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Ministry of Energy and Mines
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geochemical and Geological Survey Report **TOTAL COST:** $36,312.43

AUTHOR(S): Rick Kemp P.Geo **SIGNATURE(S):**

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): NA **YEAR OF WORK:** 2010

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 4848843, March 29, 2011

PROPERTY NAME: Grouse Mountain

CLAIM NAME(S) (on which the work was done): 542642

COMMODITIES SOUGHT: Copper, Zinc, Silver

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 93L026, 250, 254, 287, 288, 289, 294

MINING DIVISION: Omineca **NTS/BCGS:** 93L/10E / 093L057

LATITUDE: 54 ° 34 ' " **LONGITUDE:** 126 ° 44 ' " **(at centre of work)**

OWNER(S):
1) Steve Soby 2)

MAILING ADDRESS:
PO Box 4200
Smithers, BC VOJ-2NO

OPERATOR(S) [who paid for the work]:
1) Bard Ventures Ltd. 2)

MAILING ADDRESS:
800-1199 West Hastings Street
Vancouver, BC V6E-3T5

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
A sequence of NW striking felsic volcanic flows and breccia of the Telkwa Fm is overlain by volcanoclastic sediments of the Ashman Fm. These layered rocks have been intruded by granitic rocks correllative to the Bulkley Intrusions and NW trending dykes known as the Goosley Lake Intrusions.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 00726, 06429, 09087, 12374, 13720, 13777, 14256, 15242, 15999, 16401, 20665, 29505 and 31153.

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TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	1:5000 / 174ha	542642	$5,000.00
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil	402 / 36 Element ICP-MS	542642	$19,161.62
Silt			
Rock	1 / 35 Element ICP-ES	542642	$45.16
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying	403 Samples (Acme Labs)	542642	7,105.65
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)	Soil Grid 14.5 line km	542642	$5,000.00
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	36,312.43

GEOCHEMICAL and GEOLOGICAL SURVEY REPORT

on the

GROUSE MOUNTAIN PROPERTY

Tenure Nos. 542642

Omineca Mining Division

NTS: 93L/10E

BCGS Map Sheet: 093L057

Latitude: 54° 34′ N; Longitude 126° 44′ W

UTM (NAD 83): 6 048 000 N; 646 500 E; Zone 9

Property Owner: Stephen Soby

Agreement Holder and Operator: Bard Ventures Ltd.

Author: Rick Kemp, P.Geo.

March, 2011

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SECTION A: REPORT

INTRODUCTION:

The Grouse Mountain Property (the "Property") is a copper, zinc, silver prospect located on the east side of the Bulkley Valley some 19 km north-northwest of Houston, BC (Figure GM-10-1). It is held by Stephen Soby (the "Optionor") and Bard Ventures Ltd. ("Bard") acquired the right to earn a 100% interest in the Property, subject to a 2.5% Net Smelter Return Royalty, from the Optionor under the terms of an Option Agreement (the "Agreement") dated May 4, 2007. Bard may earn the 100% interest by carrying out aggregate exploration expenditures of $250,000, making cash payment of $10,000 and issuing an aggregate of 400,000 shares of Bard on or before October 31, 2011.

This report documents the results of a soil geochemical and reconnaissance mapping program located on the southwest facing slope of Grouse Mountain. The 2010 field program expanded on encouraging results obtained in 2009 with infill sampling across selected intervals of the 2009 soil grid resulting in a tighter sample density at 25m intervals. In addition, intermediate survey lines were emplaced between lines of the 2009 grid resulting in a grid line spacing of 100m across the northern half of the 2009 soil sampling grid. The 2010 field program re-established 8,775m of the 2009 soil grid and established five intermediate grid lines totalling 5,725m; a total of 402 soil samples and one rock sample were collected and submitted for analysis. The survey area encompassed 174 ha. All work was carried out on Tenure No. 542642.

PROPERTY:

The Grouse Mountain Property consists of seven mineral tenures (94 cells) (Figure GM-10-02) covering an area of 1763.3 hectares in the Omineca Mining Division of west-central British Columbia, 19 km north-northwest of Houston and approximately 38 km southeast of Smithers, BC. As illustrated in Figure GM-10-02, all of the mineral tenures are contiguous and centered at 54°34′ North Latitude and 126°44′ West Longitude in NTS map areas 93L/10, BCGS map sheet 093L057.

All of the current mineral tenures are registered in the name of Stephen Bjorn Soby. The configuration of the current claim holdings is shown in Figure GM-10-02 and details on the claim tenures are listed in Section B of this report. The Good to Dates are based on the Exploration and Development Work filed on March 29, 2011 as Event # 4848843 and assumes that the work contained in this report will be accepted for assessment purposes.

The property vendor, Stephen Soby ("Optionor"), entered into an Option Agreement with Bard Ventures Ltd ("Optionee") with respect to the subject seven mineral tenures on May 4, 2007. Pursuant to this Agreement, Bard Ventures Ltd. holds an option to acquire 100% of the right, title and interest of the Optionors in the Property subject to a 2.5% Net Smelter Return Royalty, by incurring aggregate exploration expenditures of $250,000, making a cash payment of $10,000 and issuing an aggregate of 400,000 shares in the capital of Bard on or before October 31, 2011.

LOCATION AND ACCESS:

The Grouse Mountain Property is easily accessible by road from either Smithers (40 km) or Houston (20 km) via Highway 16 which connects the major supply centre of Prince George located 320 km east of Houston with the deep sea port facilities at Prince Rupert, 465 km to the

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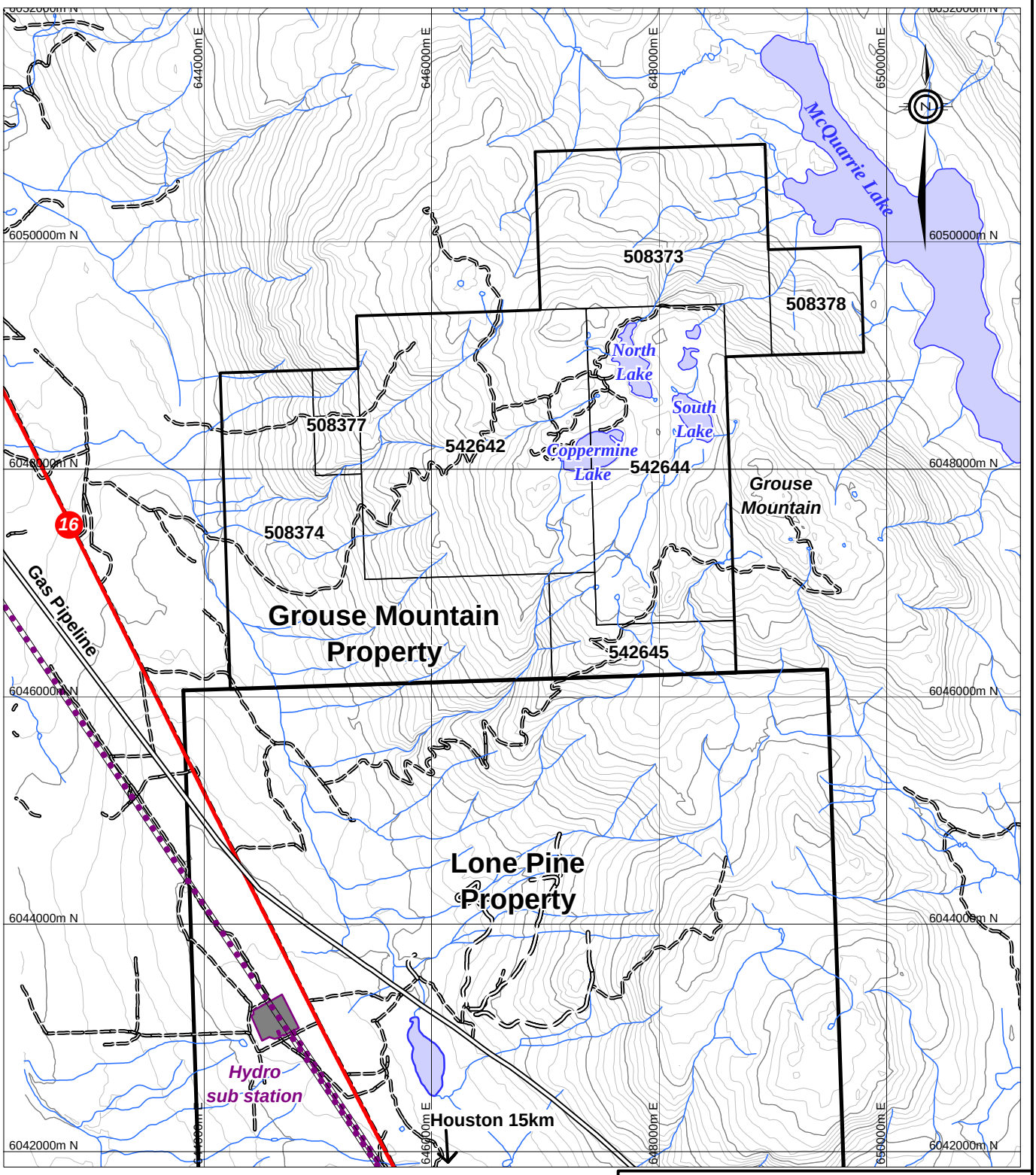
Omineca Mining Division

Location Map

Date	Feb 10, 2011	*Scale*	1:8,000,000	*Figure*
Projection	UTM Zone 9 - NAD83	*State/Province*	BC	GM-10-1
BCGS	093L07	*NTS*	093L047,057	
Author	MJD	*File*	GM_LocMap	



LEGEND

- power transmission line
- gas pipeline (underground)
- highway 16
- gravel road

0 500 1000 1500 2500
metres

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Claim Map

Date	Feb 10, 2011	Scale	1:50,000	Figure
Projection	UTM Zone 9 - NAD83	State/Province	BC	GM-10-2
BCGS	093L07	NTS	093L047,057	
Author	RK	File	GM_10Ass	

west. Highway 16 passes immediately to the west of the Property and access from Highway 16 is by a road that crosses the Dieleman Ranch and then climbs up through the central portion of the claim block in and around Coppermine Lake. (Figure GM-10-02).

Houston is the closest community to the Project area located 19 km to the SSE with a population of 3,600. CN railways main line passes through Houston from Prince George to the Pacific ports of Kitimat, Prince Rupert and Ridley Island. An airport is located in Houston serving small and medium sized aircraft and has been upgraded to accept jet aircraft. The largest supply centre in the area is the community of Smithers, located approximately 38 km to the northwest of the Property along Highway 16, with a population of 5,400. Daily scheduled air service is available from the Smithers airport. Most supplies and services are available from these two communities.

CLIMATE, TOPOGRAPHY AND VEGETATION:

The Property is located along the western slopes of the Grouse Mountain Range, a long southerly trending range which leads up to the broad gentle peak of Grouse Mountain, located immediately to the east of the Project area. Elevations range from approximately 700 m ASL in the southwest corner of the Property to approximately 1560 m ASL on the eastern side of the Property immediately to the west of the summit of Grouse Mountain.

The physiography of the project area is best described as moderately mountainous. The mountains are fairly rounded, with moderate to steep slopes. The slopes are well drained, but occasional swampy ground can be found in areas where the topography locally flattens. Vegetation in the lower areas on the claim block consists of grassy open meadows and local mixed deciduous/coniferous forest. The forests cover transitions to thick coniferous forest, comprised of mainly spruce, and hemlock above 850 m elevation. Outcrop exposure is best developed at higher elevations on steeper slopes and incised creeks. Three lakes, Coppermine, North and South are located in the east central portion of the claim block area with Coppermine Lake and South Lake draining to the southwest toward Thompson Creek and North Lake flowing out to the northeast in the direction of McQuarrie Lake. These lakes and creeks on the Property would provide adequate water supplies for drill programs.

The climate of the area features short cool summers and long, relatively mild winters. Annual temperature variation in the region is approximately -15 to + 22 degrees Celsius, snow pack during the winter months range from 1-4 m.

HISTORY:

The earliest references of exploratory work on the Grouse Mountain property are described in the Minister of Mines annual reports for 1914 when Louis Schorn and Samuel Bush discovered chalcopyrite and sphalerite on the mountain. Following the discovery, from 1914 to 1915, the Cassiar Copper Crown Company carried out extensive underground development work including a long crosscut with many short drives, crosscuts and raises on two different levels in the Ruby Zone. From 1915 to 1928 the property was explored by numerous shallow pits and open cuts resulting in the discovery of several new showings and documented in the Minister of Mines Annual Reports. In 1926, a sample of the mineralized zone at the Solo showing assayed 10.2 g/t gold, 75.4 g/t Ag and 26.5% Zn (Minister of Mines Annual Report 1926, page 38).

No further work was recorded until 1951 when Copper Ridge Silver Mines Ltd. acquired the property and reopened the underground workings completing over 4,600 m of drilling on surface and underground. The company also advanced underground development 1,300 m which was accessed by adits in the Ruby Zone. A period of intermittent exploration from 1952 to 1977 included mainly road building and bulldozer trenching until Ramm Venture Corporation acquired the crown grants in 1979. A review, at that time, of the extensive drilling in the Ruby Zone estimated a resource of 322,500 tons of 0.88 oz/ton Ag, 0.38% Cu and 4.25% Zn (Borovic, 1981). Ramm Ventures completed VLF-EM surveys over the Ruby, Copper Crown and Lakeview claims in 1980 and followed up resulting anomalies with 1282 m of diamond drilling in 1981.

Teck Corporation began a comprehensive exploration program of the crown grants and surrounding property in 1984. The program began with geophysical and geochemical surveys followed by geological mapping, mechanical trenching and sampling of trenches and showings. A total of 1260 soil geochemical samples, 109 rock chip samples were collected and analyzed. Trenching of anomalous areas with a backhoe totaled 442 m and 1896 m of diamond drilling was completed in 19 holes. The results of the drilling confirmed narrow vein mineralization (6.1% Zn over 1.2 m) in the Rainstorm Zone at depth in two holes spaced 300 m apart.

The Rainstorm Zone was the focus of a diamond drill program carried out by Swift Minerals Ltd. in 1990 following the recommendations by Peto (1984) in his final report for Teck. Six holes (1326 m) were drilled on the Rainstorm Zone and all intersected narrow widths of massive sulphide consisting of pyrite, sphalerite and chalcopyrite hosted in quartz carbonate veins and stringers. One hole was drilled to intersect and prove the continuity of the Ruby zone at depth. Mineralization in that hole returned values consistent with assays from the underground workings and shallow drill holes in the Ruby Zone and adds an inferred depth continuity of 250 m to the lowest workings of the Ruby Zone.

In 2007, Bard Ventures Ltd entered an option agreement with property owner Stephen Soby and completed a 3D Induced Polarization survey over the main showings in July of 2007. The program was contracted to SJ Geophysics who carried out the survey over seven 1800 m lines totalling 12.6 line km of mapped data. The 3D Induced Polarization survey was successful in confirming the known mineralized zones. The survey also provided support for under explored showings not within the main workings (Hidden Treasure, Solo). Another anomalous result of the survey was a poorly defined mineralized dyke or fault system trending north of the Copper Crown Zone and east of the Rainstorm Zone (which was out of the surveyed area) (Church, 2007).

In 2009 Bard Ventures Ltd expanded on the work done in 2007 by launching a grassroots exploration program on the largely underworked southwest-facing slope of Grouse Mountain. This program included an newly established grid system, analytical soil geochemistry and reconnaissance geological mapping.

A chronological summary of significant activities is described in table 1 below.

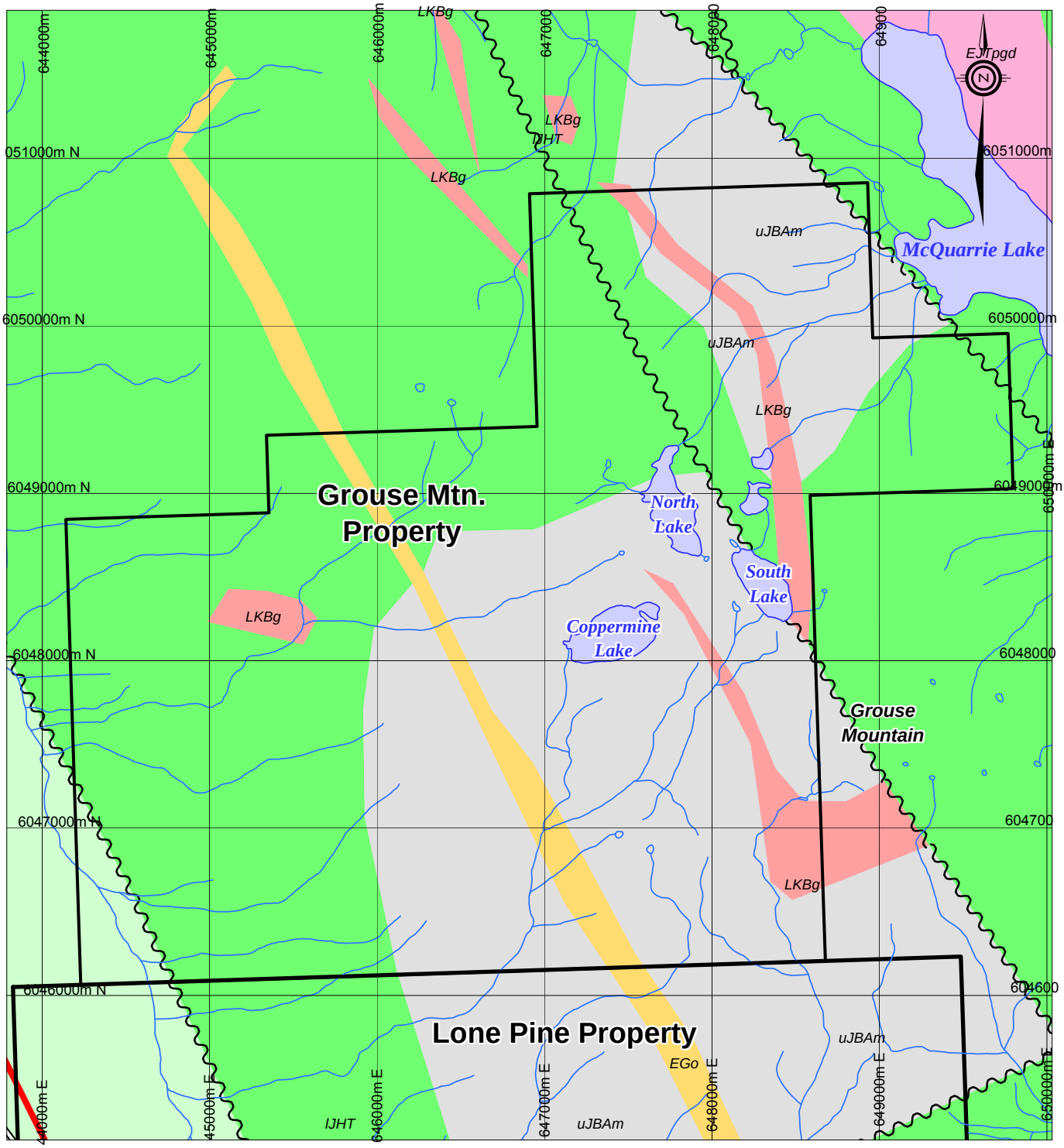
Table 1

Grouse Mountain Property: Summary of Significant Activities

Year	Operator / Company	Area, Zone or Showing	Type of Work
1914-15	Cassiar Crown Copper Company	Copper Crown, Lakeview, Schorn	17 m shaft and short adit developed on the Copper Crown. Adit started on the Lakeview showing. Surface trenching on mineralized veins.
1915-28	Cassiar Crown Copper Company	Copper Crown, Ruby, Eureka, Lakeview, Hidden Treasure, Solo	Two levels of u/g development in the Ruby zone consisting of 1150 m of drifting and raises. Drifting advanced 9 m on the Lakeview showing. Prospecting and trenching for mineralized veins.
1951	Copper Ridge Silver Mines Ltd.	Copper Crown, Ruby	4600 m of surface and u/g diamond drilling mostly at Ruby and Copper Crown zones. Additional 1300 m of u/g development on the Ruby zone.
1964-77	Various operators	Copper Crown, Ruby, Eureka, Lakeview, North Lake, Rainstorm	Prospecting, geological mapping, geophysical surveys, road building, bulldozer trenching.
1980-81	Ramm Venture Corporation	Copper Crown, Ruby, Eureka, Creek Zone	Geological mapping, geophysical surveys followed by 1282m diamond drilling in 14 holes.
1984	Teck Corporation	Copper Crown, Ruby, Eureka, Creek, North Lake, Schorn, Rainstorm	Geophysical and geochemical surveys, 442 m mechanical trenching, 1896 m of diamond drilling in 19 holes.
1990	Swift Minerals Ltd.	Rainstorm, Ruby	1783 m diamond drilling in 7 holes
2007	Bard Ventures Ltd.	Ruby, Copper Crown, Eureka	12.6 line km of 3D Induced Polarization Survey
2009	Bard Ventures Ltd.	Southwest slope of Grouse Mountain	Eight 340°/160° grid lines totaling 16.85 km 356 Soil Samples 6 Rock Samples Reconnaissance Outcrop Mapping

REGIONAL GEOLOGY:

The Grouse Mountain Property (Figure GM-10-3) is located in the Stikine Terrain within the intermontane tectonostratigraphic belt, and is dominantly underlain by Mesozoic Hazleton Group rocks of the Hazelton Trough. Locally the Hazelton Group is overlain by sedimentary rocks of the Upper Jurassic Bowser Lake Group, and underlain by Triassic Takla Group Island Arc derived Volcanic, and Volcano-sedimentary rocks. The Hazleton Group formed from late Triassic to mid Jurassic in an intra-Island Arc setting. These Mesozoic rocks are principally sub-aerial reddish brown to local greenish pyroclastics and flows intercalated with some Arc derived volcano-sedimentary and limited non-marine sedimentary rocks.



LEGEND

Cenozoic

- EJTpgd — Topley Plutonic Suite granodioritic intrusive rocks
- EGo — Goosly Plutonic Suite monzodioritic to gabbroic intrusive rocks

Endako Group

- EEBvb — Buck Creek Fm. basaltic volcanic rocks

Mesozoic

Hazelton Group

- IJHT — Telkwa Fm. volcanic rocks
- LKBg — Bulkley Plutonic Suite intrusive rocks

Bowser Lake Group

- uJBAm — Ashman Fm. mudstone, siltstone, shale fine clastic sedimentary rocks

fault

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Property Geology

Date	Feb 10, 2011	*Scale*	1:35,000	*Figure*
Projection	UTM Zone 9 - NAD83	*State/Province*	BC	GM-10-3
BCGS	093L07	*NTS*	093L047,057	
Author	RK	*File*	GM_09Ass	

Regional stratigraphic studies by Tipper and Richards (1976) indicate that the Telkwa Formation on Grouse Mountain belongs to the "Babine Shelf Facies" which forms the base of the Hazelton Group. The Telkwa Fm consists predominantly of subaqueous and subareal pyroclastic rocks intercalated with marine sediments and intravolcanic non-marine sediments. The volcanic rocks have calc-alkaline affinities and occur as subaqueous flows, breccias, and aquagene tuffs. The sediments consist of greywackes, siltstones, shales and minor limestone having an aggregate thickness of about 1,000m in the area. In the Grouse Mountain area the Babine shelf facies rocks have been assigned to the Lower Jurassic Telkwa formation, and these rocks all tend to exhibit a north-westerly strike.

Numerous intrusive stocks occur within the area with Mesozoic Topley granites having been emplaced contemporaneously with the Babine shelf Hazelton Group volcanics. In the late Cretaceous the Bulkley granitic and lesser gabbroic stocks, dykes, and plugs were emplaced within the older volcano-sedimentary stratigraphy. Granitic Tertiary intrusives are also present in limited extent which includes Eocene aged Goosly Lake monzodiorites and gabbros.

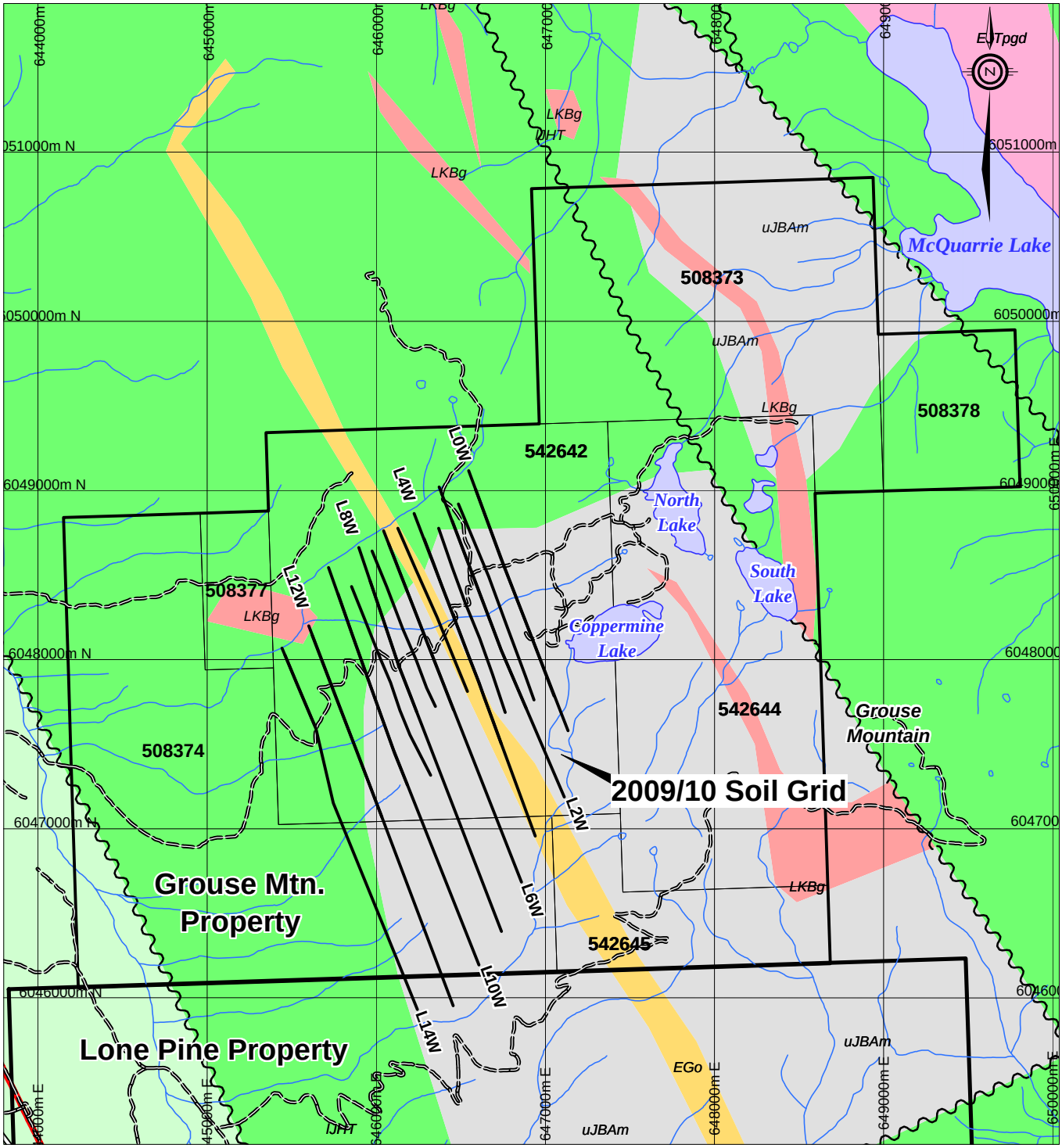
The dominant structure within the general area appears to be northwesterly striking normal faulting, with limited strike-slip displacement, with the subordinate fault set striking to the northeast.

PROPERTY GEOLOGY:

The Property (Figure GM-10-03) is primarily underlain by a sequence of northwesterly striking andesitic flows and pyroclastics, with lesser rhyolite and basalts of the Island Arc derived Telkwa formation of the Lower Jurassic Hazelton Group. Sedimentary rocks of the Upper Jurassic Bowser Lake Group have been mapped in the central area of the property and underlie the main showings and historical workings at the Copper Crown and Ruby Zones. The Bowser Lake Group is typically argillites, quartzite, and greywackes with local calcareous content. In general, the stratigraphic succession trends north north-west with variable dips probably due to block faulting or tilting. All of the aforementioned rocks are altered or hornfelsed, proximal to the contacts of Bulkley Intrusions that outcrop in the southeast and north central portions of the Property and which may underlie a thin veneer of hornfels elsewhere.

In the area of the old crown grants, at Ruby and Copper Crown, the area is underlain by a monotonous sequence of light green, fossiliferous, fine grained tuffaceous greywackes with interbedded siltstones and volcanoclastic breccias. Massive flows and flow breccias that outcrop near the summit are separated from well bedded, laminated, tuffaceous argillites to the southeast by a northwest trending pyritic fault zone in the central area of the claims. These units are intruded by a variety of northerly striking steeply dipping dykes ranging in composition from quartz monzonite to mafic feldspar porphyry. The northeasterly striking Cretaceous quartz monzonite dykes are considered to be an outlier of the quartz monzonite stock that hosts the mineralization at the Mineral Hill property located six kilometres to the south. Narrow (100-200m) northwesterly striking Tertiary dykes have a mafic biotite-rich matrix and distinctive feldspar phenocrysts up to four centimeters in length. The course grained feldspar porphyry is from a later phase of the Tertiary intrusions and is generally not mineralized. Church (1972) believes these intrusions are compositionally equivalent to the intrusions in the Goosley area and therefore of probable Eocene age.

Base metal mineralization consists of discordant quartz carbonate veins and fracture fillings hosting pyrite, sphalerite, chalcopyrite and minor galena. Mineralization is generally confined to



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Omineca Mining Division

2009/10 Geochem Survey Location Plan

Date	Feb 28, 2011	*Scale*	1:35,000	*Figure*
Projection	UTM Zone 9 - NAD83	*State/Province*	BC	GM-10-4
BCGS	093L07	*NTS*	093L047,057	
Author	RK	*File*	GM_10Ass	

fault zones in discontinuous lenses and pods up to 1.5m in width. Sulphides also occur as fracture fillings along sheeted fracture zones up to 15m wide where sulphide stringers range from 0.5 to 5 cm. Microscopic examination of samples by Vancouver Petrographics Ltd. (Peto, 1984) from the Ruby Zone determined that mineralization is consistent with that of hydrothermal systems in a volcanic pile. They also note that sulphides may have in part replaced some of the tuffaceous hosts where evidence of occasional bands of chalcopyrite in granular sphalerite is noted.

2010 SOIL GEOCHEMICAL and RECCONAISANCE MAPPING PROGRAM:

Bard Ventures Ltd. mobilized a crew to conduct a soil geochemical survey on the Grouse Mountain Property in August of 2010. In 2009, a soil grid was established on the southwest-facing slope of Grouse Mountain, which is to the west-southwest and down slope of known showings and zones of Cu-Zn-Ag mineralization. The surveyed grid consisted of 8 parallel lines spaced 200 m apart ranging in length from 1650 m to 2500 m and oriented along an azimuth of 340 degrees. Station spacing along the 2009 grid lines was every 50 m for a total of 16.86 km of surveyed line. During the 2010 field program, sample sites along the pre-existing soil grid were tightened such that sample spacing over selected intervals of the 2009 soil grid were established at 25m intervals. Intermediate survey lines were also established mid way between the 2009 soil lines resulting in a grid line spacing of 100m within the northern half of the grid. A four wheel drive access road trending 90 degrees to the grid line orientation acted as base line and is the origin or 0+00 coordinate for the survey lines. A total of 402 soil samples were collected during the 2010 soil sampling program.

Soil samples were collected by shovel from the B-Horizon at depths from 10-48 cm, the sampled material was placed in standard kraft paper soil sample bags and submitted to Acme Analytical Laboratories in Vancouver, B.C. for analyses utilizing the Acme 1DX 36 element ICP-MS analytical process. One grab rock sample was taken from a blast pit located on L9W / 2+37mS exposing a mineralized quartz vein shear structure hosting sphalerite and chalcopyrite mineralization over < 1m in width. GPS coordinates and mapped locations were recorded for every soil and rock sample. The rock sample was analyzed by Acme Labs using their 1E 35 element ICP-ES method. Copies of the Acme certificates of analysis for both soil and rock are appended in Section E along with the data sheets setting out the 1DX and 1E methods and specifications. Prospecting and geological mapping was completed over those areas covered by the 2010 soil sampling program locating outcrop areas, historical drill hole sites, trenches, pits, adits and drill road access.

Soil sample results are illustrated in figures GM-10-07 to GM-10-10 which illustrate the combined 2009 and 2010 soil sample results. Statistical analysis of the combined soil geochemical data totaling 758 sample sites was reviewed and determined that anomalous values for copper, silver and molybdenum closely approximates those values equal to or greater than the 95th percentile, anomalous levels for zinc are considered greater than 1500ppm Zn. Interpreted geochemical trends for Cu, Zn, Ag are illustrated in figure GM-10-06.

CONCLUSIONS:

The combined 2009-2010 soil geochemical survey results clearly define several anomalous multi-element soil geochemical trends for copper, zinc and silver which closely approximate the linear orientation of the major mineralized zones identified central to and north of Coppermine Lake.

The linear trends comprise a combination of both single and multi element anomalies interpreted to extend intermittently from 200m up to 1000m in length and are concentrated in the northern half of the geochemical grid, east of the feldspar porphyry intrusive dyke. The interpreted trends typically consist of both single and multiple point anomalies extending from line to line and are best developed within Unit 2 comprising tuffaceous greywacke, sharpstone breccia and sandstone. Central to the geochemical grid is a northwest trending feldspar porphyry dyke. Anomalous Cu-Zn and Ag values are locally noted within the feldspar porphyry dyke which appear related to at least two through going geochemical trends. For the most part, anomalous copper, zinc and silver soil geochemical results are concentrated to the east of the north-south trending Feldspar Porphyry Dyke. Low level and anomalous molybdenum soil results are for the most part concentrated within the feldspar porphyry intrusive.

A major portion of the defined Cu-Zn-Ag geochemical anomalies located in the central portion of the grid suggest possible extensions to zones of defined Cu-Zn-Ag mineralization local to Coppermine Lake. In the north east portion of the soil grid, at least three anomalous Cu-Zn-Ag geochemical trends are noted extending up to 500m in length and are open to extension towards the northeast. The location of these anomalies suggests new zones of potential base and precious metal mineralization.

Copper:

Copper soil results are illustrated in figure GM-10-7. The anomalous threshold value for copper is determined to be >104 ppm Cu. A total of 64 sample sites exceed 104ppm Cu, the highest value of which reports 1,131.4 ppm Cu located on L0W at 2+50S.

Several linear multi line Cu geochemical anomalies extend across the survey area varying from 200m to 1000m in length. Two of the strongest linear anomalies sub parallel one another in the central portions of the gridded area from L0 to L10W. The northern most anomaly follows a steeply incised creek valley down slope to the west; its orientation suggests a westerly extension to the Creek Zone. Immediately to the south is a second linear anomaly which in part follows the main access road at its western extension. This anomaly may reflect an extension to the Copper Crown Zone located to the east of L0. Single point and multi line copper anomalies to the southwest of Coppermine Lake are related to the Ruby Zone. To the north of the main access road from L0 to L5W are a series of east-west trending, single and multi point copper anomalies. The southern most trend straddling the main access road highlights the Rainstorm Zone, the remaining copper anomalies to the north reflect new mineralized trends which terminate along the eastern contact of the feldspar porphyry dyke and are open to extension east of L0.

Zinc:

Zinc soil results are illustrated in figure GM-10-10. The anomalous threshold value for zinc is >1,500 ppm Zn. A total of 50 sample sites exceed 1,500 ppm zinc, the highest zinc value of 8,456 ppm Zn is located on L0W / 0+50S.

In general, anomalous zinc sample sites closely parallel anomalous copper geochemical trends highlighting potential extensions to the west of known zones of copper-zinc mineralization located central to Copper Mine Lake ie the Ruby, Copper Crown, Creek and Rainstorm Zones.

Two linear zinc anomalies occur in the central portions of the gridded area extending intermittently between L0 and L9W. The northern most trend corresponds to a linear copper

anomaly located in a deeply incised creek valley thought to reflect the western extension of the Creek Zone. Immediately to the south is a sub parallel zinc anomaly which in part overlies the main access road at its western extension. This trend parallels the Copper Crown Zone extending intermittently from L0 to L9W. A strongly anomalous Zinc anomaly is located north of the main access road extending from L4W to L0W. This anomalous trend is coincident with anomalous copper soil results which collectively define the trace of the Rainstorm Zone. Several other single and multi-point zinc anomalies located in the northeast portion of the grid are coincident with anomalous copper soil geochemical results and collectively define new zones of copper-zinc mineralization which is open to extension to the east of L0.

Silver:

Silver soil results are illustrated in figure GM-09-9. The anomalous threshold value for silver is >2.3ppm Ag. A total of 39 sample sites exceed 2.3ppm silver, the highest silver value is 33.7ppm located on L1W / 7+50S along the projected trace of the Ruby Zone.

