.3	203	0.4	18.6	369	134.0			2.91

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
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Projet: MATAGAMI

Finalisée date:
18-AOUT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10105660

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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Finalisée date: 1-NOV-2010
Compte: NORMAT

CERTIFICAT VO10145109

Projet: 642

Bon de commande #:

Ce rapport s'applique aux 18 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-OCT-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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À: XSTRATA ZINC CANADA EXPLORATION
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Projet: 642

Finalisée date: 1-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10145109

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02
0967901		2.58	<0.005	<0.2	0.006	<0.001	0.021	2.76	0.04	7.64	7.2	130	0.49	0.05	3.53	0.03
0967902		3.92	0.157	9.5	1.225	0.011	0.055	3.42	9.90	5.49	121.0	10	0.40	56.1	0.14	3.89
0967903		3.94	0.060	2.1	0.207	0.008	0.039	3.27	2.39	4.36	75.8	<10	0.17	2.98	0.02	1.70
0967904		3.69	0.059	1.3	0.237	0.006	0.029	2.95	1.87	3.99	73.1	<10	0.22	1.59	0.02	0.79
0967905		3.45	0.015	0.3	0.065	0.002	0.026	2.83	0.65	4.22	26.3	10	0.32	3.63	1.56	0.21
0967906		3.48	0.017	0.3	0.069	0.002	0.017	2.92	0.85	3.00	22.3	10	0.21	0.68	0.31	0.23
0967907		3.35	0.017	<0.2	0.066	0.004	0.019	3.11	0.53	3.44	28.0	<10	0.20	0.76	0.04	0.39
0967908		3.64	0.020	0.5	0.244	0.005	0.020	3.13	1.07	3.89	28.8	<10	0.23	0.84	0.11	0.34
0967909		3.86	0.025	1.1	0.396	0.005	0.021	2.94	1.76	4.88	36.3	<10	0.81	2.26	0.85	0.41
0967910		2.93	<0.005	<0.2	0.033	0.003	0.025	2.85	0.30	6.21	14.8	<10	0.36	1.53	1.98	0.11
0967911		0.09		10.4	0.976	0.031	9.41		10.50	0.14	96.3	10	0.10	0.37	0.10	180.0
0967912		0.57	<0.005	<0.2	0.004	0.001	0.008	2.77	0.08	7.66	0.3	300	0.62	0.07	3.00	0.47
0967913		2.40	<0.005	<0.2	0.014	0.002	0.026	2.82	0.15	6.00	0.6	<10	0.44	0.67	2.49	0.13
0967914		2.66	<0.005	<0.2	0.008	0.001	0.021	2.78	0.15	5.06	<0.2	<10	0.79	2.35	0.85	0.18
0967915		3.22	<0.005	<0.2	0.017	0.004	0.023	2.80	0.16	5.13	2.5	<10	0.66	0.34	1.92	0.38
0967916		3.52	0.010	0.3	0.185	0.001	0.028	2.91	0.70	5.76	9.2	10	0.63	0.64	0.04	1.68
0967917		1.88	0.009	0.5	0.211	0.002	0.027	3.08	0.98	6.18	31.7	<10	0.51	4.93	0.12	0.88
0967918		2.24	<0.005	<0.2	0.008	0.001	0.018	2.76	0.08	7.69	6.1	50	0.42	1.60	2.61	0.09

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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Projet: 642

Finalisée date: 1-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10145109

Description échantillon	Méthode élément unités LDL	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5
0967901		20.6	22.7	30	0.23	45.6	7.96	16.55	0.12	2.5	0.060	0.59	9.1	28.7	3.84	1180
0967902		93.6	344	6	0.11	>10000	24.2	36.1	0.67	6.7	3.69	0.03	45.8	21.8	3.13	752
0967903		50.1	173.0	1	0.06	1995	21.7	33.5	0.55	7.5	0.532	0.01	23.5	16.8	2.03	568
0967904		56.1	166.5	1	0.05	2210	18.75	25.4	0.49	6.8	0.743	0.01	26.8	11.2	1.91	469
0967905		42.6	64.2	112	0.07	601	11.05	20.6	0.30	5.5	0.282	0.01	19.4	16.2	2.89	519
0967906		32.3	68.3	13	0.05	605	12.25	15.30	0.32	5.1	0.264	0.02	14.4	6.6	1.88	332
0967907		67.4	101.5	1	<0.05	604	14.60	19.20	0.39	6.0	0.272	0.01	31.9	6.5	2.10	329
0967908		56.0	68.9	2	0.05	2280	16.65	19.40	0.53	6.2	1.060	0.01	26.1	2.5	3.61	324
0967909		45.9	118.0	1	0.10	3830	15.20	26.1	0.75	11.3	1.380	<0.01	19.2	9.0	7.99	591
0967910		23.7	56.3	68	0.09	296	11.70	21.6	0.34	3.7	0.170	<0.01	9.8	29.6	4.72	949
0967911		10.30	120.0	47	<0.05	>10000	40.7	38.9	1.67	0.2	23.2	<0.01	4.4	<0.2	1.07	153
0967912		21.4	11.7	19	0.46	52.5	2.51	22.5	0.13	1.1	0.070	0.74	9.3	10.6	1.00	359
0967913		30.0	43.2	58	0.09	118.0	10.25	20.0	0.27	3.3	0.154	0.01	12.4	14.4	5.35	774
0967914		69.8	5.0	6	0.12	64.4	8.66	16.45	0.24	9.0	0.181	<0.01	31.0	4.5	5.95	428
0967915		66.8	6.2	3	0.13	127.5	8.98	15.40	0.26	8.5	0.351	<0.01	30.4	2.4	6.82	442
0967916		93.7	50.1	2	0.22	1035	13.05	23.5	0.61	10.7	0.657	<0.01	42.4	5.3	7.78	430
0967917		113.0	156.5	1	0.35	2150	15.35	36.8	0.81	10.0	0.674	<0.01	54.3	8.4	7.27	431
0967918		28.0	31.5	67	0.18	56.5	8.53	20.3	0.18	3.0	0.092	0.28	14.2	14.8	4.17	441

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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Projet: 642

CERTIFICAT D'ANALYSE VO10145109

Description échantillon	Méthode élément unités LIB.	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05
0967901		0.59	1.37	2.9	31.2	620	0.9	11.0	<0.002	0.07	0.12	19.2	1	1.2	55.6	0.22
0967902		63.2	0.02	9.1	4.6	120	101.0	1.2	0.003	>10.0	1.96	7.9	96	4.6	2.8	0.76
0967903		7.65	<0.01	7.8	1.2	40	66.5	0.4	<0.002	>10.0	1.58	7.6	53	3.0	1.1	0.57
0967904		9.64	<0.01	8.2	1.2	30	47.2	0.2	<0.002	>10.0	1.43	6.2	46	3.6	1.0	0.63
0967905		7.10	0.09	5.7	73.6	170	14.6	0.5	<0.002	3.76	0.54	10.0	18	2.3	32.4	0.41
0967906		4.33	<0.01	5.4	5.9	180	17.4	0.5	<0.002	6.98	0.68	4.6	34	2.3	6.4	0.41
0967907		7.27	<0.01	6.1	0.8	70	17.8	0.4	<0.002	8.20	0.73	5.3	30	3.2	1.2	0.46
0967908		5.29	<0.01	9.8	1.2	170	29.7	0.2	<0.002	>10.0	1.05	5.8	45	3.5	1.8	0.70
0967909		3.27	<0.01	10.7	2.6	110	24.5	0.1	<0.002	4.44	0.85	6.2	43	2.9	13.0	0.82
0967910		0.45	0.46	2.9	45.2	510	5.4	0.1	<0.002	0.33	0.19	46.4	5	1.2	33.5	0.22
0967911		0.88	0.02	0.9	2.6	20	288	0.2	<0.002	>10.0	5.02	0.1	393	3.8	3.0	<0.05
0967912		0.14	3.33	3.2	18.1	410	5.2	22.2	<0.002	0.10	0.09	5.7	2	0.6	412	0.23
0967913		0.68	0.48	5.6	42.2	460	1.7	0.3	<0.002	0.35	0.24	47.0	3	4.6	41.1	0.36
0967914		1.68	<0.01	9.1	3.5	190	2.7	0.2	<0.002	0.36	0.18	10.6	3	2.4	11.3	0.67
0967915		1.00	<0.01	6.8	1.5	180	10.5	0.2	<0.002	2.26	0.23	8.0	7	1.4	14.1	0.48
0967916		1.58	<0.01	9.0	2.7	110	10.2	0.3	<0.002	2.69	0.68	7.1	31	3.1	2.4	0.65
0967917		7.49	<0.01	11.9	2.7	90	8.5	0.2	0.004	5.22	0.46	8.5	18	4.0	2.5	0.87
0967918		1.11	2.57	3.9	95.4	440	1.6	4.0	<0.002	0.07	0.16	15.7	1	1.6	109.5	0.28

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 1-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10145109

Description échantillon	Méthode élément unités L.D.	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
0967901		0.05	1.0	0.321	0.17	0.3	144	0.3	17.9	198	93.5		
0967902		108.0	4.0	0.134	0.76	1.8	19	0.5	41.5	513	269	1.225	
0967903		45.2	3.6	0.091	0.81	0.8	6	0.4	32.9	363	225		
0967904		31.5	3.1	0.099	0.57	0.7	5	0.3	29.1	267	195.0		
0967905		10.10	2.5	0.091	0.19	0.8	31	0.2	24.9	231	160.0		
0967906		12.25	2.1	0.068	0.02	0.5	8	0.3	22.1	145	142.0		
0967907		11.75	2.7	0.084	0.03	0.6	4	0.2	28.6	179	172.5		
0967908		19.90	2.8	0.112	0.02	0.7	4	0.2	27.7	181	181.5		
0967909		9.11	3.8	0.138	0.05	1.1	11	0.2	46.3	202	297		
0967910		1.86	0.8	0.320	<0.02	0.2	291	0.3	29.6	205	101.0		
0967911		209	<0.2	<0.005	0.14	0.1	3	0.2	2.7	>10000	6.0	0.983	9.95
0967912		0.49	1.3	0.237	0.08	0.3	51	0.1	8.7	286	24.4		
0967913		0.47	0.8	0.839	<0.02	0.2	288	0.2	26.5	244	91.9		
0967914		1.28	3.5	0.143	<0.02	0.8	29	0.1	43.2	201	246		
0967915		0.60	3.3	0.093	<0.02	0.8	10	0.1	32.3	166	244		
0967916		5.86	3.6	0.116	0.03	1.2	14	0.3	38.4	274	356		
0967917		6.68	3.9	0.150	<0.02	1.2	12	0.5	41.2	259	331		
0967918		1.88	1.4	0.300	0.09	0.4	118	0.2	11.5	165	106.0		

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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Projet: 642

Finalisée date: 1-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10145109

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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Finalisée date: 27-OCT-2010
Compte: NORMAT

CERTIFICAT VO10145108

Projet: 642
Bon de commande #:
Ce rapport s'applique aux 11 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 6-OCT-2010.
Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 27-OCT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10145108

Description échantillon	Méthode élément unités L.D.	WT-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02
0967919		2.72	<0.005	<0.2	0.003	<0.001	0.010	2.73	0.01	8.41	1.0	50	0.60	0.03	2.91	0.05
0967920		2.59	0.005	0.9	0.216	0.002	0.015	2.83	1.24	5.85	5.5	<10	1.09	2.93	3.36	0.28
0967921		3.37	<0.005	<0.2	0.002	0.001	0.012	2.77	<0.01	5.47	0.7	<10	2.07	0.04	1.11	0.10
0967922		3.12	<0.005	<0.2	0.003	0.002	0.012	2.76	<0.01	5.11	0.8	<10	1.71	0.06	4.31	0.10
0967923		3.44	<0.005	<0.2	0.006	0.001	0.013	2.79	<0.01	5.93	0.3	10	1.52	0.09	4.78	0.06
0967924		3.19	<0.005	<0.2	0.004	0.001	0.014	2.78	<0.01	5.41	0.8	<10	0.92	0.04	7.23	0.07
0967925		3.61	<0.005	<0.2	0.004	0.001	0.031	2.81	<0.01	5.99	2.2	<10	1.30	0.08	0.53	0.31
0967926		2.72	0.006	<0.2	0.003	0.001	0.028	2.79	0.11	6.38	2.1	10	0.69	0.08	1.21	0.09
0967927		1.51	<0.005	<0.2	0.007	0.001	0.026	2.81	0.02	6.97	2.0	30	0.70	0.04	3.01	0.07
0967928		0.10		9.1	0.934	0.030	0.68		10.25	0.13	95.8	<10	0.16	0.34	0.11	183.0
0967929		0.46	0.005	<0.2	0.005	<0.001	0.021	2.76	0.03	7.26	2.1	320	0.85	0.05	2.84	0.15

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
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MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 27-OCT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10145108

Description échantillon	Méthode élément unités LnD	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5
0967919		18.95	24.7	38	0.17	16.8	5.55	16.95	0.07	2.4	0.041	0.10	8.9	20.9	3.36	832
0967920		62.5	32.5	139	0.18	2090	8.92	17.50	0.22	7.6	0.223	0.01	29.6	7.3	8.07	769
0967921		57.5	2.4	2	0.11	4.6	7.40	15.85	0.16	8.5	0.084	0.01	26.5	3.8	8.36	533
0967922		61.5	6.2	37	0.16	18.4	6.31	14.80	0.11	7.6	0.072	0.01	25.3	5.2	7.43	739
0967923		85.8	15.4	132	0.21	45.4	7.81	16.40	0.21	7.4	0.078	0.01	37.4	13.8	7.33	861
0967924		106.0	28.5	413	0.16	34.8	6.99	13.75	0.19	5.2	0.061	<0.01	45.8	8.3	7.32	878
0967925		53.6	4.1	2	0.13	34.6	9.88	17.45	0.18	9.4	0.243	0.01	25.1	8.6	7.18	693
0967926		41.6	12.0	19	0.14	18.1	9.59	16.30	0.16	7.2	0.182	0.03	20.7	18.5	5.82	830
0967927		35.0	23.7	41	0.14	57.9	9.41	20.2	0.18	5.4	0.164	0.09	16.2	20.2	4.32	1060
0967928		9.02	122.0	48	<0.05	>10000	40.9	45.0	2.02	0.2	22.8	0.01	4.1	0.5	1.05	157
0967929		18.00	8.8	18	0.52	21.8	2.41	20.3	0.08	1.2	0.044	0.84	7.6	8.2	0.93	365

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Projet: 642

Finalisée date: 27-OCT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10145108

Description échantillon	Méthode élément unités L.D.	MF-MS61 Mo ppm 0.05	MF-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	MF-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	MF-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05
0967919		0.67	3.58	3.6	52.5	550	3.5	2.2	0.002	0.01	0.19	21.4	<1	1.4	107.5	0.25
0967920		3.44	0.01	12.7	57.2	770	10.6	0.6	<0.002	1.45	0.43	14.7	13	2.7	45.6	0.92
0967921		0.42	0.01	14.6	1.1	210	1.4	0.6	<0.002	0.11	0.21	8.6	1	2.8	15.4	1.08
0967922		0.43	0.01	12.3	26.3	250	1.6	0.6	<0.002	0.28	0.23	8.0	1	2.7	52.9	0.92
0967923		1.09	0.06	12.1	47.5	1100	3.3	0.6	<0.002	0.62	0.37	13.7	1	2.4	166.0	0.84
0967924		0.26	0.01	8.4	176.0	1880	4.0	0.4	<0.002	0.47	0.38	22.6	1	1.4	160.0	0.56
0967925		0.55	<0.01	15.6	2.0	160	3.9	0.4	<0.002	0.97	0.52	9.6	2	3.6	7.3	1.15
0967926		0.55	0.60	11.8	19.7	230	12.7	1.2	<0.002	1.70	0.52	11.8	2	3.0	31.8	0.87
0967927		1.74	1.12	11.8	27.0	590	2.4	3.6	0.002	0.41	0.30	35.7	2	3.0	56.7	0.84
0967928		0.79	0.02	1.1	2.5	10	278	0.2	<0.002	>10.0	4.91	0.3	359	3.4	3.4	<0.05
0967929		0.19	3.34	3.0	17.3	410	6.9	25.5	<0.002	0.10	0.13	4.7	<1	0.8	404	0.21

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Projet: 642

Finallsée date: 27-OCT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10145108

Description échantillon	Méthode élément unités L.D.	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Tl % 0.005	ME-MS61 U ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
0967919		<0.05	1.0	0.408	0.03	0.3	141	0.3	12.5	97	102.0		
0967920		3.39	4.4	0.280	0.06	1.1	66	0.4	59.8	153	276		
0967921		<0.05	4.0	0.197	<0.02	1.0	9	0.3	67.4	114	293		
0967922		<0.05	3.5	0.176	<0.02	0.9	17	0.3	54.2	113	255		
0967923		<0.05	5.0	0.270	<0.02	1.2	57	0.3	57.1	139	274		
0967924		<0.05	5.1	0.338	<0.02	1.2	101	0.2	39.2	137	208		
0967925		0.13	4.5	0.212	0.03	1.1	12	0.3	68.0	300	322		
0967926		0.84	3.5	0.251	0.02	0.9	44	0.2	54.0	266	258		
0967927		0.30	2.1	0.701	0.03	0.5	230	0.4	60.6	255	183.5		
0967928		217	<0.2	<0.005	0.12	0.1	2	0.2	2.4	>10000	6.6	1.010	10.15
0967929		0.10	1.0	0.235	0.10	0.3	51	0.3	6.9	116	34.4		

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Projet: 642

Finalisée date: 27-OCT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10145108

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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Finalisée date: 25-OCT-2010
Compte: NORMAT

CERTIFICAT VO10146400

Projet: 642

Bon de commande #:

Ce rapport s'applique aux 26 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 8-OCT-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Projet: 642

Finalisée date: 25-OCT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10146400

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02
0967930		2.11	0.006	<0.2	0.014	0.004	0.046	2.95	0.22	6.70	9.6	10	0.26	3.96	0.22	0.31
0967931		4.02	0.016	0.2	0.024	0.004	0.073	3.06	0.31	6.26	20.9	10	0.36	8.35	0.03	0.88
0967932		2.76	0.005	<0.2	0.003	0.001	0.029	2.84	0.09	6.19	12.7	10	0.30	0.47	0.21	<0.02
0967933		2.52	<0.005	<0.2	0.005	0.003	0.032	2.91	0.15	6.72	19.9	10	0.35	2.30	0.19	0.20
0967934		4.27	0.135	8.0	2.54	0.014	0.082	4.03	8.79	2.52	432	10	0.16	6.37	0.03	4.60
0967935		3.67	0.182	5.2	0.363	0.022	0.044	4.66	5.53	1.04	219	<10	0.09	2.63	0.05	2.62
0967936		4.17	0.113	2.8	0.116	0.016	0.046	4.42	2.85	2.77	109.5	20	0.11	1.13	0.04	6.97
0967937		2.88	<0.005	<0.2	0.161	0.002	0.033	3.23	0.30	3.88	44.2	20	0.30	0.23	0.13	0.79
0967938		2.32	<0.005	<0.2	0.006	0.004	0.044	2.92	0.11	6.57	14.2	10	0.48	0.04	0.21	0.15
0967939		1.68	0.009	<0.2	0.008	0.006	0.038	2.94	0.14	6.43	9.8	10	1.04	0.13	0.69	0.33
0967940		4.77	0.006	2.6	1.000	0.009	0.028	4.40	2.47	0.12	121.0	10	0.23	8.00	0.54	1.32
0967941		2.97	0.206	3.2	1.945	0.008	0.047	4.57	3.67	0.07	268	10	0.14	15.50	0.01	2.97
0967942		5.26	0.112	2.4	1.060	0.010	0.021	4.28	2.65	0.20	170.0	10	0.17	41.7	0.16	1.60
0967943		1.65	0.027	0.5	0.486	0.004	0.016	3.49	0.62	1.66	42.2	20	0.24	91.9	3.12	0.99
0967944		3.61	0.014	<0.2	0.009	<0.001	0.025	2.82	0.06	7.36	21.5	70	0.30	0.45	1.88	0.07
0967945		2.34	0.006	1.2	0.382	0.006	0.023	3.09	1.21	5.15	68.6	10	0.26	52.3	5.03	1.65
0967946		3.75	0.016	0.8	0.507	0.006	0.028	3.21	1.02	6.38	209	10	0.33	95.5	2.91	2.06
0967947		3.73	0.006	<0.2	0.117	0.005	0.020	2.92	0.38	5.32	62.5	10	0.33	38.9	4.16	0.41
0967948		2.79	<0.005	<0.2	0.005	0.003	0.019	2.78	0.08	6.52	2.8	20	0.23	1.93	5.51	0.35
0967949		3.62	0.009	0.3	0.004	0.003	0.076	2.85	0.37	6.91	1.4	120	0.68	119.5	0.09	1.74
0967950		3.50	<0.005	0.2	0.002	0.001	0.069	2.85	0.25	9.60	1.7	120	0.55	2.28	0.04	0.45
0967951		3.42	0.007	0.8	0.477	0.002	0.043	2.84	0.80	8.46	0.6	210	0.65	0.60	0.02	0.19
0967952		1.01	<0.005	0.3	0.127	0.001	0.033	2.37	0.41	7.66	0.6	220	0.64	1.50	0.01	0.27
0967953		1.51	<0.005	0.2	0.139	0.004	0.017	2.76	0.25	8.23	0.5	220	0.52	0.44	0.03	0.03
0967954		0.12		9.5	0.996	0.035	9.89		10.45	0.14	81.2	10	0.10	0.34	0.10	198.0
0967955		0.58	0.006	<0.2	0.008	0.003	0.010	2.77	0.05	7.69	0.7	330	0.73	0.10	3.27	0.29

