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ASSESSMENT REPORT

describing

DIAMOND DRILLING

at the

MARS PROPERTY

DDH 1-16	YB67058-YB67073
STARS 1-34	YC65873-YC65906
STAR 35-77	YD07305-YD07347

NTS 105E/07

Latitude 61°17'N; Longitude 134°48'W

located in the

Whitehorse Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

NEW DIMENSION RESOURCES LTD.

and

STRATEGIC METALS LTD.

by

K. Unger, B.Sc.

November 2011

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INTRODUCTION

The Mars property covers a copper-gold-molybdenum alkali porphyry prospect located in south-central Yukon. The property is wholly owned by Strategic Metals Ltd. and is under option to New Dimension Resources Ltd.

This report describes a diamond drilling program carried out in late summer 2011 by Archer, Cathro and Associates (1981) Limited on behalf of New Dimension. The work was performed from Whitehorse with daily helicopter support, between September 4 and 20, 2011. The author logged drill core and interpreted all resulting data from this program. His Statement of Qualifications is in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Mars property consists of 93 contiguous mineral claims located in south-central Yukon at latitude 61°17' north and 134°48' west on NTS map sheet 105E/07 (Figure 1). The property covers an area of approximately 1900 hectares (19 km²). The claims are registered with the Whitehorse Mining Recorder in the name of Archer, Cathro who holds them in trust for Strategic Metals. Individual claim locations are shown in Figure 2 and claim registration information is tabulated below:

<u>Claim name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
DDH 1-16	YB67058-YB67073	April 1, 2015
STARS 1-34	YC65873-YC65906	April 1, 2015
STAR 35-77	YD07305-YD07347	September 20, 2012

*Expiry dates do not include 2011 work which has not yet been filed for assessment credit.

The Mars property lies about 65 km north of Whitehorse, the nearest supply centre. The Livingstone Trail, a winter-only trail suitable for tracked vehicles, passes within 5 km of the property en route to placer gold mining camps in the Livingstone Creek area, approximately 20 km east-northeast of the property.

Daily access to the property was provided by a Bell 206B helicopter operated by Capital Helicopters from its base at the Whitehorse airport. Supply runs and drill mobilization were done by that machine and larger, casual use helicopters from the Cousins airstrip on the northern outskirts of Whitehorse. The drill is cached on the property for the winter.

GEOMORPHOLOGY AND CLIMATE

The Mars property is located on Windy Ridge within the Lewes Plateau between Lake Laberge and the Teslin River. Topography in the area is moderate with elevations ranging from 1220 m to 1485 m above sea level.

Narrow creeks divide rocky spurs oriented perpendicular to the northwesterly trend of the main ridge. These creeks drain into the Teslin River, which is part of the Yukon River watershed.

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STRATEGIC METALS LTD.

FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY LOCATION
MARS PROPERTY

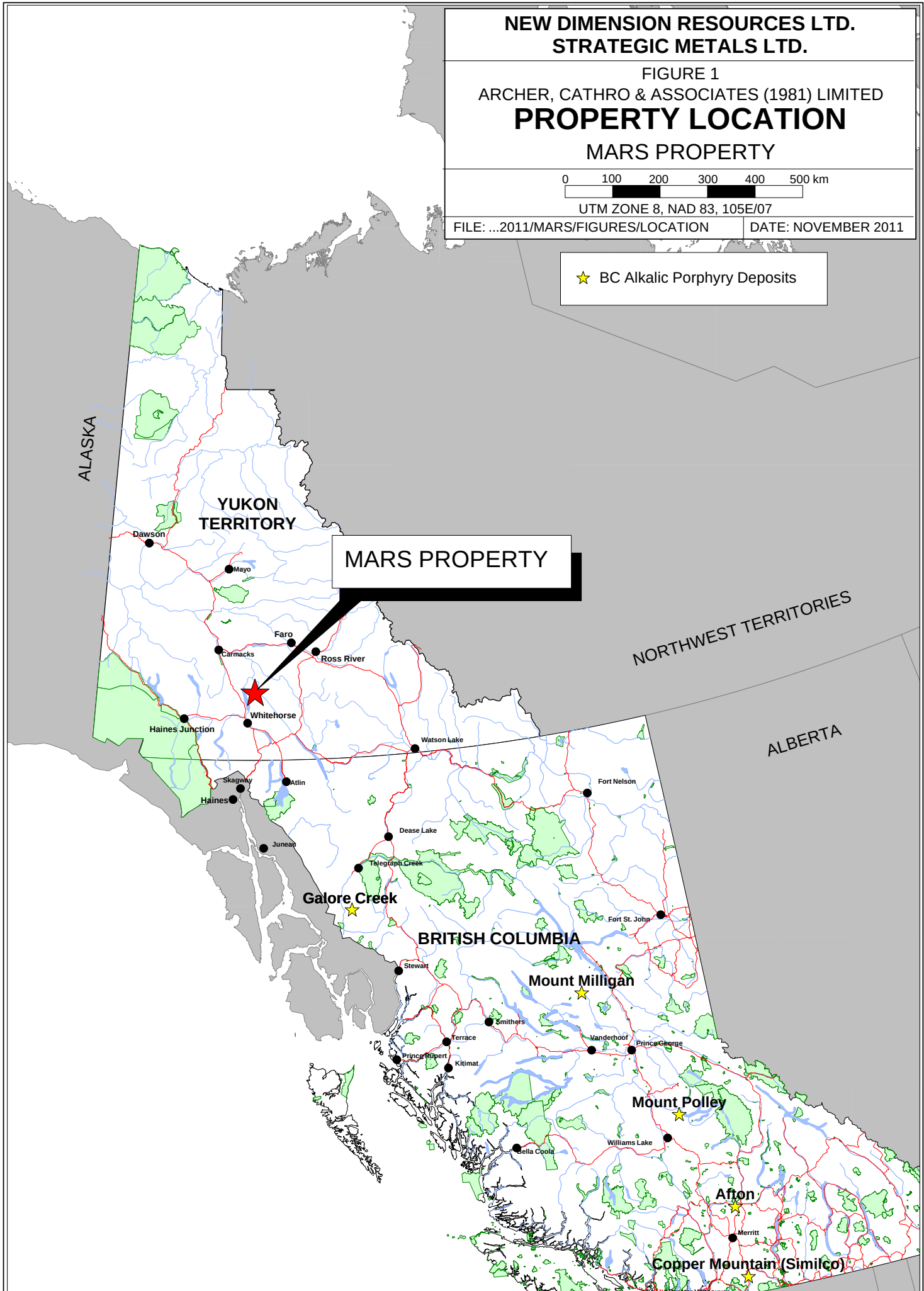
0 100 200 300 400 500 km

UTM ZONE 8, NAD 83, 105E/07

FILE: ...2011/MARS/FIGURES/LOCATION

DATE: NOVEMBER 2011

★ BC Alkalic Porphyry Deposits



Treeline on the property is about 1370 m with grasses, mosses and light brush at higher elevations and stands of alder, willow and black spruce below treeline.

The climate is typical of northern continental regions. The area is semi-arid with total precipitation around 30 cm per year. Summers are short and mild while winters are long and cold.

HISTORY AND PREVIOUS WORK

The earliest record of exploration in the Mars area is from 1971 when a regional stream sediment geochemical survey was conducted by a joint venture (JV) between United Keno Hill Mines, Falconbridge and Canadian Superior. Grab samples from that program returned values up to 0.47% copper and 0.04% molybdenum (Pangman, Van Tassell, 1972). The JV group staked the first claims in the area in July 1972 and conducted geologic mapping, prospecting and soil sampling that year. A total of 902 soil samples were taken and all were analyzed for copper and molybdenum. Sixty-two of the samples were also analyzed for lead, zinc and silver (Pangman, Van Tassell, 1972). Gold analyses were not done. The sampling results identified weak copper and molybdenum values that are scattered over a northwest trend along the main ridge. The JV group completed three hand trenches and a petrographic report in 1973 after which the claims were allowed to lapse.

In 1996, A. Doherty and B. Sauer staked 16 DDH claims over the area after a review of earlier work identified a previously unrecognized alkalic gold-copper porphyry. They collected 12 rock samples that returned anomalous gold values (149 ppb to 4790 ppb), then the property was optioned to Camdan Exploration Inc. (Walton, 1997). Work by Camdan Exploration included prospecting and soil geochemistry sampling (Walton, 1997). Placer Dome optioned the property in 1997 and conducted line cutting, airborne and ground geophysical surveys, grid soil geochemical sampling, mapping, and whole rock and petrographic studies (Wark, 1998). Though the results were favorable and drilling was recommended, Placer Dome dropped its option and the claims reverted back to A. Doherty and B. Sauer.

In 2001, Saturn Ventures Inc. optioned the property and carried out a program of hand trenching, prospecting and geochemical surveys. A total of 107 rock and 1026 grid soil samples were taken during that program (Keyser, 2002). Results were favorable and Saturn Minerals Inc. (successor company to Saturn Ventures Inc.) conducted a small excavator trenching and geologic mapping program in 2003 and a drill program in 2004, which comprised 827 m of core drilling in 7 holes on 4 drill sites (Lang and McClaren, 2004). Disappointing results prompted Saturn Minerals to drop its option, and the claims were returned to A. Doherty and B. Sauer.

In 2007, ATAC Resources Ltd. staked the STARS claims adjacent to the DDH claims, and in 2009 it purchased B. Sauer's 50% stake in the DDH claims.

In 2010, Strategic Metals Ltd. purchased ATAC Resources' interests in the DDH and STARS claims, and B. Dougherty's 50% holding in the DDH claims. That year, Strategic Metals carried out a helicopter-borne magnetics and radiometrics survey, which identified a northwest trending magnetic anomaly that corresponds to anomalous soil geochemistry (Fu, 2010).

REGIONAL GEOLOGY

The Mars property is located in the northern-most part of the Stikinia, a large accreted terrane that extends from southern Yukon to southern British Columbia (Figure 3). Stikinia is made up of Upper Paleozoic volcanic arc basement rocks, which are locally overlain by Lewes River volcanic arc rocks that built up in Middle to Late Triassic (Hart, 1997). Erosion from uplifted arc sequences filled an adjacent basin, known as the Whitehorse Trough, with up to 7 km of clastic and carbonate strata that include the Tanglefoot Formation of the Laberge Group (Keyser, 2002).

The Mars property covers the southern portion of the Teslin Crossing Pluton, an isolated Early to Middle Jurassic intrusion that cuts the Whitehorse Trough (Hart, 1997). Dykes and stocks related to the Teslin Crossing Pluton are distinct from other plutons in the district and are confined to a band 15 km long (Hart, 1997).

Regional structures commonly strike northwest and are mostly right-lateral, strike slip faults. These large faults may control local features, which are also predominantly northwest trending (Keyser, 2002). Regional geology is presented on Figure 4.

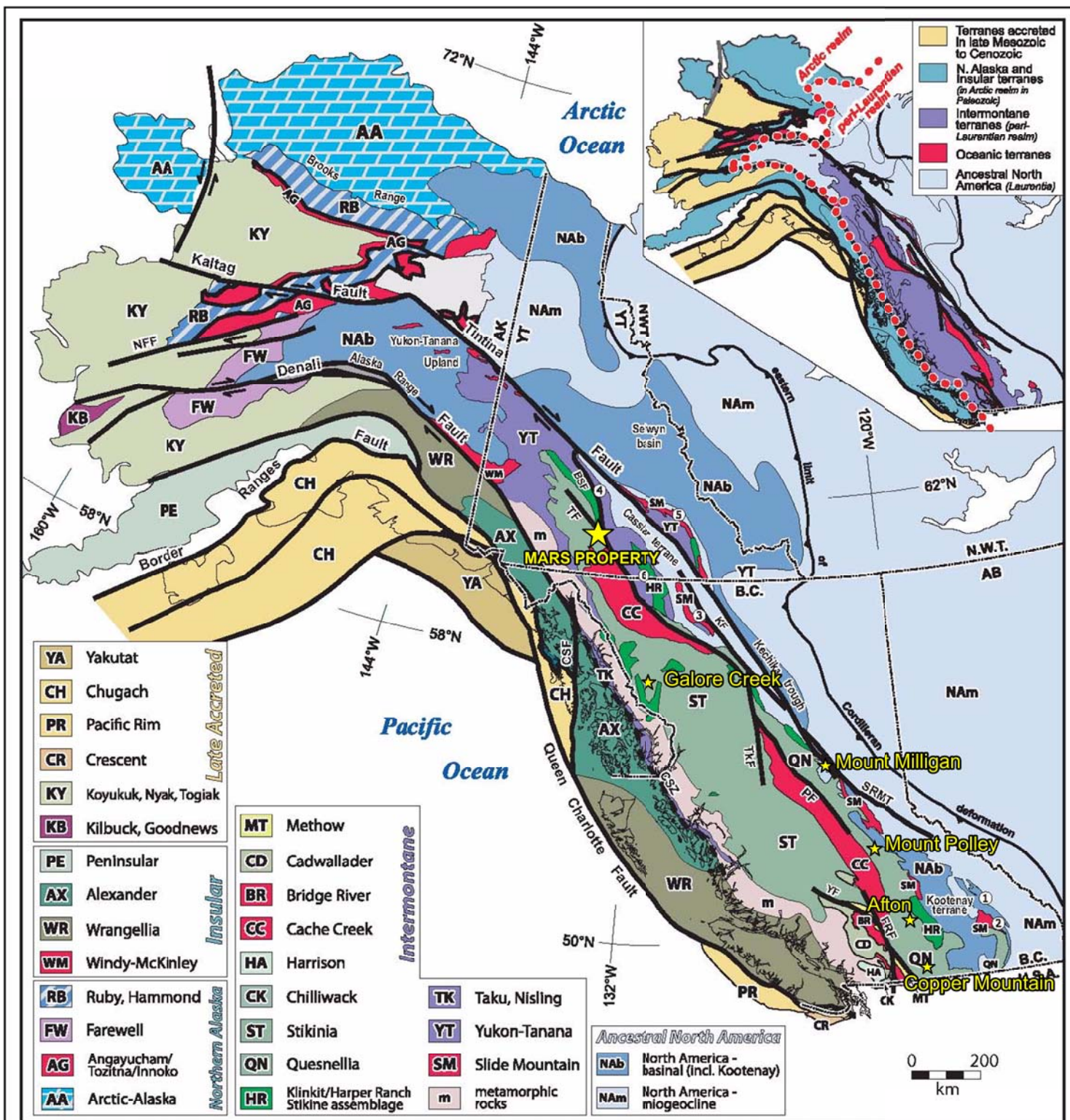
PROPERTY GEOLOGY

The Mars property (Figure 5) covers the southern part of the Teslin Crossing Pluton, and surrounding Jurassic sediments of the Tanglefoot Formation (Carne, 2008). The wallrocks dip shallowly away from the pluton and consist of black, fissile, variably limy shales and siltstones with cherty sandstone beds and minor coal seams (Wark, 1998).

The pluton itself is an 8.5 by 7 km, elliptical, zoned, silica saturated stock (Carne, 2008) classified as a pyroxenite-associated silica-saturated alkali syenite (Hart, 1997). The contacts are irregular, following or controlling local topography (Hart, 1997). The pluton features a varied and complex central phase composed of predominantly pink, equigranular coarse-grained monzonite and syenite with zoned plagioclase, and a border phase that consists of medium grey, porphyritic and granophyric monzodiorite to monzonite with euhedral plagioclase and hornblende plus accessory magnetite, apatite, titanite, pyroxene and pyrite (Hart, 1997). Sills found south of the pluton dip west, have narrow baked halos of black shales and are compositionally similar to the border phase of the pluton, but finer grained (Hart, 1997). Medium to coarse grained pyroxenite and pyroxene gabbro xenoliths are present in both the central and border phase of the Teslin Crossing Pluton (Hart, 1997). Sedimentary xenoliths are found in the border phase near its outer contact (Walton, 1997).

Potassic alteration is pervasive in both phases of the pluton and occurs as narrow pink selvages along hairline fractures and within broader breccia zones (Hart, 1997). Chalcopyrite is found in carbonate veinlets, on fracture faces and as disseminations within potassic altered Teslin Crossing rocks (Walton, 1997). Molybdenite is confined to fractures.

Litho-geochronological data from the Teslin Crossing Pluton is consistent with plutons that host copper-gold alkalic porphyry deposits (Hart, 1997). The age of emplacement for the Teslin



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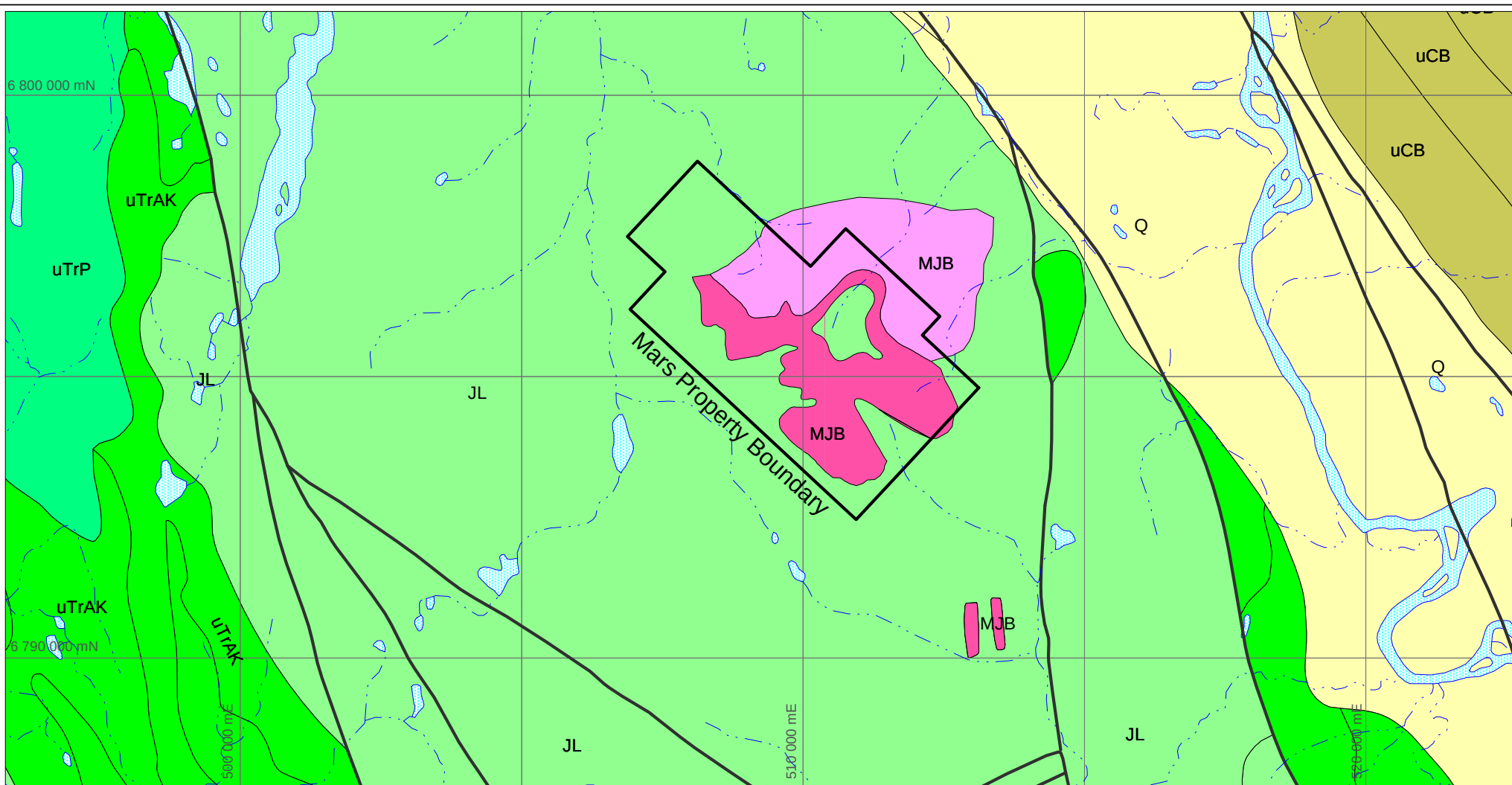
FIGURE 3
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TECTONIC SETTING MARS PROPERTY

UTM ZONE 8, NAD 83, 105E/07

FILE: ...2011/MARS/FIGURES/TECTONIC

DATE: NOVEMBER 2011



Quaternary:

Q Quaternary: Unconsolidated glacial, glaciofluvial and glaciolacustrine deposits.

Jurassic:

MJB Bryde Suite: Undeformed monzonite, syenite and granite, and hornblende granite and monzodiorites.

JL Laberge: Poorly sorted, variably bedded to massive arkosic sandstone with pebble-boulder conglomerate.

Triassic:

uTrAK Aksala: Mixed carbonate greywacke, thick carbonate and red clastics.

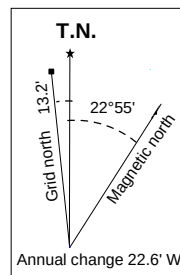
uTrP Povoas: Augite or feldspar phryic, locally pillowed andesitic basalt flows and breccia.

Carboniferous:

uCB Boswell: Mixed clastic strata, minor greenstone, altered volcanics, gabbro and limestone.

Fault

*From Gordey and Makepeace, 2003 and Carne, 2008.



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FIGURE 4 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED **REGIONAL GEOLOGY** MARS PROPERTY



UTM ZONE 8, NAD 83, 105E/07

FILE: ...2011/MARS/FIGURES/REGIONAL

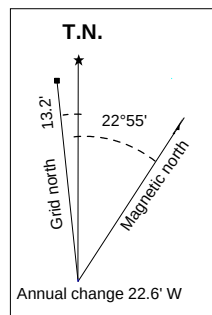
DATE: NOVEMBER 2011



2011 Drill DDH collar location



Historic DDH collar location



Middle Jurassic:

Bryde Suite (Teslin Crossing Pluton):



Main Zone: Equigranular syenite to hornblende monzodiorite



Border Zone: Hornblende-plagioclase porphyritic monzonite to monzodiorite

Lower to Middle Jurassic:

Laberge Group (Tanglefoot Formation):



Sandstone, siltstone and shale

**From Gordey and Makepeace, 2003 and Carne, 2008.*

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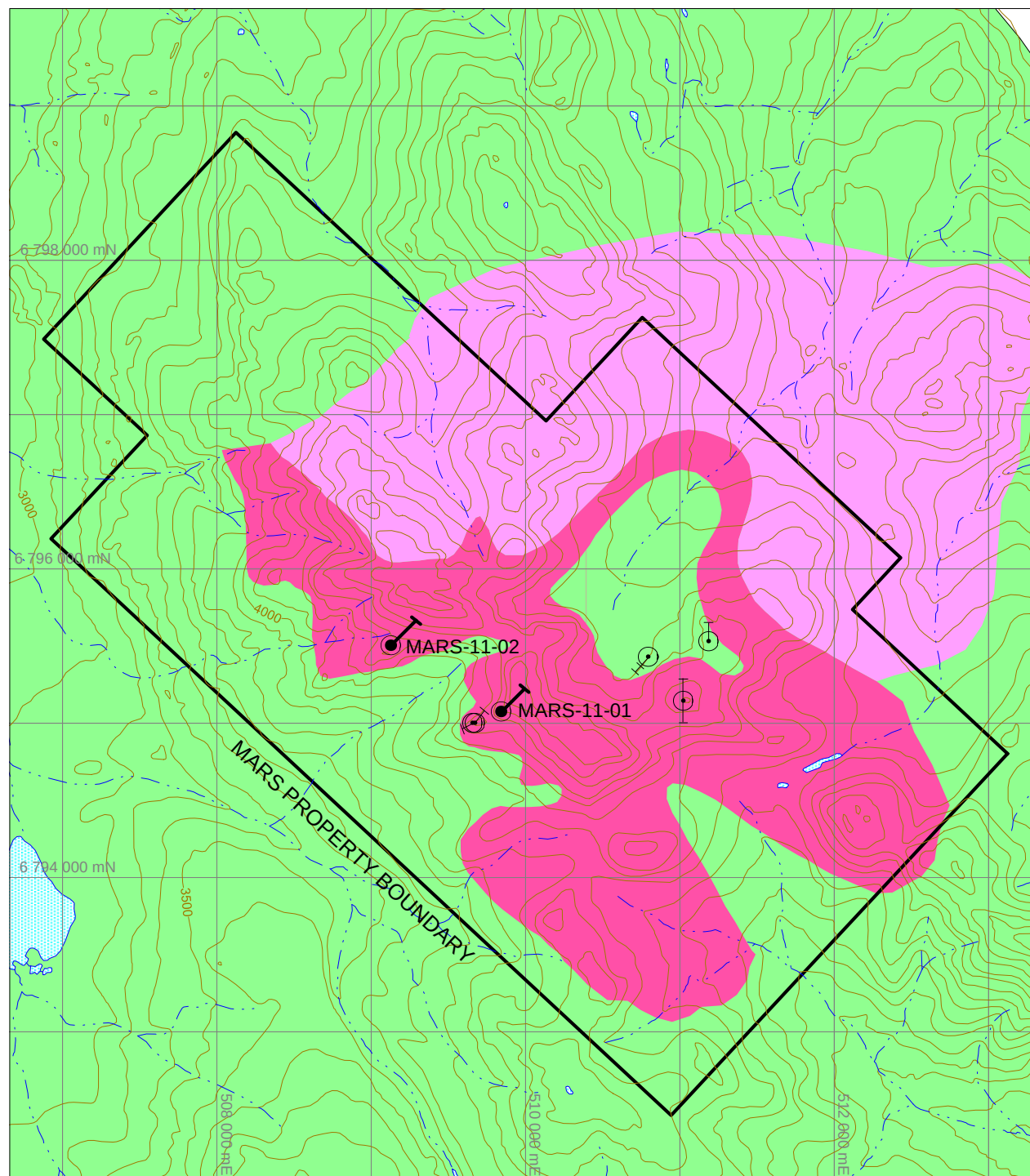
FIGURE 5 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED **PROPERTY GEOLOGY** MARS PROPERTY

0 1 2 3 km

UTM ZONE 8, NAD 83, 105E/07 Contour Interval: 100 ft.

FILE: ...2011/MARS/FIGURES/REGIONAL

DATE: NOVEMBER 2011



Crossing Pluton is dated at 176-186 Ma, which is younger than most alkali porphyry deposits in British Columbia (210-201 Ma), but is identical to that of Mt. Milligan alkali porphyry system (Hart, 1997).

HISTORICAL SOIL GEOCHEMISTRY

In 1972, United Keno collected 840 samples on a 1 km by 2.5 km grid. Those samples were analyzed for copper and molybdenum. Sample locations and results are plotted on Figures 6 and 7. Results for copper were moderately to very strongly anomalous, with the highest values ranging between 680 and 1360 ppm. Molybdenum values correlate well with copper and include values up to 120 ppm.

In 1997, Placer Dome collected another 935 soil samples from a 2 km by 4 km grid that overlapped the United Keno grid. Results for copper and gold from that survey are shown thematically on Figures 6 and 8. Copper values are strongest along a northwestern trend on the western slope of Windy Ridge, where values range from 100 ppm to 500 ppm. Gold values reached values up to 485 ppb but they are poorly correlated with copper.

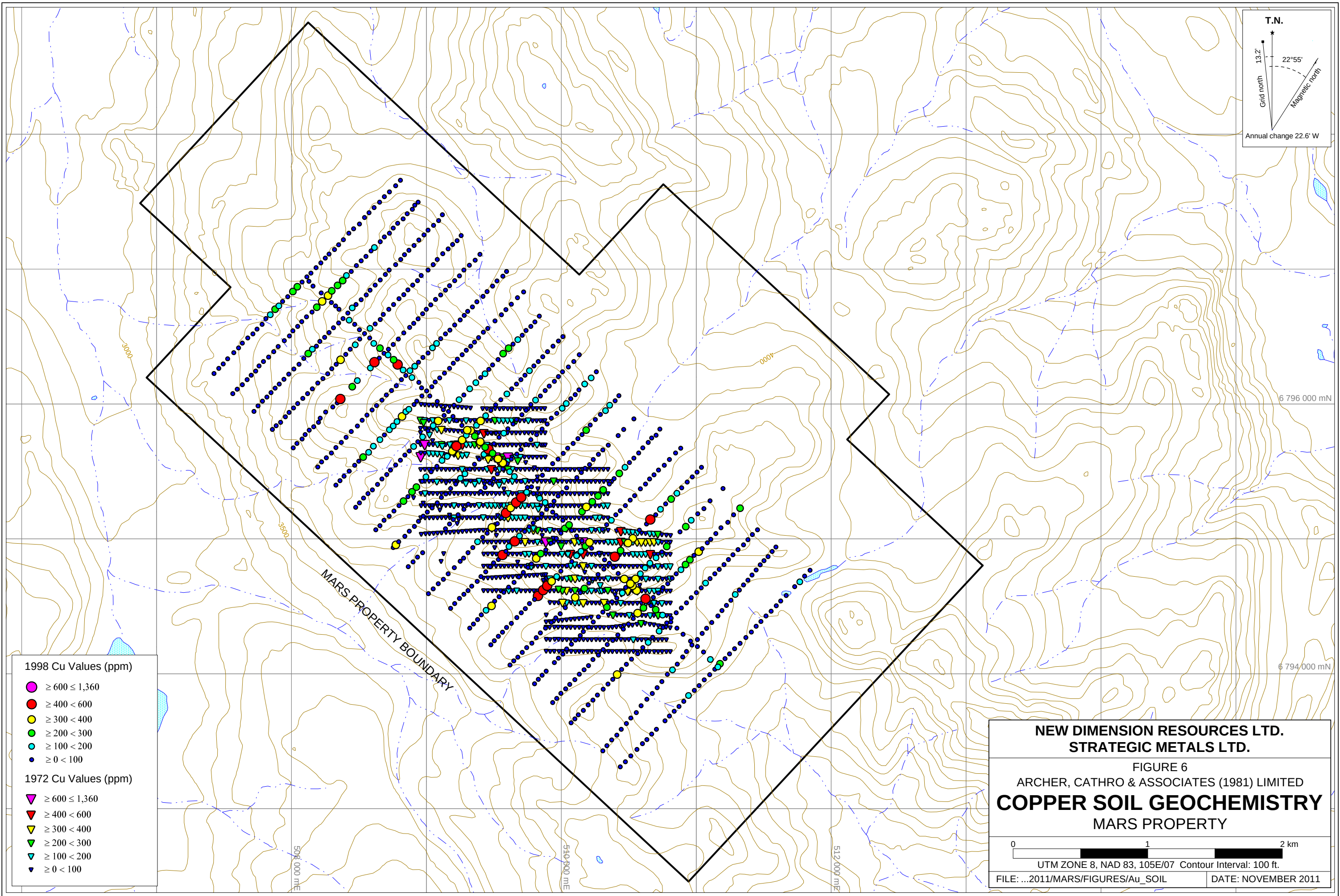
HISTORICAL GEOPHYSICAL SURVEYS

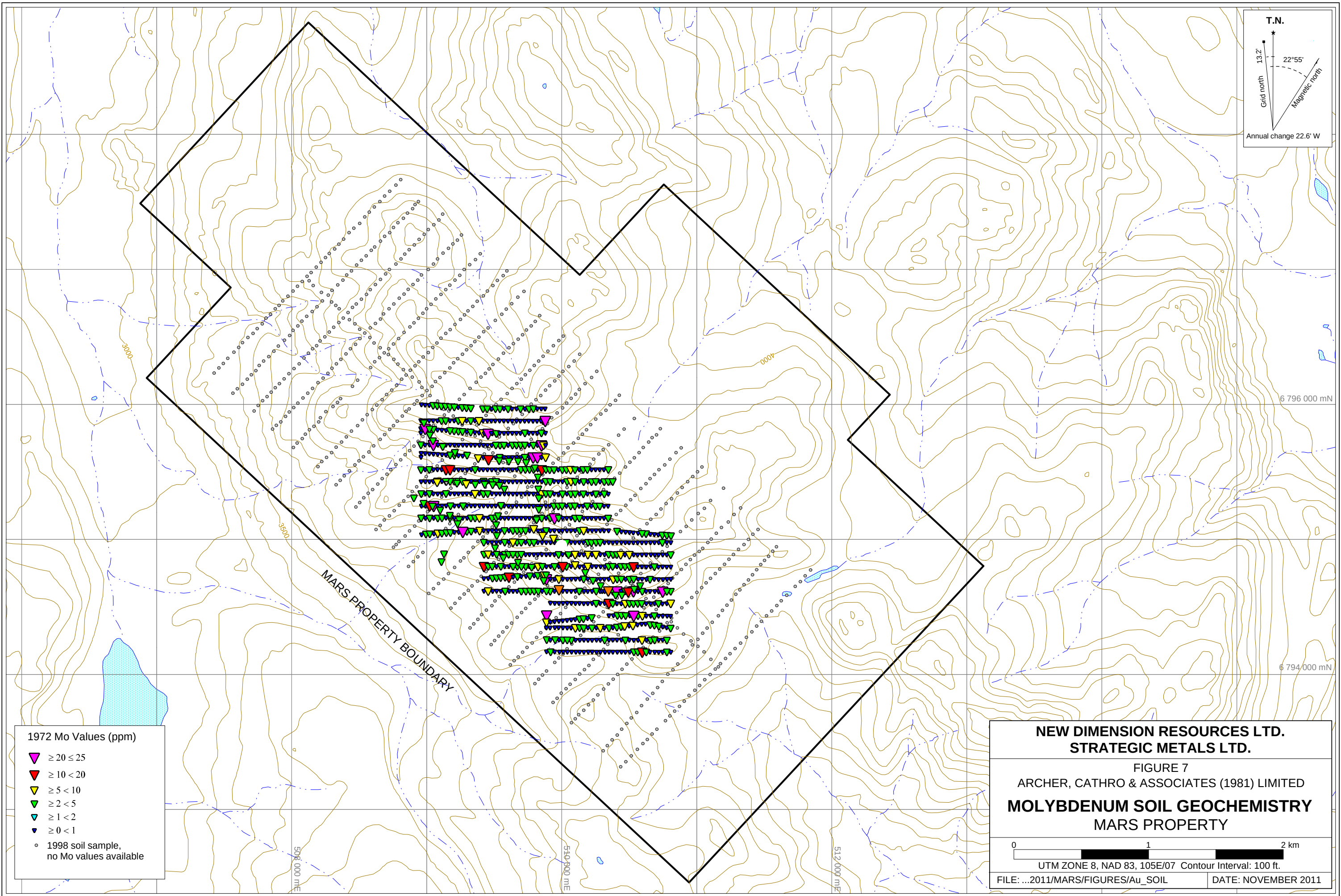
In 1997, Placer Dome completed ground IP and airborne magnetic and radiometric surveys over the entire Teslin Crossing Pluton. In 2007, Strategic Metals Ltd. carried out a helicopter-borne VTEM survey over the DDH and Stars claims and in 2010 conducted helicopter-borne magnetics and radiometric surveys over the same area.