Silver geochemical anomalies are coincident with both copper and zinc geochemical trends. Silver anomalies are best developed to the north of the main access road from L5W to L0 and east of the north-south trending Feldspar Porphyry Dyke. Anomalous silver values follow a deeply incised creek valley from L0 to L3W and sub anomalous silver results to L9W identify the Creek Zone trend. Immediately to the south, intermittent anomalous silver values from L3W to L9W are coincident with anomalous copper-zinc results defining the westerly extension of the Copper Crown Zone. A cluster of anomalous silver results at the south end of L1W and surrounding sub anomalous silver values overly the projected trace of the Ruby Zone.

Molybdenum:

Molybdenum soil geochemical results are illustrated in Figure GM-10-8. Molybdenum soil geochemical values are considered very low level. Based on the combined 2009/2010 soil sample results, the anomalous threshold value for molybdenum is considered >4.2ppm Mo. A total of 30 sites exceed 4.2ppm Mo with the highest value reporting 60.9ppm Mo located on L9W, 0+25N.

Although not considered significant, anomalous and sub anomalous molybdenum soil results are located in the central portion of the grid from L2W to L6W centered on the north-south trending quartz feldspar porphyry dike.

Reconnaissance Mapping Program:

The reconnaissance mapping program expanded on the results obtained from the 2009 field program locating the eastern contact of the central feldspar porphyry dyke and areas of outcrop exposure as well as sites of surface disturbance including historical trench, adit and drill hole sites and access routes. The 2009 geochemical trends which overly or closely parallel the main access route through the property were examined in the field to determine whether possible sites of contamination influenced the anomalous trends. No potential site for contamination along the main access route was located.

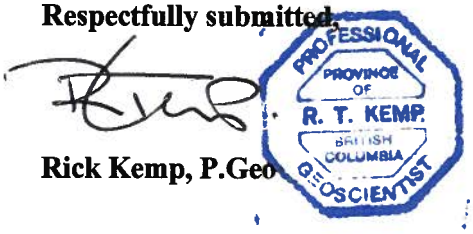
One rock sample was collected during the current program from a blast trench located on L9W, 2+37mS. A shear / fault hosted quartz vein <1m in width and oriented at 203deg dipping -68deg to the south east is exposed hosting coarse sphalerite and chalcopyrite mineralization. Analytical results from a mineralized grab sample returned strongly anomalous values for copper (1.00% Cu), zinc (17.75% Zn) and silver (110.5ppm Ag).

RECOMMENDATIONS:

Additional soil sampling coverage to the east of L0 is warranted to evaluate Cu-Zn-Ag geochemical trends which remain open to extension. Grid line coverage to the east of L0 should be established at 100m intervals with sample sites located at 25m intervals.

A VLF-EM survey is recommended over the northern portion of the 2009/2010 grid targeting those areas exhibiting multi-element soil geochemical trends and there extensions to the east of L0. This survey type has proved successful in the past locating favourable structures which may host Cu-Zn-Ag mineralization. Based on the results of these programs a phase two drilling program is recommended to evaluate the favourable VLF-EM anomalies and coincident Cu-Zn-Ag soil geochemical anomalies.

Respectfully submitted,



Rick Kemp, P.Geo

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STATEMENT OF QUALIFICATIONS:

For: Rick Kemp of 2769 William Ave, North Vancouver, British Columbia.

I graduated from Lakehead University with a Bachelor of Sciences Degree in Geology (1981);

I have been practicing my profession as a geologist in mineral exploration continuously since 1981;

I am a registered member in good standing as a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia;

The observations, conclusions and recommendations contained in this report are based on the author's supervision of the described program and the evaluation of results of the exploration program completed by the operator of the property, Bard Ventures Ltd.

Rick Kemp, P.Geo.

PROFESSIONAL GEOSCIENTIST
PROVINCE OF BRITISH COLUMBIA
R. T. KEMP

SECTION B: PROPERTY

GROUSE MOUNTAIN PROPERTY			*SCHEDULE OF MINERAL CLAIMS*			
PROVINCE: British Columbia			**CLAIMS: 7**	**CELLS: 94**		**AREA: 1763.282 ha**
MINING DIVISION: Omineca			**NTS: 93L/10**		**BCGS: 093L.057**	
LOCATION: on the east side of the Bulkley Valley 19 km NNW of Houston and 38 km SE of Smithers			**LATITUDE: 54º33.6'**		**LONGITUDE: 126º44'**	
			UTM: NAD 83	**ZONE 9**	**6 048 000 N**	**646 500 E**
			PROPERTY INTEREST: **Bard Ventures Ltd. – 0%** **Stephen Bjorn Soby – 100%**			
MAP	**1:250 000**	**93L Smithers**				
	1:50 000	**93l/10 Quick**				
	1:20 000	**93F.057 Grouse Mountain**				

AGREEMENT SUMMARY:

May 4, 2007: Option Agreement with Stephen Bjorn Soby whereby Bard may earn a 100% interest subject to a 2.5% Net Smelter Return Royalty by carrying out aggregate exploration expenditures of $250,000, making a cash payment of $10,000 and issuing an aggregate of 400,000 shares of Bard on or before October 31, 2011.

CLAIM NAME	TENURE NUMBER	CELLS	GROSS AREA (hectares)	RECORD DATE (yyyy-mm-dd)	GOOD TO DATE (yyyy-mm-dd)	ANNUAL WORK $	RECORDED OWNER / REMARKS
St 1	508373	16	300.020	2005-03-07	2014-10-01	2400.16	Stephen Bjorn Soby
St 2	508374	24	450.275	2005-03-07	2014-10-01	3602.20	Stephen Bjorn Soby
St 3	508377	2	37.512	2005-03-07	2014-10-01	300.10	Stephen Bjorn Soby
St 4	508378	4	75.016	2005-03-07	2014-10-01	600.13	Stephen Bjorn Soby
Grouse	542642	25	468.961	2006-10-06	2014-10-01	3751.69	Stephen Bjorn Soby
Grouse 2	542644	18	337.670	2006-10-06	2014-10-01	2701.36	Stephen Bjorn Soby
Grouse Fill	542645	5	93.828	2006-10-06	2014-10-01	750.62	Stephen Bjorn Soby
7		**94**	**1763.282**			**14106.26**	

ASSESSMENT WORK SUMMARY

Date of Filing (yyyy-mm-dd)	Work Filed $	New Work Applied $	PAC Credits Applied	PAC Credits Saved	Total PAC Credits	Date of Approval (yyyy-mm-dd)	Event Number
2007-09-25	60000.00	41735.79	0.00	18264.21	-	2008-03-13	4171350
2009-10-26	41120.67	29365.59	11755.08	0	-		4384629
2011-03-29	36312.43	35246.30	0.00	1066.13	-		4848843

SECTION C: EXPENDITURES (Grouse Mountain 2010 Soil Geochemical Sampling and Mapping Program)

Item	Work Performed	Quantities / Rates	Amount
GEOCHEMICAL SURVEY:			
Personnel:			
Project Manager: Rick Kemp, P.Geo.	Period: Aug 10-29, 2010 Project Supervision	20 days @ $500.00	10,000.00
Field Assistant: Chad London	Period: Aug 16-29,2010 Soil grid survey-sampling	12 days @ $250.00	3,000.00
Field Assistant Eugene Brown	Period: Aug 13-29, 2010 Soil grid survey-sampling	15 days @ $200.00	3,000.00
SUB-TOTAL			**$16,000.00**
Accommodation & Meals:			
Rick Kemp	Period: Aug 10-29, 2010	20 days @ $119.52	$2,390.33
Transportation:	Airfare, Vehicle Charges plus Fuel	20 days @ $146.82	$2,936.46
Field Supply:	Survey supply, sample bags		$558.19
Analytical Services:			
Acme Analytical Laboratories Ltd., Vancouver, BC	Analysis of soil and rock samples: IDX: 36 element (ICP-MS)	402 @ $17.60	7,075.20
	IE: 35 element (ICP-ES)	1 @ $16.85	16.85
	7TD: 4 acid digestion (ICP-ES)	1 @ $13.60	13.60
SUB-TOTAL			**$7,105.65**
Map Preparation:			
Mike Davies	Base map preparation and data	13 hrs @ $70.00	910.00
Moonraker Multimedia	Plotting	11 hrs @ $75.00	825.00
Printing Dominion Blue	Map printing		586.80
SUB-TOTAL			**$2,321.80**
Report Preparation:			
Rick Kemp, P.Geo Project Manager	Data review, interpretation Final Report	10 days $500.00	$5,000.00
TOTAL SURVEY	13 lines / 14,500m (14.5km)		**$36,312.43**
Unit cost per line km	14.5km		**$2,504.31**

SECTION D: 2010 SAMPLE DATA

2010 Soil and Rock Geochem Sampling:

1. Soil Sampling Grid and Station Coordinates and Sample Descriptions

Line	Station	Coordinates		Sample	Sample	Comments / Observations
Number		Easting	Northing	Depth	Description	
L0	0+25 n	646733.6	6048581.32	27 cm	tan/brown	Cut IP Line L109+00E, 104+42N crosses L0 at 0+09N, OC Unit 2
L0	0+75 n	646715.94	6048626.33	32 cm	black/ dark brown	
L0	1+25 n	646701.26	6048670.7	28 cm	tan	OC Unit 2
L0	1+75 n	646684.62	6048715.02	28 cm	lt brown	
L0	2+25 n	646666.27	6048763.34	26 cm	brown	
L0	2+75 n	646647.95	6048816.02	28 cm	grey	
L0	3+25 n	646632	6048863	37 cm	tan	2009 soil sample at 3+50N located beside trench
L0	3+75 n	646611	6048918	35 cm	dark brown	
L0	4+25 n	646594.98	6048960.8	32 cm	orange/brown	
L0	4+75 n	646580	6049011	33 cm	grey/lt brown	OC Unit 2
L0	0+25 s	646752.57	6048530.98	28 cm	black	West of trench area near access road
L0	0+75 s	646769.53	6048486.64	28 cm	brown	
L0	1+25 s	646787.6	6048441	27 cm	tan/brown	OC Unit 2
L0	1+75 s	646805.25	6048399.62	23 cm	lt brown	Cut IP Line L102N, 108+75E crosses L0 at 2+00s, OC Unit 2
L0	2+25 s	646822.27	6048350.61	29 cm	lt brown	
L0	2+75 s	646841.59	6048304.04	28 cm	lt brown	
L0	3+25 s	646857.61	6048258.3	32 cm	grey/lt brown	Cut IP Line L101N, 108+35E crosses L0 at 3+42S
L0	3+75 s	646879.27	6048208.36	22 cm	grey/brown	At 3+86s is old drill rod, clearing, oil can etc. At 4+00s, old road+clearing=disturbed area. OC Unit 2
L0	4+25 s	646899.25	6048159.68	25 cm	tan/brown	4+25s is old road, open area and disturbed
L0	4+75 s	646918.25	6048117	21 cm	grey/brown	Edge of disturbed area and old road. At 4=50s is OC area, old Rd and trench (Cpy,Py)
L0	5+25 s	646935.92	6048069.73	26 cm	lt brown	Side of bog and Cut IP Line L99N 107+70E. At 4+87s is good Rd along edge of Bog
L0	5+75 s	646952.27	6048020.35	24 cm	lt brown	At 6+00s line crosses Cut IP Line at L98N, 107+37E, OC Unit 2
L0	6+25 s	646969.29	6047975.66	24 cm	lt brown/tan	Edge of open grassy area from 6+22s to 6+56s
L0	6+75 s	646989.3	6047928.67	32 cm	lt brown	OC Unit 2
L0	7+25 s	647009.01	6047880.95	29 cm	brown	OC Unit 2
L0	7+75 s	647027	6047840	23 cm	lt brown	At 7+50s is top of hill and OC unit 2
L0	8+25 s	647042.62	6047790.48	35 cm	lt brown	OC Unit 2
L1W	0+00	646637.28	6048539.65	21 cm	lt brown	Main Access Road
L1W	0+25 n	646628.52	6048559.41	35 cm	dark brown	
L1W	0+50 n	646619.18	6048578.58	25 cm	lt brown	West edge of open clearing ie Rd, drill site
L1W	0+75 n	646610	6048602	26 cm	brown	
L1W	1+00 n	646603.1	6048623.18	18 cm	tan	
L1W	1+25 n	646592.46	6048648.64	17 cm	orange/tan	
L1W	1+50 n	646582.96	6048670.09	20 cm	orange/brown	
L1W	1+75 n	646572	6048695	18 cm	brown	
L1W	2+00 n	646565	6048716	16 cm	lt brown	
L1W	2+25 n	646555.2	6048738.36	22 cm	brown	
L1W	2+50 n	646546.02	6048763	17 cm	lt brown	
L1W	2+75 n	646536	6048788	24 cm	lt brown	
L1W	3+00 n	646524	6048811	35 cm	black	At 3+13N is old Rd, trench and cross lines.
L1W	3+25 n	646517	6048836	21 cm	lt brown	
L1W	3+50 n	646504	6048856	19 cm	brown	
L1W	3+75 n	646495	6048879	16 cm	lt brown	
L1W	4+00 n	646486	6048902	20 cm	lt brown	
L1W	4+25 n	646476.82	6048924.97	18 cm	brown	
L1W	0+25 s					Trenches, disturbed area and cut line. **NO SAMPLE**
L1W	0+50 s	646657	6048496	25 cm	lt brown	
L1W	0+75 s	646663	6048475	22 cm	brown	

Line	Station	Coordinates		Sample	Sample	Comments / Observations
Number		Easting	Northing	Depth	Description	
L1W	1+00s					Sample taken at 2009 site.
L1W	1+25 s	646680	6048430	19 cm	lt brown	
L1W	1+50 s	646689.22	6048409.05	18 cm	lt brown	
L1W	1+75 s	646697	6048388	18 cm	tan	OC Unit 2
L1W	2+00 s	646706	6048365	16 cm	lt brown	
L1W	2+25 s	646713	6048344	17 cm	brown	Small creek draw at 2+43s. Talus of Unit 2
L1W	2+50 s	646722.72	6048321.45	21 cm	brown	OC Unit 2
L1W	2+75 s	646733	6048299	18 cm	tan	
L1W	3+00 s	646740	6048272	21 cm	orange/lt brown	
L1W	3+25 s	646746.76	6048249.76	17 cm	lt brown	OC Unit 2
L1W	3+50 s	646755	6048226	22cm	lt brown	OC Unit 2
L1W	3+75 s	646765	6048201	18 cm	lt brown	OC Area, Unit 2. Trench at 3+87s with Py, Cpy, Veining and gossan
L1W	4+00 s	646776	6048178	22 cm	brown	Cut IP Line 101N, 107+25E crosses L1W at 4+00s. OC Unit 2.
L1W	4+25 s	646783.4	6048153.56	23 cm	brown	
L1W	4+50 s	646793	6048135	17 cm	orange/tan	
L1W	4+75 s	646798.37	6048112.7	18 cm	brown	Cut IP Line L100N, 107+00E crosses line at 4+80s (646804E, 6048104N)
L1W	5+00 s	646807.83	6048090.13	26 cm	brown	OC Unit 2
L1W	5+25 s	646815.54	6048068.07	22 cm	brown	5+46s is good road, OC Unit 2
L1W	5+50 s	646824.2	6048042.79	21 cm	lt brown	5+50s is good road
L1W	5+75 s	646833	6048020	15 cm	orange/brown	
L1W	6+00 s	646841	6048001	26 cm	brown	Cut IP line L99N, 106+50E. Trench parrallel to Line
L1W	6+25 s	646849	6047976	22 cm	orange/brown	
L1W	6+50 s	646858	6047952	18 cm	orange	
L1W	6+75 s	646864	6047930	19 cm	orange	At 6+80s cross cut IP Line L98N, 106+15E (646862E, 6047920N). OC Unit 2
L1W	7+00 s	646873.77	6047906.68	22 cm	brown	
L1W	7+25 s	646883	6047884	26 cm	brown	Trench with weak malachite hosted by Unit 1, Maroon Lap Tuff, no vning
L1W	7+50 s	646891.73	6047859.69	25 cm	brown	Trench running parralel to line
L1W	7+75 s	646899	6047836	23 cm	grey/brown	
L1W	8+00 s	646910	6047813	29 cm	dark brown	
L1W	8+25 s	646915	6047792	29 cm	brown	OC area Unit 2
L1W	8+50 s	646924.78	6047766.77	27 cm	brown	OC area Unit 2
L2W	0+25 n	646550.55	6048534.84	41 cm	black/grey	0+00 at junction of 2 roads, road at 0+50n
L2W	0+75 n	646534.09	6048581.74	42 cm	black/tan clay	
L2W	1+25 n	646514.17	6048627.27	34 cm	black	OC Unit 2
L2W	1+75 n	646498.28	6048676.92	22 cm	tan	OC Unit 2
L2W	2+25 n	646477.83	6048726.18	26 cm	tan	
L2W	2+75 n	646460.11	6048777.63	38 cm	dark brown/grey clay	
L2W	3+25 n	646441.13	6048825.72	25 cm	lt brown	
L2W	0+25 s	646568.63	6048491.28	25 cm	brown	Trench and muck pile located 15m east of line
L2W	0+75 s	646587	6048447	27 cm	lt brown	Cut IP Line L104N, 107+50E crosses at 0+80s
L2W	1+25 s	646606	6048403	33 cm	dark brown	
L2W	1+75 s	646624	6048350	27 cm	lt brown	At 2+08s cross cut IP Line L103N, 107+00E
L2W	2+25 s	646640.46	6048303.57	36 cm	brown	OC Unit 2
L2W	2+75 s	646653	6048260	34 cm	brown	Bottom of gulley and creek draw. OC Unit 2
L2W	3+25 s	646670.84	6048219.1	24 cm	tan/lt brown	
L2W	3+75 s	646689.19	6048173.09	27 cm	tan	**Adit** and muck pile with good rd access
L2W	4+25 s	646704	6048125	30 cm	lt brown	IP cut line L101N, 106+35E crosses line at 4+15s, OC Unit 2
L2W	4+75 s	646723.3	6048084.83	23 cm	tan	OC Unit 2, top of ridge

Line	Station	Coordinates		Sample	Sample	Comments / Observations
Number		Easting	Northing	Depth	Description	
L2W	5+25 s	646741.82	6048037.19	28 cm	lt brown	OC Unit 2
L2W	5+75 s	646761.82	6047992.29	31 cm	brown	OC Unit 2, good road at 5+50s
L2W	6+25 s	646783	6047946	26 cm	lt brown	OC Unit 2, Cross IP cut line L99N, 105+75E at 6+30s, L2W.
L2W	6+75 s	646798	6047900	25 cm	brown	Skidder trail and trench west of line in Ovb, no OC. Cut IP Line L98N, 105+35E crosses at 7+12s.
L2W	7+25 s	646816	6047853	29 cm	lt brown	OC Unit 5
L2W	7+75 s	646837.81	6047806.46	25 cm	lt brown	OC Unit 5
L2W	8+25 s	646858	6047764	30 cm	tan	OC Unit 5
L2W	8+75 s	646878.46	6047716.58	31 cm	lt brown	OC Unit 5
L3W	0+00	646518	6048341	18 cm	lt brown	Main Access Road
L3W	0+25 n	646537	6048300	18 cm	lt brown	Cut IP Line L104N, 106+37E crosses line at 0+35N
L3W	0+50 n	646543	6048278	45 cm	dark/greenish grey	V Large Feldspar Porphyry boulder float
L3W	0+75 n	646552.93	6048252.52	28 cm	brown	
L3W	1+00 n	646562.36	6048225.04	23 cm	lt brown	
L3W	1+25 n	646572.18	6048203.9	17 cm	lt brown	
L3W	1+50 n	646472	6048460	18 cm	brown	
L3W	1+75 n	646465	6048485	21 cm	orange/brown	
L3W	2+00 n	646457	6048505	21 cm	brown	
L3W	2+25 n	646449	6048526	32 cm	lt brown	Edge of skidder trail with pad?
L3W	2+50 n	646440	6048551	24 cm	orange/ grey brown	
L3W	2+75 n	646430.49	6048573.38	25 cm	dark brown/yellow clay	Wet and boggy
L3W	3+00 n	646424	6048597	20 cm	lt brown	
L3W	3+25 n	646414	6048623	16 cm	brown	
L3W	3+50 n	646405	6048645	18 cm	orange	
L3W	3+75 n	646397	6048670	18 cm	lt brown	
L3W	4+00 n	646389	6048692	43 cm	dark brown/grey clay	
L3W	4+25 n	646382.45	6048713.41	22c cm	orange/tan	
L3W	4+50 n	646374.41	6048737	35 cm	lt brown	
L3W	4+75 n	646367	6048759	28 cm	brown	OC Unit 2
L3W	5+00 n	646360	6048782	22 cm	brown	OC Unit 2
L3W	0+25 s	646508.9	6048366.93	23 cm	tan	
L3W	0+50 s	646500	6048390	21 cm	lt brown	
L3W	0+75 s	646489	6048412	22 cm	tan	Old rd and Cut IP Line L103N, 105+75E crosses line at 0+75s
L3W	1+00 s	646480.41	6048437	24 cm	brown	Just west of clearing with old building, wet, boggy
L3W	1+25 s	646567	6048207		**road and swamp no sample**	Just west of clearing with old building, wet, boggy
L3W	1+50 s	646579.84	6048183.17	31 cm	black/grey clay	Edge of clearing with 3 old buildings and good road at 1+37s
L3W	1+75 s	646590	6048159	29 cm	orange/tan	
L3W	2+00 s	646604	6048141		**No Sample**	Edge of good road and old cabin
L3W	2+25 s	646602.52	6048130.67	25 cm	orange/grey	
L3W	2+50 s	646611	6048103	22 cm	lt brown	
L3W	2+75 s	646619.92	6048079.86	26 cm	brown	Cut IP Line L101n, 105+35E crosses line at 2+83s. OC Unit 2.
L3W	3+00 s	646627	6048057	17 cm	orange/tan	Old road 3+06s, OC Unit 2
L3W	3+25 s	646636.41	6048033	27 cm	brown/5 feet from creek	Wide wash out area along creek
L3W	3+50 s	646648	6048009	17 cm	lt brown	
L3W	3+75 s	646654.48	6047988.11	26 cm	brown	Road and edge of large muck pile
L3W	4+00 s	646663.41	6047965.39	26 cm	grey/lt brown	Road, muck pile and **Adit.** Adit and Rd at 646676E, 6047957N. End of muck pile at 646663E, 6047992N
L3W	4+25 s	646670.67	6047942.99	22 cm	lt brown	edge of Unit 5, feldspar Porphyry OC area
L3W	4+50 s	646679.31	6047919.41	24 cm	lt brown	Unit 5, Feldspar Porphyry (FP)
L3W	4+75 s	646686.35	6047898.07	24 cm	lt brown	FP

Line	Station	Coordinates		Sample	Sample	Comments / Observations
Number		Easting	Northing	Depth	Description	
L3W	5+00 s	646693	6047874	26 cm	lt brown	FP Unit 5. IP Cut Line L99N, 104+50E crosses line at 5+12s
L3W	5+25 s	646703	6047852	21 cm	tan	FP, Unit 5
L3W	5+50 s	646708.86	6047828.92	19 cm	lt brown	
L3W	5+75 s	646717	6047807	22 cm	brown	
L3W	6+00 s	646724.69	6047781.07	24 cm	lt brown	Unit 5 OC FP, IP Cut Line L98N, 104+20E crosses line at 6+00s
L3W	6+25 s	646734	6047761	21 cm	grey/lt brown	
L3W	6+50 s	646739.38	6047739.54	18 cm	lt brown	
L3W	6+75 s	646746.5	6047716.75	17 cm	lt brown	
L3W	7+00 s	646753.51	6047691.7	18 cm	lt brown	
L3W	7+25s				**No Sample**	
L3W	7+50s				**No Sample**	OC area Unit 2
L3W	7+75s				**No Sample**	OC area Unit 2
L4W	0+00				**No Sample**	located at junction of 2 good roads, one uphill, one leads to old cabins, buildings
L4W	0+25 n	646465.98	6048213	21 cm	brown	
L4W	0+75 n	646448.97	6048258.93	21 cm	lt brown	At 0+50n, edge of main rd and creek
L4W	1+25 n	646432.47	6048301.95	25 cm	lt brown	V. Large boulders of Feldspar porphyry Unit 5.
L4W	1+75 n	646416.83	6048344.41	23 cm	brown	Base of hill, open area, cleared, disturbed. Drill site?
L4W	2+25 n	646397.93	6048390.48	21 cm	tan	2+00n, steep slope, open grassy area, OC Unit 5. 2+25n OC area Unit 5, top of hill
L4W	2+75 n	646381.47	6048436.48	24 cm	grey/lt brown	2+50n top of hill, OC area unit 5
L4W	3+25 n	646364.14	6048477.49	31 cm	lt brown	
L4W	3+75 n	646346.96	6048523.01	26cm	grey/tan	
L4W	4+25 n	646330.49	6048573.01	22cm	lt brown	OC Unit 2
L4W	4+75 n	646310.98	6048618.51	23 cm	lt brown	dry seasonal creek bed
L4W	5+25 n	646291.49	6048664.98	22 cm	tan	
L4W	5+75 n	646270.78	6048718.32	39 cm	dark brown	OC Unit 2
L4W	0+25 s	646487.48	6048157.97	21 cm	brown	
L4W	0+75 s	646507.47	6048106.99	23 cm	lt brown	IP Cut line L102n, 104+50e crosses L4W at 0+90s
L4W	1+25 s	646525.48	6048058.52	21 cm	brown	
L4W	1+75 s	646543.97	6048009.52	18 cm	lt brown	OC Unit 5
L4W	2+25 s	646565.49	6047961.54	22 cm	lt brown	Cut IP L101N, 104+37E crosses line L4W at 1+85s.
L4W	2+75 s	646581.81	6047910.58	23 cm	brown	Cut IP l100N, 103+95e crosses line L4W at 3+00s.
L4W	3+25 s	646599.98	6047867.03	25 cm	lt brown	Old drill site and skidder trail at 3+50s.
L4W	3+75 s	646615.98	6047823.04	23cm	lt brown	Cut IP L99N, 103+55E crosses L4W at 4+12s
L4W	4+25 s	646630.48	6047781.01	22 cm	lt brown	OC area Unit 5
L4W	4+75 s	646646.49	6047738.06	23 cm	lt brown	OC area Unit 5
L4W	5+25 s	646662.99	6047690.01	22 cm	brown	Cut IP Line L98N, 103+20E crosses L4W at 5+00s. OC area Unit 5
L4W	5+75 s	646680.01	6047646.51	18 cm	lt brown	At 5+50s OC Unit 2
L4W	6+25 s	646697.02	6047601.03	21 cm	brown	At 6+50s OC Unit 2
L4W	6+75 s	646713.52	6047555.5	23 cm	lt brown	At 7+00s OC Unit 2
L4W	7+25 s	646730.98	6047507.04	21 cm	brown	
L5W	0+00				**No Sample**	Main Access Road
L5W	0+25n				**No Sample**	
L5W	0+50 n	646376.26	6048193.12	26 cm	dark brown/grey	Bottom of creek gulley
L5W	0+75 n	646363.71	6048226.77	28 cm	brown	
L5W	1+00 n	646352	6048255	24 cm	orange/tan	
L5W	1+25 n	646340.38	6048281.81	26 cm	orange/lt brown	
L5W	1+50 n	646329.18	6048307.41	21 cm	lt brown	
L5W	1+75 n	646317	6048329	23 cm	lt brown	OC area, Unit 5, Feldspar Porphyry (FP)

Line	Station	Coordinates		Sample	Sample	Comments / Observations
Number		Easting	Northing	Depth	Description	
L5W	2+00 n	646308.6	6048350	18 cm	lt brown	
L5W	2+25 n	646299.16	6048373.81	14 cm	lt brown	Unit 5 OC, FP
L5W	2+50 n	646286	6048395	28 cm	lt brown	Unit 5 OC, FP
L5W	2+75 n	646277	6048417	24 cm	lt brown	
L5W	3+00 n	646268.38	6048439.59	34 cm	lt brown	
L5W	3+25 n	646255.79	6048465.99	22 cm	orange/brown	
L5W	3+50 n	646244.39	6048493.36	21 cm	lt brown	
L5W	3+75 n	646235.54	6048516.48	24 cm	lt brown	
L5W	4+00 n	646225	6048540	27 cm	lt brown	Creek Gulley, Unit 2 OC
L5W	4+25 n	646213	6048567	21 cm	lt brown	Unit 2, OC
L5W	4+50 n	646204	6048589.24	18 cm	lt brown	Unit 2, OC
L5W	4+75 n	646196	6048612	23 cm	lt brown	
L5W	5+00 n	646184	6048631	23 cm	lt brown	
L5W	5+25 n	646172.1	6048656.7	55 cm	brown	Open Grassy area
L5W	5+50 n	646161.18	6048682.38	24 cm	lt brown	Unit 1, OC
L5W	5+75 n	646150.19	6048706.59	23 cm	tan/lt brown	Unit 1, OC
L5W	6+00n	646139	6048731			
L5W	6+25n	646127.66	6048756.63			Unit 1, OC
L5W	6+50n	646120	6048781			
L5W	0+25s				**No Sample**	South edge of good road
L5W	0+50s	646407	6048125	22 cm	lt brown	
L5W	0+75s				**No Sample**	
L5W	1+00 s	646415.87	6048092.79	21 cm	lt brown	
L5W	1+25 s	646429.02	6048067	23 cm	lt brown	Short **Adit** ~20ft with muck pile and veining at contact between Unit 5 and Unit 2
L5W	1+50 s	646438.83	6048042.71	18 cm	lt brown	IP Cut Line L102N, 103+65E crosses line at 1+60s.
L5W	1+75 s	646447.98	6048018.43	22 cm	lt brown/tan	OC Unit 5
L5W	2+00 s	646458.61	6047993.6	26 cm	ltbrown	
L5W	2+25 s	646467	6047970	21 cm	brown	
L5W	2+50 s	646477	6047949	20 cm	lt brown	OC unit 5. IP Cut Line L101N, 103+30E crosses line at 2+55s
L5W	2+75 s	646485.38	6047927.43	19 cm	lt brown	
L5W	3+00 s	646493.19	6047905.95	24 cm	brown	
L5W	3+25 s	646503.64	6047883.46	21 cm	brown	
L5W	3+50 s	646512.81	6047860.47	24 cm	brown	IP Cut Line L100N, 103+08E crosses line at 3+69s, L5W.
L5W	3+75 s	646521	6047838	28 cm	brown	
L5W	4+00 s	646531	6047816	25 cm	brown	
L5W	4+25s				**No Sample**	OC Unit 5
L5W	4+50s				**No Sample**	
L5W	4+75s				**No Sample**	OC Unit 5, IP Cut Line L99N, 102+57E crosses at 4+83s, L5W
L5W	5+00s				**No Sample**	OC Unit 5
L5W	5+25s				**No Sample**	
L5W	5+50s				**No Sample**	
L5W	5+75				**No Sample**	IP Cut Line L98N, 102+18E crosses at 5+75s
L5W	6+00s				**No Sample**	
L5W	6+25s				**No Sample**	
L5W	6+50s				**No Sample**	
L6W	0+00				**No Sample**	Sample on down slope side of Rd, possible contamination. At 0+16n steep sided creek drainage.
L6W	0+25 n	646265.57	6048175.54	24 cm	brown	

Line	Station	Coordinates		Sample	Sample	Comments / Observations
Number		Easting	Northing	Depth	Description	
L6W	0+75 n	646246.42	6048224.59	26 cm	lt brown/tan	At 1+00n OC unit 5
L6W	1+25 n	646227.97	6048274.11	17 cm	lt brown	1+50n, OC Unit 5
L6W	1+75 n	646211	6048319	18 cm	brown/lt brown	2+00n, OC Unit 5
L6W	2+25 n	646193.01	6048362.59	24 cm	lt brown	OC Unit 5
L6W	2+75 n	646175	6048409	28 cm	brown	
L6W	3+25 n	646158	6048455	33 cm	brown	
L6W	3+75 n	646139.99	6048498.02	27 cm	lt brown	Bottom of creek gulley, OC Unit 5
L6W	4+25 n	646121.55	6048544.45	21 cm	tan/lt brown	
L6W	4+75 n	646103.5	6048592.85	24 cm	lt brown	
L6W	5+25 n	646084.24	6048641.32	25 cm	lt brown	
L6W	5+75 n	646064.47	6048690.52	28 cm	lt brown	
L6W	0+25 s	646282.53	6048130.07	18 cm	brown	
L6W	0+75 s	646300.03	6048086.07	15 cm	brown	OC Unit 5
L6W	1+25 s	646317.52	6048038.52	17 cm	brown	OC Unit 5
L6W	1+75 s	646336.08	6047992.57	25 cm	tan/orange	OC Unit 5
L6W	2+25 s	646351	6047948	21 cm	tan	OC Unit 5 at 2+00s
L6W	2+75 s	646371	6047898	24 cm	lt brown	OC Unit 5
L6W	3+25 s	646392.56	6047849.04	28 cm	lt brown	
L6W	3+75 s	646410.03	6047801.49	27 cm	lt brown	OC Unit 5
L6W	4+25 s	646430.53	6047751.88	25 cm	lt brown	Cut IP L100N, 101+75E crosses L6W at 4+25s
L6W	4+75 s	646448.03	6047708.49	25 cm	lt brown	OC Unit 5
L6W	5+25s				**No Sample**	OC Unit 5, IP cut L99N, 101+25E crosses L6W at 5+25s
L6W	5+75s				**No Sample**	
L6W	6+25s				**No Sample**	
L6W	6+75s				**No Sample**	
L6W	7+25s				**No Sample**	
L7W	0+00	646208.9	6048047.44	19 cm	brown	Main Access Road
L7W	0+25 n	646199	6048070	21 cm	lt brown	Cut IP Line L104N, 102+00E crosses L7W at 0+12N
L7W	0+50 n	646188.87	6048092.28	18 cm	lt brown	
L7W	0+75 n	646176	6048120	17 cm	lt brown	
L7W	1+00 n	646167.16	6048141	26 cm	brown	
L7W	1+25 n	646157.87	6048163	24 cm	lt brown	bottom of gulley and creek draw
L7W	1+50 n	646149	6048185	31 cm	brown	
L7W	1+75 n	646139.43	6048211.26	17 cm	brown	
L7W	2+00 n			out crop	**No Sample**	Edge of open grassy meadow
L7W	2+25 n	646118.46	6048263.28	21 cm	brown	grassy meadow
L7W	2+50 n	646110.41	6048287.97	28 cm	brown	Edge of grassy meadow. OC Unit5
L7W	2+75 n	646100	6048313	22 cm	brown	OC Unit 5
L7W	3+00 n	646091.15	6048335	24 cm	lt brown	OC Unit 5
L7W	3+25 n	646083.03	6048358	29 cm	lt brown	OC Unit 5
L7W	3+50 n	646073	6048380	28 cm	lt brown	OC Unit 5
L7W	3+75 n	646063.69	6048409.43	26 cm	lt brown	OC Unit 5
L7W	4+00 n	646054	6048433	18 cm	tan	
L7W	4+25 n	646043.81	6048457.09	24 cm	brown	
L7W	4+50 n	646037.96	6048478.53	27 cm	brown	Bottom of creek gulley
L7W	4+75 n	646027.72	6048498.31	33 cm	orange/brown	
L7W	5+00 n	646020	6048522	29 cm	brown	
L7W	5+25 n	646009	6048547	26 cm	lt brown	

Line	Station	Coordinates		Sample	Sample	Comments / Observations
Number		Easting	Northing	Depth	Description	
L7W	5+50 n	646001	6048572	24 cm	brown	Old Trappers Camp
L7W	5+75 n	645991	6048590	23 cm	brown	
L7W	6+00 n	645982.5	6048611.38	25 cm	brown	
L7W	6+25 n	645972.22	6048633.59	23 cm	brown	
L7W	6+50 n	645963.77	6048654.67	21 cm	lt brown	
L7W	0+25 s	646217	6048025	18 cm	lt brown	
L7W	0+50 s	646228	6048003	21 cm	tan	
L7W	0+75 s	646238	6047980	27 cm	lt brown	
L7W	1+00 s	646243	6047956	24 cm	brown	
L7W	1+25 s	646254.31	6047931.84	31 cm	lt brown/tan	OC Unit 2
L7W	1+50 s	646264	6047909	28 cm	lt brown	OC Unit 2
L7W	1+75 s	646271.84	6047884.09	21 cm	lt brown	OC Unit 2
L7W	2+00 s	646282	6047863	22 cm	lt brown	Cut IP Line L102N, 101+25E crosses L7W at 1+90s.
L7W	2+25 s	646289	6047838	17 cm	lt brown	
L7W	2+50 s	646301	6047817.84	24 cm	lt brown	OC Unit 2
L7W	2+75s	646308	6047796	18cm	brown	
L7W	3+00s	646321	6047772	21cm	lt Brown	
L7W	3+25s	646332.06	6047749.29	23cm	brown	
L7W	3+50s	646342	6047728	17cm	lt brown	Cut IP Line L100N, 100+75E crosses line at 3+95s, L7W (646340E, 6047690N)
L8W	0+00	646126.59	6047959.06			South side of road
L8W	0+25s	646137.96	6047934.08	25cm	lt brown	
L8W	0+75s	646157.19	6047885.65	31cm	brown	
L8W	1+25s	646175	6047836	33cm	orange/tan	
L8W	1+75s	646194.09	6047789.89	27cm	brown	Cut IP L102N, 100+15E crosses at 1+75s, L8W.
L8W	2+25s	646212.18	6047744.73	28cm	lt brown	
L8W	2+75s	646230.4	6047697	27cm	dark clay	
L8W	0+25n	646119.21	6047983.18	31cm	lt tan	North side of road
L8W	0+75n	646103.21	6048032.96	25cm	lt brown	
L8W	1+25n	646087.12	6048081.62	29cm	brown	
L8W	1+75n	646069.61	6048130.75	26cm	lt brown	
L8W	2+25n	646052.83	6048182.15	21cm	lt brown	At 2+50s is creek
L8W	2+75n	646038.21	6048227.88	25cm	brown	South edge of large open grassy meadow
L8W	3+25n	646021	6048275.67	28cm	brown	Meadow
L8W	3+75n				**No Sample**	Meadow
L8W	4+25n	646005.23	6048321.27	28cm	brown	North edge of Large grassy meadow
L8W	4+75n	645987.48	6048372.98	27cm	lt brown	At 5+00n top of gulley, OC Unit 5
L8W	5+25n	645969	6048427	25cm	brown	Gulley with creek
L9W	0+00	645955	6048472.46	28cm	lt brown	Edge of main access road
L9W	0+25s	646004.28	6048035	32cm	brown	
L9W	0+50s	646015	6048010	28cm	brown	
L9W	0+75s	646027	6047985	29cm	brown	
L9W	1+00s	646037.69	6047959.73	28cm	brown	
L9W	1+25s	646046	6047937	31cm	lt brown	IP Cut L104N, 100+00E crosses at 1+25s.
L9W	1+50s	646057.69	6047914.04	18cm	lt brown	
L9W	1+75s	646067	6047892	26cm	lt brown	
L9W	2+00s	646077	6047869	24cm	lt brown	
L9W	2+25s	646087	6047846	18cm	lt brown / rocky	At 2+29s Pit ~3-4m deep, <1m Cu-Zn shear @ 203deg, -68deg W. Sample **#18651.** (646093E, 6047839N)
L9W	2+50s	646093.09	6047819.34	30cm	lt brown	