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Projet: 642

Finalisée date: 25-OCT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10146400

Description échantillon	Méthode élément unités LD	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5
0967930		25.9	34.8	16	0.08	117.5	16.45	23.2	0.18	4.1	0.259	0.01	10.6	4.4	4.79	2340
0967931		29.9	15.5	10	0.15	217	20.7	24.4	0.38	5.6	0.303	<0.01	12.8	1.6	6.22	1780
0967932		41.3	27.5	13	0.07	27.3	11.20	22.1	0.15	4.7	0.196	0.03	17.6	7.4	5.40	1350
0967933		34.4	58.7	14	0.09	28.8	14.60	23.1	0.20	4.1	0.135	0.01	14.6	4.9	5.68	963
0967934		20.1	1160	3	0.18	>10000	35.9	18.25	2.83	1.9	8.81	0.01	10.5	0.3	2.03	305
0967935		6.54	342	7	<0.05	3510	40.6	6.49	3.18	0.6	1.950	<0.01	3.3	0.6	0.92	151
0967936		14.80	85.7	6	<0.05	1095	33.5	8.73	0.82	1.7	0.701	<0.01	6.5	0.9	2.30	395
0967937		22.4	30.4	11	0.09	1535	21.0	14.40	0.43	2.6	0.341	0.01	9.4	1.1	2.89	598
0967938		35.2	26.3	16	0.09	43.6	15.15	23.3	0.19	4.8	0.246	0.01	14.9	2.5	4.49	1170
0967939		33.4	36.6	14	0.11	68.4	16.80	34.2	0.23	4.3	0.728	<0.01	13.8	2.1	6.70	1840
0967940		8.51	385	<1	0.13	9640	42.7	7.77	0.98	0.1	3.55	0.02	4.1	0.3	1.57	512
0967941		20.4	663	<1	0.11	>10000	44.9	6.34	1.44	<0.1	2.03	0.02	10.1	0.2	1.34	62
0967942		35.0	373	<1	0.06	>10000	47.9	13.35	1.15	0.1	0.594	0.01	17.3	0.9	2.75	155
0967943		104.5	108.5	3	0.10	4830	24.9	45.9	0.56	0.9	0.233	0.01	52.4	1.3	7.15	1580
0967944		22.3	35.6	125	0.22	84.4	8.53	20.9	0.12	2.5	0.110	0.33	10.8	16.3	4.90	856
0967945		102.5	227	4	0.12	9030	16.65	58.0	0.62	2.9	1.435	<0.01	47.9	0.8	5.46	1550
0967946		96.2	391	4	0.19	4810	20.3	79.4	0.57	6.6	1.725	<0.01	44.9	0.6	6.97	1650
0967947		100.5	110.5	12	0.17	1130	18.05	58.6	0.40	8.6	0.444	<0.01	46.3	2.0	6.54	1960
0967948		41.2	36.5	339	0.15	49.0	6.33	19.70	0.12	2.4	0.063	0.06	18.7	25.3	6.45	808
0967949		113.0	34.5	5	0.56	37.7	9.06	41.1	0.26	13.6	0.097	0.65	48.3	65.6	9.30	570
0967950		162.5	33.2	3	0.82	21.2	9.27	28.9	0.28	16.1	0.174	0.60	72.2	62.7	11.50	483
0967951		155.5	41.4	3	0.66	4420	8.06	26.0	0.29	15.9	0.413	1.12	70.5	76.5	9.66	371
0967952		202	33.6	4	0.55	1115	6.70	21.2	0.30	14.9	0.157	1.26	88.4	66.3	8.91	301
0967953		116.0	20.4	3	0.53	1215	5.09	15.40	0.18	13.1	0.128	1.23	52.1	49.1	7.16	200
0967954		10.90	110.5	44	<0.05	>10000	40.4	44.7	1.56	0.2	20.8	0.01	4.8	0.2	1.11	174
0967955		20.9	10.9	17	0.61	48.4	2.45	21.7	0.07	1.2	0.046	0.93	8.6	11.8	1.03	365

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

ALS Canada Ltd.
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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 25-OCT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10146400

Description échantillon	Méthode élément unités L.D.	ME-MS61 Mn ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05
0967930		11.10	0.01	6.2	16.3	870	3.4	0.3	0.017	0.87	0.41	36.4	4	5.5	4.1	0.43
0967931		2.79	<0.01	7.5	8.7	80	5.6	0.2	0.002	5.47	0.58	10.6	19	3.8	1.3	0.56
0967932		0.97	0.01	7.8	11.1	930	0.8	1.1	0.003	0.12	0.17	28.5	2	5.2	3.6	0.54
0967933		0.76	0.01	6.8	12.7	820	4.0	0.5	0.003	0.52	0.19	28.8	6	3.4	3.1	0.47
0967934		28.7	0.01	2.9	4.9	60	104.5	0.5	0.002	>10.0	3.86	4.5	735	8.0	1.6	0.16
0967935		1.46	<0.01	1.4	4.0	10	161.5	0.2	<0.002	>10.0	3.51	1.4	550	2.0	0.6	0.05
0967936		0.70	<0.01	2.7	4.8	160	97.6	0.1	<0.002	>10.0	3.26	7.0	132	4.0	1.4	0.10
0967937		1.19	<0.01	4.7	9.2	560	5.0	0.4	0.002	>10.0	0.60	17.6	60	4.8	2.7	0.32
0967938		0.39	<0.01	8.6	12.0	960	2.0	0.6	0.002	0.55	0.25	31.6	4	6.4	3.5	0.60
0967939		0.53	<0.01	7.6	14.4	920	1.8	0.2	0.003	0.68	0.22	38.6	5	5.2	9.8	0.51
0967940		25.6	0.01	0.9	0.8	20	32.7	0.6	0.006	>10.0	2.13	0.4	154	6.2	8.1	<0.05
0967941		80.3	0.01	0.9	1.1	<10	33.3	0.5	0.068	>10.0	4.12	0.2	276	3.9	2.1	<0.05
0967942		35.2	0.01	1.0	1.2	20	25.3	0.3	0.058	>10.0	6.20	0.4	112	4.0	3.3	<0.05
0967943		50.6	0.01	1.3	8.4	660	2.8	0.2	0.021	4.64	6.68	2.9	49	4.3	40.7	0.08
0967944		1.49	1.41	2.3	134.0	400	0.9	9.1	0.003	0.12	0.21	15.2	2	3.3	85.6	0.16
0967945		14.55	0.01	4.0	8.0	70	5.1	0.2	0.007	7.67	0.58	8.1	85	6.3	91.0	0.27
0967946		24.7	<0.01	9.6	4.7	90	5.9	0.2	0.015	4.74	0.99	8.3	49	7.1	54.1	0.72
0967947		14.70	<0.01	11.7	10.2	130	2.5	0.2	0.008	4.34	0.37	6.6	27	5.8	65.2	0.85
0967948		7.62	0.60	5.3	245	690	1.2	2.0	0.008	0.12	0.20	20.5	1	1.3	145.0	0.26
0967949		41.8	0.02	16.9	5.8	130	12.1	12.8	0.021	0.15	0.44	8.1	4	5.6	5.6	1.33
0967950		34.4	0.02	15.5	5.2	110	4.7	16.0	0.019	0.53	0.33	12.2	3	3.9	3.6	1.16
0967951		87.4	0.03	13.8	7.2	100	3.9	22.7	0.110	0.39	0.44	12.1	8	4.5	7.4	1.07
0967952		38.5	0.04	13.5	9.6	140	3.2	23.9	0.053	0.11	0.38	14.1	4	4.2	7.0	1.10
0967953		11.30	0.03	15.7	6.1	140	2.1	31.7	0.017	0.14	0.28	16.4	4	3.0	6.8	1.12
0967954		0.60	0.02	1.0	2.1	20	227	0.2	0.002	>10.0	5.05	0.2	334	3.1	3.4	<0.05
0967955		0.58	2.99	3.3	18.0	410	5.0	20.8	0.002	0.06	0.12	5.5	2	0.6	427	0.23

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MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 25-OCT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10146400

Description échantillon	Méthode élément unités L.D.	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
0967930		1.98	1.1	0.819	0.03	0.6	256	1.2	22.7	408	134.5		
0967931		5.14	2.2	0.464	<0.02	1.0	72	0.5	12.2	862	198.5		
0967932		0.38	1.7	0.616	<0.02	0.6	135	0.9	25.1	268	166.5		
0967933		2.05	1.3	0.677	<0.02	0.5	169	0.7	23.1	308	132.5		
0967934		112.0	0.9	0.184	0.36	0.4	30	0.4	9.6	745	64.7	2.52	
0967935		164.5	0.3	0.042	0.94	0.1	16	0.2	3.0	449	20.4		
0967936		90.4	0.7	0.211	0.59	0.3	48	0.3	10.4	431	56.4		
0967937		4.34	0.9	0.436	<0.02	0.4	98	0.3	16.9	323	83.9		
0967938		1.03	1.5	0.800	<0.02	0.5	170	0.3	26.8	315	153.0		
0967939		8.47	1.0	1.075	<0.02	0.8	270	0.3	28.6	313	134.0		
0967940		130.0	<0.2	0.010	0.20	0.3	4	0.1	2.4	239	2.2		
0967941		167.5	<0.2	<0.005	0.41	0.3	2	0.2	1.0	441	1.4	1.785	
0967942		107.0	<0.2	0.012	0.21	0.7	7	0.4	1.9	217	4.3	0.987	
0967943		94.0	0.4	0.062	0.04	1.4	31	0.6	11.4	228	33.6		
0967944		65.0	1.3	0.191	0.13	0.5	113	0.6	6.8	240	96.7		
0967945		48.2	1.4	0.211	<0.02	0.8	39	1.1	24.4	185	106.0		
0967946		77.9	2.8	0.291	<0.02	1.2	39	1.2	31.3	257	222		
0967947		26.6	3.1	0.198	<0.02	1.4	26	0.7	33.5	173	276		
0967948		1.26	1.6	0.205	0.02	0.5	119	0.5	10.3	172	80.2		
0967949		62.2	5.0	0.162	0.19	3.3	29	1.3	50.3	741	422		
0967950		1.97	7.4	0.176	0.18	3.2	27	1.5	58.7	660	>500		
0967951		1.04	6.4	0.156	0.37	3.2	41	1.2	50.7	405	>500		
0967952		1.24	5.6	0.154	0.39	3.0	58	1.0	45.2	273	469		
0967953		0.43	6.3	0.191	0.34	2.3	37	0.9	43.8	155	439		
0967954		224	<0.2	<0.005	0.10	0.2	2	0.2	2.6	>10000	5.9	1.045	10.40
0967955		0.32	1.3	0.234	0.10	0.5	51	0.2	7.0	188	33.6		

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Projet: 642

Finalisée date: 25-OCT-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10146400

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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MATAGAMI QC J0Y 2A0

Finalisée date: 4-NOV-2010
Compte: NORMAT

CERTIFICAT VO10150110

Projet: 642

Bon de commande #:

Ce rapport s'applique aux 25 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 14-OCT-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
OA-GRA08	Densité relative - échantillon global	WST-SEQ
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Projet: 642

Finalisée date: 4-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10150110

Description échantillon	Méthode élément unités LD	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	MF-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	MF-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	MF-MS61 Cd ppm 0.02	MF-MS61 Ce ppm 0.01
0967956		3.10	0.013	0.7	0.007	0.006	0.072	1.13	7.76	26.5	170	0.94	0.17	1.60	1.06	41.6
0967957		4.52	0.028	14.9	0.078	0.018	1.430	16.40	3.96	233	80	0.21	0.22	1.85	37.9	19.85
0967958		3.74	<0.005	0.7	0.007	0.005	0.598	1.20	6.74	54.9	220	0.72	0.35	0.22	11.65	7.14
0967959		2.65	<0.005	0.2	0.010	0.003	0.277	0.67	7.55	31.3	130	0.54	0.93	0.20	5.11	20.6
0967960		3.42	<0.005	0.7	0.024	0.003	0.066	0.95	8.53	56.6	180	0.65	0.48	0.11	0.86	7.47
0967961		4.04	0.035	20.8	0.390	0.074	4.13	23.4	0.54	385	20	<0.05	2.90	1.35	87.3	6.49
0967962		2.20	<0.005	1.5	0.017	0.053	0.164	1.94	6.82	74.7	30	0.18	0.69	2.08	2.61	16.60
0967963		5.59	0.021	8.9	0.545	0.050	0.556	9.44	1.05	316	10	<0.05	0.66	4.87	12.80	8.24
0967964		1.37	<0.005	<0.2	0.012	0.004	0.119	0.46	8.05	30.0	140	0.40	0.05	2.56	1.69	20.9
0967965		0.65	<0.005	<0.2	0.001	0.001	0.075	0.11	6.83	15.4	30	0.36	1.73	1.25	0.65	21.0
0967966		2.50	0.062	5.8	0.109	0.013	4.52	6.73	0.14	180.0	10	<0.05	4.16	4.62	112.5	5.78
0967967		4.25	0.032	8.8	0.244	0.023	0.780	9.50	0.07	259	<10	<0.05	10.25	2.34	21.0	11.40
0967968		4.13	0.069	6.4	0.389	0.016	0.177	6.80	0.08	243	<10	0.07	4.79	2.66	4.48	5.31
0967969		6.35	0.070	6.3	0.541	0.015	0.218	6.52	0.15	264	10	<0.05	3.20	2.06	5.51	3.10
0967970		4.09	0.172	12.3	1.040	0.006	0.064	12.75	1.01	231	20	0.08	2.57	1.39	1.88	33.8
0967971		4.70	0.336	25.2	1.200	0.008	0.042	26.3	0.10	229	10	0.08	5.49	0.60	1.03	5.98
0967972		4.68	0.224	18.5	0.955	0.013	0.044	16.95	0.35	217	10	<0.05	7.54	1.23	1.31	21.7
0967973		3.09	0.090	6.6	0.730	0.009	0.061	7.23	0.26	129.5	10	<0.05	2.72	2.15	1.66	22.9
0967974		4.31	0.089	8.4	0.990	0.012	0.044	9.21	0.08	126.5	10	<0.05	3.55	2.03	1.43	11.50
0967975		4.74	0.051	6.7	1.820	0.008	0.233	8.21	3.64	72.2	<10	<0.05	3.40	0.48	7.78	31.5
0967976		2.24	0.014	1.9	0.616	0.004	0.029	2.64	3.89	108.0	10	0.16	17.60	1.10	0.67	45.5
0967977		2.81	<0.005	0.2	0.360	0.004	0.037	1.00	4.45	248	10	0.25	5.95	1.74	1.26	51.7
0967978		1.91	<0.005	<0.2	0.022	0.002	0.027	0.12	7.34	21.5	100	0.25	0.45	1.87	0.14	13.85
0967979		0.12		10.0	1.210	0.037	11.95	11.30	0.14	103.0	10	0.06	0.29	0.11	206	9.24
0967980		0.49	<0.005	<0.2	0.007	0.001	0.022	0.09	7.48	1.3	320	0.75	0.11	3.24	0.36	15.55

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Projet: 642

Finalisée date: 4-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10150110

Description échantillon	Méthode élément unités L.D.	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05
0967956		30.3	49	0.35	73.9	9.66	24.3	0.26	6.7	0.567	1.00	17.1	25.6	4.72	1160	1.26
0967957		25.4	17	0.17	791	28.8	14.25	0.69	2.1	9.61	0.54	13.2	8.2	2.05	1050	0.60
0967958		28.5	66	0.30	68.4	12.70	21.2	0.26	3.5	1.695	1.38	3.0	19.3	3.80	1800	0.95
0967959		14.8	37	0.32	93.6	10.85	18.35	0.22	4.2	0.604	0.90	11.1	24.2	4.95	2340	1.28
0967960		20.6	35	0.23	229	14.00	24.1	0.29	4.6	0.287	1.18	3.4	9.1	3.40	2360	1.15
0967961		109.0	5	0.22	4320	38.1	5.22	2.70	0.2	11.40	0.03	3.6	<0.2	0.32	684	0.56
0967962		44.8	66	0.12	147.0	15.80	23.9	0.67	2.3	1.000	0.06	7.9	7.4	4.61	4300	0.35
0967963		85.2	7	0.17	5970	36.5	18.45	1.61	0.5	8.48	0.02	4.0	0.3	2.15	6000	0.35
0967964		23.1	81	0.46	110.0	9.29	27.0	0.24	2.8	0.329	1.30	9.4	15.9	3.85	3340	0.67
0967965		20.2	75	0.37	10.4	11.05	29.5	0.26	2.5	0.344	0.25	10.9	21.5	5.44	2440	0.46
0967966		84.9	<1	0.10	1065	36.9	8.34	0.92	<0.1	37.6	0.01	3.1	0.2	0.74	1320	0.20
0967967		97.7	<1	0.13	2490	39.3	7.26	0.92	<0.1	30.4	0.02	5.7	<0.2	0.75	1740	0.31
0967968		109.5	1	0.08	3680	39.0	8.65	0.89	<0.1	22.0	<0.01	2.7	0.2	1.51	3250	0.87
0967969		319	1	0.05	5640	42.0	5.30	1.04	0.1	7.72	0.01	1.6	<0.2	1.21	2540	1.46
0967970		634	2	2.35	>10000	40.5	14.45	1.29	0.8	5.30	0.20	11.9	<0.2	1.61	2220	1.28
0967971		828	1	0.41	>10000	41.9	2.23	1.02	<0.1	4.74	0.05	2.9	0.4	0.92	1040	2.07
0967972		818	3	1.47	>10000	39.4	9.94	1.16	0.2	11.40	0.14	10.4	<0.2	1.23	1440	9.29
0967973		315	<1	0.81	7130	42.2	7.33	1.99	0.1	9.45	0.07	12.0	<0.2	1.30	1880	12.95
0967974		416	<1	0.16	>10000	44.3	3.01	2.04	<0.1	13.60	0.02	6.0	0.2	0.94	1300	10.30
0967975		189.0	4	0.24	>10000	35.6	26.8	1.42	2.4	9.66	0.02	18.5	0.4	3.71	986	17.30
0967976		356	1	0.51	6450	36.6	36.5	1.19	2.7	1.180	0.04	24.6	0.4	4.47	1210	3.15
0967977		472	1	0.44	3840	35.0	46.0	1.01	4.2	0.305	0.03	25.8	0.4	5.49	1500	4.73
0967978		43.2	48	0.17	197.5	8.76	20.4	0.17	3.0	0.107	0.35	6.1	10.5	3.85	850	1.09
0967979		118.0	46	<0.05	>10000	41.0	47.1	2.09	0.2	26.7	0.01	4.0	<0.2	1.13	179	0.73
0967980		11.4	20	0.54	68.1	2.62	22.6	0.07	1.2	0.095	0.69	8.4	11.5	0.98	394	0.13

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 4-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10150110

Description échantillon	Méthode élément unités LnD	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05
0967956		0.35	14.4	33.2	750	49.8	35.6	0.003	1.66	0.99	34.8	4	10.8	16.5	1.02	18.05
0967957		0.01	3.0	21.2	240	164.5	18.5	0.002	>10.0	10.10	6.2	66	24.1	21.0	0.20	71.2
0967958		0.03	4.7	46.4	480	21.0	14.2	0.003	5.19	2.81	25.0	4	20.9	5.5	0.36	3.70
0967959		0.02	4.2	39.1	420	23.3	31.6	0.002	1.84	1.67	15.9	2	7.6	4.3	0.34	6.14
0967960		0.02	4.4	43.6	310	16.1	11.6	0.002	3.58	2.05	11.6	5	11.8	4.2	0.37	5.58
0967961		0.01	1.1	8.4	120	745	1.2	0.003	>10.0	11.25	1.0	522	3.9	11.0	<0.05	460
0967962		<0.01	3.6	86.9	730	477	2.1	<0.002	3.96	0.89	14.8	89	11.9	14.2	0.22	194.0
0967963		<0.01	1.3	7.2	110	458	0.8	<0.002	>10.0	6.34	1.8	239	6.8	20.2	0.05	236
0967964		0.33	4.7	103.5	840	15.3	38.7	<0.002	0.52	0.43	18.4	6	14.9	30.4	0.29	5.75
0967965		0.02	4.1	93.6	810	1.9	7.7	<0.002	0.11	0.21	18.2	1	19.4	9.6	0.25	10.90
0967966		<0.01	0.7	6.1	30	94.6	0.5	<0.002	>10.0	4.54	0.2	67	10.9	26.0	<0.05	133.0
0967967		<0.01	0.7	4.6	20	202	0.6	<0.002	>10.0	4.84	0.1	51	12.3	14.6	<0.05	224
0967968		<0.01	0.8	1.1	20	110.0	0.2	<0.002	>10.0	3.73	0.1	42	8.8	15.6	<0.05	144.0
0967969		<0.01	0.9	1.5	<10	118.0	0.3	<0.002	>10.0	3.04	0.1	72	3.4	15.1	<0.05	132.0
0967970		0.07	1.5	2.7	20	37.2	7.8	<0.002	>10.0	3.58	0.7	153	4.4	10.4	0.08	96.8
0967971		<0.01	0.7	2.6	<10	51.6	1.5	<0.002	>10.0	3.10	0.1	99	5.2	3.3	<0.05	153.5
0967972		0.04	0.9	1.9	20	73.2	5.2	<0.002	>10.0	2.78	0.2	116	4.5	10.1	<0.05	169.0
0967973		0.01	0.8	3.1	10	58.0	3.0	<0.002	>10.0	1.46	0.2	330	2.9	17.4	<0.05	92.4
0967974		<0.01	0.8	2.3	10	76.9	0.7	<0.002	>10.0	1.59	0.1	326	4.9	11.5	<0.05	123.0
0967975		<0.01	3.5	4.0	30	55.4	0.7	<0.002	>10.0	1.26	4.3	219	6.1	6.0	0.21	66.6
0967976		<0.01	3.8	3.8	170	5.0	1.8	0.002	>10.0	1.71	5.2	108	6.7	16.2	0.23	38.2
0967977		<0.01	6.6	3.4	80	1.8	1.4	0.002	7.72	1.18	5.9	41	4.4	27.7	0.41	14.55
0967978		2.25	4.3	60.4	520	<0.5	3.5	<0.002	0.16	0.28	13.6	2	2.4	95.4	0.31	0.69
0967979		<0.01	1.0	2.1	20	287	0.1	<0.002	>10.0	5.33	0.1	357	3.8	3.7	<0.05	202
0967980		3.23	3.2	16.8	410	3.9	17.7	<0.002	0.17	0.13	4.6	1	0.6	423	0.23	0.60