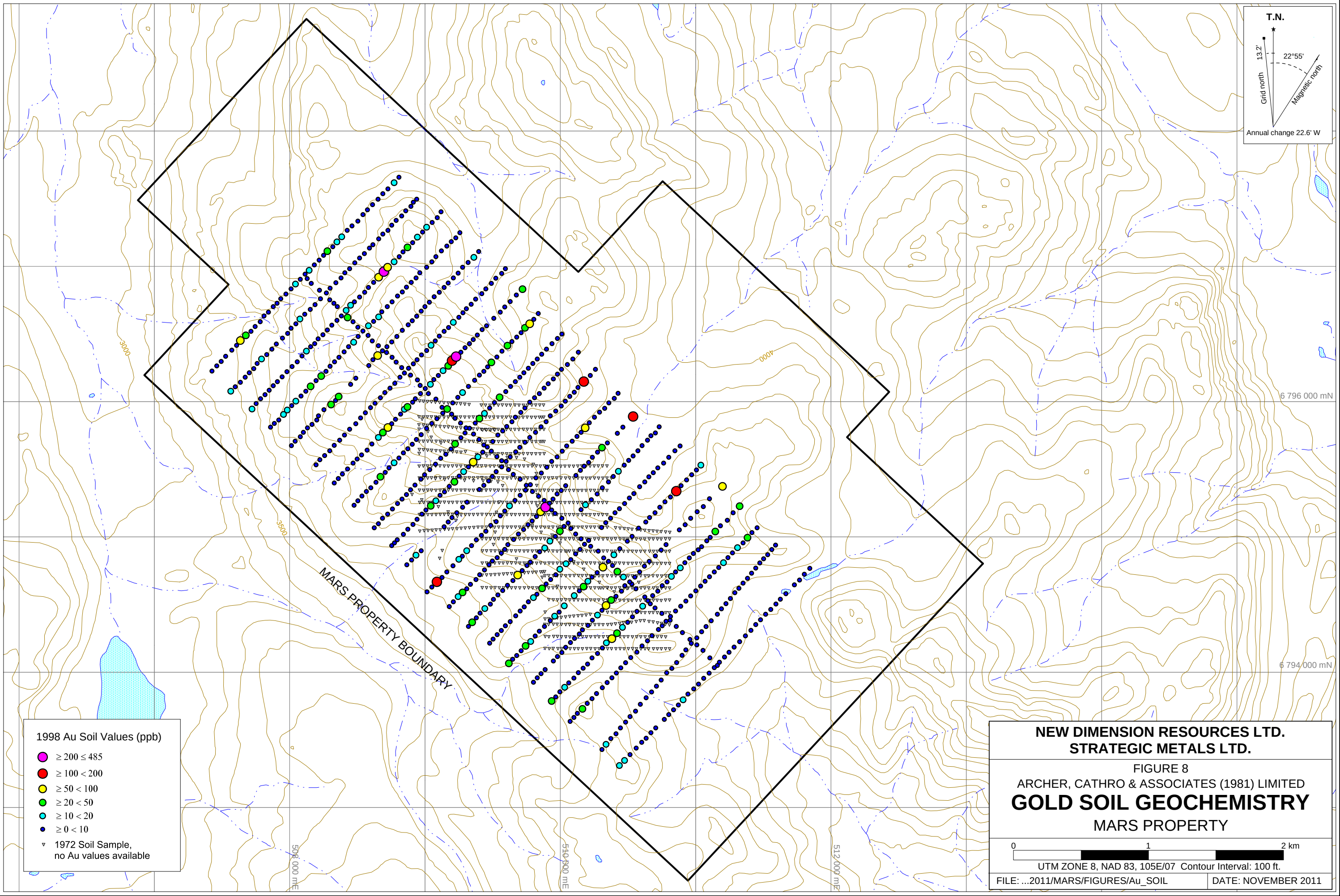
The magnetic surveys showed that the border phase of the pluton has a strong magnetic signature (Figure 9). Interpretation of the data indicates the Teslin Crossing Pluton is bound by a large fault along its northeast and southeast margins, as reflected by a sudden decrease in magnetic response across the structure. A broad zone of elevated magnetic response along the south and west margins of the pluton suggests that the intrusive rocks continue beneath relatively shallow southwest dipping sediments.

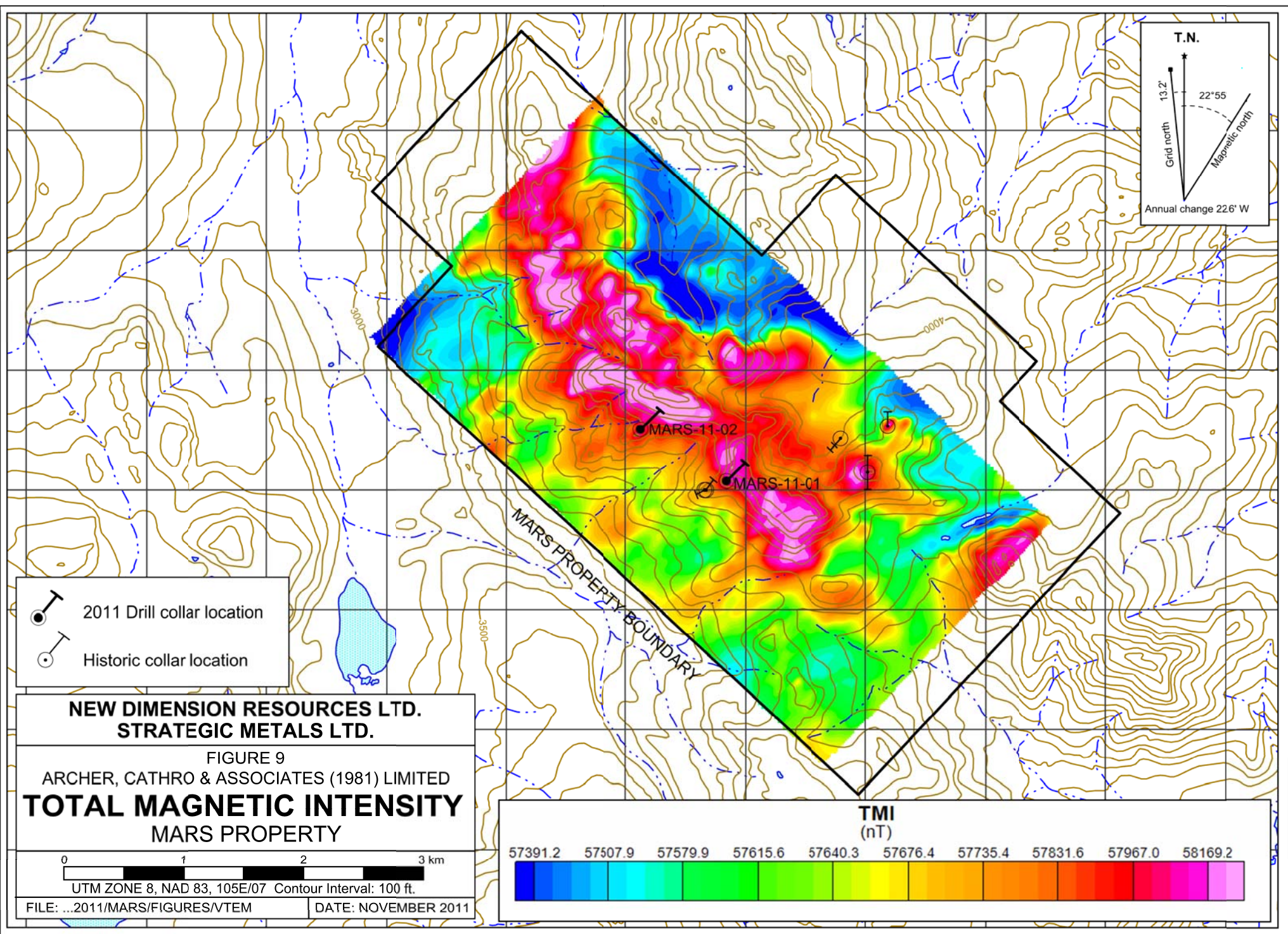
Chargeability and resistivity anomalies were identified by the IP survey completed in 1997. Chargeability highs reflect elevated contents of pyrite and pyrrhotite in hornfelsed sedimentary rocks along the south dipping contact of the pluton. Resistivity is highest within the border phase of the pluton. Resistivity and magnetic highs correlate well with the soil geochemical anomalies, enforcing the observation that silicification, albitization and magnetite enrichment are associated with copper mineralization in the border phase of the pluton.

The airborne radiometric survey measured total counts, potassium, thorium and uranium. All four data sets show good correlation and outline the surface of the intrusion. Potassium/thorium ratios have a strong negative correlation with maximum magnetic response, supporting observations that proximal silicification, albitization and magnetite enrichment associated with the copper mineralization overprint early stage pervasive potassic alteration. At lower elevations and in vegetated areas, radiometric results are inconclusive because they are masked by overburden cover.









In general, anomalous gold soil geochemical values correspond better to high magnetic response than do copper values. The highest gold value from the 2004 drill program was from hole M4-06, which intersected a 4.57 m interval that assayed 6.435 g/t. This interval contained abundant magnetite-pyrite veins and lies directly beneath a moderate magnetic high.

DIAMOND DRILLING

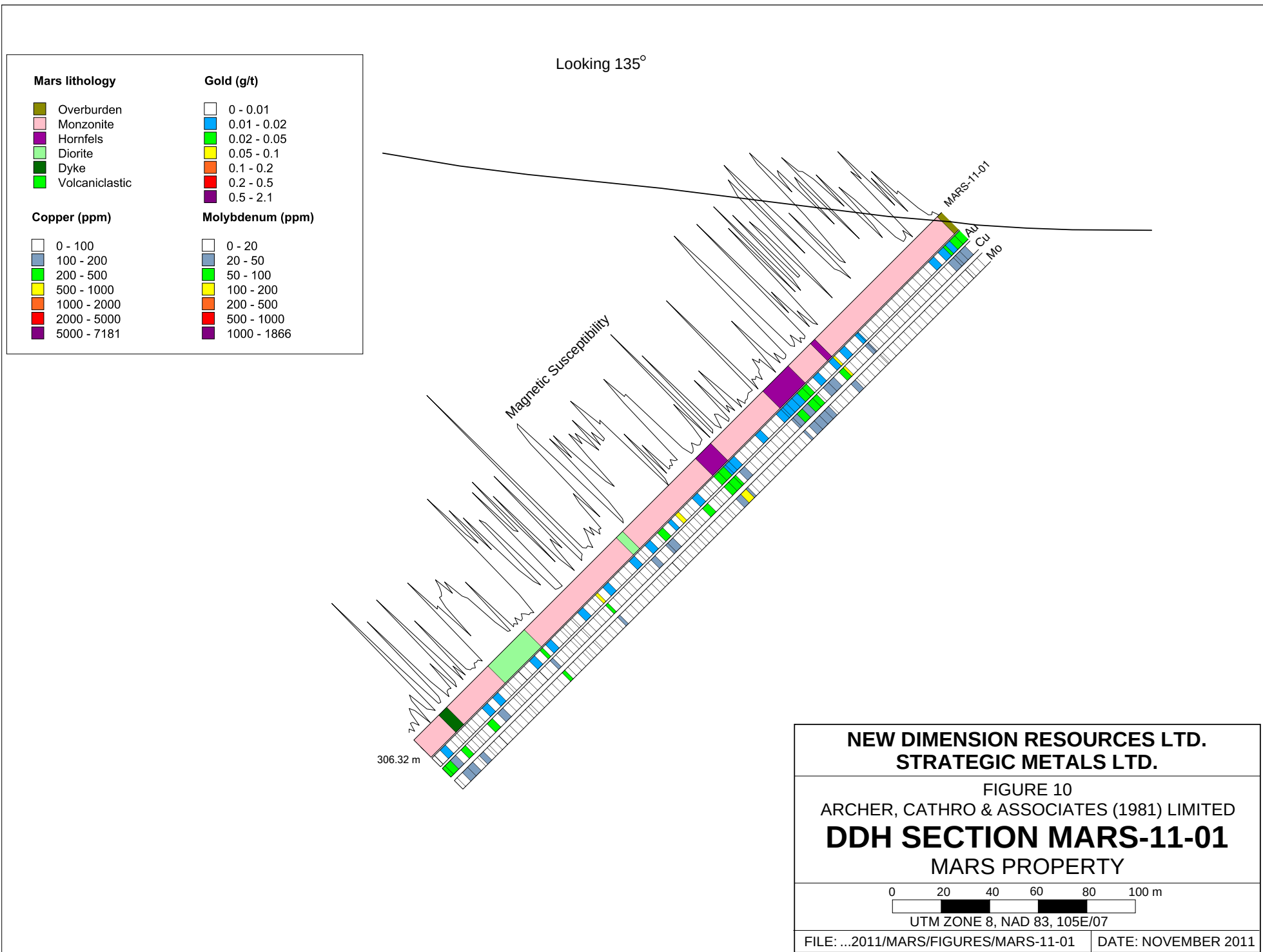
In 2004, Saturn Minerals, Inc. completed seven diamond drill holes totalling 827 m off four drill sites (Lang and McClaren, 2004). A total of 192 samples of split core were sent for analysis. All copper values were less than 667 ppm and only 9 samples returned gold values greater than 100 ppb. The best gold result was the 4.57 m interval in hole M4-06, which graded 6.435 g/t (Lang and McClaren, 2004). The locations, orientations and depths of the 2004 drill program are tabulated below.

Table I: 2004 Drill Data

Drill Hole	Easting	Northing	Elev (m)	Azimuth	Angle	Depth (m)
M4-01	509676	6794991	1375	060	-60	123.85
M4-02	509673	6794988	1375	240	-45	76.45
M4-03	509673	6794988	1375	240	-75	48.47
M4-04	511030	6795128	1425	180	-60	178.89
M4-05	511030	6795131	1425	000	-60	141.83
M4-06	511186	6795519	1372	000	-60	125.38
M4-07	510816	6795433	1316	235	-60	134.55

In August 2011, New Dimension Resources drilled two holes that were designed to test the northwest trending geochemical and geophysical anomalies on the west side of Windy Ridge. The program assumed the geophysical anomaly corresponds to a magnetite bearing, silica-saturated alkali porphyry favorable for hosting gold and copper mineralization. Previous drilling did not test this anomalous trend.

The drill program was conducted between September 4 to September 20, 2011. The drill collar locations are shown on Figures 5 and 9. The core was flown off the property and taken to the Whitehorse office of Archer, Cathro where it was logged. The core is currently stored in Archer, Cathro's fenced yard and will later be donated to the core library of the Yukon Territorial Government. Sampling and Analytical Procedures for the core are explained in Appendix II, Certificates of Analyses are provided in Appendix III, and Geological and Geotechnical Logs are given in Appendix IV. Important data relating to the 2011 drill holes are shown on Table II. Geological sections and analytical results are presented on Figures 10 and 11.



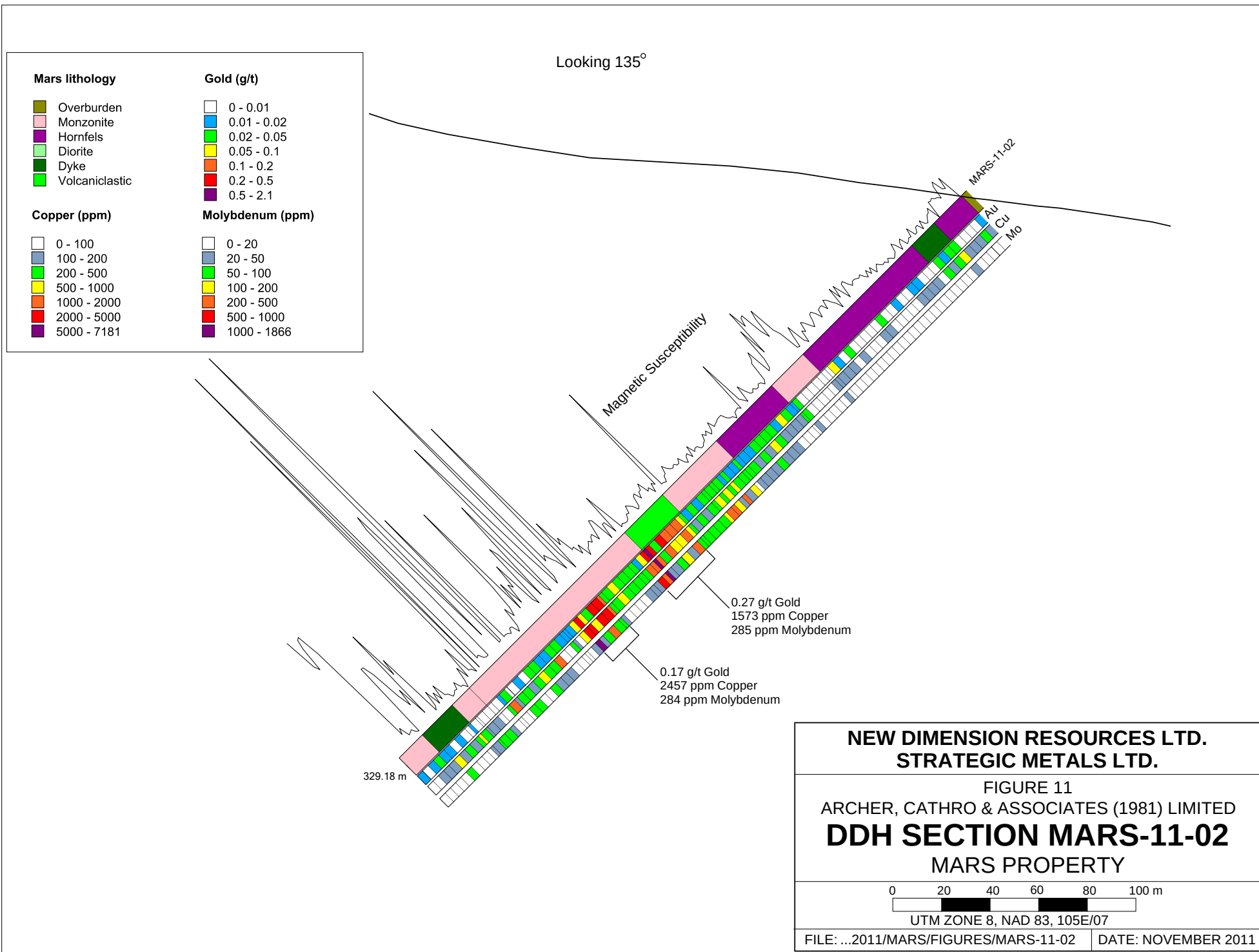


TABLE II: 2010 Drill Data

Drill Hole	Easting	Northing	Elev (m)	Azimuth	Angle	Depth (m)
MARS-11-01	509839	6795069	1329	045	-45	306.32
MARS-11-02	509126	6795502	1362	045	-45	329.18

MARS-11-01 intersected intrusive rocks of the Teslin Crossing Pluton, hornfelsed metasediments and mafic dykes. Significant alkaline porphyry-style mineralization was not intersected. Pyrite and chalcopyrite are present in trace amounts in narrow, healed fractures and calcite veinlets throughout all rock types. Disseminated pyrite is common within hornfelsed rocks. Selvages of fractures are often pink with dark biotite and/or tourmaline. Pink potassic alteration is most strongly associated with breccias and zones with a high fracture density. Some fractures are weathered with limonitic coatings. The best interval in MARS-11-01 graded 0.08 g/t gold, 0.0953% copper, 0.48 g/t silver and 7.75 ppm molybdenum over 1.00 m from 72.70 to 73.70 m.

MARS-11-02 cut similar rocks but with significantly better results. Two intersections were particularly interesting: 23.07 m from 179.83 m to 202.90 m assayed 0.27 g/t gold, 0.16% copper, 1.22 g/t silver and 0.028% molybdenum; and 14.75 m from 224.23 to 238.98 m graded 0.17 g/t gold, 0.25% copper, 2.03 g/t silver and 0.028% molybdenum. MARS-11-02 was terminated prematurely when the water supply froze for the season. Although the intervals are relatively limited in size, these grades are close to or within economic ranges reported for Cu-Mo-Au porphyry and alkali porphyry deposits in British Columbia (Panteleyev, 1995a, Panteleyev, 1995b).

DISCUSSION AND CONCLUSIONS

The Mars property is situated on the Teslin Crossing Pluton near the northern extent of Stikinia, a geological terrane known to host economic porphyry deposits. The pluton is a pyroxenite-associated silica-saturated alkali syenite with a geochemical signature and age comparable with known copper-gold alkalic porphyry deposits (Hart, 1997).

In 2011, a diamond drill program completed two holes targeting geochemical and geophysical anomalies assumed to represent magnetite-rich, silica saturated alkali porphyry type alteration with potential to host copper and gold mineralization. Two mineralized intervals with grades similar to economic porphyry deposits in British Columbia were intersected in one of the holes.

The results from the 2011 drill program proved that copper-gold porphyry style mineralization is located on the Mars property. Results warrant further exploration to assess and identify the character and extent of porphyry mineralization. Future exploration should begin by deepening hole MARS-11-02 and then additional diamond drill holes should test for gold-copper-molybdenum porphyry mineralization in other areas along the geochemically and geophysically anomalous trend.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Kirk Unger, B.Sc.

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APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Kirk Unger, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of Waterloo in 2009 with a B.Sc., Honours in Science with a Minor in Earth Sciences.
2. From 2006 to present, I have been actively engaged in mineral exploration in Yukon Territory and British Columbia.
3. I have personally participated in the core logging work reported herein and have interpreted all data resulting from this work.

Kirk Unger, B.Sc.

APPENDIX II

SAMPLING AND ANALYTICAL PROCEDURES

Sample Handling and Analytical Procedures for 2011 Core

Core was transported off the property by helicopter from the drill sites to Cousins Airstrip in Whitehorse and then by truck to a logging facility at Archer Cathro's Whitehorse office. There recovery was measured and geological and geotechnical logging was performed. Logging procedures included magnetic susceptibility measurements. The entire length of each hole was split in half using a manual core splitter with one half sent for analysis and the other returned to the core box. Core is currently stored at Archer Cathro's fenced office compound and will later be donated to the Yukon Territorial Government's core library in Whitehorse.

Core samples were double bagged in plastic sample bags and batched up into rice bags for transport. Batches were taken to ALS Chemex prep lab in Whitehorse by truck from the Archer, Cathro office by a representative from Archer, Cathro. Core samples were dried and crushed to 70% minus 2 mm before a 1.5 kg split was taken and pulverized to better than 85% minus 75 microns. To minimize contamination, equipment was twice washed with silica sand between samples. Pulverized splits were shipped to ALS Chemex in North Vancouver for analysis and assay. Splits were routinely dissolved in aqua regia digestion and analyzed for 51 elements using the ME-MS41 method which includes combined inductively coupled plasma (ICP) with mass spectroscopy (MS) and atomic adsorption spectroscopy (AES). Samples were analyzed for gold by fire assay finished with atomic adsorption spectroscopy (Au-AA26). Certificates of Analysis are found in Appendix IV. Two assay standards, two blanks and 1 duplicate sample, consisting of a section of quartered core, were inserted into each batch of core samples. All batches passed QAQC protocols.

APPENDIX III
CERTIFICATES OF ANALYSIS



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1
Finalized Date: 19- NOV- 2011
Account: F

CERTIFICATE WH11219077

Project: MARS

P.O. No.: Batch 7

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 21- OCT- 2011.

The following have access to data associated with this certificate:

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME- MS41	51 anal. aqua regia ICPMS
Au- AA26	Ore Grade Au 50g FA AA finish AAS

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11219077

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.01	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
L836067		6.29	0.20	0.54	0.67	8.9	<0.2	130	70	0.48	0.43	1.59	0.15	18.15	16.1	21
L836068		6.04	0.04	0.10	0.61	24.0	<0.2	610	170	0.42	0.39	1.86	0.07	15.25	14.0	17
L836069		4.21	0.26	0.52	0.69	44.1	0.3	40	280	0.71	0.48	1.97	0.22	32.1	10.7	27
L836070		3.11	2.09	3.37	0.75	89.2	0.8	10	220	0.93	1.38	2.58	0.56	34.6	25.7	33
L836071		3.43	0.24	6.24	0.93	11.9	0.2	10	390	1.23	10.05	3.51	1.49	49.4	16.1	24
L836072		5.13	0.08	1.11	0.74	9.1	<0.2	<10	420	1.37	1.17	3.90	0.39	53.9	11.4	24
L836073		4.40	0.01	0.19	0.56	14.7	<0.2	120	200	0.44	0.17	1.64	0.07	23.5	14.3	20
L836074		3.79	0.03	0.33	0.82	11.7	<0.2	10	270	0.94	0.57	2.34	0.17	44.3	12.3	14
L836075		5.81	0.04	0.21	0.89	7.1	<0.2	10	290	1.00	0.30	2.10	0.08	41.9	5.9	6
L836076		5.49	0.03	0.18	0.91	6.6	<0.2	40	510	1.08	0.24	1.80	0.11	50.2	4.1	7
L836077		2.25	<0.01	0.01	0.03	<2	<0.2	<10	10	<0.05	0.03	20.4	0.06	1.22	1.0	<1
L836078		5.62	0.02	0.49	0.86	5.4	<0.2	10	910	1.40	0.88	2.26	0.19	63.1	4.3	6
L836079		5.74	0.05	0.87	1.04	5.0	<0.2	10	610	1.34	1.82	2.16	0.21	84.8	5.8	6
L836080		5.47	0.03	0.44	1.12	3.9	<0.2	10	400	0.95	0.46	1.57	0.15	53.5	5.4	9
L836081		3.14	0.04	0.24	1.36	15.2	<0.2	10	330	0.83	0.17	1.54	0.12	43.9	6.4	4
L836082		2.37	0.18	0.99	0.74	11.6	<0.2	110	350	0.50	0.36	1.38	0.16	29.4	17.5	20
L836083		5.75	0.26	1.03	2.37	11.4	0.3	50	300	0.76	0.44	2.40	0.24	53.5	20.3	37
L836084		5.27	0.21	3.47	1.94	7.4	0.2	10	330	1.36	2.18	2.98	0.76	79.7	20.0	41
L836085		5.68	0.04	0.88	0.93	5.0	<0.2	10	960	1.49	1.22	4.14	0.12	95.0	6.5	11
L836086		3.39	0.06	3.00	1.36	5.4	<0.2	20	60	1.55	0.74	4.08	0.33	63.5	12.2	72
L836087		0.25	0.47	2.27	1.01	116.5	0.4	<10	40	0.45	0.49	0.49	1.17	22.9	18.8	31
L836088		4.21	0.26	2.73	1.16	8.3	0.3	10	250	1.11	1.19	4.71	0.29	116.5	10.7	22
L836089		4.72	0.08	0.29	0.84	21.5	<0.2	1010	440	0.93	0.25	1.95	0.10	24.4	6.0	29
L836090		4.61	0.01	0.05	1.10	2.5	<0.2	40	360	0.41	0.07	1.29	0.05	42.8	2.7	15
L836091		2.61	0.01	0.12	2.57	3.1	<0.2	30	1220	0.55	0.04	2.11	0.04	59.9	19.1	204
L836092		3.35	0.01	0.09	1.16	2.1	<0.2	<10	600	0.43	0.06	1.37	0.06	42.1	5.5	13
L836093		5.52	0.01	0.17	1.33	5.3	<0.2	10	850	0.73	0.17	2.16	0.22	54.5	3.0	7
L836094		0.24	0.28	2.05	1.56	29.2	0.2	<10	120	0.52	2.14	1.95	1.17	38.5	18.5	67
L836095		5.60	0.03	0.23	1.17	14.5	<0.2	10	550	1.13	0.31	3.09	0.35	67.3	5.3	9
L836096		5.32	0.03	4.35	0.88	6.1	<0.2	<10	760	1.93	5.82	3.67	0.44	86.4	12.5	14
L836097		5.23	0.01	0.24	0.59	19.7	<0.2	120	1040	1.04	0.21	3.06	0.11	41.1	7.1	9
L836098		2.64	0.01	0.25	0.69	17.1	<0.2	100	1060	1.10	0.27	3.13	0.13	48.3	7.2	9
L836099		5.90	0.01	0.20	1.88	28.8	<0.2	1700	290	0.94	0.22	6.36	0.11	34.6	12.1	28
L836100		2.73	<0.01	0.01	0.04	<2	<0.2	20	10	<0.05	0.03	20.8	0.07	1.53	1.4	<1
L836101		5.41	0.02	1.01	1.18	17.6	<0.2	480	330	1.43	1.14	5.73	0.72	43.0	16.4	35
L836102		6.49	0.02	0.54	1.41	7.3	<0.2	50	300	0.89	0.32	6.06	0.49	49.7	11.2	55



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
L836067		0.94	1800	2.57	4.33	0.15	0.73	0.01	0.043	0.07	13.2	14.9	0.26	188	55.1
L836068		0.26	278	2.28	3.49	0.12	0.78	0.01	0.017	0.11	11.2	9.6	0.31	281	35.4
L836069		0.89	1685	1.75	4.51	0.12	0.84	0.01	0.055	0.10	27.8	14.7	0.42	264	42.2
L836070		0.17	7180	2.91	5.92	0.15	0.80	0.03	0.184	0.12	29.1	21.4	0.63	339	1865
L836071		0.68	1825	2.46	7.38	0.17	0.77	0.02	0.054	0.13	37.1	32.6	0.70	580	416
L836072		0.85	1155	2.48	5.80	0.14	1.23	0.03	0.041	0.10	36.2	17.2	0.46	618	627
L836073		0.30	334	2.12	3.78	0.09	0.76	0.01	0.012	0.10	15.7	12.0	0.41	221	38.4
L836074		1.12	375	1.72	5.31	0.11	0.77	0.01	0.016	0.12	30.0	21.9	0.41	323	38.9
L836075		2.41	381	0.99	4.38	0.09	0.59	<0.01	0.015	0.12	25.9	17.1	0.28	216	49.8
L836076		1.06	219	0.93	5.04	0.10	0.67	0.02	0.013	0.15	33.1	19.2	0.27	203	19.15
L836077		0.12	3.6	0.47	0.10	<0.05	<0.02	<0.01	<0.005	0.01	0.6	0.7	12.25	219	0.73
L836078		0.50	419	0.92	5.49	0.12	0.68	0.01	0.014	0.13	50.6	21.6	0.28	243	16.45
L836079		2.64	765	1.16	5.98	0.13	0.59	0.01	0.024	0.12	72.9	29.1	0.42	276	15.05
L836080		3.93	239	0.99	4.52	0.10	0.50	0.01	0.012	0.16	35.9	20.6	0.31	168	9.71
L836081		3.25	412	0.98	4.83	0.10	0.60	<0.01	0.010	0.13	26.3	16.4	0.21	133	26.4
L836082		1.53	1575	2.32	3.99	0.11	0.89	0.01	0.034	0.12	19.2	17.5	0.28	191	77.1
L836083		10.15	2350	2.68	8.23	0.17	0.72	0.01	0.051	0.46	34.3	57.1	1.30	263	86.8
L836084		5.37	3470	2.95	10.95	0.20	0.75	0.05	0.087	0.23	64.8	84.2	1.58	545	401
L836085		1.18	573	2.10	5.98	0.11	0.45	0.02	0.048	0.11	71.5	30.5	0.58	592	57.5
L836086		0.66	2240	4.85	10.30	0.26	1.09	0.03	0.121	0.06	59.4	46.0	1.46	870	21.9
L836087		3.56	4730	4.76	4.21	0.15	0.11	0.12	0.060	0.57	11.6	4.2	0.63	510	258
L836088		3.46	4440	2.23	7.16	0.14	0.49	0.06	0.117	0.11	98.1	23.9	0.70	490	1030
L836089		0.71	777	2.23	5.51	0.17	0.74	0.02	0.036	0.09	16.7	13.3	0.55	326	34.4
L836090		3.29	61.1	1.24	3.87	0.11	0.62	<0.01	0.005	0.14	23.9	11.8	0.22	125	13.10
L836091		8.43	170.5	2.81	8.54	0.23	0.44	0.02	0.018	1.45	34.9	58.0	2.56	336	6.90
L836092		2.76	201	1.55	4.19	0.11	0.58	0.01	0.007	0.21	24.7	18.9	0.33	149	7.08
L836093		2.60	96.5	1.06	5.21	0.12	0.50	0.01	0.008	0.11	30.9	17.2	0.29	191	11.90
L836094		2.10	2000	4.41	5.39	0.12	0.14	0.11	0.081	0.54	21.7	7.8	0.88	383	172.5
L836095		1.85	83.1	1.68	6.08	0.14	0.64	0.02	0.013	0.14	45.6	32.1	0.56	414	8.88
L836096		1.30	1980	2.43	6.00	0.18	0.77	0.02	0.068	0.16	59.4	38.5	0.70	698	30.5
L836097		1.56	223	1.78	3.22	0.11	1.08	0.02	0.024	0.12	23.7	11.1	0.30	488	22.7
L836098		1.81	271	1.94	3.58	0.12	0.79	0.02	0.027	0.16	27.8	13.5	0.34	515	18.40
L836099		6.65	390	2.38	7.49	0.28	0.40	0.05	0.036	0.06	25.6	15.3	0.69	774	31.6
L836100		0.17	3.9	0.58	0.19	0.10	0.04	0.05	0.005	0.02	0.8	1.0	12.90	219	0.58
L836101		3.13	689	4.05	6.96	0.22	0.42	0.11	0.068	0.07	31.3	19.4	0.52	1000	78.7
L836102		6.18	437	5.26	7.47	0.27	0.37	0.04	0.113	0.07	35.1	21.5	0.44	1200	17.00



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
L836067		0.72	95.9	1000	3.2	3.5	0.041	1.45	0.25	3.4	6.1	0.7	67.1	0.01	0.21
L836068		0.67	99.4	950	3.7	3.5	0.032	1.19	0.35	3.3	5.5	0.5	93.7	0.01	0.13
L836069		0.52	67.1	1100	7.9	3.4	0.019	0.68	0.42	4.9	4.2	0.6	83.9	0.01	0.07
L836070		0.51	100.0	940	46.6	3.8	0.119	1.64	0.79	6.3	8.1	0.8	120.5	0.01	0.38
L836071		0.45	56.7	1370	459	10.9	0.120	0.81	0.24	6.0	5.4	0.7	120.5	0.01	1.25
L836072		0.49	35.6	920	27.0	6.7	0.489	0.60	0.24	5.6	2.2	0.9	165.0	<0.01	0.20
L836073		0.55	76.6	1120	5.4	4.3	0.030	1.12	0.40	3.2	4.4	0.6	102.0	<0.01	0.12
L836074		0.72	23.8	1380	13.9	6.2	0.022	0.71	0.24	3.9	2.0	0.6	137.5	<0.01	0.12
L836075		0.82	8.3	1440	10.9	6.1	0.011	0.29	0.17	2.0	1.1	0.7	163.5	0.01	0.03
L836076		0.97	7.2	1140	10.5	7.3	0.005	0.15	0.17	1.9	0.8	0.7	173.5	0.01	0.03
L836077		0.09	1.9	190	1.2	0.6	<0.001	<0.01	<0.05	0.3	<0.2	<0.2	48.2	<0.01	0.01
L836078		0.81	9.1	970	19.9	7.2	0.012	0.17	0.17	2.1	0.8	0.6	192.0	<0.01	0.06
L836079		0.79	16.0	1360	21.3	7.2	0.005	0.21	0.18	3.0	1.4	0.8	229	0.01	0.08
L836080		0.95	11.8	1410	31.2	8.8	0.005	0.22	0.15	2.8	1.0	0.7	238	0.02	0.09
L836081		1.09	8.6	1480	8.9	5.0	0.007	0.32	0.28	2.2	1.2	0.7	296	0.02	0.03
L836082		0.96	91.2	1230	5.7	6.4	0.023	0.75	0.23	2.5	3.2	0.8	162.0	0.01	0.14
L836083		0.66	42.0	1920	9.6	39.8	0.014	0.96	0.20	5.6	3.8	0.8	408	0.01	0.10
L836084		0.51	46.3	1760	23.8	24.6	0.100	0.91	0.24	8.4	4.2	0.9	271	0.01	0.29
L836085		0.17	14.8	1200	12.7	9.6	0.014	0.17	0.16	5.8	0.8	0.6	213	<0.01	0.17
L836086		0.32	50.0	1160	9.1	5.3	0.019	0.45	0.21	10.6	1.5	1.3	203	0.01	0.19
L836087		0.22	23.9	1050	39.6	33.5	0.653	2.58	6.06	7.3	8.4	2.2	32.7	0.01	1.05
L836088		0.29	25.1	1400	34.2	9.8	0.311	0.76	0.19	5.1	3.7	0.8	425	0.01	0.30
L836089		0.45	40.3	990	4.8	5.0	0.011	0.23	0.34	3.3	0.8	0.7	993	0.01	0.04
L836090		1.08	7.7	1430	6.1	8.6	0.007	0.14	0.13	1.1	0.4	0.6	1130	0.02	0.01
L836091		0.54	95.1	2670	2.8	92.5	0.005	0.24	0.10	5.1	0.8	0.8	415	0.01	0.04
L836092		0.99	9.0	1700	6.0	14.9	0.006	0.26	0.12	1.2	0.7	0.6	857	0.02	0.01
L836093		0.86	5.3	1440	17.3	7.9	0.005	0.17	0.15	1.7	0.6	0.7	394	0.02	0.06
L836094		0.15	18.4	750	24.0	33.6	0.044	2.07	6.57	7.0	3.3	1.9	71.8	0.01	0.30
L836095		0.49	7.4	1370	36.3	11.5	0.006	0.15	0.23	2.2	0.5	0.6	258	0.01	0.10
L836096		0.33	31.1	1130	74.4	16.8	0.013	0.40	0.22	4.5	3.5	1.0	141.5	0.01	0.72
L836097		0.39	40.4	700	12.4	7.7	0.023	0.31	0.42	2.5	1.5	0.6	124.0	0.01	0.06
L836098		0.38	34.3	850	17.9	10.0	0.016	0.30	0.50	2.7	1.3	0.6	154.5	0.01	0.08
L836099		0.76	127.5	1290	9.7	3.8	0.028	0.74	0.35	5.1	3.9	0.8	672	0.03	0.21
L836100		0.15	0.7	190	1.4	1.0	0.006	0.26	<0.05	0.4	0.2	<0.2	49.4	0.01	0.03
L836101		0.60	114.5	1510	84.0	5.0	0.037	0.93	0.31	6.0	3.3	1.1	221	0.02	0.43
L836102		1.06	68.0	1290	26.0	5.6	0.011	0.40	0.23	8.1	1.4	2.1	199.5	0.04	0.17



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
L836067		0.169	0.07	2.58	89	0.77	12.50	29	21.4
L836068		0.135	0.08	3.08	83	0.90	12.75	22	25.4
L836069		0.168	0.08	2.90	123	0.57	12.35	44	27.8
L836070		0.164	0.17	3.26	148	0.82	11.85	95	25.4
L836071		0.155	0.08	4.02	124	0.99	12.60	213	22.5
L836072		0.104	0.06	8.38	121	1.00	13.15	63	38.3
L836073		0.171	0.07	2.76	94	1.01	12.70	20	22.1
L836074		0.130	0.06	4.46	74	1.14	11.35	30	22.4
L836075		0.116	0.05	3.99	33	0.79	8.76	19	16.2
L836076		0.128	0.05	3.90	33	0.83	9.35	21	17.2
L836077		<0.005	<0.02	0.46	2	<0.05	0.83	16	<0.5
L836078		0.104	0.05	6.74	32	0.80	8.19	29	16.9
L836079		0.126	0.05	4.10	45	0.75	9.09	36	14.7
L836080		0.122	0.09	2.94	44	0.76	8.41	26	13.2
L836081		0.129	0.06	2.41	32	0.98	8.90	21	15.0
L836082		0.175	0.09	3.70	89	0.75	15.75	32	28.6
L836083		0.244	0.23	2.47	83	0.92	11.20	48	21.3
L836084		0.214	0.12	3.91	98	2.42	12.05	105	21.7
L836085		0.034	0.04	5.20	76	6.03	13.50	45	13.4
L836086		0.154	0.02	4.41	200	1.62	15.55	74	36.5
L836087		0.059	0.45	0.62	85	1.39	10.50	144	2.7
L836088		0.070	0.04	3.71	75	17.55	11.35	53	14.7
L836089		0.176	0.02	3.24	126	1.37	13.35	31	27.6
L836090		0.148	0.04	2.27	52	0.69	8.89	15	15.8
L836091		0.352	0.61	2.39	104	0.43	9.64	37	16.4
L836092		0.171	0.08	2.60	59	0.60	8.33	15	13.5
L836093		0.144	0.04	2.62	44	0.73	10.20	38	14.2
L836094		0.040	0.35	4.31	60	2.83	11.05	75	4.4
L836095		0.123	0.04	4.89	55	0.72	10.20	71	17.6
L836096		0.082	0.05	4.97	114	0.87	13.75	77	24.6
L836097		0.061	0.05	5.82	80	1.05	10.15	29	34.8
L836098		0.074	0.06	5.92	85	0.81	10.95	33	31.9
L836099		0.157	0.04	6.73	171	2.07	22.8	36	17.3
L836100		<0.005	0.06	0.48	2	0.06	0.93	17	<0.5
L836101		0.141	0.07	5.88	134	2.06	17.80	150	19.8
L836102		0.174	0.03	7.01	189	2.48	21.4	99	19.0



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CERTIFICATE OF ANALYSIS WH11219077

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41 ME- MS41	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g). Interference: Mo> 400ppm on ICP- MS Cd,ICP- AES results shown.



