

Ministry of Energy & Mines
Energy & Minerals Division
Geological Survey Branch

**ASSESSMENT REPORT
TITLE PAGE AND SUMMARY**

TITLE OF REPORT [type of survey(s)] GEOCHEMICAL AND GEOLOGICAL SURVEY REPORT	TOTAL COST \$30,016.96
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AUTHOR(S) Rick Kemp, P. Geo

SIGNATURE(S) 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) N/A YEAR OF WORK 2009

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) Event #4384629 / October 26, 2009

PROPERTY NAME Grouse Mountain

CLAIM NAME(S) (on which work was done) Tenures 508374, 540502, 542642

COMMODITIES SOUGHT Cu, Zn, Ag, Mo

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN 093L026, 250, 254, 287, 288, 289 AND 294

MINING DIVISION Omineca NTS 93L/10E BCGS: 093057

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

OWNER(S)

1) Stephen Bjorn Soby

2) _____

MAILING ADDRESS

PO Box 4200

Smithers, BC V0J 2N0

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 flow breccias of the
Telkwa Fm is overlain by volcanoclastic sediments of the Ashman Fm. These
layered rocks have been intruded by granitic rocks correlative to the Bulkley
intrusions and NW trending dykes known as Goosley Lake intrusions.

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

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 / 300 ha	508374,540502,542642	\$ 5,000.00
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL			
(number of samples analysed for ...)			
Soil	356 / 36 element ICP-MS	508374,540502,542642	\$14,653.63
Silt			
Rock	6 / 35 element ICP-ES	508374,540502,542642	\$ 246.97
Other			
DRILLING			
(total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying	362 samples (Acme Labs)	508374,540502,542642	\$ 5,116.36
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Line/grid (kilometres)	Soils Grid, 17.5 line km	508374,540502,542642	\$ 5,000.00
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
TOTAL COST			\$30,016.96

**BC Geological Survey
Assessment Report
31153**

GEOCHEMICAL & GEOLOGICAL SURVEY REPORT

on the

GROUSE MOUNTAIN PROPERTY

Tenure Nos. 508374 and 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.

October 26, 2009

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		GM-09-2 (after p. 3)	Claim Map	1:50,000
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		GM-09-4 (after p. 7)	2009 Geochem Survey Location Map	1:35,000
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		GM-09-6 (in pocket)	2009 Soil Grid Geology	1:5 000
		GM-09-7 (in pocket)	2009 Soil and Rock Geochemistry – Cu (ppm)	1:5 000
		GM-09-8 (in pocket)	2009 Soil and Rock Geochemistry – Mo (ppm)	1:5 000
		GM-09-9 (in pocket)	2009 Soil and Rock Geochemistry – Ag (ppm)	1:5 000
GM-09-10 (in pocket)	2009 Soil and Rock Geochemistry – Zn (ppm)	1:5 000		

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-09-1). 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 a geochemical and reconnaissance geological program that took place on the southwest-facing slope of Grouse Mountain. Samples were taken at 50 m intervals over eight lines that ranged in length from 1,650 m to 2,500 m and totalled 17.5 line km. The sample area was approximately 300 ha. The program resulted in a total of 356 soil and 6 rock samples being collected and analysed. The work was carried out primarily on Tenure Nos. 508374 and 542642 with a small portion on adjoining tenure 540502.

PROPERTY:

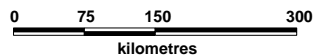
The Grouse Mountain Property consists of seven mineral tenures (94 cells) (Figure GM-09-02) covering an area of 1,763.3 hectares in the Omineca Mining Division of west-central British Columbia, 19 km north-northwest of Houston and approximately 38 km southeast of Smithers, BC. As illustrated in Figure GM-09-02, all of the mineral tenures are contiguous and centered at 54°34' North Latitude and 126°44' West Longitude in NTS map area 93L/10, BCGS map sheet 093L057.

All of the current mineral tenures are registered in the name of Stephen Bjorn Soby, the Optionor of the property. The configuration of the current claim holdings is shown in Figure GM-09-02 and details on the claim tenures are listed in Section B of this report. The new Good to Date of October 1, 2014 is based on the Exploration and Development Work filed on October 26, 2009 as Event #4384629 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 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-09-02).

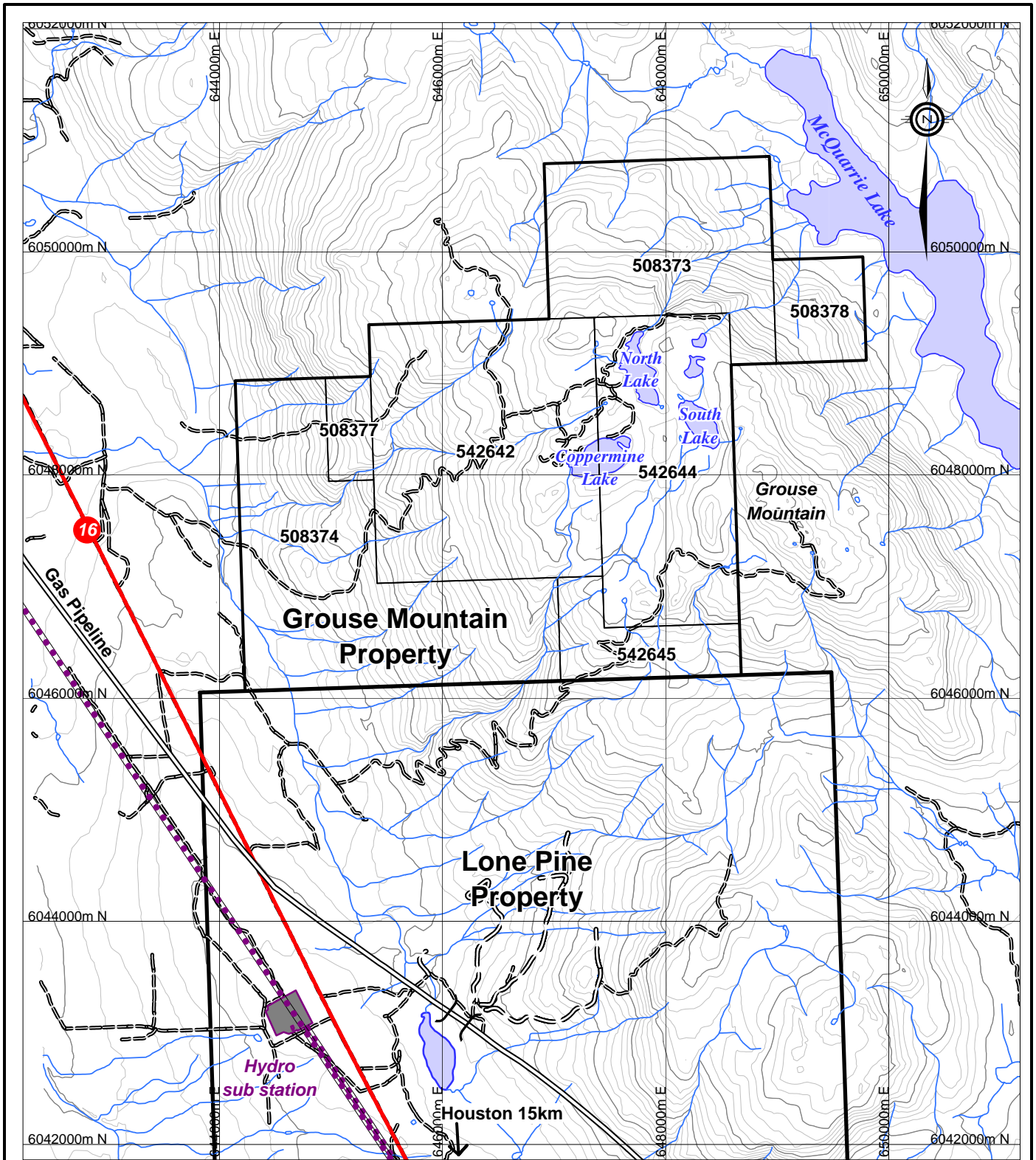


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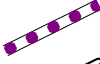
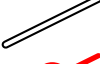

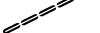
GROUSE MTN. PROPERTY
Omineca Mining Division

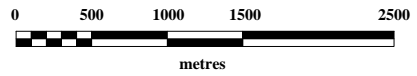
Location Map

Date	Sep 28, 2009	Scale	1:8,000,000	Figure
Projection	UTM Zone 9 - NAD83	State/Province	BC	GM-09-01
BCGS	093L07	NTS	093L047,057	
Author	MJD	File	GM_LocMap	



LEGEND

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



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GROUSE MTN. PROPERTY
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Claim Map

Date	Sep 28, 2009	Scale	1:50,000	Figure
Projection	UTM Zone 9 - NAD83	State/Province	BC	GM-09-2
BCGS	093L07	NTS	093L047,057	
Author	RK	File	GM_09Ass	

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 1,560 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 carried 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 a newly established grid system, analytical soil geochemistry and reconnaissance geological mapping, the results of which are the subject of this report.