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MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 4-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10150110

Description échantillon	Méthode élément unités L.D.	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001	OA-GRA08 S.G. Unity 0.01
0967956		2.3	0.754	0.72	0.6	239	0.4	70.8	690	208			2.84
0967957		1.0	0.172	0.62	0.2	49	0.3	10.0	>10000	76.8		1.365	3.70
0967958		0.6	0.541	1.21	0.3	242	0.8	12.5	5700	126.0			2.95
0967959		2.0	0.307	0.76	0.5	102	0.4	16.5	2810	158.0			2.89
0967960		0.7	0.290	1.38	0.5	100	0.4	6.1	671	177.0			2.97
0967961		<0.2	0.023	0.54	0.1	8	0.2	2.8	>10000	8.2		4.03	4.50
0967962		0.9	0.340	0.05	0.2	95	0.8	10.5	1560	96.7			2.89
0967963		0.2	0.055	0.13	0.1	14	0.2	4.9	5460	22.5			4.06
0967964		1.0	0.439	1.00	0.3	112	0.6	15.8	1140	117.5			2.89
0967965		0.9	0.398	0.19	0.2	105	1.1	10.5	754	105.0			2.83
0967966		<0.2	<0.005	0.27	<0.1	3	0.1	2.8	>10000	1.4		3.76	4.27
0967967		<0.2	<0.005	2.00	<0.1	2	0.2	2.9	7410	0.9			4.54
0967968		<0.2	<0.005	1.32	<0.1	3	0.1	2.6	1660	1.6			4.14
0967969		<0.2	0.009	0.47	<0.1	2	0.1	1.6	2150	3.5			4.46
0967970		0.3	0.054	0.67	0.1	18	0.5	3.2	581	25.2	1.065		3.67
0967971		<0.2	<0.005	0.57	<0.1	1	0.2	1.4	404	1.6	1.200		4.10
0967972		<0.2	0.014	0.38	0.1	4	0.2	4.0	428	8.2	0.986		3.88
0967973		<0.2	0.012	0.14	<0.1	3	0.2	4.2	529	4.9			4.29
0967974		<0.2	<0.005	0.22	<0.1	2	0.1	2.5	404	1.5	1.005		4.51
0967975		1.1	0.189	0.07	0.3	27	0.7	7.9	2220	93.8	1.790		3.83
0967976		1.2	0.190	0.07	0.3	27	0.8	11.5	209	107.0			3.80
0967977		1.8	0.208	0.02	0.4	27	1.1	17.7	309	156.0			3.49
0967978		0.9	0.372	0.18	0.3	121	1.5	8.5	223	116.0			2.76
0967979		<0.2	<0.005	0.11	0.1	3	0.2	2.7	>10000	8.3	1.000	10.25	
0967980		1.0	0.239	0.09	0.3	62	0.4	6.8	279	29.8			2.76

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À: XSTRATA ZINC CANADA EXPLORATION
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Projet: 642

Finalisée date: 4-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10150110

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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MATAGAMI QC J0Y 2A0

Finalisée date: 5-NOV-2010
Compte: NORMAT

CERTIFICAT VO10151057

Projet: 642
Bon de commande #:
Ce rapport s'applique aux 40 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 15-OCT-2010.
Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Projet: 642

Finalisée date: 5-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10151057

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0,005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02
0967981		3.44	<0.005	0.2	0.009	0.004	0.021	2.92	0.40	7.40	26.6	40	0.60	0.14	5.75	0.04
0967982		2.89	0.036	9.4	0.074	0.036	1.000	3.00	10.35	6.58	68.8	120	0.50	0.76	2.27	19.00
0967983		2.60	0.085	22.3	0.064	0.591	2.42	4.10	20.8	0.15	662	10	0.23	0.57	1.59	476
0967984		3.05	0.189	20.8	0.042	0.229	17.95	3.94	21.2	0.36	564	20	0.32	0.62	1.68	279
0967985		2.41	0.031	0.2	0.001	0.007	0.070	2.73	0.54	8.50	6.4	150	1.01	0.06	3.56	1.03
0967986		2.08	0.029	4.5	0.001	0.005	0.093	2.91	4.40	7.51	32.5	70	0.47	0.06	0.87	0.94
0967987		4.41	0.071	9.4	0.594	0.065	4.40	4.21	9.40	0.37	466	<10	0.11	1.11	0.03	90.3
0967988		3.86	0.113	83.6	0.618	0.071	4.92	4.14	87.4	0.08	398	<10	0.06	20.2	0.02	77.7
0967989		3.23	0.072	53.0	0.518	0.064	11.65	3.62	52.4	0.32	345	<10	0.13	75.2	0.08	236
0967990		1.86	0.074	24.9	0.057	0.078	8.76	3.93	25.8	0.26	503	<10	<0.05	3.69	0.02	174.5
0967991		2.99	0.068	11.2	0.270	0.044	8.91	3.95	11.20	0.28	458	10	0.10	1.32	0.61	185.0
0967992		4.81	0.082	9.5	0.267	0.034	3.43	4.22	10.15	0.11	591	10	0.12	0.34	0.89	73.7
0967993		4.55	0.059	12.8	0.208	0.044	3.32	4.20	12.80	0.54	951	10	0.08	1.06	0.02	68.0
0967994		3.79	<0.005	0.8	0.022	0.010	0.282	3.12	1.00	10.75	131.5	360	0.76	0.20	0.04	4.97
0967995		3.84	0.020	1.0	0.032	0.012	0.597	3.33	1.33	10.60	256	100	0.75	0.43	0.07	11.60
0967996		4.75	0.121	6.3	1.275	0.023	0.818	4.59	6.42	0.75	441	10	<0.05	2.73	0.09	17.30
0967997		4.69	0.154	10.8	1.375	0.032	0.985	4.69	10.65	0.32	481	10	<0.05	5.09	0.32	22.7
0967998		4.92	0.213	12.6	0.767	0.027	0.619	4.84	12.30	0.60	439	10	<0.05	1.16	0.57	13.70
0967999		4.64	0.174	14.1	0.655	0.035	0.119	4.54	14.20	0.70	298	10	0.05	2.06	0.82	2.65
0968000		4.64	0.225	16.6	0.821	0.067	0.044	4.41	17.00	0.43	216	<10	<0.05	8.13	1.47	1.22
0968901		5.08	0.148	17.4	1.155	0.041	0.716	4.54	18.80	1.05	176.5	40	<0.05	10.35	0.17	19.65
0968902		0.12		10.8	0.947	0.031	9.54		10.75	0.13	100.5	<10	<0.05	0.36	0.10	198.0
0968903		0.43	<0.005	<0.2	0.028	0.002	0.038	2.73	0.44	7.97	5.6	420	0.83	0.14	3.10	0.59
0968904		3.95	0.013	1.3	0.041	0.010	0.772	3.06	1.58	7.33	125.0	70	0.44	0.68	0.14	16.55
0968905		3.65	<0.005	0.4	0.047	0.007	0.297	3.04	0.94	7.86	17.6	150	0.21	0.89	0.10	6.55
0968906		4.26	0.029	2.4	0.587	0.010	0.037	3.47	2.85	3.71	109.0	<10	<0.05	6.22	0.56	0.47
0968907		2.79	0.005	0.9	0.273	0.004	0.057	2.95	1.22	6.07	141.5	<10	0.16	693	2.53	1.34
0968908		3.40	0.007	0.5	0.495	0.002	0.043	3.00	0.96	5.21	104.0	<10	0.12	173.0	3.73	1.43
0968909		2.65	<0.005	<0.2	0.010	0.002	0.033	2.81	0.15	7.31	11.4	80	0.20	0.97	1.24	0.08
0968910		2.00	<0.005	<0.2	0.007	<0.001	0.022	2.79	0.08	7.97	17.6	150	0.28	2.86	3.93	0.07
0968911		2.77	0.041	1.2	0.119	0.005	0.035	3.18	1.94	6.38	32.3	<10	0.13	25.3	2.56	0.30
0968912		1.81	<0.005	<0.2	0.011	0.001	0.029	2.75	0.14	7.71	10.0	190	0.44	0.21	7.90	0.12
0968913		2.79	<0.005	<0.2	0.006	<0.001	0.028	2.75	0.12	8.12	22.4	120	0.28	0.55	4.23	0.09
0968914		3.21	0.009	0.4	0.066	0.002	0.053	3.03	1.17	7.73	11.4	<10	0.32	29.2	0.17	0.32
0968915		3.71	<0.005	0.3	0.012	0.001	0.058	2.87	0.73	8.32	4.2	<10	0.44	41.6	0.24	0.28
0968916		2.79	<0.005	<0.2	0.023	<0.001	0.022	2.75	0.20	8.04	7.0	140	0.32	2.34	3.84	0.24
0968917		1.78	<0.005	<0.2	0.013	0.002	0.033	2.77	0.14	7.83	7.9	100	0.29	0.60	3.46	0.19
0968918		3.21	0.032	3.2	0.348	0.003	0.045	3.12	3.96	8.64	21.4	<10	0.24	49.3	0.22	0.55
0968919		1.62	0.026	1.3	0.052	0.007	0.045	3.05	1.91	6.52	16.5	30	0.29	13.15	1.00	1.00
0968920		2.01	<0.005	<0.2	0.019	<0.001	0.030	2.81	0.12	6.92	5.4	40	0.52	0.67	2.95	0.14

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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Projet: 642

CERTIFICAT D'ANALYSE VO10151057

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5
0967981		9.08	49.6	154	0.41	80.4	7.96	17.20	0.23	1.4	0.058	0.15	3.9	18.7	4.67	1560
0967982		13.55	34.9	43	0.26	707	14.05	24.2	0.31	3.1	1.875	0.42	5.9	14.0	3.66	2410
0967983		0.68	21.9	1	0.67	661	20.1	25.3	0.27	0.1	58.0	0.05	<0.5	2.6	0.13	840
0967984		2.39	45.5	4	1.38	421	24.9	52.6	0.33	0.1	5.89	0.11	1.3	1.6	0.30	1060
0967985		49.1	8.8	18	0.30	13.9	5.73	21.2	0.18	5.9	0.161	0.61	20.8	11.2	1.38	904
0967986		38.8	31.4	49	0.31	8.5	13.80	51.1	0.38	5.6	0.278	0.33	15.0	11.4	5.22	2430
0967987		1.59	578	7	0.77	6040	30.7	43.4	0.48	0.2	14.90	0.05	0.7	1.3	0.33	376
0967988		3.87	328	6	0.62	6140	31.2	30.0	0.63	<0.1	13.55	0.03	1.9	0.7	0.33	472
0967989		2.48	319	5	0.71	5200	23.5	113.0	0.54	0.2	28.8	0.06	1.1	0.9	1.04	757
0967990		1.31	139.0	6	0.78	581	28.9	174.0	0.41	0.1	44.2	0.04	0.6	0.8	0.26	495
0967991		4.87	485	8	1.96	2690	31.2	168.5	0.58	0.2	63.8	0.13	2.6	<0.2	0.49	1300
0967992		5.09	324	6	0.65	2860	35.6	34.8	0.59	<0.1	32.7	0.04	2.8	<0.2	0.25	899
0967993		2.89	190.5	10	0.35	2200	35.2	23.3	0.59	0.3	24.3	0.02	1.4	<0.2	0.24	500
0967994		32.1	28.6	50	1.04	226	12.05	33.7	0.49	5.4	1.360	4.57	14.4	5.1	0.99	1230
0967995		21.4	34.2	70	1.71	322	16.70	34.9	0.41	5.3	1.580	4.70	9.6	4.2	0.89	1190
0967996		12.30	441	5	0.21	>10000	39.5	16.20	1.03	0.4	11.35	0.03	7.8	1.3	0.31	447
0967997		12.10	877	3	0.41	>10000	40.5	8.47	1.19	0.2	10.25	0.05	7.0	1.4	0.19	327
0967998		3.82	542	2	0.22	7560	40.3	10.30	1.10	0.2	7.03	0.03	2.2	1.2	0.28	402
0967999		13.90	438	2	0.15	6820	41.4	10.55	1.46	0.3	5.19	0.01	8.8	1.1	0.47	469
0968000		14.60	586	2	0.26	8130	41.1	5.02	1.95	0.3	6.94	0.03	8.7	0.3	0.51	545
0968901		4.92	226	4	0.28	>10000	42.6	12.85	2.80	0.7	42.4	0.04	2.8	0.3	0.85	340
0968902		9.05	108.0	45	<0.05	>10000	41.4	47.1	2.09	0.2	22.8	<0.01	4.2	<0.2	1.11	180
0968903		13.60	15.5	18	1.08	288	3.22	22.6	0.18	1.2	0.516	1.66	5.9	18.5	0.95	423
0968904		6.27	25.1	6	0.81	424	14.00	23.5	0.36	6.1	3.48	3.35	2.4	10.6	1.57	458
0968905		37.9	25.3	9	0.50	478	15.90	27.2	0.43	6.8	2.27	0.87	17.1	23.3	8.83	1220
0968906		30.1	410	3	0.12	6170	32.3	33.7	1.89	2.7	6.86	<0.01	15.1	0.8	4.11	527
0968907		360	157.5	5	0.09	2760	14.75	67.0	0.81	4.7	0.830	<0.01	160.5	3.1	10.35	1240
0968908		104.0	127.5	1	0.16	5050	13.35	51.4	0.43	3.6	1.080	0.01	48.5	2.6	9.84	1280
0968909		18.60	33.9	66	0.28	78.9	6.85	20.6	0.24	2.5	0.159	0.53	9.7	16.6	6.63	842
0968910		14.75	30.0	109	0.44	69.3	6.39	19.00	0.20	2.2	0.118	1.00	7.1	17.5	3.94	844
0968911		60.6	127.0	3	0.29	1280	18.60	42.7	0.57	9.9	0.741	<0.01	29.9	8.9	6.72	1000
0968912		26.1	23.9	57	0.45	117.5	5.08	17.15	0.17	2.5	0.155	1.02	13.4	18.7	3.02	1040
0968913		19.95	32.1	150	0.30	62.9	5.86	17.30	0.19	2.3	0.093	0.58	10.4	23.0	3.81	777
0968914		73.0	59.3	1	0.32	697	15.85	38.5	0.45	15.6	0.549	<0.01	31.8	32.9	10.40	610
0968915		116.0	41.8	1	0.51	129.0	11.70	35.6	0.37	15.2	0.275	<0.01	52.1	47.9	11.95	928
0968916		27.7	38.2	73	0.43	185.5	5.97	19.25	0.21	3.4	0.205	0.59	13.7	19.5	3.83	803
0968917		26.8	26.3	68	0.37	114.5	6.22	19.25	0.21	3.5	0.220	0.44	13.2	19.3	4.10	628
0968918		84.1	75.8	4	0.19	4060	19.80	44.4	0.79	13.2	3.30	<0.01	37.1	28.4	7.87	838
0968919		44.2	26.3	28	0.19	576	17.20	19.35	0.55	9.2	1.145	0.10	19.6	28.0	6.74	831
0968920		37.5	26.6	38	0.16	45.0	8.37	21.5	0.23	5.2	0.285	0.15	15.1	20.4	4.26	998

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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BUREAU D EXPLORATION – MINE MATAGAMI
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Projet: 642

Finalisée date: 5-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10151057

Description échantillon	Méthode élément unités L.D.	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05
0967981		0.23	1.55	2.9	149.5	330	3.5	6.2	0.002	0.07	0.70	31.8	1	1.2	69.7	0.44
0967982		1.19	0.28	5.9	42.5	450	312	7.1	0.003	4.10	4.33	25.4	5	27.7	38.6	0.51
0967983		0.51	0.02	0.6	3.0	20	6810	4.6	0.002	>10.0	17.45	0.3	18	9.4	11.0	0.13
0967984		0.84	0.05	0.9	3.6	40	2130	6.7	<0.002	>10.0	25.1	1.2	16	23.0	16.9	0.07
0967985		1.55	2.28	13.9	16.0	650	73.6	22.2	0.002	0.17	0.92	12.8	2	7.0	85.4	1.02
0967986		1.20	0.03	16.2	31.2	760	33.0	12.7	0.003	0.09	0.54	39.8	2	15.9	4.1	1.05
0967987		19.65	0.02	1.1	7.2	30	580	3.0	0.004	>10.0	32.0	1.8	25	5.4	2.1	0.05
0967988		32.4	0.01	0.9	7.2	10	609	2.4	0.002	>10.0	27.9	0.3	62	7.3	1.1	0.05
0967989		9.78	0.02	0.8	9.4	30	572	3.2	0.002	>10.0	15.20	1.0	68	8.0	1.9	<0.05
0967990		2.42	0.02	1.0	11.1	10	723	2.6	0.003	>10.0	30.2	0.7	12	12.2	1.0	0.09
0967991		1.87	0.06	0.8	10.8	10	362	4.4	<0.002	>10.0	32.8	0.7	32	20.0	4.5	<0.05
0967992		0.66	0.02	0.4	4.7	<10	293	1.5	<0.002	>10.0	37.9	0.3	50	13.7	7.2	<0.05
0967993		0.82	0.01	0.7	6.9	<10	379	0.8	<0.002	>10.0	31.9	0.7	50	10.7	2.1	<0.05
0967994		1.18	0.08	6.3	58.3	120	71.6	107.0	<0.002	9.47	7.24	19.3	5	23.4	10.9	0.54
0967995		1.08	0.07	6.2	66.5	210	64.0	91.1	<0.002	>10.0	11.10	17.4	8	33.2	10.1	0.53
0967996		1.12	0.01	1.2	5.2	20	173.0	1.2	<0.002	>10.0	14.70	1.3	122	7.4	3.2	<0.05
0967997		0.98	0.02	1.0	2.0	20	261	2.2	<0.002	>10.0	12.00	0.6	154	8.4	4.1	<0.05
0967998		1.04	0.01	1.0	1.8	10	235	1.3	<0.002	>10.0	9.04	0.9	117	7.1	4.8	<0.05
0967999		0.44	0.01	1.3	1.6	20	266	0.7	<0.002	>10.0	6.60	1.2	207	6.1	6.6	<0.05
0968000		1.35	0.01	1.3	2.6	20	556	1.2	0.002	>10.0	5.70	0.4	304	7.7	14.0	<0.05
0968901		1.81	0.01	1.9	8.4	10	389	2.0	0.003	>10.0	3.03	1.8	497	4.7	9.5	0.07
0968902		0.66	0.01	1.2	2.1	30	267	0.3	<0.002	>10.0	5.54	0.1	365	3.1	3.7	<0.05
0968903		0.18	3.13	3.1	18.6	430	13.5	35.7	<0.002	0.85	0.32	5.5	5	0.9	230	0.24
0968904		1.38	0.06	4.4	10.6	330	80.1	46.6	0.002	>10.0	5.73	14.3	19	34.7	8.0	0.31
0968905		2.64	0.01	4.4	13.2	410	34.6	23.0	0.003	6.55	0.52	11.8	13	10.8	3.8	0.35
0968906		3.49	<0.01	3.4	11.4	40	71.8	0.2	0.002	>10.0	1.53	5.8	319	5.2	4.1	0.21
0968907		195.5	<0.01	5.6	17.7	750	11.5	0.3	0.147	2.07	3.95	12.8	23	5.9	22.5	0.42
0968908		35.2	0.01	4.3	10.1	80	6.9	0.4	0.006	3.28	1.52	9.2	25	5.0	29.5	0.32
0968909		0.77	0.38	3.2	74.6	370	1.5	18.8	0.002	0.13	0.15	15.9	2	4.0	21.4	0.26
0968910		1.91	1.60	2.7	104.5	380	1.9	24.2	0.002	0.06	0.19	18.5	1	1.1	66.7	0.22
0968911		8.72	<0.01	9.9	8.0	140	25.2	0.3	0.003	>10.0	0.66	9.7	36	4.3	16.9	0.71
0968912		0.39	1.95	3.0	105.5	410	1.7	36.2	0.002	0.13	0.18	17.4	1	1.3	183.0	0.23
0968913		0.67	2.43	2.9	147.5	410	1.6	19.2	0.002	0.10	0.15	18.5	1	1.1	113.5	0.22
0968914		6.09	<0.01	15.2	5.7	130	9.7	0.3	0.002	5.47	0.58	9.3	15	4.7	2.9	1.13
0968915		7.69	<0.01	14.3	7.1	120	5.9	0.4	0.002	0.89	0.22	8.2	4	4.4	4.0	1.11
0968916		0.68	2.56	3.5	100.5	820	2.4	18.6	<0.002	1.08	0.15	17.8	4	1.9	137.5	0.25
0968917		0.56	2.32	3.7	94.9	780	1.9	12.6	<0.002	0.76	0.15	16.2	3	3.8	123.0	0.28
0968918		1.80	0.01	14.2	8.7	230	28.6	0.2	0.002	>10.0	0.60	8.7	82	10.1	4.3	1.09
0968919		1.70	0.50	13.3	29.4	180	38.3	3.3	0.002	>10.0	0.47	10.2	54	14.8	27.5	0.98
0968920		0.50	1.19	11.0	32.8	730	2.1	5.1	0.002	0.36	0.26	31.1	3	6.7	69.7	0.76