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CERTIFICATE WH11219076

Project: MARS

P.O. No.: Batch 8

This report is for 28 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 21- OCT- 2011.

The following have access to data associated with this certificate:

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS41	51 anal. aqua regia ICPMS	

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ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11219076

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm	ME- MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
L836103		6.09	0.34	1.56	9.5	<0.2	<10	690	1.03	0.49	5.61	0.14	45.8	7.6	45	4.45
L836104		5.59	1.01	1.28	7.1	<0.2	<10	880	0.87	3.24	2.93	0.16	50.8	7.4	30	6.25
L836105		5.71	0.36	1.47	22.0	<0.2	820	360	0.88	0.83	4.62	0.15	37.6	8.6	38	7.86
L836106		3.23	1.12	0.67	3.9	<0.2	20	150	1.16	3.27	3.68	0.23	52.9	4.9	21	1.45
L836107		2.50	0.01	0.03	<2	<0.2	<10	10	<0.05	0.02	19.50	0.06	1.33	1.1	<1	0.14
L836108		4.61	0.82	1.85	9.0	<0.2	<10	540	1.54	0.76	6.33	0.19	49.2	25.8	36	3.60
L836109		2.94	0.28	1.24	8.4	<0.2	260	50	0.92	0.46	5.45	0.18	27.8	6.2	47	3.24
L836110		6.19	0.27	0.86	9.0	<0.2	390	220	0.86	0.51	4.59	0.11	24.7	6.9	29	1.77
L836111		3.73	0.21	0.47	6.2	<0.2	10	1610	0.99	0.44	2.41	0.18	31.1	4.2	5	0.76
L836112		4.70	0.17	0.55	10.7	<0.2	<10	1610	1.01	0.97	2.41	0.18	27.9	5.3	4	0.87
L836113		3.15	0.10	0.78	3.8	<0.2	<10	1780	1.29	0.20	8.94	0.13	37.0	4.0	3	1.16
L836114		0.23	1.81	1.45	26.4	<0.2	<10	150	0.47	2.20	1.75	1.01	37.8	16.4	60	1.95
L836115		1.83	0.18	0.55	4.3	<0.2	<10	1100	0.87	0.43	4.85	0.14	21.0	5.5	2	0.93
L836116		5.08	0.17	0.51	2.6	<0.2	<10	1100	0.90	0.22	2.57	0.09	25.2	4.2	4	0.79
L836117		2.62	0.81	0.59	1.1	<0.2	<10	870	1.18	0.37	4.25	0.16	36.7	7.7	25	1.04
L836118		3.77	0.40	1.33	1.4	<0.2	<10	350	1.53	0.21	8.41	0.16	33.4	10.0	48	1.34
L836119		1.47	0.44	1.36	1.5	<0.2	<10	460	1.53	0.21	8.51	0.14	35.1	9.4	45	1.61
L836120		6.02	0.19	0.90	1.9	<0.2	<10	300	0.56	0.32	4.55	0.14	37.5	4.8	38	1.63
L836121		6.48	0.23	1.16	3.2	<0.2	<10	140	0.75	0.22	5.52	0.39	44.5	14.2	39	1.10
L836122		5.66	0.18	0.83	1.7	<0.2	<10	210	0.80	0.37	5.51	0.18	35.8	8.1	51	0.51
L836123		3.73	<0.01	0.03	<2	<0.2	<10	10	0.06	0.01	19.25	0.05	1.39	1.2	<1	0.13
L836124		5.95	1.03	0.82	1.6	<0.2	<10	750	1.44	2.20	5.39	0.64	44.7	12.6	33	1.36
L836125		5.23	0.31	0.62	2.5	<0.2	<10	950	1.37	0.58	3.34	0.17	54.9	8.0	10	1.12
L836126		5.78	0.38	0.44	11.5	<0.2	<10	770	1.04	1.13	3.92	0.20	52.9	4.6	7	0.70
L836127		0.23	1.97	1.54	27.3	0.2	<10	150	0.52	2.26	1.83	1.01	39.4	17.4	64	2.02
L836128		5.01	0.19	0.66	6.0	<0.2	<10	960	1.18	0.54	3.14	0.11	67.0	7.0	10	1.06
L836129		5.65	0.10	0.89	4.0	<0.2	<10	630	0.86	0.25	2.22	0.08	63.1	9.3	9	1.76
L836130		5.56	0.20	0.92	3.5	<0.2	<10	750	0.75	0.46	1.70	0.07	64.0	9.0	9	1.79



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CERTIFICATE OF ANALYSIS WH11219076

Sample Description	Method Analyte Units LOR	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	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
L836103		157.0	4.82	7.80	0.30	0.85	0.03	0.118	0.06	30.8	25.6	0.67	1380	5.53	0.27	0.91
L836104		384	3.04	5.71	0.17	0.73	<0.01	0.030	0.12	30.0	20.2	0.44	650	51.2	0.35	0.82
L836105		207	2.72	6.25	0.26	0.90	0.04	0.055	0.04	25.6	15.5	0.46	909	53.7	0.40	0.99
L836106		137.5	2.22	3.73	0.14	1.40	0.01	0.042	0.10	32.0	13.2	0.37	752	15.65	0.12	0.66
L836107		1.7	0.42	0.15	0.08	<0.02	0.01	<0.005	0.01	0.7	1.0	11.80	197	0.23	0.02	0.10
L836108		1265	4.53	6.43	0.22	0.86	0.08	0.073	0.64	36.3	53.6	2.91	1340	5.40	0.14	0.24
L836109		210	4.39	6.23	0.24	0.73	0.02	0.133	0.06	19.0	17.0	0.75	1290	11.55	0.18	0.81
L836110		86.1	3.23	4.78	0.19	0.91	0.01	0.091	0.07	15.2	13.4	0.67	898	18.00	0.13	1.05
L836111		94.9	1.06	2.07	0.07	0.41	0.02	0.016	0.12	16.3	5.0	0.18	321	25.5	0.12	0.26
L836112		181.0	1.13	1.99	0.06	0.41	0.03	0.012	0.11	15.3	6.5	0.10	271	50.3	0.11	0.21
L836113		150.5	1.29	2.10	0.07	0.27	0.04	0.021	0.15	19.6	12.1	0.19	880	60.5	0.06	0.07
L836114		1780	3.88	4.79	0.12	0.14	0.09	0.069	0.47	21.2	6.8	0.79	340	151.5	0.06	0.14
L836115		164.0	0.86	1.63	0.05	0.32	0.04	0.009	0.11	10.8	8.5	0.10	487	98.1	0.07	0.11
L836116		204	1.01	1.78	0.06	0.42	0.02	0.015	0.11	13.0	6.9	0.15	287	25.7	0.11	0.27
L836117		660	2.62	3.08	0.11	0.82	0.01	0.048	0.09	22.1	7.7	0.27	782	24.0	0.10	0.64
L836118		295	4.96	6.04	0.22	0.74	0.01	0.137	0.06	21.7	17.4	0.58	1690	13.10	0.08	0.66
L836119		332	4.86	6.16	0.22	0.60	0.01	0.137	0.07	21.9	16.0	0.53	1560	11.35	0.08	0.60
L836120		112.0	3.49	5.13	0.21	0.67	<0.01	0.079	0.06	23.5	10.8	0.37	987	9.05	0.12	1.22
L836121		411	4.76	7.05	0.26	0.97	0.08	0.123	0.10	33.6	21.0	0.99	1300	16.85	0.08	0.75
L836122		111.0	5.06	5.34	0.29	0.99	0.01	0.117	0.05	22.3	12.3	0.55	1280	11.00	0.07	0.93
L836123		2.6	0.46	0.18	0.12	<0.02	0.01	<0.005	0.01	0.7	1.0	11.60	203	0.11	0.01	0.11
L836124		520	3.72	4.29	0.14	0.71	0.01	0.045	0.18	25.0	20.1	0.63	907	77.7	0.09	0.32
L836125		196.0	1.75	2.83	0.10	0.73	0.03	0.023	0.14	27.8	10.5	0.36	426	8.68	0.10	0.27
L836126		166.5	1.38	2.03	0.10	0.63	0.01	0.030	0.13	25.9	5.9	0.20	552	12.95	0.09	0.14
L836127		1840	4.03	5.20	0.12	0.14	0.07	0.070	0.49	22.1	7.8	0.82	353	159.0	0.06	0.14
L836128		139.5	2.45	3.20	0.15	0.51	0.02	0.055	0.21	34.1	16.8	0.48	541	8.59	0.09	0.23
L836129		64.7	2.73	4.34	0.13	0.50	0.03	0.016	0.30	32.7	30.2	0.72	515	9.30	0.11	0.64
L836130		83.6	2.67	4.64	0.14	0.52	0.02	0.014	0.28	33.1	29.2	0.69	467	2.02	0.11	0.88



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CERTIFICATE OF ANALYSIS WH11219076

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
L836103		57.4	1210	17.9	4.7	0.002	0.09	0.21	8.6	0.7	2.2	216	0.02	0.08	4.6
L836104		22.6	1370	42.2	7.8	0.005	0.08	0.23	4.0	0.9	0.8	240	0.02	0.18	5.8
L836105		53.3	1240	21.6	3.5	0.024	0.23	0.35	7.2	1.6	1.2	347	0.02	0.16	6.5
L836106		23.3	620	80.4	6.3	0.003	0.03	0.19	3.8	0.7	0.9	86.8	0.01	0.23	25.6
L836107		4.4	160	1.2	0.8	<0.001	<0.01	<0.05	0.4	0.3	<0.2	46.3	<0.01	0.01	<0.2
L836108		77.7	1250	27.8	62.5	0.004	0.68	0.27	5.6	2.8	1.2	397	<0.01	0.11	4.1
L836109		50.2	1240	19.5	4.5	0.005	0.16	0.26	9.2	0.8	1.7	94.9	0.02	0.12	3.9
L836110		36.2	930	28.2	4.4	0.009	0.17	0.25	6.0	0.9	1.1	241	0.02	0.11	3.3
L836111		6.5	410	27.9	6.6	0.007	0.17	0.12	2.4	0.7	0.3	165.5	<0.01	0.07	5.5
L836112		6.0	340	11.6	6.2	0.033	0.22	0.22	1.9	1.3	0.2	159.5	<0.01	0.06	4.9
L836113		6.5	530	10.8	8.0	0.018	0.20	0.10	2.7	0.6	0.2	306	<0.01	0.04	8.1
L836114		16.1	660	21.6	31.4	0.041	1.79	6.34	6.6	3.1	1.7	68.0	<0.01	0.28	10.4
L836115		5.6	330	26.1	5.8	0.038	0.20	0.12	1.7	1.0	<0.2	185.0	<0.01	0.05	3.2
L836116		5.8	360	10.2	5.6	0.023	0.14	0.13	2.0	0.7	0.2	177.0	<0.01	0.01	4.1
L836117		30.5	720	6.5	5.7	0.011	0.17	0.15	5.2	1.3	0.7	261	0.01	0.04	5.5
L836118		73.5	1090	10.0	5.0	0.013	0.13	0.26	9.5	1.3	1.7	232	0.01	0.03	3.9
L836119		66.9	1100	12.3	5.7	0.014	0.14	0.28	9.2	1.3	1.6	269	0.02	0.03	4.0
L836120		30.5	1040	13.4	4.5	0.002	0.05	0.17	5.5	0.8	1.5	123.5	0.02	0.07	5.3
L836121		70.1	1190	6.6	10.4	0.015	0.32	0.27	6.7	1.7	1.8	171.0	0.01	0.13	3.7
L836122		50.2	1050	16.9	4.6	0.008	0.10	0.25	7.5	0.8	2.0	130.5	0.02	0.07	4.3
L836123		5.1	170	1.1	0.7	<0.001	0.01	<0.05	0.4	0.3	<0.2	47.1	<0.01	<0.01	<0.2
L836124		28.2	1180	212	14.4	0.019	0.38	0.48	6.7	1.7	0.6	4370	<0.01	0.34	4.4
L836125		10.6	760	38.9	9.2	0.003	0.16	0.34	4.5	0.8	0.5	1060	<0.01	0.06	13.4
L836126		9.3	600	35.0	8.1	0.008	0.23	0.48	3.7	0.8	0.6	237	<0.01	0.23	11.0
L836127		17.8	700	21.9	33.5	0.040	1.86	6.18	7.0	3.2	1.7	72.1	<0.01	0.29	11.0
L836128		10.9	1130	17.1	16.0	0.007	0.07	0.69	4.6	0.6	1.0	208	<0.01	0.18	7.4
L836129		6.6	1200	14.2	26.9	0.008	0.08	0.38	3.3	0.5	0.5	178.5	0.01	0.04	10.3
L836130		6.0	1230	45.0	25.1	0.003	0.09	0.45	2.6	0.7	0.5	161.5	0.01	0.07	9.5



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CERTIFICATE OF ANALYSIS WH11219076

Sample Description	Method Analyte Units LOR	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	Au- AA26 Au ppm 0.01
L836103		0.02	6.43	164	1.47	19.65	52	33.1	<0.01
L836104		0.03	4.10	120	1.08	13.00	46	25.5	0.01
L836105		0.04	6.14	135	1.63	19.70	41	34.7	<0.01
L836106		0.03	7.34	75	1.02	12.35	49	45.3	<0.01
L836107		<0.02	0.69	1	<0.05	0.83	14	<0.5	<0.01
L836108		0.27	4.86	65	1.24	11.25	98	29.6	0.04
L836109		0.02	5.98	133	2.76	21.9	52	31.9	0.01
L836110		0.03	3.82	96	2.15	16.20	41	33.2	<0.01
L836111		0.03	2.51	24	0.42	6.47	37	11.3	<0.01
L836112		0.04	5.48	18	0.31	5.14	32	13.1	<0.01
L836113		0.03	4.76	30	0.32	10.25	22	11.7	<0.01
L836114		0.32	3.96	54	2.55	10.55	63	3.9	0.22
L836115		0.04	3.84	13	0.22	5.59	21	10.7	<0.01
L836116		0.03	3.26	20	0.45	5.54	22	14.1	<0.01
L836117		0.02	7.11	95	1.10	13.40	46	28.3	0.01
L836118		0.02	6.15	181	1.90	22.0	61	30.8	<0.01
L836119		0.02	6.02	174	1.78	22.4	58	25.6	<0.01
L836120		0.02	4.29	137	1.63	17.70	40	27.1	<0.01
L836121		0.09	4.79	140	1.99	17.30	76	36.1	0.01
L836122		0.03	4.94	195	2.72	21.5	60	36.7	<0.01
L836123		<0.02	0.76	2	0.05	0.89	14	<0.5	<0.01
L836124		0.07	3.23	132	3.27	11.45	114	19.1	0.01
L836125		0.04	3.41	63	1.54	10.75	41	25.7	0.01
L836126		0.03	5.47	79	3.77	10.10	34	22.5	0.04
L836127		0.34	4.27	57	2.66	11.15	64	4.1	0.22
L836128		0.07	6.47	163	5.03	11.40	33	18.1	0.01
L836129		0.12	6.18	95	1.84	11.45	35	17.5	<0.01
L836130		0.12	4.38	89	1.19	11.20	33	18.6	0.01



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Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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P.O. No.: Batch 6

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 18- OCT- 2011.

The following have access to data associated with this certificate:

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME- MS41	51 anal. aqua regia ICPMS
Au- AA26	Ore Grade Au 50g FA AA finish AAS

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ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.01	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
J981880		4.45	0.02	0.12	0.77	11.9	<0.2	<10	300	0.63	0.18	2.43	0.06	53.2	8.4	16
J981881		2.28	0.01	0.09	1.12	6.5	<0.2	<10	160	0.36	0.23	1.45	0.04	43.3	13.1	29
J981882		4.74	0.01	0.11	1.47	12.2	<0.2	<10	140	0.37	0.30	0.92	0.03	28.8	13.3	55
J981883		5.34	0.03	0.12	1.43	7.6	<0.2	<10	130	0.32	0.29	0.99	0.03	26.8	14.0	69
J981884		2.73	<0.01	<0.01	0.03	<2	<0.2	<10	20	<0.05	0.03	19.65	0.06	1.50	1.5	1
J981885		5.74	0.09	0.18	1.64	4.8	<0.2	<10	120	0.27	0.31	1.20	0.02	25.6	16.3	64
J981886		5.81	0.01	0.11	1.48	3.6	<0.2	<10	130	0.22	0.37	0.80	0.04	24.2	14.3	68
J981887		5.65	0.03	0.15	1.01	2.1	<0.2	<10	90	0.29	0.22	1.18	0.04	35.3	19.2	37
J981888		6.30	0.04	0.20	1.19	1.5	<0.2	<10	90	0.48	0.18	1.62	0.04	40.3	17.6	40
J981889		5.38	0.02	0.07	0.91	2.9	<0.2	<10	140	0.20	0.21	1.10	0.05	25.0	15.2	47
J981890		5.49	0.04	0.08	1.18	2.4	<0.2	<10	110	0.22	0.32	0.93	0.04	24.0	19.6	58
J981891		6.27	0.01	0.06	1.26	1.8	<0.2	<10	140	0.22	0.38	0.71	0.05	26.5	14.9	58
J981892		5.92	0.01	0.07	1.05	2.1	<0.2	<10	120	0.22	0.38	0.82	0.05	23.1	15.6	52
J981893		3.61	0.01	0.07	1.04	2.1	<0.2	<10	130	0.31	0.53	0.70	0.04	21.7	18.1	56
J981894		1.20	0.02	0.11	0.89	2.7	<0.2	<10	110	0.30	0.50	0.70	0.05	21.1	18.6	51
J981895		0.22	0.23	1.94	1.40	27.2	<0.2	<10	120	0.47	2.29	1.77	1.01	35.5	17.8	62
J981896		3.62	0.03	0.17	1.09	6.5	<0.2	<10	120	0.82	0.32	1.60	0.07	38.9	16.6	27
J981897		4.41	0.01	0.64	0.98	186.5	<0.2	<10	140	0.75	1.02	0.74	0.13	26.2	15.3	51
J981898		5.35	0.01	0.67	1.02	79.9	<0.2	<10	70	0.87	1.83	1.57	0.32	27.6	18.8	51
J981899		3.43	0.03	0.96	0.50	12.7	<0.2	<10	530	0.83	0.77	1.97	0.50	59.6	7.4	10
L836051		3.64	0.01	0.34	0.49	15.7	<0.2	<10	400	1.08	0.50	1.33	0.16	23.6	8.6	9
L836052		0.23	0.48	2.15	0.99	112.0	0.5	<10	40	0.44	0.56	0.48	1.11	22.0	18.9	29
L836053		4.40	0.04	1.46	0.86	53.8	<0.2	<10	130	1.06	2.37	1.91	0.69	32.0	14.7	47
L836054		2.72	0.03	0.50	0.91	36.7	<0.2	<10	700	1.10	1.00	1.88	0.24	30.7	7.8	48
L836055		2.16	<0.01	<0.01	0.03	<2	<0.2	<10	10	0.05	0.02	18.95	0.06	1.20	1.3	1
L836056		4.37	0.02	1.94	0.91	6.4	<0.2	<10	230	1.34	6.35	2.22	0.35	130.0	6.6	12
L836057		2.91	0.03	0.32	0.45	8.0	<0.2	<10	850	0.94	0.38	1.67	0.21	47.3	4.8	11
L836058		5.44	0.03	0.16	0.50	5.5	<0.2	<10	590	0.85	0.23	1.35	0.12	25.9	5.3	9
L836059		5.81	0.01	0.10	0.46	1.7	<0.2	<10	430	0.57	0.16	0.69	0.08	21.7	5.5	8
L836060		5.35	0.03	0.17	0.53	7.2	<0.2	20	760	1.01	0.20	1.76	0.09	28.9	5.4	9
L836061		5.23	0.01	0.15	0.52	5.6	<0.2	200	650	1.04	0.24	1.27	0.10	29.7	4.7	10
L836062		2.64	0.02	0.12	0.63	7.4	<0.2	80	60	0.40	0.23	1.08	0.09	24.7	22.3	18
L836063		3.94	0.05	0.28	0.45	13.0	<0.2	260	60	0.44	0.38	1.14	0.11	20.1	16.8	18
L836064		6.24	0.19	1.31	0.91	21.9	0.2	400	220	0.89	0.42	1.92	0.82	24.2	13.1	29
L836065		6.13	0.11	0.22	0.41	4.9	0.2	100	60	0.32	0.35	1.04	0.09	18.05	15.8	16
L836066		5.66	0.14	0.42	0.61	33.7	<0.2	490	130	0.57	0.38	2.18	0.15	19.80	12.4	28



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
J981880		1.38	256	2.10	3.89	0.16	1.12	0.01	0.024	0.15	27.0	11.6	0.74	300	21.5
J981881		3.14	304	2.69	4.50	0.18	0.72	<0.01	0.006	0.40	21.6	10.8	0.79	146	9.12
J981882		6.41	195.5	3.05	6.46	0.17	0.62	<0.01	<0.005	1.00	14.4	14.7	1.31	106	12.50
J981883		6.16	147.5	3.03	6.65	0.18	0.59	<0.01	<0.005	0.94	13.8	15.2	1.32	98	9.71
J981884		0.16	1.5	0.45	0.16	0.17	<0.02	<0.01	<0.005	0.02	0.7	0.6	12.10	204	0.11
J981885		7.06	113.0	3.58	7.28	0.18	0.57	<0.01	<0.005	1.02	13.0	13.9	1.48	100	10.00
J981886		6.72	180.0	3.45	6.65	0.18	0.63	<0.01	<0.005	1.01	12.4	12.2	1.34	85	20.1
J981887		4.33	376	2.32	4.84	0.18	0.72	<0.01	0.008	0.40	17.4	11.9	0.82	80	23.5
J981888		4.60	677	2.43	5.59	0.21	0.87	<0.01	0.014	0.38	19.2	17.6	1.03	101	21.1
J981889		3.85	176.5	2.10	4.44	0.15	0.74	<0.01	0.005	0.57	10.6	12.2	0.91	78	54.7
J981890		5.27	202	3.38	5.91	0.18	0.66	<0.01	<0.005	0.75	12.2	14.2	1.15	94	21.9
J981891		5.15	198.5	3.05	5.95	0.19	0.83	<0.01	0.005	0.79	13.6	9.6	1.17	93	22.5
J981892		4.21	225	3.08	5.07	0.18	0.76	<0.01	<0.005	0.68	11.8	10.0	1.04	90	24.7
J981893		5.02	244	3.23	5.73	0.18	0.85	<0.01	<0.005	0.69	12.7	12.6	1.08	83	28.9
J981894		4.46	251	3.13	5.45	0.17	0.79	<0.01	<0.005	0.60	12.4	13.4	0.99	80	26.8
J981895		1.91	1780	3.93	5.01	0.14	0.15	0.09	0.066	0.49	21.0	7.9	0.83	350	152.5
J981896		6.30	370	2.64	6.22	0.18	1.06	<0.01	0.009	0.30	22.3	41.6	0.89	204	11.75
J981897		4.51	450	3.00	7.13	0.18	0.86	0.04	0.007	0.45	17.1	49.0	1.14	242	113.5
J981898		4.36	398	3.32	7.29	0.18	0.76	0.02	0.007	0.42	19.4	40.3	1.04	372	44.9
J981899		0.92	541	1.36	4.13	0.13	0.78	0.03	0.019	0.07	42.0	14.6	0.30	360	340
L836051		0.38	239	1.21	3.53	0.09	0.89	0.01	0.007	0.10	13.6	12.2	0.40	258	25.9
L836052		3.40	4450	4.46	4.23	0.18	0.10	0.11	0.050	0.57	12.0	4.5	0.63	500	248
L836053		2.35	692	2.39	7.42	0.18	0.86	0.02	0.021	0.26	22.2	48.2	1.00	414	191.0
L836054		1.80	367	1.54	8.04	0.16	0.85	0.02	0.021	0.11	20.3	59.0	1.10	475	372
L836055		0.12	2.6	0.44	0.19	0.09	<0.02	<0.01	<0.005	0.01	0.7	1.1	12.15	211	0.97
L836056		1.05	562	1.56	7.04	0.20	1.03	0.02	0.017	0.14	121.5	49.2	0.85	556	214
L836057		0.54	342	0.86	3.20	0.08	0.61	0.02	0.017	0.10	38.8	12.2	0.40	230	137.0
L836058		0.46	279	0.91	2.77	0.08	0.69	<0.01	0.011	0.11	15.5	7.5	0.24	179	87.9
L836059		0.53	124.5	0.93	2.31	0.07	0.64	<0.01	<0.005	0.09	13.2	5.6	0.17	84	66.2
L836060		0.55	281	1.12	3.40	0.09	0.61	0.01	0.014	0.10	17.0	9.0	0.26	192	64.8
L836061		0.45	180.5	1.06	4.25	0.11	0.58	<0.01	0.013	0.08	19.7	12.1	0.27	201	91.8
L836062		1.99	424	2.03	3.92	0.17	0.86	<0.01	0.009	0.05	18.0	16.2	0.20	148	90.9
L836063		0.16	633	2.05	3.90	0.16	0.75	<0.01	0.012	0.05	14.4	13.2	0.26	136	51.5
L836064		0.89	1675	2.10	7.50	0.24	0.83	0.01	0.036	0.06	17.3	33.7	0.53	370	209
L836065		0.37	606	2.12	2.82	0.14	0.72	<0.01	0.018	0.07	13.0	8.0	0.26	118	36.5
L836066		0.27	976	2.07	4.51	0.14	0.72	0.01	0.033	0.07	15.0	12.7	0.47	219	118.0



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
J981880		0.45	16.4	1110	4.2	16.4	0.007	0.58	0.70	4.9	1.4	0.8	214	0.01	0.03
J981881		0.68	29.0	1370	2.7	45.2	0.006	1.31	0.46	4.6	3.7	0.6	171.0	0.01	0.04
J981882		0.33	48.9	810	2.2	115.5	0.010	1.30	0.66	8.8	3.6	0.5	69.0	0.01	0.10
J981883		0.41	57.2	820	2.8	105.5	0.008	1.48	0.45	9.0	4.6	0.6	68.9	0.01	0.11
J981884		0.15	2.7	210	1.1	1.1	<0.001	0.03	<0.05	0.4	0.2	<0.2	50.1	<0.01	0.01
J981885		0.40	55.7	830	1.4	109.5	0.008	1.77	0.29	8.9	5.8	0.5	73.6	0.01	0.21
J981886		0.42	63.2	850	1.0	116.0	0.012	1.63	0.27	9.0	6.1	0.7	58.4	0.01	0.12
J981887		0.75	52.9	1170	1.8	50.4	0.009	1.21	0.31	5.0	5.6	0.9	101.5	0.01	0.11
J981888		0.86	52.3	1320	2.0	44.0	0.008	1.18	0.29	5.8	5.2	1.2	153.0	0.01	0.06
J981889		0.65	53.2	840	1.6	60.2	0.012	0.99	0.32	6.5	3.4	0.9	70.1	0.01	0.05
J981890		0.44	66.9	860	1.5	89.1	0.013	1.82	0.34	6.3	6.5	0.6	73.5	0.01	0.11
J981891		0.55	74.1	880	1.6	91.8	0.017	1.43	0.19	8.0	5.7	0.8	105.5	0.01	0.10
J981892		0.46	75.5	850	1.8	80.4	0.021	1.61	0.29	6.2	6.6	0.6	857	0.01	0.11
J981893		0.51	81.9	850	2.1	85.2	0.021	1.70	0.24	6.1	6.1	0.6	602	0.01	0.13
J981894		0.53	82.5	830	1.9	76.7	0.019	1.75	0.26	5.3	6.4	0.6	728	0.01	0.15
J981895		0.14	15.9	670	21.5	31.1	0.037	1.80	6.52	6.4	3.0	1.6	68.0	<0.01	0.33
J981896		0.73	34.9	1460	4.2	38.3	0.020	1.32	0.24	4.3	5.5	0.7	131.5	<0.01	0.08
J981897		0.40	76.0	830	4.5	62.9	0.023	1.11	1.03	6.3	6.8	0.6	61.0	0.01	0.14
J981898		0.42	88.4	820	24.4	59.2	0.031	1.63	0.69	8.0	7.0	0.6	72.1	0.01	0.40
J981899		0.30	16.0	690	52.5	8.7	0.037	0.45	0.24	3.0	1.8	0.5	113.0	<0.01	0.15
L836051		0.82	9.2	370	20.0	8.1	0.017	0.58	0.26	1.8	2.2	0.4	155.5	<0.01	0.10
L836052		0.23	21.4	1000	36.7	32.7	0.651	2.48	6.29	7.1	7.6	2.0	31.9	<0.01	1.13
L836053		0.68	73.3	840	121.0	38.6	0.060	1.14	0.58	7.7	4.8	0.8	77.3	0.01	0.45
L836054		0.63	42.4	910	14.4	15.4	0.129	0.40	0.57	7.9	2.8	0.8	125.5	0.01	0.08
L836055		0.10	1.2	190	1.3	0.8	<0.001	0.08	<0.05	0.5	0.2	<0.2	46.4	<0.01	0.01
L836056		0.51	7.0	1130	80.5	12.8	0.080	0.21	0.20	4.7	1.6	0.7	97.9	<0.01	0.50
L836057		0.56	7.5	350	9.8	7.4	0.106	0.26	0.20	2.2	1.2	0.4	148.0	<0.01	0.04
L836058		1.13	7.5	360	8.3	6.5	0.051	0.30	0.19	1.6	1.2	0.5	144.5	<0.01	0.04
L836059		1.20	6.1	360	6.8	4.7	0.058	0.45	0.15	0.9	1.6	0.4	102.5	<0.01	0.03
L836060		0.75	9.1	350	7.0	6.3	0.035	0.38	0.17	1.9	1.5	0.4	168.0	<0.01	0.04
L836061		0.94	7.8	380	9.8	5.5	0.067	0.30	0.17	1.7	1.2	0.4	129.0	<0.01	0.03
L836062		1.03	113.0	1110	2.8	2.5	0.069	1.07	0.31	2.5	4.4	0.7	89.0	0.01	0.08
L836063		0.71	106.0	960	4.3	3.2	0.036	1.16	0.32	2.6	5.1	0.4	54.9	0.01	0.13
L836064		0.49	101.0	950	9.2	5.9	0.141	0.72	0.26	4.7	4.3	0.6	73.8	0.01	0.09
L836065		0.70	83.0	980	3.0	3.4	0.028	1.23	0.20	2.5	5.2	0.6	50.3	0.01	0.16
L836066		0.43	81.0	930	6.1	3.9	0.068	0.94	0.45	5.1	4.3	0.6	105.5	<0.01	0.20



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CERTIFICATE OF ANALYSIS WH11216571

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti	Ti	U	V	W	Y	Zn
		%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.02	0.05	1	0.05	0.05	2
J981880		0.114	0.19	2.55	70	0.62	8.77	16
J981881		0.190	0.42	2.19	96	0.59	10.65	13
J981882		0.239	1.27	2.53	184	0.52	10.65	12
J981883		0.229	1.20	2.33	181	0.61	10.15	14
J981884		<0.005	<0.02	0.50	2	<0.05	0.88	17
J981885		0.257	1.47	2.23	190	0.62	9.92	11
J981886		0.258	1.33	2.83	223	0.64	10.25	13
J981887		0.221	0.48	3.27	136	0.70	11.75	9
J981888		0.253	0.43	3.39	141	0.86	13.20	10
J981889		0.237	0.64	4.11	185	0.75	12.90	8
J981890		0.242	1.00	2.63	209	0.95	10.65	12
J981891		0.277	1.06	2.67	249	1.23	14.85	14
J981892		0.242	0.75	2.71	225	1.12	12.90	12
J981893		0.257	0.84	3.15	240	1.04	14.05	13
J981894		0.232	0.71	2.85	214	0.94	12.90	12
J981895		0.037	0.32	4.09	55	2.41	10.40	65
J981896		0.156	0.17	3.09	72	0.81	10.15	17
J981897		0.221	0.92	3.10	250	1.03	12.70	34
J981898		0.211	0.74	3.53	262	1.65	14.95	53
J981899		0.032	0.06	5.62	51	0.66	9.04	78
L836051		0.070	0.07	2.59	24	0.51	5.19	37
L836052		0.057	0.47	0.61	81	1.25	10.35	136
L836053		0.236	0.32	4.40	215	10.75	17.55	105
L836054		0.264	0.32	3.57	206	12.25	18.25	40
L836055		<0.005	<0.02	0.53	2	0.06	0.87	15
L836056		0.132	0.05	3.12	63	1.07	10.55	57
L836057		0.049	0.05	6.35	29	1.15	5.17	26
L836058		0.073	0.06	5.02	20	0.64	4.93	15
L836059		0.068	0.04	2.16	11	0.58	4.07	9
L836060		0.046	0.05	12.25	23	0.58	5.94	16
L836061		0.074	0.04	3.03	32	0.73	5.62	20
L836062		0.205	0.05	3.30	101	0.65	15.60	14
L836063		0.164	0.07	2.94	112	0.56	13.35	19
L836064		0.181	0.07	4.15	135	0.85	14.70	95
L836065		0.165	0.05	2.36	80	0.64	12.30	15
L836066		0.168	0.12	2.35	114	1.47	12.10	27



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CERTIFICATE OF ANALYSIS WH11216571

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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CERTIFICATE WH11216570

Project: MARS

P.O. No.: Batch 5

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 17- OCT- 2011.