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	4,600 m of surface and u/g diamond drilling mostly at Ruby and Copper Crown zones. Additional 1,300 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 1,282m 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	1,783 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 17.5 km 356 Soil Samples 6 Rock Samples Reconnaissance Outcrop Mapping

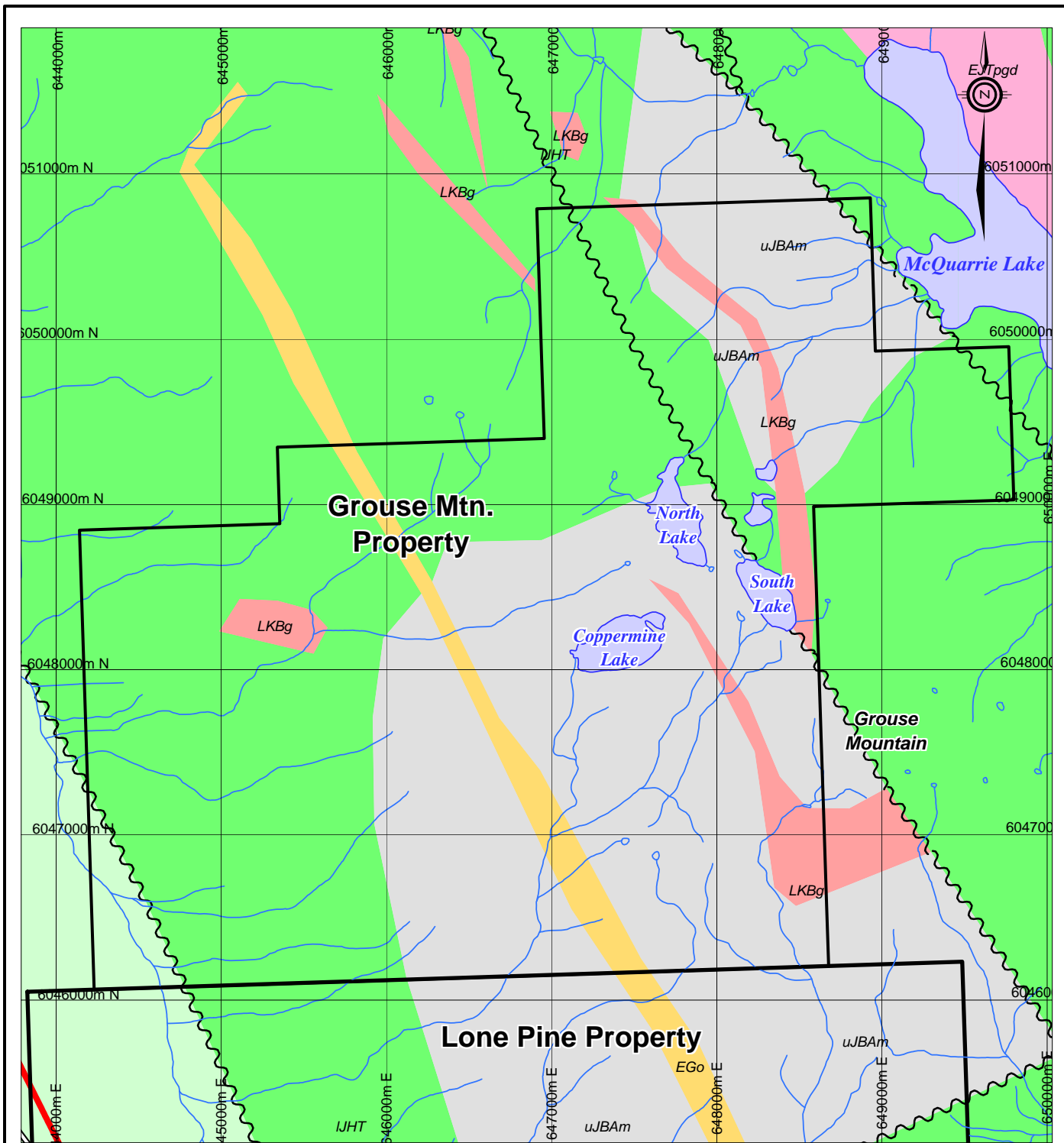
REGIONAL GEOLOGY:

The Grouse Mountain Property (Figure GM-09-3) is located in the Stikine Terrain within the intermontane tectonostratigraphic belt, and is dominantly underlain by Mesozoic Hazelton 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 Hazelton 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.

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 1,000 m 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.

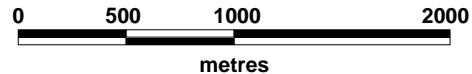
Numerous intrusive stocks occur within the area with Mesozoic Topley granites having been emplaced contemporaneously with the Babine shelf Hazelton Group volcanics. In the late Cretaceous the Bulky granitic and lesser gabbroic stocks, dykes, and plugs were emplaced within the older volcano-sedimentary 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.



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**
- JHT* Telkwa Fm. volcanic rocks
- LKBg* Bulkley Plutonic Suite intrusive rocks
- Bowser Lake Group**
- uJBAm* Ashman Fm. mudstone, siltstone, shale fine clastic sedimentary rocks



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GROUSE MTN. PROPERTY

Omineca Mining Division

Property Geology

Date	Sep 28, 2009	Scale	1:35,000
Projection	UTM Zone 9 - NAD83	State/Province	BC
BCGS	093L07	NTS	093L047,057
Author	RK	File	GM_09Ass

GM-09-3

PROPERTY GEOLOGY:

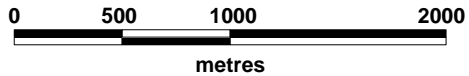
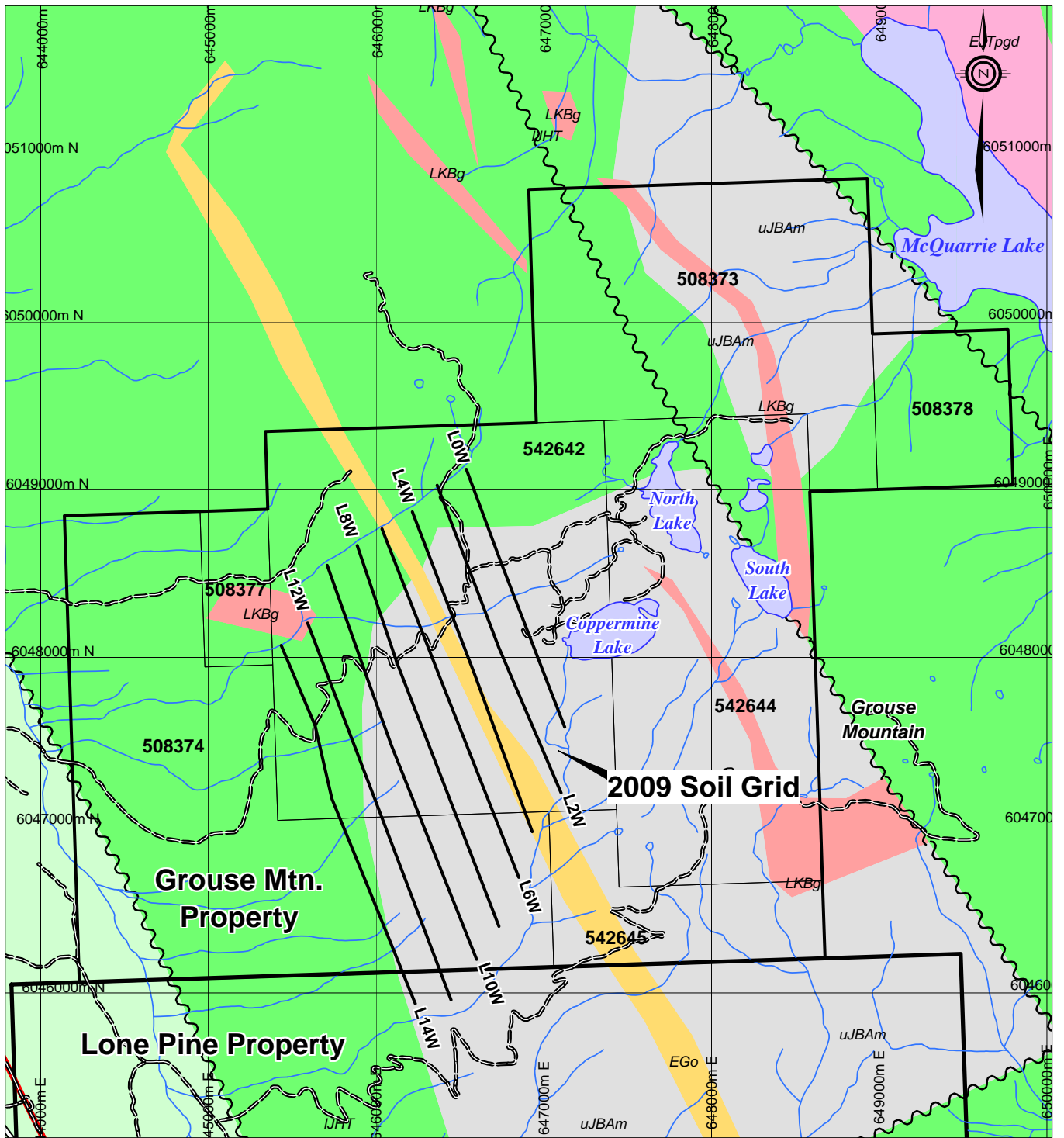
The Property (Figure GM-09-03) is primarily underlain by a sequence of northwesterly striking andesitic flows and pyroclastics, with lesser rhyolite and basalts of the Island Arc derived Telkwa formation of the Lower Jurassic Hazelton Group. Sedimentary rocks of the Upper Jurassic Bowser Lake Group have 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 km to the south. Narrow (100-200 m) northwesterly striking Tertiary dykes have a mafic biotite-rich matrix and distinctive feldspar phenocrysts up to four cm in length. The coarse 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 fault zones in discontinuous lenses and pods up to 1.5 m in width. Sulphides also occur as fracture fillings along sheeted fracture zones up to 15 m 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.

2009 GEOCHEMICAL SAMPLING and GEOLOGICAL MAPPING:

Bard Ventures Ltd. mobilized a crew to conduct a geochemical survey on the Grouse Mountain Property in August of 2009. A grid was established on the southwest-facing slope of Grouse Mountain, which is to the southwest and downslope of known showings and zones of mineralization. The surveyed grid can be described as 8 parallel lines spaced 200 m apart ranging in length from 1,650 m to 2,500 m and oriented along an azimuth of 340 degrees. Station spacing along the lines was every 50 m for a total of 17.5 km of surveyed line. 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. The geochemical survey took place shortly after the grid was completed. Samples were taken at every station, a total of 356 soil samples being collected. Soil samples were collected by shovel from the B-Horizon at an average depth of 20-30 cm, the sampled material was placed in standard kraft paper soil sample bags and were submitted to Acme Analytical Laboratories in Vancouver, B.C. for analyses utilizing the Acme 1DX 36 element ICP-MS analytical process. Six rock samples were also collected along several of the grid lines in areas where mesothermal alterations of host rock caused mineralization of visible pyrite as well as epidote and quartz



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GROUSE MTN. PROPERTY
 Omineca Mining Division
2009 Geochem Survey
Location Plan

Date	Sep 28, 2009	Scale	1:35,000	Figure GM-09-4
Projection	UTM Zone 9 - NAD83	State/Province	BC	
BCGS	093L07	NTS	093L047,057	
Author	RK	File	GM_09Ass	

veining. GPS coordinates and mapped locations were taken for every soil and rock sample. The rock samples were analyzed by Acme using their 1E 35 element ICP-ES method. Copies of the Acme certificates of analysis are appended in Section E along with the data sheets setting out the 1DX and 1E methods and specifications.

Following the geochemical survey, geological mapping was completed locating areas of outcrop exposure and potential sites for structurally controlled copper, zinc and silver mineralization. The mapping program was not completed along lines L0W, L2W and a portion of L4W from 0+00 to 7+50N.

Statistical analysis of the soil geochemical data were reviewed, the results of which are illustrated in figures GM-09-7 to 10. Definitely anomalous values for copper, zinc and silver are considered any value greater or equal to the 95th percentile which closely approximates the mean plus 1 standard deviation. Anomalous values for molybdenum are considered greater than 3.2 ppm Mo.

CONCLUSIONS:

The results of the soil geochemical survey illustrate both single and multi element anomalous 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. In general, at least five geochemical trends comprising a combination of both single and multi element anomalies are interpreted to extend intermittently from 200 m up to 1000 m in length and are concentrated in the northern half of the geochemical grid. The interpreted anomalous trends typically consist of single 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. Elevated and anomalous geochemical sample sites are poorly developed within this unit. A major portion of the defined Cu-Zn-Ag geochemical anomalies located in the central portions 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 along lines L0W, L2W and L4W are clusters of single and multi point anomalies which locally are noted to extend over 400 m in length. The position of these geochemical anomalies north of the mineralized zones evaluated central to Coppermine Lake may represent new mineralized trends previously unidentified.

Copper:

Copper soil results are illustrated in figure GM-09-7. The anomalous threshold value for copper is determined to be >71.4 ppm Cu with definitely anomalous results reporting >104.6 ppm Cu. A total of 36 sample sites exceed 71.4 ppm Cu, 18 of which are definitely anomalous with the highest value reporting 1,131.4 ppm Cu located on L0W at 2+50S.

The greatest proportion of anomalous copper in soils is concentrated along L0W from 4+00N to 5+00S. The best developed copper soil anomaly extends over 800 m in length from L0W / 0+50S to L8W / 0+50N with anomalous Cu values from 83.7 ppm to 953.8 ppm Cu. The anomalous linear trend closely parallels the orientation of the Rainstorm Zone and appears to suggest an extension to the zone.

To the north of the above trend are several single and double station anomalies occurring intermittently from line L0W to L10W. Anomalous results report from 75.5 ppm to 637.9 ppm Cu. The northern most anomalous results extend over 400 m in length from L0W / 3+50N to L4W / 5+50N with values reporting from 75.5 ppm to 165.2 ppm.

A set of 3 multi line trends are noted over 200 m in length from L0W to L2W from 2+50S to 5+00S, the northern two of which may extend to L4W on the southwest side of the northwest trending feldspar porphyry dyke. The orientation of these trends closely parallels the Ruby and Copper Crown Zones.

Molybdenum:

Molybdenum has historically not been evaluated on the grouse Mountain property and has not been found associated with the known mineralized zones identified to date local to the Coppermine Lake area. In light of a 43-101 compliant molybdenum resource announced by Bard Ventures Ltd on the adjoining Lone Pine Property, a review of the molybdenum soil geochemical results were completed.