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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BUREAU D EXPLORATION – MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: 642

CERTIFICAT D'ANALYSE VO10151057

Description échantillon	Méthode élément unités L.D.	ME-MS61 Fe ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
0967981		0.07	0.4	0.443	0.06	0.1	189	0.3	15.7	197	45.7		
0967982		2.09	1.0	0.489	0.41	0.3	172	0.5	20.4	9290	108.0		
0967983		1.66	<0.2	0.008	1.51	<0.1	3	0.1	2.5	>10000	1.6		23.1
0967984		2.10	<0.2	0.030	1.62	<0.1	14	0.2	6.1	>10000	4.8		16.05
0967985		0.09	2.8	0.318	0.28	0.7	69	0.4	54.1	761	198.5		
0967986		2.34	2.2	0.633	0.27	0.5	274	1.2	66.1	844	202		
0967987		4.29	<0.2	0.034	2.70	<0.1	15	1.2	3.5	>10000	5.3		4.65
0967988		63.1	<0.2	<0.005	3.43	0.1	4	1.3	2.9	>10000	1.2		5.09
0967989		170.6	<0.2	0.016	1.57	0.1	10	0.7	6.1	>10000	6.8		12.35
0967990		23.6	<0.2	0.013	3.11	0.1	5	3.4	1.3	>10000	5.6		9.18
0967991		10.70	0.2	0.020	2.40	0.1	<1	1.0	2.3	>10000	8.1		8.96
0967992		13.65	<0.2	<0.005	2.08	<0.1	<1	0.3	2.5	>10000	2.1		3.66
0967993		18.60	0.2	0.023	1.45	0.1	2	0.3	1.1	>10000	10.3		3.38
0967994		1.03	2.6	0.420	4.22	0.7	130	1.2	14.7	2660	213		
0967995		5.58	1.9	0.430	3.77	0.8	125	1.3	10.9	5930	208		
0967996		98.4	0.2	0.038	1.53	0.2	9	0.4	1.7	7700	14.7	1.300	
0967997		199.5	<0.2	0.020	1.09	0.2	3	0.3	1.6	9240	7.8	1.495	
0967998		199.5	<0.2	0.024	0.87	0.2	4	0.4	1.6	5690	10.1		
0967999		242	0.2	0.039	0.58	0.2	4	0.3	3.2	1100	14.4		
0968000		401	<0.2	0.022	0.16	0.1	5	0.4	3.9	344	11.8		
0968901		298	0.4	0.054	0.11	0.1	18	0.4	3.3	7360	25.7	1.205	
0968902		207	<0.2	<0.005	0.12	0.1	3	0.3	2.6	>10000	6.4	0.993	10.10
0968903		5.63	1.0	0.238	0.23	0.3	53	0.3	6.1	343	33.1		
0968904		22.9	1.0	0.263	1.91	0.6	77	0.7	8.9	7650	234		
0968905		18.35	2.5	0.249	0.39	0.8	76	0.8	19.7	2960	262		
0968906		81.8	1.1	0.168	0.07	0.4	32	0.6	7.0	215	100.0		
0968907		470	1.7	0.288	0.09	4.5	117	2.1	32.7	538	183.0		
0968908		126.5	1.5	0.229	0.05	1.5	55	1.8	21.1	468	136.0		
0968909		1.21	1.1	0.368	0.26	0.3	133	1.5	9.8	305	83.4		
0968910		2.63	0.9	0.331	0.49	0.2	137	0.4	10.2	171	84.3		
0968911		36.6	3.5	0.165	0.02	1.3	27	0.5	34.1	294	310		
0968912		0.57	1.2	0.293	0.47	0.3	110	0.4	32.0	184	85.4		
0968913		0.90	1.2	0.315	0.25	0.3	133	0.4	10.2	195	81.0		
0968914		25.3	4.7	0.182	0.02	1.8	20	0.7	50.8	485	434		
0968915		28.7	4.7	0.170	0.02	1.8	21	0.6	53.6	554	429		
0968916		10.15	1.3	0.264	0.21	0.3	103	0.4	13.8	206	134.5		
0968917		5.73	1.3	0.260	0.15	0.3	98	0.4	13.9	237	139.0		
0968918		53.0	4.3	0.178	0.02	1.4	19	0.5	47.6	469	392		
0968919		28.2	3.3	0.216	0.05	1.0	46	0.5	31.1	470	289		
0968920		0.80	1.8	0.673	0.06	0.4	210	0.8	25.4	265	165.0		

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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Projet: 642

Finalisée date: 5-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10151057

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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Finalisée date: 9-NOV-2010
Compte: NORMAT

CERTIFICAT VO10153019

Projet: 642

Bon de commande #:

Ce rapport s'applique aux 26 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 19-OCT-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
Ag-OG62	Teneur marchande Ag - quatre acides	VARIABLE
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION – MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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À: XSTRATA ZINC CANADA EXPLORATION
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BUREAU D EXPLORATION – MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 9-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10153019

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02
0968921		2.36	<0.005	0.2	0.004	0.002	0.024	2.79	0.33	7.99	17.9	260	0.85	0.05	4.78	0.15
0968922		3.30	0.085	16.6	0.025	0.055	0.007	4.10	18.45	0.27	795	10	<0.05	0.14	0.08	0.13
0968923		3.18	0.008	0.4	0.005	0.004	0.032	2.83	0.67	7.92	39.5	40	0.68	0.04	1.31	0.19
0968924		3.11	<0.005	2.6	0.014	0.012	0.031	2.92	3.28	6.83	89.2	20	0.70	0.29	1.90	0.16
0968925		2.83	<0.005	2.5	0.011	0.012	0.032	2.94	3.23	6.74	84.2	20	0.58	0.11	2.99	0.11
0968926		2.20	<0.005	0.6	0.010	0.019	0.053	2.88	1.02	7.28	40.4	80	0.74	0.10	3.89	0.35
0968927		2.91	0.026	33.8	0.025	0.103	0.180	2.89	39.0	7.43	67.3	120	0.64	11.20	0.92	2.93
0968928		1.24	0.112	85.2	0.890	0.067	5.20	4.09	>100	1.72	435	40	0.30	19.20	1.84	105.0
0968929		3.82	0.084	37.3	0.738	0.060	9.16	4.21	43.0	0.08	487	<10	0.07	2.13	0.85	221
0968930		3.31	0.013	4.2	0.034	0.011	2.52	3.12	4.45	5.55	167.5	120	0.28	0.69	0.04	54.3
0968931		3.93	0.040	17.0	0.785	0.014	2.46	4.72	18.25	1.00	406	<10	<0.05	1.55	0.11	44.7
0968932		3.18	0.079	0.8	0.011	0.006	0.161	3.35	1.32	6.83	125.5	30	0.29	0.06	0.04	2.81
0968933		4.76	0.042	6.3	0.180	0.020	1.415	4.84	7.80	0.89	289	<10	0.05	0.52	0.41	27.7
0968934		5.49	0.037	4.5	0.222	0.014	2.01	4.65	6.25	0.10	298	<10	<0.05	0.28	0.44	42.6
0968935		0.09		10.1	0.980	0.031	10.05		10.90	0.13	101.0	10	0.18	0.34	0.11	201
0968936		0.66	<0.005	<0.2	0.007	0.001	0.054	2.74	0.08	7.87	3.5	360	0.76	0.06	2.80	0.73
0968937		5.81	0.075	9.8	0.271	0.023	6.56	4.74	11.25	0.08	289	10	0.05	1.39	0.36	126.0
0968938		5.47	0.070	7.2	0.385	0.012	0.785	4.75	8.38	0.18	230	10	0.10	0.30	0.71	18.15
0968939		5.01	0.146	17.6	0.485	0.013	1.740	4.60	19.45	0.09	196.0	<10	0.18	2.39	1.14	39.7
0968940		5.72	0.101	9.7	0.692	0.009	0.415	4.48	10.45	0.03	157.0	<10	0.12	3.41	1.34	15.90
0968941		4.12	0.111	13.0	1.525	0.007	0.156	4.02	13.95	0.03	80.9	<10	0.14	18.80	0.17	4.25
0968942		2.45	0.108	12.9	0.802	0.005	0.163	3.60	13.40	0.15	85.2	<10	0.10	11.95	0.56	4.71
0968943		3.64	0.027	2.1	0.067	0.005	0.155	3.14	2.47	4.36	30.0	30	0.37	1.37	3.18	5.33
0968944		1.78	0.071	3.1	0.790	0.011	0.061	3.22	3.74	4.59	56.2	110	0.29	1.59	0.59	1.21
0968945		3.55	0.011	<0.2	0.121	0.005	0.118	2.99	0.49	8.55	5.0	<10	0.48	0.53	0.21	0.66
0968946		2.98	<0.005	<0.2	0.013	0.003	0.105	2.86	0.12	7.58	11.5	40	0.55	0.13	2.59	0.28

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
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MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 9-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10153019

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ce ppm 0.01	ME-MS61 Cu ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5
0968921		20.0	24.0	89	0.66	18.9	6.20	14.85	0.10	3.2	0.090	1.35	8.8	14.3	3.32	922
0968922		1.67	21.7	6	0.33	285	35.8	1.02	0.49	0.1	0.025	0.02	0.9	1.1	0.17	237
0968923		31.0	25.6	25	0.23	33.1	11.10	21.1	0.20	5.6	0.078	0.21	12.5	19.0	4.50	1050
0968924		31.0	38.2	23	0.33	143.5	14.50	18.45	0.26	4.4	0.099	0.10	13.6	18.3	4.74	1140
0968925		19.15	37.8	24	0.33	93.0	14.45	17.15	0.23	3.3	0.084	0.11	8.9	16.8	5.04	1420
0968926		22.8	35.0	27	0.33	86.4	10.75	18.45	0.20	3.5	0.095	0.45	10.5	21.8	4.72	1820
0968927		18.70	56.9	29	0.32	228	12.05	29.6	0.22	3.4	1.680	0.63	8.0	17.7	4.84	1770
0968928		16.10	752	6	0.68	9240	31.5	108.0	0.64	0.9	47.9	0.07	8.5	4.2	1.26	904
0968929		2.89	808	<1	0.24	7610	35.0	73.9	0.62	<0.1	65.0	0.02	1.7	0.4	0.08	498
0968930		6.08	30.4	27	0.33	323	16.50	50.1	0.22	3.1	9.52	1.03	2.5	7.1	1.63	1680
0968931		4.64	205	7	0.05	8080	42.0	14.60	0.71	0.5	6.88	0.01	2.7	1.0	0.42	486
0968932		10.50	18.0	31	0.07	103.0	27.6	26.8	0.32	4.5	0.644	0.10	4.7	8.1	3.54	2660
0968933		3.13	63.2	1	0.10	1845	44.3	15.45	1.16	0.7	7.70	0.01	1.6	0.5	0.52	507
0968934		2.07	16.3	<1	0.21	2360	47.6	13.75	1.01	<0.1	15.60	0.02	1.1	0.4	0.17	436
0968935		9.61	126.5	45	<0.05	>10000	42.7	46.1	1.52	0.2	21.1	0.01	4.2	0.3	1.14	169
0968936		20.1	9.3	20	0.62	46.9	2.68	21.6	0.10	1.4	0.242	1.01	8.7	13.4	0.87	394
0968937		4.17	62.0	3	0.20	2810	40.6	26.8	1.22	<0.1	68.5	0.03	2.3	<0.2	0.28	283
0968938		6.16	63.6	<1	0.35	3960	46.2	35.6	1.27	0.1	33.5	0.04	4.4	0.2	0.48	442
0968939		6.90	513	<1	0.15	4940	48.5	34.4	0.61	0.1	28.1	0.02	3.3	0.4	0.94	548
0968940		7.98	411	<1	0.11	9240	45.8	11.95	0.67	<0.1	9.90	0.01	3.8	0.3	1.24	843
0968941		12.25	374	2	0.11	>10000	41.7	3.78	0.90	<0.1	8.63	0.02	5.6	0.3	0.39	426
0968942		10.80	369	7	0.31	8450	31.3	2.49	0.80	0.1	8.46	0.03	5.0	0.2	0.33	1040
0968943		22.7	31.4	4	3.65	693	22.3	12.35	0.35	3.0	1.865	0.31	10.9	0.5	3.24	3530
0968944		28.8	94.1	3	1.47	2930	26.3	12.15	0.48	3.4	8.26	0.12	14.0	1.0	3.00	1240
0968945		66.7	27.5	17	0.20	1155	19.25	24.0	0.32	11.3	1.870	<0.01	29.8	5.2	6.66	2030
0968946		21.6	33.8	46	0.22	109.0	12.15	19.85	0.18	3.5	0.333	0.19	9.2	22.8	5.76	1680

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Projet: 642

Finalisée date: 9-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10153019

Description échantillon	Méthode élément unités LDI	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05
0968921		0.46	1.91	5.4	107.5	610	16.9	38.2	<0.002	0.46	1.29	19.1	1	1.8	63.2	0.37
0968922		2.67	<0.01	0.9	16.3	10	597	0.9	0.002	>10.0	37.7	1.0	4	0.3	1.2	<0.05
0968923		0.38	1.08	10.0	30.2	940	25.4	4.0	0.003	1.44	2.17	28.9	2	4.5	19.7	0.71
0968924		0.79	0.30	7.9	35.9	560	121.0	3.3	0.004	4.63	10.35	27.4	3	1.9	12.5	0.55
0968925		0.34	0.09	5.2	37.7	530	111.5	3.7	0.004	4.66	10.80	28.9	3	1.1	18.0	0.34
0968926		1.39	0.35	5.6	41.1	680	176.0	14.3	0.003	1.17	3.40	31.1	2	1.5	28.9	0.38
0968927		4.89	<0.01	4.9	46.3	670	1075	13.2	0.003	1.21	1.35	27.7	7	10.2	4.5	0.32
0968928		2.66	<0.01	2.1	16.0	180	1385	2.4	0.003	>10.0	24.8	7.5	87	16.1	13.0	0.11
0968929		0.60	<0.01	0.7	4.1	20	859	0.7	<0.002	>10.0	23.0	0.5	75	30.5	6.2	<0.05
0968930		0.67	<0.01	3.3	32.2	130	97.7	13.1	<0.002	>10.0	6.64	11.1	6	32.2	2.5	0.24
0968931		0.88	<0.01	1.4	8.4	10	139.5	0.2	<0.002	>10.0	14.40	2.4	70	7.1	1.0	0.05
0968932		0.95	<0.01	3.4	24.7	90	27.1	1.4	<0.002	>10.0	3.89	14.8	6	7.1	1.3	0.21
0968933		0.32	<0.01	1.6	2.3	<10	211	0.4	<0.002	>10.0	9.81	1.7	223	3.9	4.5	0.06
0968934		0.24	<0.01	0.9	0.9	<10	143.0	0.7	<0.002	>10.0	11.15	0.2	175	6.0	6.0	<0.05
0968935		0.76	<0.01	1.0	2.7	30	298	0.1	0.002	>10.0	5.34	0.2	356	3.2	3.2	<0.05
0968936		0.07	3.20	3.2	15.8	390	5.2	29.5	0.002	0.55	0.24	4.6	2	0.7	406	0.26
0968937		0.32	0.02	0.7	1.0	<10	225	0.8	<0.002	>10.0	7.38	0.2	252	23.8	5.2	<0.05
0968938		0.89	<0.01	1.1	0.9	<10	110.5	1.2	<0.002	>10.0	8.05	0.2	241	9.5	6.4	<0.05
0968939		0.92	<0.01	1.0	1.2	20	117.0	0.5	<0.002	>10.0	4.72	0.2	95	14.5	6.4	<0.05
0968940		10.35	<0.01	0.9	1.0	30	71.4	0.4	0.002	>10.0	8.28	0.1	57	6.4	7.6	<0.05
0968941		11.20	<0.01	0.8	1.0	30	46.3	0.4	<0.002	>10.0	2.44	0.1	159	5.4	1.8	<0.05
0968942		3.47	<0.01	0.7	0.7	20	34.9	1.1	<0.002	>10.0	1.35	0.3	183	5.3	5.2	<0.05
0968943		1.20	0.13	3.6	5.6	220	8.0	12.2	0.002	7.65	0.46	8.7	34	5.4	53.3	0.27
0968944		1.92	0.03	4.7	6.1	330	82.2	4.5	<0.002	>10.0	0.82	8.9	69	5.8	6.7	0.30
0968945		1.75	<0.01	18.3	12.7	290	6.4	0.2	0.002	1.48	0.34	21.8	9	12.4	3.1	1.29
0968946		0.41	0.18	5.0	36.0	620	1.2	6.0	0.002	0.11	0.19	42.7	2	6.2	40.4	0.33

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MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 9-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10153019

Description échantillon	Méthode élément unités L.D.	ME-MS61 Te ppm 0.05	ME-MS61 Ti ppm 0.2	ME-MS61 Tl % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
0968921		0.13	1.2	0.473	0.90	0.3	123	0.3	18.1	221	120.0			
0968922		0.43	<0.2	0.015	2.15	<0.1	7	0.1	1.1	46	3.8			
0968923		0.05	2.2	0.772	0.16	0.6	188	0.6	44.9	326	165.5			
0968924		0.34	2.0	0.642	0.13	0.5	176	0.4	39.6	305	141.0			
0968925		0.15	1.0	0.641	0.14	0.3	207	0.3	29.5	311	107.0			
0968926		0.12	1.1	0.690	0.30	0.3	219	0.4	30.5	464	114.0			
0968927		21.4	1.0	0.586	0.51	0.3	205	0.8	23.3	1780	117.0			
0968928		71.7	0.3	0.168	1.79	0.2	54	1.1	10.7	>10000	30.3	98		5.04
0968929		27.3	<0.2	<0.005	2.25	<0.1	4	2.4	1.3	>10000	1.1			9.15
0968930		2.87	0.6	0.203	1.24	0.3	74	1.3	4.2	>10000	111.0			2.44
0968931		53.5	0.2	0.046	1.71	0.1	17	0.4	1.3	>10000	18.1			2.37
0968932		2.42	0.7	0.233	0.22	0.5	84	1.0	4.2	1780	166.0			
0968933		156.5	0.3	0.047	0.46	0.1	9	0.2	1.4	>10000	28.3			1.480
0968934		94.4	<0.2	<0.005	1.07	<0.1	5	0.1	0.9	>10000	0.7			2.08
0968935		228	<0.2	<0.005	0.12	0.1	5	0.2	2.8	>10000	5.7		0.987	9.69
0968936		0.60	1.4	0.221	0.13	0.3	47	0.5	6.0	372	30.2			
0968937		176.5	<0.2	<0.005	0.68	0.1	2	0.1	1.4	>10000	1.0			5.62
0968938		101.0	<0.2	0.010	0.97	0.1	5	0.2	2.4	7990	4.0			
0968939		137.0	<0.2	0.005	0.62	0.1	5	0.1	2.6	>10000	2.1			1.750
0968940		72.9	<0.2	<0.005	0.30	0.2	5	0.1	2.8	4240	0.8			
0968941		66.3	<0.2	<0.005	0.19	0.1	4	0.1	2.5	1630	<0.5		1.525	
0968942		61.7	<0.2	0.009	0.09	<0.1	2	0.1	2.8	1690	4.0			
0968943		7.97	1.3	0.246	0.02	0.3	38	0.2	11.3	1600	104.5			
0968944		60.3	1.3	0.247	0.04	0.3	41	0.3	11.0	496	119.5			
0968945		2.08	3.9	0.457	<0.02	1.1	106	0.8	44.4	545	342			
0968946		0.24	0.8	0.579	0.08	0.2	304	0.8	21.7	374	107.5			

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Projet: 642

Finalisée date: 9-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10153019

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Finalisée date: 12-NOV-2010
Compte: NORMAT

CERTIFICAT VO10153270

Projet: 642

Bon de commande #:

Ce rapport s'applique aux 36 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 19-OCT-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Minerals

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CERTIFICAT D'ANALYSE VO10153270