The following have access to data associated with this certificate:

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME- MS41	51 anal. aqua regia ICPMS
Au- AA26	Ore Grade Au 50g FA AA finish AAS

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ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11216570

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.01	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
J981844		0.24	0.19	1.73	1.37	25.0	0.2	<10	140	0.44	2.08	1.76	0.96	38.4	15.9	57
J981845		5.92	0.03	0.34	0.70	8.3	<0.2	<10	130	0.62	0.27	1.11	0.06	27.2	10.0	38
J981846		5.68	0.02	0.20	0.57	4.1	<0.2	<10	230	0.79	0.25	1.29	0.07	39.1	9.4	5
J981847		4.92	0.01	0.10	0.50	2.8	<0.2	<10	270	0.73	0.35	1.27	0.05	39.2	9.9	5
J981848		4.96	0.02	0.13	0.57	2.0	<0.2	10	200	0.77	0.27	1.50	0.07	39.6	12.9	5
J981849		3.83	<0.01	0.03	0.82	1.8	<0.2	<10	70	0.39	0.21	1.35	0.03	19.85	11.7	92
J981850		5.22	<0.01	0.06	1.50	2.3	<0.2	<10	120	0.26	0.54	0.88	0.03	22.0	14.5	85
J981851		1.96	<0.01	0.08	1.50	1.9	<0.2	<10	100	0.26	0.49	0.80	0.04	24.3	15.2	74
J981852		4.69	0.01	0.12	1.27	3.0	<0.2	<10	110	0.31	0.50	1.09	0.05	24.2	15.1	76
J981853		4.46	0.01	0.18	1.27	4.5	<0.2	<10	120	0.44	0.76	1.15	0.09	24.7	16.4	91
J981854		5.89	<0.01	0.03	2.38	1.6	<0.2	<10	190	0.41	0.41	1.32	0.05	24.5	15.4	149
J981855		2.76	<0.01	<0.01	0.04	<2	<0.2	<10	10	<0.05	0.02	18.45	0.07	1.37	0.9	1
J981856		5.72	<0.01	0.05	1.46	1.6	<0.2	<10	140	0.41	0.34	0.89	0.05	32.8	12.6	87
J981857		5.39	0.01	0.04	1.48	2.2	<0.2	<10	120	0.31	0.46	0.80	0.03	25.4	12.6	91
J981858		5.92	<0.01	0.03	2.12	0.8	<0.2	<10	160	0.29	0.69	0.74	0.04	24.1	15.7	103
J981859		5.31	<0.01	0.03	2.01	1.3	<0.2	<10	150	0.24	1.01	0.73	0.05	24.0	15.8	105
J981860		6.13	0.02	0.04	2.46	1.9	<0.2	<10	130	0.32	0.69	1.05	0.54	19.95	17.7	119
J981861		2.63	<0.01	0.04	2.51	1.9	<0.2	<10	140	0.30	0.66	0.97	0.45	20.3	17.3	128
J981862		5.46	<0.01	0.03	1.82	1.2	<0.2	<10	130	0.29	0.48	0.69	0.09	21.4	20.3	141
J981863		5.35	<0.01	0.03	1.57	1.9	<0.2	<10	140	0.33	0.51	0.62	0.09	22.0	14.7	85
J981864		5.51	<0.01	0.03	2.18	5.3	<0.2	<10	140	0.26	0.70	1.03	0.89	19.35	18.9	132
J981865		5.62	<0.01	0.03	1.97	3.4	<0.2	<10	160	0.34	0.72	0.79	0.17	19.00	17.2	134
J981866		6.10	<0.01	0.05	2.07	3.4	<0.2	<10	150	0.35	0.74	1.22	1.03	18.75	16.8	124
J981867		5.69	0.02	0.03	1.83	12.8	<0.2	<10	140	0.30	0.78	0.80	0.07	15.60	13.9	110
J981868		5.80	<0.01	0.10	1.69	3.9	<0.2	<10	120	0.31	0.52	0.89	0.06	24.1	17.4	82
J981869		5.89	0.01	0.06	1.86	2.7	<0.2	<10	160	0.34	0.73	0.76	0.03	23.4	14.9	79
J981870		2.10	<0.01	<0.01	0.04	<2	<0.2	<10	30	<0.05	0.02	20.2	0.06	1.59	1.0	1
J981871		5.64	0.06	0.09	1.56	3.8	<0.2	<10	150	0.29	0.48	0.98	0.03	28.0	15.3	62
J981872		2.93	<0.01	0.03	1.48	1.4	<0.2	<10	150	0.20	0.22	0.55	0.02	22.3	13.7	80
J981873		3.80	<0.01	0.05	1.13	13.1	<0.2	<10	130	0.27	0.23	0.73	0.02	24.9	11.7	75
J981874		0.24	0.20	2.09	1.46	25.9	0.3	<10	120	0.40	2.23	1.85	0.92	36.3	15.8	63
J981875		3.67	<0.01	0.06	0.47	2.9	<0.2	<10	240	0.76	0.11	1.28	0.04	54.8	3.8	8
J981876		5.75	<0.01	0.06	0.49	1.5	<0.2	<10	610	0.52	0.11	1.10	0.06	54.2	4.1	10
J981877		5.79	<0.01	0.07	0.48	1.5	<0.2	<10	730	0.66	0.12	1.13	0.08	59.0	4.8	9
J981878		5.52	<0.01	0.06	0.44	1.5	<0.2	<10	850	0.65	0.13	1.26	0.08	62.8	5.0	10
J981879		5.68	<0.01	0.19	0.35	1.5	<0.2	<10	420	0.65	0.10	1.72	0.06	57.5	3.4	8



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
J981844		1.96	1705	4.02	4.73	0.09	0.14	0.08	0.071	0.47	21.6	6.9	0.81	350	142.0
J981845		1.40	563	1.39	4.46	0.12	0.77	<0.01	0.014	0.16	13.6	11.6	0.47	85	21.0
J981846		0.64	274	1.22	3.17	0.10	0.97	<0.01	0.012	0.07	22.0	6.4	0.26	109	5.38
J981847		0.47	111.0	1.19	2.65	0.09	0.92	<0.01	0.010	0.09	21.1	5.5	0.18	117	3.51
J981848		0.72	202	1.23	2.89	0.10	1.13	<0.01	0.011	0.10	21.5	6.9	0.20	113	4.56
J981849		3.16	66.3	1.59	4.02	0.11	0.54	<0.01	0.011	0.40	11.6	22.3	1.01	145	6.80
J981850		5.56	111.0	3.18	6.87	0.13	0.53	0.01	0.009	0.80	11.9	15.7	1.34	111	6.23
J981851		5.20	131.0	3.07	6.91	0.13	0.51	<0.01	0.006	0.74	13.2	11.3	1.19	99	7.04
J981852		4.70	126.5	2.80	6.54	0.13	0.61	<0.01	0.007	0.72	13.0	28.2	1.24	205	12.00
J981853		5.36	111.5	3.08	5.95	0.13	0.57	<0.01	0.006	0.80	13.9	37.3	1.18	286	19.75
J981854		9.30	59.7	3.26	9.75	0.13	0.46	<0.01	0.011	1.22	13.4	21.2	2.28	221	6.32
J981855		0.33	1.7	0.41	0.17	0.05	<0.02	<0.01	<0.005	0.03	0.6	0.9	11.50	185	0.10
J981856		6.03	76.9	2.52	7.69	0.13	0.75	<0.01	0.008	0.83	18.1	16.1	1.45	138	4.45
J981857		6.00	84.6	2.94	7.34	0.13	0.62	<0.01	0.007	0.81	14.0	13.7	1.30	124	7.03
J981858		8.76	86.7	3.70	9.44	0.15	0.57	<0.01	0.008	1.21	12.7	18.7	1.86	146	9.07
J981859		7.78	97.9	3.79	9.01	0.15	0.53	<0.01	0.008	1.12	12.7	20.5	1.74	138	9.61
J981860		7.33	137.0	4.07	9.68	0.16	0.51	<0.01	0.025	1.06	10.9	22.8	2.01	133	10.60
J981861		8.16	131.5	4.12	10.10	0.15	0.54	<0.01	0.025	1.17	11.1	24.5	2.15	133	11.20
J981862		7.55	153.5	3.94	9.12	0.14	0.51	<0.01	0.008	0.97	11.5	21.5	1.87	84	8.64
J981863		6.79	98.8	3.23	8.54	0.14	0.52	<0.01	0.007	0.94	11.9	21.4	1.65	86	10.70
J981864		8.31	93.6	3.90	8.60	0.15	0.46	<0.01	0.026	1.07	10.8	22.8	1.96	126	12.10
J981865		7.33	94.0	3.94	8.86	0.14	0.53	<0.01	0.012	0.98	10.2	24.0	1.86	103	10.45
J981866		11.35	113.5	4.26	9.93	0.15	0.52	<0.01	0.027	1.13	10.1	34.5	2.36	159	11.85
J981867		5.61	89.8	3.55	8.33	0.14	0.43	<0.01	0.011	0.80	8.0	22.4	1.56	96	13.05
J981868		5.22	194.5	4.28	8.61	0.16	0.59	<0.01	0.007	0.75	13.0	19.9	1.53	90	15.95
J981869		6.68	139.0	3.97	9.23	0.17	0.63	<0.01	0.005	0.92	12.8	20.5	1.71	84	18.75
J981870		0.43	2.6	0.47	0.20	<0.05	<0.02	0.01	<0.005	0.02	0.8	0.9	12.60	206	0.19
J981871		6.86	117.5	3.60	8.48	0.13	0.59	<0.01	<0.005	0.94	16.1	17.0	1.57	123	18.00
J981872		6.52	108.5	3.05	8.16	0.12	0.53	<0.01	<0.005	0.94	11.9	13.7	1.46	75	12.55
J981873		4.75	131.0	2.62	6.54	0.11	0.67	<0.01	<0.005	0.66	13.7	14.4	1.22	76	22.0
J981874		1.90	1805	4.23	5.25	0.09	0.15	0.10	0.072	0.51	20.1	7.1	0.87	353	149.5
J981875		0.50	16.3	1.20	3.93	0.10	1.84	0.03	0.013	0.16	28.8	8.3	0.35	133	5.32
J981876		0.45	45.4	1.42	4.00	0.11	1.77	0.03	0.009	0.17	29.0	9.9	0.40	152	1.66
J981877		0.56	23.0	1.50	4.41	0.11	1.81	0.03	0.011	0.17	32.7	10.6	0.39	164	3.14
J981878		0.79	17.0	1.56	3.83	0.11	1.64	0.02	0.014	0.17	33.1	9.1	0.39	197	6.98
J981879		0.49	20.7	1.20	2.40	0.11	1.35	0.02	0.017	0.13	29.2	6.6	0.42	224	5.13



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CERTIFICATE OF ANALYSIS WH11216570

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
J981844		0.13	16.0	660	20.7	30.5	0.036	1.69	6.08	6.6	2.9	1.8	65.4	<0.01	0.29
J981845		0.67	42.6	750	3.5	19.7	0.005	0.63	0.66	2.8	2.8	0.8	79.2	<0.01	0.09
J981846		0.92	7.0	680	8.4	4.3	<0.001	0.62	0.33	1.6	2.0	0.5	112.0	0.01	0.08
J981847		0.71	10.5	690	6.7	4.8	0.001	0.54	0.41	1.7	1.9	0.5	122.0	<0.01	0.09
J981848		0.93	10.1	690	7.4	7.0	0.002	0.68	0.48	1.4	2.1	0.6	125.5	0.01	0.07
J981849		0.31	102.0	670	1.7	51.3	0.004	0.49	0.49	3.2	1.9	0.6	71.5	<0.01	0.05
J981850		0.27	107.0	780	1.6	97.7	0.004	1.33	0.28	5.7	3.9	0.8	68.4	<0.01	0.11
J981851		0.27	99.6	790	1.4	97.4	0.005	1.34	0.30	5.3	4.9	0.7	71.2	<0.01	0.16
J981852		0.32	101.5	840	4.6	92.6	0.008	1.27	0.36	5.2	4.7	0.7	63.2	<0.01	0.24
J981853		0.36	116.5	770	6.3	94.8	0.023	1.54	0.42	5.5	5.7	0.7	64.1	<0.01	0.39
J981854		0.25	162.5	780	0.6	115.0	0.005	0.66	0.33	7.0	2.6	0.7	113.0	0.01	0.12
J981855		0.10	2.5	160	1.1	1.7	<0.001	0.01	<0.05	0.4	0.2	<0.2	42.5	<0.01	<0.01
J981856		0.26	97.6	750	2.8	94.9	0.003	0.73	0.31	5.2	2.6	0.7	63.0	<0.01	0.11
J981857		0.27	115.0	710	1.4	106.0	0.005	1.04	0.37	5.8	3.4	0.6	67.0	<0.01	0.13
J981858		0.26	119.0	790	0.7	144.0	0.007	1.13	0.25	7.8	4.4	0.7	78.8	<0.01	0.14
J981859		0.29	126.0	750	1.1	137.0	0.007	1.34	0.34	9.0	5.6	0.8	76.5	<0.01	0.17
J981860		0.25	141.0	830	0.8	110.5	0.007	1.76	0.33	7.7	7.7	0.7	114.5	<0.01	0.19
J981861		0.27	137.0	840	0.8	121.5	0.008	1.71	0.32	8.7	7.4	0.7	104.0	<0.01	0.18
J981862		0.34	149.5	770	0.9	110.0	0.005	1.71	0.20	6.8	6.8	0.8	71.0	<0.01	0.15
J981863		0.34	101.5	720	1.5	102.5	0.007	1.31	0.21	8.6	5.8	0.7	67.8	<0.01	0.13
J981864		0.24	195.0	800	0.9	112.0	0.006	1.60	0.40	7.3	7.5	0.7	111.5	<0.01	0.14
J981865		0.26	152.0	800	1.0	97.0	0.006	1.62	0.29	8.6	5.1	0.6	92.1	<0.01	0.14
J981866		0.28	139.0	710	3.5	125.0	0.007	1.69	0.34	9.8	4.6	0.6	99.5	<0.01	0.19
J981867		0.28	121.5	710	1.1	75.9	0.009	1.41	0.30	8.8	4.2	0.3	91.2	<0.01	0.22
J981868		0.36	97.2	820	1.6	77.4	0.011	2.12	0.35	10.0	6.1	0.5	79.6	<0.01	0.24
J981869		0.38	77.1	850	1.1	90.6	0.013	1.80	0.29	14.4	5.8	0.3	85.6	0.01	0.27
J981870		0.15	2.7	150	1.3	2.1	<0.001	0.02	<0.05	0.4	0.3	<0.2	52.9	<0.01	<0.01
J981871		0.40	71.2	820	3.1	110.5	0.009	1.55	0.28	10.1	5.4	0.5	78.9	0.01	0.17
J981872		0.36	81.7	780	0.8	110.5	0.007	1.05	0.14	7.7	4.4	0.5	63.0	<0.01	0.09
J981873		0.39	69.9	740	1.4	83.7	0.015	1.04	0.30	6.6	4.3	0.6	63.9	<0.01	0.09
J981874		0.13	16.8	690	21.2	31.8	0.035	1.79	5.84	6.8	3.0	1.8	68.3	<0.01	0.27
J981875		0.58	5.8	640	8.2	8.3	0.001	0.10	0.20	2.2	<0.2	1.3	77.7	<0.01	0.01
J981876		0.45	5.5	640	8.0	8.0	0.001	0.08	0.18	1.9	<0.2	1.3	84.3	<0.01	<0.01
J981877		0.35	6.0	630	9.8	8.9	0.002	0.06	0.20	2.1	<0.2	1.4	92.1	<0.01	<0.01
J981878		0.38	6.5	630	9.9	10.0	0.004	0.09	0.22	2.7	<0.2	1.3	125.5	<0.01	0.01
J981879		0.31	5.3	660	6.8	7.1	0.001	0.04	0.27	3.0	<0.2	1.1	160.5	<0.01	<0.01



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CERTIFICATE OF ANALYSIS WH11216570

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti	Ti	U	V	W	Y	Zn
		%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.02	0.05	1	0.05	0.05	2
								0.5
J981844		0.035	0.30	3.69	53	2.64	9.87	62
J981845		0.157	0.22	2.57	77	0.70	9.45	11
J981846		0.084	0.07	2.72	22	0.40	5.64	13
J981847		0.077	0.08	2.63	20	0.31	5.89	9
J981848		0.090	0.10	2.93	22	0.36	6.09	12
J981849		0.189	0.54	1.73	83	0.47	8.43	11
J981850		0.248	1.20	1.31	139	0.95	9.45	14
J981851		0.237	1.06	1.69	130	0.78	9.57	14
J981852		0.224	1.00	2.04	131	0.71	10.15	23
J981853		0.218	1.19	1.97	137	0.67	10.20	36
J981854		0.260	2.15	1.58	148	0.67	8.63	23
J981855		<0.005	0.02	0.61	3	0.07	0.85	15
J981856		0.215	1.33	2.07	90	0.74	7.45	19
J981857		0.216	1.32	1.88	126	0.90	8.36	16
J981858		0.289	2.09	1.99	202	0.66	9.78	25
J981859		0.275	2.01	2.26	187	1.05	10.70	23
J981860		0.256	1.80	2.05	196	0.77	9.10	119
J981861		0.277	2.01	2.29	223	0.83	9.46	123
J981862		0.268	1.76	2.23	173	0.74	8.88	23
J981863		0.265	1.70	2.49	180	1.01	10.35	24
J981864		0.256	2.02	2.06	196	0.96	8.28	119
J981865		0.280	1.96	2.11	198	0.67	8.97	42
J981866		0.271	2.46	2.34	201	0.94	9.22	135
J981867		0.252	1.59	1.88	177	1.08	8.60	30
J981868		0.269	1.27	2.61	235	1.16	11.60	18
J981869		0.288	1.61	2.96	272	0.93	11.85	18
J981870		<0.005	0.02	0.37	4	<0.05	1.00	14
J981871		0.279	1.61	3.67	238	0.95	12.00	16
J981872		0.278	1.46	2.82	208	0.70	10.25	9
J981873		0.249	0.94	2.52	189	0.83	11.30	9
J981874		0.042	0.34	3.90	60	2.65	10.25	63
J981875		0.118	0.04	3.24	36	0.50	5.45	17
J981876		0.110	0.03	3.45	35	0.38	4.94	18
J981877		0.090	0.04	3.12	35	0.23	4.92	25
J981878		0.084	0.04	3.09	35	0.16	5.34	31
J981879		0.066	0.03	3.51	37	0.22	5.53	18
								37.9



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CERTIFICATE OF ANALYSIS WH11216570

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Account: F

CERTIFICATE WH11206142

Project: MARS

P.O. No.: Batch 4

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 12- OCT- 2011.

The following have access to data associated with this certificate:

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS41	51 anal. aqua regia ICPMS	

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ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11206142

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm	ME- MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
J981808		2.85	0.20	0.68	1.8	<0.2	<10	280	0.84	0.57	2.06	0.44	31.0	1.7	9	0.88
J981809		3.37	0.97	0.68	2.1	<0.2	<10	160	1.07	4.75	3.69	1.04	43.5	2.5	9	2.77
J981810		5.35	0.04	0.67	1.0	<0.2	<10	590	0.95	0.11	2.98	0.11	44.2	2.5	4	1.86
J981811		5.05	0.04	0.73	1.0	<0.2	<10	620	0.95	0.19	3.80	0.07	61.4	2.8	3	1.49
J981812		5.77	0.05	0.59	0.8	<0.2	<10	680	0.94	0.22	2.44	0.66	51.9	2.6	4	1.58
J981813		4.94	0.03	0.65	0.9	<0.2	<10	1310	0.91	0.12	1.67	0.04	45.1	2.3	4	1.49
J981814		6.05	0.03	0.72	3.8	<0.2	<10	660	0.96	0.11	1.83	0.04	48.7	2.1	4	0.83
J981815		5.88	0.04	0.79	4.1	<0.2	<10	670	0.88	0.15	1.79	0.09	55.5	2.4	5	0.84
J981816		2.60	0.05	0.77	3.7	<0.2	<10	530	0.75	0.17	1.50	0.11	54.7	2.1	4	0.73
J981817		3.49	0.10	0.57	2.4	<0.2	<10	380	0.68	0.25	1.39	0.10	35.9	1.0	4	0.40
J981818		5.55	0.08	0.59	3.0	<0.2	<10	460	0.62	0.27	1.66	0.11	32.9	1.0	5	0.53
J981819		6.04	0.73	0.61	1.7	<0.2	<10	320	0.78	1.66	2.11	0.26	44.4	1.6	6	0.45
J981820		3.44	0.01	0.03	<2	<0.2	<10	20	<0.05	0.03	20.0	0.46	1.26	1.3	1	0.18
J981821		5.97	0.25	0.86	2.2	<0.2	<10	460	1.00	0.48	2.08	0.13	51.6	2.4	10	0.74
J981822		6.04	0.23	0.77	1.6	<0.2	<10	430	0.78	0.42	1.58	0.20	43.4	2.2	10	0.57
J981823		5.62	0.38	0.89	1.4	<0.2	<10	440	0.70	0.44	2.16	0.14	40.9	2.1	7	0.66
J981824		0.22	2.02	1.01	107.0	0.4	<10	40	0.48	0.57	0.49	0.98	21.0	17.8	29	3.23
J981825		5.89	0.36	1.09	2.2	<0.2	<10	470	0.94	0.82	2.18	0.25	62.8	1.3	3	0.67
J981826		4.40	0.10	1.10	2.0	<0.2	<10	470	0.94	0.14	1.86	0.07	63.1	1.2	4	0.54
J981827		3.00	0.04	1.16	1.7	<0.2	<10	530	0.77	0.08	1.79	0.06	48.0	1.3	5	0.41
J981828		4.94	0.07	1.44	1.9	<0.2	<10	480	0.52	0.10	1.64	0.07	41.4	0.9	3	1.71
J981829		4.38	0.16	1.63	2.2	<0.2	<10	420	0.46	0.16	1.80	0.18	45.4	1.6	3	2.06
J981830		0.22	1.93	1.59	27.1	0.4	<10	130	0.39	2.26	1.89	0.98	37.2	17.3	65	1.93
J981831		2.32	0.06	1.36	2.3	<0.2	<10	630	0.80	0.09	2.18	0.09	44.1	1.1	3	2.68
J981832		5.11	0.21	1.35	3.0	<0.2	<10	720	0.85	0.16	2.02	0.07	58.0	1.5	3	2.82
J981833		2.07	0.20	1.35	2.9	<0.2	<10	820	0.95	0.15	2.01	0.08	59.5	1.6	2	2.96
J981834		5.93	0.11	1.40	3.0	<0.2	<10	1280	0.82	0.14	1.79	0.18	57.2	1.3	2	2.96
J981835		3.21	<0.01	0.03	<2	<0.2	<10	20	<0.05	0.02	19.70	0.06	1.18	0.9	<1	0.11
J981836		5.11	1.51	0.66	1.5	<0.2	<10	730	0.67	12.10	1.96	0.98	63.1	2.1	8	0.63
J981837		5.63	0.38	0.82	1.6	<0.2	<10	460	0.98	0.85	1.63	0.30	41.7	1.5	6	0.75
J981838		2.41	0.35	0.73	1.2	<0.2	<10	300	1.01	0.77	3.07	0.18	42.0	1.7	7	1.36
J981839		1.95	0.10	2.21	2.1	<0.2	<10	190	0.40	0.92	1.29	0.04	35.7	22.5	49	6.66
J981840		5.47	0.09	2.47	1.3	<0.2	<10	150	0.51	1.05	1.92	0.04	44.2	25.0	37	7.30
J981841		5.98	0.03	2.10	0.9	<0.2	<10	150	0.31	0.95	0.84	0.06	23.7	18.3	96	5.68
J981842		5.43	0.05	1.80	1.1	<0.2	<10	130	0.35	0.48	0.84	0.02	23.0	16.1	95	5.09
J981843		5.19	0.07	1.32	2.2	<0.2	<10	110	0.32	0.44	1.20	0.02	26.1	14.1	73	4.40



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CERTIFICATE OF ANALYSIS WH11206142

Sample Description	Method Analyte Units LOR	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	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
J981808		18.2	0.63	3.34	0.10	0.33	0.01	0.010	0.08	16.8	21.8	0.53	196	5.71	0.13	0.72
J981809		139.0	0.77	2.45	0.10	0.37	0.05	0.023	0.10	22.5	16.5	0.26	240	81.0	0.07	0.15
J981810		14.7	1.26	2.72	0.10	0.61	0.02	0.018	0.10	22.9	7.9	0.23	214	5.54	0.08	0.29
J981811		10.9	1.62	2.76	0.12	0.23	0.03	0.015	0.11	32.4	6.5	0.16	220	8.11	0.05	0.14
J981812		12.2	1.61	2.47	0.11	0.69	0.04	0.009	0.11	27.1	6.8	0.25	177	14.85	0.09	0.52
J981813		10.7	1.63	2.86	0.09	0.78	<0.01	0.007	0.10	25.2	7.8	0.34	129	15.00	0.09	0.81
J981814		6.8	1.58	3.51	0.12	0.74	<0.01	0.007	0.10	27.4	9.4	0.31	149	7.55	0.09	0.93
J981815		10.4	1.72	3.77	0.14	0.89	0.01	0.009	0.12	29.9	13.5	0.33	194	14.85	0.11	1.35
J981816		9.8	1.49	3.58	0.14	0.86	<0.01	0.007	0.10	29.9	10.2	0.26	168	2.42	0.10	1.38
J981817		5.8	0.38	3.16	0.09	0.56	<0.01	0.006	0.05	22.1	11.3	0.21	117	6.76	0.12	1.00
J981818		56.3	0.40	2.55	0.09	0.65	0.01	0.006	0.06	17.2	13.5	0.22	149	10.60	0.12	0.89
J981819		81.3	0.59	3.33	0.12	0.43	0.01	0.007	0.06	24.8	16.5	0.23	202	15.20	0.11	1.04
J981820		1.9	0.44	0.20	0.10	<0.02	0.02	<0.005	0.02	0.6	1.2	12.45	204	0.15	<0.01	0.15
J981821		122.0	1.05	4.15	0.15	0.61	<0.01	0.009	0.10	30.0	25.0	0.40	213	4.36	0.13	1.22
J981822		91.1	0.88	3.83	0.11	0.35	<0.01	0.006	0.08	22.9	23.4	0.37	175	12.75	0.12	1.03
J981823		238	0.91	3.56	0.10	0.33	<0.01	0.010	0.08	22.1	23.0	0.35	207	2.66	0.12	0.73
J981824		4450	4.59	3.98	0.13	0.08	0.10	0.054	0.56	10.6	5.7	0.64	502	251	0.02	0.23
J981825		48.2	0.49	4.53	0.13	0.53	<0.01	0.008	0.08	40.3	21.3	0.38	167	5.70	0.14	0.72
J981826		79.8	0.57	4.76	0.16	0.56	<0.01	0.006	0.07	39.2	17.2	0.25	113	7.26	0.17	1.07
J981827		24.9	0.88	4.81	0.16	0.42	<0.01	<0.005	0.07	25.6	15.5	0.23	98	9.39	0.20	1.19
J981828		44.5	0.77	4.54	0.12	0.54	<0.01	<0.005	0.05	25.0	12.0	0.17	79	12.20	0.36	0.95
J981829		85.1	1.67	4.85	0.10	0.41	<0.01	<0.005	0.06	28.9	11.7	0.22	116	22.9	0.47	0.93
J981830		1940	4.17	5.24	0.09	0.13	0.10	0.076	0.53	21.8	7.1	0.85	373	159.5	0.06	0.11
J981831		30.8	0.43	4.20	0.09	0.38	0.01	0.005	0.06	29.0	14.9	0.30	119	16.00	0.26	0.67
J981832		258	0.65	4.83	0.12	0.42	0.01	0.009	0.08	43.3	25.7	0.51	154	19.65	0.24	0.69
J981833		273	0.70	4.85	0.12	0.43	<0.01	0.008	0.08	44.2	28.1	0.51	156	19.55	0.23	0.70
J981834		86.4	0.81	5.18	0.12	0.47	0.01	0.005	0.07	42.4	21.8	0.38	138	21.1	0.24	0.68
J981835		1.9	0.44	0.09	<0.05	<0.02	0.01	0.005	0.01	0.6	0.7	12.50	208	0.14	0.01	0.08
J981836		144.0	0.67	3.09	0.13	0.43	0.02	0.009	0.12	44.8	44.2	0.40	188	32.4	0.13	0.77
J981837		221	0.50	4.00	0.09	0.31	0.01	0.007	0.10	25.7	38.1	0.37	149	7.77	0.13	0.74
J981838		219	0.59	3.26	0.07	0.29	0.01	0.010	0.09	23.7	21.3	0.35	232	4.08	0.11	0.63
J981839		165.0	3.68	9.13	0.16	0.68	<0.01	0.015	0.65	19.1	23.7	1.32	148	8.47	0.34	0.65
J981840		233	3.89	8.77	0.18	0.76	<0.01	0.024	0.45	25.0	26.0	1.42	173	4.92	0.41	0.47
J981841		121.0	3.80	9.99	0.17	0.51	<0.01	0.008	0.87	13.8	24.8	1.45	101	11.10	0.26	0.55
J981842		117.0	3.49	8.91	0.15	0.53	<0.01	0.005	0.76	13.4	22.9	1.43	82	9.71	0.22	0.56
J981843		118.5	2.88	7.24	0.13	0.60	<0.01	0.005	0.62	16.2	24.3	1.18	121	14.55	0.19	0.45



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
J981808		4.0	930	19.8	6.2	0.003	0.01	0.17	2.5	<0.2	0.5	139.0	<0.01	0.05	5.7
J981809		4.1	980	72.0	8.6	0.034	0.04	0.23	5.1	0.6	0.5	249	<0.01	0.99	8.1
J981810		2.6	770	6.0	6.0	0.009	0.01	0.13	3.2	0.2	0.4	191.0	<0.01	0.01	7.9
J981811		1.7	770	6.8	5.1	0.008	0.02	0.12	3.4	0.4	0.3	236	<0.01	0.03	10.0
J981812		1.7	740	5.8	5.3	0.009	0.08	0.15	2.5	0.2	0.4	213	<0.01	0.05	10.0
J981813		1.6	750	6.3	4.8	0.011	0.05	0.13	2.0	<0.2	0.4	291	<0.01	0.04	9.9
J981814		1.7	810	6.0	4.4	0.005	0.07	0.18	1.8	0.2	0.5	312	0.01	0.03	10.3
J981815		2.0	930	8.5	5.4	0.015	0.09	0.25	1.8	0.2	0.6	557	0.01	0.03	11.5
J981816		1.9	930	8.5	4.2	0.002	0.10	0.29	1.3	0.2	0.6	429	0.01	0.04	10.2
J981817		1.9	730	12.4	2.4	0.003	0.02	0.19	1.2	<0.2	0.4	404	<0.01	0.03	6.9
J981818		1.8	840	9.6	3.1	0.004	0.03	0.23	1.4	<0.2	0.5	582	<0.01	0.04	6.9
J981819		2.3	980	46.4	3.8	0.003	0.03	0.19	1.6	0.3	0.6	309	0.01	0.21	8.2
J981820		1.3	200	1.5	0.9	<0.001	<0.01	<0.05	0.4	<0.2	<0.2	45.1	<0.01	0.01	<0.2
J981821		3.7	1060	20.8	5.7	0.003	0.05	0.22	2.1	0.2	0.6	478	0.02	0.09	9.4
J981822		3.5	1180	28.0	5.6	0.008	0.02	0.20	1.3	0.2	0.6	443	0.01	0.04	7.3
J981823		3.3	1200	20.3	5.4	0.002	0.03	0.17	1.7	0.4	0.5	732	0.01	0.04	6.1
J981824		21.6	1030	36.9	33.5	0.635	2.49	6.12	7.8	7.7	1.9	33.2	<0.01	0.94	1.9
J981825		2.5	1370	40.4	4.9	0.002	0.02	0.23	1.9	0.3	0.6	507	0.01	0.07	7.5
J981826		2.8	1130	7.8	4.6	0.003	0.01	0.23	1.3	0.2	0.7	480	0.02	0.03	8.2
J981827		3.5	1210	6.2	3.9	0.004	0.01	0.23	1.3	0.2	0.7	571	0.02	0.02	8.1
J981828		3.2	1660	8.8	3.6	0.003	0.01	0.13	1.8	0.3	0.5	660	0.02	0.02	5.7
J981829		5.7	1870	9.3	5.0	0.002	0.03	0.14	2.1	0.4	0.5	804	0.02	0.04	6.1
J981830		17.2	740	21.6	34.8	0.042	1.92	6.51	6.7	3.3	1.9	73.0	<0.01	0.33	10.1
J981831		2.2	1700	8.9	3.8	0.002	0.02	0.13	2.7	0.3	0.5	805	0.01	0.03	6.4
J981832		2.8	1720	7.6	5.4	0.004	0.05	0.15	2.8	0.5	0.5	762	0.01	0.03	5.8
J981833		2.8	1740	7.5	6.3	0.004	0.05	0.15	2.7	0.5	0.5	822	0.01	0.03	5.8
J981834		3.1	1640	5.6	4.9	0.005	0.05	0.15	2.1	0.4	0.6	505	0.01	0.05	5.5
J981835		1.5	180	1.1	0.6	<0.001	<0.01	<0.05	0.3	<0.2	<0.2	53.0	<0.01	<0.01	<0.2
J981836		3.6	1080	127.5	11.9	0.015	0.03	0.25	1.9	0.8	0.6	569	<0.01	5.18	6.5
J981837		2.6	1000	24.0	9.6	0.002	0.02	0.18	1.5	0.6	0.6	465	<0.01	0.11	6.2
J981838		4.0	1060	18.2	7.3	0.002	0.04	0.14	2.8	0.5	0.6	364	<0.01	0.17	7.6
J981839		56.7	1430	2.7	61.0	0.005	1.52	0.27	10.4	5.7	0.8	176.0	0.01	0.38	5.1
J981840		36.7	1890	4.3	46.5	0.002	1.84	0.31	8.4	6.2	1.0	265	0.01	0.61	3.8
J981841		101.5	890	1.3	91.5	0.009	1.73	0.36	8.2	8.3	0.8	89.0	0.01	0.24	5.2
J981842		112.5	890	1.2	86.4	0.007	1.60	0.34	6.9	5.5	0.7	70.8	0.01	0.20	4.9
J981843		86.5	830	1.6	77.2	0.009	1.32	0.30	5.9	4.7	0.7	57.9	0.01	0.19	4.4



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Sample Description	Method Analyte Units LOR	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	Au- AA26 Au ppm 0.01
J981808		0.02	2.36	36	0.56	8.32	81	8.0	<0.01
J981809		0.03	2.70	46	0.96	9.94	140	16.8	0.02
J981810		0.02	3.17	42	0.37	10.00	25	27.3	<0.01
J981811		0.02	3.64	40	0.42	13.05	16	15.3	0.01
J981812		0.02	4.64	43	1.56	10.30	77	25.7	<0.01
J981813		0.02	4.29	46	2.12	8.61	12	28.6	<0.01
J981814		0.04	5.06	46	0.77	9.13	12	27.8	<0.01
J981815		0.03	5.74	52	0.66	10.65	20	36.7	<0.01
J981816		0.03	4.70	44	0.53	10.35	21	38.2	<0.01
J981817		0.02	2.14	22	0.63	6.67	17	20.1	<0.01
J981818		0.03	2.24	22	0.52	7.32	18	21.3	<0.01
J981819		0.02	3.63	27	1.11	8.54	38	11.3	0.01
J981820		<0.02	0.56	1	<0.05	0.81	62	<0.5	<0.01
J981821		0.02	4.11	46	1.11	10.10	24	22.8	<0.01
J981822		0.02	3.24	37	0.89	9.20	34	10.2	0.01
J981823		0.02	2.63	40	0.92	9.07	22	10.7	<0.01
J981824		0.45	0.64	82	1.44	10.80	143	2.6	0.46
J981825		0.02	2.93	32	1.21	11.05	35	18.5	<0.01
J981826		0.02	3.18	38	1.38	11.05	14	20.6	<0.01
J981827		0.02	3.12	52	1.73	11.45	12	19.3	<0.01
J981828		0.02	1.51	39	2.58	8.07	14	13.8	<0.01
J981829		0.03	1.48	81	3.47	8.36	30	11.1	<0.01
J981830		0.33	4.26	60	2.79	10.75	68	4.2	0.22
J981831		0.02	1.41	25	3.69	8.07	17	10.4	<0.01
J981832		0.03	1.40	36	4.93	8.28	18	11.7	<0.01
J981833		0.03	1.40	38	4.85	8.33	18	12.0	<0.01
J981834		0.03	1.55	45	4.40	8.18	16	13.0	<0.01
J981835		<0.02	0.40	1	0.05	0.79	17	<0.5	<0.01
J981836		0.05	2.58	34	1.87	7.82	133	11.6	0.01
J981837		0.04	3.55	30	1.00	6.79	36	6.7	<0.01
J981838		0.02	2.52	39	0.69	8.33	30	5.4	<0.01
J981839		0.87	2.14	159	1.73	11.65	21	23.8	0.01
J981840		0.39	1.34	104	0.91	10.75	20	28.2	<0.01
J981841		1.25	2.23	188	0.78	11.10	31	17.6	<0.01
J981842		1.04	1.95	167	1.12	11.20	17	17.7	<0.01
J981843		0.79	1.94	150	0.98	11.45	19	19.5	<0.01



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Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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P.O. No.: Batch 2

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10- OCT- 2011.