Molybdenum soil geochemical results are illustrated in Figure GM-09-8. Molybdenum soil geochemical values are considered very low level. Based on the results, the anomalous threshold value for molybdenum is considered >3.3 ppm Mo. A total of 18 sites exceed 3.3 ppm Mo with the highest value reporting 7.0 ppm. Although not considered significant, a clustering of anomalous molybdenum soil results are noted in the central portion of the grid covering L2W, L4W and L6W within the quartz feldspar porphyry dike along its western contact. Other single and double point anomalies are also noted along this contact on L6W further to the north.

Silver:

Silver soil results are illustrated in figure GM-09-9. The anomalous threshold value for silver is >0.95 ppm Ag with definitely anomalous results reporting >1.4 ppm Ag. A total of 36 sample sites exceed 0.95 ppm silver, nineteen of which are considered definitely anomalous with the highest value reporting 9.5ppm silver located on L0W / 0+50S.

A well defined multi line linear silver anomaly is located in the north central portion of the geochemical grid which closely parallels the position of an 800 m copper soil anomaly. This anomaly extends over 1200 m from L0W / 0+50S to L12W / 1+00N with silver values reporting from 1.0 ppm to 9.5 ppm silver. The position and orientation of the anomalous trend suggests a possible extension to the Rainstorm Zone.

To the south of the above anomalous zone are two sub parallel silver anomalies extending over 200m in length from L0W / 5+00s and 6+50S to L2W / 6+00S and 7+00S. The two anomalous trends appear to terminate at the contact with the northwest trending quartz feldspar porphyry. The northern zone closely approximates the trend of the Ruby Zone while the southern anomaly may suggest the westerly extension of the Shorn Zone located in the southwest corner of Coppermine Lake. To the southwest along the projected trace of the above anomalies are two parallel soil geochemical anomalies over 200 m in length which may suggest potential extensions. These anomalies are located on L10W / 3+50S and 6+00S to L12W / 4+00S and 6+50S with silver values from 1.1 ppm to 1.4 ppm Ag.

To the north of the main silver geochemical anomaly are several anomalous sites concentrated primarily along L0W from 0+50N to 4+00N, several of which are associated with anomalous copper soil results. A 400 m silver geochemical anomaly extends from L0W / 4+00N to L4W / 5+50N with silver values from 1.3 ppm to 3.5 ppm. The south westerly extension of the anomaly terminates at the contact with the northwest trending feldspar porphyry dyke.

Zinc:

Zinc soil results are illustrated in figure GM-09-10. The anomalous threshold for zinc is >902 ppm Zn while definitely anomalous results report >1219 ppm Zn. A total of 36 sample sites exceed 902 ppm zinc,

eighteen of which are considered definitely anomalous with the highest value reporting 8,456 ppm Zn located on L0W / 0+50S. The results of the geochemical survey clearly illustrate that anomalous zinc soil results are concentrated in the northern half of the grid while background values are concentrated to the south. Although anomalous zinc values greater than 902 ppm Zn are considered meaningful, for clarity only the definitely anomalous zinc values exceeding 1219 ppm zinc are considered in the discussion.

The strongest zinc soil anomaly is 600 m in length extending from L0W / 0+50S to L6W / 0+50N with values from 1,326 ppm Zn to 8,456 ppm Zn and is in part coincident with anomalous copper and silver geochemical trends. Immediately to the north is a second sub parallel anomaly extending over 400 m in length from L0W / 0+50N to L4W / 2+50N to 3+50N with values from 4,297 ppm Zn to 8,044 ppm Zn. This anomaly is also in part coincident with anomalous silver and copper geochemical results. The position and orientation of these two anomalies suggest a close proximity to the Rainstorm Zone and its potential for extension. Further to the north is a 200 m long anomaly extending from L2W / 2+50N to L4W / 5+50N which is in part coincident with a single point silver anomaly.

Along the western side of the soil geochemical grid and west of the main zinc soil anomaly is a 400 m long single point zinc anomaly extending from L10W / 1+00S to L14W / 1+00N with values from 1,478 ppm to 1,733 ppm Zn. Along its projected trace to the east is a second zinc soil anomaly extending over 200 m from L4W / 3+00S to L6W / 3+00S with values of 1,267 ppm to 1,298 ppm Zn. Both of these anomalies are in part coincident with anomalous single point silver and zinc results.

The reconnaissance geological mapping program broadly identified the main geological units underlying the gridded area. No significant mineralization was identified. Rock grab samples submitted for analysis returned low copper, zinc, silver results.

RECOMMENDATIONS:

A program of prospecting and sampling is recommended along the trace of the geochemical trends as well as the anomalous sample sites to determine the source for the geochemical anomalies and to locate structures favourable for hosting copper, silver, zinc mineralization. This program would evaluate the potential extensions to known zones of mineralization as well will evaluate new anomalies located to the north of the Rainstorm Zone in the north east portions of the soil grid. Additional infill soil sampling may be warranted at 25m intervals across the anomaly to narrow down the potential width of mineralization considering the narrow nature of the mineralized structures identified to date in the Coppermine Lake area. Additional infill soil sampling may be warranted along selected lines to extend zones of mineralization through areas of sub anomalous geochemical results. Grid mapping should be completed along lines L0W, L2W and L4W.

There are several anomalous geochemical trends central to the main access road. Prospecting along these trends should determine whether there are sites for potential contamination considering the proximity of this access to the geochemical anomalies. Considering the proximity of L0W and L2W to historical workings and access routes, anomalous geochemical sites along these lines should be evaluated for potential contamination from road fill and historical trench, drill sites and underground workings.

Respectfully submitted



Rick Kemp, P. Geo



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STATEMENT OF QUALIFICATIONS:

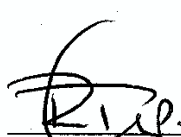
For: Rick Kemp of 2769 William Ave, North Vancouver, British Columbia.

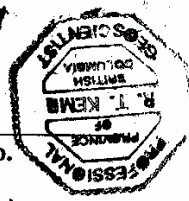
I graduated from Lakehead University with a Bachelor of Sciences Degree in Geology (1981);

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 the report are based on the author's supervision of the described program and the evaluation of results of the exploration drill program completed by the operator of the property, Bard Ventures Ltd.


Rick Kemp, P. Geo.



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: 54°33.6'		LONGITUDE: 126°44'	
			UTM: NAD 83	ZONE 9	6 048 000 N	646 500 E
MAP			PROPERTY INTEREST:			
1:250 000	93L Smithers	Bard Ventures Ltd. – 0%				
1:50 000	93I/10 Quick	Stephen Bjorn Soby – 100%				
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

SECTION C: EXPENDITURES (Grouse Mountain 2009 Geochem Sampling Program)

Item	Work Performed	Quantities / Rates	Amount
Geochemical and Geological Survey:			
Personnel:			
Project Manager: Jim Miller-Tait, P.Geo	General project management: Aug – Sep 2009	4 days @ \$625.00	2,500.00
Project Geologist: Rick Kemp, P.Geo	Period: Jul 28-31, 2009 Aug 1-6, 21, 2009 Project supervision	4 days @ \$500.00 7 days @ \$500.00	2,000.00 3,500.00
Field Geologist: Andrew Ganton	Period: Aug 1-18 Soil grid survey, geological mapping and sampling	17 days @ \$200.00	3,400.00
Field Assistant: Matthew Miller-Tait	Period: Aug 1-18 Soil grid survey, mapping and sampling	17 days @ \$150.00	2,550.00
Subtotal			\$13,950.00
Accommodation & Meals:			
For Rick Kemp Andrew Ganton Matthew Miller-Tait	Period: Jul 28-Aug 17, 2009	45 man days @ \$67.15	\$3,021.62
Transportation:	Vehicle charges plus fuel	21 days @ \$56.30	\$1,182.22
Field Supplies:	Survey supplies, sample bags		\$328.56
Analytical Services:			
Acme Analytical Laboratories Ltd. Vancouver, BC	Analysis of soil and rock samples: Acme analytical code 1DX: 36 element (ICP-MS) - 356 1E: 35 element (ICP-ES)- 6	356 @ \$14.09 6 @ \$16.72	5,016.04 100.32 \$5,116.36
Map Preparation:			
Mike Davies, Moonraker Multimedia	Base map preparation, data plotting,	26.25 hrs. @ \$65.00	1,706.25
Printing	Map printing		51.95
Subtotal			\$1,758.20
Report Preparation:			
Andrew Ganton, Field Geologist	Preliminary report preparation	1.5days @ \$200.00	300.00
Rick Kemp, P.Geo. Project Geologist	Data review, interpretation and final report preparation	7 days @ \$500.00	3,500.00
Erik Andersen, Land Administrator	Data and report compilation and editing	21.5 hours @ \$40.00	860.00
Subtotal			4,660.00
Total Survey	8 lines / 17,500 m (17.5 km)		\$30,016.96
Unit Cost per Line Km	17.5 km		\$1,715.25