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA15 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 La ppm 0.01	ME-MS61 Cd ppm 0.02
0968947		2.32	<0.005	<0.2	0.007	0.001	0.049	2.84	0.07	9.82	9.0	380	0.81	0.03	6.21	0.18
0968948		1.71	0.013	0.6	0.004	0.011	0.187	2.87	0.78	6.50	18.2	110	0.60	0.26	1.15	5.12
0968949		1.50	0.009	1.9	0.022	0.006	0.466	3.33	2.36	5.51	64.6	10	0.35	0.14	0.80	12.40
0968950		2.88	0.031	5.8	0.014	0.018	1.540	3.08	5.97	8.54	143.5	10	0.43	0.13	0.66	29.4
0968951		1.61	0.008	0.6	0.009	0.156	0.352	3.00	1.02	7.13	91.7	110	0.62	0.10	0.51	7.10
0968952		2.10	0.009	0.7	0.021	0.045	0.988	3.09	1.31	7.55	152.0	20	0.36	0.17	0.80	19.60
0968953		4.40	0.122	33.3	2.12	0.188	0.650	4.66	35.8	0.26	529	20	0.44	32.6	0.03	10.80
0968954		2.88	0.093	19.6	0.542	0.430	2.43	4.90	20.5	0.09	460	10	0.51	27.6	0.02	34.8
0968955		4.23	0.032	17.0	0.130	0.221	17.10	4.58	17.95	0.11	473	10	<0.05	11.35	0.02	289
0968956		4.90	<0.005	22.2	0.175	0.142	10.25	4.57	25.5	0.17	595	10	<0.05	11.35	0.01	246
0968957		4.72	0.028	11.6	0.119	0.141	9.64	4.16	11.65	0.57	577	20	0.05	4.67	0.05	260
0968958		2.38	<0.005	0.5	0.009	0.064	0.263	2.88	0.86	6.99	78.4	380	1.30	0.91	0.67	4.64
0968959		3.17	<0.005	0.2	0.013	0.050	0.137	2.86	0.64	7.02	81.0	170	0.93	0.47	2.85	2.31
0968960		3.02	0.081	18.5	0.183	0.256	0.423	2.85	18.20	6.28	165.5	10	0.68	54.7	3.77	8.59
0968961		2.09	0.144	50.7	1.215	0.129	2.39	4.10	55.5	1.42	515	20	0.97	160.5	0.43	34.4
0968962		2.50	0.101	14.8	0.367	0.024	13.80	4.31	13.85	0.34	578	<10	0.17	4.08	0.30	202
0968963		4.07	0.160	30.4	1.870	0.041	4.40	4.08	26.3	0.07	411	10	0.39	1.42	1.33	87.1
0968964		3.96	0.123	33.5	1.680	0.070	1.450	3.67	31.9	0.09	334	<10	0.42	2.01	3.12	33.0
0968965		2.36	0.009	0.8	0.007	0.005	0.096	2.85	0.81	6.28	29.2	10	0.21	0.48	0.13	1.14
0968966		0.11		11.0	0.976	0.030	9.94		10.60	0.13	107.5	10	0.13	0.32	0.10	195.5
0968967		0.50	<0.005	0.2	0.010	<0.001	0.036	2.74	0.17	7.42	1.9	380	0.74	0.14	3.11	0.52
0968968		2.46	<0.005	1.2	0.065	0.003	0.313	2.89	1.22	6.64	32.1	<10	0.33	1.02	0.12	5.75
0968969		4.23	0.048	9.3	0.192	0.023	0.921	3.68	8.59	0.58	286	10	0.34	3.71	5.89	19.00
0968970		3.17	0.069	6.6	0.333	0.065	0.326	4.17	8.14	0.36	338	10	0.16	6.54	4.01	6.38
0968971		3.49	0.048	5.6	0.371	0.080	1.225	3.85	5.73	0.24	283	10	0.25	3.34	6.27	25.6
0968972		3.92	0.056	9.2	0.517	0.029	7.32	4.01	8.86	0.09	482	10	0.10	0.85	4.97	126.0
0968973		4.03	0.098	17.1	0.343	0.011	0.318	3.78	19.80	3.77	294	<10	0.56	0.27	1.72	6.43
0968974		4.54	0.193	17.2	0.020	0.018	1.585	4.01	16.05	2.12	418	<10	0.32	0.63	2.06	29.7
0968975		4.42	0.111	14.6	0.071	0.031	3.37	3.97	13.35	1.48	244	<10	0.22	3.99	2.27	64.2
0968976		2.87	0.123	16.9	1.100	0.064	0.743	4.54	15.95	0.19	208	10	0.11	9.43	2.45	15.35
0968977		4.26	0.084	18.5	0.139	0.048	0.261	4.58	18.35	0.05	276	10	0.05	13.40	1.05	5.30
0968978		3.09	0.060	12.2	0.096	0.020	7.66	4.66	11.60	0.04	269	<10	0.07	6.53	0.82	135.5
0968979		3.60	0.076	12.0	0.129	0.013	12.15	4.62	12.55	0.08	272	10	<0.05	6.20	0.89	285
0968980		4.06	0.133	15.7	0.331	0.009	0.163	4.78	15.60	0.15	149.0	<10	<0.05	8.50	0.69	4.17
0968981		2.61	0.144	16.9	0.196	0.010	0.054	3.88	19.65	2.67	94.3	<10	0.07	40.4	2.05	0.91
0968982		2.48	0.007	0.2	0.011	0.001	0.055	2.78	0.21	7.59	28.2	230	0.54	0.90	4.68	0.93

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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CERTIFICAT D'ANALYSE VO10153270

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5
0968947		5.94	23.0	88	0.55	59.5	5.13	17.75	0.08	0.9	0.053	1.50	2.3	17.5	2.28	1010
0968948		32.6	18.9	15	0.20	38.1	9.95	15.70	0.14	6.7	0.430	0.44	14.5	15.1	3.36	1220
0968949		21.9	8.8	6	0.20	215	23.6	15.20	0.30	3.9	1.880	0.01	10.5	2.5	3.78	1220
0968950		35.3	30.4	14	0.05	111.5	22.5	24.9	0.43	9.6	2.72	0.03	14.2	15.7	3.29	1600
0968951		19.05	23.6	33	0.11	85.0	18.60	28.0	0.29	6.0	0.465	0.40	8.6	20.2	3.29	1500
0968952		15.10	49.3	60	0.05	193.0	21.0	26.5	0.22	5.1	2.03	0.06	5.5	16.0	3.60	1480
0968953		1.32	1225	5	0.42	>10000	39.3	12.55	0.92	0.1	23.5	0.04	0.7	0.4	0.14	114
0968954		2.89	465	2	0.39	5710	41.2	17.45	0.86	<0.1	23.3	0.04	1.6	0.3	0.06	87
0968955		0.35	199.0	2	0.16	1285	31.0	27.8	0.55	0.1	72.7	0.02	<0.5	0.3	0.05	85
0968956		0.49	99.3	2	0.15	1810	35.3	42.8	0.57	0.1	182.0	0.01	<0.5	0.3	0.06	88
0968957		2.45	38.9	9	0.12	1175	29.2	29.7	0.36	0.2	58.7	0.04	1.1	1.0	0.22	218
0968958		46.1	27.0	34	0.37	74.3	10.85	23.4	0.19	7.2	0.822	1.10	20.0	16.8	3.42	1160
0968959		19.65	41.2	61	0.29	123.0	9.65	18.55	0.14	3.3	1.225	0.69	8.2	20.9	3.95	1850
0968960		86.5	112.5	332	0.13	1785	10.65	18.95	0.31	4.0	3.31	0.02	38.3	10.3	6.13	1930
0968961		8.15	537	9	2.46	>10000	34.2	57.8	0.99	0.8	29.4	0.21	3.6	0.4	1.12	798
0968962		1.57	152.5	3	1.10	3750	27.8	39.7	0.56	0.2	23.5	0.09	0.7	0.2	0.48	948
0968963		3.49	512	4	0.24	>10000	37.4	21.8	1.10	<0.1	42.5	0.02	1.8	0.2	0.74	1480
0968964		3.44	488	1	0.19	>10000	31.4	8.09	1.41	<0.1	30.1	0.02	2.0	0.3	0.99	2440
0968965		15.85	26.2	32	0.06	82.9	14.85	26.6	0.17	3.1	0.529	0.01	7.6	10.2	4.11	3280
0968966		8.82	123.5	47	<0.05	>10000	39.8	41.1	1.75	0.2	23.9	<0.01	3.9	0.2	1.05	154
0968967		14.00	9.7	17	0.70	82.4	2.39	19.40	<0.05	1.1	0.229	1.16	5.9	18.0	0.83	400
0968968		20.6	28.2	20	0.11	684	15.90	16.80	0.25	3.8	1.450	0.01	10.4	0.8	5.90	2740
0968969		9.87	119.5	3	0.92	1910	31.7	10.75	1.05	0.3	5.42	0.08	5.5	0.3	2.07	5320
0968970		5.39	142.5	1	0.27	2870	35.6	15.75	1.44	0.2	3.50	0.02	2.6	0.2	2.02	6980
0968971		3.85	130.0	1	0.11	4050	36.4	18.15	1.37	0.1	12.10	<0.01	2.0	0.2	2.63	11400
0968972		2.08	94.3	<1	0.11	5430	32.5	15.75	1.34	<0.1	18.70	0.01	1.4	0.2	1.72	5850
0968973		12.55	23.7	13	0.42	3560	31.6	14.75	0.68	2.2	4.70	0.03	6.1	0.2	4.02	3100
0968974		6.02	3.3	4	0.07	193.5	32.8	6.76	0.52	1.2	0.510	<0.01	3.1	0.2	2.98	3130
0968975		5.31	12.2	3	<0.05	700	33.0	15.80	0.97	0.8	7.82	<0.01	2.7	0.2	2.53	2650
0968976		4.08	252	<1	<0.05	>10000	41.8	5.79	1.78	0.1	9.62	<0.01	2.1	<0.2	1.27	2920
0968977		5.80	309	<1	<0.05	1460	45.5	4.07	1.78	0.1	4.15	<0.01	3.0	<0.2	0.57	1440
0968978		3.07	75.8	<1	0.06	982	37.6	11.60	0.80	<0.1	14.40	0.01	1.6	<0.2	0.50	1040
0968979		2.82	20.5	3	0.12	1425	35.4	25.5	0.89	<0.1	38.0	0.02	1.5	<0.2	0.52	1100
0968980		4.52	183.5	3	0.09	3810	43.9	2.37	2.09	0.1	3.42	0.01	2.3	<0.2	0.52	738
0968981		18.00	247	5	0.09	2090	35.3	16.00	2.20	1.6	0.715	<0.01	9.1	0.9	2.77	1060
0968982		26.5	37.6	84	0.62	98.6	6.33	18.50	0.14	2.4	0.279	1.27	10.7	18.9	3.53	1420

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Description échantillon	Méthode élément unités LD	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05
0968947		0.31	3.02	2.1	43.5	240	9.7	31.8	<0.002	0.10	0.63	20.0	1	0.7	130.0	0.13
0968948		1.42	0.86	11.4	15.6	340	99.4	15.8	0.002	1.93	1.24	16.4	4	4.9	19.7	0.74
0968949		0.41	0.01	5.9	6.8	120	22.7	0.3	<0.002	>10.0	2.54	9.6	3	21.2	5.5	0.36
0968950		2.28	0.01	24.6	21.2	950	147.5	0.8	0.003	4.07	4.50	19.7	8	53.2	3.1	1.65
0968951		1.44	0.01	18.5	22.9	880	1605	2.9	0.003	2.66	3.93	25.1	5	38.2	3.6	1.22
0968952		1.27	0.01	11.1	36.0	680	437	0.7	0.003	4.41	3.92	36.3	7	43.3	2.7	0.74
0968953		4.04	0.01	0.7	10.1	20	1960	1.5	<0.002	>10.0	19.45	0.9	116	14.8	5.7	<0.05
0968954		3.63	0.01	0.6	7.4	20	4710	1.5	<0.002	>10.0	22.6	0.3	94	6.8	3.5	<0.05
0968955		6.66	0.02	0.5	4.0	<10	2350	0.7	<0.002	>10.0	20.4	0.4	56	19.4	1.7	<0.05
0968956		16.40	0.01	0.7	7.5	<10	1515	0.4	0.002	>10.0	24.9	0.4	42	14.4	1.1	<0.05
0968957		1.66	0.01	0.8	9.9	20	1450	1.4	<0.002	>10.0	24.7	2.1	18	14.1	1.0	<0.05
0968958		0.74	0.02	16.9	23.9	710	627	35.4	0.002	2.02	3.62	29.5	5	32.7	5.6	1.13
0968959		0.46	0.50	6.2	41.9	530	471	24.3	0.002	1.33	2.42	39.1	4	9.5	38.0	0.39
0968960		7.55	0.01	6.6	138.5	2120	2450	0.8	0.002	1.76	1.91	29.6	19	15.3	83.7	0.37
0968961		101.0	0.04	1.8	36.7	160	1185	8.3	0.010	>10.0	10.95	6.3	161	9.8	22.3	0.09
0968962		4.52	0.04	0.7	6.3	<10	225	3.5	<0.002	>10.0	18.95	0.9	92	11.6	5.4	<0.05
0968963		1.39	0.01	0.6	4.6	40	366	0.6	<0.002	>10.0	23.4	0.4	204	24.9	6.6	<0.05
0968964		1.22	0.01	0.5	2.9	30	667	0.5	<0.002	>10.0	18.75	0.3	339	17.2	20.2	<0.05
0968965		1.05	0.01	3.5	33.3	390	24.3	0.5	<0.002	1.28	2.52	10.0	6	3.2	3.5	0.26
0968966		0.70	0.02	0.9	2.1	10	281	0.1	<0.002	>10.0	5.09	0.2	405	3.2	3.5	<0.05
0968967		0.10	3.01	2.9	15.4	390	7.2	25.0	<0.002	0.29	0.22	4.6	2	0.6	325	0.20
0968968		1.35	0.01	5.5	31.1	430	22.6	0.8	0.002	1.27	0.78	11.5	11	5.0	2.5	0.38
0968969		0.70	0.03	1.0	15.1	70	267	3.0	<0.002	>10.0	11.15	1.2	205	3.2	30.6	<0.05
0968970		0.41	0.01	0.9	16.5	80	587	0.7	0.002	>10.0	14.05	0.9	336	2.4	23.8	<0.05
0968971		0.57	0.01	0.7	10.8	110	577	0.1	0.002	>10.0	9.41	0.8	315	3.2	33.3	<0.05
0968972		0.30	0.01	0.5	5.5	40	269	0.3	<0.002	>10.0	10.70	0.2	295	7.7	20.1	<0.05
0968973		0.60	0.01	3.4	9.1	60	56.4	1.1	<0.002	>10.0	4.12	5.8	84	4.9	10.0	0.21
0968974		0.37	0.01	2.1	3.1	90	138.5	0.1	<0.002	>10.0	7.05	2.7	43	6.1	13.3	0.11
0968975		0.20	0.01	1.6	2.9	50	266	0.1	<0.002	>10.0	4.33	2.3	155	7.7	14.3	0.08
0968976		0.64	0.01	0.8	1.0	10	601	0.1	<0.002	>10.0	7.47	0.3	417	3.4	9.4	<0.05
0968977		0.31	<0.01	0.8	0.9	10	453	0.1	<0.002	>10.0	8.14	0.1	389	3.0	5.8	<0.05
0968978		0.27	0.01	0.6	0.7	20	174.0	0.2	<0.002	>10.0	3.09	0.1	100	4.8	4.7	<0.05
0968979		0.31	0.01	0.7	2.2	20	104.5	0.6	<0.002	>10.0	2.58	0.1	76	4.3	5.3	<0.05
0968980		2.73	0.01	1.0	1.9	10	65.1	0.4	<0.002	>10.0	1.70	0.1	334	1.3	5.5	<0.05
0968981		2.44	<0.01	2.3	5.4	50	72.6	0.1	<0.002	>10.0	5.84	3.1	429	4.7	18.7	0.14
0968982		0.70	1.09	4.2	113.5	780	2.0	32.3	<0.002	0.37	0.43	19.6	4	2.4	79.5	0.29

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION – MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 12-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10153270

Description échantillon	Méthode élément unités L.D.	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
0968947		0.10	0.2	0.331	0.70	0.1	141	0.2	10.7	147	26.4		
0968948		0.81	2.7	0.427	0.35	0.7	87	0.3	46.6	1720	234		
0968949		4.11	1.7	0.315	0.05	0.5	45	0.2	17.8	4840	155.5		
0968950		16.50	3.3	0.567	0.16	1.1	110	0.4	94.9	>10000	310		1.660
0968951		1.55	1.2	0.712	0.54	0.6	211	0.7	48.1	3620	251		
0968952		3.27	0.9	0.830	0.46	0.4	298	0.6	45.5	9490	170.0		
0968953		294	<0.2	0.016	0.34	0.1	7	0.2	3.9	6490	4.7	2.14	
0968954		190.6	<0.2	<0.005	0.91	<0.1	3	0.2	4.2	>10000	1.0		2.43
0968955		93.8	<0.2	0.008	4.04	<0.1	4	0.2	0.7	>10000	2.1		17.45
0968956		61.4	<0.2	0.009	4.18	<0.1	4	0.2	0.6	>10000	3.7		10.55
0968957		20.5	<0.2	0.041	2.62	0.1	18	0.2	4.0	>10000	8.0		9.30
0968958		0.75	2.6	0.842	1.03	0.6	197	0.4	62.1	2640	220		
0968959		0.53	0.7	0.772	0.59	0.2	298	0.4	38.2	1380	112.0		
0968960		19.15	4.2	0.591	0.05	1.1	220	0.3	31.7	4170	161.0		
0968961		>500	0.4	0.101	1.10	0.8	47	0.5	7.9	>10000	32.1	1.260	2.45
0968962		90.5	<0.2	0.026	0.80	0.1	7	0.4	2.1	>10000	8.2		13.75
0968963		111.5	<0.2	0.005	0.88	0.1	4	0.1	4.3	>10000	1.9	1.695	4.51
0968964		105.5	<0.2	<0.005	0.50	0.1	2	0.1	5.1	>10000	1.5	1.735	1.675
0968965		7.65	1.8	0.235	0.08	0.4	74	0.4	10.5	929	125.5		
0968966		232	<0.2	<0.005	0.10	0.1	2	0.2	2.9	>10000	6.2	1.020	10.15
0968967		0.57	0.9	0.208	0.13	0.3	51	1.6	5.6	331	27.6		
0968968		9.75	1.8	0.328	0.03	0.5	81	1.1	12.8	3060	150.5		
0968969		133.0	0.2	0.030	0.29	0.2	8	0.1	6.7	8270	13.6		
0968970		371	<0.2	0.018	0.44	0.1	8	0.1	4.8	3110	7.8		
0968971		351	<0.2	0.010	0.11	0.1	5	0.1	5.6	>10000	6.1		1.320
0968972		169.5	<0.2	<0.005	0.84	0.1	2	0.2	2.6	>10000	1.6		7.30
0968973		103.0	1.0	0.229	0.57	0.3	35	0.4	6.9	3070	82.6		
0968974		183.0	0.6	0.109	0.46	0.2	13	0.2	3.4	>10000	47.9		1.690
0968975		258	0.4	0.082	0.10	0.1	12	0.1	2.8	>10000	32.9		3.33
0968976		>500	<0.2	0.011	1.16	0.1	2	0.1	1.4	6670	5.0	1.135	
0968977		401	<0.2	<0.005	0.28	<0.1	1	0.1	1.0	2470	2.4		
0968978		188.5	<0.2	<0.005	0.13	<0.1	<1	0.1	0.9	>10000	1.1		7.86
0968979		129.5	<0.2	<0.005	0.43	<0.1	1	0.1	1.0	>10000	1.2		12.55
0968980		108.5	<0.2	0.007	0.13	0.1	3	0.1	1.8	1700	2.3		
0968981		167.5	0.7	0.126	0.07	0.4	26	0.7	6.6	511	57.2		
0968982		22.9	1.0	0.415	0.75	0.3	111	0.4	13.8	536	92.3		

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À: XSTRATA ZINC CANADA EXPLORATION
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Projet: 642

Finalisée date: 12-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10153270

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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ALS Minerals

À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
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MATAGAMI QC J0Y 2A0

Finalisée date: 13-NOV-2010
Compte: NORMAT

CERTIFICAT VO10154544

Projet: 642

Bon de commande #:

Ce rapport s'applique aux 40 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 21-OCT-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon – Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné – div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe – Reçu sans code barre
CRU-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative – échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments – quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu – quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn – quatre acides	VARIABLE
Ag-AA45	Trace Ag – Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu – Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb – Aqua regia/AA	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION – MINE MATAGAMI
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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Projet: 642

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CERTIFICAT D'ANALYSE VO10154544