Line	Station	Coordinates		Sample	Sample	Comments / Observations
Number		Easting	Northing	Depth	Description	
L9W	2+75s	646101.95	6047795.34	31cm	orange	
L9W	3+00s	646110.35	6047772.08	28cm	lt brown	
L9W	3+25s	646116	6047753	31cm	lt brown	
L9W	3+50s	646124.69	6047728.05	33cm	brown/clay	
L9W	3+75s	646131	6047706	24cm	lt brown	
L9W	4+00s	646143.04	6047679.37	24cm	brown	
L9W	4+25s	646151.42	6047654.96	25cm	lt brown	Grey fine to med grained equigranular magnetic unit ie dioritic intrusive Unit 4.
L9W	4+50s	646161.69	6047633	21cm	lt brown	
L9W	4+75s	646171.02	6047609.51	28cm	brown	OC Unit 2
L9W	5+00s	646179.86	6047585.08	18cm	lt brown	OC Unit 2
L9W	5+25s	646190	6047560	34cm	lt brown	
L9W	5+50s	646200.43	6047539.77	24cm	lt brown	
L9W	5+75s	646211.34	6047519.86	27cm	brown	
L9W	6+00s	646224	6047498	31cm	lt brown	
L9W	6+25s	646234.33	6047473.62	33cm	lt brown/tan	OC Unit 2
L9W	6+50s	646248.04	6047448.42	26cm	brown	
L9W	6+75s	646259.43	6047426.08	24cm	brown	OC Unit 2
L9W	7+00s	646269	6047407	27cm	lt brown	
L9W	7+25s	646280.26	6047385.44	28cm	tan	
L9W	7+50s	646291.63	6047360.68	21cm	brown	OC Unit 2
L9W	7+75s	646303.98	6047339.81	18cm	lt brown/grey	
L9W	8+00s	646313	6047321	18cm	lt brown	
L9W	0+25n	645986.09	6048084.71	22cm	brown	
L9W	0+50n	645976.34	6048108.83	27cm	lt brown	
L9W	0+75n	645967.05	6048131.09	21cm	lt brown	
L9W	1+00n	645959.04	6048151.98	26cm	lt brown	
L9W	1+25n	645948.51	6048177.87	30cm	brown	
L9W	1+50n	645938.9	6048204.66	28cm	brown	Creek at 1+40n
L9W	1+75n	645930.29	6048227.26	33cm	brown	1+87n Edge of open grassy meadow
L9W	2+00n	645903.25	6048291.68	34cm	brown	Grassy meadow
L9W	2+25n	645913	6048269	36cm	brown	Grassy meadow
L9W	2+50n	645903.25	6048291.68	70cm	brown	Grassy meadow
L9W	2+75n	645894.31	6048313.28	26cm	brown	Grassy meadow
L9W	3+00n	645885	6048339	27cm	brown	Grassy meadow
L9W	3+25n	645875	6048359	30cm	brown	Edge of open grassy meadow
L9W	3+50n	645867.5	6048380.86	26cm	brown	
L9W	3+75n	645857.33	6048407.09	24cm	lt brown	Claim Post 2N,5W. S.Soby, Oct 2, 2004 (654867E, 6048402N)
L9W	4+00n	645845	6048436	24cm	lt brown	South Edge of creek draw.
L10W	0+00				**No Sample**	2009 Sample taken close to road from road fill. Suspected contamination
L10W	0+25s	645945.64	6047881.29	28cm	brown/tan/clay	At 0+50S grey fine to med grained equigranular magnetic unit ie dioritic intrusive Unit 4.
L10W	0+75s	645962.88	6047832.9	23cm	brown	Grey fine to med grained equigranular magnetic unit ie dioritic intrusive Unit 4.
L10W	1+25s	645979.15	6047787.54	17cm	lt brown/tan	
L10W	1+75s	645996.16	6047736.91	21cm	lt brown	
L10W	2+25s	646015.65	6047687.51	22cm	brown/lt brown	
L10W	2+75s	646033.28	6047635.86	30cm	brown	
L10W	3+25s	646050.03	6047589.99	31cm	brown	
L10W	3+75s	646066.89	6047542.99	27cm	lt brown	
L10W	4+25s	646083.63	6047497.9	22cm	lt brown	

Line	Station	Coordinates		Sample	Sample	Comments / Observations
Number		Easting	Northing	Depth	Description	
L10W	4+75s	646100.63	6047449.5	25cm	brown	
L10W	5+25s	646117.14	6047406.24	28cm	lt brown	
L10W	5+75s	646137	6047358	34cm	brown	
L10W	6+25s	646156.86	6047312.02	24cm	lt brown	
L10W	6+75s	646175.36	6047263.03	34cm	brown	Small seasonal drainage
L10W	0+25n	645928.24	6047928.42	23cm	brown	
L10W	0+75n	645912.14	6047975.86	29cm	lt brown	
L10W	1+25n	645896.26	6048021.63	24cm	brown	Old trench at 1+40n oriented 060deg (645894E, 6048026N).
L10W	1+75n	645880.23	6048066.59	27cm	tan/lt brown/orange	Grey fine to med grained equigranular magnetic unit ie dioritic intrusive Unit 4.
L10W	2+25n	645865.62	6048110.18	32cm	lt brown	
L10W	2+50n	645856.14	6048131.87	24cm	lt brown	
L10W	2+75n	645848.54	6048155.21	21cm	brown	3+00n top of steep sided gulley
L10W	3+25n	645832.37	6048202.49	24cm	lt brown	
L10W	3+75n	645814.78	6048249.52	18cm	lt brown	North edge of open grassy meadow
L10W	4+25n	645798.15	6048299.38	21cm	brown	At 4+00n is Unit 4, Edge of open grassy meadow
L10W	4+75n	645781.76	6048344.81	23cm	brown	Grassy meadow
L10W	5+25n	645765.04	6048393.25	17cm	brown	At 5+00n edge of grassy meadow.
L10W	5+50n				**No Sample**	Top edge of steep gulley
L12W	0+25n	645717.61	6047874.64	22cm	lt brown/tan	
L12W	0+75n	645699.29	6047922.26	30cm	lt brown/shale rock	
L12W	1+25n	645683	6047967.28	27cm	brown	
L12W	1+75n	645663.39	6048014.7	23cm	brown	
L12W	2+25n	645646.72	6048062.29	26cm	lt brown/tan	
L12W	2+75n	645630	6048106	24cm	lt brown	
L12W	3+25n	645612.3	6048151.02	28cm	brown/grey	Steep side slope
L12W	0+25s	645736.24	6047825	17cm	brown	old road
L12W	0+75s	645755.23	6047778.7	21cm	brown	
L12W	1+25s	645808.91	6047638.07	30cm	lt brown	OC area Unit 2
L12W	1+75s	645826.51	6047590.34	25cm	brown	At 1+87s OC Unit 2
L12W	2+25s	645842.24	6047545.32	24cm	lt brown	
L12W	2+75s	645861.91	6047497.63	31cm	brown	
L12W	3+25s	645881.21	6047450.68	24cm	lt brown/brown	At 3+00s, OC Unit 2.
L12W	3+75s	645898.51	6047405.95	25cm	brown/tan/clay	
L12W	4+25s	645918.14	6047356.64	22cm	lt brown	
L12W	4+75s	645933.85	6047307.7	24cm	lt brown	Trench in Ovb located 3-4m upslope of station at 645941E, 6047321N.
L12W	5+25s	645950.88	6047266.59	21cm	lt brown	Edge of open area
L12W	5+75s	645968.58	6047220.95	24cm	brown	
L12W	6+25s	645987.92	6047170.35	26cm	brown	
L12W	6+75s	646005.27	6047122.71	24cm	brown	Field, Open area
L12W	7+25s	646023.96	6047074.42	23cm	brown	Field, Open area
L14W	0+25n	645627.56	6047615.79	22cm	lt brown	
L14W	0+75n	645609.46	6047658.67	26cm	lt brown	
L14W	1+25n	645591.01	6047700.12	23cm	brown	
L14W	1+75n	645574.34	6047744.22	18cm	brown/grey	
L14W	2+25n	645554.89	6047787.45	35cm	brown	At 2+50n, OC area of unit 1 with milky white QV's
L14W	2+75n	645535.89	6047831.9	21cm	lt brown	OC area of unit 1 with milky white QV's
L14W	3+25n	645515.33	6047877.56	22cm	brown	
L14W	3+75n	645496.55	6047923.23	24cm	lt brown	

Line	Station	Coordinates		Sample	Sample	Comments / Observations
Number		Easting	Northing	Depth	Description	
L14W	4+25n	645476.11	6047968.01	26cm	lt brown	
L14W	4+75n	645459.22	6048010.45	21cm	lt brown	Top of steep slope down to the north starting at 4+50n.

SECTION E: ANALYTICAL REPORTS

2010 Soil and Rock Geochem Sampling:

1. Analytical Certificates

File Number	Date of Certificate	No. of Samples	Analytical Procedure
Acme Analytical Laboratories Ltd., Vancouver, BC			
SMI10000490.1	September 14, 2010	402	1DX
SMI10000535.2	October 4, 2010	1	1E

2. Analytical Procedures (Acme Analytical Laboratories Ltd.

- Group 1DX 36 element ICP-MS
- Group 1E 35 element ICP-ES

Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Bard Ventures Ltd.**
Suite 800 - 1199 W. Hastings Street
Vancouver BC V6E 3T5 Canada

Submitted By: Rick Kemp
Receiving Lab: Canada-Smithers
Received: August 27, 2010
Report Date: September 14, 2010
Page: 1 of 15

CERTIFICATE OF ANALYSIS SMI10000490.1

CLIENT JOB INFORMATION

Project: Grouse Mountain
Shipment ID: 2010-1
P.O. Number
Number of Samples: 413

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	402	Dry at 60C sieve 100g to -80 mesh			SMI
Dry at 60C	402	Dry at 60C			SMI
RJSV	402	Saving all or part of Soil Reject			SMI
1DX1	402	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Bard Ventures Ltd.
Suite 800 - 1199 W. Hastings Street
Vancouver BC V6E 3T5
Canada

CC: Eugene Beukman
Erik Andersen
Jim Miller-Tait

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Bard Ventures Ltd.**
Suite 800 - 1199 W. Hastings Street
Vancouver BC V6E 3T5 Canada

Project: Grouse Mountain
Report Date: September 14, 2010

CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L0 025N	Soil	1.1	33.7	51.3	1482	1.0	9.9	10.5	1888	4.05	23.4	0.2	11.2	0.6	10	2.9	0.6	1.5	60	0.11	0.055
L0 075N	Soil	1.4	372.3	128.5	5480	3.3	11.7	12.1	3720	3.50	20.5	0.8	5.7	0.3	52	33.2	1.1	2.1	40	1.06	0.208
L0 125N	Soil	1.3	38.3	71.4	751	0.9	7.0	6.7	819	4.55	18.9	0.2	9.9	0.5	8	1.2	0.3	3.3	68	0.05	0.065
L0 175N	Soil	2.3	21.1	28.6	725	0.5	10.8	8.0	561	4.00	21.6	0.3	1.3	0.5	27	1.0	0.2	0.4	62	0.35	0.035
L0 225N	Soil	1.0	13.6	19.5	220	0.2	6.8	5.7	345	3.34	10.8	0.2	0.6	0.5	13	0.5	0.2	0.4	65	0.14	0.060
L0 275N	Soil	0.4	13.5	12.2	69	<0.1	2.9	2.0	159	1.04	2.0	0.2	1.0	<0.1	20	0.4	<0.1	0.2	31	0.23	0.051
L0 325N	Soil	1.4	26.9	33.9	391	0.6	9.7	6.4	377	3.81	18.1	0.3	1.8	0.9	9	0.7	0.4	0.4	58	0.06	0.044
L0 375N	Soil	1.0	123.3	54.8	1104	1.9	13.9	11.1	1547	3.76	19.7	0.6	2.2	0.4	76	4.3	0.5	0.5	50	0.91	0.102
L0 425N	Soil	1.0	19.6	25.7	330	0.3	9.0	6.7	405	3.97	18.8	0.2	<0.5	0.7	10	0.5	0.3	0.3	71	0.09	0.047
L0 475N	Soil	0.5	17.2	12.2	210	0.1	9.2	6.7	433	2.64	7.4	0.3	0.5	0.5	13	0.2	0.2	0.2	52	0.13	0.022
L0 025S	Soil	1.0	121.1	124.5	1456	4.1	6.1	8.4	1743	2.92	17.5	0.5	3.6	0.1	79	12.9	0.7	1.8	34	1.56	0.107
L0 075S	Soil	1.8	21.5	75.9	355	0.6	7.0	11.6	1774	4.82	15.7	0.3	2.0	0.2	17	1.5	0.3	0.5	77	0.19	0.084
L0 125S	Soil	1.3	14.5	42.4	463	0.2	6.7	5.7	531	3.28	10.2	0.2	0.7	0.4	13	1.2	0.2	0.5	79	0.13	0.068
L0 175S	Soil	1.4	26.8	53.4	768	0.5	8.3	11.3	2516	4.26	23.1	0.1	0.9	0.4	19	2.1	0.4	1.3	73	0.24	0.064
L0 225S	Soil	3.7	20.9	17.9	937	0.3	4.0	5.1	234	3.27	12.2	0.1	<0.5	0.5	14	1.9	0.2	0.3	64	0.18	0.034
L0 275S	Soil	2.9	41.7	71.0	1082	0.3	12.2	11.3	935	5.54	63.8	0.2	1.4	0.7	13	1.7	0.4	0.6	88	0.13	0.035
L0 325S	Soil	1.5	65.9	40.7	901	1.3	13.9	9.9	1256	3.70	29.4	0.5	<0.5	0.3	39	3.5	0.4	0.6	68	0.68	0.074
L0 375S	Soil	2.0	20.6	30.4	569	0.2	7.8	6.1	504	3.24	15.4	0.2	1.7	0.3	15	1.4	0.2	1.6	77	0.15	0.036
L0 425S	Soil	1.9	56.1	29.2	474	0.3	10.7	6.8	417	3.89	25.7	0.2	2.1	0.1	18	0.9	0.4	0.9	89	0.19	0.047
L0 475S	Soil	1.9	290.9	44.6	1476	1.0	16.3	11.0	1326	3.28	21.4	0.3	0.8	0.1	23	5.1	0.3	0.7	73	0.29	0.053
L0 525S	Soil	1.9	40.4	81.1	711	0.6	16.0	9.0	420	4.79	32.0	0.4	2.1	0.7	10	1.1	0.6	0.8	84	0.08	0.055
L0 575S	Soil	1.8	19.7	37.2	183	0.4	9.2	6.4	290	4.30	26.9	0.2	<0.5	0.4	12	0.5	0.5	0.3	102	0.08	0.070
L0 625S	Soil	1.8	33.7	30.6	494	0.5	16.4	10.2	413	5.03	25.0	0.3	0.8	0.5	18	1.1	0.5	0.2	112	0.18	0.039
L0 675S	Soil	1.2	23.5	35.8	410	0.7	9.3	5.7	279	3.86	15.6	0.2	1.0	<0.1	9	0.7	0.5	0.3	76	0.07	0.053
L0 725S	Soil	1.5	26.6	53.4	140	0.4	8.1	8.2	921	3.79	17.6	0.3	0.7	<0.1	11	0.5	0.4	0.2	94	0.07	0.092
L0 775S	Soil	1.4	64.1	122.3	434	0.3	17.6	12.6	1597	4.57	29.6	0.5	1.6	0.2	16	1.4	0.7	0.2	87	0.19	0.164
L0 825S	Soil	1.2	35.2	45.4	338	0.4	18.3	12.5	935	4.57	31.6	0.4	<0.5	0.3	18	0.9	0.7	0.2	100	0.18	0.068
L1W 025S	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L1W 050S	Soil	1.4	49.4	186.4	1207	1.9	9.2	10.9	1009	4.45	30.1	0.2	28.0	0.6	8	1.7	0.5	4.2	62	0.08	0.062
L1W 075S	Soil	2.1	45.4	116.4	1056	0.9	8.3	9.4	596	6.01	31.0	0.2	7.8	0.6	14	1.6	0.5	4.8	90	0.16	0.051

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Suite 800 - 1199 W. Hastings Street
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Project: Grouse Mountain
Report Date: September 14, 2010

CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L0 025N	Soil	7	19	0.53	94	0.016	<20	2.62	0.006	0.05	<0.1	0.09	4.0	0.1	<0.05	7	<0.5	<0.2
L0 075N	Soil	26	19	0.43	111	0.016	<20	2.66	0.009	0.05	<0.1	0.23	4.8	<0.1	0.13	5	1.7	<0.2
L0 125N	Soil	6	15	0.35	81	0.011	<20	2.31	0.005	0.05	<0.1	0.05	3.1	0.1	<0.05	8	<0.5	<0.2
L0 175N	Soil	8	17	0.58	122	0.009	<20	2.46	0.008	0.04	<0.1	0.03	4.2	<0.1	<0.05	8	<0.5	<0.2
L0 225N	Soil	7	14	0.38	80	0.012	<20	1.94	0.006	0.05	<0.1	0.03	3.2	0.1	<0.05	8	<0.5	<0.2
L0 275N	Soil	9	8	0.17	115	0.008	<20	1.29	0.006	0.05	<0.1	0.03	0.9	<0.1	<0.05	7	<0.5	<0.2
L0 325N	Soil	8	15	0.46	149	0.019	<20	2.76	0.008	0.04	0.1	0.08	4.1	0.1	<0.05	10	<0.5	<0.2
L0 375N	Soil	22	21	0.48	277	0.012	<20	2.52	0.012	0.08	<0.1	0.12	6.3	0.1	<0.05	7	1.3	<0.2
L0 425N	Soil	6	17	0.48	138	0.017	<20	2.35	0.006	0.05	<0.1	0.03	3.8	<0.1	<0.05	7	<0.5	<0.2
L0 475N	Soil	7	15	0.54	182	0.018	<20	1.74	0.008	0.05	<0.1	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
L0 025S	Soil	22	12	0.29	111	0.014	<20	1.64	0.009	0.05	<0.1	0.19	2.5	<0.1	0.09	5	1.2	<0.2
L0 075S	Soil	8	16	0.27	98	0.018	<20	1.86	0.007	0.06	0.1	0.06	2.1	0.1	<0.05	9	<0.5	<0.2
L0 125S	Soil	8	14	0.27	168	0.012	<20	1.74	0.007	0.05	<0.1	0.02	2.9	<0.1	<0.05	8	<0.5	<0.2
L0 175S	Soil	7	15	0.48	187	0.017	<20	2.01	0.007	0.08	<0.1	0.05	3.6	0.1	<0.05	7	<0.5	<0.2
L0 225S	Soil	8	10	0.29	58	0.007	<20	1.63	0.006	0.03	<0.1	0.02	2.9	<0.1	<0.05	8	<0.5	<0.2
L0 275S	Soil	8	22	0.63	162	0.018	<20	2.55	0.007	0.07	<0.1	0.02	5.1	0.1	<0.05	8	<0.5	<0.2
L0 325S	Soil	18	22	0.59	177	0.017	<20	2.62	0.011	0.06	<0.1	0.07	5.3	0.1	<0.05	8	0.6	<0.2
L0 375S	Soil	7	16	0.38	137	0.016	<20	1.95	0.007	0.04	<0.1	0.03	3.4	<0.1	<0.05	8	<0.5	<0.2
L0 425S	Soil	7	20	0.50	147	0.019	<20	2.21	0.009	0.05	<0.1	0.02	3.0	<0.1	<0.05	9	<0.5	<0.2
L0 475S	Soil	7	29	0.71	176	0.015	<20	2.64	0.011	0.07	<0.1	0.03	3.2	0.1	<0.05	8	0.6	<0.2
L0 525S	Soil	6	28	0.62	103	0.018	<20	3.23	0.008	0.05	<0.1	0.09	5.1	0.1	<0.05	7	0.6	<0.2
L0 575S	Soil	6	21	0.39	73	0.025	<20	1.95	0.006	0.05	<0.1	0.05	3.8	0.1	<0.05	8	<0.5	<0.2
L0 625S	Soil	5	33	0.78	129	0.030	<20	2.99	0.007	0.05	<0.1	0.07	5.4	<0.1	<0.05	9	<0.5	<0.2
L0 675S	Soil	6	21	0.40	50	0.022	<20	2.01	0.008	0.04	<0.1	0.05	2.4	<0.1	<0.05	8	<0.5	<0.2
L0 725S	Soil	6	21	0.31	93	0.020	<20	2.00	0.008	0.06	<0.1	0.05	1.2	<0.1	<0.05	8	<0.5	<0.2
L0 775S	Soil	13	29	0.72	115	0.039	<20	3.06	0.009	0.08	<0.1	0.07	6.4	0.1	<0.05	9	0.8	<0.2
L0 825S	Soil	6	32	0.72	117	0.049	<20	2.39	0.011	0.07	<0.1	0.03	4.9	<0.1	<0.05	8	0.5	<0.2
L1W 025S	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L1W 050S	Soil	7	18	0.51	91	0.015	<20	2.45	0.004	0.04	<0.1	0.09	3.9	0.1	<0.05	7	<0.5	<0.2
L1W 075S	Soil	6	20	0.43	91	0.019	<20	2.44	0.007	0.04	<0.1	0.05	3.8	<0.1	<0.05	9	<0.5	<0.2

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Project: Grouse Mountain
Report Date: September 14, 2010

CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L1W 100S	Soil	1.7	33.2	54.4	1365	1.2	7.7	9.6	1712	4.17	17.4	0.2	0.9	0.2	29	4.2	0.4	1.8	60	0.39	0.052
L1W 125S	Soil	1.4	17.6	29.1	343	0.6	8.2	6.9	382	4.38	19.1	0.2	9.2	0.3	10	0.7	0.5	1.7	77	0.08	0.064
L1W 150S	Soil	1.4	24.6	35.2	431	0.2	11.0	7.1	582	4.71	23.7	0.3	0.6	0.9	9	0.6	0.3	0.6	80	0.09	0.077
L1W 175S	Soil	2.4	24.0	33.7	386	0.8	16.0	10.3	431	5.00	14.8	0.6	1.6	1.6	8	0.8	0.5	0.6	118	0.06	0.056
L1W 200S	Soil	1.2	21.2	30.4	439	0.2	9.3	8.1	932	4.90	20.2	0.2	<0.5	0.4	9	0.9	0.5	0.6	69	0.08	0.134
L1W 225S	Soil	2.2	29.2	31.7	503	0.4	10.0	8.1	693	5.19	27.7	0.2	<0.5	0.6	11	0.9	0.5	0.7	77	0.09	0.071
L1W 250S	Soil	2.4	34.1	104.3	1042	0.6	8.3	14.9	3350	5.10	22.8	0.2	0.5	0.1	27	4.9	0.6	1.6	60	0.52	0.119
L1W 275S	Soil	2.5	142.6	176.4	2803	1.3	13.2	15.6	3964	4.69	34.3	0.4	1.5	0.3	23	13.6	0.9	1.2	55	0.39	0.107
L1W 300S	Soil	1.9	24.5	19.5	210	0.4	10.5	8.2	648	4.42	29.9	0.2	0.7	0.2	10	0.7	0.5	0.4	74	0.12	0.053
L1W 325S	Soil	1.9	24.9	35.6	342	0.2	10.2	7.0	414	4.16	29.7	0.2	2.4	0.4	9	0.7	0.5	0.7	78	0.09	0.055
L1W 350S	Soil	1.3	66.8	35.5	440	0.3	15.2	9.6	464	3.98	31.1	0.3	3.5	0.9	7	0.4	0.5	0.7	70	0.06	0.031
L1W 375S	Soil	1.6	34.7	26.4	657	0.4	11.5	7.2	376	4.21	27.8	0.3	0.9	0.8	8	1.0	0.3	0.5	79	0.06	0.038
L1W 400S	Soil	1.3	43.6	47.5	2542	1.2	11.5	7.8	925	3.78	19.2	0.3	1.1	0.5	10	3.3	0.1	1.9	69	0.11	0.056
L1W 425S	Soil	1.8	61.0	35.3	631	0.4	9.9	9.4	763	3.62	25.8	0.2	0.6	0.3	19	2.1	0.3	0.8	75	0.28	0.051
L1W 450S	Soil	1.7	87.6	52.0	362	0.4	16.2	13.4	1216	3.85	40.6	0.2	<0.5	0.1	18	1.3	0.7	0.4	69	0.22	0.074
L1W 475S	Soil	2.1	62.9	45.7	364	0.8	10.0	7.2	513	4.64	29.7	0.2	<0.5	0.2	11	0.8	0.4	1.4	86	0.11	0.065
L1W 500S	Soil	1.2	68.3	55.6	505	0.6	8.1	8.7	758	2.71	19.0	0.4	<0.5	<0.1	11	2.6	0.2	0.7	60	0.08	0.085
L1W 525S	Soil	1.4	18.0	25.5	259	0.3	6.9	4.5	234	2.85	15.4	0.2	1.0	<0.1	10	1.5	0.4	0.4	74	0.08	0.041
L1W 550S	Soil	1.5	57.6	25.9	2047	0.6	14.7	8.6	1233	3.90	24.2	0.3	<0.5	0.3	13	3.5	0.3	0.5	80	0.14	0.064
L1W 575S	Soil	2.0	153.3	31.6	685	0.4	9.0	6.6	824	3.68	23.6	0.2	1.1	0.1	9	2.9	0.4	0.7	75	0.13	0.068
L1W 600S	Soil	2.0	27.5	202.5	409	0.3	6.6	4.9	559	5.46	26.7	0.2	0.7	0.2	8	1.2	0.4	0.4	88	0.10	0.061
L1W 625S	Soil	6.4	103.9	70.6	1442	1.7	14.7	15.4	3954	3.61	31.0	0.5	1.6	0.1	68	9.9	0.8	0.3	64	1.10	0.137
L1W 650S	Soil	1.3	31.6	586.8	608	2.2	12.5	7.9	446	5.44	1316	0.3	6.1	0.3	11	1.4	1.6	0.2	97	0.13	0.047
L1W 675S	Soil	1.9	24.0	62.9	529	1.2	16.4	13.1	346	5.69	21.9	0.1	<0.5	0.5	19	0.7	0.3	0.7	137	0.19	0.070
L1W 700S	Soil	1.4	19.1	37.6	387	0.7	6.6	4.3	296	5.25	23.2	0.2	<0.5	0.3	8	0.6	0.4	0.4	77	0.07	0.047
L1W 725S	Soil	1.4	175.6	195.7	2269	2.3	18.4	10.7	1375	3.60	18.8	0.3	3.4	0.2	31	6.6	0.7	0.2	64	0.55	0.067
L1W 750S	Soil	5.0	299.3	4085	1447	33.7	7.7	20.9	6165	7.20	52.0	0.3	91.0	0.4	37	6.0	2.0	3.9	70	0.75	0.152
L1W 775S	Soil	1.5	81.7	158.0	1429	2.6	17.0	9.8	1521	3.94	28.8	0.4	1.4	0.2	31	4.1	0.5	0.2	76	0.57	0.054
L1W 800S	Soil	1.0	14.4	106.9	197	0.9	5.6	3.4	196	2.17	10.3	0.2	<0.5	<0.1	22	1.0	0.4	0.1	73	0.34	0.028
L1W 825S	Soil	3.0	175.1	60.4	621	3.9	25.8	18.0	1708	4.31	28.1	1.4	2.0	0.9	40	2.9	0.5	0.2	89	0.82	0.189

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Project: Grouse Mountain
Report Date: September 14, 2010

CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L1W 100S	Soil	7	15	0.39	98	0.015	<20	1.70	0.008	0.05	0.1	0.05	2.5	<0.1	<0.05	7	<0.5	<0.2
L1W 125S	Soil	6	18	0.37	73	0.022	<20	1.83	0.005	0.03	<0.1	0.05	3.0	<0.1	<0.05	7	<0.5	<0.2
L1W 150S	Soil	7	14	0.45	107	0.021	<20	2.43	0.007	0.06	<0.1	0.05	4.1	0.1	<0.05	8	<0.5	<0.2
L1W 175S	Soil	8	20	0.51	70	0.055	<20	1.81	0.007	0.04	<0.1	0.04	3.0	<0.1	<0.05	9	<0.5	<0.2
L1W 200S	Soil	7	16	0.45	98	0.025	<20	2.20	0.006	0.05	<0.1	0.05	3.2	<0.1	<0.05	8	0.5	<0.2
L1W 225S	Soil	7	17	0.57	119	0.020	<20	2.61	0.007	0.04	<0.1	0.06	4.2	<0.1	<0.05	8	<0.5	<0.2
L1W 250S	Soil	9	14	0.44	119	0.022	<20	2.22	0.006	0.06	<0.1	0.07	2.6	<0.1	<0.05	7	0.6	<0.2
L1W 275S	Soil	17	19	0.64	137	0.014	<20	2.58	0.005	0.06	<0.1	0.06	3.9	<0.1	<0.05	7	<0.5	<0.2
L1W 300S	Soil	6	17	0.54	116	0.013	<20	2.08	0.004	0.04	0.1	0.04	2.4	<0.1	<0.05	7	<0.5	<0.2
L1W 325S	Soil	6	18	0.50	107	0.018	<20	2.29	0.004	0.04	<0.1	0.04	2.9	<0.1	<0.05	7	<0.5	<0.2
L1W 350S	Soil	6	23	0.65	93	0.021	<20	3.07	0.005	0.04	<0.1	0.07	4.0	<0.1	<0.05	6	<0.5	<0.2
L1W 375S	Soil	6	19	0.54	85	0.019	<20	3.09	0.005	0.04	<0.1	0.06	3.8	0.1	<0.05	8	0.6	<0.2
L1W 400S	Soil	7	20	0.52	115	0.013	<20	2.53	0.005	0.05	<0.1	0.06	3.5	0.2	<0.05	8	<0.5	<0.2
L1W 425S	Soil	10	17	0.49	177	0.011	<20	1.93	0.005	0.07	<0.1	0.03	3.0	<0.1	<0.05	7	<0.5	<0.2
L1W 450S	Soil	6	23	0.71	141	0.016	<20	2.00	0.006	0.05	<0.1	0.04	2.5	<0.1	<0.05	6	<0.5	<0.2
L1W 475S	Soil	6	21	0.44	83	0.019	<20	1.87	0.005	0.05	<0.1	0.06	2.3	<0.1	<0.05	7	<0.5	<0.2
L1W 500S	Soil	9	15	0.34	181	0.006	<20	2.18	0.004	0.05	<0.1	0.05	0.6	<0.1	<0.05	7	<0.5	<0.2
L1W 525S	Soil	6	14	0.31	106	0.020	<20	1.64	0.004	0.04	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
L1W 550S	Soil	6	28	0.66	131	0.010	<20	3.05	0.006	0.07	<0.1	0.06	2.7	0.2	<0.05	9	<0.5	<0.2
L1W 575S	Soil	7	21	0.41	77	0.015	<20	2.28	0.004	0.04	<0.1	0.07	2.0	<0.1	<0.05	7	<0.5	<0.2
L1W 600S	Soil	9	17	0.25	68	0.013	<20	2.08	0.004	0.04	<0.1	0.06	2.0	<0.1	<0.05	8	<0.5	<0.2
L1W 625S	Soil	12	23	0.51	167	0.012	<20	2.43	0.009	0.08	<0.1	0.10	3.0	<0.1	0.09	6	0.6	<0.2
L1W 650S	Soil	5	27	0.57	65	0.027	<20	2.33	0.005	0.04	<0.1	0.11	3.1	<0.1	<0.05	8	<0.5	<0.2
L1W 675S	Soil	8	33	1.03	96	0.068	<20	1.82	0.024	0.04	<0.1	0.05	3.4	<0.1	<0.05	9	<0.5	<0.2
L1W 700S	Soil	6	16	0.27	39	0.012	<20	1.93	0.001	0.03	<0.1	0.04	1.9	<0.1	<0.05	8	<0.5	<0.2
L1W 725S	Soil	10	29	0.87	70	0.026	<20	2.24	0.006	0.05	<0.1	0.08	4.1	<0.1	0.07	6	<0.5	<0.2
L1W 750S	Soil	7	18	0.19	91	0.005	<20	2.06	0.003	0.06	0.1	0.30	3.1	0.2	0.08	6	0.8	<0.2
L1W 775S	Soil	10	28	0.74	109	0.022	<20	2.43	0.007	0.06	<0.1	0.08	4.2	0.1	<0.05	7	<0.5	<0.2
L1W 800S	Soil	6	14	0.22	83	0.017	<20	1.13	0.004	0.03	<0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
L1W 825S	Soil	39	42	0.64	199	0.009	<20	4.81	0.010	0.08	<0.1	0.26	7.5	0.1	0.09	7	1.2	<0.2