Expenditure Apportionment:

Tenure	Work (m soil grid)	% of Total	Expenditure
508374	4130	23.60	7,084.00
540502	380	2.17	651.37
542642	12990	74.23	22,281.59
Total	17500	100.00	\$30,016.96

SECTION D: 2009 SAMPLE DATA

2009 Soil and Rock Geochem Sampling:

1. Rock Sample Coordinates and Sample Descriptions
2. Soil Sampling Grid and Station Coordinates and Sample Descriptions

Bard Ventures Ltd.
Grouse Mountain
Rock Sample Field Notes (August 2009)

Rock Sample #	Assay ID	Notes
RK0814-01 (645538mE 6047810mN) L14W		Large outcrop of subareial maroon lapilli tuff Maroon fine grain matrix Angular clast ranging up to 1mm Three quartz veins trending ~142°/70° NO py or cp noticed in any of the three widths of veins 5cm, 10cm, 25cm
RK0814-02 (646033mE 6046451mN) L14W		Angular Grains w/ little matix Light (white) and Dark (green to black) clast A large Quartz Xenolith ~ 2cm Mapped as Unit 2b - Breccia
RK0814-03 645831mE 6047570mN L12W		Lenticular Quartz veins hosted in unit 2a tuffaceous greywacke Alteration to host rock around veins Three separate quartz veins observed on O/C Thin as 4cm abd thick as 20cm
RK0814-04 645895mE 6048036mN L10W	538801	Sample located in an old hand dug trench Unit 2a dark altered wacke/gritstone Extensive quartz fracture filling Mineralization of visible pyrite ~ 10 veinlets in the sample ~ 3 to 5mm wide and run throughout Disconcordant to bedding
RK0815-05 645964mE 6047824mN L8W		Intrusive Dyke w/ bladed Hornblend or biotite grains up to 2mm in length Kspar and Plag in ~ even percentage Mapped as Unit 4 Granodiorite to monzodiorite
RK0815-06 646673mE 6047824mN L8W	538802	Outcrop with extensive epidote and quartz veining Indicative of Hydrothermal fluid alteration commonly in fault zones No sulphide mineralization evident Different lithology? Or drastically altered Marron lapilli tuff In contact with the epidote altered rock

**Bard Ventures Ltd.
Grouse Mountain
Rock Sample Field Notes (August 2009)**

Rock Sample #	Assay ID	Notes
RK0815-07 646328mE 6047476mN L8W	538804	Fine Grained Dark grey sediment Fairly hard for a sediment greywacke near more 2a sediments (mud/gritstone) Located in possible fault zone quartz fracture filling observed as well as scattered visible pyrite RK0815-07 is located outside of the "V" depression in topography ie, outside of the fault zone
RK0815-08 646328mE 6047476mN L8W	538803	RK0815-08 is sampled in the same location as RK0815-07, but in the "V" depression ie in the actual fault zone Sediment looks darker - altered? Has more visible pyrite
RK0815-09 646484mE 6047476mN L6W		Another possible fault zone Epidote and quartz fracture filling alteration of a greywacke/ or gritstone small >1mm pyrite observed in sed. with quartz veinlets Not observed in epidote altered sediment
	538805	Epidote and Quartz altered
	538806	Sediment containing quartz veins and pyrite

NOTE: Should have two separate samples for this outcrop.

Grouse Mountain
 Soil Sampling of Grid Lines L14W to Lo Trending
 Andrew Canton / Matt Miller-Tait

August 9 2009

Revised: Aug 28 2009 (EA)
 East Coordinates for Line 14W

LINE #	STATION	UTM mE	mN	DEPTH	COLOUR	NOTES
L14W	17+50S	646234	6045936	23cm	Brown/Light Brown	Pebbly Fine Sand(FS)/ open alder
L14W	17+00S	646213	6045982	22cm	Light Brown/Red	Pebbly FS/ open alder
L14W	16+50S	646197	6046037	25cm	Light Brown	Pebbly Sand/ mixed open spruce and pine
L14W	16+00S	646175	6046069	26cm	Light Brown	Pebbly Fine Sand/ mixed open spruce and pine
L14W	15+50S	646158	6046123	25cm	Light Brown	Pebbly Fine Sand/ mixed open spruce and pine
L14W	15+00S	646139	6046158	29cm	Light Brown/Red	Pebbly Fine Sand/ tight spruce
L14W	14+50S	646119	6046208	35cm	Brown	Pebbly Clay pocket in Bark Brown silt/ near swamp
L14W	14+00S	646096	6046254	30cm	Dark Brown	Very Fragmented rock and soil/ near volcanoclastic sed. Out
L14W	13+50S	646080	6046300	24cm	Light Brown	Pebbly Fine Sand/ open pine and spruce
L14W	13+00S	646061	6046356	28cm	Light Brown	Pebbly Fine Sand/ open pine and spruce
L14W	12+50S	646043	6046411	32cm	Brown/Light Brown	Pebbly Fine Sand/Clay/ open pine and spruce
L14W	12+00S	646020	6046447	28cm	Brown/Red	Clay/silt open grass amongst fallen trees
L14W	11+50S	646002	6046490	27cm	Light Brown	Pebbly Fine Sand/Clay/ open pine and spruce
L14W	11+00S	645978	6046547	26cm	Dark Brown	Pebbly Clay/ open pine and poplar
L14W	10+50S	645963	6046590	27cm	Brown/Light Brown	Pebbly Fine Sand/Clay/ open pine and spruce
L14W	10+00S	645940	6046622	29cm	Light Brown	Pebbly Fine Sand/Clay/ open pine and spruce
L14W	9+50S	645921	6046660	31cm	Dark Brown	Rocky Fine Sand Clay/ open pine and spruce
L14W	9+00S	645901	6046711	24cm	Light Brown	Pebbly Fine Sand/Clay/ open pine and spruce
L14W	8+50S	645894	6046774	26cm	Brown	Pebbly Fine Sand/Clay/ open pine and spruce
L14W	8+00S	645869	6046817	27cm	Brown/Light Brown	Pebbly Clay/ open pine and alder
L14W	7+50S	645848	6046882	25cm	Brown/Orange	Pebbly Sandy Clay/ open pine and spruce
L14W	7+00S	645829	6046916	23cm	Brown	Very Pebbly Sand w. Clay/ open alder, spruce, and pine
L14W	6+50S	645818	6046971	24cm	Brown/Red	Rocky Clay in spruce
L14W	6+00S	645791	6046989	29cm	Brown/Orange	Rocky Clay in spruce
L14W	5+50S	645788	6047047	27cm	Light Brown	Very Rocky Fine Sand / open alder, pine and spruce
L14W	5+00S	645762	6047093	24cm	Brown/Red	Very Rocky Fine Sand/ clay / open alder, pine and spruce
L14W	4+50S	645737	6047157	28cm	Brown/Light Brown	Very Rocky Fine Sand/ Clay in spruce
L14W	4+00S	645727	6047192	11cm	Dark Brown	Shallow collected ontop of V. sed. O/C
L14W	3+50S	645707	6047245	25cm	Light Brown	Rocky Fine sand /clay / pine and spruce
L14W	3+00S	645695	6047295	27cm	Brown/Light Brown	Rocky Pebbly FS/Clay/ pine and spruce
L14W	2+50S	645688	6047341	23cm	Brown/Light Brown	Pebbly FS/ Clay tight spruce
L14W	2+00S	645680	6047387	29cm	Light Brown	Pebbly FS/ tight spruce
L14W	1+50S	645670	6047434	24cm	Brown/Orange	Rocky Pebbly FS clay/ tight spruce
L14W	1+00S	645656	6047489	26cm	Light Brown	Rocky FS/ tight spruce
L14W	0+50S	645643	6047538	31cm	Brown/Red	Very Rocky FS Clay/ tight spruce
L14W	0+00	645636	6047594	32cm	Brown	Very Rocky FS Clay/ tight spruce
L14W	0+50N	645629	6047647	21cm	Light Brown	Pebbly FS Clay/ tight spruce
L14W	1+00N	645607	6047684	30cm	Light Brown	Pebbly FS open spruce and pine
L14W	1+50N	645593	6047738	28cm	Light Brown	FS Clay w/ pebbles/ open spruce and pine
L14W	2+00N	645564	6047769	24cm	Light Brown	Sandy Clay/ open alder and grass