The following have access to data associated with this certificate:

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS41	51 anal. aqua regia ICPMS	

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ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm	ME- MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
J981736		5.58	0.12	1.32	12.5	<0.2	<10	680	0.68	0.15	1.46	0.37	37.1	5.9	41	2.26
J981737		5.46	0.11	1.38	3.7	<0.2	10	790	0.84	0.19	1.58	0.05	43.5	2.3	7	3.32
J981738		1.99	0.07	0.98	3.9	<0.2	<10	330	1.08	0.12	1.79	0.05	37.8	1.2	8	0.65
J981739		4.18	0.17	1.17	6.9	<0.2	50	250	0.35	0.10	1.00	0.07	21.7	10.4	50	3.05
J981740		5.13	0.16	1.34	4.6	<0.2	<10	270	0.24	0.13	0.68	0.10	18.60	14.8	58	4.13
J981741		5.97	0.07	1.44	8.5	<0.2	<10	240	0.34	0.13	0.92	0.33	20.7	12.9	64	4.69
J981742		5.42	0.12	1.71	4.9	<0.2	<10	270	0.28	0.22	0.67	1.14	18.90	15.6	77	5.26
J981743		4.20	0.07	1.53	7.5	<0.2	<10	290	0.27	0.13	0.59	0.12	17.70	12.7	80	4.73
J981744		0.27	2.11	0.99	107.5	0.5	<10	40	0.38	0.51	0.47	1.07	20.8	17.5	29	3.02
J981745		1.88	0.06	0.99	11.5	<0.2	<10	230	0.48	0.09	0.66	0.07	27.4	7.8	38	3.01
J981746		5.40	0.08	1.11	4.3	<0.2	<10	420	1.15	0.26	2.39	0.04	42.4	2.2	7	1.27
J981747		5.47	0.06	1.45	4.8	<0.2	<10	610	1.26	0.08	1.95	0.03	40.1	1.7	8	2.43
J981748		5.32	0.07	1.21	4.2	<0.2	<10	510	1.15	0.13	1.67	0.05	38.9	1.4	4	2.98
J981749		5.57	0.05	1.23	3.5	<0.2	<10	730	0.90	0.27	1.56	0.03	37.4	1.7	5	2.64
J981750		5.33	0.06	1.03	4.3	<0.2	<10	570	1.06	0.27	1.72	0.03	42.4	1.3	5	1.06
J981751		5.30	0.05	0.94	3.5	<0.2	<10	600	0.96	0.10	1.73	0.03	44.2	1.5	5	1.47
J981752		5.13	0.05	0.83	3.8	<0.2	<10	330	0.89	0.06	1.53	0.04	47.1	1.1	5	1.66
J981753		5.07	0.09	0.92	2.5	<0.2	<10	410	0.69	0.19	1.29	0.05	49.3	1.5	4	2.81
J981754		0.28	1.97	1.56	26.0	<0.2	<10	200	0.40	2.16	1.83	1.08	35.8	16.6	66	1.98
J981755		5.56	0.12	0.89	3.2	<0.2	<10	470	0.70	0.82	1.18	0.05	52.1	1.5	6	5.13
J981756		4.79	0.23	0.81	3.4	<0.2	<10	480	1.01	0.82	1.62	0.11	56.7	4.4	6	2.14
J981757		3.45	0.18	0.91	3.6	<0.2	<10	340	1.13	0.36	1.84	0.07	47.5	4.8	12	2.12
J981758		2.15	0.14	1.19	38.6	<0.2	<10	570	0.51	0.31	1.26	0.10	22.7	13.1	53	4.34
J981759		4.80	0.21	1.51	23.6	<0.2	<10	340	0.47	0.40	0.95	0.33	20.5	16.6	61	5.65
J981760		2.39	<0.01	0.02	<2	<0.2	<10	10	<0.05	0.02	19.70	0.06	1.05	1.1	1	0.09
J981761		4.41	0.12	1.65	10.9	<0.2	<10	260	0.49	0.19	1.28	0.33	22.5	16.0	61	6.54
J981762		3.50	0.05	1.04	3.9	<0.2	<10	600	0.88	0.06	1.44	0.04	61.5	1.4	4	1.80
J981763		5.23	0.06	1.05	2.1	<0.2	30	770	0.68	0.08	1.21	0.05	60.8	1.9	6	2.92
J981764		3.27	0.09	1.02	2.4	<0.2	10	740	0.86	0.49	1.33	0.04	58.8	1.5	4	1.51
J981765		5.55	0.13	0.93	2.6	<0.2	<10	640	1.31	0.41	1.60	0.09	60.3	1.8	5	0.72
J981766		5.56	0.92	0.77	4.2	<0.2	<10	380	1.08	1.97	1.69	0.21	66.9	3.1	5	0.80
J981767		5.12	0.16	0.95	2.5	<0.2	<10	770	1.07	1.39	1.48	0.09	57.5	1.5	4	0.74
J981768		2.21	0.01	0.02	<2	<0.2	<10	10	<0.05	0.13	19.30	0.06	1.05	1.0	<1	0.08
J981769		4.21	0.08	0.87	2.2	<0.2	<10	920	1.16	0.41	1.95	0.10	59.2	1.9	5	0.98
J981770		1.93	0.11	0.85	2.3	<0.2	<10	770	1.13	0.44	1.85	0.11	57.7	1.9	4	0.95
J981771		4.61	0.14	0.89	2.7	<0.2	<10	740	0.84	0.75	1.44	0.09	55.7	2.8	5	0.94



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CERTIFICATE OF ANALYSIS WH11206141

Sample Description	Method Analyte Units LOR	ME- MS41 Cu ppm	ME- MS41 Fe %	ME- MS41 Ga ppm	ME- MS41 Ge ppm	ME- MS41 Hf ppm	ME- MS41 Hg ppm	ME- MS41 In ppm	ME- MS41 K %	ME- MS41 La ppm	ME- MS41 Li ppm	ME- MS41 Mg %	ME- MS41 Mn ppm	ME- MS41 Mo ppm	ME- MS41 Na %	ME- MS41 Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
J981736		102.5	2.18	5.80	0.14	0.29	<0.01	0.018	0.19	20.6	18.8	0.56	216	5.23	0.19	0.55
J981737		35.9	1.03	5.19	0.14	0.35	0.01	0.006	0.08	23.8	16.4	0.36	200	2.17	0.25	0.79
J981738		19.9	0.56	5.20	0.16	0.39	<0.01	0.009	0.08	20.6	18.6	0.43	186	1.27	0.18	0.69
J981739		322	2.29	5.90	0.13	0.28	0.01	0.006	0.53	11.6	19.1	0.83	137	26.3	0.18	0.68
J981740		380	3.12	6.51	0.15	0.28	0.01	0.008	0.83	9.9	22.3	1.09	162	25.1	0.17	0.61
J981741		164.5	3.30	7.44	0.15	0.30	<0.01	0.010	0.90	11.3	24.8	1.23	206	27.1	0.15	0.56
J981742		206	3.39	8.16	0.16	0.28	<0.01	0.014	1.03	10.1	26.0	1.38	203	26.5	0.20	0.57
J981743		141.5	2.86	7.57	0.14	0.28	<0.01	0.005	0.92	9.5	31.0	1.26	168	14.80	0.17	0.60
J981744		4350	4.37	3.87	0.15	0.09	0.12	0.050	0.54	10.5	3.9	0.61	502	251	0.03	0.24
J981745		153.5	1.90	5.12	0.12	0.43	<0.01	<0.005	0.51	15.2	22.8	0.85	161	23.5	0.15	0.73
J981746		81.8	0.85	5.27	0.15	0.42	<0.01	0.012	0.09	24.7	17.0	0.35	227	6.74	0.21	0.92
J981747		23.9	0.64	6.43	0.17	0.34	<0.01	0.006	0.09	22.8	20.6	0.33	153	1.23	0.22	0.87
J981748		48.1	0.66	5.11	0.16	0.31	<0.01	0.006	0.08	22.1	20.9	0.31	154	1.55	0.22	0.82
J981749		25.8	0.86	4.94	0.13	0.29	<0.01	<0.005	0.08	21.4	14.1	0.23	124	1.50	0.21	0.72
J981750		16.2	0.62	4.76	0.14	0.35	<0.01	0.005	0.09	23.5	14.2	0.25	145	1.91	0.20	0.96
J981751		28.0	0.61	4.43	0.14	0.36	<0.01	0.008	0.08	24.9	16.5	0.29	150	1.44	0.18	0.85
J981752		24.2	0.48	3.88	0.11	0.39	<0.01	0.005	0.07	25.8	14.6	0.26	131	1.38	0.19	0.94
J981753		16.6	0.68	3.81	0.13	0.41	<0.01	<0.005	0.08	27.1	14.1	0.18	116	1.65	0.22	1.47
J981754		1840	4.05	5.11	0.12	0.14	0.09	0.074	0.53	20.2	7.0	0.83	353	160.0	0.06	0.16
J981755		17.5	0.68	3.67	0.13	0.46	<0.01	<0.005	0.06	28.8	16.0	0.23	136	2.67	0.22	1.41
J981756		144.5	1.58	4.08	0.13	0.51	0.01	0.012	0.09	31.8	16.4	0.41	281	7.17	0.11	0.74
J981757		89.9	1.59	5.03	0.14	0.65	0.01	0.016	0.15	27.3	29.0	0.67	340	7.51	0.11	0.68
J981758		218	2.44	6.67	0.13	0.43	0.01	0.005	0.51	12.5	31.1	1.02	176	36.7	0.12	0.62
J981759		435	3.35	7.86	0.17	0.39	0.01	0.011	0.72	11.5	30.0	1.33	199	113.5	0.12	0.57
J981760		2.0	0.47	0.12	0.12	<0.02	<0.01	<0.005	0.01	0.5	0.6	12.25	208	0.32	0.01	0.11
J981761		230	3.35	8.41	0.14	0.36	<0.01	0.011	0.83	12.7	32.6	1.49	218	32.4	0.13	0.38
J981762		17.0	0.72	4.66	0.16	1.00	<0.01	0.005	0.08	36.0	10.1	0.28	83	3.70	0.21	1.43
J981763		22.8	1.88	4.76	0.15	1.08	<0.01	<0.005	0.18	34.2	11.3	0.16	89	6.14	0.22	1.68
J981764		20.9	1.12	4.81	0.16	0.98	<0.01	<0.005	0.12	32.7	16.4	0.20	113	2.51	0.23	1.44
J981765		79.4	0.75	5.70	0.16	0.95	<0.01	0.010	0.08	36.3	21.9	0.36	170	1.58	0.19	0.92
J981766		205	0.92	5.12	0.17	1.17	0.01	0.012	0.10	40.9	34.4	0.51	244	15.35	0.16	0.89
J981767		23.4	1.01	4.89	0.15	0.94	<0.01	0.008	0.12	32.5	15.2	0.27	139	2.18	0.21	1.12
J981768		2.0	0.48	0.10	0.12	<0.02	<0.01	<0.005	0.01	0.5	0.6	12.00	215	0.07	0.01	0.13
J981769		20.1	1.19	4.87	0.14	0.98	<0.01	0.011	0.12	32.8	19.5	0.34	176	4.79	0.18	1.01
J981770		22.5	1.08	5.03	0.15	1.06	<0.01	0.013	0.11	31.3	19.2	0.36	172	3.19	0.18	1.10
J981771		38.6	1.87	4.81	0.15	0.99	<0.01	0.006	0.15	30.0	13.0	0.26	126	6.09	0.14	1.16



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CERTIFICATE OF ANALYSIS WH11206141

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
J981736		33.4	1330	25.9	15.1	0.004	0.13	0.33	1.9	0.8	0.5	202	0.01	0.03	4.9
J981737		4.7	1220	9.9	6.4	0.002	0.08	0.23	1.6	0.3	0.6	398	0.01	0.02	7.6
J981738		4.8	1220	9.1	6.7	0.001	0.04	0.31	1.9	0.3	0.7	147.5	0.01	0.01	6.4
J981739		59.6	910	3.8	47.4	0.015	0.72	0.23	4.3	2.7	0.5	109.0	0.01	0.09	4.9
J981740		72.1	840	3.6	78.4	0.020	1.04	0.26	6.4	3.8	0.3	66.4	0.01	0.08	5.7
J981741		67.5	810	2.2	81.6	0.021	1.08	0.20	7.7	5.4	0.3	53.4	0.01	0.10	6.2
J981742		80.8	820	3.3	87.4	0.018	1.34	0.24	10.2	7.5	0.2	97.3	0.01	0.10	6.0
J981743		67.9	720	2.5	81.4	0.015	0.87	0.13	8.4	5.3	0.2	76.5	0.01	0.10	5.6
J981744		21.0	1020	38.5	33.5	0.644	2.42	6.13	6.8	8.3	2.0	33.2	<0.01	0.99	1.7
J981745		30.9	640	3.8	48.1	0.024	0.45	0.29	4.7	2.1	0.4	58.6	0.01	0.05	6.5
J981746		5.3	1080	8.6	6.6	0.009	0.07	0.20	2.2	0.5	0.6	272	0.02	0.05	8.1
J981747		4.3	1150	8.2	6.3	0.001	0.02	0.24	2.2	0.2	0.5	313	0.02	0.01	7.4
J981748		3.2	1160	8.6	5.2	0.001	0.02	0.16	2.0	0.2	0.5	289	0.01	0.01	5.3
J981749		2.7	1100	7.7	5.0	0.001	0.03	0.20	1.5	0.2	0.5	284	0.01	0.07	5.2
J981750		2.8	1100	10.0	5.6	<0.001	0.02	0.19	1.8	0.2	0.6	262	0.01	0.02	7.6
J981751		2.8	1070	6.7	5.2	0.001	0.02	0.27	1.8	0.2	0.6	276	0.01	0.02	7.7
J981752		2.9	1120	6.3	4.5	<0.001	0.01	0.17	1.4	0.2	0.6	226	0.01	0.01	8.8
J981753		2.6	1130	8.4	5.5	0.001	0.01	0.26	0.9	0.4	0.8	387	0.02	0.03	10.0
J981754		15.9	710	20.6	33.4	0.039	1.86	6.75	5.7	2.9	1.9	71.0	<0.01	0.28	10.4
J981755		3.2	1110	11.2	4.9	0.001	0.02	0.20	1.0	0.5	0.8	327	0.02	0.32	10.1
J981756		4.3	1090	10.6	7.9	0.027	0.16	0.24	2.2	0.8	0.7	166.5	0.01	0.15	9.7
J981757		8.8	1060	16.7	11.0	0.008	0.06	0.18	4.0	0.7	0.7	187.0	0.01	0.09	6.1
J981758		53.0	830	2.8	51.9	0.030	0.66	0.54	7.2	4.1	0.3	325	0.01	0.46	5.1
J981759		69.0	830	2.3	65.1	0.060	1.12	0.33	8.9	5.0	0.4	202	0.01	0.24	5.1
J981760		2.4	180	1.1	0.7	<0.001	0.02	<0.05	0.2	0.2	<0.2	47.6	<0.01	<0.01	<0.2
J981761		65.2	850	2.1	67.7	0.018	1.00	0.29	13.9	4.3	0.3	81.6	0.01	0.12	5.5
J981762		4.2	990	5.2	5.9	0.003	0.04	0.28	1.7	0.5	0.7	308	0.03	0.01	11.9
J981763		3.2	960	5.7	8.3	0.003	0.02	0.20	1.2	0.4	0.7	270	0.03	0.01	12.2
J981764		2.9	960	9.2	6.2	0.001	0.02	0.26	1.5	0.4	0.7	282	0.03	0.12	13.1
J981765		3.2	870	11.3	5.6	0.001	0.03	0.22	2.0	0.5	0.8	158.5	0.01	0.04	13.4
J981766		5.5	1020	58.1	10.3	0.001	0.04	0.33	2.7	0.7	0.7	148.0	0.01	0.33	12.4
J981767		3.9	860	12.3	6.4	0.001	0.03	0.23	1.9	0.5	0.8	191.0	0.02	0.15	12.4
J981768		1.8	180	1.3	0.5	<0.001	0.04	<0.05	0.2	0.3	<0.2	46.0	<0.01	<0.01	<0.2
J981769		3.5	910	10.3	7.0	0.003	0.03	0.20	2.8	0.4	0.8	173.5	0.01	0.08	12.8
J981770		3.2	880	12.4	7.3	0.001	0.03	0.24	3.3	0.4	0.8	156.5	0.02	0.08	13.1
J981771		3.3	960	12.6	7.5	0.003	0.04	0.21	1.7	0.5	0.7	171.5	0.01	0.13	11.6



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Sample Description	Method Analyte Units LOR	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	Au- AA26 Au ppm 0.01
J981736		0.10	2.49	86	0.66	8.63	48	7.0	0.01
J981737		0.03	3.82	44	1.08	8.93	21	8.2	<0.01
J981738		0.03	3.91	44	0.90	8.83	16	8.5	<0.01
J981739		0.53	3.40	154	0.84	10.20	28	7.4	0.04
J981740		0.87	3.82	192	0.86	10.30	45	7.7	0.03
J981741		1.01	4.20	258	1.10	11.25	87	8.9	0.01
J981742		1.28	3.86	258	0.81	12.50	156	7.9	0.01
J981743		0.94	2.68	201	0.74	11.70	55	8.0	0.01
J981744		0.41	0.60	80	1.13	10.85	139	2.4	0.44
J981745		0.48	3.04	95	0.65	10.60	30	12.5	0.01
J981746		0.04	3.38	42	0.87	7.99	18	9.0	0.01
J981747		0.03	3.29	34	0.72	8.08	13	7.7	<0.01
J981748		0.02	2.50	29	0.49	7.17	12	5.9	<0.01
J981749		0.02	2.31	33	0.53	6.92	13	5.6	<0.01
J981750		0.02	2.74	32	0.68	8.20	11	7.9	0.01
J981751		0.02	3.04	31	0.61	7.86	11	8.3	<0.01
J981752		0.02	3.05	26	0.52	8.43	10	9.0	<0.01
J981753		0.03	4.30	29	0.46	9.12	15	10.1	<0.01
J981754		0.34	3.80	59	2.85	10.85	66	4.3	0.21
J981755		0.02	4.15	32	0.55	9.85	12	10.4	<0.01
J981756		0.04	4.89	54	0.50	10.05	25	13.7	0.01
J981757		0.06	2.74	71	0.88	10.20	25	18.7	0.01
J981758		0.68	4.28	214	0.80	12.30	28	14.3	0.01
J981759		1.07	3.41	239	1.08	12.80	75	12.8	0.02
J981760		<0.02	0.44	3	<0.05	0.84	16	<0.5	<0.01
J981761		1.17	3.32	278	0.94	15.30	81	11.8	0.02
J981762		0.04	4.28	45	0.70	10.15	9	44.0	<0.01
J981763		0.03	3.48	58	0.90	10.10	11	41.1	<0.01
J981764		0.02	3.50	46	0.84	9.65	12	32.6	<0.01
J981765		0.02	3.76	40	0.70	9.38	16	32.4	<0.01
J981766		0.04	5.62	53	1.22	11.00	36	46.9	0.01
J981767		0.02	3.86	49	0.63	9.33	16	33.9	<0.01
J981768		<0.02	0.70	2	0.05	0.78	17	<0.5	<0.01
J981769		0.02	5.13	60	0.81	9.82	21	37.6	<0.01
J981770		0.02	4.51	58	0.92	9.74	24	39.3	<0.01
J981771		0.03	3.65	65	0.97	9.66	16	43.1	<0.01



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CERTIFICATE OF ANALYSIS WH11206141

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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CERTIFICATE WH11206140

Project: MARS

P.O. No.: Batch 3

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10- OCT- 2011.

The following have access to data associated with this certificate:

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS41	51 anal. aqua regia ICPMS	

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ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11206140

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm	ME- MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
J981772		0.26	2.03	1.55	27.0	0.2	<10	150	0.52	2.26	1.75	0.93	41.1	16.7	66	2.03
J981773		3.36	0.46	0.72	163.5	<0.2	<10	580	0.81	2.91	1.64	0.10	60.9	1.9	6	0.73
J981774		4.43	0.16	0.97	19.6	<0.2	<10	550	0.82	0.30	1.45	0.23	60.5	2.1	7	0.83
J981775		2.93	0.07	0.76	31.1	<0.2	<10	560	0.70	0.46	1.06	0.07	40.8	3.5	10	0.90
J981776		5.35	0.08	0.65	6.8	<0.2	<10	560	0.48	0.13	0.83	0.13	42.9	3.4	11	0.75
J981777		5.39	0.09	0.62	28.2	<0.2	<10	500	0.66	0.36	0.91	0.07	41.1	2.1	4	0.64
J981778		2.19	0.20	0.61	3.0	<0.2	<10	430	0.74	0.14	0.98	0.09	37.1	1.5	4	0.63
J981779		5.32	0.09	0.73	6.0	<0.2	<10	520	0.77	0.17	1.07	0.07	45.4	2.4	4	0.82
J981780		2.51	0.34	0.64	3.8	<0.2	<10	510	0.80	0.11	1.09	0.06	43.3	2.6	4	0.90
J981781		5.98	0.06	0.60	4.9	<0.2	<10	450	0.95	0.29	1.36	0.07	43.1	2.2	4	0.79
J981782		4.24	0.08	0.68	3.4	<0.2	<10	480	0.77	0.08	1.39	0.06	41.3	2.4	6	1.01
J981783		3.78	0.02	0.02	3	<0.2	<10	10	<0.05	0.04	20.1	0.06	1.17	0.6	<1	0.10
J981784		3.36	0.05	0.90	4.8	<0.2	<10	360	0.74	0.14	1.38	0.04	55.3	3.9	12	1.45
J981785		3.70	0.05	0.59	2.9	<0.2	<10	280	0.72	0.08	1.44	0.06	44.8	1.4	3	0.82
J981786		5.27	0.06	0.72	4.1	<0.2	<10	430	0.76	0.09	1.21	0.04	46.5	1.6	12	0.74
J981787		5.28	0.08	1.11	5.5	<0.2	<10	540	0.94	0.16	1.56	0.03	62.4	0.8	4	1.45
J981788		5.53	0.07	1.19	4.6	<0.2	<10	630	0.95	0.16	1.70	0.02	66.8	1.0	4	0.83
J981789		6.16	0.06	1.11	4.5	<0.2	<10	550	0.80	0.09	1.55	0.03	68.6	0.6	4	0.88
J981790		5.43	0.05	0.75	2.6	<0.2	<10	340	0.78	0.07	1.33	0.04	39.4	1.2	9	0.82
J981791		5.23	0.05	0.57	5.2	<0.2	<10	370	0.61	0.19	1.22	0.03	33.4	0.7	5	0.41
J981792		3.61	0.02	0.04	<2	<0.2	<10	10	0.05	0.03	19.85	0.07	1.24	0.6	<1	0.21
J981793		5.82	0.07	0.72	1.7	<0.2	<10	500	0.91	0.13	1.34	0.07	40.6	1.4	4	0.69
J981794		2.04	1.52	0.49	2.0	<0.2	<10	350	0.54	5.35	4.92	0.68	65.7	3.0	6	0.42
J981795		3.48	0.27	0.66	1.4	<0.2	<10	470	0.71	0.29	1.36	0.18	42.6	3.0	8	0.87
J981796		5.53	0.14	0.68	1.6	<0.2	<10	450	0.73	0.18	1.23	0.11	47.5	2.3	6	0.84
J981797		4.97	0.18	0.81	1.6	<0.2	<10	430	0.65	0.10	1.36	0.06	44.5	2.1	5	0.70
J981798		5.80	0.03	0.71	2.3	<0.2	<10	300	0.71	0.14	1.46	0.03	46.3	0.5	3	0.54
J981799		6.09	0.03	0.61	1.7	<0.2	<10	360	0.47	0.05	0.90	0.06	47.4	2.3	7	1.07
J981800		1.87	0.03	0.51	1.8	<0.2	<10	350	0.44	0.05	0.73	0.06	48.4	2.5	9	0.33
J981801		0.28	2.36	1.04	110.0	0.4	<10	40	0.50	0.54	0.48	0.97	23.4	17.8	30	3.27
J981802		5.45	0.18	0.59	1.5	<0.2	<10	390	0.53	0.07	0.88	0.06	51.9	2.6	10	0.45
J981803		3.48	0.09	0.57	2.0	<0.2	<10	410	0.55	0.07	0.78	0.07	46.1	2.8	8	0.46
J981804		3.29	0.08	0.58	1.3	<0.2	<10	330	0.56	0.12	0.91	0.06	45.0	2.2	7	0.42
J981805		5.87	0.10	0.61	1.9	<0.2	<10	460	0.63	0.13	1.13	0.09	41.8	2.6	7	0.53
J981806		4.33	0.08	0.59	2.3	<0.2	<10	430	0.77	0.15	2.23	0.16	34.8	1.2	6	0.57
J981807		5.74	0.53	0.72	2.3	<0.2	<10	410	0.73	2.75	2.59	0.59	46.0	2.5	9	0.68



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CERTIFICATE OF ANALYSIS WH11206140

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
J981772		1905	3.99	5.21	0.13	0.13	0.10	0.068	0.53	22.3	7.7	0.81	356	150.5	0.06
J981773		36.8	1.56	4.17	0.16	0.65	0.02	0.007	0.11	33.3	10.1	0.23	161	2.78	0.13
J981774		19.9	1.76	5.04	0.17	0.43	0.02	0.010	0.16	31.1	13.6	0.26	133	2.54	0.13
J981775		16.5	1.85	3.65	0.13	0.55	0.03	0.005	0.15	22.8	8.5	0.18	150	1.30	0.13
J981776		25.5	1.67	3.30	0.13	0.62	0.02	0.007	0.15	22.5	8.8	0.17	138	5.01	0.14
J981777		113.0	1.38	3.14	0.13	0.59	0.02	<0.005	0.12	22.9	7.1	0.12	120	3.47	0.15
J981778		144.0	1.02	2.68	0.13	0.46	0.02	0.006	0.09	19.9	6.6	0.11	96	3.39	0.13
J981779		42.2	1.48	3.49	0.15	0.54	0.01	0.005	0.11	23.5	7.9	0.16	139	2.32	0.15
J981780		52.2	1.49	3.59	0.14	0.45	0.01	<0.005	0.09	23.5	8.6	0.17	135	2.62	0.11
J981781		40.7	1.28	3.43	0.14	0.50	0.01	0.010	0.11	23.2	9.7	0.25	167	9.68	0.13
J981782		103.0	1.50	3.68	0.15	0.55	0.01	0.007	0.09	22.9	8.6	0.21	154	4.81	0.12
J981783		1.3	0.47	0.07	0.07	<0.02	0.02	<0.005	0.01	0.6	0.7	12.40	209	0.21	0.02
J981784		60.5	1.57	4.51	0.17	0.81	0.01	0.007	0.12	30.2	15.6	0.37	154	2.64	0.15
J981785		32.3	0.94	3.16	0.14	0.53	0.01	0.006	0.07	22.7	7.9	0.26	113	2.08	0.12
J981786		29.8	0.83	3.65	0.14	0.56	0.01	<0.005	0.09	24.5	9.8	0.19	108	2.85	0.15
J981787		31.3	0.51	4.73	0.21	0.64	0.02	0.008	0.06	33.6	13.9	0.23	93	13.35	0.16
J981788		41.5	0.62	4.99	0.22	0.62	0.01	<0.005	0.07	36.2	14.3	0.25	98	11.65	0.17
J981789		18.7	0.51	4.49	0.22	0.63	0.02	<0.005	0.06	43.7	11.7	0.22	79	8.24	0.15
J981790		39.4	0.70	3.33	0.15	0.56	0.01	<0.005	0.07	19.3	8.7	0.16	89	3.14	0.13
J981791		24.4	0.52	2.76	0.13	0.55	0.01	<0.005	0.06	16.9	7.5	0.13	80	1.83	0.12
J981792		1.3	0.45	0.12	0.09	<0.02	0.01	0.005	0.02	0.6	0.9	12.10	205	0.06	0.02
J981793		33.6	0.95	3.41	0.14	0.50	0.01	0.006	0.08	20.6	12.0	0.20	133	2.89	0.13
J981794		269	1.01	2.82	0.15	0.58	0.02	0.016	0.09	34.2	8.9	0.34	324	24.2	0.08
J981795		83.9	1.49	3.35	0.13	0.55	0.01	0.006	0.10	23.0	14.8	0.27	198	15.50	0.10
J981796		58.3	1.47	3.34	0.14	0.58	0.01	<0.005	0.10	23.9	8.9	0.18	144	18.05	0.11
J981797		62.4	1.31	3.64	0.14	0.55	0.01	0.005	0.09	25.0	10.2	0.25	120	8.03	0.12
J981798		15.4	0.32	3.17	0.17	0.51	<0.01	<0.005	0.04	27.9	8.4	0.14	70	7.93	0.12
J981799		12.1	1.42	3.30	0.15	0.59	0.01	0.005	0.09	27.0	7.1	0.11	115	3.98	0.13
J981800		12.4	1.77	3.12	0.13	0.59	0.01	<0.005	0.11	24.1	5.8	0.10	124	4.85	0.13
J981801		4650	4.62	4.22	0.12	0.08	0.10	0.050	0.59	11.6	4.5	0.63	509	261	0.03
J981802		24.1	1.72	3.45	0.15	0.59	0.01	<0.005	0.11	26.7	7.8	0.12	127	10.20	0.13
J981803		20.6	1.97	3.51	0.14	0.56	<0.01	<0.005	0.09	24.2	6.6	0.13	126	2.68	0.11
J981804		25.5	1.62	3.03	0.14	0.51	<0.01	<0.005	0.09	24.4	8.9	0.18	129	6.21	0.09
J981805		32.4	1.49	3.33	0.16	0.58	0.01	0.005	0.09	23.1	10.7	0.30	182	6.06	0.12
J981806		9.9	0.57	2.67	0.10	0.51	0.01	0.010	0.06	17.0	11.4	0.39	223	5.26	0.11
J981807		81.9	1.08	2.98	0.10	0.44	0.02	0.010	0.10	25.7	19.1	0.46	322	4.49	0.12



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CERTIFICATE OF ANALYSIS WH11206140

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
J981772		17.1	680	20.5	34.8	0.038	1.95	6.54	6.8	2.5	1.8	72.1	<0.01	0.31	10.0
J981773		4.6	930	26.5	5.2	0.002	0.06	0.69	1.0	0.7	0.7	153.0	<0.01	0.69	8.5
J981774		4.9	890	22.4	6.6	0.002	0.04	0.34	1.1	0.8	0.8	196.5	0.01	0.08	10.3
J981775		4.3	800	8.8	6.5	0.001	0.03	0.24	0.6	0.3	0.6	246	0.01	0.04	8.1
J981776		4.5	840	17.1	7.5	0.004	0.04	0.15	0.5	0.3	0.6	152.0	<0.01	0.02	8.5
J981777		2.9	820	8.1	4.6	0.003	0.05	0.21	0.5	0.6	0.6	152.5	<0.01	0.03	6.7
J981778		2.0	860	10.5	3.5	0.003	0.05	0.14	0.4	0.4	0.5	131.5	<0.01	0.03	5.7
J981779		3.9	880	7.4	4.4	0.003	0.04	0.15	0.6	0.4	0.7	196.0	0.01	0.03	7.4
J981780		9.2	920	11.9	4.1	0.002	0.04	0.15	0.6	0.5	0.7	186.0	0.01	0.11	7.1
J981781		3.5	910	9.9	4.7	0.013	0.04	0.18	0.9	0.4	0.7	158.5	0.01	0.04	6.6
J981782		3.9	900	7.2	4.0	0.004	0.05	0.13	1.0	0.4	0.7	159.5	0.01	0.01	6.4
J981783		1.4	180	1.3	0.5	0.001	0.03	0.05	0.2	0.2	<0.2	47.7	<0.01	<0.01	<0.2
J981784		5.1	1470	5.2	7.5	0.002	0.04	0.18	1.3	0.6	0.8	164.5	0.02	<0.01	9.5
J981785		2.4	1040	7.1	3.2	0.002	0.03	0.13	0.8	0.2	0.6	138.5	0.01	<0.01	6.7
J981786		4.0	970	5.7	4.3	0.002	0.03	0.17	0.6	0.3	0.7	361	0.01	0.02	8.9
J981787		3.4	1240	6.5	3.5	0.004	0.04	0.49	0.8	0.4	0.7	376	0.01	0.05	9.7
J981788		4.0	1190	5.1	3.8	0.003	0.04	0.45	0.8	0.2	0.8	458	0.01	0.02	9.3
J981789		2.9	1240	5.9	3.0	0.005	0.03	0.40	0.7	0.9	0.7	467	0.01	0.03	9.7
J981790		3.4	880	5.0	3.4	0.002	0.03	0.16	0.7	0.4	0.6	284	0.01	0.01	6.2
J981791		2.5	870	5.4	2.6	0.002	0.03	0.14	0.4	0.4	0.5	412	0.01	0.02	6.4
J981792		1.5	180	1.1	1.1	<0.001	0.04	0.05	0.2	0.2	<0.2	48.3	<0.01	<0.01	<0.2
J981793		2.9	880	7.4	3.5	0.005	0.05	0.15	0.6	0.5	0.6	237	<0.01	0.05	6.0
J981794		6.8	770	96.3	3.7	0.004	0.06	0.20	2.9	1.0	0.5	154.0	<0.01	1.38	5.0
J981795		4.7	1000	14.2	5.3	0.022	0.04	0.17	1.1	0.4	0.6	268	<0.01	0.06	10.6
J981796		3.9	980	12.9	4.5	0.012	0.04	0.19	0.7	0.4	0.6	260	0.01	0.03	12.6
J981797		5.0	1010	6.9	4.2	0.006	0.04	0.23	1.2	0.5	0.6	251	0.01	0.05	9.6
J981798		1.6	1000	4.8	2.0	0.004	0.02	0.31	0.6	0.2	0.6	215	0.01	0.04	9.6
J981799		3.2	960	7.7	4.5	0.002	0.03	0.15	0.5	0.7	0.6	226	0.01	<0.01	11.5
J981800		3.2	900	8.7	4.9	0.002	0.02	0.14	0.4	0.3	0.7	153.5	0.01	<0.01	11.6
J981801		22.6	1040	37.1	32.6	0.657	2.52	5.69	7.4	7.2	1.9	33.9	<0.01	1.05	1.8
J981802		4.1	930	9.4	5.3	0.006	0.03	0.18	0.5	<0.2	0.8	198.5	<0.01	0.02	12.6
J981803		3.7	970	9.0	4.2	0.002	0.03	0.13	0.5	0.2	0.8	136.5	0.01	<0.01	13.3
J981804		3.6	960	8.4	3.7	0.003	0.03	0.15	0.5	0.5	0.7	146.0	0.01	0.03	11.8
J981805		3.1	970	10.8	4.8	0.005	0.04	0.16	0.9	0.5	0.7	132.0	<0.01	0.01	12.3
J981806		3.2	1010	11.3	3.1	0.005	0.02	0.16	1.7	0.4	0.6	282	<0.01	0.03	10.2
J981807		4.6	980	49.2	6.9	0.004	0.06	0.21	2.0	0.5	0.7	221	<0.01	1.12	6.7



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 Account: F

Project: MARS

CERTIFICATE OF ANALYSIS WH11206140

Sample Description	Method Analyte Units LOR	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	Au- AA26 Au ppm 0.01
J981772		0.23	3.81	58	2.56	11.25	65	3.8	0.19
J981773		<0.02	3.69	56	0.83	9.10	18	27.0	0.08
J981774		<0.02	4.06	60	0.60	10.35	25	24.1	<0.01
J981775		<0.02	2.74	61	0.45	7.11	20	13.9	0.01
J981776		<0.02	3.26	51	0.63	7.24	24	14.8	<0.01
J981777		<0.02	2.96	40	0.55	6.77	15	14.1	0.02
J981778		<0.02	2.33	27	0.34	5.95	12	11.7	<0.01
J981779		<0.02	3.13	39	0.49	7.28	17	12.6	<0.01
J981780		<0.02	2.96	39	0.47	7.16	16	11.9	<0.01
J981781		<0.02	3.12	39	0.59	7.20	14	12.1	0.01
J981782		<0.02	2.99	40	0.49	7.15	14	13.5	<0.01
J981783		<0.02	0.45	1	<0.05	0.76	16	<0.5	<0.01
J981784		<0.02	3.64	65	0.43	9.43	15	21.2	<0.01
J981785		<0.02	2.48	31	0.39	7.30	10	12.3	<0.01
J981786		<0.02	3.35	34	0.47	8.08	8	14.0	0.01
J981787		<0.02	2.86	42	1.38	10.45	6	21.4	<0.01
J981788		<0.02	2.59	43	1.04	9.84	7	19.1	<0.01
J981789		<0.02	2.49	36	0.95	9.93	4	19.5	<0.01
J981790		<0.02	2.48	29	0.38	7.29	6	14.2	<0.01
J981791		<0.02	2.08	24	0.32	6.41	5	12.4	0.01
J981792		<0.02	0.50	1	<0.05	0.86	16	<0.5	<0.01
J981793		<0.02	2.62	26	0.44	7.09	9	11.9	<0.01
J981794		<0.02	3.12	35	2.41	8.42	103	16.2	0.05
J981795		<0.02	3.56	48	0.93	8.20	26	11.8	<0.01
J981796		<0.02	3.98	51	0.71	8.14	21	10.4	<0.01
J981797		<0.02	3.26	51	0.99	7.94	10	18.6	<0.01
J981798		<0.02	2.89	27	1.38	7.99	3	20.5	0.01
J981799		<0.02	3.72	47	0.45	8.28	14	12.8	<0.01
J981800		<0.02	3.75	53	0.40	8.17	17	10.3	<0.01
J981801		0.36	0.59	84	1.22	10.65	142	2.3	0.42
J981802		<0.02	4.31	53	0.50	8.42	16	10.7	<0.01
J981803		<0.02	4.76	60	0.42	8.08	17	9.4	<0.01
J981804		<0.02	4.20	54	0.41	7.58	14	9.0	<0.01
J981805		<0.02	3.92	53	0.78	8.00	21	9.5	<0.01
J981806		0.02	3.11	38	0.70	7.83	22	8.7	<0.01
J981807		0.03	3.08	45	1.35	8.68	76	8.5	0.01



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CERTIFICATE OF ANALYSIS WH11206140

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Account: F

CERTIFICATE WH11200861

Project: Mars

P.O. No.: Batch 1

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 3- OCT- 2011.