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CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L1W 850S	Soil	1.5	40.5	31.9	152	0.6	11.0	5.2	225	2.52	6.9	0.6	0.7	<0.1	13	0.8	0.2	0.2	53	0.16	0.084
L1W 000N	Soil	1.3	19.6	23.0	176	0.3	13.1	7.2	346	2.95	9.8	0.3	<0.5	<0.1	11	0.2	0.3	0.1	74	0.09	0.061
L1W 025N	Soil	1.3	15.6	52.5	914	0.5	9.0	7.5	536	4.28	20.1	0.1	0.6	0.6	8	1.0	0.2	1.1	69	0.08	0.050
L1W 050N	Soil	2.1	49.4	58.3	490	0.8	6.6	8.7	797	4.26	29.2	0.1	9.9	0.3	9	2.1	0.4	1.1	67	0.10	0.039
L1W 075N	Soil	1.1	222.4	82.8	4491	2.6	19.9	15.9	2761	4.41	21.0	0.4	8.9	0.3	20	14.5	0.9	0.9	70	0.40	0.083
L1W 100N	Soil	1.8	251.7	80.6	2753	2.3	8.3	16.4	3078	5.36	27.5	0.5	4.2	0.3	39	15.8	0.5	0.5	70	0.81	0.089
L1W 125N	Soil	1.6	15.6	31.6	280	0.3	7.0	5.9	404	4.50	15.0	0.2	<0.5	0.6	7	0.8	0.3	0.3	78	0.06	0.045
L1W 150N	Soil	1.6	14.3	30.0	339	0.5	8.4	6.5	462	5.18	24.7	0.2	1.9	0.5	8	0.7	0.4	0.4	70	0.06	0.062
L1W 175N	Soil	2.1	18.7	31.0	453	0.3	7.2	7.8	631	5.36	18.3	0.2	<0.5	0.4	19	2.5	0.3	0.4	81	0.20	0.054
L1W 200N	Soil	1.1	48.7	40.1	988	1.0	11.0	11.1	1516	4.01	20.9	0.2	<0.5	0.2	22	2.5	0.4	0.4	75	0.38	0.053
L1W 225N	Soil	1.2	26.2	35.4	1092	0.3	10.8	10.9	887	4.60	24.8	0.3	0.6	0.8	21	1.4	0.1	0.6	69	0.34	0.039
L1W 250N	Soil	1.0	123.0	54.3	1344	1.7	13.4	8.7	2020	3.77	19.7	0.6	2.0	0.5	40	6.4	0.4	0.5	51	0.73	0.097
L1W 275N	Soil	1.4	21.1	39.5	486	0.2	9.3	9.2	593	4.55	28.3	0.2	<0.5	0.5	10	0.6	0.3	0.4	69	0.13	0.031
L1W 300N	Soil	0.8	12.7	23.3	401	0.3	8.2	5.8	530	2.94	14.2	0.2	0.7	0.4	19	0.7	0.2	0.3	48	0.22	0.035
L1W 325N	Soil	1.1	422.5	86.5	4350	4.1	15.2	10.0	2688	3.42	21.1	0.9	16.8	0.5	114	18.8	0.9	0.4	38	1.60	0.287
L1W 350N	Soil	0.7	14.1	25.3	251	0.3	7.8	7.3	693	3.91	16.5	0.2	<0.5	0.6	7	0.4	0.3	0.4	61	0.08	0.113
L1W 375N	Soil	1.2	94.3	77.1	1476	1.1	13.6	11.4	2849	3.66	18.6	0.4	1.5	0.3	36	4.4	0.5	0.4	55	0.38	0.083
L1W 400N	Soil	1.2	172.1	60.6	418	3.1	9.0	10.4	2143	4.22	30.7	0.2	1.8	0.6	9	1.3	0.5	0.8	59	0.10	0.071
L1W 425N	Soil	0.8	12.0	34.3	210	0.4	6.0	6.1	562	3.85	13.8	0.2	1.2	0.6	7	0.4	0.2	0.3	67	0.06	0.088
L2W 025S	Soil	1.2	144.4	32.5	645	4.1	19.6	9.6	2469	3.94	22.9	1.1	4.1	0.4	49	3.6	0.5	0.4	59	1.01	0.154
L2W 075S	Soil	1.6	13.3	30.3	381	1.0	6.8	5.3	321	5.11	19.0	0.2	1.9	0.5	6	0.7	0.2	0.6	75	0.05	0.048
L2W 125S	Soil	1.3	19.1	17.8	355	0.4	13.1	6.7	312	4.44	15.7	0.3	0.5	0.3	13	0.9	0.4	0.2	87	0.14	0.044
L2W 175S	Soil	1.8	849.9	236.7	7643	2.5	29.2	16.9	3639	4.68	25.3	1.4	10.8	0.8	44	23.7	0.9	0.9	136	1.11	0.289
L2W 225S	Soil	1.8	18.8	31.4	571	0.6	9.1	7.6	846	4.63	17.6	0.2	0.9	0.6	11	1.3	0.5	0.5	67	0.13	0.054
L2W 275S	Soil	1.8	72.3	200.1	2346	2.6	12.3	13.2	3025	4.73	36.5	0.3	53.3	0.4	17	6.1	0.6	2.5	64	0.38	0.074
L2W 325S	Soil	1.6	40.8	74.3	782	0.9	10.0	9.9	3561	4.08	19.4	0.3	<0.5	0.1	14	5.6	0.3	0.4	67	0.19	0.074
L2W 375S	Soil	1.8	47.0	32.9	557	0.3	16.1	10.0	570	4.12	32.2	0.3	1.0	0.6	10	1.1	0.4	0.8	71	0.10	0.065
L2W 425S	Soil	1.5	66.6	33.7	914	0.4	16.8	9.0	487	3.95	29.8	0.4	0.9	0.9	12	0.9	0.4	1.0	81	0.12	0.035
L2W 475S	Soil	2.4	33.0	61.5	494	0.7	11.8	9.3	609	4.65	33.6	0.3	0.8	0.2	12	1.2	0.4	0.6	90	0.11	0.052
L2W 525S	Soil	1.9	25.6	60.0	339	0.6	8.7	5.6	318	4.01	21.9	0.3	0.9	0.6	9	0.7	0.3	0.6	94	0.06	0.042

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Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L1W 850S	Soil	7	21	0.35	98	0.008	<20	2.38	0.006	0.04	<0.1	0.08	0.5	<0.1	0.06	7	<0.5	<0.2
L1W 000N	Soil	6	21	0.63	73	0.027	<20	1.89	0.008	0.05	<0.1	0.04	1.5	<0.1	<0.05	8	<0.5	<0.2
L1W 025N	Soil	6	18	0.47	79	0.014	<20	2.24	0.004	0.04	<0.1	0.06	2.6	<0.1	<0.05	7	<0.5	<0.2
L1W 050N	Soil	5	15	0.25	121	0.013	<20	1.57	0.003	0.04	<0.1	0.04	1.7	<0.1	<0.05	7	<0.5	<0.2
L1W 075N	Soil	14	30	0.84	56	0.021	<20	2.09	0.006	0.04	<0.1	0.28	4.4	<0.1	<0.05	6	0.8	<0.2
L1W 100N	Soil	18	18	0.31	74	0.023	<20	2.46	0.004	0.04	0.1	0.17	3.7	<0.1	<0.05	8	0.7	<0.2
L1W 125N	Soil	6	14	0.29	108	0.010	<20	2.27	0.003	0.05	<0.1	0.03	2.7	0.1	<0.05	9	<0.5	<0.2
L1W 150N	Soil	5	16	0.38	68	0.018	<20	2.00	0.003	0.04	0.1	0.05	2.1	<0.1	<0.05	8	<0.5	<0.2
L1W 175N	Soil	7	16	0.29	167	0.026	<20	1.84	0.004	0.05	0.2	0.04	2.3	<0.1	<0.05	9	<0.5	<0.2
L1W 200N	Soil	8	20	0.46	139	0.010	<20	2.22	0.006	0.06	<0.1	0.06	2.5	<0.1	<0.05	7	<0.5	<0.2
L1W 225N	Soil	8	17	0.51	149	0.008	<20	2.75	0.004	0.05	<0.1	0.04	4.1	<0.1	<0.05	9	<0.5	<0.2
L1W 250N	Soil	22	21	0.48	209	0.010	<20	2.66	0.006	0.06	<0.1	0.15	5.2	<0.1	<0.05	7	<0.5	<0.2
L1W 275N	Soil	6	17	0.48	169	0.008	<20	2.18	0.005	0.05	<0.1	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2
L1W 300N	Soil	8	13	0.50	176	0.007	<20	1.84	0.004	0.04	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
L1W 325N	Soil	38	19	0.39	179	0.009	<20	3.04	0.006	0.07	<0.1	0.30	6.7	<0.1	0.12	5	1.8	<0.2
L1W 350N	Soil	6	14	0.35	94	0.010	<20	1.91	0.003	0.07	<0.1	0.05	3.0	0.1	<0.05	6	<0.5	<0.2
L1W 375N	Soil	15	19	0.52	184	0.012	<20	2.07	0.005	0.07	<0.1	0.08	3.8	0.1	<0.05	6	0.7	0.3
L1W 400N	Soil	7	15	0.42	123	0.007	<20	2.05	0.003	0.06	<0.1	0.11	3.0	0.1	<0.05	6	<0.5	<0.2
L1W 425N	Soil	7	13	0.27	79	0.013	<20	1.79	0.003	0.05	<0.1	0.05	2.7	0.1	<0.05	7	<0.5	<0.2
L2W 025S	Soil	47	26	0.60	485	0.005	<20	3.41	0.009	0.12	<0.1	0.22	7.1	0.1	<0.05	7	1.1	<0.2
L2W 075S	Soil	5	16	0.36	69	0.013	<20	2.04	0.003	0.03	<0.1	0.05	2.6	<0.1	<0.05	8	<0.5	0.2
L2W 125S	Soil	5	24	0.48	92	0.025	<20	2.01	0.005	0.03	<0.1	0.05	2.7	<0.1	<0.05	8	<0.5	<0.2
L2W 175S	Soil	69	37	0.82	112	0.062	<20	2.58	0.011	0.09	<0.1	0.34	7.9	<0.1	<0.05	7	2.0	<0.2
L2W 225S	Soil	8	16	0.52	68	0.019	<20	2.19	0.003	0.04	<0.1	0.05	3.1	<0.1	<0.05	7	<0.5	<0.2
L2W 275S	Soil	34	20	0.62	67	0.023	<20	2.55	0.004	0.06	<0.1	0.09	4.6	<0.1	<0.05	7	0.9	<0.2
L2W 325S	Soil	12	18	0.34	138	0.011	<20	2.03	0.002	0.06	<0.1	0.05	2.0	0.1	<0.05	7	<0.5	<0.2
L2W 375S	Soil	6	23	0.65	101	0.016	<20	2.57	0.006	0.05	<0.1	0.06	3.6	0.1	<0.05	7	<0.5	<0.2
L2W 425S	Soil	7	25	0.65	99	0.027	<20	2.51	0.005	0.05	<0.1	0.06	3.9	<0.1	<0.05	6	<0.5	<0.2
L2W 475S	Soil	6	24	0.50	91	0.020	<20	2.22	0.004	0.05	<0.1	0.06	3.1	<0.1	<0.05	7	<0.5	<0.2
L2W 525S	Soil	7	20	0.39	77	0.019	<20	2.03	0.004	0.04	<0.1	0.04	3.2	<0.1	<0.05	8	<0.5	<0.2

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Project: Grouse Mountain
Report Date: September 14, 2010

CERTIFICATE OF ANALYSIS SMI10000490.1

		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L2W 575S	Soil		1.8	49.8	54.9	739	0.2	17.3	10.6	510	4.16	30.2	0.4	1.0	1.2	11	0.8	0.5	0.9	91	0.08	0.034
L2W 625S	Soil		1.4	156.2	41.9	2137	1.1	16.1	9.9	922	3.27	20.3	0.5	1.8	0.1	42	8.2	0.6	0.3	71	0.68	0.064
L2W 675S	Soil		2.3	154.7	131.9	1087	1.4	9.4	8.6	500	5.97	39.6	0.3	2.5	1.0	8	1.4	0.4	1.9	89	0.06	0.075
L2W 725S	Soil		1.9	31.9	52.6	505	1.4	15.3	9.1	373	5.30	26.8	0.3	1.7	0.8	12	0.7	0.5	0.3	121	0.11	0.036
L2W 775S	Soil		3.8	18.5	174.2	360	1.4	9.9	6.1	467	3.92	20.9	0.3	1.1	0.2	12	0.9	0.5	0.2	64	0.10	0.111
L2W 825S	Soil		4.3	46.6	21.4	127	0.1	31.4	11.5	223	4.23	9.4	1.0	<0.5	1.1	29	<0.1	0.2	0.1	165	0.69	0.369
L2W 875S	Soil		2.7	61.7	29.4	197	<0.1	27.0	12.4	417	4.25	20.4	0.6	1.0	1.4	15	0.2	0.5	0.1	118	0.30	0.167
L2W 025N	Soil		1.1	29.4	27.3	200	0.2	17.0	8.5	377	3.50	15.7	0.3	0.7	0.2	12	0.4	0.3	0.1	86	0.11	0.057
L2W 075N	Soil		1.1	664.1	81.7	7459	4.6	12.3	11.9	3520	3.21	15.8	0.6	6.0	0.3	48	40.3	0.8	0.9	41	1.11	0.154
L2W 125N	Soil		1.3	276.9	68.9	2725	2.8	16.6	12.8	2338	4.16	29.0	0.8	8.6	0.4	38	10.0	0.9	0.7	58	0.74	0.102
L2W 175N	Soil		2.2	377.4	114.7	1579	3.4	14.5	13.6	4192	4.13	36.1	1.3	17.5	0.8	70	6.0	1.2	0.7	47	1.32	0.214
L2W 225N	Soil		1.4	27.1	37.1	472	0.7	11.1	7.5	634	4.17	18.3	0.3	0.7	0.5	12	1.2	0.3	0.4	77	0.12	0.061
L2W 275N	Soil		1.3	18.0	28.6	419	0.7	10.7	7.5	534	4.60	22.1	0.2	0.6	0.2	12	1.0	0.4	0.4	69	0.11	0.065
L2W 325N	Soil		1.2	173.6	65.1	1916	2.2	18.1	10.5	1989	4.04	23.8	0.6	3.6	0.4	54	6.9	0.7	0.5	55	0.82	0.118
L3W 000S	Soil		1.6	23.9	28.9	474	1.6	10.0	7.0	607	4.62	14.3	0.2	<0.5	0.3	15	1.3	0.3	0.2	91	0.18	0.053
L3W 025S	Soil		1.8	17.9	53.0	817	1.0	9.7	9.0	774	4.80	23.5	0.2	1.0	0.8	10	1.8	0.2	0.6	88	0.10	0.046
L3W 050S	Soil		1.5	31.5	88.8	701	2.1	8.8	9.0	639	4.51	20.5	0.2	8.4	0.4	11	1.7	0.3	2.6	77	0.10	0.072
L3W 075S	Soil		1.2	18.2	40.7	541	0.4	12.0	9.2	701	3.81	16.9	0.2	0.5	0.4	15	1.2	0.3	0.5	74	0.17	0.031
L3W 100S	Soil		1.8	58.8	54.6	758	0.9	19.1	13.5	804	5.02	37.4	0.5	1.2	1.0	21	1.4	0.5	0.6	97	0.35	0.048
L3W 125S	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L3W 150S	Soil		1.4	215.8	65.8	3277	1.1	16.8	11.1	1222	3.21	25.7	0.4	7.6	0.4	48	12.2	0.8	0.8	56	1.32	0.092
L3W 175S	Soil		1.8	297.9	34.2	2949	5.0	25.4	14.5	1738	3.89	27.5	1.5	6.5	0.5	66	10.3	0.9	0.4	61	1.25	0.079
L3W 200S	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L3W 225S	Soil		1.7	36.4	55.9	710	0.6	13.6	9.5	698	6.08	18.6	0.3	2.5	0.6	7	1.0	0.4	0.4	82	0.09	0.104
L3W 250S	Soil		2.1	36.7	34.5	468	0.3	8.4	5.9	343	4.00	23.6	0.2	2.8	0.2	11	1.4	0.4	0.6	90	0.11	0.038
L3W 275S	Soil		1.7	34.1	51.0	974	0.4	14.2	9.0	699	4.10	36.6	0.3	3.1	0.6	13	0.9	0.4	0.7	76	0.13	0.024
L3W 300S	Soil		1.7	87.5	46.3	1277	1.0	16.5	10.0	1199	3.41	18.0	0.5	1.8	<0.1	27	6.0	0.5	0.4	70	0.57	0.083
L3W 325S	Soil		1.8	16.0	43.2	314	0.2	11.0	8.1	423	5.15	31.4	0.2	1.7	0.4	9	1.0	0.5	0.2	128	0.09	0.057
L3W 350S	Soil		2.7	177.6	119.2	2739	1.3	20.2	16.5	2839	4.44	31.0	0.6	1.8	0.2	39	14.3	0.9	0.4	80	0.82	0.168
L3W 375S	Soil		2.0	15.8	30.4	173	0.5	13.1	5.3	199	3.43	6.5	0.5	1.6	0.2	16	1.0	0.2	0.2	149	0.18	0.043

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	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L2W 575S	Soil	6	28	0.73	90	0.034	<20	2.86	0.006	0.06	<0.1	0.05	4.8	0.1	<0.05	7	<0.5	<0.2
L2W 625S	Soil	14	29	0.69	116	0.020	<20	2.18	0.006	0.06	<0.1	0.08	4.5	<0.1	<0.05	6	0.7	<0.2
L2W 675S	Soil	6	23	0.40	78	0.019	<20	3.21	0.004	0.05	0.1	0.09	4.1	<0.1	<0.05	9	0.5	<0.2
L2W 725S	Soil	5	33	0.66	89	0.037	<20	2.85	0.005	0.04	<0.1	0.08	4.9	<0.1	<0.05	9	<0.5	<0.2
L2W 775S	Soil	6	20	0.34	60	0.027	<20	1.98	0.006	0.03	<0.1	0.07	1.9	<0.1	<0.05	7	<0.5	<0.2
L2W 825S	Soil	40	32	0.90	72	0.075	<20	2.04	0.009	0.04	0.2	0.04	1.8	<0.1	<0.05	8	<0.5	<0.2
L2W 875S	Soil	18	33	0.96	107	0.056	<20	2.81	0.007	0.06	<0.1	0.04	4.2	<0.1	<0.05	7	<0.5	<0.2
L2W 025N	Soil	6	29	0.66	119	0.023	<20	2.48	0.005	0.05	<0.1	0.05	3.2	<0.1	<0.05	7	<0.5	<0.2
L2W 075N	Soil	28	19	0.46	88	0.014	<20	2.17	0.007	0.05	<0.1	0.31	4.7	<0.1	0.07	5	1.7	<0.2
L2W 125N	Soil	23	24	0.60	116	0.021	<20	2.16	0.009	0.08	<0.1	0.24	7.3	<0.1	<0.05	5	1.5	<0.2
L2W 175N	Soil	33	24	0.42	201	0.018	<20	2.47	0.006	0.05	<0.1	0.36	7.8	<0.1	0.12	5	2.0	<0.2
L2W 225N	Soil	8	21	0.47	123	0.014	<20	2.52	0.005	0.08	<0.1	0.06	3.5	0.2	<0.05	9	<0.5	<0.2
L2W 275N	Soil	7	20	0.49	120	0.015	<20	2.04	0.004	0.05	<0.1	0.07	2.3	<0.1	<0.05	7	<0.5	<0.2
L2W 325N	Soil	24	24	0.57	145	0.025	<20	2.38	0.007	0.07	<0.1	0.15	5.5	<0.1	<0.05	6	1.1	<0.2
L3W 000S	Soil	7	20	0.35	82	0.023	<20	1.65	0.004	0.04	<0.1	0.06	2.3	<0.1	<0.05	9	<0.5	<0.2
L3W 025S	Soil	7	20	0.43	105	0.017	<20	2.18	0.003	0.05	<0.1	0.03	3.2	0.1	<0.05	8	<0.5	<0.2
L3W 050S	Soil	7	19	0.41	96	0.018	<20	2.22	0.003	0.05	<0.1	0.09	2.9	<0.1	<0.05	8	<0.5	<0.2
L3W 075S	Soil	6	19	0.52	82	0.029	<20	1.91	0.005	0.04	<0.1	0.02	3.0	<0.1	<0.05	7	<0.5	<0.2
L3W 100S	Soil	13	25	0.75	110	0.063	<20	2.92	0.007	0.05	0.1	0.09	5.5	<0.1	<0.05	8	<0.5	<0.2
L3W 125S	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L3W 150S	Soil	23	23	0.61	129	0.013	<20	2.31	0.007	0.07	<0.1	0.16	5.2	<0.1	0.08	4	0.8	<0.2
L3W 175S	Soil	15	43	0.78	181	0.008	<20	2.69	0.007	0.12	<0.1	0.29	9.0	<0.1	<0.05	6	1.6	<0.2
L3W 200S	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L3W 225S	Soil	6	26	0.43	52	0.020	<20	2.32	0.004	0.03	0.1	0.06	2.3	<0.1	<0.05	7	<0.5	<0.2
L3W 250S	Soil	6	18	0.40	74	0.018	<20	1.92	0.004	0.03	<0.1	0.03	2.0	<0.1	<0.05	9	<0.5	<0.2
L3W 275S	Soil	7	23	0.73	85	0.017	<20	2.44	0.006	0.05	<0.1	0.04	3.5	0.1	<0.05	7	<0.5	<0.2
L3W 300S	Soil	10	25	0.70	145	0.013	<20	2.63	0.006	0.05	<0.1	0.06	2.2	0.1	<0.05	7	<0.5	<0.2
L3W 325S	Soil	6	26	0.53	97	0.039	<20	2.06	0.005	0.03	<0.1	0.03	3.2	<0.1	<0.05	9	<0.5	<0.2
L3W 350S	Soil	15	34	0.81	148	0.015	<20	2.81	0.008	0.09	<0.1	0.09	4.3	<0.1	0.10	6	0.9	<0.2
L3W 375S	Soil	8	23	0.27	83	0.047	<20	0.98	0.006	0.03	0.1	0.02	1.1	<0.1	<0.05	8	<0.5	<0.2

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	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L3W 400S	Soil	1.7	43.2	33.3	961	0.5	10.4	7.7	684	3.47	22.4	0.2	1.5	0.1	27	3.6	0.4	0.2	86	0.52	0.041
L3W 425S	Soil	1.8	32.4	113.3	561	0.4	11.3	6.7	823	4.14	17.6	0.2	2.2	0.3	15	2.6	0.3	0.4	99	0.26	0.046
L3W 450S	Soil	1.5	58.5	144.1	1050	0.6	13.6	10.1	882	4.22	23.0	0.2	2.2	0.3	13	1.7	0.3	0.4	83	0.17	0.039
L3W 475S	Soil	3.7	36.6	49.6	510	0.7	8.4	4.1	252	3.70	16.2	0.4	90.3	0.9	11	0.8	0.3	0.3	59	0.07	0.064
L3W 500S	Soil	1.4	29.2	43.5	427	0.9	9.9	6.0	335	3.11	13.9	0.2	1.2	0.9	10	0.9	0.3	0.2	72	0.08	0.041
L3W 525S	Soil	4.2	36.3	45.5	419	0.3	10.6	7.0	438	4.26	20.6	0.3	5.0	0.5	15	1.0	0.3	0.2	90	0.14	0.065
L3W 550S	Soil	3.7	29.7	39.1	249	0.2	15.4	8.9	453	4.23	28.0	0.3	1.6	0.5	12	0.4	0.5	0.2	90	0.11	0.044
L3W 575S	Soil	1.5	22.4	29.5	199	0.4	10.3	7.7	476	3.47	19.2	0.2	1.4	0.4	14	0.7	0.3	0.2	88	0.13	0.061
L3W 600S	Soil	2.6	31.6	45.8	716	1.3	11.4	8.1	1584	3.58	15.4	0.3	0.6	0.3	14	2.3	0.2	0.3	69	0.13	0.083
L3W 625S	Soil	3.3	24.4	30.2	254	0.1	21.1	10.8	716	4.09	20.6	0.3	<0.5	1.1	14	0.4	0.4	0.2	105	0.18	0.188
L3W 650S	Soil	2.5	18.1	17.8	169	0.2	11.8	8.1	308	3.09	17.4	0.2	0.7	0.1	21	0.5	0.4	0.1	81	0.31	0.034
L3W 675S	Soil	4.9	25.1	31.0	203	0.1	13.5	10.4	542	4.06	27.5	0.2	0.7	0.2	19	0.5	0.4	0.1	94	0.22	0.033
L3W 700S	Soil	3.8	22.6	18.1	181	0.2	11.6	9.1	458	3.46	15.3	0.2	0.9	<0.1	28	0.4	0.2	0.1	94	0.42	0.039
L3W 025N	Soil	4.1	24.3	16.4	163	0.2	14.4	8.5	358	4.06	16.9	0.3	1.0	0.2	17	0.5	0.3	0.1	98	0.23	0.040
L3W 050N	Soil	1.4	18.4	72.9	881	0.8	9.7	10.7	710	4.16	21.9	0.2	1.7	0.6	9	1.5	0.2	0.6	64	0.09	0.028
L3W 075N	Soil	1.6	308.7	112.1	4669	2.5	38.5	20.5	2146	4.21	9.1	0.9	4.0	1.7	49	18.3	0.4	0.8	116	1.36	0.338
L3W 100N	Soil	1.5	11.9	27.0	308	0.4	6.2	7.1	1477	3.67	10.7	0.1	1.2	0.2	9	2.4	0.2	0.5	68	0.12	0.168
L3W 125N	Soil	0.9	12.2	12.1	426	0.3	9.5	6.2	466	3.18	10.4	0.2	1.8	0.1	10	1.3	0.2	0.2	60	0.13	0.065
L3W 150N	Soil	1.7	16.9	29.7	556	0.7	10.8	8.0	402	5.89	27.9	0.2	6.8	0.6	6	0.6	0.3	0.8	109	0.06	0.064
L3W 175N	Soil	1.2	24.7	43.4	1468	0.9	4.8	8.3	999	3.02	10.5	0.1	2.0	0.2	25	4.0	0.2	0.8	60	0.45	0.050
L3W 200N	Soil	2.3	34.0	70.0	2216	0.7	9.3	12.6	565	6.46	30.7	0.2	8.1	0.7	15	2.3	0.2	1.4	98	0.20	0.043
L3W 225N	Soil	1.3	74.4	77.3	3098	0.6	9.7	11.0	1462	3.88	20.2	0.2	0.9	0.2	22	8.3	0.4	1.3	62	0.38	0.057
L3W 250N	Soil	3.7	28.7	21.2	787	0.5	8.2	15.1	1049	7.54	36.1	0.1	1.6	0.6	11	1.8	0.2	3.8	72	0.17	0.108
L3W 275N	Soil	1.3	12.5	17.4	369	0.6	6.8	5.1	326	4.03	14.8	0.1	<0.5	0.3	8	1.1	0.2	0.3	70	0.09	0.050
L3W 300N	Soil	2.3	354.0	90.0	1245	6.0	18.1	13.2	3663	4.06	32.1	1.0	6.7	0.6	53	7.9	0.7	0.5	60	1.02	0.140
L3W 325N	Soil	1.7	50.0	65.0	1241	1.2	16.4	13.0	974	4.65	27.7	0.3	0.5	0.8	11	1.6	0.5	0.5	67	0.14	0.025
L3W 350N	Soil	1.4	24.7	49.8	558	0.9	8.2	11.4	1051	3.87	16.0	0.2	<0.5	0.7	29	2.7	0.2	0.3	72	0.39	0.048
L3W 375N	Soil	1.8	12.8	31.7	455	0.5	9.7	7.1	369	5.08	23.1	0.2	2.4	0.7	7	0.9	0.2	0.4	70	0.06	0.050
L3W 400N	Soil	1.4	12.6	36.6	340	0.5	8.3	7.1	502	4.33	18.1	0.2	4.7	0.4	9	0.7	0.3	0.4	54	0.10	0.059
L3W 425N	Soil	3.4	219.8	146.2	2476	6.3	24.3	13.8	6647	4.01	31.3	1.2	8.8	0.5	82	18.9	1.4	0.4	46	1.39	0.146

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Project: Grouse Mountain
Report Date: September 14, 2010

CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L3W 400S	Soil	8	22	0.47	114	0.018	<20	1.79	0.006	0.05	<0.1	0.05	2.5	<0.1	<0.05	7	<0.5	<0.2
L3W 425S	Soil	7	22	0.46	143	0.013	<20	2.26	0.005	0.05	<0.1	0.02	3.4	<0.1	0.05	9	<0.5	<0.2
L3W 450S	Soil	7	23	0.72	106	0.015	<20	2.51	0.005	0.05	<0.1	0.04	3.2	<0.1	<0.05	8	<0.5	<0.2
L3W 475S	Soil	8	17	0.29	78	0.029	<20	2.89	0.006	0.04	0.2	0.08	2.4	<0.1	<0.05	11	0.5	<0.2
L3W 500S	Soil	6	19	0.37	93	0.023	<20	1.96	0.005	0.03	<0.1	0.04	2.8	<0.1	<0.05	7	<0.5	<0.2
L3W 525S	Soil	6	21	0.49	89	0.018	<20	2.27	0.006	0.05	<0.1	0.04	3.0	<0.1	<0.05	8	<0.5	<0.2
L3W 550S	Soil	6	28	0.77	85	0.026	<20	2.71	0.005	0.06	<0.1	0.05	3.9	<0.1	<0.05	7	<0.5	<0.2
L3W 575S	Soil	6	22	0.46	109	0.020	<20	1.86	0.005	0.05	<0.1	0.03	3.0	<0.1	<0.05	7	<0.5	<0.2
L3W 600S	Soil	10	21	0.35	183	0.023	<20	2.20	0.006	0.07	0.1	0.06	2.6	0.1	<0.05	11	<0.5	<0.2
L3W 625S	Soil	8	26	0.63	113	0.038	<20	2.30	0.005	0.06	<0.1	0.04	3.0	<0.1	<0.05	8	<0.5	<0.2
L3W 650S	Soil	5	21	0.49	81	0.020	<20	1.48	0.005	0.04	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
L3W 675S	Soil	6	26	0.69	118	0.020	<20	2.08	0.006	0.05	<0.1	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2
L3W 700S	Soil	6	25	0.60	136	0.020	<20	2.03	0.007	0.05	<0.1	0.03	2.9	<0.1	<0.05	7	<0.5	<0.2
L3W 025N	Soil	5	26	0.54	133	0.024	<20	2.13	0.007	0.04	<0.1	0.04	2.9	<0.1	<0.05	8	<0.5	<0.2
L3W 050N	Soil	6	16	0.45	64	0.011	<20	1.93	0.003	0.04	<0.1	0.03	2.6	<0.1	<0.05	7	<0.5	<0.2
L3W 075N	Soil	48	33	1.11	104	0.063	<20	2.11	0.014	0.15	<0.1	0.13	4.8	<0.1	<0.05	6	0.8	<0.2
L3W 100N	Soil	6	15	0.23	208	0.012	<20	1.59	0.003	0.06	<0.1	0.05	1.8	0.1	<0.05	7	<0.5	<0.2
L3W 125N	Soil	6	17	0.32	113	0.013	<20	1.64	0.004	0.05	<0.1	0.04	1.7	<0.1	<0.05	6	<0.5	<0.2
L3W 150N	Soil	6	24	0.49	95	0.025	<20	2.24	0.004	0.04	<0.1	0.09	2.9	<0.1	<0.05	10	<0.5	<0.2
L3W 175N	Soil	8	13	0.22	90	0.012	<20	1.51	0.004	0.05	<0.1	0.05	2.2	<0.1	<0.05	7	<0.5	<0.2
L3W 200N	Soil	6	21	0.50	96	0.017	<20	2.68	0.005	0.04	<0.1	0.03	3.4	<0.1	<0.05	11	<0.5	<0.2
L3W 225N	Soil	9	19	0.47	97	0.015	<20	1.84	0.005	0.05	<0.1	0.04	2.5	<0.1	<0.05	7	<0.5	<0.2
L3W 250N	Soil	7	16	0.31	99	0.010	<20	2.23	0.003	0.05	0.2	0.05	3.1	<0.1	<0.05	9	<0.5	<0.2
L3W 275N	Soil	6	14	0.30	88	0.014	<20	1.81	0.005	0.03	<0.1	0.04	2.2	<0.1	<0.05	8	<0.5	<0.2
L3W 300N	Soil	55	26	0.50	144	0.014	<20	2.68	0.007	0.06	0.1	0.40	11.6	0.1	<0.05	7	1.3	<0.2
L3W 325N	Soil	12	24	0.72	100	0.022	<20	2.68	0.005	0.05	<0.1	0.09	5.0	<0.1	<0.05	7	<0.5	<0.2
L3W 350N	Soil	11	15	0.30	148	0.008	<20	2.14	0.006	0.07	<0.1	0.05	3.7	<0.1	<0.05	8	<0.5	<0.2
L3W 375N	Soil	7	18	0.47	100	0.013	<20	2.32	0.003	0.04	<0.1	0.04	3.1	<0.1	<0.05	8	<0.5	<0.2
L3W 400N	Soil	7	15	0.46	63	0.008	<20	2.07	0.003	0.04	<0.1	0.04	2.4	<0.1	<0.05	7	<0.5	<0.2
L3W 425N	Soil	57	25	0.55	217	0.010	<20	2.86	0.007	0.06	<0.1	0.47	11.0	0.2	0.05	5	2.1	<0.2

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Project: Grouse Mountain
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CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L3W 450N	Soil	1.6	13.6	34.0	347	0.4	8.1	7.8	580	4.89	17.0	0.2	1.0	0.4	11	0.9	0.3	0.4	83	0.12	0.045
L3W 475N	Soil	1.6	17.8	32.0	469	0.5	10.6	18.9	1962	5.89	9.8	0.1	0.7	0.4	27	1.5	0.2	0.3	106	0.39	0.061
L3W 500N	Soil	1.4	13.1	32.1	438	0.7	7.4	7.1	474	4.48	10.2	0.2	<0.5	0.4	20	1.7	0.3	0.3	71	0.26	0.058
L4W 025S	Soil	1.1	12.4	92.1	500	0.6	6.2	7.0	2394	3.75	8.5	0.1	<0.5	0.3	23	2.2	0.2	0.2	58	0.30	0.056
L4W 075S	Soil	2.9	27.3	41.2	335	1.4	12.7	12.4	519	5.58	19.9	0.5	12.9	0.7	17	2.0	0.4	0.6	104	0.17	0.058
L4W 125S	Soil	4.9	28.9	42.2	381	0.2	11.1	6.3	375	3.97	18.6	0.3	3.6	0.9	11	0.5	0.2	0.5	73	0.06	0.079
L4W 175S	Soil	11.6	228.6	183.0	2462	2.0	21.6	10.0	833	3.86	25.4	4.8	3.3	0.4	57	6.5	0.3	0.8	78	0.76	0.104
L4W 225S	Soil	2.6	25.0	41.4	404	0.3	15.5	7.9	369	5.10	19.7	0.4	0.6	1.1	11	1.0	0.3	0.4	110	0.09	0.126
L4W 275S	Soil	2.4	24.5	66.5	504	0.5	14.0	8.7	557	4.69	20.8	0.3	0.5	0.4	15	1.2	0.3	0.4	111	0.15	0.100
L4W 325S	Soil	1.9	33.8	95.9	839	0.6	16.2	11.5	552	4.94	23.7	0.3	2.7	0.5	24	1.6	0.3	0.4	104	0.22	0.057
L4W 375S	Soil	6.0	34.6	282.1	713	1.1	16.2	12.0	533	5.29	40.5	0.4	0.9	0.3	24	1.4	0.5	0.2	116	0.33	0.058
L4W 425S	Soil	5.2	30.0	73.4	794	0.7	12.2	8.0	344	5.26	36.3	0.3	13.4	0.5	14	1.7	0.2	0.5	107	0.16	0.045
L4W 475S	Soil	3.7	28.7	43.4	287	0.1	22.9	11.8	415	4.82	27.9	0.4	0.5	0.7	18	0.4	0.4	0.2	116	0.24	0.171
L4W 525S	Soil	4.9	122.3	122.3	1321	1.1	28.1	15.4	566	4.78	34.0	0.6	2.1	2.0	19	2.3	0.6	0.3	128	0.26	0.155
L4W 575S	Soil	3.3	51.7	37.3	328	0.5	20.8	13.9	1327	4.11	22.6	0.5	1.2	0.3	28	1.1	0.3	0.2	92	0.38	0.055
L4W 625S	Soil	1.6	17.5	15.6	149	0.3	14.5	8.0	309	4.94	17.3	0.3	0.7	0.6	14	0.6	0.4	0.1	110	0.12	0.098
L4W 675S	Soil	1.4	21.4	39.0	282	0.2	17.4	12.3	430	4.93	23.0	0.3	0.9	0.6	18	0.6	0.3	0.2	123	0.23	0.033
L4W 725S	Soil	1.5	34.4	33.3	228	0.2	20.0	10.8	489	4.77	23.7	0.3	0.7	0.6	14	0.3	0.4	0.2	97	0.14	0.048
L4W 025N	Soil	1.5	24.0	21.2	270	0.1	17.3	10.2	493	4.61	25.7	0.3	15.1	0.4	20	0.5	0.3	0.1	96	0.24	0.040
L4W 075N	Soil	1.8	53.6	41.1	961	1.1	11.7	9.4	1092	4.33	28.6	0.3	0.5	0.1	34	1.8	0.3	0.5	67	0.48	0.043
L4W 125N	Soil	1.4	21.1	32.5	1872	0.7	12.3	10.7	516	4.12	24.4	0.2	0.8	0.8	22	1.9	0.3	0.7	91	0.30	0.024
L4W 175N	Soil	2.0	68.7	23.0	1229	0.3	39.9	21.0	589	5.30	11.1	0.8	1.1	2.9	36	1.0	0.4	0.3	182	0.85	0.249
L4W 225N	Soil	2.3	36.4	44.2	1085	0.9	16.6	12.8	1705	4.99	25.4	0.3	0.6	0.3	19	4.1	0.4	0.6	92	0.22	0.064
L4W 275N	Soil	2.1	73.1	23.6	465	0.2	49.6	20.5	496	5.44	9.2	1.1	<0.5	4.2	36	0.8	0.3	0.3	207	1.02	0.486
L4W 325N	Soil	2.0	22.0	39.2	348	0.6	9.9	6.2	324	4.76	31.9	0.2	<0.5	0.1	10	1.4	0.3	0.5	92	0.07	0.080
L4W 375N	Soil	1.9	22.2	35.9	683	0.5	11.3	7.2	391	4.79	19.3	0.2	<0.5	0.3	16	1.1	0.3	0.5	85	0.20	0.038
L4W 425N	Soil	1.1	10.1	20.7	171	0.4	5.3	8.2	629	2.96	8.6	0.1	0.7	0.1	12	0.8	0.2	0.3	68	0.20	0.055
L4W 475N	Soil	1.7	51.1	45.0	524	0.5	11.3	15.8	1285	5.22	27.3	0.1	0.7	0.8	26	1.1	0.2	0.4	94	0.30	0.039
L4W 525N	Soil	1.3	19.5	33.6	275	0.4	9.8	5.6	295	4.13	19.1	0.2	0.5	0.9	12	0.8	0.3	0.3	71	0.11	0.031
L4W 575N	Soil	1.1	11.9	29.3	407	0.3	8.1	7.0	575	3.70	13.2	0.2	1.4	0.8	10	0.8	0.2	0.3	72	0.08	0.025