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02
0968983		2.13	<0.005	<0.2	0.003	0.006	0.080	2.90	0.20	7.66	24.3	120	0.60	0.15	1.03	0.14
0968984		5.53	0.045	12.3	0.354	0.084	7.62	3.88	14.25	0.13	718	10	0.05	16.30	0.45	132.5
0968985		5.38	<0.005	11.3	0.443	0.052	14.00	4.37	13.60	0.29	535	10	<0.05	10.45	0.23	330
0968986		3.68	0.040	5.1	0.069	0.047	11.85	4.52	6.61	0.05	798	10	<0.05	0.57	0.07	213
0968987		3.72	0.073	8.6	0.348	0.050	6.69	4.53	10.45	0.09	877	10	0.06	0.22	0.80	138.5
0968988		3.84	0.065	9.1	0.382	0.234	12.35	4.32	11.30	0.05	628	<10	<0.05	0.20	0.29	303
0968989		3.33	0.067	8.4	0.474	0.213	6.77	3.78	9.82	0.01	571	<10	<0.05	0.10	0.02	194.5
0968990		4.27	0.080	20.2	0.254	0.064	5.42	3.94	22.8	0.19	809	10	0.07	4.52	0.84	110.0
0968991		3.73	0.069	22.1	0.451	0.029	5.43	4.71	26.1	0.22	733	10	<0.05	4.71	0.12	122.5
0968992		3.16	0.035	14.6	0.676	0.022	6.23	4.41	18.05	1.39	616	10	<0.05	0.24	0.02	143.5
0968993		2.24	0.032	10.9	0.276	0.015	5.24	4.40	11.50	2.70	398	10	0.10	0.21	0.02	121.5
0968994		3.37	0.121	17.3	0.274	0.027	1.240	4.57	19.85	1.12	416	30	<0.05	0.42	0.02	33.4
0968995		3.56	0.179	20.0	1.595	0.078	0.406	4.67	22.8	0.19	387	60	<0.05	1.72	0.20	10.10
0968996		4.18	0.168	15.4	1.550	0.072	0.197	4.68	19.30	0.13	466	30	<0.05	1.98	0.12	5.35
0968997		4.02	0.111	12.3	0.494	0.035	0.354	4.74	15.65	0.17	470	20	<0.05	2.43	0.23	9.88
0968998		4.10	0.072	8.8	0.679	0.030	1.545	4.46	9.44	0.14	370	30	0.05	2.76	1.14	38.3
0968999		0.13		9.6	0.507	0.027	9.74		11.15	0.12	92.1	10	0.14	0.34	0.10	196.0
0969000		0.53	<0.005	<0.2	0.016	<0.001	0.036	2.75	0.17	7.26	4.3	330	0.98	0.13	2.73	0.49
0969401		2.28	0.050	6.5	0.587	0.065	1.080	3.76	7.77	0.07	132.0	30	0.61	6.70	5.52	38.0
0969402		4.37	0.097	9.3	1.365	0.038	1.830	4.00	10.90	0.03	213	10	0.32	2.31	6.17	44.9
0969403		3.35	0.149	13.1	0.622	0.035	1.975	4.53	14.30	0.64	595	10	0.35	5.44	4.10	43.1
0969404		4.12	0.145	20.1	1.090	0.068	2.98	4.00	22.4	0.39	290	10	0.44	9.67	3.10	60.8
0969405		3.83	0.008	<0.2	0.022	0.004	0.205	3.10	0.39	5.19	136.5	<10	0.38	0.25	0.30	3.57
0969406		1.79	0.009	0.7	0.019	0.011	1.125	3.58	0.68	2.13	102.5	<10	0.21	0.03	7.17	24.9
0969407		4.54	0.058	4.9	0.358	0.023	2.77	4.56	5.37	1.09	207	<10	0.11	9.40	2.02	70.0
0969408		3.58	0.056	9.5	0.580	0.038	1.410	4.49	10.15	0.37	123.0	10	0.05	10.85	1.89	39.0
0969409		2.04	0.050	6.0	0.527	0.022	0.444	4.11	6.85	3.95	65.1	<10	0.12	1.69	0.12	13.85
0969410		2.63	0.016	1.5	0.145	0.009	0.429	3.29	1.68	6.66	29.2	<10	0.30	1.35	0.07	12.25
0969411		3.04	0.017	1.1	0.080	0.010	0.077	3.10	1.62	5.88	27.1	<10	0.25	0.83	0.04	0.74
0969412		4.03	0.055	5.9	0.595	0.013	0.154	4.13	6.06	1.48	92.8	<10	0.07	5.29	2.57	4.33
0969413		5.65	0.054	5.7	0.845	0.009	0.625	4.27	5.90	0.17	100.0	10	0.05	7.47	1.87	16.85
0969414		2.09	0.053	5.3	0.205	0.004	0.241	3.40	5.54	0.14	60.5	10	0.09	11.15	3.77	6.55
0969415		5.50	0.060	5.5	0.482	0.007	0.048	4.44	6.02	0.18	106.5	30	0.09	50.7	2.22	2.53
0969416		2.17	0.040	2.4	0.338	0.006	0.047	3.61	2.97	5.05	41.3	<10	0.26	325	0.14	0.54
0969417		1.69	0.014	0.9	0.151	0.003	0.062	2.36	1.34	4.74	18.9	<10	0.45	18.85	0.06	0.55
0969418		3.19	<0.005	<0.2	0.026	0.001	0.017	2.78	0.17	7.91	6.5	310	0.73	1.42	3.66	0.13
0969419		2.43	<0.005	<0.2	0.012	0.001	0.022	2.43	0.15	7.79	12.4	200	0.53	5.15	4.09	0.10
0969420		3.35	0.032	1.2	0.254	0.004	0.219	3.13	1.69	4.11	26.7	10	0.55	53.8	2.66	10.30
0969421		1.82	0.058	2.1	0.022	0.006	0.052	2.94	2.78	4.31	5.8	10	0.65	15.90	2.44	0.42
0969422		1.54	0.010	<0.2	0.033	0.001	0.030	2.78	0.25	6.19	0.7	30	0.76	0.96	1.86	0.09

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Projet: 642

Finalisée date: 13-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10154544

Description échantillon	Méthode élément unités LdD	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5
0968983		22.5	39.4	38	0.30	9.6	12.25	25.8	0.26	3.9	0.139	0.48	9.5	18.7	5.84	2440
0968984		2.04	63.3	3	0.98	3620	31.5	54.4	0.42	0.1	16.85	0.05	1.0	0.3	0.27	753
0968985		2.58	305	3	0.35	4700	28.7	82.7	0.38	0.1	62.7	0.01	1.3	0.4	0.24	489
0968986		0.46	96.1	1	0.61	741	34.1	41.2	0.44	<0.1	50.2	0.02	<0.5	0.2	0.07	415
0968987		1.95	376	1	0.83	4030	37.2	71.3	0.51	<0.1	57.0	0.04	1.1	0.2	0.20	853
0968988		0.74	446	2	0.39	4480	32.1	98.1	0.41	<0.1	102.0	0.02	<0.5	0.2	0.12	576
0968989		0.29	526	6	0.12	5240	26.4	63.2	0.39	<0.1	47.1	<0.01	<0.5	0.2	0.04	258
0968990		4.24	336	8	0.87	2920	34.0	67.7	0.49	0.1	35.7	0.05	2.7	0.2	0.16	629
0968991		1.47	88.0	2	0.27	5340	39.6	26.9	0.54	0.1	23.8	0.01	1.0	0.2	0.13	240
0968992		63.9	283	7	0.08	7390	36.1	47.5	0.64	0.9	58.6	<0.01	46.3	0.3	0.80	728
0968993		32.6	274	12	0.17	2810	34.5	49.5	0.48	1.4	32.6	<0.01	21.4	1.8	1.00	1440
0968994		101.0	274	6	0.21	3070	40.7	33.3	0.66	0.7	22.1	0.01	68.6	0.4	0.43	389
0968995		28.4	257	3	0.52	>10000	41.8	6.17	0.68	0.1	18.90	0.04	18.5	0.3	0.12	222
0968996		5.46	342	6	0.48	>10000	42.0	3.61	0.82	<0.1	17.70	0.04	3.4	0.3	0.09	215
0968997		6.12	112.5	4	0.38	5910	42.6	7.47	0.76	0.1	13.90	0.03	3.8	0.3	0.10	189
0968998		7.75	80.2	2	0.67	7700	38.6	5.21	0.69	<0.1	30.0	0.06	4.7	0.3	0.32	669
0968999		14.35	106.0	41	<0.05	>10000	40.0	36.4	1.34	0.2	24.5	<0.01	6.2	0.2	1.09	148
0969000		17.80	13.7	33	0.43	153.5	2.88	21.2	0.13	1.4	0.355	0.67	6.1	12.5	1.01	385
0969401		28.5	131.5	<1	0.38	6490	36.9	22.3	0.83	<0.1	12.05	0.03	15.4	0.7	1.96	2940
0969402		14.05	283	<1	0.17	>10000	37.8	13.05	1.00	<0.1	23.9	0.01	7.8	0.4	1.46	3770
0969403		15.85	137.0	1	0.93	6300	36.5	14.95	0.75	0.3	21.4	0.06	8.6	0.4	0.56	1510
0969404		8.57	219	1	0.81	>10000	37.8	20.3	0.84	0.1	24.9	0.09	4.6	0.3	1.65	2390
0969405		21.7	8.3	8	0.06	65.0	18.00	13.60	0.22	3.4	0.264	<0.01	10.7	0.8	5.17	1730
0969406		15.10	3.1	4	0.05	108.5	22.8	8.12	0.34	1.0	1.750	<0.01	7.4	0.4	4.76	5690
0969407		6.40	84.1	1	0.08	3950	36.5	19.20	0.56	0.5	25.6	0.01	3.3	<0.2	1.91	1890
0969408		11.80	83.1	<1	<0.05	6010	41.5	17.05	1.07	0.1	25.2	0.01	7.0	<0.2	0.94	1320
0969409		34.7	167.5	2	0.10	5840	34.4	22.8	1.46	2.6	11.55	<0.01	17.9	3.0	4.25	619
0969410		42.6	67.2	2	0.27	1400	20.8	27.5	0.67	4.7	5.65	<0.01	20.8	6.1	7.77	1200
0969411		17.85	37.5	8	0.20	631	22.7	24.6	0.73	4.3	1.735	<0.01	9.1	7.3	7.80	1260
0969412		11.60	141.0	<1	<0.05	6400	35.1	9.75	0.59	0.9	10.65	<0.01	6.6	1.1	2.81	1180
0969413		28.2	180.0	<1	0.09	8980	40.0	6.70	0.89	<0.1	19.95	0.02	13.2	0.2	1.80	1180
0969414		6.29	68.0	2	0.35	2060	22.8	3.47	0.38	<0.1	2.54	0.07	3.0	0.5	3.11	2100
0969415		14.65	346	1	0.18	5740	39.6	6.40	0.86	0.1	5.73	0.02	6.8	0.6	1.81	978
0969416		127.0	332	5	0.14	3650	25.5	51.6	0.60	8.0	1.825	<0.01	52.6	16.1	5.68	828
0969417		73.2	61.6	2	0.19	1505	18.40	30.6	0.34	12.8	0.806	<0.01	32.5	34.5	8.54	1200
0969418		12.95	30.7	66	0.62	270	6.05	18.45	0.11	2.5	0.288	1.71	5.7	18.3	2.71	787
0969419		21.4	34.9	45	0.47	102.5	8.32	19.80	0.13	3.0	0.225	1.10	9.8	17.4	3.15	801
0969420		81.0	54.6	3	0.07	2650	17.25	25.9	0.40	10.8	5.09	0.02	35.8	7.0	7.41	1140
0969421		75.6	13.1	2	0.10	226	15.00	19.35	0.33	11.3	2.39	0.01	32.9	6.6	7.52	1120
0969422		75.6	17.7	10	0.15	222	7.82	22.7	0.23	9.5	0.906	0.10	33.2	14.3	3.71	746

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
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Projet: 642

Finalisée date: 13-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10154544

Description échantillon	Méthode élément unités L.D.	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05
0968983		0.36	0.01	6.5	43.5	880	36.1	18.5	0.002	0.02	0.85	29.5	2	11.1	4.0	0.40
0968984		2.74	0.02	0.2	8.2	20	762	1.7	<0.002	>10.0	41.8	0.4	24	13.1	4.2	<0.05
0968985		2.31	0.01	0.4	10.0	20	512	0.6	<0.002	>10.0	32.9	0.6	24	41.1	1.6	<0.05
0968986		0.44	0.01	0.3	3.1	<10	468	1.0	<0.002	>10.0	42.7	0.1	20	46.7	1.2	<0.05
0968987		0.53	0.02	0.3	3.7	10	521	1.5	<0.002	>10.0	53.3	0.1	37	32.2	4.2	<0.05
0968988		0.50	0.01	0.2	2.4	<10	2530	0.7	<0.002	>10.0	36.1	0.1	29	32.7	1.2	<0.05
0968989		0.43	<0.01	0.1	1.3	<10	2220	0.2	<0.002	>10.0	31.2	<0.1	35	19.6	<0.2	<0.05
0968990		0.82	0.02	0.3	5.4	30	642	1.7	<0.002	>10.0	40.2	0.4	53	23.5	4.9	<0.05
0968991		0.48	0.01	0.4	4.7	10	282	0.6	<0.002	>10.0	26.3	0.2	32	14.4	1.0	<0.05
0968992		0.46	0.01	1.2	8.1	70	203	0.2	<0.002	>10.0	19.70	1.5	73	16.0	0.3	0.09
0968993		1.73	0.01	1.7	9.9	30	123.5	0.1	<0.002	>10.0	20.4	2.8	42	20.7	0.3	0.13
0968994		1.88	0.01	0.9	5.2	80	253	0.5	<0.002	>10.0	16.90	1.2	85	7.8	1.3	0.07
0968995		2.44	0.02	0.3	0.8	30	770	1.5	<0.002	>10.0	16.40	0.2	78	5.5	5.1	<0.05
0968996		3.08	0.02	0.3	0.8	10	750	1.3	<0.002	>10.0	16.30	0.2	128	9.6	3.7	<0.05
0968997		0.47	0.02	0.3	2.3	10	358	1.1	<0.002	>10.0	20.2	0.2	111	16.1	3.7	<0.05
0968998		0.41	0.03	0.3	1.8	40	268	1.9	<0.002	>10.0	12.90	0.2	102	17.7	7.4	<0.05
0968999		0.62	0.01	0.4	1.4	20	262	0.1	<0.002	>10.0	6.20	<0.1	346	3.6	2.1	<0.05
0969000		24.0	3.01	3.2	22.1	370	8.7	22.6	0.005	0.55	0.30	5.8	2	0.7	413	0.20
0969401		0.26	0.01	0.2	2.2	220	599	1.0	<0.002	>10.0	7.49	0.3	160	21.1	31.8	<0.05
0969402		0.25	0.01	0.2	3.0	130	317	0.3	<0.002	>10.0	8.82	0.2	254	30.6	20.7	<0.05
0969403		0.49	0.02	0.7	7.3	50	311	3.0	<0.002	>10.0	16.25	1.2	152	8.1	18.4	<0.05
0969404		0.49	0.03	0.5	6.7	230	622	3.4	<0.002	>10.0	7.76	1.2	204	8.3	16.7	<0.05
0969405		0.53	<0.01	4.1	9.0	320	16.7	0.4	<0.002	8.22	2.59	7.5	3	3.8	2.4	0.32
0969406		0.20	<0.01	1.5	4.6	290	90.9	0.5	<0.002	>10.0	2.17	2.7	21	2.9	32.2	0.10
0969407		0.43	<0.01	0.9	3.8	40	209	0.7	0.002	>10.0	3.58	1.9	102	3.7	11.3	0.06
0969408		0.71	<0.01	0.5	3.6	50	328	0.7	<0.002	>10.0	1.57	0.9	247	13.5	11.3	<0.05
0969409		1.15	<0.01	2.4	5.0	110	208	0.4	<0.002	>10.0	1.91	7.1	377	15.9	1.2	0.20
0969410		5.26	<0.01	2.6	8.4	90	70.6	0.3	<0.002	>10.0	0.89	11.8	101	15.3	1.1	0.23
0969411		0.88	0.01	5.3	7.2	80	92.0	0.2	<0.002	>10.0	1.17	7.6	93	18.3	1.3	0.35
0969412		0.71	<0.01	1.1	4.3	50	111.0	0.3	<0.002	>10.0	1.51	2.9	103	6.6	14.7	0.08
0969413		1.89	0.01	0.2	2.6	50	89.0	0.8	<0.002	>10.0	1.13	0.3	138	3.0	17.4	<0.05
0969414		3.86	0.02	0.3	2.1	70	35.5	2.0	<0.002	>10.0	1.64	0.4	60	2.0	31.7	<0.05
0969415		22.6	0.01	0.3	3.2	70	48.3	0.5	0.011	>10.0	3.82	0.4	127	4.8	20.7	<0.05
0969416		5.94	<0.01	9.0	7.4	370	46.8	0.2	0.002	>10.0	5.95	5.8	58	9.4	2.3	0.84
0969417		8.01	<0.01	17.8	4.5	90	16.7	0.2	<0.002	8.39	1.05	4.3	15	7.3	1.7	1.31
0969418		0.98	1.79	2.8	75.0	400	3.1	33.2	<0.002	0.98	0.28	17.9	3	1.9	91.0	0.23
0969419		0.61	1.83	3.8	59.7	440	2.2	25.0	<0.002	0.81	0.32	18.5	3	3.0	121.0	0.30
0969420		2.43	0.01	17.7	4.5	110	15.5	0.5	<0.002	9.08	1.06	4.0	32	19.5	15.1	1.29
0969421		2.30	<0.01	19.9	4.0	130	41.4	0.3	<0.002	3.65	0.42	3.6	13	26.3	10.4	1.53
0969422		3.08	1.21	20.5	8.2	780	3.1	3.1	0.002	0.47	0.28	24.1	5	9.9	45.5	1.43

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
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MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 13-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10154544

Description échantillon	Méthode élément unités L.D.	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
0968983		0.07	1.3	0.881	0.49	0.4	256	0.9	43.1	533	142.0		
0968984		64.9	<0.2	0.009	3.33	0.1	3	0.9	1.5	>10000	2.2		7.67
0968985		19.60	<0.2	0.031	4.73	0.1	8	1.5	1.2	>10000	4.3		14.65
0968986		3.32	<0.2	0.005	2.19	<0.1	1	0.8	0.5	>10000	1.1		12.05
0968987		9.42	<0.2	<0.005	8.94	<0.1	1	0.8	1.0	>10000	1.0		7.09
0968988		7.84	<0.2	<0.005	4.31	<0.1	<1	0.9	0.6	>10000	1.1		13.00
0968989		9.61	<0.2	<0.005	2.37	<0.1	<1	0.3	0.4	>10000	<0.5		6.94
0968990		27.7	<0.2	0.008	3.26	0.1	4	0.4	1.6	>10000	3.4		5.56
0968991		29.5	<0.2	0.014	7.77	<0.1	2	0.5	0.5	>10000	5.1		5.76
0968992		17.75	0.5	0.083	3.75	0.1	15	1.1	2.5	>10000	31.2		6.64
0968993		20.2	0.6	0.120	1.42	0.2	30	0.9	3.4	>10000	46.8		5.08
0968994		238	0.4	0.056	0.87	0.3	11	1.2	2.4	>10000	23.1		1.270
0968995		>500	<0.2	0.005	0.52	0.1	<1	0.3	0.6	3800	2.1	1.670	
0968996		>500	<0.2	<0.005	0.40	<0.1	<1	0.1	0.3	2050	0.7	1.575	
0968997		327	<0.2	0.005	0.64	<0.1	1	0.4	0.9	3680	2.2		
0968998		218	<0.2	<0.005	1.72	<0.1	1	0.2	2.2	>10000	1.0		1.680
0968999		283	<0.2	<0.005	0.11	0.1	1	0.2	2.1	>10000	5.5	1.005	10.30
0969000		2.26	1.3	0.238	0.10	0.3	57	0.1	6.2	273	36.1		
0969401		339	<0.2	<0.005	0.22	0.1	2	0.1	9.6	9550	1.1		1.045
0969402		169.0	<0.2	<0.005	0.31	0.1	2	0.1	5.8	>10000	0.8	1.365	1.705
0969403		183.0	0.3	0.029	0.67	0.1	9	0.3	5.0	>10000	14.1		1.865
0969404		401	0.2	0.017	0.42	0.1	5	0.3	4.6	>10000	7.9	1.155	2.94
0969405		2.26	1.7	0.292	0.23	0.4	38	0.8	10.1	1800	123.5		
0969406		54.2	0.6	0.113	0.19	0.1	13	0.3	5.7	9730	40.6		1.105
0969407		190.5	0.3	0.061	0.32	0.1	12	0.3	2.4	>10000	21.1		2.78
0969408		271	0.2	0.017	0.19	0.1	6	0.2	2.7	>10000	6.6		1.310
0969409		170.0	1.2	0.180	0.11	0.3	38	0.5	7.5	4390	97.1		
0969410		51.7	2.3	0.223	0.05	0.6	75	0.4	15.2	4040	188.5		
0969411		58.5	1.9	0.379	0.04	0.7	78	0.8	12.5	634	172.0		
0969412		113.0	0.4	0.074	0.19	0.1	18	0.3	4.3	1360	34.6		
0969413		118.5	<0.2	0.009	0.15	0.1	2	0.2	7.5	6000	4.2		
0969414		62.6	<0.2	0.008	0.27	0.1	2	0.1	4.2	2330	3.6		
0969415		142.0	<0.2	0.008	0.23	0.4	4	0.1	5.3	404	3.4		
0969416		363	2.6	0.206	0.05	1.3	35	1.6	31.6	390	250		
0969417		30.8	3.3	0.215	0.02	1.8	17	0.9	37.3	514	372		
0969418		9.33	0.9	0.314	0.71	0.2	138	0.4	7.8	180	88.9		
0969419		6.91	1.3	0.402	0.42	0.4	138	0.6	9.8	210	106.0		
0969420		57.2	2.9	0.210	0.02	1.4	16	0.6	31.5	2130	316		
0969421		37.8	2.9	0.233	<0.02	1.5	17	0.6	39.5	511	333		
0969422		2.70	4.0	0.505	0.04	1.0	93	0.7	43.3	234	269		

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À: XSTRATA ZINC CANADA EXPLORATION
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MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 13-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10154544

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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MATAGAMI QC J0Y 2A0

Finalisée date: 10-NOV-2010
Compte: NORMAT

CERTIFICAT VO10156822

Projet: 642

Bon de commande #:

Ce rapport s'applique aux 33 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 25-OCT-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
Ag-OG62	Teneur marchande Ag - quatre acides	VARIABLE
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Ag-AA46	Teneur marchande Ag - Aqua regia/AA	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

A: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION – MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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À: XSTRATA ZINC CANADA EXPLORATION
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Projet: 642