The following have access to data associated with this certificate:

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME- MS41	51 anal. aqua regia ICPMS
Au- AA26	Ore Grade Au 50g FA AA finish AAS

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ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11200861

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.01	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
J981700		1.43	0.04	0.22	0.93	2.9	<0.2	<10	250	0.91	0.12	2.26	0.09	46.9	5.1	11
J981701		4.59	0.02	0.24	0.75	1.0	<0.2	<10	190	1.05	0.42	2.35	0.07	67.7	4.3	6
J981702		3.98	0.01	0.12	0.92	3.0	<0.2	<10	540	1.13	0.29	1.23	0.04	46.8	2.5	6
J981703		1.89	0.03	0.12	0.97	1.8	<0.2	<10	210	0.98	0.11	1.40	0.04	67.7	4.5	4
J981704		0.73	0.02	0.12	0.92	1.6	<0.2	<10	230	0.98	0.11	1.32	0.05	68.5	6.3	4
J981705		5.79	0.01	0.48	0.64	0.5	1.0	<10	460	0.71	0.51	1.37	0.07	41.4	3.4	8
J981706		4.44	<0.01	0.05	0.70	0.3	<0.2	<10	370	0.91	0.08	2.03	0.06	48.3	3.6	8
J981707		5.53	0.01	0.12	0.65	1.5	<0.2	<10	130	0.97	1.56	2.58	0.06	73.0	2.9	7
J981708		5.52	<0.01	0.22	0.76	0.3	<0.2	<10	430	0.97	1.21	2.78	0.09	57.7	3.3	9
J981709		6.15	<0.01	0.05	0.82	0.6	<0.2	<10	640	0.79	0.06	2.10	0.08	43.0	4.2	9
J981710		6.27	<0.01	0.06	0.72	0.3	<0.2	<10	470	0.74	0.07	1.66	0.09	42.5	3.6	9
J981711		5.84	<0.01	0.06	0.71	0.2	<0.2	<10	420	0.36	0.06	0.82	0.11	37.9	3.5	10
J981712		6.15	<0.01	0.05	0.77	0.6	<0.2	<10	550	0.70	0.08	1.66	0.09	47.2	3.5	7
J981713		2.92	<0.01	<0.01	0.03	2	<0.2	<10	20	<0.05	0.01	19.95	0.06	1.48	1.2	<1
J981714		5.78	<0.01	0.06	0.87	0.6	<0.2	<10	480	0.44	0.07	1.45	0.09	43.4	4.9	10
J981715		5.17	<0.01	0.05	0.96	0.6	<0.2	<10	400	0.43	0.05	1.39	0.09	44.3	3.9	7
J981716		5.98	<0.01	0.04	1.33	0.8	<0.2	<10	570	0.77	0.05	1.63	0.07	49.8	3.4	13
J981717		5.46	<0.01	0.03	1.14	1.0	<0.2	<10	600	0.81	0.04	1.59	0.07	51.8	2.9	7
J981718		5.37	<0.01	0.04	1.14	1.5	<0.2	<10	570	0.81	0.06	1.41	0.06	47.5	2.2	7
J981719		5.56	<0.01	0.06	1.04	17.5	<0.2	10	520	0.47	0.05	1.17	0.10	46.8	3.7	7
J981720		5.60	<0.01	0.08	1.23	0.9	<0.2	<10	410	0.45	0.07	1.22	0.13	51.1	5.3	7
J981721		5.68	<0.01	0.55	1.18	1.6	<0.2	<10	810	0.65	6.15	1.78	0.09	49.3	4.2	6
J981722		2.80	<0.01	<0.01	0.03	<2	<0.2	<10	30	<0.05	0.03	19.45	0.06	1.43	1.2	<1
J981723		2.01	<0.01	0.07	1.20	1.7	<0.2	<10	890	0.81	0.21	1.82	0.06	48.5	3.6	5
J981724		0.23	0.21	2.04	1.63	25.6	0.2	<10	120	0.40	2.50	1.80	0.99	39.8	16.8	64
J981725		0.80	0.01	0.49	1.17	1.8	<0.2	<10	510	1.14	2.65	2.84	0.07	56.1	9.1	6
J981726		2.74	0.01	0.14	1.09	1.6	<0.2	<10	1190	0.92	0.50	1.90	0.06	58.8	5.5	6
J981727		5.28	<0.01	0.06	1.39	1.2	<0.2	20	700	0.58	0.11	1.46	0.09	58.0	5.1	7
J981728		5.38	<0.01	0.05	1.33	0.6	<0.2	20	630	0.53	0.07	1.37	0.10	52.8	4.1	6
J981729		0.22	0.44	1.99	1.01	101.0	0.3	<10	40	0.38	0.50	0.45	1.03	23.4	16.4	29
J981730		5.15	0.01	0.05	1.24	1.3	<0.2	<10	610	0.97	0.09	1.64	0.06	53.2	2.1	5
J981731		4.47	<0.01	0.05	1.18	1.0	<0.2	<10	1130	1.04	0.06	1.57	0.05	49.2	2.0	6
J981732		2.08	0.08	0.48	1.63	1.2	<0.2	<10	500	0.66	0.16	1.59	0.13	35.9	18.3	81
J981733		4.59	0.01	0.11	1.46	13.5	<0.2	<10	300	0.46	0.10	1.17	0.08	27.7	17.7	98
J981734		5.01	<0.01	0.06	0.71	2.4	<0.2	<10	200	0.98	0.11	1.42	0.03	43.4	1.4	6
J981735		5.50	<0.01	0.36	0.93	3.1	<0.2	<10	670	1.13	0.60	1.95	0.06	48.6	3.2	5



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Project: Mars

CERTIFICATE OF ANALYSIS WH11200861

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
J981700		0.78	95.4	1.62	4.08	0.11	0.49	0.01	0.021	0.15	26.7	9.9	0.40	349	2.76
J981701		1.10	182.5	1.46	3.65	0.15	0.75	0.01	0.025	0.10	36.2	9.7	0.35	349	4.27
J981702		0.58	128.0	1.24	4.54	0.13	1.09	0.01	0.009	0.12	24.8	11.4	0.29	217	1.20
J981703		1.01	174.0	1.76	4.49	0.13	0.34	0.01	0.015	0.12	36.1	15.3	0.48	210	1.02
J981704		1.05	209	1.64	4.35	0.13	0.63	0.01	0.013	0.11	34.7	14.5	0.45	197	1.11
J981705		0.82	197.0	1.43	2.80	0.07	0.58	0.01	0.012	0.10	21.4	7.0	0.28	242	1.99
J981706		1.08	44.8	1.67	3.09	0.08	0.59	0.01	0.013	0.11	24.5	7.0	0.28	359	1.79
J981707		1.48	42.0	1.17	3.14	0.09	0.36	0.01	0.022	0.09	41.5	9.3	0.24	405	0.86
J981708		1.24	29.3	1.27	3.22	0.08	0.49	0.01	0.018	0.08	28.9	9.7	0.41	425	3.04
J981709		1.11	19.6	1.70	4.14	0.09	0.51	0.01	0.016	0.09	21.1	12.8	0.56	439	2.36
J981710		1.00	18.2	1.59	3.82	0.09	0.48	0.01	0.013	0.09	20.7	11.0	0.37	395	1.15
J981711		0.96	16.0	1.91	3.47	0.09	0.48	0.01	<0.005	0.10	19.4	7.3	0.21	219	1.35
J981712		1.08	25.1	1.58	3.88	0.09	0.57	0.01	0.009	0.11	25.8	10.1	0.33	259	1.83
J981713		0.14	1.4	0.46	0.15	0.13	<0.02	0.01	<0.005	0.02	0.7	0.8	12.40	217	0.78
J981714		0.80	34.1	1.98	4.31	0.10	0.46	0.01	0.006	0.12	21.2	9.4	0.28	231	1.66
J981715		1.08	20.0	1.73	4.43	0.11	0.45	0.01	0.005	0.11	22.9	10.7	0.23	193	1.11
J981716		1.30	15.2	1.33	5.57	0.14	0.52	0.01	0.005	0.10	26.0	11.3	0.29	174	0.99
J981717		1.53	18.7	1.24	5.06	0.12	0.46	0.01	0.006	0.09	27.1	12.8	0.27	175	0.92
J981718		1.75	22.9	1.00	5.19	0.12	0.42	0.01	<0.005	0.09	24.5	12.5	0.23	143	1.21
J981719		1.57	21.2	1.74	4.59	0.11	0.40	0.01	<0.005	0.11	23.4	9.3	0.13	159	1.72
J981720		1.15	50.0	2.04	4.90	0.12	0.30	0.01	<0.005	0.13	25.2	10.3	0.16	162	2.27
J981721		2.39	58.9	1.44	5.02	0.12	0.35	0.01	0.007	0.11	24.2	17.5	0.30	189	3.37
J981722		0.14	1.6	0.46	0.14	0.15	<0.02	0.01	<0.005	0.01	0.7	0.7	12.10	215	0.09
J981723		1.84	30.7	1.22	5.45	0.13	0.31	<0.01	0.005	0.10	23.6	22.6	0.37	179	1.47
J981724		1.99	1890	3.96	5.26	0.10	0.14	0.09	0.073	0.51	21.3	7.3	0.83	364	161.0
J981725		1.16	113.0	2.06	5.75	0.13	0.46	0.01	0.013	0.13	28.5	35.4	0.62	309	2.09
J981726		1.19	100.5	1.61	5.32	0.12	0.41	<0.01	0.008	0.13	30.8	26.7	0.47	244	4.59
J981727		2.71	25.1	1.95	5.29	0.12	0.37	0.01	<0.005	0.15	29.3	14.5	0.30	196	2.94
J981728		3.22	19.0	1.69	4.70	0.11	0.37	0.01	<0.005	0.14	27.1	11.9	0.21	175	2.02
J981729		3.47	4300	4.25	3.71	0.11	0.10	0.09	0.050	0.54	11.3	4.5	0.58	493	249
J981730		2.41	29.2	0.84	5.82	0.13	0.44	0.01	0.005	0.08	29.5	12.9	0.23	137	2.48
J981731		4.40	67.0	0.73	5.47	0.13	0.44	<0.01	0.007	0.07	26.4	13.2	0.33	138	3.39
J981732		5.82	953	1.81	7.63	0.17	0.36	0.01	0.042	0.26	19.4	34.0	1.59	224	7.75
J981733		4.92	202	2.75	7.19	0.13	0.38	0.01	0.008	0.67	14.2	23.5	1.30	208	23.2
J981734		2.74	17.8	0.53	4.74	0.12	0.55	<0.01	0.008	0.06	22.1	16.0	0.35	154	1.11
J981735		1.18	128.0	0.75	4.92	0.12	0.66	0.01	0.011	0.07	26.7	26.3	0.54	301	5.59



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CERTIFICATE OF ANALYSIS WH11200861

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
J981700		0.28	10.2	530	22.1	8.3	0.001	0.06	0.26	4.1	0.4	0.5	85.0	0.01	0.04
J981701		0.38	5.4	730	5.7	8.3	0.001	0.07	0.15	3.9	0.5	0.6	66.3	0.01	0.11
J981702		1.23	3.3	690	9.0	6.6	0.001	0.04	0.23	1.2	0.3	0.6	198.0	0.02	0.02
J981703		0.87	4.1	1100	6.9	8.2	0.001	0.02	0.21	2.0	0.5	0.8	142.0	0.01	0.02
J981704		1.10	4.6	1030	6.4	8.3	0.001	0.06	0.20	1.9	0.7	0.8	149.0	0.01	0.02
J981705		0.95	4.0	690	8.3	6.4	0.002	0.01	0.16	1.5	0.4	0.6	154.0	0.01	0.02
J981706		0.80	3.8	670	6.7	7.2	0.001	<0.01	0.10	2.1	0.3	0.6	183.5	0.01	0.01
J981707		0.08	4.0	680	13.5	7.3	0.001	<0.01	0.18	2.7	0.3	0.6	73.5	0.01	0.03
J981708		0.42	4.1	700	22.6	6.5	0.002	0.01	0.13	2.7	0.4	0.6	117.5	0.01	0.11
J981709		0.68	4.4	720	8.1	5.8	0.001	0.03	0.10	2.6	0.3	0.6	152.0	0.01	0.02
J981710		0.79	3.8	680	8.8	6.3	0.001	<0.01	0.09	2.1	0.3	0.6	136.5	0.01	0.01
J981711		1.33	3.9	850	10.3	6.1	0.001	0.04	0.10	0.7	0.3	0.5	181.5	0.01	0.01
J981712		0.90	3.7	1170	10.0	8.1	0.002	0.03	0.17	1.7	0.3	0.5	140.5	0.01	0.02
J981713		0.20	3.6	190	1.1	0.9	0.002	0.02	<0.05	0.3	0.2	<0.2	51.3	<0.01	0.01
J981714		1.17	4.1	960	8.8	8.1	0.001	0.05	0.12	1.3	0.3	0.5	215	0.01	0.02
J981715		1.33	3.3	1190	8.6	7.5	<0.001	0.01	0.11	0.9	0.2	0.5	183.5	0.01	0.01
J981716		1.07	7.8	1270	7.9	6.2	0.001	0.01	0.15	1.3	0.3	0.5	317	0.02	0.01
J981717		1.10	3.3	1310	8.1	6.0	0.001	0.01	0.15	1.4	0.3	0.5	242	0.02	0.02
J981718		0.90	2.7	1200	7.6	6.1	<0.001	0.01	0.15	1.1	0.3	0.5	198.0	0.01	0.01
J981719		1.18	3.1	1220	8.9	6.9	0.001	0.01	0.12	0.6	0.3	0.5	232	0.01	0.01
J981720		1.12	3.6	1340	9.2	8.2	0.001	0.06	0.10	0.6	0.4	0.5	226	0.01	0.01
J981721		0.84	3.4	1430	32.3	8.6	0.001	0.06	0.17	1.4	0.4	0.6	201	0.01	3.24
J981722		0.19	3.7	200	1.2	0.8	0.002	0.01	<0.05	0.4	0.2	<0.2	50.0	<0.01	0.02
J981723		0.84	3.2	1420	6.4	7.7	0.001	0.05	0.19	1.4	0.3	0.6	193.0	0.01	0.09
J981724		0.14	16.9	720	20.6	32.9	0.037	1.87	5.99	6.9	2.8	1.7	72.9	0.01	0.54
J981725		0.50	4.3	1410	15.9	10.2	0.001	0.50	0.17	2.3	1.9	0.6	198.0	0.01	1.21
J981726		0.66	4.3	1370	7.0	9.8	0.002	0.08	0.18	1.8	0.5	0.7	190.0	0.01	0.36
J981727		1.03	3.2	1440	8.9	11.5	0.001	0.04	0.16	1.0	0.3	0.6	245	0.01	0.05
J981728		1.32	2.9	1400	9.0	10.3	0.001	0.02	0.15	0.9	0.3	0.5	308	0.02	0.03
J981729		0.21	21.2	1000	37.5	32.4	0.591	2.40	5.83	6.9	7.4	1.9	32.6	0.01	1.01
J981730		0.92	2.7	1260	7.9	6.4	0.002	0.03	0.16	1.1	0.4	0.7	323	0.02	0.04
J981731		0.98	4.7	1040	7.2	6.6	0.002	0.05	0.16	1.5	0.4	0.7	303	0.02	0.01
J981732		0.40	108.5	1030	4.8	24.6	0.005	0.43	0.17	1.8	2.9	0.8	169.0	0.01	0.09
J981733		0.50	138.0	920	3.0	56.2	0.017	0.91	0.25	5.7	3.0	0.4	98.4	0.01	0.06
J981734		0.90	3.5	1220	7.8	5.4	0.001	<0.01	0.16	1.9	0.3	0.8	118.5	0.01	0.02
J981735		0.73	4.8	1020	10.5	7.5	0.014	0.03	0.21	2.4	0.7	0.6	203	0.01	0.15



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Project: Mars

CERTIFICATE OF ANALYSIS WH11200861

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
J981700		0.012	0.07	1.67	43	0.62	8.29	29	13.3
J981701		0.027	0.03	2.61	67	0.43	11.60	18	25.6
J981702		0.110	0.02	4.68	48	0.70	8.02	18	49.0
J981703		0.151	0.02	4.28	65	0.88	11.70	15	23.2
J981704		0.148	0.02	4.07	58	0.81	12.00	15	34.5
J981705		0.097	0.02	2.69	53	0.34	6.90	19	13.4
J981706		0.077	0.02	2.36	53	0.41	8.78	20	13.7
J981707		0.008	0.02	1.63	61	0.36	11.40	21	10.8
J981708		0.042	0.02	2.90	49	0.48	10.50	23	12.2
J981709		0.090	0.02	2.91	51	0.43	8.38	27	13.3
J981710		0.081	0.03	2.29	50	0.32	8.29	29	11.6
J981711		0.119	0.03	2.67	52	0.38	6.74	34	11.9
J981712		0.121	0.04	3.25	58	0.56	8.40	24	12.9
J981713		<0.005	<0.02	0.47	2	0.05	0.85	17	<0.5
J981714		0.124	0.04	2.62	58	0.51	8.42	28	11.5
J981715		0.129	0.04	2.50	56	0.40	7.84	27	10.8
J981716		0.132	0.03	2.58	49	0.46	8.83	20	12.0
J981717		0.124	0.03	2.50	47	0.46	9.69	20	10.9
J981718		0.126	0.03	2.49	42	0.55	9.64	15	10.2
J981719		0.124	0.04	2.92	54	0.67	8.89	27	10.4
J981720		0.132	0.06	3.04	57	1.47	10.35	34	10.4
J981721		0.128	0.05	2.90	49	1.19	9.41	23	10.1
J981722		<0.005	<0.02	0.43	2	0.06	0.82	16	<0.5
J981723		0.122	0.03	3.30	46	0.55	9.02	18	8.2
J981724		0.038	0.29	3.79	59	2.72	11.00	66	4.2
J981725		0.117	0.05	2.82	53	0.81	9.63	27	13.9
J981726		0.126	0.05	3.42	53	0.75	9.52	23	12.1
J981727		0.140	0.06	3.74	59	0.87	9.62	33	9.4
J981728		0.135	0.05	3.59	54	0.66	9.10	33	8.7
J981729		0.055	0.40	0.58	81	1.38	9.92	137	2.5
J981730		0.121	0.03	3.82	39	0.73	9.75	16	12.4
J981731		0.117	0.03	3.54	43	0.57	9.69	12	11.8
J981732		0.135	0.14	2.99	57	0.52	8.45	38	10.3
J981733		0.230	0.68	4.08	145	0.56	10.20	38	12.6
J981734		0.130	0.02	3.86	44	0.56	10.00	11	14.7
J981735		0.114	0.03	4.95	46	0.66	9.75	18	17.4



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CERTIFICATE OF ANALYSIS WH11200861

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).

APPENDIX IV

GEOLOGICAL AND GEOTECHNICAL LOGS

ZONE: _____

SECTION: _____

Grid East	Grid North	Easting	Northing	Elev. (m)	Depth (m)
		509839	6795069	1329	306.32

HOLE: **MARS-10-01**

CLAIM: _____

Contractor: Beaudoin

Drill: _____

Core size: BTW

Casing depth: _____ in/out

Drilling dates: Sept. 5th-Sept. 12th, 2011

Geology logged by: K. Unger

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
0	45	-45	Compass				

TARGET: Mars Cu-Au-Mo Porphyry

SUMMARY

From (m)	To (m)	Interval	Unit	Comments
0.00	2.57	2.57	OVb	
2.57	73.70	71.13	MZN	
73.70	76.20	2.50	HFL	
76.20	89.15	12.95	MZN	
89.15	103.83	14.68	HFL	
103.83	134.11	30.28	MZN	
34.11	149.90	115.79	HFL	
142.90	185.26	42.36	MZN	
185.26	188.92	3.66	DIO	
188.92	242.29	53.37	MZN	
242.29	263.37	21.08	DIO	
263.37	287.34	23.97	MZN	
287.34	291.94	4.60	INT	
291.94	306.32	14.38	MZN	

SAMPLES

Numbers: J981700 to J981838

Total: 139

Batch: 1, 2, 3, 4

Date Sent: _____

Certificate: _____

COMMENTS

INTERVAL			LITHOLOGY					ALTERATION		MINERALS		DESCRIPTION	Photo
Type	From (m)	To (m)	Unit	Grain Size	Shade	Colour	Texture	Type	Intensity	Type	Conc. (%)		
G	0.00	2.57	OVB									OVB/casing, no recovery.	
G	2.57	73.70	MZN	CG		GY PK		POT CHL	3 2	Py	0.01	medium grey to pink, MG to CG, quartz poor Monzonite with pink K-spar on selvages of fractures. Core is MG to CG, coarse feldspar crystals are supported in a MG to FG matrix with ~10% dark, irregular crystals of biotite and hornblende. Rock is dominated by feldspar (Plag>K-spar). Tabular phenocrysts of feldspar are up to 2mm in size, some exhibits zonation rims. Core is variably magnetic, more so where grey. Magnetism is not typical in pink, potassic altered core. Clasts of dark green-black xenoliths are scattered throughout as angular to irregular FG-MG rock clasts up to 30 cm of core width. FG pyrite is present with calcite and dark green chlorite in intermittent veinlets. Core is fractured throughout. Dull white-beige calcite and green chlorite line most fractures, some appearing rusty. Trace disseminated silvery to yellow vFG to FG grains scattered throughout.	
D	2.57	67.10	MZN	CG		GY PK		POT CHL	3 2	Py	0.01	As general description.	
D	67.10	73.70	MZN	CG		GY PK		POT CHL	4 2	Py	0.01	Pink to grey, CG to MG variably magnetic "potassic flood" monzonite. Core grades from pink to grey in patches with pink K-spar matrix with CG white feldspar phenocrysts. Potassic altered zones up to 1.25 m wide with grey, finer grained MZN between pink patches. Core is variably magnetic from weak to strong, even where core is pink. Core is most magnetic where altered xenolith clasts and CG, black magnetite grains are visible. Xenoliths are scattered throughout, <1% of core and are up to 2.7 cm in size. FG-MG silvery yellow sulfides are variably disseminated, preferential to grey core. Dark mafic minerals in pink core appear altered dark green, fibrous and chloritic.	
G	73.70	76.20	HFL			PU GN		CHL	3	Py Cp	0.1 0.1	Purple-brown to grey-green, FG-MG hornfels with disseminated FG to MG silvery yellow pyrite. Green and purple margins are irregular. Green, chloritic (phyllitic?) alteration appears along fracture margins and as nebulous patches. Narrow healed fractures with variable orientations are seen throughout, 1 mm to <1 mm in width with grains of Py and Cp with clacite sometimes seen with handlens.	
G	76.20	89.15	MZN	CG	MD	GY PK		POT	4			Medium grey-green to pink, pervasively potassic altered monzonite. Coarse, zoned feldspar phenocrysts within a finer grained matrix of variably pink to green-grey potassic and chloritic altered monzonite. Core is magnetic where grey with disseminated, FG to CG magnetite in anhedral grains <1 mm in size. Magnetism drops off where pink. Trace FG to MG disseminated silvery-yellow pyrite grains are visible on some fractures. A few narrow, opaque Qz veinlets <2 mm wide are scattered throughout. Many narrow <1 mm wide healed fractures filled with clacite and chlorite (and sulfides?) throughout.	
G	89.15	103.83	HFL			PU GN		CHL	2	Py Cp	0.1 0.05	Purple-brown, MG to FG hornfels with intermittent and variable cBX overprinting relict bedding. Core is variably magnetic, patches of core up to 3 cm long host disseminated magnetite and tension gash-like structures with calcite, chlorite and silvery-black magnetite being most magnetic. Trace silvery-yellow MG to FG sulfides are present on fractures (pyrite?). Chalcopyrite is present with some irregularly oriented calcite-chlorite veinlets/healed fractures as rare, anhedral, MG grains. cBX textures are local to intrusive rock on margins along 20 cm wide monzonite blocks within HFL, and is strong above ICN, decreasing in strength moving up hole. cBX is crosscut by narrow calcite+/- chlorite veinlets. Open fractures are rusty with some limonite throughout.	

INTERVAL			LITHOLOGY					ALTERATION		MINERALS		DESCRIPTION	Photo
Type	From (m)	To (m)	Unit	Grain Size	Shade	Colour	Texture	Type	Intensity	Type	Conc. (%)		
G	103.83	134.11	MZN	CG	MD	PK GY		POT	3	Py Cp	0.1 0.1	Pink to grey-green CG monzonite with white cream coloured tabular phenocrysts of feldspar and irregular, dark green, fibrous altered mafics within pink to grey FG to MG matrix. Core is variably magnetic with disseminated magnetite and aggregates of CG magnetite where core is grey in colour. Magnetism less evident where core is pink and potassic. Numerous scattered xenoliths are present throughout, up to 1.9 cm, irregular in shape and often exhibit chloritic rims. Potassic alteration is pervasive, irregular clouds and halos along narrow fractures to broad bands up to 1.5 m wide all exhibit pink, potassic alteration. FG sulfides present with calcite-chlorite healed fractures as FG to MG chalcopyrite and pyrite. Cp is also seen with narrow Qz veinlets rarely seen throughout.	
G	134.11	142.90	HFL			PU BN		CHL	3	Py	0.1	Purple to brown, MG to FG, variably chloritic altered hornfels. Core is blocky to rubbly with oxidized fracture faces throughout. Dark green to light green-grey chloritic alteration along margins of fractures. Trace silvery yellow MG to FG euhedral grains of pyrite visible on fracture faces and as oxidized limonitic grains on weathered fractures. A relict BD fabricc is present through HFL where not obliterated by CHL alteration.	
G	142.90	306.32	MZN	CG	MD	PK GY		POT CHL	4 3	Py	0.1	Pink to medium grey, CG to MG monzonite. White to grey, tabular feldspar phenocrysts are held in pink to grey matrix with irregular, black to dark green mafic minerals. Mafics appear dark green and altered where core is pink. Potassic alteration present in bands up to 9 m wide and as narrow selvages on fractures through grey MZN. Fracture faces are generally fresh, unlike rusty fractures seen elsewhere in the hole. Narrow calcite healed fractures with variable orientations seen throughout. Trace disseminated silvery-yellow euhedral grains of <1 mm prite visible on fracture faces. Core is variably magnetic, some disseminated magnetite present even where core is pink. Magnetisim present in bands up to 20 cm wide, most commonly where core is grey.	
D	185.26	188.92	DIO	CG	DK	GN GY		POT	1	Mg	5	Dark green to grey, coarse grained diorite. Coarse grains of tabular grey to white feldspar with dark green pyroxene and dark grey hornblende. Pyroxene forms rare aggregates of radiating masses <1 cm wide, appearing almost as twinned crystals on core surface. Feldspar crystals up to 8 cm in size, but generally <2 mm. Pink K-Spar present along narrow fracture selvages. Core is variably magnetic throughout, irregular black magnetite crystals can be identified with a pen magnet and are <1 mm in size. Sulfides absent or are not visible with handlens.	
D	188.92	242.29	MZN	CG		GY PK		POT	3	Cp Py	0.1 0.1	Grey-green to pink, CG to MG quartz monzonite. Core is hard, not easily scratched. Core is variably magnetic, most evident where core is grey in colour. Euhedral, variably zoned, tabular, white-grey feldspar phenocrysts and irregular black to green mafics are in a grey to green matrix that appears pink where potassic altered. Narrow Qz veinlets are scattered throughout, grey Qz with white clacite and green chlorite. Healed fractures with variable orientations are seen throughout. Some fractures exhibit rare chacopyrite and pyrite as platy crystals to euhedral <1 mm grains.	
D	210.55	211.65	MZN	CG		PK GY		POT	5			Pink, strongly POT altered, brecciated MG-CG MZN. BX and fractures are filled with soft, powdery biege calite with potassic alteration along veinlets/BX selvages. Relict MZN texture and colour present where alteration is weaker. Core is rubbly to blocky breaking easily along BX structures.	
D	242.29	246.65	DIO	MG	MD DK	GY GY						Medium grey to black, MG-CG, non-magnetic monzodiorite(?). Core is darker and more fine grained than elsewhere. Core hosts irregularly oriented, rusty calcareous fractures with a platy black mineral (chalcocite?). Core is blocky to rubbly.	