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Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L3W 450N	Soil	6	16	0.44	107	0.020	<20	1.90	0.004	0.03	<0.1	0.03	2.5	<0.1	<0.05	9	<0.5	<0.2
L3W 475N	Soil	8	21	0.38	109	0.032	<20	1.90	0.004	0.06	<0.1	0.04	4.9	<0.1	<0.05	9	<0.5	<0.2
L3W 500N	Soil	7	14	0.29	68	0.018	<20	1.53	0.003	0.04	<0.1	0.04	1.9	<0.1	<0.05	8	<0.5	0.2
L4W 025S	Soil	9	13	0.18	63	0.012	<20	1.45	0.002	0.04	<0.1	0.03	1.8	0.1	<0.05	8	<0.5	<0.2
L4W 075S	Soil	10	24	0.37	94	0.057	<20	1.91	0.006	0.03	0.2	0.05	2.0	<0.1	<0.05	10	<0.5	0.2
L4W 125S	Soil	8	19	0.47	85	0.021	<20	2.35	0.004	0.04	0.1	0.06	2.9	<0.1	<0.05	10	<0.5	<0.2
L4W 175S	Soil	46	30	0.62	166	0.011	<20	3.98	0.006	0.07	0.1	0.15	4.7	0.1	<0.05	8	0.5	0.2
L4W 225S	Soil	8	25	0.53	81	0.035	<20	2.53	0.004	0.04	0.1	0.06	3.5	<0.1	<0.05	10	<0.5	<0.2
L4W 275S	Soil	8	25	0.55	103	0.032	<20	1.94	0.005	0.06	<0.1	0.04	3.0	<0.1	<0.05	8	<0.5	<0.2
L4W 325S	Soil	8	26	0.68	146	0.024	<20	2.71	0.005	0.05	<0.1	0.04	4.0	<0.1	<0.05	9	<0.5	<0.2
L4W 375S	Soil	7	33	0.73	125	0.032	<20	2.56	0.006	0.05	<0.1	0.05	4.1	<0.1	<0.05	9	<0.5	0.2
L4W 425S	Soil	6	26	0.55	116	0.017	<20	2.61	0.005	0.03	<0.1	0.05	3.5	<0.1	<0.05	9	<0.5	<0.2
L4W 475S	Soil	10	30	0.61	103	0.039	<20	2.32	0.006	0.05	0.1	0.04	3.2	<0.1	<0.05	8	<0.5	<0.2
L4W 525S	Soil	16	34	0.85	113	0.066	<20	2.86	0.007	0.05	<0.1	0.06	4.4	<0.1	<0.05	8	<0.5	<0.2
L4W 575S	Soil	11	36	0.80	166	0.017	<20	2.84	0.008	0.07	<0.1	0.04	4.8	<0.1	<0.05	8	<0.5	<0.2
L4W 625S	Soil	5	30	0.51	113	0.042	<20	2.47	0.005	0.05	<0.1	0.07	3.8	<0.1	<0.05	9	<0.5	0.2
L4W 675S	Soil	6	32	0.71	127	0.040	<20	2.29	0.005	0.04	<0.1	0.03	4.7	<0.1	<0.05	9	<0.5	<0.2
L4W 725S	Soil	5	33	0.81	103	0.032	<20	2.75	0.005	0.05	<0.1	0.04	4.8	<0.1	<0.05	8	<0.5	<0.2
L4W 025N	Soil	5	30	0.68	113	0.027	<20	2.39	0.006	0.04	<0.1	0.04	4.0	<0.1	<0.05	8	<0.5	<0.2
L4W 075N	Soil	8	19	0.55	114	0.013	<20	2.01	0.005	0.05	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2
L4W 125N	Soil	7	24	0.65	87	0.027	<20	2.07	0.005	0.03	<0.1	0.03	3.5	<0.1	<0.05	8	<0.5	0.3
L4W 175N	Soil	29	35	1.07	75	0.101	<20	1.87	0.011	0.06	0.2	0.02	2.7	<0.1	<0.05	9	<0.5	<0.2
L4W 225N	Soil	7	24	0.61	153	0.029	<20	2.21	0.006	0.07	<0.1	0.03	2.8	<0.1	<0.05	8	<0.5	<0.2
L4W 275N	Soil	56	43	1.18	92	0.103	<20	1.73	0.013	0.08	0.2	0.01	1.8	<0.1	<0.05	9	<0.5	<0.2
L4W 325N	Soil	8	20	0.32	126	0.020	<20	1.99	0.006	0.05	0.1	0.07	2.0	<0.1	<0.05	10	<0.5	<0.2
L4W 375N	Soil	6	20	0.54	101	0.021	<20	2.06	0.005	0.04	<0.1	0.03	2.7	<0.1	<0.05	9	<0.5	<0.2
L4W 425N	Soil	8	13	0.18	133	0.012	<20	1.52	0.004	0.04	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
L4W 475N	Soil	8	19	0.61	108	0.012	<20	2.50	0.004	0.04	<0.1	0.05	4.7	0.2	<0.05	11	<0.5	<0.2
L4W 525N	Soil	7	19	0.38	115	0.019	<20	2.04	0.004	0.04	<0.1	0.03	3.1	<0.1	<0.05	8	<0.5	<0.2
L4W 575N	Soil	9	15	0.42	98	0.018	<20	1.82	0.004	0.04	<0.1	0.02	3.0	<0.1	<0.05	8	<0.5	<0.2

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Project: Grouse Mountain
Report Date: September 14, 2010

CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L5W 050S	Soil	0.8	320.8	119.9	2947	4.9	13.8	11.7	2335	3.97	24.0	0.8	9.7	0.5	35	9.1	1.1	0.3	47	0.73	0.120
L5W 075S	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L5W 100S	Soil	2.1	61.2	34.8	652	0.6	10.5	9.1	629	4.79	27.1	0.3	0.8	0.6	17	1.5	0.3	0.6	84	0.15	0.092
L5W 125S	Soil	3.4	75.0	217.5	2548	1.4	19.9	17.9	4498	4.76	51.3	0.7	36.5	1.0	18	11.6	0.4	1.9	102	0.17	0.085
L5W 150S	Soil	3.8	58.3	65.3	747	0.3	31.6	13.5	396	5.27	15.4	0.7	0.5	2.1	23	0.7	0.3	0.5	138	0.38	0.200
L5W 175S	Soil	6.1	73.5	42.9	341	0.3	37.3	14.4	246	4.71	9.2	1.0	<0.5	3.4	47	0.3	0.2	0.2	162	0.89	0.401
L5W 200S	Soil	4.7	26.1	43.1	423	0.3	19.7	15.7	708	4.83	10.9	0.5	<0.5	1.4	22	0.7	0.3	0.3	133	0.29	0.198
L5W 225S	Soil	7.5	65.5	151.5	903	0.5	20.3	15.1	2164	5.15	29.8	0.4	1.3	0.3	33	3.1	0.4	0.5	101	0.32	0.106
L5W 250S	Soil	4.9	38.0	65.1	763	0.6	16.9	10.7	728	4.62	22.5	0.3	1.0	0.6	13	1.8	0.5	0.5	92	0.15	0.091
L5W 275S	Soil	5.6	23.8	43.6	467	0.4	14.1	9.1	420	4.54	23.8	0.2	0.5	0.6	16	1.1	0.4	0.2	91	0.16	0.042
L5W 300S	Soil	1.7	73.5	791.3	1859	0.9	17.5	11.5	915	3.76	39.5	0.4	0.9	0.4	24	4.9	0.5	0.2	73	0.46	0.053
L5W 325S	Soil	2.5	25.2	63.8	397	0.4	12.7	8.9	485	4.45	31.7	0.2	0.5	0.4	16	0.8	0.3	0.2	99	0.22	0.044
L5W 350S	Soil	1.9	19.2	48.3	399	0.5	14.8	9.3	395	5.18	31.4	0.3	0.6	0.6	14	0.8	0.4	0.2	99	0.15	0.050
L5W 375S	Soil	1.8	212.9	79.9	1937	1.3	26.1	17.2	1670	4.82	36.8	0.7	1.5	0.4	28	8.9	0.7	0.2	95	0.60	0.072
L5W 400S	Soil	2.7	17.8	61.8	204	0.2	10.6	7.1	368	3.54	19.1	0.4	1.6	0.1	16	0.8	0.3	0.2	105	0.14	0.042
L5W 050N	Soil	1.3	146.1	39.6	1926	0.8	19.4	15.4	1766	4.24	28.1	0.4	0.9	0.5	31	9.4	0.7	0.5	67	0.49	0.055
L5W 075N	Soil	2.4	19.5	28.3	659	0.3	10.1	7.8	499	3.39	17.5	0.3	0.7	0.5	23	1.3	0.2	0.4	65	0.32	0.027
L5W 100N	Soil	2.8	27.9	61.6	969	2.1	13.2	12.6	861	5.94	34.6	0.2	1.3	0.5	15	1.6	0.3	1.0	100	0.14	0.079
L5W 125N	Soil	2.6	20.1	53.6	965	0.7	11.1	11.0	1225	5.99	34.0	0.3	0.8	0.3	17	2.9	0.3	1.0	89	0.33	0.071
L5W 150N	Soil	1.9	30.2	63.9	1309	0.8	15.3	11.1	1014	5.26	40.1	0.3	0.6	0.6	13	2.1	0.4	1.1	81	0.11	0.044
L5W 175N	Soil	1.6	26.6	58.8	954	0.4	13.7	10.8	1305	4.46	17.4	0.3	0.6	0.4	24	4.1	0.4	1.0	76	0.23	0.083
L5W 200N	Soil	1.8	36.1	67.5	914	0.5	15.9	11.9	1762	4.45	36.5	0.3	0.7	0.1	19	5.0	0.5	0.6	62	0.14	0.055
L5W 225N	Soil	1.6	24.8	46.0	875	0.7	11.0	10.2	1141	4.47	21.5	0.2	0.8	0.2	24	2.9	0.4	0.9	66	0.21	0.068
L5W 250N	Soil	1.9	29.6	51.2	597	0.5	11.7	11.5	871	5.57	33.1	0.3	1.2	0.9	11	0.8	0.4	0.9	67	0.09	0.273
L5W 275N	Soil	1.9	15.8	36.3	479	0.9	7.5	6.8	561	4.95	20.3	0.2	0.6	0.4	8	1.2	0.2	0.6	74	0.07	0.080
L5W 300N	Soil	2.0	23.7	42.6	510	0.5	7.6	10.4	562	4.76	21.2	0.3	<0.5	0.6	9	1.5	0.2	0.6	67	0.09	0.075
L5W 325N	Soil	2.0	21.4	35.7	530	1.7	11.5	7.9	502	5.16	20.4	0.3	<0.5	0.3	22	1.4	0.4	0.5	71	0.33	0.056
L5W 350N	Soil	1.6	20.9	35.1	388	0.7	9.0	9.6	827	5.25	22.3	0.2	<0.5	0.3	13	1.3	0.4	0.5	84	0.14	0.072
L5W 375N	Soil	1.5	22.7	32.0	459	0.5	12.0	9.6	591	4.54	23.8	0.2	<0.5	0.7	11	0.9	0.3	0.4	75	0.09	0.042
L5W 400N	Soil	1.3	24.3	27.3	441	0.3	11.3	10.5	633	4.57	17.3	0.3	0.6	0.8	8	1.0	0.5	0.2	74	0.09	0.029

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Project: Grouse Mountain
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CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L5W 050S	Soil	32	23	0.74	82	0.012	<20	2.16	0.006	0.06	<0.1	0.43	9.7	<0.1	<0.05	5	1.1	<0.2
L5W 075S	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L5W 100S	Soil	7	19	0.50	111	0.025	<20	2.12	0.005	0.05	<0.1	0.03	2.8	<0.1	<0.05	9	<0.5	<0.2
L5W 125S	Soil	33	27	0.54	114	0.053	<20	3.39	0.006	0.06	0.1	0.20	4.9	<0.1	<0.05	9	<0.5	<0.2
L5W 150S	Soil	21	28	0.78	87	0.079	<20	2.16	0.005	0.06	0.1	0.02	3.0	<0.1	<0.05	8	<0.5	<0.2
L5W 175S	Soil	44	27	0.97	67	0.112	<20	1.53	0.010	0.06	0.3	0.02	1.8	<0.1	<0.05	8	<0.5	<0.2
L5W 200S	Soil	13	25	0.50	69	0.069	<20	1.60	0.005	0.05	0.2	0.03	2.5	<0.1	<0.05	8	<0.5	<0.2
L5W 225S	Soil	18	21	0.75	195	0.052	<20	2.22	0.004	0.11	<0.1	0.04	3.2	0.1	<0.05	9	<0.5	<0.2
L5W 250S	Soil	8	24	0.60	106	0.037	<20	1.91	0.004	0.06	<0.1	0.04	3.5	<0.1	<0.05	7	<0.5	<0.2
L5W 275S	Soil	7	23	0.59	86	0.033	<20	1.77	0.003	0.05	<0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
L5W 300S	Soil	15	27	0.74	107	0.022	<20	2.15	0.004	0.06	<0.1	0.04	5.9	0.1	<0.05	6	<0.5	<0.2
L5W 325S	Soil	6	25	0.56	95	0.018	<20	2.12	0.003	0.05	<0.1	0.04	3.9	<0.1	<0.05	7	<0.5	<0.2
L5W 350S	Soil	6	29	0.65	105	0.024	<20	2.41	0.004	0.04	<0.1	0.04	4.2	<0.1	<0.05	7	<0.5	<0.2
L5W 375S	Soil	21	36	1.04	184	0.034	<20	2.59	0.007	0.12	<0.1	0.07	10.0	0.1	<0.05	8	0.7	<0.2
L5W 400S	Soil	9	21	0.35	86	0.029	<20	1.49	0.004	0.04	<0.1	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
L5W 050N	Soil	17	25	0.79	123	0.017	<20	2.22	0.005	0.09	<0.1	0.04	6.6	0.1	<0.05	6	0.7	<0.2
L5W 075N	Soil	8	17	0.45	88	0.018	<20	1.66	0.004	0.04	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
L5W 100N	Soil	7	23	0.57	129	0.030	<20	2.39	0.005	0.06	0.1	0.07	3.5	0.1	<0.05	8	<0.5	<0.2
L5W 125N	Soil	6	22	0.45	124	0.028	<20	2.14	0.004	0.06	0.1	0.06	2.7	0.1	<0.05	8	<0.5	<0.2
L5W 150N	Soil	8	24	0.58	126	0.026	<20	2.23	0.003	0.07	<0.1	0.04	3.7	<0.1	<0.05	7	<0.5	<0.2
L5W 175N	Soil	8	21	0.52	185	0.021	<20	2.12	0.005	0.10	<0.1	0.04	3.5	0.1	<0.05	8	0.5	<0.2
L5W 200N	Soil	9	24	0.58	178	0.013	<20	2.10	0.005	0.08	0.1	0.04	2.5	0.1	<0.05	6	<0.5	<0.2
L5W 225N	Soil	6	19	0.46	122	0.018	<20	2.16	0.003	0.06	<0.1	0.06	2.2	0.1	<0.05	6	<0.5	<0.2
L5W 250N	Soil	6	20	0.52	94	0.017	<20	2.46	0.003	0.06	<0.1	0.05	3.4	0.1	<0.05	7	<0.5	<0.2
L5W 275N	Soil	6	16	0.32	98	0.014	<20	1.92	0.003	0.05	<0.1	0.08	2.7	0.1	<0.05	8	<0.5	<0.2
L5W 300N	Soil	7	16	0.32	104	0.012	<20	2.03	0.003	0.05	<0.1	0.06	3.1	<0.1	<0.05	7	<0.5	<0.2
L5W 325N	Soil	7	20	0.52	70	0.028	<20	2.05	0.004	0.04	0.1	0.07	2.8	<0.1	<0.05	8	0.5	<0.2
L5W 350N	Soil	6	18	0.39	82	0.026	<20	1.79	0.004	0.04	0.1	0.05	2.6	<0.1	<0.05	7	<0.5	<0.2
L5W 375N	Soil	7	19	0.51	92	0.019	<20	1.99	0.004	0.05	<0.1	0.03	3.4	<0.1	<0.05	7	<0.5	<0.2
L5W 400N	Soil	6	17	0.59	90	0.020	<20	2.05	0.002	0.04	<0.1	0.04	3.5	<0.1	<0.05	6	<0.5	<0.2

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	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L5W 425N	Soil	1.5	28.4	44.6	820	1.1	14.6	13.7	1011	4.79	21.7	0.2	1.0	0.7	17	1.6	0.5	0.3	78	0.21	0.031
L5W 450N	Soil	1.1	25.1	83.0	611	0.3	10.6	9.3	827	4.84	23.0	0.2	<0.5	0.7	10	1.1	0.4	0.4	77	0.11	0.040
L5W 475N	Soil	0.8	19.4	26.2	670	0.3	16.0	10.3	641	3.45	12.7	0.3	<0.5	0.8	16	1.0	0.3	0.3	68	0.25	0.017
L5W 500N	Soil	0.9	23.6	29.2	543	0.3	11.0	8.4	688	4.80	20.6	0.2	<0.5	0.7	8	0.7	0.3	0.3	64	0.08	0.039
L5W 525N	Soil	1.1	493.5	117.6	3439	2.9	14.1	18.1	4731	4.58	25.3	0.8	5.3	0.5	61	16.3	1.3	0.6	54	1.29	0.166
L5W 550N	Soil	1.3	11.7	22.9	375	0.4	8.9	7.0	421	4.67	15.8	0.2	<0.5	0.5	11	0.9	0.3	0.3	74	0.13	0.071
L5W 575N	Soil	1.5	13.9	28.5	367	0.5	8.5	7.3	423	4.30	18.2	0.2	<0.5	0.5	11	0.7	0.3	0.3	66	0.14	0.041
L5W 600N	Soil	1.1	10.0	20.0	269	<0.1	6.9	7.1	1019	2.84	7.5	0.2	<0.5	0.7	16	1.6	0.2	0.2	55	0.29	0.028
L5W 625N	Soil	0.5	26.2	23.1	377	0.2	14.0	8.5	692	3.44	10.3	0.3	<0.5	0.7	18	0.4	0.2	0.2	59	0.33	0.026
L5W 650N	Soil	1.0	17.0	19.8	309	0.2	11.3	6.8	400	3.76	15.2	0.2	<0.5	0.6	12	0.4	0.3	0.2	60	0.16	0.030
L6W 025N	Soil	1.7	22.4	20.9	216	0.2	16.5	7.4	412	3.59	10.5	0.6	<0.5	0.5	11	0.8	0.4	0.4	112	0.14	0.121
L6W 075N	Soil	2.2	28.9	34.8	622	1.8	12.5	11.5	558	4.61	32.9	0.3	0.9	1.4	12	1.9	0.4	0.5	86	0.11	0.041
L6W 125N	Soil	2.4	46.4	48.3	625	0.5	15.2	11.4	837	4.43	59.7	0.3	4.5	0.5	23	1.8	0.8	0.7	79	0.26	0.039
L6W 175N	Soil	4.8	39.0	39.2	753	0.5	15.4	11.1	1211	4.47	28.3	0.4	1.9	0.3	32	3.6	0.4	0.7	96	0.30	0.050
L6W 225N	Soil	1.6	24.7	33.5	635	0.5	11.1	8.1	561	4.20	26.6	0.2	7.6	0.4	13	1.0	0.4	0.7	66	0.13	0.047
L6W 275N	Soil	1.3	34.4	42.9	996	0.8	12.1	9.4	1080	4.06	22.0	0.3	1.3	0.3	18	2.7	0.3	0.7	61	0.20	0.071
L6W 325N	Soil	1.6	21.6	25.5	212	0.7	4.6	5.1	331	2.73	14.5	0.2	<0.5	0.1	21	2.0	0.4	0.6	72	0.27	0.046
L6W 375N	Soil	1.2	24.5	20.0	402	0.4	13.9	9.2	517	3.59	16.5	0.2	6.0	0.7	28	0.8	0.5	0.3	64	0.16	0.034
L6W 425N	Soil	1.7	38.5	35.0	493	0.4	14.2	9.9	572	4.40	21.7	0.2	1.3	0.8	18	0.7	0.3	0.4	66	0.13	0.053
L6W 475N	Soil	0.8	18.9	32.9	539	0.5	11.8	8.7	742	4.08	23.4	0.2	<0.5	0.5	12	1.0	0.6	0.4	57	0.15	0.031
L6W 525N	Soil	0.9	15.5	22.5	313	0.3	9.0	6.6	445	3.80	16.2	0.2	0.5	0.5	10	0.7	0.3	0.2	56	0.09	0.056
L6W 575N	Soil	1.0	16.5	27.4	309	0.2	9.7	8.6	677	3.55	15.8	0.2	0.8	0.8	11	0.6	0.3	0.3	56	0.08	0.062
L6W 025S	Soil	1.6	77.0	42.2	732	0.5	10.4	8.1	876	3.17	20.0	0.3	2.1	0.3	28	3.0	0.3	0.6	60	0.39	0.047
L6W 075S	Soil	2.3	24.2	13.9	76	0.2	25.0	5.8	149	4.19	1.7	0.5	<0.5	0.5	17	1.1	0.1	0.1	208	0.15	0.047
L6W 125S	Soil	1.1	15.6	29.5	222	0.3	10.5	5.1	311	2.17	2.3	0.5	0.6	1.5	14	1.0	0.1	0.4	71	0.25	0.207
L6W 175S	Soil	2.8	50.0	63.9	529	0.4	23.5	10.9	424	5.33	26.0	0.6	1.2	2.1	22	0.9	0.5	0.3	118	0.38	0.309
L6W 225S	Soil	2.5	55.0	101.5	876	0.8	15.3	14.0	1100	4.26	28.3	0.4	0.8	0.7	20	1.7	0.5	0.5	81	0.20	0.046
L6W 275S	Soil	2.5	47.3	59.4	679	0.7	14.1	12.9	1015	3.77	20.2	0.3	<0.5	0.4	30	2.8	0.4	0.3	84	0.33	0.039
L6W 325S	Soil	1.4	28.5	40.7	370	1.6	16.7	11.3	527	4.71	32.5	0.2	3.6	0.4	18	1.1	0.7	0.2	98	0.20	0.062
L6W 375S	Soil	3.7	22.1	37.2	450	0.4	15.3	10.9	530	4.07	36.3	0.3	<0.5	0.4	18	1.5	0.6	0.2	86	0.14	0.045

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Project: Grouse Mountain
Report Date: September 14, 2010

CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L5W 425N	Soil	7	20	0.61	106	0.028	<20	2.19	0.003	0.04	<0.1	0.04	3.5	<0.1	<0.05	7	<0.5	<0.2
L5W 450N	Soil	6	18	0.49	106	0.018	<20	2.17	0.003	0.04	<0.1	0.04	3.3	0.1	<0.05	7	<0.5	<0.2
L5W 475N	Soil	8	24	0.57	109	0.043	<20	1.76	0.005	0.04	<0.1	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
L5W 500N	Soil	6	17	0.54	103	0.013	<20	2.03	0.003	0.04	<0.1	0.03	3.4	0.1	<0.05	7	<0.5	<0.2
L5W 525N	Soil	30	20	0.52	149	0.018	<20	2.29	0.005	0.06	<0.1	0.28	7.0	<0.1	0.09	5	1.7	<0.2
L5W 550N	Soil	6	17	0.40	147	0.017	<20	1.93	0.003	0.13	<0.1	0.04	2.4	<0.1	<0.05	7	<0.5	0.2
L5W 575N	Soil	6	15	0.45	116	0.014	<20	1.86	0.003	0.04	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
L5W 600N	Soil	8	14	0.28	185	0.011	<20	1.29	0.003	0.05	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
L5W 625N	Soil	10	20	0.68	207	0.019	<20	2.22	0.005	0.05	<0.1	0.03	4.2	<0.1	<0.05	6	<0.5	<0.2
L5W 650N	Soil	6	17	0.58	125	0.013	<20	2.01	0.004	0.05	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
L6W 025N	Soil	9	22	0.46	90	0.054	<20	1.32	0.008	0.04	0.2	0.02	1.8	<0.1	<0.05	8	<0.5	<0.2
L6W 075N	Soil	8	22	0.46	76	0.040	<20	1.99	0.007	0.06	<0.1	0.07	3.4	<0.1	<0.05	8	<0.5	<0.2
L6W 125N	Soil	8	22	0.67	86	0.028	<20	1.94	0.008	0.05	0.1	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
L6W 175N	Soil	11	21	0.46	182	0.021	<20	1.76	0.008	0.06	0.1	0.04	3.1	<0.1	<0.05	9	<0.5	<0.2
L6W 225N	Soil	6	19	0.57	94	0.012	<20	1.94	0.005	0.05	<0.1	0.03	3.3	<0.1	<0.05	7	<0.5	<0.2
L6W 275N	Soil	9	20	0.56	152	0.008	<20	2.26	0.007	0.07	0.1	0.05	3.4	0.1	<0.05	7	<0.5	<0.2
L6W 325N	Soil	12	11	0.11	154	0.013	<20	1.10	0.005	0.06	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
L6W 375N	Soil	6	18	0.62	90	0.027	<20	2.00	0.007	0.03	<0.1	0.03	3.5	<0.1	<0.05	6	<0.5	<0.2
L6W 425N	Soil	6	18	0.60	121	0.015	<20	2.56	0.006	0.05	<0.1	0.07	3.6	<0.1	<0.05	7	<0.5	0.5
L6W 475N	Soil	7	17	0.63	85	0.013	<20	1.91	0.007	0.05	<0.1	<0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
L6W 525N	Soil	6	15	0.49	75	0.012	<20	1.82	0.006	0.05	<0.1	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
L6W 575N	Soil	5	16	0.41	122	0.015	<20	2.03	0.006	0.05	<0.1	0.04	3.1	0.1	<0.05	6	<0.5	<0.2
L6W 025S	Soil	16	18	0.42	184	0.009	<20	1.77	0.006	0.07	<0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
L6W 075S	Soil	11	38	0.25	57	0.119	<20	0.44	0.009	0.03	<0.1	0.03	1.2	<0.1	<0.05	8	<0.5	<0.2
L6W 125S	Soil	13	15	0.31	107	0.110	<20	1.05	0.011	0.04	<0.1	0.03	1.5	<0.1	<0.05	9	<0.5	<0.2
L6W 175S	Soil	22	28	0.76	81	0.052	<20	2.82	0.010	0.05	0.2	0.06	3.8	<0.1	<0.05	9	<0.5	<0.2
L6W 225S	Soil	11	23	0.60	105	0.033	<20	2.25	0.008	0.05	0.1	0.05	3.9	0.1	<0.05	7	<0.5	<0.2
L6W 275S	Soil	15	25	0.62	118	0.016	<20	2.03	0.007	0.05	<0.1	0.03	4.4	<0.1	<0.05	7	<0.5	<0.2
L6W 325S	Soil	5	27	0.70	128	0.033	<20	2.18	0.006	0.04	0.1	0.04	3.9	<0.1	<0.05	8	<0.5	<0.2
L6W 375S	Soil	6	24	0.67	60	0.034	<20	1.81	0.006	0.05	0.1	0.02	3.2	<0.1	<0.05	7	<0.5	<0.2

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Project: Grouse Mountain
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CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L6W 425S	Soil	3.4	51.3	39.2	362	0.2	37.1	18.1	607	4.95	18.0	0.8	<0.5	2.5	31	0.9	0.4	0.2	164	0.61	0.370
L6W 475S	Soil	2.1	32.9	66.2	342	0.3	21.2	11.9	465	4.48	46.1	0.3	<0.5	0.7	14	0.6	0.9	0.2	90	0.14	0.056
L7W 025S	Soil	1.8	43.1	98.6	728	0.8	10.5	9.3	1144	4.19	20.7	0.3	1.6	0.3	14	2.6	0.3	0.6	77	0.17	0.064
L7W 050S	Soil	1.3	28.0	59.2	587	0.8	11.2	6.6	401	4.36	22.1	0.2	2.8	0.5	12	1.5	0.4	0.5	82	0.11	0.047
L7W 075S	Soil	1.7	14.7	32.2	291	0.4	8.9	5.9	272	3.72	16.1	0.1	<0.5	0.4	14	1.1	0.5	0.4	88	0.16	0.028
L7W 100S	Soil	1.2	80.6	107.0	1242	1.5	17.5	14.1	1288	3.81	19.8	0.5	1.5	0.6	31	3.9	0.5	0.4	69	0.46	0.032
L7W 125S	Soil	1.2	54.3	45.2	729	0.5	18.5	9.9	519	4.84	28.0	0.3	1.2	1.0	11	0.8	0.6	0.2	80	0.09	0.070
L7W 150S	Soil	1.0	15.0	33.6	305	0.4	8.6	8.1	664	3.42	11.8	0.2	4.8	0.6	13	0.9	0.3	0.2	71	0.11	0.035
L7W 175S	Soil	1.1	28.3	61.0	404	0.8	13.5	9.3	373	4.02	23.5	0.3	1.0	1.0	9	0.8	0.5	0.2	73	0.08	0.074
L7W 200S	Soil	1.8	16.2	46.2	487	0.5	9.9	6.7	268	3.82	18.0	0.3	<0.5	0.5	15	1.9	0.4	0.2	83	0.16	0.040
L7W 225S	Soil	1.0	29.3	38.9	444	0.4	10.0	8.5	690	3.12	16.6	0.2	2.8	0.5	16	1.0	0.3	0.3	58	0.17	0.045
L7W 250S	Soil	1.4	31.1	44.4	454	0.4	14.0	9.4	569	4.18	34.0	0.2	<0.5	0.5	11	0.6	0.6	0.4	74	0.10	0.039
L7W 275S	Soil	1.9	66.4	89.1	575	0.9	20.9	14.9	2851	3.97	24.5	0.5	<0.5	0.6	36	3.6	0.4	0.3	76	0.78	0.058
L7W 300S	Soil	1.6	22.6	32.2	309	0.2	13.2	8.0	410	4.32	32.5	0.2	1.3	0.4	15	0.8	0.6	0.2	90	0.17	0.034
L7W 325S	Soil	3.8	22.0	133.1	418	0.5	11.4	10.6	716	4.75	35.8	0.2	<0.5	0.2	18	1.5	0.8	0.2	84	0.21	0.053
L7W 350S	Soil	2.0	11.3	18.9	235	0.3	7.3	4.7	277	2.31	9.0	0.2	<0.5	0.3	20	1.0	0.3	0.1	62	0.17	0.023
L7W 000N	Soil	4.5	92.6	53.8	1527	1.7	14.0	10.9	1068	3.68	31.2	1.5	1.2	0.5	34	5.1	0.5	0.5	70	0.51	0.061
L7W 025N	Soil	3.0	264.0	67.0	2199	2.6	31.1	20.4	1454	4.83	26.3	1.5	2.1	0.5	52	9.4	0.5	0.6	107	0.52	0.071
L7W 050N	Soil	2.2	37.2	26.7	518	1.1	8.4	7.7	379	3.14	18.7	0.3	0.8	0.5	17	1.3	0.3	0.4	61	0.21	0.024
L7W 075N	Soil	1.2	14.9	19.4	184	0.2	5.3	3.9	272	2.89	13.5	0.2	0.6	0.2	17	1.5	0.4	0.4	77	0.19	0.050
L7W 100N	Soil	2.4	31.9	43.2	626	1.0	11.0	11.8	852	5.61	55.8	0.2	1.2	0.6	10	1.5	0.4	0.7	82	0.11	0.118
L7W 125N	Soil	1.7	22.9	32.2	602	0.7	8.9	7.4	844	4.15	27.4	0.2	0.6	0.2	13	2.5	0.3	0.6	68	0.12	0.054
L7W 150N	Soil	1.5	106.8	59.2	1283	1.6	15.0	12.3	1712	4.15	37.8	0.5	1.7	0.3	32	4.9	0.3	0.8	73	0.51	0.072
L7W 175N	Soil	4.2	163.6	65.1	1544	2.0	21.7	13.0	1787	3.93	42.8	1.8	1.9	1.1	40	5.7	0.6	0.7	64	0.57	0.047
L7W 200N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L7W 225N	Soil	1.2	48.0	47.2	1293	0.5	14.0	14.2	2020	3.80	29.5	0.3	8.7	0.1	26	10.3	0.7	0.5	58	0.34	0.081
L7W 250N	Soil	1.9	44.6	28.9	647	0.3	26.8	14.9	939	4.60	11.8	0.6	1.1	1.3	33	2.6	0.3	0.3	158	0.53	0.251
L7W 275N	Soil	2.8	60.8	18.5	310	0.2	42.7	22.8	828	5.11	5.7	7.8	0.7	2.5	46	1.8	0.1	0.2	207	1.08	0.529
L7W 300N	Soil	1.7	33.3	32.9	487	0.2	24.3	14.8	1256	4.22	12.6	0.4	0.8	1.5	20	1.1	0.4	0.4	113	0.32	0.234
L7W 325N	Soil	1.7	30.6	33.2	428	0.2	19.1	11.1	497	4.10	15.3	0.4	<0.5	1.3	13	0.7	0.4	0.4	89	0.19	0.154

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Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L6W 425S	Soil	35	30	0.93	96	0.074	<20	2.00	0.010	0.07	0.2	<0.01	2.9	<0.1	<0.05	9	<0.5	<0.2
L6W 475S	Soil	5	28	0.81	86	0.038	<20	2.40	0.008	0.05	<0.1	0.03	4.3	<0.1	<0.05	6	<0.5	<0.2
L7W 025S	Soil	7	20	0.38	113	0.014	<20	1.97	0.005	0.06	<0.1	0.06	2.6	0.1	<0.05	8	<0.5	0.4
L7W 050S	Soil	6	21	0.49	115	0.017	<20	1.98	0.006	0.04	<0.1	0.03	3.4	<0.1	<0.05	7	<0.5	<0.2
L7W 075S	Soil	5	17	0.37	95	0.031	<20	1.44	0.005	0.05	<0.1	0.01	2.7	<0.1	<0.05	7	<0.5	<0.2
L7W 100S	Soil	20	24	0.72	136	0.014	<20	2.37	0.008	0.06	0.1	0.05	6.4	<0.1	<0.05	7	<0.5	<0.2
L7W 125S	Soil	6	29	0.76	101	0.035	<20	2.82	0.011	0.05	0.2	0.06	4.8	<0.1	<0.05	9	<0.5	<0.2
L7W 150S	Soil	6	18	0.35	93	0.020	<20	1.51	0.005	0.04	<0.1	<0.01	2.7	<0.1	<0.05	7	<0.5	<0.2
L7W 175S	Soil	5	23	0.52	83	0.022	<20	2.40	0.006	0.03	<0.1	0.07	3.6	<0.1	<0.05	6	<0.5	<0.2
L7W 200S	Soil	5	20	0.38	100	0.025	<20	1.69	0.004	0.04	0.1	0.03	2.6	<0.1	<0.05	8	<0.5	<0.2
L7W 225S	Soil	8	16	0.50	112	0.012	<20	1.88	0.005	0.04	<0.1	0.04	3.0	<0.1	<0.05	7	<0.5	<0.2
L7W 250S	Soil	5	20	0.65	92	0.020	<20	2.18	0.006	0.04	<0.1	0.03	3.3	<0.1	<0.05	7	<0.5	<0.2
L7W 275S	Soil	17	32	0.66	206	0.007	<20	2.86	0.008	0.07	0.1	0.07	7.5	0.2	<0.05	8	0.6	<0.2
L7W 300S	Soil	5	23	0.61	116	0.024	<20	1.82	0.005	0.04	0.1	0.03	3.4	<0.1	<0.05	7	<0.5	<0.2
L7W 325S	Soil	7	23	0.48	108	0.024	<20	1.83	0.005	0.05	0.1	0.02	3.2	<0.1	<0.05	7	<0.5	<0.2
L7W 350S	Soil	7	14	0.32	104	0.027	<20	0.98	0.005	0.03	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
L7W 000N	Soil	17	21	0.54	124	0.020	<20	2.23	0.007	0.06	<0.1	0.05	5.8	0.1	<0.05	8	<0.5	<0.2
L7W 025N	Soil	18	44	1.02	166	0.025	<20	2.51	0.028	0.09	<0.1	0.05	6.8	<0.1	<0.05	8	<0.5	<0.2
L7W 050N	Soil	7	16	0.34	78	0.013	<20	1.58	0.007	0.04	<0.1	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
L7W 075N	Soil	8	13	0.17	128	0.019	<20	1.07	0.004	0.05	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
L7W 100N	Soil	5	21	0.48	133	0.021	<20	2.26	0.007	0.06	<0.1	0.04	2.9	<0.1	<0.05	8	<0.5	<0.2
L7W 125N	Soil	5	17	0.44	115	0.015	<20	2.02	0.004	0.06	<0.1	0.04	2.4	<0.1	<0.05	7	<0.5	<0.2
L7W 150N	Soil	16	22	0.54	238	0.008	<20	2.61	0.007	0.09	<0.1	0.08	5.6	0.1	<0.05	8	<0.5	<0.2
L7W 175N	Soil	28	27	0.65	187	0.030	<20	2.33	0.010	0.08	0.1	0.09	10.4	0.2	<0.05	7	0.6	<0.2
L7W 200N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L7W 225N	Soil	13	20	0.57	115	0.025	<20	1.90	0.006	0.08	<0.1	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
L7W 250N	Soil	21	26	0.71	96	0.110	<20	1.59	0.009	0.07	0.1	0.02	2.1	<0.1	<0.05	9	<0.5	<0.2
L7W 275N	Soil	52	33	1.05	117	0.125	<20	1.27	0.012	0.05	0.3	0.02	1.5	<0.1	<0.05	9	<0.5	<0.2
L7W 300N	Soil	20	24	0.60	150	0.057	<20	1.97	0.006	0.06	0.1	0.03	2.6	<0.1	<0.05	8	<0.5	<0.2
L7W 325N	Soil	13	21	0.59	96	0.031	<20	2.12	0.005	0.06	<0.1	0.04	3.0	<0.1	<0.05	7	<0.5	<0.2

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Project: Grouse Mountain
Report Date: September 14, 2010

CERTIFICATE OF ANALYSIS SMI10000490.1

		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L7W 350N	Soil		1.3	11.6	28.1	274	0.4	12.1	7.2	764	3.36	9.0	0.2	<0.5	0.5	12	0.9	0.2	0.3	86	0.14	0.113
L7W 375N	Soil		1.0	24.7	26.5	584	0.7	11.8	9.4	793	4.29	21.1	0.2	1.6	0.4	12	1.4	0.3	0.4	58	0.15	0.089
L7W 400N	Soil		1.3	12.4	32.6	293	0.4	7.2	6.5	458	4.00	21.6	0.2	<0.5	0.5	8	0.7	0.4	0.7	62	0.08	0.092
L7W 425N	Soil		1.2	97.5	32.1	938	1.7	18.0	12.1	2180	3.94	24.0	0.6	1.2	0.4	33	5.5	0.5	0.5	60	0.63	0.072
L7W 450N	Soil		2.0	16.8	30.0	369	0.7	9.5	7.4	486	4.41	25.6	0.3	1.1	0.4	13	1.4	0.6	0.5	73	0.11	0.048
L7W 475N	Soil		1.6	33.2	25.4	335	0.6	13.9	9.5	483	3.92	15.0	0.3	1.3	0.7	13	0.8	0.4	0.5	81	0.19	0.026
L7W 500N	Soil		5.9	25.9	32.9	455	1.4	7.7	11.6	1574	4.29	13.5	0.3	0.7	0.7	19	1.8	0.3	0.4	87	0.31	0.039
L7W 525N	Soil		1.7	23.8	28.1	692	0.7	10.9	9.7	446	3.58	15.1	0.3	0.7	0.7	16	1.1	0.4	0.3	65	0.31	0.020
L7W 550N	Soil		1.7	17.7	26.6	555	0.7	10.9	8.9	805	3.69	17.3	0.2	<0.5	0.4	16	2.0	0.4	0.3	64	0.21	0.028
L7W 575N	Soil		1.3	29.0	35.5	650	0.4	9.4	9.2	1407	3.32	18.3	0.3	0.6	0.2	19	3.1	0.4	0.5	57	0.30	0.046
L7W 600N	Soil		0.8	26.3	28.7	595	0.8	10.7	9.3	949	3.31	17.8	0.3	<0.5	0.5	17	1.7	0.3	0.3	52	0.27	0.030
L7W 625N	Soil		2.1	39.0	52.8	517	1.6	9.2	10.7	907	3.25	12.5	0.3	<0.5	0.5	22	2.6	0.2	0.3	61	0.36	0.029
L7W 650N	Soil		0.9	12.2	16.1	232	0.1	12.4	8.2	371	3.12	12.3	0.2	<0.5	0.5	11	0.5	0.3	0.2	58	0.10	0.022
L8W 025S	Soil		1.3	31.0	48.1	786	0.6	12.1	8.5	479	5.25	23.4	0.3	<0.5	0.8	12	1.0	0.3	0.5	90	0.14	0.114
L8W 075S	Soil		1.4	45.4	91.8	1016	1.7	16.8	14.8	3005	4.32	26.8	0.5	4.7	0.5	32	5.1	0.5	0.4	78	0.65	0.061
L8W 125S	Soil		2.1	22.9	33.8	408	0.9	13.2	8.6	419	4.34	31.5	0.2	<0.5	0.5	16	0.9	0.5	0.2	89	0.18	0.047
L8W 175S	Soil		1.4	41.1	46.0	648	0.4	22.4	13.9	1121	4.10	25.4	0.4	9.2	0.4	28	1.6	0.4	0.3	79	0.42	0.066
L8W 225S	Soil		1.9	26.3	29.1	411	0.3	11.0	7.9	484	3.60	25.5	0.2	<0.5	0.5	15	1.1	0.4	0.2	64	0.17	0.027
L8W 275S	Soil		1.7	141.8	85.4	831	2.1	27.7	15.8	2110	4.49	29.2	0.8	1.1	0.7	47	3.1	0.3	0.2	81	0.81	0.060
L8W 000N	Soil		0.6	28.6	39.4	640	0.4	11.2	7.0	497	2.99	13.1	0.2	<0.5	0.5	15	0.8	0.2	0.2	56	0.21	0.022
L8W 025N	Soil		2.9	158.5	232.1	1278	2.1	19.6	14.6	2702	4.04	26.0	0.7	5.1	0.6	35	6.0	0.5	0.6	71	0.46	0.065
L8W 050N	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L8W 075N	Soil		1.9	24.5	51.2	757	1.2	11.3	11.3	543	4.70	24.8	0.2	0.9	0.7	10	2.0	0.4	0.5	81	0.11	0.049
L8W 100N	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L8W 125N	Soil		1.9	11.7	23.2	281	0.6	5.4	4.4	285	3.39	14.3	0.2	<0.5	0.3	14	1.9	0.4	0.4	82	0.15	0.033
L8W 150N	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L8W 175N	Soil		1.6	34.6	23.8	630	0.8	11.9	8.0	516	4.31	29.3	0.2	1.6	0.6	11	0.9	0.3	0.5	70	0.10	0.057
L8W 200N	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L8W 225N	Soil		2.3	33.6	35.3	700	0.8	10.4	6.6	495	4.23	20.9	0.2	1.0	0.2	15	1.7	0.3	0.6	80	0.17	0.079
L8W 250N	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.