Finalisée date: 10-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10156822

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Ag-AA46 Ag g/tonne 1	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01
0969423		2.20	0.007	0.2		0.010	0.008	0.040	2.65	0.63	7.21	20.0	150	0.69	0.07	2.76
0969424		4.03	0.142	>100	188	1.465	0.089	1.130	4.08	>100	0.32	459	60	0.55	0.89	2.21
0969425		3.83	0.078	44.3		1.340	0.059	3.18	4.41	54.1	0.06	610	<10	0.09	1.03	1.59
0969426		4.62	0.093	28.8		0.795	0.033	1.430	4.55	33.9	0.04	618	<10	<0.05	0.28	0.79
0969427		2.85	0.052	5.9		0.222	0.029	3.73	4.65	7.13	0.02	603	<10	<0.05	0.12	0.15
0969428		5.19	0.052	6.5		0.609	0.036	2.49	4.67	7.82	0.05	532	<10	<0.05	0.04	0.70
0969429		4.26	0.037	6.7		0.522	0.037	6.83	4.42	7.59	0.06	637	<10	0.08	0.49	0.96
0969430		4.90	0.029	5.4		0.238	0.027	11.00	4.69	5.93	0.10	674	<10	0.05	0.32	0.61
0969431		0.12		9.8		1.015	0.030	9.52		10.35	0.12	100.0	<10	0.10	0.36	0.10
0969432		0.59	0.007	<0.2		0.008	0.001	0.138	2.78	0.08	7.68	2.5	320	0.95	0.08	3.09
0969433		3.75	0.033	14.0		0.076	0.029	7.62	4.86	14.70	0.07	679	<10	<0.05	0.54	0.26
0969434		3.82	0.022	8.1		0.058	0.021	7.34	4.50	9.29	0.28	870	<10	0.05	1.03	0.86
0969435		3.98	0.060	17.3		0.109	0.026	0.237	4.70	19.65	0.35	854	<10	<0.05	0.64	1.39
0969436		3.78	0.053	24.7		0.212	0.053	0.415	2.29	27.1	0.13	598	<10	<0.05	1.73	2.19
0969437		4.36	0.089	24.1		0.592	0.057	8.15	4.61	26.2	0.04	838	<10	<0.05	1.52	0.70
0969438		4.53	0.437	20.8		0.653	0.027	7.68	4.66	23.2	0.03	779	<10	<0.05	0.90	0.35
0969439		4.79	0.166	28.6		0.281	0.024	11.45	4.46	28.8	0.86	377	<10	<0.05	0.36	0.34
0969440		3.60	0.432	62.6		0.994	0.016	3.79	4.71	70.7	0.05	361	10	<0.05	1.56	0.19
0969441		4.35	0.280	50.0		0.828	0.015	0.524	4.83	64.8	0.02	361	<10	<0.05	1.26	0.37
0969442		3.85	0.056	63.7		0.537	0.014	2.49	4.77	72.2	0.02	368	<10	<0.05	0.81	0.35
0969443		5.20	0.548	77.1		1.100	0.014	2.23	4.76	95.3	0.02	390	<10	<0.05	2.74	0.27
0969444		3.33	0.076	11.5		0.841	0.008	3.69	4.65	13.00	0.03	218	<10	<0.05	6.76	0.30
0969445		3.88	0.115	17.4		0.834	0.010	2.45	4.68	18.95	0.04	213	<10	<0.05	0.86	0.28
0969446		2.43	0.116	11.2		0.603	0.012	3.19	4.66	11.95	0.03	209	<10	0.14	7.09	0.40
0969447		4.18	0.054	9.5		1.075	0.019	1.860	4.48	9.84	0.10	227	<10	0.12	1.29	1.19
0969448		4.51	0.053	9.4		0.568	0.012	0.673	4.22	9.91	0.21	110.0	<10	0.10	0.47	4.88
0969449		2.43	0.132	12.8		0.705	0.019	1.360	3.89	13.80	4.06	153.5	<10	0.20	2.71	0.57
0969450		5.57	0.162	13.7		0.426	0.014	5.67	4.61	14.20	0.17	249	<10	<0.05	0.95	0.54
0969451		1.55	0.035	2.0		0.107	0.013	0.701	3.34	2.22	6.18	68.5	<10	0.34	0.59	0.03
0969452		2.87	0.034	2.1		0.101	0.007	0.981	3.74	2.24	3.48	103.5	20	0.18	0.57	0.83
0969453		3.79	0.169	24.9		1.555	0.019	0.554	4.37	24.2	1.33	142.0	<10	0.29	135.5	0.46
0969454		3.44	0.078	10.0		0.177	0.054	1.935	3.76	8.90	2.19	88.7	70	0.43	6.31	2.55
0969455		2.76	0.006	<0.2		0.019	0.002	0.054	2.64	0.11	6.29	24.6	10	0.67	0.19	2.25

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 10-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10156822

Description échantillon	Méthode élément unités L.D.	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01
0969423		0.17	31.6	33.8	27	0.33	37.8	10.85	20.1	0.17	4.9	0.328	0.67	12.6	10.5	3.62
0969424		24.3	10.30	962	<1	0.48	>10000	44.1	31.3	1.44	0.2	27.3	0.07	5.8	0.4	1.10
0969425		66.6	6.01	1025	<1	0.30	>10000	43.1	37.5	1.13	<0.1	37.4	0.04	3.2	0.2	0.49
0969426		28.4	1.16	1060	<1	0.15	9380	44.4	18.50	0.74	<0.1	29.8	0.02	0.6	0.2	0.23
0969427		83.0	0.23	677	<1	0.15	2630	41.8	27.7	0.68	<0.1	48.8	0.01	<0.5	<0.2	0.15
0969428		61.4	1.27	708	<1	0.28	7110	42.7	38.4	0.91	<0.1	35.4	0.03	0.7	<0.2	0.23
0969429		166.5	1.68	540	<1	0.33	6250	41.4	57.9	0.73	<0.1	47.2	0.03	0.9	<0.2	0.28
0969430		273	0.89	199.5	<1	0.46	2700	36.2	55.6	0.56	<0.1	58.7	0.03	<0.5	<0.2	0.20
0969431		203	8.42	115.0	45	<0.05	>10000	40.5	44.3	1.65	0.2	17.55	<0.01	3.6	<0.2	1.06
0969432		1.28	18.05	12.1	17	0.47	42.5	2.46	22.8	0.14	1.0	0.375	0.65	7.7	8.8	0.88
0969433		216	0.19	73.4	<1	0.25	808	36.5	32.1	0.71	<0.1	90.6	0.01	<0.5	<0.2	0.07
0969434		163.0	0.89	24.6	<1	0.58	663	38.2	46.1	0.66	0.1	82.2	0.03	<0.5	<0.2	0.18
0969435		4.46	1.63	21.2	1	0.53	1310	43.1	46.1	1.03	0.2	2.29	0.03	0.8	<0.2	0.17
0969436		7.40	3.29	69.3	2	0.26	2480	41.5	25.6	1.43	0.1	4.62	0.02	1.6	<0.2	0.27
0969437		189.5	2.81	366	<1	0.18	7160	37.9	22.2	2.11	<0.1	43.6	0.01	1.4	0.2	0.15
0969438		158.5	0.89	201	<1	0.16	>10000	39.9	15.40	1.59	<0.1	26.7	0.01	0.5	<0.2	0.08
0969439		317	9.93	318	2	0.10	3180	34.4	131.5	0.65	0.5	116.5	0.01	5.5	<0.2	0.49
0969440		93.3	2.55	603	<1	<0.05	>10000	40.6	20.6	0.92	<0.1	56.0	<0.01	1.4	<0.2	0.07
0969441		11.30	3.26	606	1	<0.05	9410	45.2	5.47	0.96	<0.1	23.4	<0.01	1.6	0.2	0.03
0969442		57.0	1.48	451	<1	<0.05	6030	43.0	13.65	0.78	<0.1	57.0	<0.01	0.7	<0.2	0.12
0969443		51.1	1.94	554	<1	0.06	>10000	48.1	22.7	0.91	<0.1	37.9	0.01	0.9	<0.2	0.19
0969444		89.5	11.80	776	<1	0.13	9740	44.6	23.3	1.06	<0.1	14.60	0.02	5.5	<0.2	0.33
0969445		55.6	1.71	814	<1	0.15	9750	47.7	19.30	0.92	<0.1	6.94	0.02	0.9	<0.2	0.44
0969446		77.6	2.09	555	<1	0.11	7670	49.1	24.5	0.81	<0.1	13.20	0.02	1.1	<0.2	0.88
0969447		41.4	2.44	313	<1	0.30	>10000	44.5	24.6	0.76	<0.1	19.40	0.03	1.2	<0.2	0.54
0969448		13.70	6.24	98.1	<1	0.09	6760	41.6	6.17	0.89	0.1	7.94	0.01	3.4	<0.2	1.62
0969449		28.7	19.50	123.5	11	0.07	6010	36.5	79.5	0.82	2.4	11.10	<0.01	9.2	0.2	3.15
0969450		136.5	3.91	45.3	<1	0.09	4790	38.3	20.9	2.19	0.1	28.0	0.01	2.0	0.2	0.18
0969451		15.80	45.6	51.9	5	0.22	1210	26.3	24.5	1.19	5.2	3.62	0.01	21.2	3.8	8.10
0969452		23.0	16.50	19.8	2	2.50	1090	32.2	16.25	1.21	2.2	7.02	0.22	8.9	0.5	3.18
0969453		14.45	95.3	292	<1	0.62	>10000	42.5	11.15	2.04	0.8	27.0	0.05	39.3	0.2	1.32
0969454		45.9	15.50	17.6	2	1.05	1855	33.3	7.39	1.50	1.4	7.56	0.09	7.5	0.6	2.63
0969455		0.79	33.0	38.8	34	0.15	170.5	11.20	22.0	0.19	4.3	0.329	0.04	12.7	20.6	3.99

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION – MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 10-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10156822

Description échantillon	Méthode élément unités L.D.	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2
0969423		2080	0.65	0.24	10.9	26.7	820	48.7	22.1	0.002	0.14	0.87	33.7	2	9.6	23.1
0969424		1400	1.12	0.02	0.7	5.7	80	1010	2.2	0.002	>10.0	16.20	1.7	272	10.5	10.1
0969425		1080	0.70	0.01	0.6	3.4	20	658	1.3	<0.002	>10.0	22.6	0.3	159	17.3	7.3
0969426		528	0.26	0.01	0.5	1.7	<10	335	0.5	<0.002	>10.0	23.4	0.2	51	13.5	3.7
0969427		284	0.18	0.01	0.5	1.2	<10	309	0.5	<0.002	>10.0	23.7	0.1	34	20.8	1.2
0969428		564	0.28	0.01	0.6	1.3	<10	357	1.0	<0.002	>10.0	20.3	0.1	52	20.2	5.3
0969429		709	1.00	0.02	0.5	2.8	<10	384	1.0	0.002	>10.0	21.4	0.2	15	17.6	7.5
0969430		670	0.33	0.02	0.5	2.8	10	285	1.4	<0.002	>10.0	17.90	0.3	20	22.2	5.9
0969431		168	0.67	0.02	0.7	2.1	10	291	0.1	<0.002	>10.0	4.15	0.2	355	2.7	3.0
0969432		357	0.12	3.27	3.2	17.6	410	5.7	18.3	<0.002	0.19	0.19	5.3	2	0.6	416
0969433		532	0.56	0.02	0.5	3.8	<10	292	0.4	0.002	>10.0	21.1	0.2	71	21.9	2.2
0969434		681	0.58	0.02	0.7	8.7	<10	188.5	1.3	0.002	>10.0	23.8	0.5	36	18.2	5.2
0969435		463	0.41	0.01	0.9	5.6	30	259	1.2	0.002	>10.0	22.3	0.8	130	5.4	7.9
0969436		725	0.50	0.01	0.6	3.3	20	562	0.8	0.002	>10.0	14.70	0.4	257	10.4	15.1
0969437		372	0.53	0.01	0.5	1.2	<10	653	0.4	0.002	>10.0	13.50	0.2	473	12.3	3.7
0969438		451	0.48	0.01	0.5	1.1	<10	285	0.3	0.002	>10.0	12.80	0.2	324	6.5	2.4
0969439		424	0.62	0.01	1.1	2.2	10	242	0.4	<0.002	>10.0	9.22	1.3	120	12.2	2.6
0969440		248	1.36	0.01	0.5	0.7	<10	155.0	0.1	<0.002	>10.0	8.00	0.1	140	9.2	1.2
0969441		160	1.71	0.01	0.6	0.4	<10	124.0	0.1	<0.002	>10.0	8.90	0.1	124	8.0	2.4
0969442		291	0.67	0.01	0.5	0.4	<10	127.0	0.1	<0.002	>10.0	7.28	0.1	76	10.8	2.2
0969443		248	0.96	0.01	0.6	0.6	<10	118.5	0.2	<0.002	>10.0	5.21	<0.1	92	8.0	2.4
0969444		241	0.82	0.01	0.6	1.0	<10	89.3	0.5	<0.002	>10.0	6.08	0.1	156	6.8	3.3
0969445		273	1.09	0.01	0.6	0.6	<10	73.6	0.5	<0.002	>10.0	5.05	0.1	111	6.1	3.2
0969446		341	1.07	0.01	0.6	0.6	20	93.0	0.4	<0.002	>10.0	4.05	0.1	58	4.9	4.6
0969447		953	1.03	0.01	0.6	1.0	10	171.0	1.0	<0.002	>10.0	4.25	0.1	80	7.5	10.3
0969448		7350	1.10	0.01	0.7	3.0	30	85.5	0.3	<0.002	>10.0	1.05	0.6	127	4.2	26.4
0969449		1150	5.20	0.01	4.1	9.2	90	167.0	0.2	0.004	>10.0	2.83	10.2	129	6.4	5.6
0969450		356	0.89	0.01	0.6	2.7	10	115.0	0.4	<0.002	>10.0	3.16	0.4	404	12.9	4.0
0969451		2160	2.28	0.01	6.2	10.2	90	106.5	0.4	<0.002	>10.0	0.85	9.4	199	8.4	1.9
0969452		1570	0.64	0.06	3.9	5.7	160	36.2	9.0	<0.002	>10.0	0.92	5.3	221	9.2	29.1
0969453		1180	8.06	0.02	1.7	5.9	110	145.5	2.2	0.002	>10.0	26.2	2.3	330	7.6	12.7
0969454		2130	0.53	0.03	2.4	5.1	150	517	3.7	<0.002	>10.0	2.58	3.7	309	7.9	33.3
0969455		1620	0.78	0.58	7.2	24.4	630	3.0	1.5	<0.002	0.22	0.27	37.0	4	3.7	42.7

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À: XSTRATA ZINC CANADA EXPLORATION
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MATAGAMI QC J0Y 2A0

Projet: 642

Finalisée date: 10-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10156822

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag OG62 Ag ppm 1	Cu OG62 Cu % 0.001	Zn OG62 Zn % 0.001
0969423		0.79	0.35	1.9	0.782	0.43	0.5	218	0.9	54.5	359	151.0			
0969424		<0.05	133.5	<0.2	0.029	1.53	0.2	13	0.6	11.7	>10000	5.8	200	1.555	1.200
0969425		<0.05	172.5	<0.2	0.006	1.28	0.1	2	0.6	3.8	>10000	1.7		1.385	3.31
0969426		<0.05	31.5	<0.2	<0.005	3.84	<0.1	<1	1.9	1.3	>10000	0.7			1.460
0969427		<0.05	2.18	<0.2	<0.005	2.44	<0.1	<1	1.9	0.5	>10000	<0.5			4.01
0969428		<0.05	0.81	<0.2	<0.005	2.41	<0.1	<1	1.4	1.2	>10000	<0.5			2.70
0969429		<0.05	0.85	<0.2	<0.005	5.88	<0.1	<1	2.3	1.8	>10000	1.5			7.52
0969430		<0.05	2.65	<0.2	0.005	3.69	<0.1	1	0.5	1.6	>10000	2.2			12.10
0969431		<0.05	192.0	<0.2	<0.005	0.10	0.1	1	0.2	2.6	>10000	5.8		0.990	10.25
0969432		0.22	0.18	1.0	0.233	0.10	0.3	49	0.1	6.0	605	28.2			
0969433		<0.05	23.4	<0.2	0.005	2.62	<0.1	1	0.5	0.5	>10000	2.0			10.45
0969434		<0.05	17.15	<0.2	0.014	2.82	0.1	3	0.7	1.3	>10000	5.8			7.66
0969435		<0.05	80.4	<0.2	0.017	1.33	0.1	5	0.2	2.3	2600	7.0			
0969436		<0.05	288	<0.2	0.005	0.47	0.1	4	0.2	3.4	4570	2.7			
0969437		<0.05	180.0	<0.2	<0.005	0.70	0.1	1	0.1	1.2	>10000	1.3			9.20
0969438		<0.05	85.3	<0.2	<0.005	1.34	0.1	1	0.2	0.7	>10000	0.6		0.889	8.26
0969439		0.05	128.5	0.3	0.050	0.64	0.2	7	0.4	1.9	>10000	19.4			12.30
0969440		<0.05	133.0	<0.2	<0.005	0.41	0.1	<1	0.1	0.4	>10000	1.3		1.035	4.25
0969441		<0.05	95.2	<0.2	<0.005	0.48	0.1	<1	0.1	0.3	5770	<0.5			
0969442		<0.05	114.0	<0.2	<0.005	1.12	0.1	<1	0.1	0.3	>10000	<0.5			2.64
0969443		<0.05	138.0	<0.2	<0.005	0.33	<0.1	<1	0.1	0.7	>10000	<0.5		1.090	2.30
0969444		<0.05	43.2	<0.2	<0.005	0.23	<0.1	<1	0.1	1.4	>10000	<0.5			4.22
0969445		<0.05	66.2	<0.2	<0.005	0.18	<0.1	<1	0.1	0.6	>10000	<0.5			2.58
0969446		<0.05	74.3	<0.2	<0.005	0.23	0.1	<1	0.1	0.9	>10000	<0.5			3.40
0969447		<0.05	108.5	<0.2	0.005	0.28	0.1	1	0.1	1.2	>10000	1.6		1.100	1.950
0969448		<0.05	75.6	<0.2	0.014	0.26	0.1	3	0.1	4.2	7320	4.6			
0969449		0.28	150.0	1.4	0.263	0.59	0.5	64	0.6	16.0	>10000	92.7			1.420
0969450		<0.05	146.5	<0.2	0.008	0.32	<0.1	1	0.1	1.6	>10000	3.5			6.12
0969451		0.44	68.8	2.1	0.386	0.05	0.6	70	0.7	13.6	7760	191.5			
0969452		0.21	36.9	1.3	0.193	0.06	0.4	30	0.5	6.3	8760	88.4			
0969453		0.08	403	0.5	0.067	0.21	0.4	11	0.2	12.0	6660	33.2		1.585	
0969454		0.14	421	0.8	0.128	0.16	0.2	21	0.2	8.9	>10000	58.6			1.995
0969455		0.61	6.06	1.5	0.600	0.04	0.4	233	0.8	26.6	507	127.5			

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
MATAGAMI
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Projet: 642

Page: Annexe 1
Total # les pages d'annexe: 1
Finalisée date: 10-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10156822

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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Finalisée date: 10-NOV-2010
Compte: NORMAT

CERTIFICAT VO10158414

Projet: 642

Bon de commande #:

Ce rapport s'applique aux 29 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-OCT-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
CRU-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
OA-GRA08	Densité relative - échantillon global	WST-SEQ
ME-MS61	ICP-MS 48 éléments, quatre acides	
ME-OG62	Teneur marchande éléments - quatre acides	ICP-AES
Cu-OG62	Teneur marchande Cu - quatre acides	VARIABLE
Au-AA23	Au 30 g fini FA-AA	AAS
Zn-OG62	Teneur marchande Zn - quatre acides	VARIABLE
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
500, BOUL. INDUSTRIEL C.P. 819
MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Projet: 642