Grouse Mountain
 Soil Sampling of Grid Lines L14W to Lo Trending
 Andrew Canton / Matt Miller-Tait

LINE #	STATION	UTM mE	mN	DEPTH	COLOUR	NOTES
L14W	2+50N	645548	6047806	20cm	Dark Brown	Very Rocky/ collected at base of V.Sed. O/C
L14W	3+00N	645527	6047856	22cm	Brown	Rocky sandy clay/ open spruce
L14W	3+50N	645512	6047898	30cm	Brown	Rocky sandy/ clay open spruce
L14W	4+00N	645483	6047952	34cm	Brown/Light Brown	Pebbly Sandy clay/ open spruce
L14W	4+50N	645468	6047992	30cm	Brown/Dark Brown	Rocky Sandy Clay/ open spruce
L14W	5+00N	645453	6048042	29cm	Light Brown/Grey	Sandy Clay/ open spruce and alder/ in ravine
L14W	5+50N	645434	6048072	22cm	Brown/Grey	Sandy Clay/ open spruce/ in ravine
L12W	20+00S	646434	6045963	25cm	Brown/ Light Brown	Sandy Clay. Open grass and alder
L12W	19+50S	646423	6046011	26cm	Brown/Grey	Sandy Clay. Open grass and alder
L12W	19+00S	646407	6046057	21cm	Brown	Pebbly FS Clay/ open alder and pine
L12W	18+50S	646388	6046117	24cm	Brown/Dark Brown	Very Fragmented Rock w. soil/ in open spruce
L12W	18+00S	646374	6046158	20cm	Brown/ Light Brown	Pebbly sand/ tight spruce
L12W	17+50S	646343	6046209	27cm	Brown	Very Rocky Sandy Clay/ open spruce
L12W	17+00S	646333	6046259	22cm	Brown/ Light Brown	Pebbly FS/ within spruce
L12W	16+50S	646316	6046291	23cm	Brown/ Light Brown	Pebbly FS/ in spruce
L12W	16+00S	646301	6046340	25cm	Brown/ Light Brown	Rocky FS clay/ open spruce
L12W	15+50S	646284	6046387	31cm	Brown	Sandy Clay/ open spruce
L12W	15+00S	646260	6046441	27cm	Brown/ Light Brown	Rocky FS Clay/ open spruce
L12W	14+50S	646233	6046489	34cm	Brown/Dark Brown	Very Rocky Clay/ in spruce
L12W	14+00S	646227	6046533	30cm	Brown	Pebbly FS/ in spruce
L12W	13+50S	646207	6046582	22cm	Light Brown	Pebbly FS/ opening in spruce
L12W	13+00S	646194	6046616	25cm	Light Brown	Pebbly FS/ opening in spruce
L12W	12+50S	646171	6046667	24cm	Brown	Pebbly FS/ opening in spruce
L12W	12+00S	646153	6046714	17cm	Light Brown	Sand/ near spruce tree
L12W	11+50S	646143	6046766	21cm	Light Brown	Very Rocky Sand/ opening in spruce
L12W	11+00S	646125	6046821	23cm	Brown/Dark Brown	Very Rocky FS/ Clay/ open spruce
L12W	10+50S	646117	6046874	21cm	Brown	Very Rocky FS/ Clay/ open spruce
L12W	10+00S	646091	6046914	26cm	Brown	Pebbly FS Clay/ spruce
L12W	9+50S	646080	6046960	24cm	Brown/ Light Brown	Rocky FS/ Clay/ open spruce
L12W	9+00S	646057	6047003	23cm	Brown/ Light Brown	Rocky FS/ open spruce
L12W	8_50S	646027	6047056	27cm	Brown/ Light Brown	Rocky FS/ open spruce
L12W	8+00S	646015	6047097	26cm	Brown	Very Pebbly FS Clay/ open spruce
L12W	7+50S	645997	6047147	11cm	Brown	Very Shallow/ collected on top of Vsed O/C
L12W	7+00S	645977	6047193	24cm	Brown	Rocky FS Clay/ open pine and alder
L12W	6+50S	645959	6047235	30cm	Dark Brown	Rocky Clay/ open grass and alder
L12W	6+00S	645935	6047292	23cm	Brown	Rocky FS/ open spruce and pine
L12W	5+50S	645922	6047332	27cm	Brown	Very Rocky FS/Clay/ open spruce
L12W	5+00S	645899	6047374	24cm	Brown/ Light Brown	Very Rocky FS/ open spruce
L12W	4+50S	645877	6047424	10cm	Brown/ Light Brown	Clay/ Silt collected on top of B/R
L12W	4+00S	645865	6047469	25cm	Brown	Rocky Clay/ FS tight spruce
L12W	3+50S	645852	6047552	29cm	Brown/ Light Brown	Pebbly FS Clay/ tight spruce
L12W	3+00S	645829	6047568	23cm	Brown	Rocky FS Clay/ near o/c

Grouse Mountain
 Soil Sampling of Grid Lines L14W to Lo Trending
 Andrew Canton / Matt Miller-Tait