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Project: Grouse Mountain
Report Date: September 14, 2010

CERTIFICATE OF ANALYSIS SMI10000490.1

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L7W 350N	Soil	9	19	0.36	103	0.027	<20	1.43	0.006	0.05	<0.1	0.03	2.0	<0.1	<0.05	6	<0.5	<0.2
L7W 375N	Soil	7	18	0.58	132	0.010	<20	2.20	0.004	0.06	<0.1	0.04	3.0	<0.1	<0.05	7	<0.5	<0.2
L7W 400N	Soil	6	14	0.34	81	0.013	<20	1.52	0.004	0.06	<0.1	0.04	2.5	<0.1	<0.05	7	<0.5	<0.2
L7W 425N	Soil	21	25	0.65	233	0.009	<20	2.67	0.007	0.08	<0.1	0.07	6.8	0.1	<0.05	7	0.6	<0.2
L7W 450N	Soil	6	19	0.40	90	0.024	<20	1.71	0.005	0.04	<0.1	0.04	2.6	<0.1	<0.05	8	<0.5	<0.2
L7W 475N	Soil	6	18	0.59	91	0.030	<20	2.13	0.004	0.05	<0.1	0.04	3.1	<0.1	<0.05	7	<0.5	<0.2
L7W 500N	Soil	6	17	0.28	115	0.019	<20	1.91	0.004	0.06	<0.1	0.05	3.2	<0.1	<0.05	7	<0.5	<0.2
L7W 525N	Soil	7	16	0.43	80	0.022	<20	1.61	0.005	0.04	<0.1	0.03	2.8	<0.1	<0.05	6	<0.5	<0.2
L7W 550N	Soil	6	18	0.50	113	0.019	<20	1.73	0.005	0.05	<0.1	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
L7W 575N	Soil	10	16	0.42	120	0.011	<20	1.76	0.005	0.06	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
L7W 600N	Soil	10	16	0.52	124	0.010	<20	1.88	0.005	0.07	<0.1	0.04	3.8	<0.1	<0.05	6	<0.5	<0.2
L7W 625N	Soil	10	15	0.33	165	0.011	<20	1.85	0.006	0.05	<0.1	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
L7W 650N	Soil	5	18	0.49	82	0.027	<20	1.45	0.005	0.03	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
L8W 025S	Soil	6	24	0.56	106	0.028	<20	2.64	0.004	0.05	<0.1	0.04	3.9	0.1	<0.05	11	<0.5	<0.2
L8W 075S	Soil	15	28	0.54	161	0.027	<20	2.48	0.006	0.06	<0.1	0.07	5.2	0.1	<0.05	8	<0.5	<0.2
L8W 125S	Soil	5	23	0.63	97	0.032	<20	2.14	0.005	0.04	<0.1	0.03	3.6	<0.1	<0.05	8	<0.5	<0.2
L8W 175S	Soil	10	27	0.78	124	0.022	<20	2.63	0.006	0.06	<0.1	0.03	4.2	<0.1	<0.05	9	<0.5	<0.2
L8W 225S	Soil	6	18	0.55	90	0.016	<20	1.80	0.004	0.04	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
L8W 275S	Soil	32	39	0.87	234	0.005	<20	3.69	0.009	0.10	<0.1	0.10	11.8	0.2	<0.05	10	0.5	<0.2
L8W 000N	Soil	6	18	0.64	73	0.020	<20	1.88	0.005	0.03	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
L8W 025N	Soil	20	25	0.66	155	0.017	<20	2.90	0.007	0.07	<0.1	0.08	5.7	0.1	<0.05	8	0.6	<0.2
L8W 050N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L8W 075N	Soil	5	24	0.43	99	0.038	<20	2.30	0.006	0.05	<0.1	0.06	2.9	<0.1	<0.05	7	<0.5	<0.2
L8W 100N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L8W 125N	Soil	6	14	0.18	95	0.022	<20	1.17	0.003	0.03	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
L8W 150N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L8W 175N	Soil	7	20	0.59	98	0.023	<20	2.11	0.005	0.05	<0.1	0.04	3.3	<0.1	0.05	6	<0.5	<0.2
L8W 200N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L8W 225N	Soil	7	18	0.41	111	0.012	<20	2.12	0.006	0.07	0.1	0.04	2.7	<0.1	0.05	8	<0.5	<0.2
L8W 250N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.

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Suite 800 - 1199 W. Hastings Street
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Project: Grouse Mountain
Report Date: September 14, 2010

CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L8W 275N	Soil	1.3	100.2	45.7	754	1.4	16.7	14.8	1466	4.05	34.1	0.3	2.1	0.5	21	2.8	0.6	0.7	66	0.33	0.045
L8W 300N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L8W 325N	Soil	1.1	31.9	49.3	806	0.4	14.5	14.2	1609	4.12	30.2	0.2	1.1	0.1	19	2.7	0.5	0.5	72	0.30	0.058
L8W 425N	Soil	1.1	23.0	33.2	765	0.3	11.6	10.0	1077	3.85	24.7	0.2	0.5	0.2	18	2.7	0.5	0.5	61	0.18	0.051
L8W 475N	Soil	2.1	15.3	38.8	504	0.5	9.7	10.1	585	3.92	17.5	0.2	85.3	0.7	9	1.8	0.2	0.6	82	0.10	0.087
L8W 525N	Soil	1.2	46.7	34.8	1005	0.3	17.3	14.1	1623	3.50	18.0	0.3	1.4	0.5	43	2.7	0.7	0.3	66	0.86	0.080
L9W 025N	Soil	60.9	102.5	369.4	1200	14.5	28.9	29.1	>10000	8.96	106.2	0.6	4.2	0.7	88	15.9	5.1	0.1	98	2.18	0.844
L9W 050N	Soil	1.0	40.8	41.5	2026	0.9	14.2	9.9	1320	3.67	18.8	0.4	0.8	1.1	23	3.1	0.3	0.5	69	0.29	0.024
L9W 075N	Soil	1.6	39.2	41.2	520	0.3	13.2	9.8	460	3.95	28.3	0.2	2.3	0.5	15	1.2	0.3	0.6	75	0.20	0.037
L9W 100N	Soil	1.2	41.8	26.1	534	1.1	10.5	8.3	409	3.23	21.5	0.2	<0.5	0.6	19	1.2	0.2	3.4	70	0.26	0.019
L9W 125N	Soil	1.6	46.6	33.0	301	0.3	13.6	7.9	520	3.68	26.6	0.3	<0.5	0.6	13	0.9	0.4	0.4	68	0.15	0.031
L9W 150N	Soil	1.5	47.8	28.9	324	0.6	13.8	8.7	655	3.81	28.3	0.2	0.6	0.3	19	1.1	0.3	0.4	70	0.23	0.028
L9W 175N	Soil	2.5	157.8	103.5	1169	1.5	19.2	17.3	2342	4.48	38.0	0.4	8.3	0.6	25	4.9	1.1	1.1	58	0.46	0.098
L9W 200N	Soil	1.6	48.0	65.7	905	0.4	12.5	14.8	1733	4.30	37.6	0.2	0.9	0.2	20	2.6	0.7	0.8	64	0.32	0.057
L9W 225N	Soil	1.3	48.0	58.8	648	0.3	13.5	16.4	2762	3.90	33.0	0.2	<0.5	0.1	23	5.0	0.7	0.5	61	0.39	0.087
L9W 250N	Soil	1.0	71.2	61.9	984	1.0	16.3	14.8	2821	3.59	23.1	0.2	1.0	0.3	32	11.5	0.6	0.4	48	0.71	0.096
L9W 275N	Soil	0.9	25.5	28.8	646	0.2	11.8	11.0	1450	3.50	20.3	0.2	1.2	0.1	24	3.5	0.5	0.4	55	0.40	0.084
L9W 300N	Soil	1.0	35.1	42.9	1156	0.4	12.9	13.5	2323	3.68	23.0	0.2	1.2	0.2	36	9.5	0.5	0.4	60	0.74	0.096
L9W 325N	Soil	1.0	50.9	45.2	612	0.6	15.5	13.2	1961	3.98	23.2	0.2	1.0	0.1	18	2.7	0.6	0.5	57	0.24	0.068
L9W 350N	Soil	1.2	25.3	35.0	616	0.3	10.7	8.7	808	3.52	17.1	0.2	<0.5	0.4	17	2.8	0.2	0.4	68	0.19	0.034
L9W 375N	Soil	0.9	14.8	16.2	565	0.2	11.1	8.6	825	3.25	11.8	0.2	1.0	0.5	18	2.3	0.2	0.3	61	0.21	0.038
L9W 400N	Soil	1.0	20.5	23.0	509	0.3	11.0	9.2	580	3.86	19.3	0.2	<0.5	0.6	9	1.2	0.2	0.4	68	0.09	0.048
L9W 000S	Soil	1.7	19.0	23.3	595	0.8	8.9	7.0	356	3.08	22.4	0.3	<0.5	0.7	20	1.3	0.1	0.2	69	0.27	0.024
L9W 025S	Soil	1.7	54.5	55.6	887	1.0	12.6	10.8	560	3.83	23.0	0.3	0.7	0.6	29	2.3	0.4	0.4	79	0.46	0.034
L9W 050S	Soil	2.6	218.8	100.6	2077	3.3	19.7	13.2	2212	4.01	28.7	1.2	2.5	0.6	39	9.7	0.8	0.5	71	0.72	0.065
L9W 075S	Soil	2.0	163.5	181.5	1758	2.3	24.6	16.8	2761	4.56	21.7	0.7	<0.5	1.0	36	9.1	0.3	0.5	89	0.51	0.064
L9W 100S	Soil	1.6	61.5	81.2	1160	1.2	16.5	12.5	812	3.82	20.7	0.4	1.3	0.5	27	3.2	0.3	0.3	80	0.43	0.043
L9W 125S	Soil	1.4	31.1	57.7	654	0.5	16.0	11.2	467	4.69	18.8	0.3	1.1	0.9	15	1.3	0.3	0.2	83	0.15	0.074
L9W 150S	Soil	1.3	32.5	47.1	524	0.2	13.9	9.9	557	4.57	20.2	0.2	0.7	0.6	14	0.6	0.2	0.3	96	0.15	0.086
L9W 175S	Soil	1.0	29.7	43.2	397	0.3	12.5	9.9	750	3.93	19.2	0.2	<0.5	0.6	16	0.7	0.3	0.2	94	0.15	0.048

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	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L8W 275N	Soil	17	23	0.76	165	0.019	<20	2.24	0.007	0.10	<0.1	0.06	6.5	<0.1	<0.05	6	<0.5	<0.2
L8W 300N	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L8W 325N	Soil	7	23	0.71	109	0.028	<20	2.00	0.005	0.09	<0.1	0.02	2.6	<0.1	0.06	6	<0.5	<0.2
L8W 425N	Soil	8	20	0.58	96	0.023	<20	1.99	0.004	0.06	<0.1	0.02	2.5	<0.1	0.05	6	<0.5	<0.2
L8W 475N	Soil	7	19	0.38	110	0.024	<20	1.86	0.006	0.06	<0.1	0.05	3.0	<0.1	<0.05	8	<0.5	<0.2
L8W 525N	Soil	10	30	0.69	117	0.030	<20	1.67	0.006	0.07	<0.1	0.07	4.8	<0.1	0.08	5	<0.5	<0.2
L9W 025N	Soil	57	15	0.46	267	0.012	<20	3.78	0.003	0.03	0.3	0.39	12.7	0.9	0.13	6	1.1	0.3
L9W 050N	Soil	9	22	0.45	112	0.034	<20	2.42	0.007	0.05	<0.1	0.03	5.3	0.1	<0.05	7	<0.5	<0.2
L9W 075N	Soil	6	20	0.46	102	0.020	<20	2.37	0.006	0.05	<0.1	0.02	3.4	0.1	<0.05	7	<0.5	<0.2
L9W 100N	Soil	7	18	0.47	93	0.023	<20	1.62	0.006	0.04	<0.1	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
L9W 125N	Soil	8	20	0.56	118	0.019	<20	1.91	0.006	0.06	<0.1	0.02	3.8	<0.1	<0.05	6	<0.5	<0.2
L9W 150N	Soil	8	21	0.54	153	0.016	<20	1.87	0.006	0.07	<0.1	0.03	3.3	<0.1	<0.05	6	<0.5	<0.2
L9W 175N	Soil	21	25	0.91	125	0.026	<20	1.98	0.010	0.11	<0.1	0.12	8.1	<0.1	<0.05	6	<0.5	<0.2
L9W 200N	Soil	7	21	0.68	101	0.019	<20	2.11	0.005	0.08	<0.1	0.02	3.0	<0.1	0.06	6	<0.5	<0.2
L9W 225N	Soil	9	21	0.57	140	0.023	<20	1.93	0.005	0.08	<0.1	0.02	2.4	<0.1	0.07	6	<0.5	<0.2
L9W 250N	Soil	11	18	0.58	152	0.016	<20	1.83	0.005	0.17	<0.1	0.04	3.5	<0.1	0.07	5	<0.5	<0.2
L9W 275N	Soil	7	18	0.56	114	0.023	<20	1.73	0.005	0.07	<0.1	0.01	2.0	<0.1	0.07	6	<0.5	<0.2
L9W 300N	Soil	8	18	0.50	156	0.024	<20	1.68	0.005	0.12	<0.1	0.02	2.5	<0.1	0.07	6	<0.5	<0.2
L9W 325N	Soil	11	20	0.65	105	0.016	<20	2.07	0.006	0.07	<0.1	0.03	3.0	<0.1	0.06	6	<0.5	<0.2
L9W 350N	Soil	11	17	0.41	102	0.025	<20	1.60	0.005	0.07	<0.1	0.02	3.3	<0.1	<0.05	6	<0.5	<0.2
L9W 375N	Soil	7	17	0.52	105	0.025	<20	1.68	0.006	0.06	<0.1	0.03	2.8	<0.1	<0.05	6	<0.5	<0.2
L9W 400N	Soil	6	19	0.59	94	0.020	<20	2.05	0.005	0.06	<0.1	0.03	3.5	<0.1	<0.05	6	<0.5	<0.2
L9W 000S	Soil	8	20	0.38	112	0.012	<20	1.81	0.006	0.04	<0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
L9W 025S	Soil	11	22	0.49	105	0.020	<20	2.23	0.006	0.05	<0.1	0.04	4.7	<0.1	<0.05	7	<0.5	<0.2
L9W 050S	Soil	20	27	0.74	143	0.036	<20	2.43	0.009	0.07	<0.1	0.06	9.5	0.1	<0.05	7	0.5	0.3
L9W 075S	Soil	25	33	0.71	217	0.022	<20	3.68	0.012	0.08	<0.1	0.03	8.1	0.2	<0.05	10	<0.5	<0.2
L9W 100S	Soil	10	24	0.63	129	0.030	<20	2.49	0.007	0.05	<0.1	0.04	4.8	<0.1	<0.05	7	<0.5	<0.2
L9W 125S	Soil	6	26	0.70	100	0.044	<20	3.03	0.007	0.05	<0.1	0.06	4.2	<0.1	<0.05	9	<0.5	<0.2
L9W 150S	Soil	7	25	0.65	111	0.031	<20	2.64	0.006	0.06	<0.1	0.03	4.6	0.1	<0.05	9	<0.5	<0.2
L9W 175S	Soil	6	23	0.58	136	0.031	<20	2.44	0.006	0.05	<0.1	0.04	4.0	0.1	<0.05	8	<0.5	<0.2

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	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L9W 200S	Soil	1.7	37.0	71.7	676	0.9	14.5	10.1	443	4.95	27.2	0.3	1.5	0.8	10	1.0	0.3	0.2	96	0.13	0.089
L9W 225S	Soil	1.1	14.4	33.9	241	0.5	6.7	4.9	309	3.17	11.8	0.2	4.4	0.5	13	0.6	0.2	0.2	81	0.13	0.079
L9W 250S	Soil	1.8	29.8	68.5	1142	0.7	11.9	11.1	437	5.24	22.2	0.3	<0.5	0.6	15	2.5	0.2	0.2	105	0.23	0.083
L9W 275S	Soil	2.2	191.0	304.6	3011	2.8	33.7	16.9	2619	5.21	28.5	0.7	1.7	1.3	45	9.6	0.4	0.4	92	0.67	0.087
L9W 300S	Soil	1.1	19.0	20.8	270	0.3	14.9	9.9	357	3.70	13.9	0.3	0.6	0.7	14	1.5	0.2	0.1	76	0.13	0.071
L9W 325S	Soil	1.1	26.0	45.9	389	0.3	13.8	7.5	369	3.34	14.0	0.2	1.3	0.7	15	0.6	0.3	0.2	72	0.18	0.035
L9W 350S	Soil	1.8	194.3	79.1	836	3.4	30.2	13.2	1455	5.05	36.4	1.0	1.4	1.1	44	2.5	0.3	0.3	88	0.93	0.045
L9W 375S	Soil	1.3	24.4	34.9	360	0.4	12.9	7.7	322	3.27	17.7	0.2	0.8	0.4	18	0.9	0.3	0.2	72	0.27	0.028
L9W 400S	Soil	1.3	182.4	82.9	883	3.2	31.7	14.3	1604	4.69	32.4	0.7	6.7	0.8	56	5.2	0.4	0.2	83	1.19	0.062
L9W 425S	Soil	1.5	10.8	32.3	372	0.4	9.0	9.1	848	3.52	9.3	0.2	<0.5	0.2	19	2.0	0.2	0.2	83	0.23	0.060
L9W 450S	Soil	1.5	19.7	39.2	244	0.3	11.8	7.6	274	3.02	12.7	0.2	0.6	0.3	15	1.0	0.2	0.1	76	0.16	0.021
L9W 475S	Soil	1.3	37.0	81.6	586	0.5	17.9	16.0	1313	3.59	19.5	0.3	0.9	0.5	26	2.0	0.2	0.1	87	0.47	0.036
L9W 500S	Soil	1.0	14.7	30.1	371	0.3	12.4	8.1	422	3.77	15.9	0.2	<0.5	0.3	13	1.2	0.3	0.1	89	0.17	0.034
L9W 525S	Soil	1.1	18.8	27.1	278	0.3	15.9	11.5	437	3.91	18.4	0.2	1.3	0.5	12	0.7	0.4	0.1	86	0.17	0.042
L9W 550S	Soil	1.1	19.9	24.2	269	<0.1	15.7	9.5	489	3.87	18.1	0.2	0.9	0.5	12	1.4	0.4	0.1	90	0.12	0.023
L9W 575S	Soil	0.9	26.5	20.0	260	0.3	12.8	8.8	378	3.12	12.3	0.3	1.1	0.3	22	1.0	0.3	0.1	77	0.37	0.028
L9W 600S	Soil	1.3	19.6	27.1	305	0.2	14.9	11.2	427	3.83	16.2	0.2	0.5	0.5	17	0.7	0.3	0.1	85	0.23	0.028
L9W 625S	Soil	1.4	15.3	20.2	330	0.2	14.7	10.1	387	4.06	15.9	0.2	<0.5	0.5	21	0.6	0.2	0.1	91	0.26	0.035
L9W 650S	Soil	2.4	79.6	43.7	487	1.3	26.9	13.1	1263	4.46	26.6	0.9	0.8	0.6	59	2.0	0.4	0.2	88	1.08	0.078
L9W 675S	Soil	2.8	42.8	45.1	463	1.6	19.0	14.0	730	3.99	19.9	0.4	0.9	0.7	26	1.7	0.2	0.2	82	0.41	0.041
L9W 700S	Soil	1.2	23.2	29.0	351	0.3	15.7	9.6	773	3.45	16.4	0.3	0.6	0.5	18	0.8	0.2	0.1	76	0.27	0.032
L9W 725S	Soil	1.6	21.6	41.4	323	0.6	14.7	10.0	341	4.21	23.7	0.3	<0.5	0.7	15	0.5	0.3	0.2	80	0.20	0.035
L9W 750S	Soil	1.2	51.2	59.5	452	0.9	21.1	14.2	2147	3.94	26.4	0.4	<0.5	0.8	31	2.0	0.3	0.2	74	0.58	0.035
L9W 775S	Soil	0.8	28.0	21.2	287	0.4	16.0	10.1	559	3.18	16.9	0.3	<0.5	0.5	18	0.6	0.4	0.1	68	0.32	0.021
L9W 800S	Soil	2.0	17.7	25.1	291	0.6	13.0	11.2	379	4.33	20.7	0.2	<0.5	0.3	16	1.0	0.4	0.1	114	0.27	0.030
L10W 025S	Soil	1.8	52.4	98.8	1169	0.8	13.8	14.8	1323	4.00	34.8	0.4	0.7	0.3	19	4.6	0.4	0.3	84	0.32	0.058
L10W 075S	Soil	1.3	34.5	46.2	1194	0.4	13.4	8.8	817	3.20	17.8	0.3	1.7	0.6	21	2.0	0.2	0.2	68	0.32	0.024
L10W 125S	Soil	1.8	26.2	31.7	490	0.5	14.8	9.7	524	4.19	26.8	0.3	0.7	0.6	17	1.2	0.4	0.2	89	0.28	0.057
L10W 175S	Soil	1.6	22.6	41.1	447	0.2	11.3	7.2	316	3.90	22.2	0.2	0.5	0.5	14	1.5	0.3	0.1	103	0.22	0.036
L10W 225S	Soil	1.2	15.7	18.3	257	0.1	11.8	7.2	460	3.99	82.3	0.2	0.9	0.7	12	1.0	0.3	0.1	76	0.12	0.054

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Project: Grouse Mountain
Report Date: September 14, 2010

CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L9W 200S	Soil	5	26	0.63	79	0.039	<20	3.09	0.005	0.04	<0.1	0.10	4.8	0.1	<0.05	8	<0.5	<0.2
L9W 225S	Soil	6	16	0.32	60	0.026	<20	1.90	0.005	0.04	<0.1	0.05	3.3	0.1	<0.05	9	<0.5	<0.2
L9W 250S	Soil	8	24	0.53	84	0.031	<20	2.68	0.006	0.04	<0.1	0.05	4.3	<0.1	<0.05	10	<0.5	0.2
L9W 275S	Soil	17	41	0.72	323	0.023	<20	4.47	0.019	0.16	<0.1	0.05	11.7	0.2	<0.05	12	<0.5	<0.2
L9W 300S	Soil	5	24	0.37	105	0.031	<20	2.29	0.006	0.03	<0.1	0.04	3.4	<0.1	<0.05	7	<0.5	<0.2
L9W 325S	Soil	6	21	0.55	82	0.039	<20	1.86	0.005	0.04	<0.1	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
L9W 350S	Soil	39	42	0.76	284	0.007	<20	3.88	0.013	0.11	<0.1	0.12	14.3	0.2	<0.05	10	<0.5	<0.2
L9W 375S	Soil	5	22	0.51	92	0.016	<20	2.00	0.006	0.05	<0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
L9W 400S	Soil	35	41	0.81	286	0.006	<20	3.96	0.013	0.13	<0.1	0.11	15.8	0.2	<0.05	9	<0.5	<0.2
L9W 425S	Soil	5	20	0.34	132	0.028	<20	1.63	0.006	0.06	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
L9W 450S	Soil	7	19	0.36	82	0.018	<20	1.43	0.006	0.04	<0.1	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
L9W 475S	Soil	11	29	0.52	127	0.014	<20	2.41	0.009	0.06	<0.1	0.03	4.4	<0.1	<0.05	7	<0.5	<0.2
L9W 500S	Soil	5	23	0.52	93	0.030	<20	1.72	0.005	0.05	<0.1	0.04	2.9	<0.1	<0.05	7	<0.5	<0.2
L9W 525S	Soil	4	26	0.66	85	0.032	<20	1.94	0.005	0.04	<0.1	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
L9W 550S	Soil	4	25	0.60	78	0.035	<20	1.78	0.005	0.04	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
L9W 575S	Soil	9	23	0.43	129	0.014	<20	1.73	0.007	0.04	<0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
L9W 600S	Soil	6	26	0.59	88	0.026	<20	1.93	0.008	0.04	<0.1	0.01	3.0	<0.1	<0.05	7	<0.5	<0.2
L9W 625S	Soil	6	27	0.62	113	0.034	<20	1.94	0.008	0.04	<0.1	0.02	2.7	<0.1	<0.05	8	<0.5	<0.2
L9W 650S	Soil	19	41	0.77	252	0.007	<20	3.88	0.013	0.10	<0.1	0.09	12.4	0.1	<0.05	9	<0.5	<0.2
L9W 675S	Soil	14	34	0.49	157	0.007	<20	2.81	0.007	0.09	<0.1	0.06	5.7	0.1	<0.05	8	<0.5	<0.2
L9W 700S	Soil	11	26	0.56	119	0.013	<20	2.36	0.006	0.05	<0.1	0.04	3.9	<0.1	<0.05	7	<0.5	<0.2
L9W 725S	Soil	11	23	0.57	92	0.016	<20	2.75	0.008	0.04	<0.1	0.05	3.9	<0.1	<0.05	8	<0.5	<0.2
L9W 750S	Soil	16	34	0.67	170	0.010	<20	2.70	0.009	0.07	<0.1	0.07	8.5	0.1	<0.05	7	<0.5	<0.2
L9W 775S	Soil	10	24	0.63	83	0.025	<20	1.81	0.007	0.04	<0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
L9W 800S	Soil	6	25	0.46	88	0.032	<20	1.99	0.008	0.05	<0.1	0.03	3.1	<0.1	<0.05	8	<0.5	<0.2
L10W 025S	Soil	11	25	0.52	118	0.024	<20	2.30	0.007	0.05	<0.1	0.04	3.6	0.1	<0.05	8	<0.5	<0.2
L10W 075S	Soil	7	21	0.73	124	0.023	<20	2.32	0.007	0.05	<0.1	0.02	4.9	0.1	<0.05	8	<0.5	<0.2
L10W 125S	Soil	6	25	0.66	87	0.035	<20	2.32	0.007	0.05	<0.1	0.04	3.4	<0.1	0.05	8	<0.5	<0.2
L10W 175S	Soil	5	22	0.46	76	0.017	<20	1.86	0.004	0.05	<0.1	0.03	3.0	<0.1	<0.05	7	<0.5	<0.2
L10W 225S	Soil	4	21	0.47	78	0.037	<20	1.89	0.006	0.04	<0.1	0.02	2.6	<0.1	<0.05	8	<0.5	<0.2

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CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L10W 275S	Soil	0.9	31.3	74.6	373	0.4	15.4	9.6	607	2.93	16.7	0.2	0.7	0.5	24	1.0	0.5	0.1	62	0.44	0.026
L10W 325S	Soil	1.1	90.5	58.2	883	1.9	27.3	14.1	1877	4.35	25.5	0.6	<0.5	0.8	44	3.7	0.5	0.2	86	0.93	0.056
L10W 375S	Soil	2.5	20.2	41.0	405	1.0	9.0	9.7	488	4.37	21.6	0.2	0.8	0.6	9	1.2	0.3	1.3	87	0.09	0.052
L10W 425S	Soil	1.3	20.5	27.1	349	0.3	18.7	11.2	395	3.90	18.0	0.2	1.3	0.6	13	1.0	0.4	0.2	81	0.12	0.057
L10W 475S	Soil	0.8	65.9	32.2	437	1.4	21.5	9.5	904	3.53	18.0	0.5	0.8	0.8	38	1.6	0.4	0.2	70	0.78	0.047
L10W 525S	Soil	0.9	8.6	26.7	115	0.3	6.9	4.4	222	2.42	7.6	0.2	<0.5	0.4	13	0.5	0.3	0.2	70	0.15	0.021
L10W 575S	Soil	1.2	31.4	24.3	350	0.7	16.3	9.7	541	3.37	21.2	0.4	0.6	0.5	23	1.0	0.4	0.1	72	0.36	0.027
L10W 625S	Soil	1.0	14.5	26.0	219	0.4	8.0	7.4	302	2.93	16.8	0.2	<0.5	0.4	16	0.5	0.3	0.2	72	0.30	0.023
L10W 675S	Soil	1.2	32.7	24.6	365	0.8	17.7	11.9	927	3.52	19.4	0.3	0.7	0.5	18	1.8	0.4	0.1	73	0.30	0.033
L10W 025N	Soil	1.5	9.1	27.3	281	0.5	7.2	5.9	390	3.88	12.6	0.1	0.8	0.3	12	1.9	0.3	0.2	91	0.10	0.067
L10W 075N	Soil	1.2	58.1	46.7	1249	0.9	14.8	12.5	1055	3.91	23.3	0.4	0.9	0.4	25	3.7	0.6	0.3	70	0.46	0.041
L10W 125N	Soil	2.8	13.3	30.4	528	1.9	6.1	6.5	451	2.90	9.4	0.2	1.2	0.6	14	1.9	0.2	0.4	63	0.15	0.021
L10W 175N	Soil	1.7	14.3	32.7	614	0.5	10.5	10.5	557	4.00	15.8	0.2	2.4	0.7	13	3.4	0.3	0.4	74	0.11	0.031
L10W 225N	Soil	1.4	23.5	37.2	606	0.6	10.1	9.9	760	3.94	23.8	0.2	1.3	0.5	15	3.1	0.3	0.8	71	0.16	0.061
L10W 250N	Soil	1.3	32.6	33.1	563	0.6	12.7	9.4	691	3.43	21.3	0.2	1.1	0.4	18	2.0	0.3	0.6	65	0.21	0.028
L10W 275N	Soil	1.4	34.3	43.9	516	0.9	11.8	7.6	496	3.41	64.5	0.2	1.0	0.5	14	2.1	0.4	0.7	64	0.14	0.034
L10W 325N	Soil	1.7	45.6	44.4	512	0.4	15.7	12.0	748	4.53	33.1	0.3	1.6	0.7	14	1.8	0.3	0.6	79	0.14	0.069
L10W 375N	Soil	1.0	37.8	42.4	446	0.3	12.4	12.5	1353	3.73	19.6	0.2	1.2	0.3	24	2.3	0.5	0.3	49	0.42	0.068
L10W 425N	Soil	0.9	37.8	34.2	577	0.4	13.0	11.8	1099	3.69	22.4	0.2	0.9	0.3	23	3.1	0.4	0.4	63	0.33	0.038
L10W 475N	Soil	0.9	45.9	36.2	715	0.4	13.2	12.1	1659	3.60	21.8	0.2	0.9	0.1	28	4.5	0.7	0.5	52	0.43	0.086
L10W 525N	Soil	1.2	24.6	28.8	593	0.4	9.9	9.1	811	3.35	16.6	0.2	0.6	0.3	17	4.3	0.3	0.4	63	0.24	0.035
L12W 025N	Soil	1.2	22.4	47.5	983	0.2	14.1	12.7	1344	3.95	19.7	0.2	2.7	0.6	22	4.7	0.4	0.2	85	0.32	0.027
L12W 075N	Soil	1.7	19.9	28.9	336	0.8	8.1	11.5	1011	4.01	28.1	0.1	<0.5	0.4	14	1.5	0.3	0.2	70	0.23	0.065
L12W 125N	Soil	1.4	33.8	44.7	533	0.6	11.6	8.5	613	3.80	14.6	0.3	<0.5	0.7	15	1.6	0.2	0.3	72	0.17	0.072
L12W 175N	Soil	1.9	53.2	30.5	569	0.6	14.7	8.5	423	4.13	16.7	0.2	0.6	0.6	16	2.2	0.3	0.2	73	0.18	0.067
L12W 225N	Soil	1.4	21.9	32.3	407	0.5	9.2	7.2	373	3.91	21.6	0.3	<0.5	0.5	14	1.4	0.3	0.5	75	0.12	0.053
L12W 275N	Soil	1.6	30.2	36.9	510	0.8	8.5	7.1	601	3.20	14.1	0.2	<0.5	0.3	19	3.3	0.2	0.4	66	0.25	0.042
L12W 325N	Soil	1.0	39.4	18.1	213	0.1	19.6	10.4	655	3.21	18.9	0.2	1.0	0.6	23	0.8	0.5	0.3	59	0.40	0.039
L12W 025S	Soil	1.1	29.0	36.1	775	0.5	11.5	12.3	1778	3.67	16.2	0.2	3.9	0.5	23	4.2	0.4	0.2	73	0.34	0.026
L12W 075S	Soil	1.6	39.3	118.5	1635	0.7	13.6	14.6	2966	4.25	16.9	0.2	1.7	0.4	27	8.9	0.3	0.3	80	0.37	0.046