[illegible]

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Cu (g/t)	Ag (ppm)	Mo (ppm)	Comments
0.00	3.05	3.05	0.48	16	J981700	1	0.04	95.4	0.22	2.76	
3.05	6.12	3.07	2.06	67	J981701	1	0.02	182.5	0.24	4.27	
6.10	8.53	2.43	1.97	81	J981702	1	0.01	128.0	0.12	1.2	
8.53	9.75	1.22	0.89	73	J981703	1	0.03	174.0	0.12	1.02	
8.53	9.75	1.22	0.89	73	J981704	1	0.02	209.0	0.12	1.11	DUPLICATE
9.75	12.80	3.05	2.46	81	J981705	1	0.01	197.0	0.48	1.99	
12.80	15.24	2.44	1.90	78	J981706	1	<0.01	44.8	0.05	1.79	
15.24	18.29	3.05	2.16	71	J981707	1	0.01	42.0	0.12	0.86	
18.29	21.34	3.05	2.32	76	J981708	1	<0.01	29.3	0.22	3.04	
21.34	24.38	3.04	2.65	87	J981709	1	<0.01	19.6	0.05	2.36	
24.38	27.43	3.05	2.96	97	J981710	1	<0.01	18.2	0.06	1.15	
27.43	30.48	3.05	2.67	88	J981711	1	<0.01	16.0	0.06	1.35	
30.48	33.53	3.05	2.97	97	J981712	1	<0.01	25.1	0.05	1.83	
/	/	/	/	/	J981713	1	<0.01	1.4	<0.01	0.78	BLANK
33.53	36.58	3.05	2.95	97	J981714	1	<0.01	34.1	0.06	1.66	
36.58	39.62	3.04	2.72	89	J981715	1	<0.01	20.0	0.05	1.11	
39.62	42.67	3.05	2.97	97	J981716	1	<0.01	15.2	0.04	0.99	
42.67	45.72	3.05	2.74	90	J981717	1	<0.01	18.7	0.03	0.92	
45.72	48.77	3.05	2.71	89	J981718	1	<0.01	22.9	0.04	1.21	
48.77	51.82	3.05	3.05	100	J981719	1	<0.01	21.2	0.06	1.72	
51.82	54.86	3.04	2.91	96	J981720	1	<0.01	50.0	0.08	2.27	
54.86	57.91	3.05	2.91	95	J981721	1	<0.01	58.9	0.55	3.37	
/	/	/	/	/	J981722	1	<0.01	1.6	<0.01	0.09	BLANK
57.91	59.00	1.09	1.08	99	J981723	1	<0.01	30.7	0.07	1.47	
/	/	/	/	/	J981724	1	0.21	1890.0	2.04	161	STANDARD M-1
59.00	59.50	0.50	0.50	100	J981725	1	0.01	113.0	0.49	2.09	
59.50	60.96	1.46	1.41	97	J981726	1	0.01	100.5	0.14	4.59	
60.96	64.01	3.05	2.89	95	J981727	1	<0.01	25.1	0.06	2.94	
64.01	67.06	3.05	2.96	97	J981728	1	<0.01	19.0	0.05	2.02	
/	/	/	/	/	J981729	1	0.44	4300.0	1.99	249	STANDARD M-2
67.06	70.10	3.04	2.97	98	J981730	1	0.01	29.2	0.05	2.48	
70.10	72.70	2.60	2.53	97	J981731	1	<0.01	67.0	0.05	3.39	
72.70	73.70	1.00	0.97	97	J981732	1	0.08	953.0	0.48	7.75	
73.70	76.20	2.50	2.31	92	J981733	1	0.01	202.0	0.11	23.2	
76.20	79.25	3.05	2.92	96	J981734	1	<0.01	17.8	0.06	1.11	
79.25	82.30	3.05	2.82	92	J981735	1	<0.01	128.0	0.36	5.59	
82.30	85.34	3.04	3.03	100	J981736	2	0.01	102.5	0.12	5.23	
85.34	88.15	2.81	2.81	100	J981737	2	<0.01	35.9	0.11	2.17	
88.15	89.15	1.00	1.00	100	J981738	2	<0.01	19.9	0.07	1.27	
89.15	91.44	2.29	2.20	96	J981739	2	0.04	322.0	0.17	26.3	
91.44	94.49	3.05	2.85	93	J981740	2	0.03	380.0	0.16	25.1	
94.49	97.54	3.05	2.92	96	J981741	2	0.01	164.5	0.07	27.1	
97.54	100.58	3.04	2.97	98	J981742	2	0.01	206.0	0.12	26.5	
100.58	102.83	2.25	2.23	99	J981743	2	0.01	141.5	0.07	14.8	
/	/	/	/	/	J981744	2	0.44	4350.0	2.11	251	STANDARS M-2
102.83	103.83	1.00	0.89	89	J981745	2	0.01	153.5	0.06	23.5	
103.83	106.68	2.85	2.83	99	J981746	2	0.01	81.8	0.08	6.74	
106.68	109.73	3.05	3.01	99	J981747	2	<0.01	23.9	0.06	1.23	
109.73	112.78	3.05	3.01	99	J981748	2	<0.01	48.1	0.07	1.55	
112.78	115.82	3.04	2.99	98	J981749	2	<0.01	25.8	0.05	1.5	
115.82	118.87	3.05	3.01	99	J981750	2	0.01	16.2	0.06	1.91	
118.87	121.92	3.05	2.97	97	J981751	2	<0.01	28.0	0.05	1.44	
121.92	124.97	3.05	3.03	99	J981752	2	<0.01	24.2	0.05	1.38	
124.97	128.02	3.05	2.89	95	J981753	2	<0.01	16.6	0.09	1.65	
/	/	/	/	/	J981754	2	0.21	1840.0	1.97	160	STANDARD M-1
128.02	131.06	3.04	2.97	98	J981755	2	<0.01	17.5	0.12	2.67	

SAMPLE LOG

131.06	134.11	3.05	2.48	81	J981756	2	0.01	144.5	0.23	7.17	
134.11	136.11	2.00	1.66	83	J981757	2	0.01	89.9	0.18	7.51	
136.11	137.16	1.05	1.01	96	J981758	2	0.01	218.0	0.14	36.7	
137.16	140.21	3.05	2.10	69	J981759	2	0.02	435.0	0.21	113.5	
/	/	/	/	/	J981760	2	<0.01	2.0	<0.01	0.32	BLANK
140.21	142.90	2.69	2.12	79	J981761	2	0.02	230.0	0.12	32.4	
142.90	144.78	1.88	1.72	91	J981762	2	<0.01	17.0	0.05	3.7	
144.78	147.83	3.05	2.80	92	J981763	2	<0.01	22.8	0.06	6.14	
147.83	149.35	1.52	1.52	100	J981764	2	<0.01	20.9	0.09	2.51	
149.35	152.40	3.05	3.04	100	J981765	2	<0.01	79.4	0.13	1.58	
152.40	155.45	3.05	2.95	97	J981766	2	0.01	205.0	0.92	15.35	
155.45	158.50	3.05	2.85	93	J981767	2	<0.01	23.4	0.16	2.18	
/	/	/	/	/	J981768	2	<0.01	2.0	0.01	0.07	BLANK
158.50	160.63	2.13	2.09	98	J981769	2	<0.01	20.1	0.08	4.79	
158.50	160.63	2.13	2.09	98	J981770	2	<0.01	22.5	0.11	3.19	DUPLICATE
160.63	163.37	2.74	2.46	90	J981771	2	<0.01	38.6	0.14	6.09	
/	/	/	/	/	J981772	3	0.19	1905.0	2.03	150.50	STANDARD M-1
163.37	165.20	1.83	1.78	97	J981773	3	0.08	36.8	0.46	2.78	
165.20	167.64	2.44	2.35	96	J981774	3	<0.01	19.9	0.16	2.54	
167.64	169.47	1.83	1.56	85	J981775	3	0.01	16.5	0.07	1.3	
169.47	172.52	3.05	3.05	100	J981776	3	<0.01	25.5	0.08	5.01	
172.52	175.56	3.04	3.00	99	J981777	3	0.02	113.0	0.09	3.47	
175.56	176.78	1.22	1.22	100	J981778	3	<0.01	144.0	0.2	3.39	
176.78	179.83	3.05	2.82	92	J981779	3	<0.01	42.2	0.09	2.32	
176.78	179.83	3.05	2.82	92	J981780	3	<0.01	52.2	0.34	2.62	DUPLICATE
179.83	182.88	3.05	2.87	94	J981781	3	0.01	40.7	0.06	9.68	
182.88	185.26	2.38	2.27	95	J981782	3	<0.01	103.0	0.08	4.81	
/	/	/	/	/	J981783	3	<0.01	1.3	0.02	0.21	BLANK
185.26	187.00	1.74	1.67	96	J981784	3	<0.01	60.5	0.05	2.64	
187.00	188.98	1.98	1.83	92	J981785	3	<0.01	32.3	0.05	2.08	
188.98	192.02	3.04	2.85	94	J981786	3	0.01	29.8	0.06	2.85	
192.02	195.07	3.05	2.99	98	J981787	3	<0.01	31.3	0.08	13.35	
195.07	198.12	3.05	2.83	93	J981788	3	<0.01	41.5	0.07	11.65	
198.12	201.17	3.05	2.95	97	J981789	3	<0.01	18.7	0.06	8.24	
201.17	204.22	3.05	3.00	98	J981790	3	<0.01	39.4	0.05	3.14	
204.22	207.26	3.04	2.84	93	J981791	3	0.01	24.4	0.05	1.83	
/	/	/	/	/	J981792	3	<0.01	1.3	0.02	0.06	BLANK
207.26	210.31	3.05	2.95	97	J981793	3	<0.01	33.6	0.07	2.89	
210.31	211.65	1.34	1.25	93	J981794	3	0.05	269.0	1.52	24.2	
211.65	213.36	1.71	1.69	99	J981795	3	<0.01	83.9	0.27	15.5	
213.36	216.41	3.05	2.85	93	J981796	3	<0.01	58.3	0.14	18.05	
216.41	218.85	2.44	2.44	100	J981797	3	<0.01	62.4	0.18	8.03	
218.85	221.89	3.04	2.87	94	J981798	3	0.01	15.4	0.03	7.93	
221.89	224.94	3.05	2.96	97	J981799	3	<0.01	12.1	0.03	3.98	
224.94	225.86	0.92	0.89	97	J981800	3	<0.01	12.4	0.03	4.85	
/	/	/	/	/	J981801	3	0.42	4650.0	2.36	261	STANDARD M-2
225.86	228.60	2.74	2.58	94	J981802	3	<0.01	24.1	0.18	10.2	
228.60	230.43	1.83	1.70	93	J981803	3	<0.01	20.6	0.09	2.68	
230.43	231.95	1.52	1.47	97	J981804	3	<0.01	25.5	0.08	6.21	
231.95	235.00	3.05	2.80	92	J981805	3	<0.01	32.4	0.1	6.06	
235.00	237.44	2.44	1.96	80	J981806	3	<0.01	9.9	0.08	5.26	
237.44	240.49	3.05	2.82	92	J981807	3	0.01	81.9	0.53	4.49	
240.49	242.29	1.80	1.60	89	J981808	4	<0.01	18.2	0.2	5.71	
242.29	243.84	1.55	1.30	84	J981809	4	0.02	139.0	0.97	81	
243.84	246.89	3.05	2.42	79	J981810	4	<0.01	14.7	0.04	5.54	
246.89	249.94	3.05	2.52	83	J981811	4	0.01	10.9	0.04	8.11	
249.94	252.98	3.04	2.98	98	J981812	4	<0.01	12.2	0.05	14.85	
252.98	256.03	3.05	2.60	85	J981813	4	<0.01	10.7	0.03	15	
256.03	259.08	3.05	2.92	96	J981814	4	<0.01	6.8	0.03	7.55	
259.08	262.13	3.05	2.63	86	J981815	4	<0.01	10.4	0.04	14.85	
262.13	263.37	1.24	1.21	98	J981816	4	<0.01	9.8	0.05	2.42	

SAMPLE LOG

263.37	265.18	1.81	1.69	93	J981817	4	<0.01	5.8	0.1	6.76	
265.18	268.22	3.04	2.85	94	J981818	4	<0.01	56.3	0.08	10.6	
268.22	271.27	3.05	2.99	98	J981819	4	0.01	81.3	0.73	15.2	
/	/	/	/	/	J981820	4	<0.01	1.9	0.01	0.15	BLANK
271.27	274.32	3.05	3.05	100	J981821	4	<0.01	122.0	0.25	4.36	
274.32	277.37	3.05	2.98	98	J981822	4	0.01	91.1	0.23	12.75	
277.37	280.42	3.05	2.70	89	J981823	4	<0.01	238.0	0.38	2.66	
/	/	/	/	/	J981824	4	0.46	4450.0	2.02	251	STANDARD M-2
280.42	283.46	3.04	2.94	97	J981825	4	<0.01	48.2	0.36	5.7	
283.46	286.00	2.54	2.19	86	J981826	4	<0.01	79.8	0.1	7.26	
286.00	287.32	1.34	1.34	100	J981827	4	<0.01	24.9	0.04	9.39	
287.34	289.56	2.22	2.22	100	J981828	4	<0.01	44.5	0.07	12.2	
289.56	291.94	2.38	2.24	94	J981829	4	<0.01	85.1	0.16	22.9	
/	/	/	/	/	J981830	4	0.22	1940.0	1.93	159.5	STANDARD M-1
291.94	293.00	1.06	1.02	96	J981831	4	<0.01	30.8	0.06	16	
293.00	295.66	2.66	2.41	91	J981832	4	<0.01	258.0	0.21	19.65	
293.00	295.66	2.66	2.41	91	J981833	4	<0.01	273.0	0.2	19.55	DUPLICATE
295.66	298.70	3.04	2.95	97	J981834	4	<0.01	86.4	0.11	21.1	
/	/	/	/	/	J981835	4	<0.01	1.9	<0.01	0.14	BLANK
298.70	301.75	3.05	2.68	88	J981836	4	0.01	144.0	1.51	32.4	
301.75	304.80	3.05	2.96	97	J981837	4	<0.01	221.0	0.38	7.77	
304.80	306.32	1.52	1.37	90	J981838	4	<0.01	219.0	0.35	4.08	

SAMPLE LOG

2° Structure Type	From (m)	To (m)	Attitude (TCA)	Attitude (TRFE)	Count	MINERALS		DESCRIPTION	Photo
						Type	Conc. (%)		
FR	2.57	73.70	60	n/a				Calcite and chlorite fracture fills, usually <1 mm wide with variable orientations, generally 55-60 degrees TCA though some as shallow as 15 degrees, variable amounts of fracturing from a few per meter to 30.	
FR	2.57	73.70	50	180				No reference fabric to measure against. Secondary orientation of calcite-chlorite fracture fills, 30-60 degrees TCA, 180 degrees to primary fracture orientation, often rusty where open.	
FR	17.73		35		1	Hm Ca		Pink, powdery coating on irregular fracture face at 17.73 m, potassic/hemiatitic? Fracture is oriented 35 degrees TCA.	
VT	19.93		50	180	1			Brick red and white, 2cm wide veinlet oriented 50 degrees TCA, MG to CG hematite and calcite. Coarse, irregular Ca grains in MG-CG rusty brick red hematite matrix with trace vFG-FG yellow metallic sulfides. Veinlet crosscut by calcite healed fractures oriented 180 degrees to veinlet.	
BN	2.57	73.70	30					Pink K-Spar bands and selvages along fractures, some up to 6 cm wide, variably oriented, generally 30 degrees TCA.	
VT	59.30		15			Py Cp	5 5	CG white and green calcite-chlorite veinlet with bright, CG Py and chalcopyrite, 2 mm wide oriented 15 degrees TCA. sulfides in VT limonitic on fracture face that crosscuts veinlet.	
FR	73.70	76.20	20		4			Shallow, <1 mm healed fractures with calcite/chlorite.sulfides, 10-30 degrees TCA with FG silvery yellow sulfide grains.	
FR	73.70	76.20	60	0	3			Open fracture with rusty colored platy calcite and FG-MG silvery yellow sulfide grains, 60 degrees TCA, 0 degrees to shallow fractures described above.	
VT	88.81		40		2			Qz VT, opaque white Qz 1 mm-3mm wide, 30 to 40 degrees TCA, 2 found at 88.81 m.	
FR	76.20	89.15	40					Open rusty fractures with platy calcite/chlorite and oxidized sulfides, variably oriented, most commonly at 40 degrees TCA.	
FR	76.20	89.15	50	270				2nd orientation to fractures, 50 degrees TCA, 270 degrees to primary orientation.	
BD	89.15	103.83	75					Relict bedding, narrow interbeds and laminations evident in hornfels, 80 to 70 degrees TCA, defined by lighter purple-brown and darker purple-brown beds.	
FR	89.15	101.80						Ca-chlorite fractures with variable Cp and Py, variably oriented, most commonly 35-50 degrees TCA, <1 mm to 1 mm wide. 2ndary orientation 20-40 degrees TCA, 80 and 180 degrees to primary fractures.	
BX	101.80	103.83						cBX to mBX with random orientation, chloritic BX matrix with variable amounts of calcite and silvery yellow sulfides. A green halo along cBX structures gives core an mBX texture where cBX strongest. BX is crosscut by fractures described above.	
FR	103.83	136.11	50					Healed fractures, calcite-chlorite with variable orientations, <1 mm to 1 mm wide at times with visible sulfides. Major orientations 40-60 degrees TCA, 2ndary 20-40 degrees TCA, 60 to 80 degrees to primary fracture orientation.	

[illegible]

From (m)	To (m)	Interval (m)	Recovery (m)	Recover (%)	RQD (m)	RQD (%)	Weathering	Hardness	DESCRIPTION
0.00	3.05	3.05	0.48	16	0.00	0	MW	MS	
3.05	6.12	3.07	2.06	67	0.29	9	MW	MS	
6.10	8.53	2.43	1.97	81	1.30	53	MW	MS	
8.53	9.75	1.22	0.89	73	0.21	17	MW	MS	
9.75	12.80	3.05	2.46	81	0.72	24	MW	MS	
12.80	13.72	0.92	0.92	100	0.44	48	MW	MS	
13.72	15.24	1.52	0.98	64	0.15	10	MW	MS	
15.24	18.29	3.05	2.16	71	0.48	16	SW	MS	
18.29	21.34	3.05	2.32	76	0.55	18	SW	MS	
21.34	24.38	3.04	2.65	87	0.62	20	SW	MS	
24.38	27.43	3.05	2.96	97	0.74	24	FR	MS	
27.43	30.48	3.05	2.67	88	0.61	20	FR	MS	
30.48	33.53	3.05	2.97	97	1.45	48	FR	MS	
33.53	36.58	3.05	2.95	97	2.15	70	FR	MS	
36.58	39.62	3.04	2.72	89	1.98	65	FR	MS	
39.62	42.67	3.05	2.97	97	1.80	59	FR	MS	
42.67	45.72	3.05	2.74	90	1.41	46	FR	MS	
45.72	48.77	3.05	2.71	89	1.36	45	FR	MS	
48.77	51.82	3.05	3.05	100	2.70	89	FR	MS	
51.82	54.86	3.04	2.91	96	2.41	79	FR	MS	
54.86	57.91	3.05	2.91	95	2.58	85	FR	MS	
57.91	60.96	3.05	2.94	96	1.18	39	FR	MS	
60.96	64.01	3.05	2.89	95	2.38	78	FR	MS	
64.01	67.06	3.05	2.96	97	2.42	79	FR	MS	
67.06	70.10	3.04	2.97	98	2.78	91	FR	MS	
70.10	73.15	3.05	2.98	98	2.60	85	FR	MS	
73.15	76.20	3.05	2.86	94	1.18	39	FR	MS	
76.20	79.25	3.05	2.92	96	2.01	66	FR	MS	
79.25	82.30	3.05	2.82	92	1.61	53	SW	MS	
82.30	85.34	3.04	3.03	100	2.45	81	SW	MS	
85.34	88.39	3.05	3.05	100	2.49	82	SW	MS	
88.39	91.44	3.05	2.92	96	2.46	81	FR	MS	
91.44	94.49	3.05	2.85	93	1.68	55	SW	MS	
94.49	97.54	3.05	2.92	96	1.61	53	SW	MS	
97.54	100.58	3.04	2.97	98	2.35	77	SW	MS	
100.58	103.63	3.05	2.91	95	2.75	90	SW	MS	
103.63	106.68	3.05	3.05	100	2.05	67	SW	MS	
106.68	109.73	3.05	3.01	99	2.84	93	FR	MS	
109.73	112.78	3.05	3.01	99	2.72	89	FR	MS	
112.78	115.82	3.04	2.99	98	2.91	96	FR	MS	
115.82	118.87	3.05	3.01	99	2.40	79	FR	MS	
118.87	121.92	3.05	2.97	97	2.43	80	FR	MS	
121.92	124.97	3.05	3.03	99	2.13	70	FR	MS	
124.97	128.02	3.05	2.89	95	2.26	74	FR	MS	

128.02	131.06	3.04	2.97	98	2.72	89	FR	MS	
131.06	134.11	3.05	2.48	81	0.63	21	SW	MS	
134.11	137.16	3.05	2.60	85	1.10	36	SW	MS	
137.16	140.21	3.05	2.10	69	0.10	3	MW	MS	
140.21	143.26	3.05	2.11	69	0.77	25	SW	MS	
143.26	144.78	1.52	1.49	98	0.73	48	FR	MS	
144.78	147.83	3.05	2.80	92	2.15	70	SW	MS	
147.83	149.35	1.52	1.52	100	1.40	92	SW	MS	
149.35	152.40	3.05	3.04	100	2.67	88	FR	MS	
152.40	155.45	3.05	2.95	97	1.23	40	SW	MS	
155.45	158.50	3.05	2.85	93	2.10	69	FR	MS	
158.50	160.63	2.13	2.09	98	0.80	38	FR	MS	
160.63	163.37	2.74	2.46	90	1.78	65	SW	MS	
163.37	165.20	1.83	1.78	97	0.93	51	SW	MS	
165.20	167.64	2.44	2.35	96	1.98	81	FR	MS	
167.64	169.47	1.83	1.56	85	1.05	57	SW	MS	
169.47	172.52	3.05	3.05	100	2.66	87	SW	MS	
172.52	175.56	3.04	3.00	99	2.34	77	FR	MS	
175.56	176.78	1.22	1.22	100	1.22	100	SW	MS	
176.78	179.83	3.05	2.82	92	2.01	66	FR	MS	
179.83	182.88	3.05	2.87	94	2.25	74	SW	MS	
182.88	185.93	3.05	2.93	96	1.75	57	FR	MS	
185.93	188.98	3.05	2.87	94	2.15	70	FR	S	
188.98	192.02	3.04	2.85	94	1.84	61	FR	S	
192.02	195.07	3.05	2.99	98	2.24	73	FR	S	
195.07	198.12	3.05	2.83	93	1.67	55	FR	S	
198.12	201.17	3.05	2.95	97	2.50	82	FR	S	
201.17	204.22	3.05	3.00	98	2.08	68	FR	S	
204.22	207.26	3.04	2.84	93	1.15	38	FR	S	
207.26	210.31	3.05	2.95	97	0.98	32	FR	S	
210.31	213.36	3.05	2.94	96	1.75	57	SW	S	
213.36	216.41	3.05	2.85	93	1.12	37	SW	S	
216.41	218.85	2.44	2.44	100	1.95	80	FR	S	
218.85	221.89	3.04	2.87	94	2.02	66	FR	S	
221.89	224.94	3.05	2.96	97	2.61	86	FR	S	
224.94	225.86	0.92	0.89	97	0.82	89	SW	S	
225.86	228.60	2.74	2.58	94	2.34	85	SW	S	
228.60	230.43	1.83	1.70	93	1.40	77	SW	S	
230.43	231.95	1.52	1.47	97	0.86	57	SW	S	
231.95	235.00	3.05	2.80	92	1.71	56	SW	S	
235.00	237.44	2.44	1.96	80	1.08	44	SW	S	
237.44	240.49	3.05	2.82	92	1.74	57	SW	S	
240.49	241.71	1.22	0.94	77	0.27	22	SW	S	
241.71	243.84	2.13	2.13	100	1.25	59	SW	S	
243.84	246.89	3.05	2.42	79	0.42	14	SW	S	
246.89	249.94	3.05	2.52	83	1.08	35	SW	S	
249.94	252.98	3.04	2.98	98	2.03	67	SW	MS	
252.98	256.03	3.05	2.60	85	0.95	31	SW	MS	
256.03	259.08	3.05	2.92	96	0.93	30	FR	MS	

HOLE NUMBER!

Depth (m)	Magnetic Susceptibility	DESCRIPTION
1	n/a	
2	n/a	
3	2.93	
4	2.19	
5	3.05	
6	8.11	
7	19.00	
8	18.30	
9	32.30	
10	10.10	
11	30.30	
12	15.70	
13	47.80	
14	33.10	
15	38.20	
16	1.35	
17	6.02	
18	3.19	
19	2.84	
20	2.62	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
21	6.23	
22	29.00	
23	37.10	
24	15.90	
25	9.81	
26	47.30	
27	30.10	
28	46.90	
29	52.20	
30	53.40	
31	62.30	
32	16.30	
33	52.90	
34	48.40	
35	27.80	
36	59.80	
37	57.80	
38	49.40	
39	73.00	
40	67.70	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
41	38.50	
42	25.10	
43	13.30	
44	15.50	
45	44.10	
46	7.25	
47	12.50	
48	14.70	
49	52.20	
50	76.80	
51	67.10	
52	27.90	
53	71.40	
54	67.40	
55	63.90	
56	29.90	
57	6.90	
58	44.20	
59	53.10	
60	22.80	

HOLE NUMBER!

Depth (m)	Magnetic Susceptibility	DESCRIPTION
61	22.80	
62	59.80	
63	24.00	
64	18.30	
65	67.80	
66	19.50	
67	57.20	
68	26.50	
69	3.42	
70	5.24	
71	13.40	
72	5.26	
73	26.30	xenolith
74	15.30	
75	67.60	
76	3.77	
77	3.07	
78	4.76	
79	2.89	
80	8.32	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
81	5.14	
82	3.75	
83	5.14	
84	48.80	
85	70.70	
86	57.00	
87	3.85	
88	3.11	
89	3.32	
90	7.81	
91	3.15	
92	10.50	
93	29.40	
94	10.90	
95	1.78	
96	10.40	
97	9.18	
98	12.40	
99	7.44	
100	6.66	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
101	3.58	
102	6.35	
103	5.55	
104	6.72	
105	2.02	
106	54.20	
107	3.28	
108	3.44	
109	3.69	
110	3.07	
111	2.29	
112	2.43	
113	1.59	
114	5.22	
115	1.53	
116	14.00	
117	24.50	
118	2.48	
119	6.49	
120	3.52	

HOLE NUMBER!

Depth (m)	Magnetic Susceptibility	DESCRIPTION
121	23.00	
122	1.76	
123	1.14	
124	6.31	
125	7.40	
126	4.49	
127	1.29	
128	3.95	
129	45.30	
130	3.40	
131	2.31	
132	60.60	
133	1.92	
134	22.00	
135	9.98	
136	3.56	
137	3.28	
138	2.68	
139	3.28	
140	5.76	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
141	3.75	
142	2.70	
143	2.60	
144	6.84	
145	38.90	
146	38.60	
147	49.60	
148	36.90	
149	4.85	
150	5.35	
151	7.01	
152	4.63	
153	5.45	
154	4.59	
155	19.30	
156	4.07	
157	27.80	
158	3.01	
159	0.00	
160	38.90	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
161	37.60	
162	46.20	
163	52.90	
164	32.20	
165	31.80	
166	37.80	
167	31.50	
168	46.80	
169	30.50	
170	36.20	
171	42.20	
172	37.20	
173	43.90	
174	32.00	
175	15.40	
176	19.30	
177	31.40	
178	47.90	
179	36.20	
180	48.00	

HOLE NUMBER!

Depth (m)	Magnetic Susceptibility	DESCRIPTION
181	12.80	
182	3.62	
183	2.23	
184	38.60	
185	61.80	
186	60.50	
187	52.10	
188	10.80	
189	25.30	
190	20.60	
191	7.13	
192	7.54	
193	5.69	
194	10.90	
195	7.17	
196	12.20	
197	9.08	
198	7.05	
199	3.95	
200	5.94	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
201	5.69	
202	6.84	
203	96.30	
204	5.06	
205	4.51	
206	3.34	
207	53.30	
208	12.80	
209	18.80	
210	14.30	
211	2.60	
212	10.20	
213	47.70	
214	10.80	
215	57.90	
216	30.20	
217	31.90	
218	54.80	
219	1.68	
220	1.86	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
221	2.13	
222	2.64	
223	42.20	
224	44.90	
225	8.20	
226	11.30	
227	18.80	
228	50.10	
229	32.80	
230	56.30	
231	38.50	
232	44.50	
233	66.00	
234	11.90	
235	2.15	
236	3.09	
237	2.93	
238	4.46	
239	5.51	
240	3.77	

HOLE NUMBER!

Depth (m)	Magnetic Susceptibility	DESCRIPTION
241	3.46	
242	6.21	
243	3.48	
244	4.79	
245	3.93	
246	30.90	
247	3.71	
248	4.28	
249	10.70	
250	25.50	
251	27.80	
252	37.00	
253	31.40	
254	40.30	
255	37.00	
256	34.90	
257	33.70	
258	34.00	
259	29.30	
260	13.70	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
261	32.10	
262	31.20	
263	47.40	
264	3.09	
265	4.65	
266	4.42	
267	4.85	
268	3.07	
269	3.93	
270	3.99	
271	5.43	
272	34.40	
273	3.97	
274	10.10	
275	3.25	
276	24.60	
277	51.50	
278	5.08	
279	3.01	
280	17.50	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
281	4.18	
282	4.75	
283	4.55	
284	2.41	
285	12.20	
286	47.80	
287	5.37	
288	3.17	
289	3.46	
290	24.90	
291	63.50	
292	2.39	
293	3.91	
294	5.20	
295	14.40	
296	12.20	
297	0.32	
298	8.28	
299	10.50	
300	8.38	

HOLE NUMBER!

[illegible]

Hole: _____

Box #	From (m)	To (m)	Photo Taken
1	2.57	8.00	x
2	8.00	13.38	x
3	13.38	17.73	x
4	17.73	22.51	x
5	22.51	27.10	x
6	27.10	31.58	x
7	31.58	36.76	x
8	36.76	42.05	x
9	42.05	47.15	x
10	47.15	52.39	x
11	52.39	27.75	x
12	57.75	62.45	x
13	62.45	67.83	x
14	67.83	73.24	x
15	73.24	78.55	x
16	78.55	84.02	x
17	84.02	89.13	x
18	89.13	94.36	x
19	94.36	99.23	x
20	99.23	104.42	x
21	104.42	109.73	x
22	109.73	115.16	x
23	115.16	120.70	x

Page ____ of ____

Box #	From (m)	To (m)	Photo Taken
24	120.70	125.90	x
25	125.90	131.11	x
26	131.11	136.13	x
27	136.13	140.15	x
28	140.55	145.17	x
29	145.17	150.57	x
30	150.57	155.82	x
31	155.82	161.00	x
32	161.00	166.41	x
33	166.41	171.72	x
34	171.72	176.92	x
35	176.92	182.45	x
36	182.45	187.23	x
37	187.23	192.02	x
38	192.02	196.89	x
39	196.89	202.00	x
40	202.00	206.92	x
41	206.92	211.64	x
42	211.64	216.86	x
43	216.86	221.89	x
44	221.89	227.60	x
45	227.60	233.05	x
46	233.05	237.84	x

BOX LOG

[illegible][illegible]

BOX LOG

ZONE: _____

Grid East	Grid North	Easting	Northing	Elev. (m)	Depth (m)
		509126	6795502	1362	329.18

SECTION: _____

HOLE: **MARS-10-02**

CLAIM: _____

Contractor: Beaudoin

Drill: _____

Core size: BTW

Casing depth: _____ in/out

Drilling dates: Sept. 12th to Sept. 19th, 2011

Geology logged by: K. Unger

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
0	45	-45	Compass				

TARGET: Mars Cu-Au-Mo Porphyry

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.05	3.05	OVb	
3.05	18.97	15.92	HFL	
18.97	31.92	12.95	INT	
31.92	95.05	63.13	HFL	
95.05	113.18	18.13	MZN	
113.18	145.25	32.07	HFL	
145.25	176.53	31.28	MZN	
176.53	198.45	21.92	VOL	
198.45	288.60	90.15	MZN	
288.60	298.58	9.98	MZN/INT	
298.58	315.9	17.32	INT	
315.90	329.18	13.28	MZN	

SAMPLES
Numbers: J981839-J981899, L836051-L836130
Total: <u>141</u>
Batch: <u>4, 5, 6, 7, 8</u>
Date Sent: _____
Certificate: _____

COMMENTS

INTERVAL			LITHOLOGY					ALTERATION		MINERALS		DESCRIPTION	Photo
Type	From (m)	To (m)	Unit	Grain Size	Shade	Colour	Texture	Type	Intensity	Type	Conc. (%)		
G	0.00	3.05	OVB									OVB/casing, no recovery.	
G	3.05	145.25	HFL			PU GN		CHL OX	3 1	Py	0.1	Purple brown to green, FG to CG hornfels crosscut by green, FG to CG intrusive rock. Relict bedding variable seen throughout, though often obscured by hornfels alteration. Green dykes typically FG to MG, <50 cm wide with irregular margins, though widths of 3 m for CG dykes is also seen. Sulfides seen within some healed fractures and as FG disseminations within HFL and INT bodies. Some white-yellow sulfides associated a soft, black, FG mineral in some healed fractures. Core is blocky, rubbly to competent with variable recovery throughout. Most fractures are lined with calcite and appear rusty, oxidation pervasive along fractures.	
D	18.97	31.92	INT	CG		GN		SIL CHL	4 3			Green, CG intrusive with light grey tabular to ovoid grains within green FG matrix with irregular black mafic minerals (<10%). Core at times is hard and cloudy in appearance, exhibiting SIL alteration. Trace sulfides present as FG to MG disseminations of silver to white-yellow grains, and as fracture fills with calcite or a soft black mineral. Contacts defined by breccia textures up to 1.4 m in width into HFL. Strong CHL alteration halo along margins of intrusive.	
D	95.05	113.18	MZN	CG		GY PK		POT	3	Py	0.1	Grey brown to pink, MG to CG quartz poor MZN with white to creamy, tabular phenocrysts ~1mm in size in a grey-pink matrix with irregular and variably oriented calcite healed fractures. Pink potassic alteration present along selvages of fractures appearing pervasive where fracturing is strongest. Silvery yellow flecks of sulfides present as disseminations, as aggregates forming blobs with sooty black tints in calcite veinlets. Core is competent to blocky, open fractures lined with platy, dirty calcite and powdery grey-yellow minerals (clay?) with occasional green chlorite. Some open fractures are rusty. Core is variably magnetic throughout, strong where black subhedral grains of magnetite visible in MZN.	
D	113.18	145.25	HFL	FG		PU GY		SIL CHL	3 2	Py	0.5	Purple-brown to grey-green variably SIL altered and fractured HFL. Relict bedding is visible, appearing cryptic where SIL is strongest, appearing swaly and deformed where fracturing increases. Stockwork fracturing variable throughout, mineralized fractures seen 0 degrees to 70 degrees TCA. CHL alteration is present on margins of fractures filled with calcite and pyrite.	
G	145.25	176.53	MZN	CG		GY		CHL OX	3 2	Py Cp	0.5 0.1	Grey to green, CG MZN with phenocrysts of white to grey feldspar with variably MG to CG mafics in grey to grey-green matrix. Matrix is FG with FG disseminated white-yellow sulfides. Mafics are euhedral when CG, more irregular when MG. Some patches of pink, potassic alteration are present in widths up to 10 cm with zones of green altered rock and where calcite healed fractures are higher in frequency. Some blocks and clasts of xenoliths/HFLs 1 cm to 2.2 cm in size scattered throughout. Open fractures are variably oxidized. Core is weathered most where most broken, patchy malachite visible on fractures faces where core is most oxidized. Trace Cp in some calcite-chlorite veinlets, often with subhedral, MG to CG grains of pyrite. Rare instances of Py appear more brassy and irregular in crystal habit (bornite?) in veinlets with chalcopyrite. sulfides are FG to CG, visible on almost all fracture faces fresh and old. Some red hematitic alteration present on some weathered fractures.	
										MI	0.01		
D	160.20	163.00	MZN	CG		OR GY		OX	4			Rusty orange to grey oxidized MZN. Fracture faces rusty brown and limonitic, orange oxidation pervasive as halos on fractures to rubbly bands of core seen up to 1.5 m wide. Core is blocky to rubbly, black, orange and green oxidized minerals present on fracture faces throughout.	

INTERVAL			LITHOLOGY					ALTERATION		MINERALS		DESCRIPTION	Photo
Type	From (m)	To (m)	Unit	Grain Size	Shade	Colour	Texture	Type	Intensity	Type	Conc. (%)		
G	176.53	198.45	VOL	FG		GN						Green, FG to CG laminated to thinly bedded siltstone VOL(hornfels?) with fine sandy beds. Rock is dark green to green-grey alternating beds <1 mm to 3.5 cm thick. Core is variably fractured by intermittent black cBX throughout. White calcite filled stockwork-like veinlets with some sulfides throughout, chalcopyrite is present as MG to CG grains in calcite veinlets. Yellow pyrite is seen as FG disseminations and CG euhedral cubes on fractures and veinlets along black cBX structures. Some fracture faces exhibit rusty OX alteration, most appear black with platy yellow-white pyrite patches.	
G	198.45	329.18	MZN	CG		GY PK		CHL POT	3 3	Cp Mo Py	0.5 0.05 0.5	Grey to pink, CG, variably fractured MZN cut by several dark green, MG to FG dykes. Narrow stockwork veinlets variably oriented and intermittent throughout. White calcite veinlets uphole become sulfide veinlets with depth, locally sulfide concentrations up to 5% on 30 cm scale, typically ~1% or less throughout. Brilliant metallic yellow chalcopyrite present as irregular blebs and veinlets alone or with Ca-Py-chlorite. Mo is present as very soft metallic silvery stockwork veinlets and fracture linings where core is pink and potassic altered. Py is present as euhedral disseminations to CG grains in some calcite veinlets. Pink K-spar alteration seen as halos along fractures, pervasive where fracturing is strongest. Green CHL alteration of MZN is seen on margin of dykes. Core is variably magnetic, with narrow magnetite veinlets can pull magnet from fingers to patches with disseminated magnetite in MZN or dykes. Some fractures filled with red hematitic minerals, some open fractures are rusty and host limonite rims around partially weathered grains of sulfides. Dykes up to 4 m wide, margins are variably oriented. Core becomes more albitic with depth (?), appearing lighter in colour, mafic grains appear altered to epidote and chlorite in albitic alteration.	
D	288.60	298.58	MZN/INT	CG		GY GN		ALB CHL	4 3	Cp	0.5	Grey to green, CG albitized (?) MZN with CG white and grey feldspar phenocrysts with irregular, green-grey CHL/epidote altered mafics. Bands of pink K-spar are overprinted by albitization, mafics in K-spar appear same as mafics in albite altered core. Healed fractures are variably oriented and scattered throughout, appearing rusty where open. Core is moderately magnetic with disseminated magnetite. Trace Cp present in healed fractures and as blebs in narrow dykes <20 cm in width, and as disseminations associated with altered mafic grains. Some brown secondary(?) biotite appears to replace mafics under handlens.	
D	298.58	315.90	MZN	MG	DK	GN GY		CHL OX	4 1	Cp Py	0.1 0.1	Core is more green and finer grained (dyke?) with patches of potassic alteration less frequent and narrower than uphole. Core is variably magnetic as irregular veinlets and disseminations of magnetite are scattered throughout. Fracture faces are rusty, some halos of OX alteration are up to 2 mm wide. Sulfides are less evident than up hole, but still visible with handlens in narrow healed fractures. Hematitic masses and veinlets are scattered throughout, most common as veinlets but can form nebulous masses with dark green chlorite up to 4.4 cm in width. Calcite healed fractures are seen throughout.	
D	315.90	329.18	MZN	CG	DK	GY PK		POT OX	2 1	Py	0.1	Dark grey to pink, CG MZN. Core is strongly magnetic throughout with disseminated CG magnetite. Potassic alteration is moderate to strong, most commonly seen as dark pink selvages on healed fractures. Trace euhedral MG-CG Py with calcite filled fractures and veinlets, often with potassic altered pink selvages. Some fractures are open and weathered with rusty yellow and red coatings.	
												EOH.	