LINE #	STATION	UTM mE	mN	DEPTH	COLOUR	NOTES
L12W	2+50S	645814	6047615	26cm	Brown/ Light Brown	Rocky FS Clay/ in spruce
L12W	2+00S	645790	6047655	19cm	Brown/Orange	Rocky Sand/ in spruce
L12W	1+50S	645780	6047703	27cm	Brown	Rocky FS Clay/ in spruce
L12W	1+00S	645759	6047753	23cm	Brown	Rocky FS Clay/ in spruce
L12W	0+50S	645745	6047798	21cm	Brown	Rocky FS Clay/ in spruce and pine
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L12W	0+00	645725	6047844	27cm	Brown	Very Rocky FS/ open pien
L12W	0+50N	645706	6047909	24cm	Brown/Dark Brown	Rocky Pebbly FS/ open spruce
L12W	1+00N	645697	6047947	24cm	Brown	Rocky Pebbly FS/ open spruce
L12W	1+50N	645677	6048000	26cm	Brown/ Light Brown	Rocky Pebbly FS/Clay/ open spruce
L12W	2+00N	645660	6048041	23cm	Brown	Rocky FS Clay/ open spruce
L12W	2+50N	645649	6048079	25cm	Brown	Rocky Pebbly FS/ open spruce
L12W	3+00N	645625	6048144	17cm	Light Brown	Pebbly Sandy Clay/ open spruce
L12W	3+50N	645606	6048184	21cm	Light Brown	Sandy Clay w/ pebbles/ open spruce - ravine
L12W	4+00N	645592	6048205	20cm	Brown/ Light Brown	Sandy Clay w/ pebbles/ open spruce - ravine
L10W	18+00S	646605	6046205	26cm	Light Brown	Rocky FS Clay/ open grass alder and spruce
L10W	17+50S	646580	6046244	27cm	Light Brown	Rocky FS/ open spruce
L10W	17+00S	646554	6046292	22cm	Brown/Light Brown	Pebbly FS Clay/ open spruce
L10W	16+50S	646548	6046334	24cm	Brown/Red	Rocky FS/ open spruce
L10W	16+00S	646526	6046385	24cm	Brown	Rocky FS Clay/ open spruce
L10W	15+50S	646511	6046444	26cm	Brown	Rocky Clay soil/ collected near O/C tight spruce
L10W	15+00S	646487	6046479	22cm	Light Brown	Pebbly FS/ tight spruce
L10W	14+50S	646476	6046537	29cm	Light Brown	Very Rocky FS/ tight spruce
L10W	14+00S	646452	6046574	25cm	Brown/Light Brown	Rocky FS/ tight spruce
L10W	13+50S	646435	6046630	22cm	Brown	Pebbly Sand/ tight spruce
L10W	13+00S	646419	6046680	20cm	Brown/Light Brown	Pebbly Sand/ tight spruce
L10W	12+50S	646402	6046722	28cm	Light Brown	Pebbly FS/ in spruce
L10W	12+00S	646383	6046773	29cm	Brown	Pebbly FS Clay/ tight spruce
L10W	11+50S	646366	6046810	30cm	Brown/Light Brown	Pebbly Clay/ open spruce
L10W	11+00S	646339	6046870	28cm	Brown	Pebbly Clay/ open spruce
L10W	10+50S	646331	6046907	24cm	Brown	Rocky FS Clay/ open spruce
L10W	10+00S	646313	6046970	17cm	Brown	Rocky Sand/ open spruce
L10W	9+50S	646285	6047003	27cm	Brown/Light Brown	Rocky Sand/ open spruce
L10W	9+00S	646271	6047052	33cm	Brown	Rocky Sand/ open spruce
L10W	8+50S	646252	6047093	22cm	Brown	Rocky FS Clay/ open spruce
L10W	8+00S	646222	6047145	25cm	Brown	Rocky FS/ open spruce
L10W	7+50S	646215	6047211	23cm	Brown/Light Brown	Pebbly FS Clay/ open spruce
L10W	7+00S	646197	6047232	25cm	Light Brown	Rocky Pebbly Sand/ open spruce
L10W	6+50S	646162	6047296	20cm	Brown/Light Brown	Rocky Pebbly FS/ ontop of B/R
L10W	6+00S	646145	6047334	23cm	Dark Brown	FS/Clay w/ pebbles/ tight damp spruce

Grouse Mountain
 Soil Sampling of Grid Lines L14W to Lo Trending
 Andrew Canton / Matt Miller-Tait

LINE #	STATION	UTM mE	mN	DEPTH	COLOUR	NOTES
L10W	5+50S	646127	6047385	34cm	Brown/Orange	FS w/ rocks/ tight spruce
L10W	5+00S	646102	6047428	30cm	Brown	Rocky FS/ tight spruce
L10W	4+50S	646092	6047474	29cm	Brown/Light Brown	Rocky FS Clay/ open spruce
L10W	4+00S	646068	6047515	34cm	Brown/Light Brown	Pebbly sand/ open spruce
L10W	3+50S	646047	6047567	24cm	Brown/Dark Brown	Pebbly sand/ open spruce
L10W	3+00S	646034	6047608	32cm	Light Brown	Pebbly FS Clay/ tight spruce
L10W	2+50S	646015	6047654	27cm	Light Brown	Pebbly FS Clay/ tight spruce
L10W	2+00S	645998	6047709	18cm	Light Brown	Pebbly Sand/ collected ontop of o/c
L10W	1+50S	645984	6047752	28cm	Brown	Pebbly sand/ open spruce
L10W	1+00S	645971	6047810	29cm	Brown	Pebbly Sand Clay/ open spruce
L10W	0+50S	645948	6047848	29cm	Brown	Pebbly Sand/ open spruce
L10W	0+00	645936	6047902	15cm	Brown	Pebbly FS/ alder/ off of road
L10W	0+50N	645926	6047953	22cm	Brown	FS Clay/ collected near o/c w/ lots of rock
L10W	1+00N	645904	6047991	25cm	Light Brown	Very Pebbly Sand/ open spruce
L10W	1+50N	645881	6048051	31cm	Brown	Rocky FS Clay/ open spruce
L10W	2+00N	645864	6048080	28cm	Brown	Rocky FS/ open spruce
L10W	2+50N	645859	6048139	21cm	Brown/Light Brown	Pebbly FS Clay/ open spruce
L10W	3+00N	645834	6048166	20cm	Brown/Light Brown	Pebbly FS Clay/ open spruce
L10W	3+50N	645832	6048237	34cm	Brown/Dark Brown	Pebbly Clay/ Large spruce
L10W	4+00N	645809	6048273	30cm	Brown/Light Brown	Pebbly Sand/ open grass
L10W	4+50N	645791	6048322	40cm	Dark Brown	FS Clay/ clay/silt w/ pebbles/ open grass
L10W	5+00N	645776	6048366	29cm	Brown	Pebbly FS Clay/ open grassland
L10W	5+50N	645749	6048416	22cm	Brown/Light Brown	Pebbly FS/ tight spruce
L10W	6+00N	645736	6048471	19cm	Brown	Pebbly FS Clay/ tight spruce
L10W	6+50N	645730	6048519	25cm	Brown/Light Brown	Pebbly FS/ tight spruce
L10W	7+00N	645709	6048549	24cm	Brown	FS w/ pebbles/ tight spruce

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L8W	16+50S	646743	6046399	22cm	Dark Brown	Very Fragmented Rock Soil/ open/edge of tight spruce
L8W	16+00S	646724	6046440	23cm	Brown/Light Brown	Rocky FS/Clay/ open spruce
L8W	15+50S	646702	6046487	29cm	Brown/Red	Very Rocky FS Clay/ tight spruce
L8W	15+00S	646684	6046533	28cm	Brown/Red	Very Rocky FS Clay/ tight spruce
L8W	14+50S	646666	6046585	25cm	Brown/Light Brown	Pebbly FS/ open spruce
L8W	14+00S	646643	6046619	30cm	Brown/Red	Rocky FS/ tight spruce
L8W	13+50S	646628	6046687	26cm	Brown/Light Brown	Pebbly FS Clay/ open spruce
L8W	13+00S	646611	6046729	31cm	Light Brown	Rocky FS/ tight spruce
L8W	12+50S	646587	6046775	27cm	Light Brown	Rocky FS/ open spruce
L8W	12+00S	646572	6046813	37cm	Light Brown	Rocky FS/ open spruce
L8W	11+50S	646558	6046862	30cm	Light Brown	Pebbly FS/ open spruce
L8W	11+00S	646534	6046914	29cm	Brown	Rocky Pebbly FS/ open spruce
L8W	10+50S	646517	6046966	26cm	Light Brown	Pebbly sand/ open spruce
L8W	10+00S	646507	6047006	24cm	Brown/Light Brown	Rocky Pebbly FS/ open spruce