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	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L10W 275S	Soil	10	24	0.55	86	0.022	<20	1.69	0.007	0.04	<0.1	0.03	4.3	<0.1	0.06	5	<0.5	<0.2
L10W 325S	Soil	21	39	0.73	231	0.011	<20	3.33	0.011	0.09	<0.1	0.09	12.1	0.1	0.07	8	<0.5	<0.2
L10W 375S	Soil	5	20	0.37	69	0.020	<20	2.03	0.005	0.04	<0.1	0.04	2.5	<0.1	0.05	8	<0.5	<0.2
L10W 425S	Soil	5	26	0.55	99	0.028	<20	2.39	0.006	0.05	<0.1	0.05	3.2	<0.1	0.07	7	<0.5	<0.2
L10W 475S	Soil	21	35	0.61	208	0.010	<20	2.40	0.009	0.06	<0.1	0.08	9.5	0.1	<0.05	7	<0.5	<0.2
L10W 525S	Soil	6	15	0.24	64	0.027	<20	1.01	0.006	0.03	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
L10W 575S	Soil	10	27	0.59	112	0.020	<20	1.93	0.008	0.04	<0.1	0.04	5.9	<0.1	<0.05	6	<0.5	<0.2
L10W 625S	Soil	7	18	0.33	64	0.013	<20	1.46	0.006	0.03	0.2	0.01	2.7	<0.1	0.05	6	<0.5	<0.2
L10W 675S	Soil	11	29	0.62	108	0.015	<20	2.13	0.006	0.05	<0.1	0.04	4.9	<0.1	<0.05	6	<0.5	<0.2
L10W 025N	Soil	5	16	0.28	82	0.022	<20	1.37	0.006	0.04	<0.1	0.02	1.9	<0.1	<0.05	8	<0.5	<0.2
L10W 075N	Soil	10	23	0.65	87	0.028	<20	1.87	0.005	0.05	<0.1	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2
L10W 125N	Soil	7	15	0.24	63	0.015	<20	1.31	0.003	0.03	<0.1	0.04	2.0	<0.1	<0.05	6	<0.5	<0.2
L10W 175N	Soil	7	21	0.47	98	0.031	<20	1.81	0.004	0.04	<0.1	0.03	2.6	<0.1	<0.05	7	<0.5	<0.2
L10W 225N	Soil	7	18	0.49	152	0.022	<20	1.89	0.004	0.05	<0.1	0.03	2.8	<0.1	<0.05	7	<0.5	<0.2
L10W 250N	Soil	8	20	0.56	89	0.020	<20	1.75	0.004	0.05	<0.1	0.03	3.1	<0.1	<0.05	6	<0.5	<0.2
L10W 275N	Soil	7	19	0.50	75	0.019	<20	1.75	0.005	0.04	<0.1	0.03	2.8	<0.1	<0.05	6	<0.5	<0.2
L10W 325N	Soil	7	24	0.57	123	0.017	<20	2.46	0.005	0.08	<0.1	0.04	4.0	<0.1	<0.05	7	<0.5	<0.2
L10W 375N	Soil	6	18	0.66	81	0.012	<20	1.81	0.004	0.08	<0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
L10W 425N	Soil	10	20	0.53	111	0.019	<20	1.89	0.006	0.06	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
L10W 475N	Soil	9	20	0.58	123	0.019	<20	1.76	0.005	0.08	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
L10W 525N	Soil	8	17	0.44	96	0.018	<20	1.58	0.004	0.06	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
L12W 025N	Soil	6	25	0.73	119	0.040	<20	2.00	0.004	0.05	<0.1	0.01	3.8	<0.1	<0.05	7	<0.5	<0.2
L12W 075N	Soil	13	14	0.54	89	0.016	<20	1.75	0.003	0.06	<0.1	0.04	2.7	<0.1	<0.05	7	<0.5	<0.2
L12W 125N	Soil	7	20	0.48	138	0.020	<20	1.96	0.006	0.05	<0.1	0.04	3.0	<0.1	<0.05	7	<0.5	<0.2
L12W 175N	Soil	6	23	0.43	107	0.025	<20	2.14	0.005	0.05	<0.1	0.04	2.8	<0.1	<0.05	7	<0.5	<0.2
L12W 225N	Soil	7	19	0.35	105	0.023	<20	1.70	0.004	0.05	<0.1	0.03	2.6	0.1	<0.05	7	<0.5	<0.2
L12W 275N	Soil	9	15	0.31	86	0.013	<20	1.64	0.004	0.06	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
L12W 325N	Soil	7	24	0.63	106	0.027	<20	1.58	0.007	0.07	<0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
L12W 025S	Soil	7	22	0.57	105	0.045	<20	1.79	0.005	0.06	<0.1	0.01	3.3	<0.1	<0.05	7	<0.5	<0.2
L12W 075S	Soil	8	23	0.49	164	0.031	<20	2.20	0.005	0.10	<0.1	0.04	3.4	<0.1	<0.05	8	<0.5	<0.2

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Project: Grouse Mountain
Report Date: September 14, 2010

CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L12W 125S	Soil	1.0	52.9	59.9	507	0.6	20.9	13.8	1139	4.00	31.3	0.4	1.1	0.4	24	1.0	0.3	0.2	78	0.33	0.051
L12W 175S	Soil	1.0	38.2	58.9	675	0.3	18.6	14.0	1289	3.91	24.8	0.3	<0.5	0.5	23	1.1	0.4	0.2	77	0.31	0.041
L12W 225S	Soil	1.0	18.3	58.1	365	0.2	12.7	13.4	1054	4.64	21.1	0.3	<0.5	0.8	12	0.6	0.2	0.2	97	0.09	0.095
L12W 275S	Soil	1.5	24.0	30.0	566	0.3	10.7	13.2	1341	4.19	14.6	0.2	24.6	0.5	22	3.8	0.2	0.2	87	0.30	0.036
L12W 325S	Soil	1.5	20.8	52.0	987	0.8	13.0	15.7	2333	4.20	25.0	0.3	<0.5	0.4	21	6.4	0.3	0.2	76	0.49	0.054
L12W 375S	Soil	1.2	148.3	58.6	1078	4.2	27.7	13.3	1376	4.96	33.9	1.0	4.2	1.1	54	2.4	0.6	0.2	82	1.05	0.050
L12W 425S	Soil	1.3	10.8	26.5	253	0.5	8.5	6.4	320	3.57	17.5	0.1	<0.5	0.6	12	1.0	0.2	0.2	82	0.12	0.027
L12W 475S	Soil	1.0	18.7	29.2	314	0.5	12.3	9.0	491	4.26	20.5	0.2	<0.5	0.6	14	0.6	0.3	0.2	69	0.21	0.024
L12W 525S	Soil	1.5	37.8	61.4	573	0.7	26.4	17.4	791	5.32	21.2	0.4	<0.5	1.1	19	1.5	0.3	0.4	112	0.26	0.046
L12W 575S	Soil	1.1	22.8	44.1	456	0.5	15.3	16.4	2369	4.68	20.8	0.2	3.3	0.3	26	2.2	0.4	0.3	85	0.34	0.048
L12W 625S	Soil	1.0	51.3	57.2	378	0.5	22.0	15.5	1151	4.78	32.0	0.3	0.9	0.4	19	0.9	0.5	0.3	89	0.21	0.063
L12W 675S	Soil	1.0	51.9	42.7	536	0.5	17.4	19.0	3892	4.22	20.7	0.2	<0.5	0.3	44	6.2	0.4	0.2	86	0.84	0.111
L12W 725S	Soil	1.2	73.1	36.2	626	1.2	22.6	18.1	1783	4.63	25.2	0.4	<0.5	0.4	35	4.9	0.4	0.2	100	0.64	0.057
L14W 025N	Soil	1.3	15.6	79.3	522	0.2	13.7	17.3	2481	5.08	20.8	0.2	<0.5	0.9	20	2.1	0.2	0.2	102	0.25	0.045
L14W 075N	Soil	1.3	20.6	53.7	844	1.0	19.4	16.0	777	4.90	40.3	0.3	<0.5	0.8	23	2.0	0.4	0.3	83	0.30	0.037
L14W 125N	Soil	1.1	35.8	51.2	2357	1.4	18.5	13.6	1155	4.26	25.2	0.2	0.7	0.7	22	4.5	0.5	0.3	77	0.30	0.026
L14W 175N	Soil	1.1	46.7	48.2	1098	0.5	15.6	15.0	2577	3.66	14.2	0.2	1.0	0.4	30	7.1	0.5	0.3	57	0.58	0.040
L14W 225N	Soil	1.0	43.9	62.7	1184	1.1	14.7	13.2	2990	3.49	13.7	0.3	<0.5	0.7	22	4.1	0.5	0.2	56	0.47	0.060
L14W 275N	Soil	0.9	27.2	41.1	588	0.3	13.9	11.4	783	3.68	15.8	0.2	2.3	0.5	16	0.8	0.3	0.2	68	0.26	0.071
L14W 325N	Soil	1.0	13.0	34.8	459	0.2	9.6	10.5	1621	3.05	7.4	0.2	1.2	0.3	16	1.0	0.2	0.3	68	0.29	0.050
L14W 375N	Soil	1.0	28.8	24.9	439	0.6	13.9	9.4	820	3.56	20.4	0.3	0.9	0.4	14	0.8	0.5	0.3	63	0.23	0.031
L14W 425N	Soil	1.3	24.2	41.4	461	0.6	11.7	11.0	731	3.59	21.1	0.3	0.6	0.4	13	1.3	0.5	0.4	61	0.21	0.050
L14W 475N	Soil	1.5	29.8	36.6	408	0.4	15.0	10.6	599	3.94	23.9	0.2	<0.5	0.4	15	1.0	0.7	0.3	68	0.23	0.061

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CERTIFICATE OF ANALYSIS SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L12W 125S	Soil	11	33	0.83	145	0.018	<20	3.15	0.008	0.07	<0.1	0.05	5.7	0.2	<0.05	8	<0.5	<0.2
L12W 175S	Soil	7	28	0.71	125	0.031	<20	2.60	0.007	0.06	<0.1	0.03	4.5	0.1	<0.05	8	<0.5	<0.2
L12W 225S	Soil	7	20	0.36	120	0.045	<20	3.45	0.008	0.06	<0.1	0.07	4.3	0.1	<0.05	11	<0.5	<0.2
L12W 275S	Soil	7	22	0.40	129	0.044	<20	1.91	0.005	0.05	<0.1	0.03	3.3	<0.1	<0.05	8	<0.5	<0.2
L12W 325S	Soil	7	22	0.41	102	0.042	<20	2.06	0.005	0.06	<0.1	0.04	3.0	<0.1	<0.05	8	<0.5	<0.2
L12W 375S	Soil	31	45	0.74	206	0.015	<20	3.82	0.010	0.10	<0.1	0.26	22.9	0.2	<0.05	9	1.4	<0.2
L12W 425S	Soil	6	19	0.39	60	0.025	<20	1.59	0.006	0.03	<0.1	0.01	2.9	<0.1	<0.05	7	<0.5	<0.2
L12W 475S	Soil	7	21	0.71	55	0.018	<20	2.05	0.004	0.03	<0.1	0.02	3.2	<0.1	<0.05	7	<0.5	<0.2
L12W 525S	Soil	10	36	0.95	123	0.063	<20	2.93	0.007	0.10	<0.1	0.03	4.2	<0.1	<0.05	10	<0.5	<0.2
L12W 575S	Soil	6	26	0.58	147	0.036	<20	2.39	0.007	0.07	<0.1	0.03	3.5	<0.1	<0.05	9	<0.5	<0.2
L12W 625S	Soil	9	34	0.84	108	0.034	<20	3.18	0.007	0.09	<0.1	0.03	6.2	0.1	<0.05	8	0.6	<0.2
L12W 675S	Soil	8	27	0.59	257	0.041	<20	2.28	0.008	0.10	<0.1	0.03	4.7	<0.1	0.09	7	<0.5	<0.2
L12W 725S	Soil	17	35	0.80	172	0.035	<20	2.99	0.010	0.09	<0.1	0.04	9.1	<0.1	<0.05	8	0.7	<0.2
L14W 025N	Soil	8	23	0.40	158	0.042	<20	2.63	0.007	0.07	<0.1	0.03	4.6	0.1	<0.05	10	<0.5	<0.2
L14W 075N	Soil	7	27	0.61	80	0.050	<20	2.58	0.006	0.06	<0.1	0.05	3.7	<0.1	<0.05	9	<0.5	<0.2
L14W 125N	Soil	6	26	0.69	91	0.047	<20	2.34	0.006	0.06	<0.1	0.03	4.1	<0.1	<0.05	7	0.5	<0.2
L14W 175N	Soil	6	22	0.65	108	0.031	<20	1.83	0.005	0.10	<0.1	0.02	3.4	<0.1	<0.05	6	0.5	<0.2
L14W 225N	Soil	8	22	0.66	188	0.044	<20	1.94	0.007	0.06	<0.1	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2
L14W 275N	Soil	6	20	0.59	140	0.028	<20	2.38	0.006	0.06	0.1	0.03	3.1	0.1	<0.05	7	0.5	<0.2
L14W 325N	Soil	6	16	0.39	158	0.021	<20	1.64	0.005	0.05	<0.1	0.06	2.3	<0.1	<0.05	7	0.5	<0.2
L14W 375N	Soil	6	20	0.65	89	0.020	<20	1.88	0.006	0.04	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
L14W 425N	Soil	6	18	0.50	74	0.024	<20	1.98	0.006	0.05	<0.1	0.04	2.9	<0.1	<0.05	5	<0.5	<0.2
L14W 475N	Soil	6	23	0.74	81	0.024	<20	1.86	0.005	0.05	0.2	0.02	3.3	<0.1	<0.05	6	0.7	<0.2

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QUALITY CONTROL REPORT SMI10000490.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
L0 275N	Soil	0.4	13.5	12.2	69	<0.1	2.9	2.0	159	1.04	2.0	0.2	1.0	<0.1	20	0.4	<0.1	0.2	31	0.23	0.051
REP L0 275N	QC	0.4	13.5	12.1	66	<0.1	2.6	1.9	162	1.03	1.9	0.2	<0.5	<0.1	21	0.4	<0.1	0.3	31	0.24	0.050
L1W 625S	Soil	6.4	103.9	70.6	1442	1.7	14.7	15.4	3954	3.61	31.0	0.5	1.6	0.1	68	9.9	0.8	0.3	64	1.10	0.137
REP L1W 625S	QC	6.0	104.6	69.8	1384	1.7	15.1	15.2	3671	3.65	30.1	0.5	1.0	0.2	62	9.1	0.8	0.4	68	1.08	0.146
L2W 175S	Soil	1.8	849.9	236.7	7643	2.5	29.2	16.9	3639	4.68	25.3	1.4	10.8	0.8	44	23.7	0.9	0.9	136	1.11	0.289
REP L2W 175S	QC	1.9	886.6	240.6	7690	2.7	28.4	16.6	3700	4.60	25.8	1.4	11.4	0.8	45	24.8	0.9	1.0	131	1.14	0.288
L3W 050N	Soil	1.4	18.4	72.9	881	0.8	9.7	10.7	710	4.16	21.9	0.2	1.7	0.6	9	1.5	0.2	0.6	64	0.09	0.028
REP L3W 050N	QC	1.4	18.6	72.2	905	0.9	9.6	11.7	726	4.23	22.7	0.1	2.0	0.7	9	1.4	0.2	0.6	67	0.09	0.029
L5W 125S	Soil	3.4	75.0	217.5	2548	1.4	19.9	17.9	4498	4.76	51.3	0.7	36.5	1.0	18	11.6	0.4	1.9	102	0.17	0.085
REP L5W 125S	QC	3.1	73.4	208.7	2494	1.5	19.4	17.1	4281	4.66	50.5	0.7	103.2	1.0	17	10.5	0.4	1.9	101	0.17	0.085
L5W 225N	Soil	1.6	24.8	46.0	875	0.7	11.0	10.2	1141	4.47	21.5	0.2	0.8	0.2	24	2.9	0.4	0.9	66	0.21	0.068
REP L5W 225N	QC	1.4	22.8	44.7	846	0.7	11.3	10.1	1093	4.31	20.3	0.2	0.6	0.2	23	2.9	0.3	0.9	64	0.20	0.064
L7W 300S	Soil	1.6	22.6	32.2	309	0.2	13.2	8.0	410	4.32	32.5	0.2	1.3	0.4	15	0.8	0.6	0.2	90	0.17	0.034
REP L7W 300S	QC	1.7	22.3	32.8	315	0.2	14.2	8.4	420	4.33	31.7	0.2	<0.5	0.4	15	0.8	0.6	0.3	91	0.16	0.034
L8W 275S	Soil	1.7	141.8	85.4	831	2.1	27.7	15.8	2110	4.49	29.2	0.8	1.1	0.7	47	3.1	0.3	0.2	81	0.81	0.060
REP L8W 275S	QC	1.8	144.8	84.8	850	2.0	29.1	16.7	2212	4.66	29.8	0.8	0.8	0.7	49	3.1	0.4	0.2	83	0.77	0.057
L9W 200N	Soil	1.6	48.0	65.7	905	0.4	12.5	14.8	1733	4.30	37.6	0.2	0.9	0.2	20	2.6	0.7	0.8	64	0.32	0.057
REP L9W 200N	QC	1.8	47.6	65.0	908	0.3	14.1	15.7	1745	4.37	37.6	0.2	1.3	0.2	20	2.6	0.8	0.9	66	0.31	0.054
L10W 025S	Soil	1.8	52.4	98.8	1169	0.8	13.8	14.8	1323	4.00	34.8	0.4	0.7	0.3	19	4.6	0.4	0.3	84	0.32	0.058
REP L10W 025S	QC	2.0	53.2	99.1	1124	0.9	15.3	15.2	1398	4.14	35.5	0.4	3.1	0.3	19	4.8	0.4	0.4	85	0.33	0.057
L12W 325N	Soil	1.0	39.4	18.1	213	0.1	19.6	10.4	655	3.21	18.9	0.2	1.0	0.6	23	0.8	0.5	0.3	59	0.40	0.039
REP L12W 325N	QC	1.0	38.2	17.2	209	0.1	19.1	10.0	627	3.09	18.4	0.2	17.8	0.6	23	0.8	0.5	0.2	57	0.37	0.037
L14W 375N	Soil	1.0	28.8	24.9	439	0.6	13.9	9.4	820	3.56	20.4	0.3	0.9	0.4	14	0.8	0.5	0.3	63	0.23	0.031
REP L14W 375N	QC	1.0	27.5	24.1	433	0.6	13.0	9.2	797	3.50	19.8	0.2	<0.5	0.4	14	0.8	0.5	0.3	60	0.22	0.030
Reference Materials																					
STD DS7	Standard	20.8	98.7	61.1	380	1.0	52.7	8.9	595	2.25	45.9	4.5	80.9	3.8	68	6.0	4.8	4.2	79	0.86	0.075
STD DS7	Standard	22.1	120.9	70.6	416	1.0	56.9	9.5	620	2.38	52.6	5.2	55.6	4.6	77	7.3	5.8	5.2	84	0.96	0.076
STD DS7	Standard	19.9	103.0	59.3	368	1.0	53.0	8.5	581	2.18	48.1	4.1	57.1	3.5	64	5.6	4.2	3.7	84	0.87	0.066

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	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
L0 275N	Soil	9	8	0.17	115	0.008	<20	1.29	0.006	0.05	<0.1	0.03	0.9	<0.1	<0.05	7	<0.5	<0.2
REP L0 275N	QC	9	8	0.18	116	0.008	<20	1.31	0.006	0.06	<0.1	0.03	0.8	<0.1	<0.05	7	<0.5	<0.2
L1W 625S	Soil	12	23	0.51	167	0.012	<20	2.43	0.009	0.08	<0.1	0.10	3.0	<0.1	0.09	6	0.6	<0.2
REP L1W 625S	QC	12	24	0.56	175	0.013	<20	2.76	0.010	0.08	<0.1	0.10	3.1	0.1	0.12	6	0.8	<0.2
L2W 175S	Soil	69	37	0.82	112	0.062	<20	2.58	0.011	0.09	<0.1	0.34	7.9	<0.1	<0.05	7	2.0	<0.2
REP L2W 175S	QC	71	34	0.80	113	0.057	<20	2.53	0.010	0.08	<0.1	0.35	7.5	<0.1	<0.05	7	1.8	<0.2
L3W 050N	Soil	6	16	0.45	64	0.011	<20	1.93	0.003	0.04	<0.1	0.03	2.6	<0.1	<0.05	7	<0.5	<0.2
REP L3W 050N	QC	6	17	0.47	64	0.011	<20	2.00	0.004	0.04	<0.1	0.04	2.7	<0.1	<0.05	8	<0.5	<0.2
L5W 125S	Soil	33	27	0.54	114	0.053	<20	3.39	0.006	0.06	0.1	0.20	4.9	<0.1	<0.05	9	<0.5	<0.2
REP L5W 125S	QC	32	27	0.52	111	0.056	<20	3.19	0.005	0.05	0.1	0.20	4.7	<0.1	<0.05	9	<0.5	<0.2
L5W 225N	Soil	6	19	0.46	122	0.018	<20	2.16	0.003	0.06	<0.1	0.06	2.2	0.1	<0.05	6	<0.5	<0.2
REP L5W 225N	QC	6	18	0.45	121	0.016	<20	2.04	0.003	0.06	<0.1	0.06	2.2	<0.1	<0.05	6	<0.5	<0.2
L7W 300S	Soil	5	23	0.61	116	0.024	<20	1.82	0.005	0.04	0.1	0.03	3.4	<0.1	<0.05	7	<0.5	<0.2
REP L7W 300S	QC	5	23	0.61	114	0.023	<20	1.82	0.005	0.04	<0.1	<0.01	3.0	<0.1	<0.05	7	<0.5	<0.2
L8W 275S	Soil	32	39	0.87	234	0.005	<20	3.69	0.009	0.10	<0.1	0.10	11.8	0.2	<0.05	10	0.5	<0.2
REP L8W 275S	QC	31	39	0.91	237	0.006	<20	3.83	0.011	0.11	<0.1	0.10	12.0	0.2	<0.05	10	<0.5	<0.2
L9W 200N	Soil	7	21	0.68	101	0.019	<20	2.11	0.005	0.08	<0.1	0.02	3.0	<0.1	0.06	6	<0.5	<0.2
REP L9W 200N	QC	7	22	0.68	103	0.018	<20	2.14	0.006	0.08	<0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
L10W 025S	Soil	11	25	0.52	118	0.024	<20	2.30	0.007	0.05	<0.1	0.04	3.6	0.1	<0.05	8	<0.5	<0.2
REP L10W 025S	QC	11	26	0.53	117	0.025	<20	2.29	0.006	0.06	<0.1	0.03	3.7	<0.1	<0.05	8	<0.5	<0.2
L12W 325N	Soil	7	24	0.63	106	0.027	<20	1.58	0.007	0.07	<0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
REP L12W 325N	QC	7	23	0.60	109	0.027	<20	1.51	0.006	0.06	<0.1	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
L14W 375N	Soil	6	20	0.65	89	0.020	<20	1.88	0.006	0.04	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
REP L14W 375N	QC	6	19	0.62	82	0.020	<20	1.83	0.003	0.04	<0.1	0.02	3.1	<0.1	<0.05	5	0.6	<0.2
Reference Materials																		
STD DS7	Standard	11	172	1.02	392	0.112	30	1.00	0.097	0.44	3.3	0.21	2.3	3.8	0.20	5	3.3	0.9
STD DS7	Standard	13	181	1.01	411	0.146	33	1.00	0.101	0.49	3.3	0.20	2.9	4.1	0.17	5	3.3	1.2
STD DS7	Standard	11	194	0.98	371	0.110	38	0.91	0.089	0.42	3.3	0.19	2.1	3.9	0.19	4	3.1	1.2

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Project: Grouse Mountain
Report Date: September 14, 2010

QUALITY CONTROL REPORT SMI10000490.1

		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS7	Standard	18.5	143.7	59.4	386	1.0	50.6	8.4	580	2.21	48.1	3.9	58.3	3.5	61	5.4	4.2	3.8	79	0.84	0.071
STD DS7	Standard	19.6	101.0	59.1	371	0.9	54.3	9.0	584	2.29	50.0	4.0	53.9	4.0	63	5.6	4.2	3.9	82	0.88	0.069
STD DS7	Standard	20.4	141.5	67.9	379	1.0	53.5	8.8	569	2.40	45.1	4.8	167.2	4.5	65	5.5	4.0	4.3	82	0.85	0.065
STD DS7	Standard	20.7	102.1	60.6	378	0.9	51.1	8.9	583	2.25	49.4	4.3	52.5	4.1	66	5.4	4.6	4.1	80	0.89	0.073
STD DS7	Standard	21.2	114.6	70.8	388	1.1	55.3	9.1	594	2.28	48.7	5.1	73.1	5.1	70	5.9	4.7	4.5	86	0.88	0.072
STD DS7	Standard	21.4	108.2	68.0	413	0.9	57.6	9.6	645	2.41	50.0	4.8	61.2	4.5	71	5.9	4.1	4.6	88	0.99	0.073
STD DS7	Standard	20.7	105.6	63.9	398	1.1	55.3	9.7	640	2.43	50.4	4.6	68.5	4.5	74	6.9	4.3	4.7	84	0.98	0.079
STD DS7	Standard	20.4	106.0	70.3	406	1.1	56.1	9.4	619	2.40	53.6	4.8	60.6	4.3	73	6.2	5.1	4.8	80	0.93	0.076
STD DS7	Standard	22.8	123.7	76.0	422	1.0	60.5	10.6	649	2.43	48.9	4.9	56.2	4.9	76	6.4	5.0	4.9	86	0.97	0.073
STD OREAS45PA	Standard	0.9	542.5	16.4	107	0.3	255.2	95.0	972	15.38	5.1	1.1	45.9	5.7	12	0.1	0.1	0.2	195	0.21	0.032
STD OREAS45PA	Standard	1.0	607.1	19.2	119	0.3	288.5	108.1	1048	15.92	5.2	1.2	49.2	7.0	16	0.1	0.1	0.2	181	0.23	0.032
STD OREAS45PA	Standard	0.8	575.7	15.9	99	0.3	268.8	97.9	930	15.12	4.2	1.0	44.7	5.6	11	<0.1	0.1	0.1	205	0.20	0.029
STD OREAS45PA	Standard	0.8	530.0	15.9	96	0.3	246.3	92.2	928	14.91	4.1	1.0	43.8	5.8	11	<0.1	0.2	0.2	193	0.20	0.030
STD OREAS45PA	Standard	0.9	599.3	15.6	103	0.3	273.4	97.7	972	15.38	4.1	1.0	44.6	5.6	11	<0.1	0.1	0.1	197	0.20	0.029
STD OREAS45PA	Standard	0.9	562.1	19.2	101	0.3	270.7	92.9	941	16.97	3.8	1.2	44.8	6.9	12	<0.1	<0.1	0.2	197	0.20	0.027
STD OREAS45PA	Standard	0.9	610.1	16.4	109	0.3	273.2	96.1	1003	14.69	4.2	1.1	38.7	5.8	12	0.1	0.1	0.2	193	0.21	0.030
STD OREAS45PA	Standard	0.9	596.4	19.5	94	0.3	274.0	94.9	929	14.25	3.6	1.2	45.1	6.9	12	<0.1	<0.1	0.2	200	0.20	0.028
STD OREAS45PA	Standard	0.8	656.1	18.4	119	0.3	299.4	111.3	1096	16.48	4.2	1.2	47.9	6.3	12	0.1	<0.1	0.2	216	0.23	0.032
STD OREAS45PA	Standard	0.7	550.8	17.5	108	0.3	266.0	98.7	1004	15.71	4.1	1.1	47.3	6.2	13	0.1	<0.1	0.2	195	0.21	0.031
STD OREAS45PA	Standard	1.0	537.6	17.2	109	0.3	255.6	97.0	1026	15.16	4.9	1.1	49.0	6.1	13	0.1	0.2	0.1	190	0.22	0.033
STD OREAS45PA	Standard	1.0	666.4	20.1	123	0.3	325.6	112.9	1143	16.40	4.4	1.2	46.6	7.1	15	<0.1	<0.1	0.2	219	0.24	0.032
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
STD OREAS45PA Expected		0.9	600	19	119	0.3	281	104	1130	16.559	4.2	1.2	43	6	14	0.09	0.13	0.18	221	0.2411	0.034
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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QUALITY CONTROL REPORT SMI10000490.1

		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS7	Standard	11	168	1.01	355	0.106	31	0.96	0.086	0.43	3.2	0.19	2.1	3.6	0.20	4	2.7	1.1
STD DS7	Standard	11	186	0.95	389	0.104	28	0.94	0.086	0.44	3.1	0.23	2.1	4.0	0.16	4	3.1	1.3
STD DS7	Standard	12	176	0.95	355	0.120	28	0.92	0.083	0.41	3.0	0.23	2.4	3.8	0.15	5	2.6	1.1
STD DS7	Standard	12	191	1.01	380	0.109	42	0.98	0.095	0.43	3.2	0.21	2.4	3.8	0.18	5	3.1	1.5
STD DS7	Standard	13	200	1.03	391	0.124	34	0.98	0.096	0.48	3.0	0.22	2.5	3.9	0.16	4	3.0	1.2
STD DS7	Standard	13	196	1.06	421	0.122	49	1.04	0.104	0.48	3.2	0.22	2.5	4.3	0.24	5	3.0	1.6
STD DS7	Standard	12	188	1.07	404	0.126	35	1.07	0.100	0.45	3.0	0.21	2.4	4.3	0.19	5	3.4	1.7
STD DS7	Standard	12	194	1.05	418	0.118	44	0.99	0.105	0.46	3.5	0.22	2.8	4.3	0.20	5	3.4	0.8
STD DS7	Standard	13	204	1.09	410	0.133	34	1.06	0.092	0.47	3.7	0.24	2.4	4.3	0.22	5	3.2	1.8
STD OREAS45PA	Standard	14	774	0.09	165	0.117	<20	2.89	0.009	0.07	<0.1	0.03	36.5	<0.1	<0.05	16	1.0	<0.2
STD OREAS45PA	Standard	16	705	0.12	181	0.152	<20	3.15	0.014	0.07	<0.1	0.03	48.9	<0.1	<0.05	17	1.3	<0.2
STD OREAS45PA	Standard	14	819	0.10	158	0.111	<20	2.84	0.010	0.07	<0.1	0.03	33.4	<0.1	<0.05	14	0.5	<0.2
STD OREAS45PA	Standard	13	754	0.10	155	0.110	<20	2.86	0.010	0.07	<0.1	0.03	34.4	<0.1	<0.05	15	<0.5	<0.2
STD OREAS45PA	Standard	14	800	0.10	162	0.115	<20	3.02	0.011	0.07	<0.1	0.03	35.2	<0.1	<0.05	15	0.6	<0.2
STD OREAS45PA	Standard	15	778	0.10	162	0.127	<20	2.89	0.008	0.06	<0.1	0.03	38.3	<0.1	<0.05	15	0.6	<0.2
STD OREAS45PA	Standard	14	789	0.10	161	0.119	<20	3.02	0.010	0.07	<0.1	0.03	38.9	<0.1	<0.05	16	0.9	<0.2
STD OREAS45PA	Standard	15	788	0.10	167	0.126	<20	2.85	0.008	0.07	<0.1	0.02	38.9	<0.1	<0.05	15	0.6	<0.2
STD OREAS45PA	Standard	15	902	0.10	175	0.138	<20	3.48	0.011	0.08	<0.1	0.03	43.9	<0.1	<0.05	17	<0.5	<0.2
STD OREAS45PA	Standard	15	755	0.10	173	0.117	<20	3.24	0.010	0.07	<0.1	0.02	38.2	<0.1	<0.05	16	0.6	<0.2
STD OREAS45PA	Standard	14	734	0.10	179	0.116	<20	2.90	0.011	0.07	<0.1	0.02	38.4	<0.1	<0.05	16	<0.5	<0.2
STD OREAS45PA	Standard	17	909	0.12	185	0.144	<20	3.49	0.012	0.08	<0.1	0.03	42.2	<0.1	<0.05	18	0.6	0.3
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
STD OREAS45PA Expected		16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	43	0.07	0.03	16.8	0.54	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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QUALITY CONTROL REPORT SMI10000490.1

		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: **Bard Ventures Ltd.**
Suite 800 - 1199 W. Hastings Street
Vancouver BC V6E 3T5 Canada

Submitted By: Email Distribution List
Receiving Lab: Canada-Smithers
Received: September 08, 2010
Report Date: October 04, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS SMI10000535.2

CLIENT JOB INFORMATION

Project: Grouse Mountain
Shipment ID: 2010-2
P.O. Number
Number of Samples: 1

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	1	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1E	1	4 Acid digestion ICP-ES analysis	0.25	Completed	VAN
7TD1	1	4 Acid Digestion ICP-ES analyis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Version 2: 7TD Cu Zn included

Invoice To: Bard Ventures Ltd.
Suite 800 - 1199 W. Hastings Street
Vancouver BC V6E 3T5
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

Acme Analytical Laboratories (Vancouver) Ltd.
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Suite 800 - 1199 W. Hastings Street
Vancouver BC V6E 3T5 Canada

Project: Grouse Mountain
Report Date: October 04, 2010

CERTIFICATE OF ANALYSIS SMI10000535.2

	Method	WGHT	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	2	5	2	0.5	2	2	5	0.01	5	20	4	2	2	0.4	5	5	2	0.01
18651	Rock	0.94	5	>10000	203	>10000	110.5	16	50	723	9.82	184	<20	<4	<2	7	1152	7	<5	16	0.03

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Project: Grouse Mountain
Report Date: October 04, 2010

CERTIFICATE OF ANALYSIS SMI10000535.2

	Method	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	7TD	7TD
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	S	Cu	Zn
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
	MDL	0.002	2	2	0.01	1	0.01	0.01	0.01	0.01	4	2	2	2	2	1	1	0.1	0.001	0.01
18651	Rock	0.011	5	10	0.14	19	0.04	1.07	0.02	0.32	<4	6	<2	<2	<2	<1	3	15.6	1.003	17.75

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Vancouver BC V6E 3T5 Canada

Project: Grouse Mountain
Report Date: October 04, 2010

QUALITY CONTROL REPORT SMI10000535.2

	Method	WGHT	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	2	5	2	0.5	2	2	5	0.01	5	20	4	2	2	0.4	5	5	2	0.01
Pulp Duplicates																					
REP G1	QC		<2	2	25	40	<0.5	3	5	780	2.32	<5	<20	<4	8	719	<0.4	<5	<5	51	2.42
Reference Materials																					
STD OREAS131A	Standard																				
STD OREAS24P	Standard		3	48	16	89	<0.5	145	44	1099	7.10	<5	<20	<4	<2	396	1.1	<5	<5	160	5.48
STD OREAS45P	Standard		6	772	20	237	<0.5	399	125	1307	18.34	9	<20	5	9	34	0.8	<5	<5	276	0.30
STD R4T	Standard																				
STD SU-1B	Standard																				
STD OREAS24P Expected			1.5	52	2.9	119	0.06	141	44	1100	7.53	1.2	0.75		2.85	403	0.15	0.09		158	5.83
STD OREAS45P Expected			2.1	749	22	141	0.32	385	120	1338	19.22	12	2.2	0.055	9.8	32.6	0.2	0.82	0.21	267	0.3
STD R4T Expected																					
STD OREAS131A Expected																					
STD SU-1B Expected																					
BLK	Blank		<2	<2	<5	<2	<0.5	<2	<2	<5	<0.01	<5	<20	<4	<2	<2	<0.4	<5	<5	<2	<0.01
BLK	Blank																				
Prep Wash																					
G1	Prep Blank		<2	3	28	34	<0.5	3	5	750	2.27	<5	<20	<4	7	700	<0.4	<5	<5	50	2.35
G1	Prep Blank																				
G1	Prep Blank		<2	<2	18	36	<0.5	3	5	785	2.34	<5	<20	<4	9	724	<0.4	<5	<5	51	2.41

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Suite 800 - 1199 W. Hastings Street
Vancouver BC V6E 3T5 Canada

Project: Grouse Mountain
Report Date: October 04, 2010

QUALITY CONTROL REPORT SMI10000535.2

	Method	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	7TD	7TD
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	S	Cu	Zn
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
	MDL	0.002	2	2	0.01	1	0.01	0.01	0.01	0.01	4	2	2	2	2	1	1	0.1	0.001	0.01
Pulp Duplicates																				
REP G1	QC	0.087	22	9	0.62	1110	0.24	7.34	2.78	3.17	<4	12	<2	16	28	3	5	<0.1		
Reference Materials																				
STD OREAS131A	Standard																		0.033	2.84
STD OREAS24P	Standard	0.138	18	190	4.14	277	1.03	7.77	2.43	0.71	<4	130	<2	23	19	1	20	<0.1		
STD OREAS45P	Standard	0.048	25	1077	0.20	293	1.01	6.87	0.07	0.36	<4	153	6	15	18	1	69	<0.1		
STD R4T	Standard																		0.513	3.43
STD SU-1B	Standard																		1.212	0.03
STD OREAS24P Expected		0.136	17.4	196	4.13	285	1.1	7.66	2.34	0.7	0.5	141	1.6	21.3	21		20			
STD OREAS45P Expected		0.047	24.8	1089	0.1962	296	1.037	6.82	0.081	0.35	1.1	154	2.5	13	21.6		67	0.03		
STD R4T Expected																			0.502	3.376
STD OREAS131A Expected																			0.0322	2.83
STD SU-1B Expected																			1.185	0.0235
BLK	Blank	<0.002	<2	<2	<0.01	<1	<0.01	<0.01	<0.01	<0.01	<4	<2	<2	<2	<2	<1	<1	<0.1		
BLK	Blank																		<0.001	<0.01
Prep Wash																				
G1	Prep Blank	0.087	23	10	0.60	1104	0.24	7.19	2.77	3.15	<4	12	<2	15	27	3	5	<0.1	N.A.	N.A.
G1	Prep Blank																		N.A.	N.A.
G1	Prep Blank	0.089	25	9	0.63	1122	0.25	7.42	2.81	3.22	<4	12	<2	16	29	3	5	<0.1		

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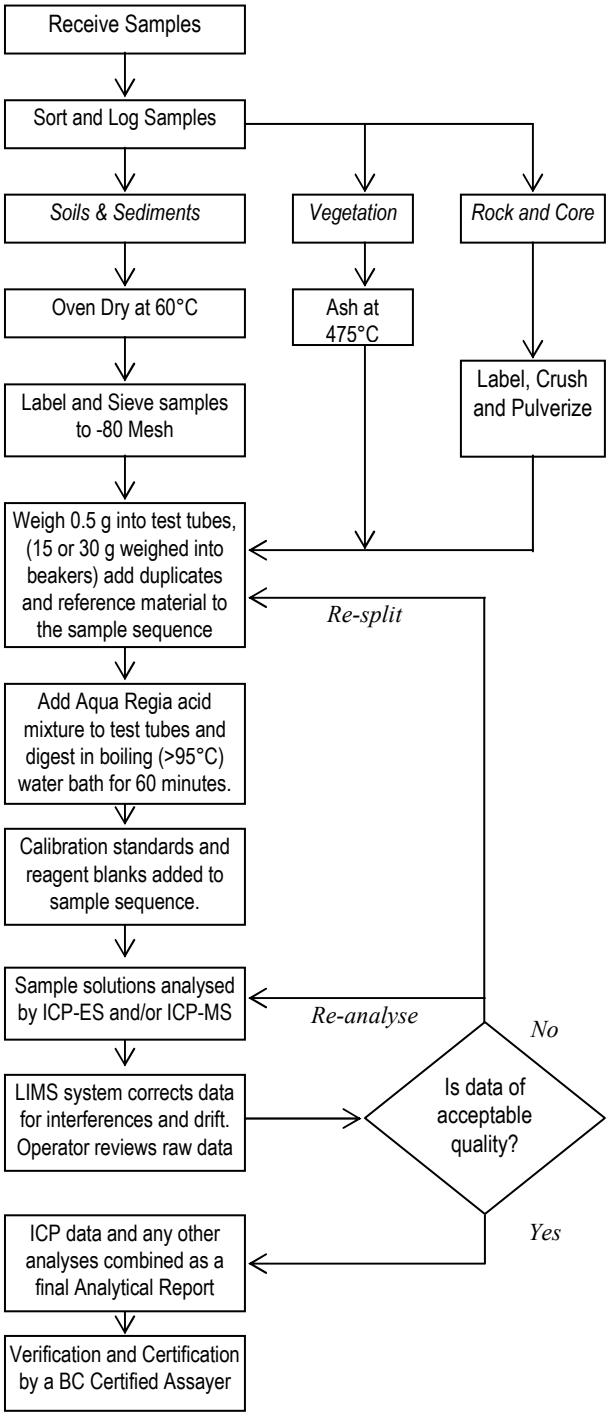
ISO 9001:2008
FM 63007

METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 1D & 1DX – ICP & ICP-MS ANALYSIS – AQUA REGIA

Analytical Process



Comments

Sample Preparation

All samples are dried at 60°C. Soil and sediment are sieved to -80 mesh (-180 μm). Moss-mats are disaggregated then sieved to yield -80 mesh sediment. Vegetation is pulverized or ashed (475°C). Rock and drill core is jaw crushed to 80% passing 10 mesh (2 mm), a 250 g riffle split is then pulverized to 85% passing 200 mesh (75 μm) in a mild-steel ring-and-puck mill. Pulp splits of 0.5 g are weighed into test tubes, 15 and 30 g splits are weighed into beakers.