[illegible]

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Cu (g/t)	Ag (ppm)	Mo (ppm)	Comments
3.05	6.10	3.05	0.81	27	J981839	4	<0.01	165	0.1	8.47	
6.10	9.14	3.04	2.20	72	J981840	4	0.02	233	0.09	4.92	
9.14	12.19	3.05	2.41	79	J981841	4	<0.01	121	0.03	11.1	
12.19	15.24	3.05	1.85	61	J981842	4	0.01	117	0.05	9.71	
15.24	18.29	3.05	1.90	62	J981843	4	<0.01	118.5	0.07	14.55	
/	/	/	/	/	J981844	5	0.19	1705	1.73	142	STANDARD M-1
18.29	21.34	3.05	2.51	82	J981845	5	0.03	563	0.34	21	
21.34	24.38	3.04	2.66	88	J981846	5	0.02	274	0.2	5.38	
24.38	27.43	3.05	2.44	80	J981847	5	0.01	111	0.1	3.51	
27.43	30.48	3.05	2.38	78	J981848	5	0.02	202	0.13	4.56	
30.48	33.53	3.05	2.09	69	J981849	5	<0.01	66.3	0.03	6.8	
33.53	36.58	3.05	2.21	72	J981850	5	<0.01	111	0.06	6.23	
36.58	39.62	3.04	0.85	28	J981851	5	<0.01	131	0.08	7.04	
39.62	42.67	3.05	2.10	69	J981852	5	0.01	126.5	0.12	12	
42.67	45.72	3.05	1.52	50	J981853	5	0.01	111.5	0.18	19.75	
45.72	48.77	3.05	2.76	90	J981854	5	<0.01	59.7	0.03	6.32	
/	/	/	/	/	J981855	5	<0.01	1.7	<0.01	0.1	BLANK
48.77	51.82	3.05	2.72	89	J981856	5	<0.01	76.9	0.05	4.45	
51.82	54.86	3.04	2.44	80	J981857	5	0.01	84.6	0.04	7.03	
54.86	57.91	3.05	2.91	95	J981858	5	<0.01	86.7	0.03	9.07	
57.91	60.96	3.05	2.82	92	J981859	5	<0.01	97.9	0.03	9.61	
60.96	64.01	3.05	2.93	96	J981860	5	0.02	137	0.04	10.6	
60.96	64.01	3.05	2.93	96	J981861	5	<0.01	131.5	0.04	11.2	DUPLICATE
64.01	67.06	3.05	2.75	90	J981862	5	<0.01	153.5	0.03	8.64	
67.06	70.10	3.04	2.63	87	J981863	5	<0.01	98.8	0.03	10.7	
70.10	73.15	3.05	2.73	90	J981864	5	<0.01	93.6	0.03	12.1	
73.15	76.20	3.05	2.72	89	J981865	5	<0.01	94	0.03	10.45	
76.20	79.25	3.05	2.95	97	J981866	5	<0.01	113.5	0.05	11.85	
79.25	82.30	3.05	2.60	85	J981867	5	0.02	89.8	0.03	13.05	
82.30	85.34	3.04	2.76	91	J981868	5	<0.01	194.5	0.1	15.95	
85.34	88.39	3.05	2.94	96	J981869	5	0.01	139	0.06	18.75	
/	/	/	/	/	J981870	5	<0.01	2.6	<0.01	0.19	BLANK
88.39	91.44	3.05	2.77	91	J981871	5	0.06	117.5	0.09	18	
91.44	93.00	1.56	1.45	93	J981872	5	<0.01	108.5	0.03	12.55	
93.00	95.05	2.05	1.87	91	J981873	5	<0.01	131	0.05	22	
/	/	/	/	/	J981874	5	0.2	1805	2.09	149.5	STANDARD M-1
95.05	97.54	2.49	2.19	88	J981875	5	<0.01	16.3	0.06	5.32	
97.54	100.58	3.04	3.04	100	J981876	5	<0.01	45.4	0.06	1.66	
100.58	103.63	3.05	2.94	96	J981877	5	<0.01	23	0.07	3.14	
103.63	106.68	3.05	2.78	91	J981878	5	<0.01	17	0.06	6.98	
106.68	109.73	3.05	2.99	98	J981879	5	<0.01	20.7	0.19	5.13	
109.73	112.00	2.27	2.24	99	J981880	6	0.02	256	0.12	21.5	
112.00	113.18	1.18	1.18	100	J981881	6	0.01	304	0.09	9.12	
113.18	115.82	2.64	2.40	91	J981882	6	0.01	195.5	0.11	12.5	
115.82	118.87	3.05	2.98	98	J981883	6	0.03	147.5	0.12	9.71	
/	/	/	/	/	J981884	6	<0.01	1.5	<0.01	0.11	BLANK
118.87	121.92	3.05	2.80	92	J981885	6	0.09	113	0.18	10	
121.92	124.97	3.05	3.01	99	J981886	6	0.01	180	0.11	20.1	

124.97	128.02	3.05	2.75	90	J981887	6	0.03	376	0.15	23.5	
128.02	131.06	3.04	2.91	96	J981888	6	0.04	677	0.2	21.1	
131.06	134.11	3.05	2.44	80	J981889	6	0.02	176.5	0.07	54.7	
134.11	137.16	3.05	2.54	83	J981890	6	0.04	202	0.08	21.9	
137.16	140.21	3.05	2.93	96	J981891	6	0.01	198.5	0.06	22.5	
140.21	143.26	3.05	2.92	96	J981892	6	0.01	225	0.07	24.7	
143.26	145.26	2.00	1.63	82	J981893	6	0.01	244	0.07	28.9	
143.26	145.26	2.00	1.63	82	J981894	6	0.02	251	0.11	26.8	DUPLICATE
/	/	/	/	/	J981895	6	0.23	1780	1.94	152.5	STANDARD M-1
145.26	146.84	1.58	1.58	100	J981896	6	0.03	370	0.17	11.75	
146.84	149.35	2.51	2.05	82	J981897	6	0.01	450	0.64	113.5	
149.35	152.25	2.90	2.25	78	J981898	6	0.01	398	0.67	44.9	
152.25	154.00	1.75	1.74	99	J981899	6	0.03	541	0.96	340	
154.00	155.95	1.95	1.95	100	L836051	6	0.01	239	0.34	25.9	
/	/	/	/	/	L836052	6	0.48	4450	2.15	248	STANDARD M-2
155.95	158.50	2.55	2.45	96	L836053	6	0.04	692	1.46	191	
158.50	160.20	1.70	1.38	81	L836054	6	0.03	367	0.5	372	
/	/	/	/	/	L836055	6	<0.01	2.6	<0.01	0.97	BLANK
160.20	163.00	2.80	2.15	77	L836056	6	0.02	562	1.94	214	
163.00	164.59	1.59	1.49	94	L836057	6	0.03	342	0.32	137	
164.59	167.64	3.05	2.66	87	L836058	6	0.03	279	0.16	87.9	
167.64	170.69	3.05	3.01	99	L836059	6	0.01	124.5	0.1	66.2	
170.69	173.74	3.05	3.04	100	L836060	6	0.03	281	0.17	64.8	
173.74	176.53	2.79	2.79	100	L836061	6	0.01	180.5	0.15	91.8	
176.53	178.03	1.50	1.42	95	L836062	6	0.02	424	0.12	90.9	
178.03	179.83	1.80	1.80	100	L836063	6	0.05	633	0.28	51.5	
179.83	182.88	3.05	3.05	100	L836064	6	0.19	1675	1.31	209	
182.88	185.93	3.05	2.99	98	L836065	6	0.11	606	0.22	36.5	
185.93	188.98	3.05	2.82	92	L836066	6	0.14	976	0.42	118	
188.98	192.02	3.04	3.04	100	L836067	7	0.2	1800	0.54	55.1	
192.02	195.07	3.05	2.90	95	L836068	7	0.04	278	0.1	35.4	
195.07	197.00	1.93	1.90	98	L836069	7	0.26	1685	0.52	42.2	
197.00	198.45	1.45	1.42	98	L836070	7	2.09	7180	3.37	1865	
198.45	200.30	1.85	1.80	97	L836071	7	0.24	1825	6.24	416	
200.30	202.90	2.60	2.59	100	L836072	7	0.08	1155	1.11	627	
202.90	205.10	2.20	2.20	100	L836073	7	0.01	334	0.19	38.4	
205.10	207.26	2.16	2.09	97	L836074	7	0.03	375	0.33	38.9	
207.26	210.31	3.05	3.00	98	L836075	7	0.04	381	0.21	49.8	
210.31	213.36	3.05	3.04	100	L836076	7	0.03	219	0.18	19.15	
/	/	/	/	/	L836077	7	<0.01	3.6	0.01	0.73	BLANK
213.36	216.41	3.05	2.88	94	L836078	7	0.02	419	0.49	16.45	
216.41	219.46	3.05	2.98	98	L836079	7	0.05	765	0.87	15.05	
219.46	222.50	3.04	2.70	89	L836080	7	0.03	239	0.44	9.71	
222.50	224.23	1.73	1.65	95	L836081	7	0.04	412	0.24	26.4	
224.23	225.55	1.32	1.27	96	L836082		0.18	1575	0.99	77.1	
225.55	228.60	3.05	3.03	99	L836083	7	0.26	2350	1.03	86.8	
228.60	231.65	3.05	3.05	100	L836084	7	0.21	3470	3.47	401	
231.65	234.70	3.05	2.94	96	L836085	7	0.04	573	0.88	57.5	
234.70	236.67	1.97	1.86	94	L836086	7	0.06	2240	3	21.9	
/	/	/	/	/	L836087	7	0.47	4730	2.27	258	STANDARD M-2
236.67	238.98	2.31	2.31	100	L836088	7	0.26	4440	2.73	1030	
238.98	241.40	2.42	2.42	100	L836089	7	0.08	777	0.29	34.4	
241.40	243.75	2.35	2.35	100	L836090	7	0.01	61.1	0.05	13.1	

243.75	245.05	1.30	1.28	98	L836091	7	0.01	170.5	0.12	6.9	
245.05	246.89	1.84	1.79	97	L836092	7	0.01	201	0.09	7.08	
246.89	249.94	3.05	2.95	97	L836093	7	0.01	96.5	0.17	11.9	
/	/	/	/	/	L836094	7	0.28	2000	2.05	172.5	STANDARD M-1
249.94	252.98	3.04	2.97	98	L836095	7	0.03	83.1	0.23	8.88	
252.98	256.03	3.05	2.88	94	L836096	7	0.03	1980	4.35	30.5	
256.03	259.08	3.05	2.98	98	L836097	7	0.01	223	0.24	22.7	
256.03	259.08	3.05	2.98	98	L836098	7	0.01	271	0.25	18.4	DUPLICATE
259.08	262.13	3.05	3.01	99	L836099	7	0.01	390	0.2	31.6	
/	/	/	/	/	L836100	7	<0.01	3.9	0.01	0.58	BLANK
262.13	265.18	3.05	2.97	97	L836101	7	0.02	689	1.01	78.7	
265.18	268.22	3.04	2.95	97	L836102	7	0.02	437	0.54	17	
268.22	271.27	3.05	3.05	100	L836103	8	<0.01	157	0.34	5.53	
271.27	274.32	3.05	2.94	96	L836104	8	0.01	384	1.01	51.2	
274.32	277.37	3.05	2.98	98	L836105	8	<0.01	207	0.36	53.7	
277.37	278.90	1.53	1.50	98	L836106	8	<0.01	137.5	1.12	15.65	
/	/	/	/	/	L836107	8	<0.01	1.7	0.01	0.23	BLANK
278.90	281.90	3.00	2.78	93	L836108	8	0.04	1265	0.82	5.4	
281.90	283.46	1.56	1.44	92	L836109	8	0.01	210	0.28	11.55	
283.46	286.51	3.05	2.98	98	L836110	8	<0.01	86.1	0.27	18	
286.51	288.60	2.09	2.09	100	L836111	8	<0.01	94.9	0.21	25.5	
288.60	291.60	3.00	2.71	90	L836112	8	<0.01	181	0.17	50.3	
291.60	294.60	3.00	2.10	70	L836113	8	<0.01	150.5	0.1	60.5	
/	/	/	/	/	L836114	8	0.22	1780	1.81	151.5	STANDARD M-1
294.60	295.66	1.06	1.04	98	L836115	8	<0.01	164	0.18	98.1	
295.66	298.58	2.92	2.79	96	L836116	8	<0.01	204	0.17	25.7	
298.58	299.90	1.32	1.32	100	L836117	8	0.01	660	0.81	24	
299.90	301.75	1.85	1.71	92	L836118	8	<0.01	295	0.4	13.1	
299.90	301.75	1.85	1.71	92	L836119	8	<0.01	332	0.44	11.35	DUPLICATE
301.75	304.80	3.05	2.96	97	L836120	8	<0.01	112	0.19	9.05	
304.80	307.85	3.05	3.00	98	L836121	8	0.01	411	0.23	16.85	
307.85	310.90	3.05	2.89	95	L836122	8	<0.01	111	0.18	11	
/	/	/	/	/	L836123	8	<0.01	2.6	<0.01	0.11	BLANK
310.90	313.94	3.04	3.04	100	L836124	8	0.01	520	1.03	77.7	
313.94	316.99	3.05	2.81	92	L836125	8	0.01	196	0.31	8.68	
316.99	320.04	3.05	2.97	97	L836126	8	0.04	166.5	0.38	12.95	
/	/	/	/	/	L836127	8	0.22	1840	1.97	159	STANDARD M-1
320.04	323.09	3.05	2.73	90	L836128	8	0.01	139.5	0.19	8.59	
323.09	326.14	3.05	2.93	96	L836129	8	<0.01	64.7	0.1	9.3	
326.14	329.18	3.04	2.99	98	L836130	8	0.01	83.6	0.2	2.02	

2° Structure Type	From (m)	To (m)	Attitude (TCA)	Attitude (TRFE)	Count	MINERALS		DESCRIPTION	Photo
						Type	Conc. (%)		
BD	33.00	33.07	70					Defined by dark and light purple brown interbeds and laminations, 70 degrees TCA.	
BD	47.12	48.15	70					Defined by dark and light purple brown interbeds and laminations, 70 degrees TCA.	
FR	3.05	95.05	40					A prominent fracture orientation throughout, often with metallic yellow-white platy sulfides lining fractures, variably calcareous, 40 degrees TCA, crosscutting intrusions.	
FR	3.05	95.05	60	90				55 to 70 degrees TCA, ~90 degrees to primary fracture orientation, lined with metallic yellow-white platy sulfides.	
FR	3.05		n/a	n/a				Fractures/veinlets variably oriented crosscutting relationships are unclear, variably sulfide bearing, ~10 to 70 degrees TCA.	
BN	87.65	87.93	20					Parallel fractures with irregular, white and green, Ca-Chl filled irregular fractures inbetween parallel fractures oriented 20 degrees TCA with trace pyrite. Irregular fractures between parallel fractures also host pyrite.	
FR	95.05	113.18	50					White calcite filled fractures, major orientation 45-65 degrees TCA, most commonly 50 degrees TCA with trace flecks of metallic yellow Py grains.	
FR	95.05	113.18	20	30				2ndary orientation, 20 degrees TCA, 30 degrees to primary fracture orientation.	
FR	109.30	110.45	5					Angular, <1 mm wide black fractures with patchy hematitic selvages, 0 to 15 degrees TCA, most commonly shallower.	
BD	113.18	145.25	70					Relict bedding in purple-brown hornfels, 65-70 degrees TCA.	
FR	113.18	145.25	15	270				1-3 mm wide Py with calcite margins. Veinlets/fracture fills oriented 0 to 30 degrees TCA, MG yellow Py grains in center of veinlets, ~270 degrees to BD.	
FR	113.18	145.25	70	n/a				Where fracturing is stronger, a secondary orientation is seen, 65-70 degrees TCA in stockwork patches with SIL alteration.	
FR	145.25	176.53	25					White calcite filled fractures/veinlets, intermittent and variable throughout, major orientation is 20-30 degrees TCA, <1 mm to 2.5 mm wide, angular and brittle with chlorite-chalcopyrite-pyrite.	
FR	145.25	176.53	60					<1 mm wide healed fractures, sometimes calcareous, sometimes with black minerals, 60-65 degrees TCA crosscut by white veinlets described above, ~180 degrees to fractures.	
BD	176.53	198.45	45					Strong bedding fabric, 35-55 degrees TCA, some offsets up to 3 mm along healed fractures with parallel orientation seen.	
FR	176.53	198.45	50	270				Parallel fractures with variable density, small offsets are seen along some fractures, 40-50 degrees TCA, ~270 degrees to BD. Trace Cp seen along some fractures.	
								White calcite fracture fills, irregular, <1mm to 2.5 mm with variable Cp, chlorite and Py, primarily 50-65 degrees TCA but seen 0 to 80 degrees TCA, up to 30 per meter.	

FR	198.45		55					2ndary orientation, 30 degrees TCA, 180 degrees to primary orientation.
FR	198.45		30	180				
FR	200.65	201.00	30		5			Open fracture lines with very soft, silver-purple molybdenum, 30 degrees TCA, 4 other healed fractures with similar amounts of moly within 15 cm of this open fracture.
VN	216.38		60					White calcite and green chlorite vein, 1.1 cm wide, <1% Cp, 60 degreeed TCA.
VT	217.60		10					<1mm to 2 mm, irregular veinlet/stringer, 0 degrees TCA to 15 degrees, chlorite-chalcopryite and calcite composition.
FR	231.19	233.55	60					Red hematitic healed fractures, <1 mm to 1 mm wide, primary orientation are 60 to 65 degrees TCA.
VT	236.74		n/a					Molly filled <1 mm to 1 mm wide dstockwork veinlets with random orientation over 23 cm.
VN	237.89		80					1 cm to 2.9 cm wide calcite-chalcopryite-molybdenum vein, Mo rims(?) irregular Cp grains, core smells earthy when wet (clay alteration).
VN	198.45		40					1.5 cm wide dark green and metallic yellow chlorite-Cp vein with trace Mo, irregular blebs of Cp with dark green and black chlorite with MG blebs of Mo scattered throughout. Vein defines contact between bedded SLT and MZN.
VN	203.61		30	n/a				CG whtie calcite vein, 30 degrees TCA, 6 cm thick, margins are soft light green clay up to 1.5 cm wide.
VN	311.85		40					White Ca-Qz vein, 40 degrees TCA, 4.8 cm thick with red hematitic bands on margins. Open centre of vein hosts drusy translucent Qz prisms. Margins locally brecciate green altered MZN core.

From (m)	To (m)	Interval (m)	Recovery (m)	Recover (%)	RQD (m)	RQD (%)	Weathering	Hardness	DESCRIPTION
3.05	6.10	3.05	0.81	27	0	8	MW	MS	
6.10	9.14	3.04	2.2	72	0.59	19	MW	MS	
9.14	12.19	3.05	2.41	79	0.6	20	MW	MS	
12.19	15.24	3.05	1.85	61	0.36	12	SW	MS	
15.24	18.29	3.05	1.9	62	0.32	10	SW	MS	
18.29	21.34	3.05	2.51	82	0.78	26	SW	MS	
21.34	24.38	3.04	2.66	88	1	33	SW	MS	
24.38	27.43	3.05	2.44	80	2.04	67	SW	MS	
27.43	30.48	3.05	2.38	78	1.42	47	SW	MS	
30.48	33.53	3.05	2.09	69	0.59	19	MW	MS	
33.53	36.58	3.05	2.21	72	0.44	14	MW	MS	
36.58	39.62	3.04	0.85	28	0.11	4	MW	MS	
39.62	42.67	3.05	2.1	69	0.12	4	MW	MS	
42.67	45.72	3.05	1.52	50	0.14	5	MW	MS	
45.72	48.77	3.05	2.76	90	0.96	31	MW	MS	
48.77	51.82	3.05	2.72	89	0.9	30	SW	MS	
51.82	54.86	3.04	2.44	80	0.43	14	SW	MS	
54.86	57.91	3.05	2.91	95	1.66	54	SW	MS	
57.91	60.96	3.05	2.82	92	1.94	64	SW	MS	
60.96	64.01	3.05	2.93	96	1.75	57	SW	MS	
64.01	67.06	3.05	2.75	90	1.66	54	SW	MS	
67.06	70.10	3.04	2.63	87	1.08	36	SW	MS	
70.10	73.15	3.05	2.73	90	1.4	46	SW	MS	
73.15	76.20	3.05	2.72	89	0.63	21	SW	MS	
76.20	79.25	3.05	2.95	97	0.75	25	SW	MS	
79.25	82.30	3.05	2.6	85	1.26	41	SW	MS	
82.30	85.34	3.04	2.76	91	0.92	30	SW	MS	
85.34	88.39	3.05	2.94	96	2.52	83	SW	MS	
88.39	91.44	3.05	2.77	91	1.2	39	SW	MS	
91.44	94.49	3.05	2.75	90	1.35	44	SW	MS	
94.49	97.54	3.05	2.6	85	0.86	28	SW	MS	
97.54	100.58	3.04	3.04	100	2.89	95	SW	MS	
100.58	103.63	3.05	2.94	96	2.68	88	SW	MS	
103.63	106.68	3.05	2.78	91	0.71	23	SW	MS	
106.68	109.73	3.05	2.99	98	2.69	88	SW	MS	
109.73	112.78	3.05	3.05	100	2.42	79	SW	MS	
112.78	115.82	3.04	2.97	98	1.77	58	SW	MS	
115.82	118.87	3.05	2.98	98	0.76	25	SW	MS	
118.87	121.92	3.05	2.8	92	1.28	42	FR	MS	
121.92	124.97	3.05	3.01	99	1.97	65	SW	MS	
124.97	128.02	3.05	2.75	90	0.86	28	SW	MS	
128.02	131.06	3.04	2.91	96	1.08	36	SW	MS	
131.06	134.11	3.05	2.44	80	0.35	11	SW	MS	
134.11	137.16	3.05	2.54	83	0.21	7	SW	MS	
137.16	140.21	3.05	2.93	96	1.23	40	SW	MS	
140.21	143.26	3.05	2.92	96	1.67	55	SW	MS	

HOLE NUMBER!

GEOTECHNICAL LOG

143.26	146.30	3.04	2.59	85	0.88	29	SW	MS
146.30	149.35	3.05	2.74	90	1.45	48	MW	MS
149.35	152.40	3.05	2.55	84	0.78	26	SW	MS
152.40	155.45	3.05	3.05	100	2.77	91	SW	MS
155.45	158.50	3.05	3.01	99	1.82	60	SW	MS
158.50	161.51	3.01	2.7	90	1.03	34	SW	MS
161.51	164.59	3.08	2.3	75	0.97	31	MW	MS
164.59	167.64	3.05	2.66	87	0.75	25	SW	MS
167.64	170.69	3.05	3.01	99	2.62	86	SW	MS
170.69	173.74	3.05	3.04	100	2.54	83	SW	MS
173.74	176.78	3.04	3.04	100	1.72	57	SW	MS
176.78	179.83	3.05	3.01	99	2.37	78	SW	MS
179.83	182.88	3.05	3.05	100	2.3	75	SW	MS
182.88	185.93	3.05	2.99	98	2.27	74	SW	MS
185.93	188.98	3.05	2.82	92	0.57	19	SW	MS
188.98	192.02	3.04	3.04	100	2.78	91	FR	MS
192.02	195.07	3.05	2.9	95	1.77	58	FR	MS
195.07	198.12	3.05	2.97	97	1.91	63	SW	MS
198.12	201.17	3.05	2.94	96	2.05	67	SW	MS
201.17	204.22	3.05	2.92	96	1.99	65	SW	MS
204.22	207.26	3.04	2.99	98	2.43	80	FR	MS
207.26	210.31	3.05	3	98	2.45	80	FR	MS
210.31	213.36	3.05	3.04	100	1.92	63	FR	MS
213.36	216.41	3.05	2.88	94	1.23	40	SW	MS
216.41	219.46	3.05	2.98	98	1.98	65	SW	MS
219.46	222.50	3.04	2.7	89	1.33	44	FR	MS
222.50	225.55	3.05	2.99	98	2.74	90	FR	MS
225.55	228.60	3.05	3.03	99	1.85	61	FR	MS
228.60	231.65	3.05	3.05	100	2.82	92	FR	MS
231.65	234.70	3.05	2.94	96	1.81	59	FR	MS
234.70	237.74	3.04	2.89	95	2.19	72	SW	MS
237.74	240.79	3.05	3.05	100	1.93	63	SW	MS
240.79	243.84	3.05	3.05	100	2.67	88	SW	MS
243.84	246.89	3.05	3	98	2.2	72	SW	MS
246.89	249.94	3.05	2.95	97	2.59	85	SW	MS
249.94	252.98	3.04	2.97	98	2.41	79	SW	MS
252.98	256.03	3.05	2.88	94	2.56	84	SW	MS
256.03	259.08	3.05	2.98	98	2.47	81	SW	MS
259.08	262.13	3.05	3.01	99	2.9	95	SW	MS
262.13	265.18	3.05	2.97	97	2.17	71	SW	MS
265.18	268.22	3.04	2.95	97	2.35	77	SW	MS
268.22	271.27	3.05	3.05	100	2.36	77	SW	MS
271.27	274.32	3.05	2.94	96	2.61	86	SW	MS
274.32	277.37	3.05	2.98	98	2.74	90	SW	MS
277.37	280.42	3.05	2.84	93	1.6	52	SW	MS
280.42	283.46	3.04	2.83	93	1.8	59	SW	MS
283.46	286.51	3.05	2.98	98	2.4	79	SW	MS
286.51	289.56	3.05	3.02	99	2.49	82	SW	MS
289.56	292.61	3.05	2.55	84	1.43	47	MW	W
292.61	295.66	3.05	2.46	81	0.71	23	MW	W
295.66	298.70	3.04	2.91	96	1.5	49	MW	MS
298.70	301.75	3.05	2.94	96	2.72	89	SW	MS
301.75	304.80	3.05	2.96	97	2.79	91	SW	MS
304.80	307.85	3.05	3	98	1.71	56	SW	MS
307.85	310.90	3.05	2.89	95	2.45	80	SW	MS
310.90	313.94	3.04	3.04	100	3.04	100	SW	MS
313.94	316.99	3.05	2.81	92	1.52	50	SW	MS
316.99	320.04	3.05	2.97	97	2.74	90	SW	MS

HOLE NUMBER!

GEOTECHNICAL LOG

Depth (m)	Magnetic Susceptibility	DESCRIPTION
1	N/A	
2	N/A	
3	N/A	
4	N/A	No Complete Core
5	11.60	
6	6.78	
7	7.48	
8	12.50	
9	10.80	
10	5.20	
11	6.53	
12	6.84	
13	7.99	
14	7.38	
15	7.79	
16	N/A	No Complete Core
17	6.25	
18	4.65	
19	4.48	
20	3.28	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
21	1.86	
22	2.50	
23	4.94	
24	1.37	
25	4.34	
26	4.12	
27	2.25	
28	2.15	
29	6.31	
30	2.74	
31	3.07	
32	2.25	
33	1.76	
34	5.45	
35	4.28	
36	1.47	
37	4.77	
38	6.43	
39	2.95	
40	2.07	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
41	1.27	
42	2.27	
43	3.17	
44	1.78	
45	3.13	
46	2.74	
47	3.56	
48	4.89	
49	3.75	
50	2.28	
51	5.88	
52	3.52	
53	6.12	
54	3.44	
55	4.73	
56	6.68	
57	5.84	
58	6.45	
59	6.91	
60	6.78	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
61	5.53	
62	7.33	
63	9.75	
64	9.20	
65	2.91	
66	6.88	
67	10.90	
68	5.67	
69	11.20	
70	2.07	
71	5.18	
72	6.86	
73	8.93	
74	9.90	
75	6.02	
76	8.77	
77	8.75	
78	8.40	
79	5.18	
80	8.22	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
81	9.98	
82	9.49	
83	6.58	
84	4.53	
85	6.47	
86	8.63	
87	9.94	
88	5.82	
89	7.11	
90	1.96	
91	3.85	
92	12.10	
93	8.28	
94	3.17	
95	3.66	
96	12.40	
97	15.60	
98	27.60	
99	23.90	
100	14.90	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
101	18.80	
102	28.90	
103	28.40	
104	24.80	
105	33.00	
106	11.80	
107	24.60	
108	9.90	
109	5.82	
110	4.94	
111	16.40	
112	13.30	
113	12.10	
114	3.87	
115	2.39	
116	3.95	
117	4.38	
118	3.28	
119	3.46	
120	4.59	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
121	3.46	
122	3.95	
123	6.37	
124	9.63	
125	2.31	
126	3.99	
127	5.51	
128	25.40	
129	2.27	
130	3.44	
131	3.17	
132	2.89	
133	0.67	
134	2.37	
135	2.62	
136	3.66	
137	6.12	
138	6.10	
139	6.08	
140	5.49	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
141	5.24	
142	4.73	
143	7.83	
144	4.40	
145	3.28	
146	6.00	
147	4.51	
148	6.04	
149	3.54	
150	3.09	
151	2.19	
152	2.23	
153	3.99	
154	4.10	
155	3.13	
156	6.90	
157	2.25	
158	4.87	
159	4.20	
160	1.86	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
161	3.15	
162	6.08	
163	4.40	
164	4.34	
165	5.45	
166	4.69	
167	5.12	
168	6.27	
169	8.48	
170	5.37	
171	4.96	
172	2.64	
173	3.25	
174	3.30	
175	56.00	
176	5.16	
177	6.56	
178	2.91	
179	6.17	
180	5.18	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
181	10.30	
182	7.79	
183	7.66	
184	5.14	
185	8.58	
186	7.74	
187	3.56	
188	2.74	
189	5.22	
190	6.49	
191	7.46	
192	4.34	
193	4.83	
194	3.01	
195	2.43	
196	2.66	
197	3.38	
198	2.52	
199	12.10	
200	21.00	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
201	2.93	
202	8.87	
203	8.83	
204	2.25	
205	13.00	
206	13.90	
207	9.84	
208	5.47	
209	9.04	
210	8.61	
211	6.60	
212	8.05	
213	6.78	
214	6.08	
215	3.48	
216	9.90	
217	6.15	
218	10.70	
219	10.20	
220	17.80	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
221	15.10	
222	28.20	
223	4.12	
224	12.90	
225	86.10	
226	6.43	
227	11.40	
228	13.90	
229	16.90	
230	14.60	
231	114.00	
232	7.85	
233	4.83	
234	24.70	
235	57.20	
236	84.80	
237	4.44	
238	6.92	
239	54.40	
240	35.90	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
241	6.19	
242	30.20	
243	34.30	
244	4.44	
245	7.44	
246	27.20	
247	16.50	
248	18.60	
249	9.67	
250	20.90	
251	8.36	
252	63.40	
253	23.50	
254	11.40	
255	7.95	
256	12.50	
257	4.07	
258	1.90	
259	5.43	
260	5.65	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
261	3.64	
262	4.53	
263	4.96	
264	4.73	
265	73.00	
266	4.83	
267	4.48	
268	109.00	
269	171.00	
270	11.80	
271	49.60	
272	81.80	
273	75.60	
274	4.12	
275	4.05	
276	4.63	
277	7.03	
278	6.37	
279	169.00	
280	3.17	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
281	135.00	
282	2.70	
283	4.89	
284	5.38	
285	18.20	
286	3.58	
287	9.36	
288	3.85	
289	0.63	
290	2.64	
291	2.80	
292	6.06	
293	3.17	
294	3.56	
295	2.62	
296	2.21	
297	4.44	
298	5.04	
299	11.10	
300	4.73	

301	9.00	
302	4.10	
303	11.40	
304	4.59	
305	3.23	
306	32.90	
307	25.90	
308	48.50	
309	5.82	
310	19.60	
311	12.10	
312	18.30	
313	31.50	
314	36.60	
315	36.80	
316	2.13	
317	2.72	
318	4.67	
319	4.26	
320	3.75	

[illegible][illegible]

Box #	From (m)	To (m)	Photo Taken
1	3.05	9.90	x
2	9.90	14.60	x
3	14.60	18.20	x
4	18.20	23.32	x
5	23.32	29.12	x
6	29.12	36.25	x
7	36.25	42.50	x
8	42.50	46.90	x
9	46.90	51.52	x
10	51.52	56.71	x
11	56.71	62.05	x
12	62.05	67.00	x
13	67.00	72.82	x
14	72.82	77.35	x
15	77.35	81.94	x
16	81.94	86.70	x
17	86.70	91.44	x
18	91.44	96.84	x
19	96.84	101.81	x
20	101.81	106.68	x
21	106.68	112.36	x
22	112.36	117.05	x
23	117.05	121.92	x

Box #	From (m)	To (m)	Photo Taken
24	121.92	126.85	x
25	126.85	131.80	x
26	131.80	136.55	x
27	136.55	141.57	x
28	141.57	146.30	x
29	146.30	151.34	x
30	151.34	156.82	x
31	156.82	161.54	x
32	161.54	166.35	x
33	166.35	171.78	x
34	171.78	177.02	x
35	177.02	182.26	x
36	182.26	187.46	x
37	187.46	192.77	x
38	192.77	198.35	x
39	198.35	203.75	x
40	203.75	209.12	x
41	209.12	214.40	x
42	214.40	219.46	x
43	219.46	224.82	x
44	224.82	230.06	x
45	230.06	235.35	x
46	235.35	240.53	x

BOX LOG

QW29034

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 - 510 West Hastings Street
Vancouver, B.C. V6B 1L8

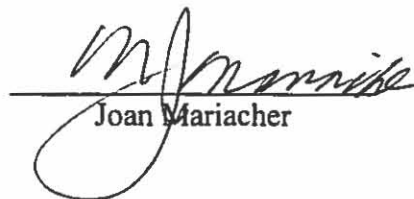
Telephone: 604-688-2568

Fax: 604-688-2578

AFFIDAVIT

I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of
Expenditures for exploration work on the DDH 1-16, Stars 1-34 and Star
35-77 mineral claims on claim sheet 105E/7 is accurate.


Joan Mariacher

Sworn before me at Vancouver, B.C.

this 16th day of February 2012.


Barrister & Solicitor

IAN J. TALBOT
Barrister & Solicitor
281 East 5th Street
North Vancouver
British Columbia
Canada V7L 1L8

Statement of Expenditures
DDH 1-16, Stars 1-34 and Star 35-77 Mineral Claims
February 13, 2012

Contract Diamond Drilling

Beaudoin Diamond Drilling Ltd.

\$102,469.75