Finalisée date: 10-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10158414

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001	OA-GRA08 S.G. Unity 0.01	ME-MS61 Au ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02
0969456		3.49	0.012	1.2	0.010	0.011	0.027	3.15	1.47	4.62	136.5	170	0.44	0.06	0.03	0.72
0969457		3.56	0.056	3.6	0.059	0.016	0.009	3.34	4.47	3.97	127.0	140	0.36	0.07	0.03	0.37
0969458		2.83	0.106	9.2	0.502	0.021	0.051	3.82	9.59	5.01	162.5	100	0.24	1.32	0.03	2.08
0969459		2.73	<0.005	<0.2	0.016	0.002	0.034	2.85	0.32	8.10	48.4	120	0.50	0.99	0.56	0.47
0969460		3.14	<0.005	0.3	0.004	0.003	0.031	2.87	0.67	7.90	65.8	<10	0.52	22.5	0.43	0.18
0969461		3.03	<0.005	0.7	0.011	0.003	0.026	2.80	1.20	6.96	33.1	10	0.54	107.0	2.87	0.10
0969462		2.74	<0.005	<0.2	0.011	0.002	0.027	2.85	0.21	7.45	34.1	140	0.74	0.68	3.33	0.06
0969463		3.17	<0.005	<0.2	0.010	0.003	0.048	2.88	0.31	7.34	50.6	140	0.64	0.29	3.32	0.49
0969464		4.33	0.028	1.5	0.022	0.011	0.614	3.93	2.00	4.25	425	<10	0.09	0.89	0.35	11.65
0969465		4.46	0.021	0.9	0.049	0.010	0.052	4.06	1.23	1.58	474	10	0.11	0.10	3.24	0.85
0969466		4.68	0.012	0.6	0.063	0.008	0.038	4.00	0.97	0.66	312	30	0.27	0.52	3.41	0.27
0969467		4.58	0.033	1.2	0.029	0.006	0.795	4.13	1.70	3.61	524	10	0.06	0.15	0.35	17.55
0969468		4.76	0.047	2.8	0.040	0.016	1.925	3.91	3.38	3.27	392	10	0.09	0.04	0.44	42.1
0969469		5.34	0.055	4.8	0.188	0.048	1.470	4.01	5.38	3.34	185.0	10	0.07	0.09	0.44	33.3
0969470		4.89	0.097	7.4	0.742	0.046	2.19	4.46	8.32	1.95	181.5	10	<0.05	3.14	0.65	55.6
0969471		0.73	0.049	<0.2	0.036	0.002	0.094	2.82	0.25	6.57	61.0	<10	0.76	0.15	5.28	1.28
0969472		4.14	0.135	20.6	1.730	0.047	0.137	4.64	22.8	1.11	279	10	<0.05	19.00	0.05	3.50
0969473		5.39	0.145	19.5	1.260	0.032	0.133	4.65	20.2	0.76	215	<10	<0.05	14.75	0.03	3.68
0969474		5.72	0.128	12.1	3.08	0.013	0.154	4.59	13.70	0.58	229	10	<0.05	6.08	0.64	4.91
0969475		5.65	0.109	8.3	1.120	0.009	0.246	4.71	9.73	0.11	193.5	10	0.06	5.47	0.39	7.79
0969476		5.50	0.133	9.8	1.235	0.006	0.068	4.74	10.85	0.07	185.0	<10	0.10	5.41	0.02	2.19
0969477		5.53	0.092	0.7	0.806	0.005	0.048	4.52	11.10	1.03	181.5	<10	0.10	3.66	0.21	1.43
0969478		4.50	0.066	5.2	0.792	0.007	0.037	3.93	6.69	4.33	92.6	10	0.22	2.08	0.99	0.74
0969479		4.66	0.042	2.7	0.239	0.005	0.032	3.68	3.38	5.76	90.5	<10	0.26	1.51	0.20	0.54
0969480		3.56	0.047	1.9	0.030	0.004	0.024	3.32	2.47	7.05	126.0	<10	0.32	2.19	0.07	0.26
0969481		1.89	0.046	2.1	0.768	0.005	0.041	3.44	2.65	6.50	173.0	<10	0.21	5.79	0.04	0.88
0969482		1.74	<0.005	<0.2	0.068	0.001	0.027	2.88	0.22	7.44	53.2	180	0.45	1.00	1.34	0.09
0969483		0.12		10.0	0.966	0.031	10.40		11.00	0.14	66.8	10	0.10	0.34	0.10	208
0969484		0.50	<0.005	<0.2	0.012	<0.001	0.017	2.77	0.10	8.25	3.5	330	0.84	0.08	3.04	0.25

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Finalisée date: 10-NOV-2010
Compte: NORMAT

Projet: 642

CERTIFICAT D'ANALYSE VO10158414

Description échantillon	Méthode élément unités L.D.	ME-MS61 Ce ppm 0.01	ME-MS61 Cu ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5
0969456		55.1	13.8	10	0.50	66.4	9.92	12.85	0.28	6.6	0.348	2.24	24.5	2.3	0.24	48
0969457		46.5	59.1	11	0.42	588	16.50	11.90	0.62	5.7	0.390	1.89	20.6	2.3	0.27	61
0969458		39.1	184.0	5	0.22	5150	30.0	19.85	1.37	7.1	1.625	0.74	18.0	15.8	2.61	412
0969459		44.8	55.3	52	0.31	137.5	11.60	26.7	0.28	6.8	0.292	0.89	20.3	26.3	5.30	687
0969460		116.0	63.9	9	0.24	31.1	13.75	43.4	0.38	12.1	0.167	0.01	54.4	20.1	7.06	883
0969461		70.0	47.1	22	0.17	122.5	11.95	36.2	0.29	9.3	0.101	0.04	32.8	21.5	6.31	1060
0969462		35.1	48.5	48	0.36	112.5	9.37	22.6	0.17	5.5	0.166	1.12	15.7	29.1	4.69	1160
0969463		20.9	43.6	59	0.41	91.5	10.35	21.3	0.17	3.0	0.167	1.06	9.7	21.5	4.32	1850
0969464		5.24	13.4	33	0.08	244	35.9	40.7	0.50	2.2	0.602	0.01	2.5	2.1	2.35	1600
0969465		2.78	6.1	7	0.43	517	39.5	11.55	0.61	1.0	0.367	0.06	1.6	0.3	1.10	2590
0969466		5.34	14.4	6	1.16	713	41.6	9.51	0.67	0.3	0.506	0.22	3.2	0.5	1.13	4780
0969467		12.85	9.6	26	0.10	329	36.1	27.5	1.61	1.8	4.06	0.01	6.1	0.4	2.32	1400
0969468		8.53	8.9	24	0.05	459	35.3	40.0	1.37	1.8	7.28	0.01	4.1	1.0	2.39	1370
0969469		12.55	21.8	6	0.06	2180	38.3	24.6	1.89	1.6	12.70	0.01	6.1	3.1	2.36	1310
0969470		7.63	224	10	0.06	8560	41.9	12.95	1.97	0.5	26.0	0.01	3.6	0.8	0.85	396
0969471		150.0	48.4	541	0.07	423	9.95	23.8	0.31	5.2	0.880	<0.01	64.6	13.6	8.28	1640
0969472		8.85	526	9	<0.05	>10000	43.1	8.71	1.92	0.6	9.12	<0.01	4.5	0.3	0.84	359
0969473		10.60	566	2	<0.05	>10000	42.0	4.61	1.78	0.4	7.09	<0.01	6.4	<0.2	0.72	210
0969474		16.60	643	5	<0.05	>10000	42.2	3.64	2.05	0.4	9.06	<0.01	8.1	<0.2	0.82	827
0969475		6.82	505	3	0.05	>10000	48.2	1.57	1.57	0.1	4.19	0.01	3.0	<0.2	0.83	635
0969476		3.41	642	1	<0.05	>10000	47.2	1.90	1.77	<0.1	5.45	<0.01	1.6	<0.2	0.82	90
0969477		13.05	511	2	<0.05	9660	45.6	9.57	2.05	0.6	4.69	<0.01	7.4	<0.2	1.35	306
0969478		34.9	181.5	<1	0.25	6020	32.8	27.8	1.19	2.8	2.65	0.01	20.6	0.3	4.42	1300
0969479		37.9	180.5	2	0.27	2810	32.5	32.2	1.52	3.9	1.030	<0.01	20.7	0.4	5.61	768
0969480		39.5	315	6	0.42	1125	30.5	37.6	1.09	4.3	0.656	0.01	21.1	0.5	6.62	864
0969481		63.8	536	9	0.36	9290	30.2	39.6	1.47	4.1	2.00	0.01	28.5	0.5	6.03	999
0969482		25.5	70.5	71	0.54	766	11.95	23.1	0.27	3.2	0.345	1.12	12.4	14.5	5.53	1210
0969483		10.40	130.0	46	<0.05	>10000	42.6	43.1	1.73	0.2	22.3	<0.01	4.7	<0.2	1.13	187
0969484		18.60	15.1	23	0.48	97.7	2.74	23.0	0.08	1.1	0.075	0.97	8.4	9.4	1.08	374

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Projet: 642

Finalisée date: 10-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10158414

Description échantillon	Méthode élément unités L.D.	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	MF-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	MF-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	MF-MS61 Ta ppm 0.05
0969456		0.90	0.04	10.1	1.7	60	96.4	69.6	<0.002	>10.0	3.66	6.3	21	6.3	4.8	0.73
0969457		0.67	0.03	8.0	2.4	70	163.0	58.7	<0.002	>10.0	2.32	6.0	86	3.5	4.4	0.68
0969458		1.90	0.02	7.5	5.1	80	191.5	23.7	<0.002	>10.0	3.16	9.1	206	4.1	2.7	0.59
0969459		3.77	0.11	9.4	34.1	630	12.0	30.1	0.002	1.84	0.55	36.2	4	3.6	9.6	0.60
0969460		13.25	0.01	17.1	6.6	130	10.8	0.5	0.003	0.39	0.31	14.6	2	2.6	8.8	1.20
0969461		6.76	0.05	8.1	14.0	240	18.4	0.9	<0.002	1.24	0.46	12.5	5	2.2	26.0	0.62
0969462		0.94	0.33	6.4	35.1	620	8.3	28.2	0.002	2.33	1.27	34.1	4	4.0	32.0	0.47
0969463		0.68	0.06	4.0	42.9	570	11.2	29.7	0.002	2.17	2.02	40.0	2	5.1	31.5	0.27
0969464		0.46	<0.01	2.9	21.8	30	61.3	0.2	<0.002	>10.0	13.60	7.2	16	5.2	2.5	0.19
0969465		0.31	0.01	1.6	10.1	40	71.5	1.8	<0.002	>10.0	12.45	2.9	7	2.4	17.8	0.09
0969466		0.52	0.03	1.0	10.3	60	46.6	5.4	0.002	>10.0	8.93	1.7	8	4.0	29.4	<0.05
0969467		0.38	<0.01	2.7	16.3	40	61.7	0.3	<0.002	>10.0	11.85	8.4	343	2.6	3.5	0.17
0969468		0.38	0.01	2.2	15.3	60	137.0	0.2	<0.002	>10.0	10.30	6.2	264	6.6	4.3	0.14
0969469		0.62	<0.01	2.0	5.7	20	449	0.2	<0.002	>10.0	3.86	5.3	458	14.5	2.7	0.11
0969470		0.96	<0.01	1.1	5.8	60	488	0.1	<0.002	>10.0	3.44	1.6	417	6.9	3.9	<0.05
0969471		3.37	0.01	8.0	232	4440	16.1	0.1	0.002	0.89	1.48	16.7	6	20.6	230	0.46
0969472		2.79	<0.01	1.3	5.2	40	476	0.1	<0.002	>10.0	4.25	1.4	415	3.6	0.9	0.08
0969473		2.13	<0.01	1.1	2.8	10	319	0.1	<0.002	>10.0	3.61	0.6	376	3.0	0.5	<0.05
0969474		1.75	<0.01	1.0	4.6	40	95.6	0.1	<0.002	>10.0	2.69	0.7	465	5.9	3.0	<0.05
0969475		2.49	<0.01	0.7	4.0	20	64.5	0.1	<0.002	>10.0	2.19	0.1	326	5.5	1.9	<0.05
0969476		2.34	<0.01	0.6	3.5	10	44.2	<0.1	<0.002	>10.0	2.54	0.1	374	4.0	0.4	<0.05
0969477		3.40	<0.01	1.3	2.2	20	29.4	0.1	<0.002	>10.0	2.34	1.1	456	3.8	1.6	0.06
0969478		4.41	0.01	3.7	4.4	40	41.8	0.3	<0.002	>10.0	1.89	4.9	224	8.9	5.4	0.27
0969479		2.72	0.01	4.3	4.7	50	22.6	0.2	<0.002	>10.0	1.62	7.9	195	8.4	1.8	0.32
0969480		4.39	0.01	5.7	6.9	70	12.4	0.2	<0.002	>10.0	1.36	10.7	106	8.4	1.5	0.40
0969481		7.64	0.01	5.0	11.0	60	16.9	0.3	<0.002	>10.0	1.27	9.5	260	7.0	1.6	0.37
0969482		1.58	0.07	4.1	91.6	770	1.9	26.7	<0.002	1.34	0.44	12.7	18	6.8	18.7	0.29
0969483		0.84	0.01	0.7	2.3	30	307	0.1	<0.002	>10.0	5.44	0.1	387	3.3	2.9	<0.05
0969484		0.13	3.70	3.0	19.1	440	4.6	18.6	<0.002	0.27	0.14	5.5	2	0.7	434	0.21

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
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Finalisée date: 10-NOV-2010
Compte: NORMAT

Projet: 642

CERTIFICAT D'ANALYSE VO10158414

Description échantillon	Méthode élément unités LnDL	MC-MS61 Fe ppm 0.05	ME-MS61 Th ppm 0.2	MF-MS61 Tl % 0.005	ME-MS61 U ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
0969456		52.8	3.5	0.143	1.41	1.0	8	0.2	34.2	228	233		
0969457		127.0	2.8	0.111	1.89	0.9	9	0.2	30.1	73	199.5		
0969458		147.0	3.8	0.105	2.97	1.0	23	0.8	33.7	462	251		
0969459		2.93	2.8	0.500	0.57	0.9	239	0.5	35.1	344	226		
0969460		16.15	5.8	0.222	0.03	1.9	38	0.6	50.4	300	436		
0969461		66.3	3.4	0.268	0.07	1.3	91	0.4	44.2	272	299		
0969462		1.10	2.1	0.399	0.61	0.8	222	0.3	47.0	265	184.0		
0969463		2.66	0.9	0.561	0.68	0.4	285	0.4	18.4	491	109.0		
0969464		3.06	1.2	0.223	0.67	0.6	63	0.2	7.8	6330	91.9		
0969465		2.05	0.6	0.078	0.68	0.4	21	0.1	6.8	493	40.4		
0969466		7.44	0.2	0.037	0.39	0.5	19	0.1	6.8	376	11.0		
0969467		15.35	1.0	0.184	0.50	0.5	48	0.1	7.3	8740	71.3		
0969468		76.4	1.0	0.153	0.55	0.5	44	0.2	7.1	>10000	72.1		1.945
0969469		287	0.9	0.132	0.08	0.4	26	0.3	7.9	>10000	67.9		1.495
0969470		333	0.4	0.052	0.14	0.4	15	0.1	2.4	>10000	21.4		2.15
0969471		277	7.1	0.587	<0.02	2.4	204	0.4	29.8	1010	238		
0969472		403	0.5	0.087	0.42	0.3	15	0.3	2.6	1920	24.5	1.715	
0969473		285	0.2	0.045	0.42	0.3	8	0.3	1.7	1290	16.8	1.365	
0969474		115.5	0.2	0.040	0.29	0.3	7	0.2	2.8	1510	13.8	3.05	
0969475		94.0	<0.2	0.009	0.23	0.2	2	0.1	1.7	2620	3.0	1.140	
0969476		98.9	<0.2	0.006	0.26	0.2	1	0.1	0.6	705	2.0	1.285	
0969477		94.5	0.4	0.061	0.17	0.3	9	0.3	2.7	475	23.9		
0969478		77.2	1.4	0.247	0.15	0.4	44	1.1	14.2	290	104.5		
0969479		53.7	2.0	0.274	0.06	0.7	38	1.2	13.3	342	159.5		
0969480		48.0	2.2	0.391	0.04	0.8	57	0.9	19.1	257	177.5		
0969481		32.4	2.0	0.367	0.04	0.8	58	1.1	13.3	435	187.5		
0969482		5.96	1.1	0.422	0.65	0.5	110	1.0	12.7	288	133.5		
0969483		214	<0.2	<0.005	0.11	0.3	2	0.2	2.4	>10000	5.8	0.990	10.30
0969484		0.78	1.1	0.259	0.09	0.5	68	0.1	6.2	178	27.7		

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

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À: XSTRATA ZINC CANADA EXPLORATION
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Projet: 642

Finalisée date: 10-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10158414

Méthode	COMMENTAIRE DE CERTIFICAT
ME-MS61	L'analyse des terres rares peut être partiellement soluble avec cette méthode.

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Finalisée date: 8-NOV-2010
Compte: NORMAT

CERTIFICAT VO10159650

Projet: 642

Bon de commande #:

Ce rapport s'applique aux 39 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 29-OCT-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um
LOG-24	Entrée pulpe - Reçu sans code barre
PUL-QC	Test concassage QC

PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
Zn-AA46	Teneur marchande Zn - Aqua regia/AA	AAS
Au-AA23	Au 30 g fini FA-AA	AAS
Ag-AA45	Trace Ag - Aqua regia/AAS	AAS
Cu-AA46	Teneur marchande Cu - Aqua regia/AA	AAS
Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
BUREAU D EXPLORATION - MINE MATAGAMI
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MATAGAMI QC J0Y 2A0

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Projet: 642

Finalisée date: 8-NOV-2010
Compte: NORMAT

CERTIFICAT D'ANALYSE VO10159650

Description échantillon	Méthode élément unités	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001
0968851		2.91	0.155	16.6	1.090	0.032	2.81
0968852		4.13	0.120	13.0	1.340	0.023	3.03
0968853		4.51	0.192	26.3	2.46	0.060	2.05
0968854		2.64	0.222	18.7	1.645	0.019	0.108
0968855		3.27	0.076	9.7	1.100	0.007	0.095
0968856		3.30	0.089	7.1	1.095	0.019	0.129
0968857		0.11		9.3	0.994	0.033	9.76
0968858		0.49	0.008	<0.2	0.012	<0.001	0.016
0968859		4.81	0.125	15.4	1.460	0.019	0.087
0968860		4.65	0.090	8.1	0.486	0.019	0.049
0968861		5.01	0.075	4.8	0.690	0.007	0.051
0968862		5.20	0.090	5.1	0.325	0.005	0.109
0968863		4.76	0.081	3.3	0.530	0.004	0.125
0968864		4.23	0.062	1.3	0.447	0.008	0.415
0968865		4.94	0.057	2.7	0.519	0.007	0.181
0968866		4.33	0.058	7.2	0.272	0.015	0.028
0968867		4.23	0.098	4.9	0.390	0.011	0.026
0968868		4.73	0.107	7.9	0.260	0.014	0.043
0968869		3.74	0.052	5.7	0.627	0.011	0.038
0968870		4.29	0.140	9.0	0.578	0.015	0.042
0968871		4.81	0.100	6.8	0.391	0.023	0.058
0968872		1.48	0.016	56.5	0.068	0.043	0.588
0968873		3.47	<0.005	3.4	0.033	0.003	0.053
0969485		2.48	<0.005	<0.2	0.004	0.003	0.051
0969486		3.78	0.125	32.7	1.225	0.024	2.02
0969487		4.05	0.083	40.5	1.905	0.020	0.199
0969488		2.51	0.090	14.2	0.193	0.019	12.30
0969489		4.39	0.091	6.0	0.105	0.031	6.39
0969490		6.01	0.097	6.7	0.267	0.048	1.460
0969491		5.35	0.164	6.2	0.466	0.062	3.12
0969492		3.80	0.124	9.8	0.396	0.051	19.35
0969493		2.70	0.115	11.7	0.346	0.027	13.90
0969494		4.23	0.101	20.8	1.480	0.064	6.39
0969495		4.14	0.083	20.9	0.906	0.047	12.75
0969496		2.69	0.119	24.4	0.805	0.056	12.85
0969497		2.08	0.105	26.3	0.648	0.042	8.60
0969498		2.45	<0.005	<0.2	0.007	0.003	0.124
0969499		2.39	0.007	1.5	0.760	0.004	1.100
0969500		4.24	0.238	35.3	2.46	0.147	1.770

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Finalisée date: 6-NOV-2010
Compte: NORMAT

CERTIFICAT VO10160857

Projet: 642

Bon de commande #:

Ce rapport s'applique aux 29 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 1-NOV-2010.

Les résultats sont transmis à:

MICHEL DESSUREAULT	GILLES ROY	

PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-32	Granulation 90 % <2 mm
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PROCÉDURES ANALYTIQUES

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Pb-AA46	Teneur marchande Pb - Aqua regia/AA	AAS

À: XSTRATA ZINC CANADA EXPLORATION MATAGAMI
ATTN: MICHEL DESSUREAULT
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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Finalisée date: 6-NOV-2010
Compte: NORMAT

Projet: 642

CERTIFICAT D'ANALYSE VO10160857

Description échantillon	Méthode élément unités L.D.	WEI-21 Poids reçu kg 0.02	Au-AA23 Au g/tonne 0.005	Ag-AA45 Ag g/tonne 0.2	Cu-AA46 Cu % 0.001	Pb-AA46 Pb % 0.001	Zn-AA46 Zn % 0.001
968874		2.35	0.018	<0.2	0.002	0.006	0.085
968875		2.99	0.097	74.1	0.045	0.282	3.22
968876		2.60	0.030	14.5	0.058	0.107	4.47
968877		4.16	0.044	7.8	0.619	0.133	3.47
968878		4.68	0.055	7.0	0.641	0.087	4.66
968879		2.28	0.053	19.1	0.436	0.104	13.40
968880		4.12	0.103	48.4	0.734	0.083	1.495
968881		3.09	0.173	64.7	0.789	0.089	6.58
968882		2.95	0.137	76.2	1.615	0.109	0.589
968883		3.84	0.207	52.9	1.810	0.055	1.640
968884		2.52	0.149	25.8	0.748	0.022	5.89
968885		3.40	0.152	21.1	0.723	0.029	2.34
968886		3.19	0.082	18.3	0.418	0.014	1.630
968887		3.13	0.006	1.9	0.046	0.002	0.338
968888		2.28	0.005	0.2	0.010	<0.001	0.036
968889		4.34	0.193	11.9	1.815	0.005	4.53
968890		4.53	0.124	11.9	2.34	0.036	4.87
968891		3.46	0.085	17.3	1.125	0.045	2.89
968892		4.16	0.059	13.4	1.390	0.034	0.390
968893		3.68	0.111	16.6	0.517	0.028	0.121
968894		5.26	0.153	12.0	0.871	0.012	0.078
968895		5.48	0.232	13.4	0.663	0.012	0.088
968896		5.24	0.088	17.1	0.647	0.013	0.326
968897		5.80	0.154	11.1	0.546	0.008	0.348
968898		5.58	0.166	14.3	1.905	0.009	0.768
968899		2.52	0.081	14.8	1.410	0.028	0.525
968900		3.13	<0.005	0.4	0.026	0.002	0.171
j744012		<0.02		34.4	1.385	0.130	18.85
j744013		0.64	<0.005	0.2	0.016	<0.001	0.063