Sample Digestion

A modified Aqua Regia solution of equal parts concentrated ACS grade HCl and HNO_3 and de-mineralised H_2O is added to each sample to leach for one hour in a heating block or hot water bath (>95°C). After cooling the solution is made up to final volume with 5% HCl. Sample weight to solution volume is 1 g per 20 mL.

Sample Analysis

Group 1D: solutions aspirated into a Spectro Ciros Vision or Varian 735 emission spectrometer are analysed for 30 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

Group 1DX: solutions aspirated into a Perkin Elmer Elan 6000/9000 ICP mass spectrometer are analysed for 36 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, *Ga*, *Hg*, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, *S*, Sb, *Sc*, *Se*, *Tl*, Sr, Th, Ti, U, V, W, Zn.

Quality Control and Data Verification

QA/QC protocol incorporates a sample-prep blank (G-1) as the first sample in the job which is carried through all stages of preparation to analysis. An Analytical Batch comprises 36 client samples and incorporates a pulp duplicate to monitor analytical precision, a -10 mesh rejects duplicate to monitor sub-sampling variation (drill core only), a reagent blank to measure background and aliquots of in-house Reference Material like STD DS7. Data undergoes a final verification by a British Columbia Certified Assayer who then validates results before it is released to the client.

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Phone (604) 253 3158 Fax (604) 253 1716 e-mail: acmeinfo@acmelab.com

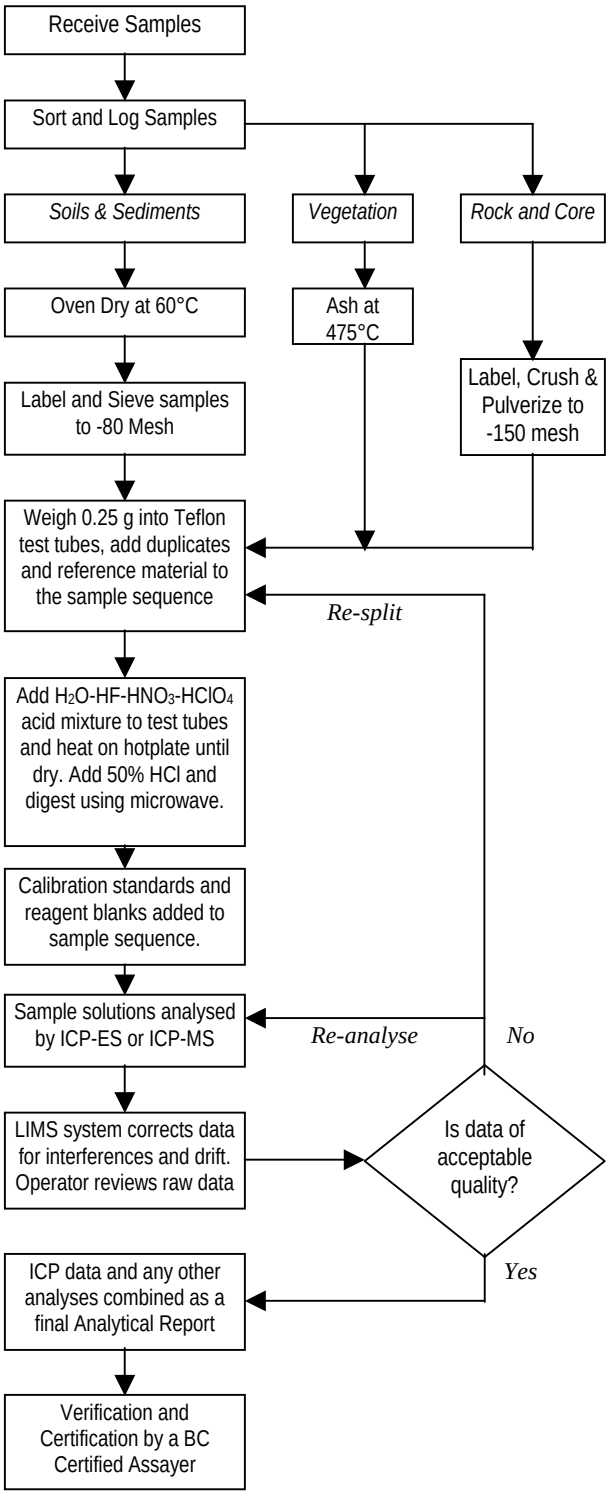
Group 1D, 1DX ICP-ES & ICP-MS DETECTION LIMITS

	Group 1D Detection	Group 1DX Detection	Upper Limit
Ag	0.3 ppm	0.1 ppm	100 ppm
Al*	0.01 %	0.01 %	10 %
As	2 ppm	0.5 ppm	10000 ppm
Au	2 ppm	0.5 ppb	100 ppm
B*^	20 ppm	20 ppm	2000 ppm
Ba*	1 ppm	1 ppm	10000 ppm
Bi	3 ppm	0.1 ppm	2000 ppm
Ca*	0.01 %	0.01 %	40 %
Cd	0.5 ppm	0.1 ppm	2000 ppm
Co	1 ppm	0.1 ppm	2000 ppm
Cr*	1 ppm	1 ppm	10000 ppm
Cu	1 ppm	0.1 ppm	10000 ppm
Fe*	0.01 %	0.01 %	40 %
Ga*	-	1 ppm	1000 ppm
Hg	1 ppm	0.01 ppm	100 ppm
K*	0.01 %	0.01 %	10 %
La*	1 ppm	1 ppm	10000 ppm
Mg*	0.01 %	0.01 %	30 %
Mn*	2 ppm	1 ppm	10000 ppm
Mo	1 ppm	0.1 ppm	2000 ppm
Na*	0.01 %	0.001 %	10 %
Ni	1 ppm	0.1 ppm	10000 ppm
P*	0.001 %	0.001 %	5 %
Pb	3 ppm	0.1 ppm	10000 ppm
S	-	0.05 %	10 %
Sb	3 ppm	0.1 ppm	2000 ppm
Sc	-	0.1 ppm	100 ppm
Se	-	0.5 ppm	100 ppm
Sr*	1 ppm	1 ppm	10000 ppm
Th*	2 ppm	0.1 ppm	2000 ppm
Ti*	0.01 %	0.001 %	10 %
Tl	5 ppm	0.1 ppm	1000 ppm
U*	8 ppm	0.1 ppm	2000 ppm
V*	1 ppm	2 ppm	10000 ppm
W*	2 ppm	0.1 ppm	100 ppm
Zn	1 ppm	1 ppm	10000 ppm

* Solubility of some elements will be limited by mineral species present.
^Detection limit = 1 ppm for 15g / 30g analysis.

METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE
GROUP 1E & 1EX – ICP & ICP-MS ANALYSIS – 4-ACID DIGESTION

Analytical Process



Comments

Sample Preparation

All samples are dried at 60°C. Soil and sediment are sieved to -80 mesh (-177 μm). Moss-mats are disaggregated then sieved to yield -80 mesh sediment. Vegetation is pulverized or ashed (475°C). Rock and drill core is jaw crushed to 70% passing 10 mesh (2 mm), a 250 g riffle split is then pulverized to 95% passing 150 mesh (100 μm) in a mild-steel ring-and-puck mill. Pulp splits of 0.25 g are weighed into Teflon test tubes.

Sample Digestion

A 10 mL aliquot of the acid solution (2:2:1:1 H_2O-HF-$HClO_4$-HNO_3) is added, heated until fuming on a hot plate and taken to dryness. A 4 mL aliquot of 50% HCl is added to the residue and heated using a microware. After cooling the solutions are transferred to polypropylene test-tubes and made to a 10 mL volume with 5% HCl.

Sample Analysis

Group 1E: solutions aspirated into a Jarrel Ash AtomComp 800 or 975 ICP or Spectro Ciros Vision emission spectrometer are analysed for 35 elements: Ag, Al, As, Au, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Sb, Sc, Sn, Sr, Th, Ti, U, V, W, Y, Zn and Zr.

Group 1EX: solutions aspirated into a Perkin Elmer Elan 6000 or 9000 ICP mass spectrometer are analysed for 41 elements: Ag, Al, As, Au, Ba, Be, Bi, Ca, Cd, *Ce*, Co, Cr, Cu, Fe, *Hf*, K, La, *Li*, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, *Rb*, *S*, Sb, Sc, Sn, Sr, *Ta*, Th, Ti, U, V, W, Y, Zn and Zr.

Quality Control and Data Verification

An Analytical Batch (1 page) comprises 33 samples. QA/QC protocol incorporates a sample-prep blank (SI or G-1) carried through all stages of preparation and analysis as the first sample, a pulp duplicate to monitor analytical precision, a -10 mesh rejects duplicate to monitor sub-sampling variation (drill core only), two reagent blanks to measure background and aliquots of in-house Standard Reference Materials like STD DST6 to monitor accuracy.

Raw and final data undergo a final verification by a British Columbia Certified Assayer who signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Leo Arciaga, Marcus Lau, Ken Kwok and Jacky Wang.

852 East Hastings Street • Vancouver • British Columbia • CANADA • V6A 1R6
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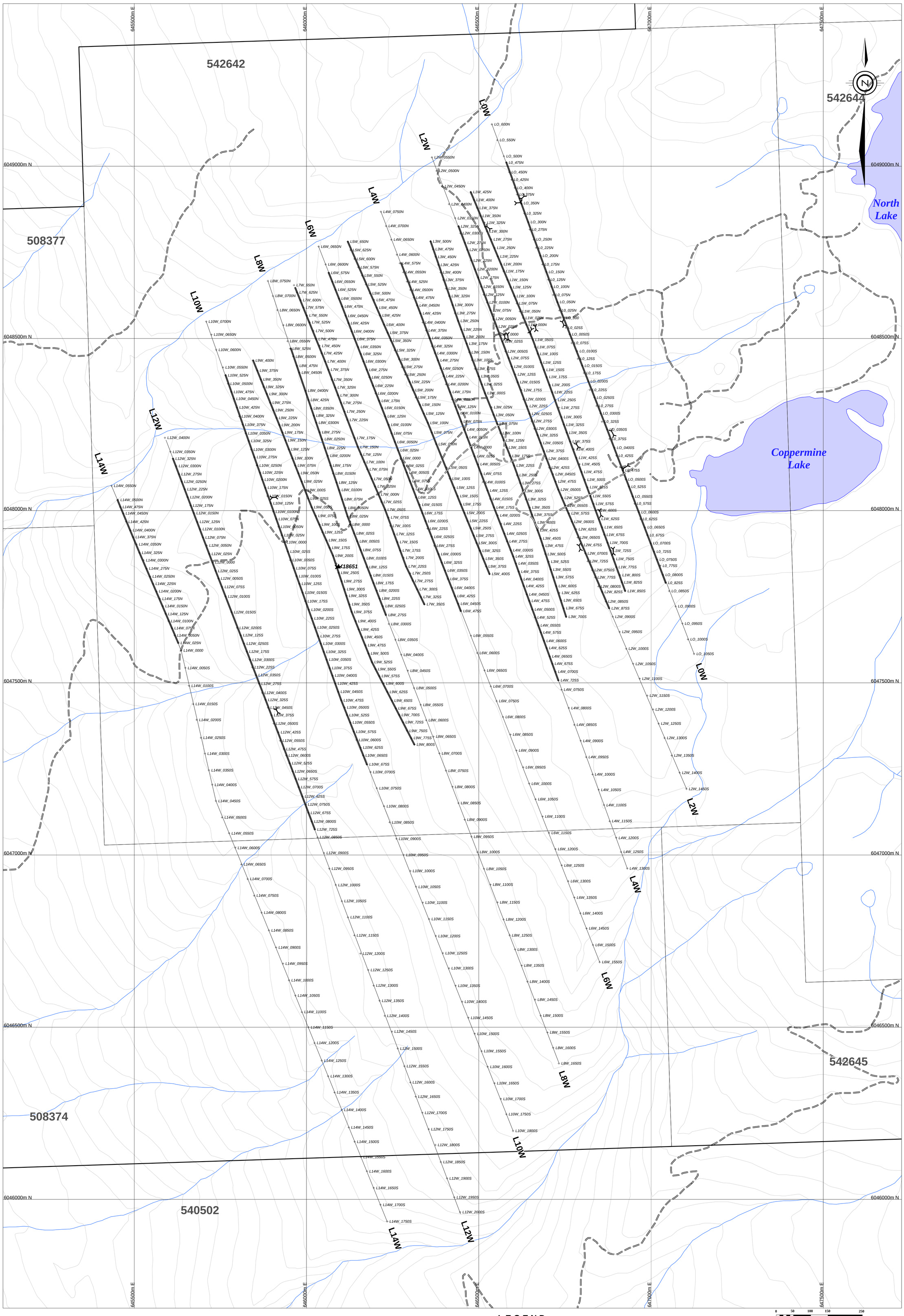
SECTION F: ILLUSTRATIONS

	Plan Number	Title	Scale
	GM-10-1 (after p. 3)	Location Map	1:8,000,000
	GM-10-2 (after p. 3)	Claim Map	1:50,000
	GM-10-3 (after p. 6)	Property Geology	1:35,000
	GM-10-4 (after p. 7)	2010 Geochem Survey Location Map	1:35,000
	GM-10-5 (in pocket)	2010 Soil and Rock Sample Location Map	1:5 000
	GM-10-6 (in pocket)	2010 Soil Grid Geology	1:5 000
	GM-10-7 (in pocket)	2010 Soil and Rock Geochemistry – Cu (ppm)	1:5 000
	GM-10-8 (in pocket)	2010 Soil and Rock Geochemistry – Mo (ppm)	1:5 000
	GM-10-9 (in pocket)	2010 Soil and Rock Geochemistry – Ag (ppm)	1:5 000
	GM-10-10 (in pocket)	2010 Soil and Rock Geochemistry – Zn (ppm)	1:5 000



LEGEND

- 2010 soil sampling
- 2009 soil sampling
- soil sample station
- sample number ▲ rock sample station
- road
- trench

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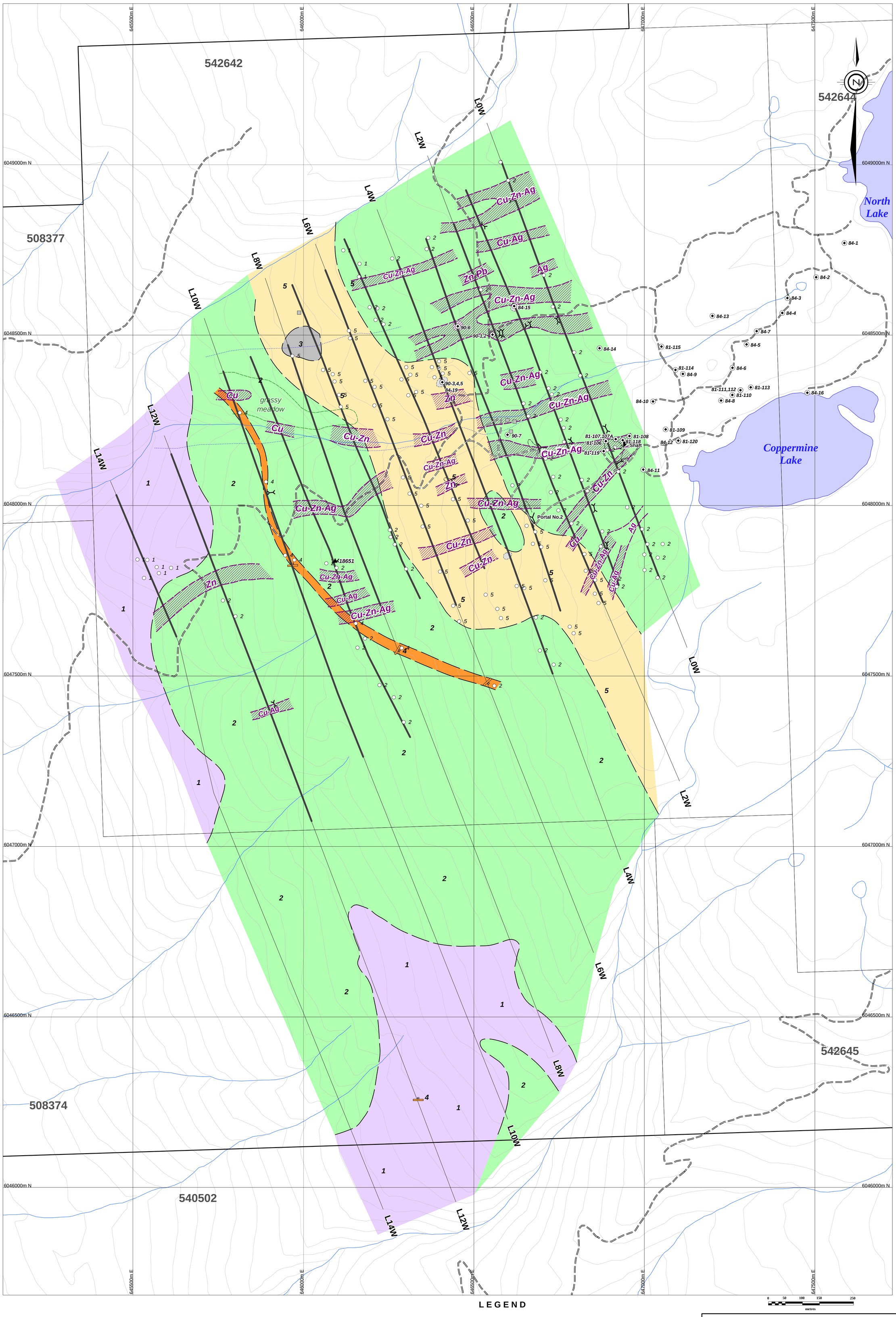
GROUSE MTN PROPERTY

Omineca Mining Division

Soil and Rock Sample Location Map

Date: Jan 27, 2010	Scale: 1:5,000	Figure: GM-10-5
Projection: UTM Zone 9 - NAD83	State/Province: BC	
Author: RK	File: GM10_SoilGrid_ass	



LEGEND

Lithology

5	Feldspar porphyry dyke
4	Grey v.f.g. monzodiorite dykes
3	Black argillite (thin bedded)
2	a) Tuffaceous greywackes (greyish green) b) Sharpstone breccia and sandstone
1	Green and maroon lapilli tuffs

- 2010 soil sampling
- 2009 soil sampling
- assumed geological contact
- mineralized trend
- sample number ▲ rock sample station
- outcrop
- road
- building
- historical diamond drill hole collar location
- dyke with direction of dip
- adit
- trench
- shaft

BARD VENTURES LTD.

GROUSE MTN PROPERTY

Omineca Mining Division

2009 and 2010 Soil Grid Geology

Date: Jan 27, 2010	Scale: 1:5,000	Figure: GM-10-6
Projection: UTM Zone 9 - NAD83	State/Province: BC	
Author: RK	File: GM10_SoilGrid_ass	

542642

542644

508377

508374

542645

540502

North Lake

Coppermine Lake

L0W L2W L4W L6W L8W L10W L12W L14W

645500m E 646000m E 646500m E 647000m E 647500m E

6049000m N 6048500m N 6048000m N 6047500m N 6047000m N 6046500m N 6046000m N

LEGEND

- 2010 soil sampling
- 2009 soil sampling
- rock sample station - Cu (ppm)
- road
- trench

Cu (ppm) in soils

- <163.5 (<95th percentile)
- 87.93 to 163.5 (90th percentile)
- 45.55 to 87.93 (75th percentile)
- 28.3 to 45.55 (50th percentile)
- <28.3 (<50th percentile)

0 50 100 150 250 metres

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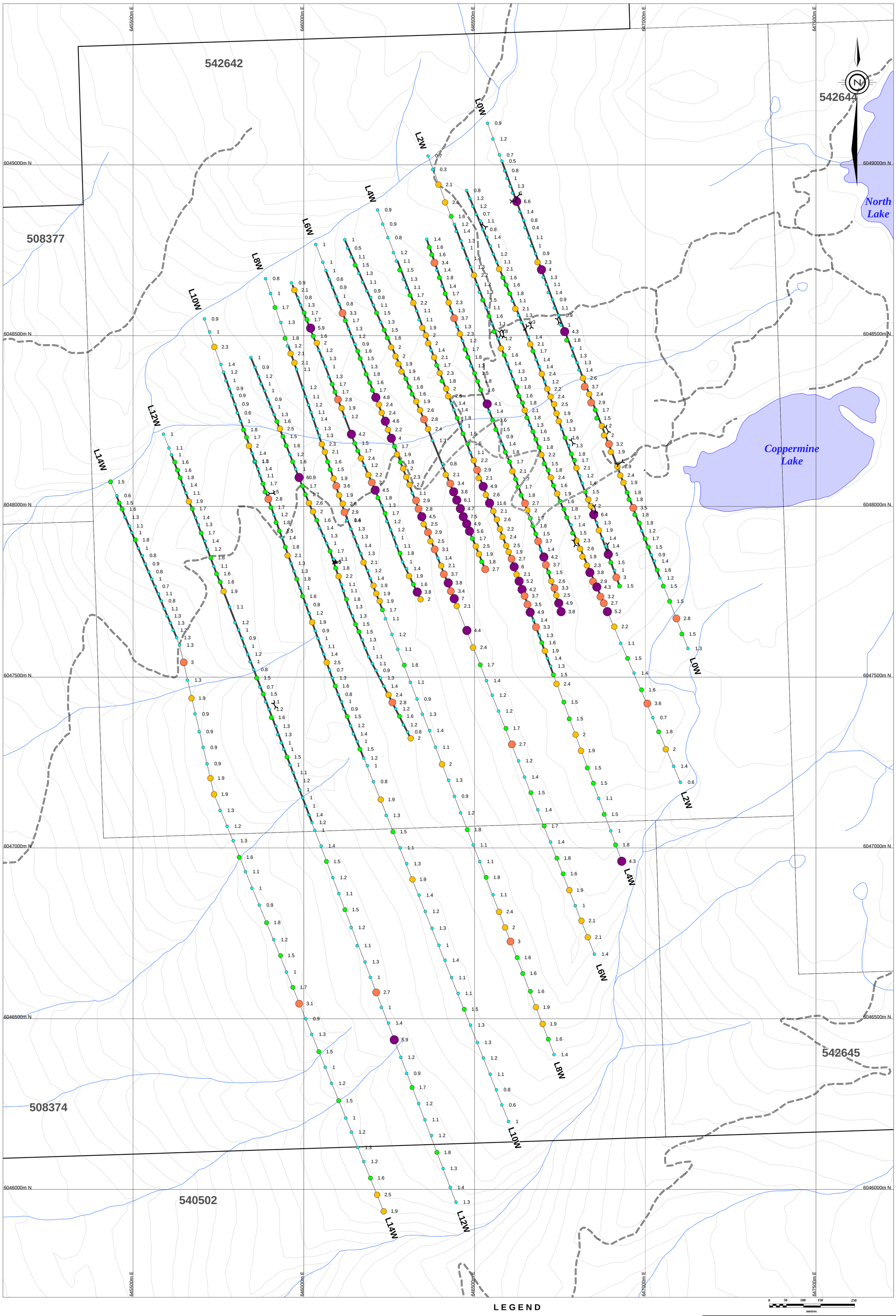
GROUSE MTN PROPERTY

Omineca Mining Division

Soil and Rock Geochemistry Cu (ppm)

Date: Jan 27, 2010	Scale: 1:5,000	Figure: GM-10-7
Projection: UTM Zone 9 - NAD83	State/Province: BC	
Author: RK	File: GM10_SoilGrid_ass	



LEGEND

- 2010 soil sampling
- 2009 soil sampling
- rock sample station - Mo (ppm)
- road
- trench

Mo (ppm) in soils

- >3.715 (>95th percentile)
- 2.7 to 3.715 (90th percentile)
- 1.9 to 2.7 (75th percentile)
- 1.5 to 1.9 (50th percentile)
- <1.5 (<50th percentile)

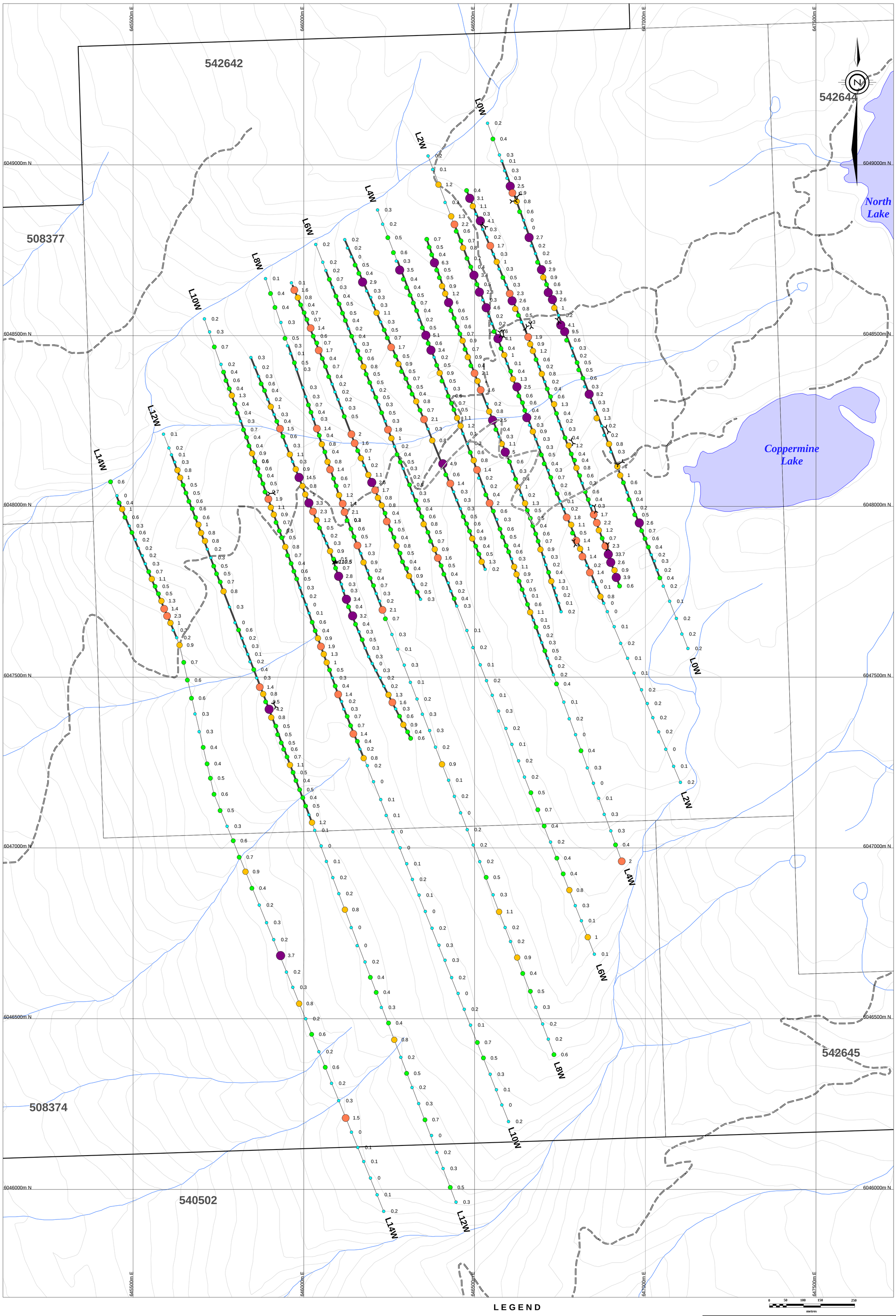
BARD VENTURES LTD.

GROUSE MTN PROPERTY

Omineca Mining Division

Soil and Rock Geochemistry Mo ppm)

Date	Jan 27, 2010	Scale	1:5,000	Figure	GM-10-8
Projection	UTM Zone 9 - NAD83	State/Province	BC		
Author	RK	File	GM10_SoilGrid_ass		



LEGEND

- 2010 soil sampling
- 2009 soil sampling
- rock sample station - Ag (ppm)
- road
- trench

Ag (ppm) in soils

- >2.33 (>95th percentile)
- 1.4 to 2.33 (90th percentile)
- 0.8 to 1.4 (75th percentile)
- 0.4 to 0.8 (50th percentile)
- <0.4 (<50th percentile)

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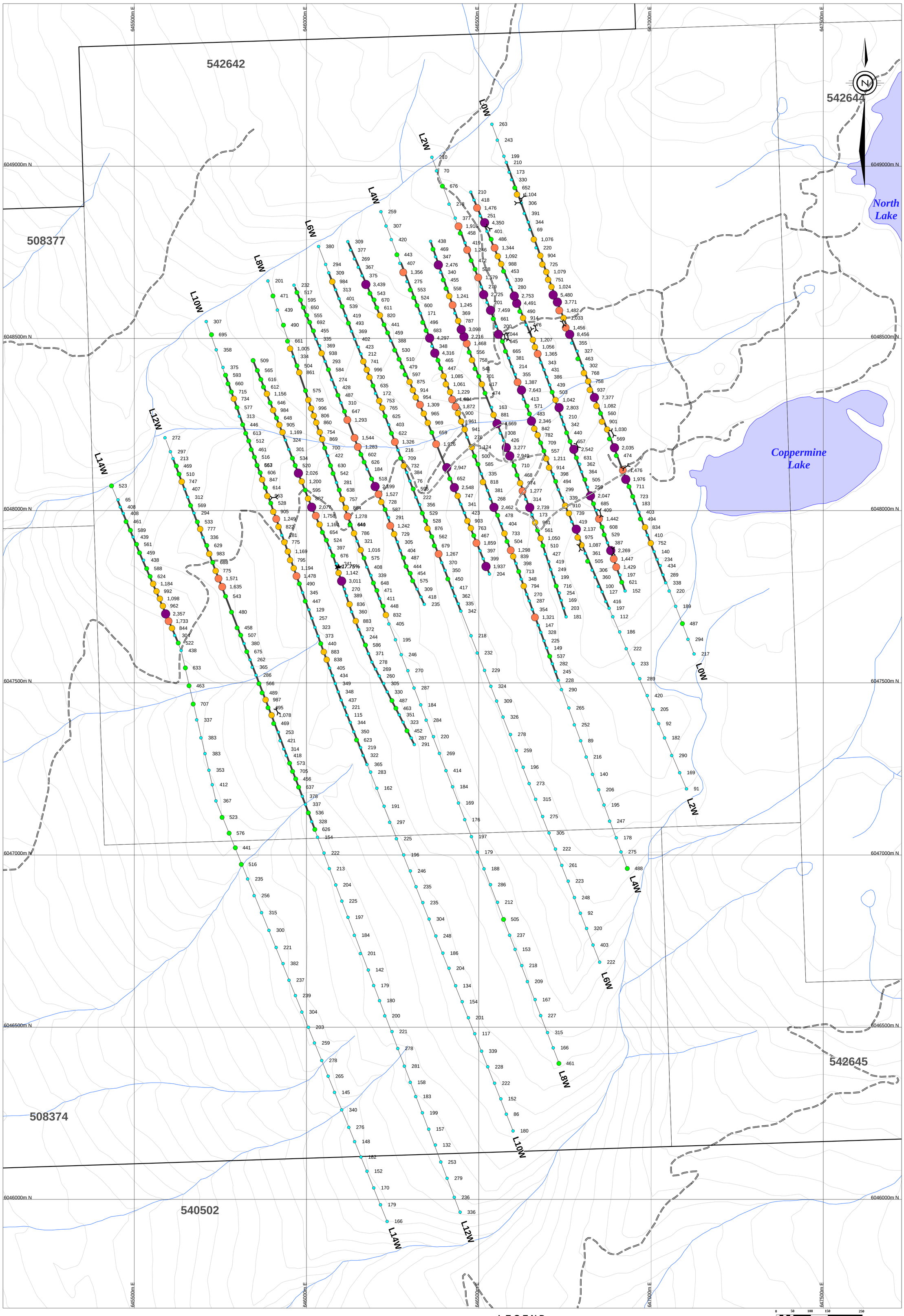
GROUSE MTN PROPERTY

Omineca Mining Division

Soil and Rock Geochemistry
Ag (ppm)

Date	Jan 27, 2010	Scale	1:5,000	Figure	GM-10-9
Projection	UTM Zone 9 - NAD83	State/Province	BC		
Author	RK	File	GM10_SoilGrid_ass		



LEGEND

- 2010 soil sampling
- 2009 soil sampling
- rock sample station - Zn (ppm)
- road
- trench

Zn (ppm) in soils

- >1,927.65 (>95th percentile)
- 1,241.3 to 1,927.65 (90th percentile)
- 724.5 to 1,241.3 (75th percentile)
- 440 to 724.5 (50th percentile)
- <440 (<50th percentile)

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Omineca Mining Division

Soil and Rock Geochemistry Zn (ppm)

Date	Jan 27, 2010	Scale	1:5,000	Figure	GM-10-10
Projection	UTM Zone 9 - NAD83	State/Province	BC		
Author	RK	File	GM10_SoilGrid_ass		