Grouse Mountain
 Soil Sampling of Grid Lines L14W to Lo Trending
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LINE #	STATION	UTM mE	mN	DEPTH	COLOUR	NOTES
L8W	9+50S	646475	6047057	27cm	Brown	Rocky Pebbly sand/FS/ open spruce
L8W	9+00S	646450	6047099	24cm	Light Brown	Pebbly sand/ open spruce
L8W	8+50S	646441	6047151	32cm	Brown/Light Brown	Pebbly sand/ open spruce
L8W	8+00S	646421	6047195	20cm	Brown	Rocky Sand/ open spruce
L8W	7+50S	646411	6047256	30cm	Dark Brown	Pebbly Sandy Clay/ open spruce
L8W	7+00S	646385	6047284	26cm	Light Brown	Pebbly Clay FS/ open spruce
L8W	6+50S	646374	6047350	28cm	Light Brown	Pebbly Sand/ open spruce
L8W	6+00S	646349	6047386	29cm	Light Brown	Rocky FS/ open spruce
L8W	5+50S	646337	6047428	24cm	Brown/Light Brown	Pebbly FS/ open spruce
L8W	5+00S	646312	6047485	24cm	Light Brown	Pebbly FS Clay/ open spruce
L8W	4+50S	646298	6047544	32cm	Brown	Pebbly FS/ open spruce and tight spruce
L8W	4+00S	646280	6047584	23cm	Brown/Light Brown	Pebbly FS/ open spruce
L8W	3+50S	646258	6047625	37cm	Brown	Pebbly Clay/ tight spruce
L8W	3+00S	646237	6047669	26cm	Brown/Light Brown	Pebbly FS/ tight spruce
L8W	2+50S	646232	6047724	24cm	Light Brown	Pebbly sand/ open spruce
L8W	2+00S	646209	6047770	26cm	Brown/Light Brown	Rocky FS/Clay/ open spruce
L8W	1+50S	646187	6047812	30cm	Brown/Orange	FS Clay/ open spruce
L8W	1+00S	646164	6047869	28cm	Light Brown	Rocky FS Clay/ open spruce
L8W	0+50S	646152	6047897	24cm	Light Brown	Pebbly FS Clay/ open spruce
L8W	0+00	646126	6047960	28cm	Brown/Orange	Pebbly FS Clay/ open spruce
L8W	0+50N	646114	6048008	21cm	Brown/Dark Brown	Rocky FS Clay/open spruce
L8W	1+00N	646109	6048060	22cm	Brown	Pebbly FS/ open spruce
L8W	1+50N	646077	6048108	24cm	Brown/Light Brown	Pebbly FS Clay/ open spruce
L8W	2+00N	646055	6048149	25cm	Brown	Rocky FS/ open spruce and pine
L8W	2+50N	646046	6048210	32cm	Brown/Grey	Pebbly Clay/ tight spruce and pine near water
L8W	3+00N	646030	6048247	25cm	Light Brown	Sandy Clay/ open grass and rhubarb
L8W	3+50N	646016	6048294	48cm	Dark Brown	Clay/ Silt/ open grass
L8W	4+00N	645994	6048352	42cm	Brown	Clay/ Silt/ open grass
L8W	4+50N	645982	6048406	26cm	Brown	Pebbly Fs/ tight spruce
L8W	5+00N	645957	6048440	29cm	Brown/Light Brown	Pebbly FS Clay/ tight spruce
L8W	5+50N	645940	6048494	42cm	Brown	Very Rocky FS/ tight spruce and pine
L8W	6+00N	645936	6048540	30cm	Brown/Light Brown	Pebbly FS/ tight spruce
L8W	6+50N	645916	6048572	30cm	Brown/Light Brown	Pebbly FS/ tight spruce
L8W	7+00N	645903	6048629	20cm	Brown	Pebbly FS/ tight spruce
L8W	7+50N	645888	6048667	21cm	Brown/Light Brown	Pebbly Clay/ tight spruce
L6W	6+50N	646035	6048767	20cm	Light Brown	Pebbly Clay/ tight spruce
L6W	6+00N	646061	6048722	22cm	Brown/Light Brown	Pebbly FS/ tight spruce
L6W	5+50N	646074	6048663	24cm	Brown/Light Brown	Pebbly Sand/ opening in spruce
L6W	5+00N	646091	6048613	25cm	Brown/Light Brown	Pebbly FS/ tight spruce
L6W	4+50N	646107	6048563	23cm	Brown/Light Brown	Pebbly FS/ tight spruce
L6W	4+00N	646123	6048521	23cm	Light Brown	Pebbly Sand/ tight spruce and pine
L6W	3+50N	646141	6048471	24cm	Brown	Pebbly Clay/ open spruce near swamp

Grouse Mountain
 Soil Sampling of Grid Lines L14W to Lo Trending
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LINE #	STATION	UTM mE	mN	DEPTH	COLOUR	NOTES
L6W	3+00N	646165	6048433	25cm	Brown	Pebbly FS/ tight spruce
L6W	2+50N	646184	6048385	24cm	Brown	Pebbly FS/ tight spruce
L6W	2+00N	646206	6048358	18cm	Light Brown	Fine Sand ontop of Felds. Porph. O/C
L6W	1+50N	646212	6048299	24cm	Brown/Light Brown	Pebbly FS Clay/ open spruce
L6W	1+00N	646238	6048260	22cm	Brown/Light Brown	Pebbly FS/ open spruce
L6W	0+50N	646267	6048176	30cm	Dark Brown	Clay/Silt/ ontop of V. Sed. B/R
L6W	0+00	646273	6048152	21cm	Light Brown/Grey	Pebbly Sand/ Sample @ edge of road
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L6W	0+50S	646293	6048111	29cm	Brown	FS w/ pebbles/ open spruce
L6W	1+00S	646308	6048068	27cm	Brown/Light Brown	FS w/ pebbles/ open spruce
L6W	1+50S	646320	6048015	22cm	Brown/Light Brown	Pebbly FS Clay/ open spruce
L6W	2+00S	646344	6047967	24cm	Brown/Light Brown	Pebbly Clay/ open spruce
L6W	2+50S	646360	6047915	26cm	Brown/Light Brown	Rocky FS Clay/ open spruce
L6W	3+00S	646382	6047877	30cm	Brown/Light Brown	Pebbly FS Clay/ open spruce
L6W	3+50S	646393	6047822	26cm	Brown/Light Brown	Rocky FS/ open spruce
L6W	4+00S	646425	6047781	31cm	Brown	Rocky Pebbly FS/ open spruce
L6W	4+50S	646432	6047727	33cm	Brown	Rocky Sand/ open spruce
L6W	5+00S	646452	6047686			NO SAMPLE - Feldspar Porphyry O/C
L6W	5+50S	646464	6047624	19cm	Brown/Light Brown	Rocky FS/ tight spruce
L6W	6+00S	646479	6047579	28cm	Brown	Rocky FS/ tight spruce
L6W	6+50S	646510	6047530	26cm	Brown	Rocky FS Clay/ tight spruce
L6W	7+00S	646528	6047477	28cm	Brown/Light Brown	Pebbly Fs/ open spruce
L6W	7+50S	646542	6047435	26cm	Brown	Pebbly FS Clay/ tight spruce
L6W	8+00S	646562	6047405	29cm	Brown/Light Brown	Rocky Sand/ spruce
L6W	8+50S	646592	6047350	23cm	Light Brown	Rocky Sand/ open spruce and pine
L6W	9+00S	646617	6047310	19cm	Light Brown	Rocky FS/ open spruce and pine
L6W	9+50S	646629	6047255	22cm	Light Brown	Rocky FS/ open spruce and pine
L6W	10+00S	646644	6047195	25cm	Brown/Light Brown	Very Rocky FS Clay open spruce and pine
L6W	10+50S	646664	6047156	20cm	Light Brown	Rocky Pebbly sand/ open spruce and pine
L6W	11+00S	646681	6047118	24cm	Brown	Rocky Sand/ open spruce and pine
L6W	11+50S	646699	6047051	27cm	Brown	Rocky FS Clay/ open spruce and pine
L6W	12+00S	646723	6047010	32cm	Brown/Light Brown	Rocky Sand/ open spruce
L6W	12+50S	646741	6046970	18cm	Light Brown	Rocky Sand/ Collected within talus
L6W	13+00S	646752	6046934	22cm	Brown/Light Brown	Rocky Sand / open spruce and pine
L6W	13+50S	646774	6046872	25cm	Brown/Light Brown	Rocky Sand/ open spruce and pine/ small sample
L6W	14+00S	646795	6046827	10cm	Light Brown	Fragmented rock/ collected ontop of bedrock
L6W	14+50S	646816	6046785	17cm	Light Brown	Rocky Sand/ collected ontop of bedrock
L6W	15+00S	646828	6046739	32cm	Brown/Dark Brown	Very Rocky FS Clay/ open grass
L6W	15+50S	646851	6046689	28cm	Light Brown	Pebbly Clay/ open grass meadow
L4W	13+00S	646931	6046961	27cm	Brown/Dark Brown	Sandy Clay/ open grass, edge of spruce

Grouse Mountain
 Soil Sampling of Grid Lines L14W to Lo Trending
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LINE #	STATION	UTM mE	mN	DEPTH	COLOUR	NOTES
L4W	12+50S	646913	6047017	30cm	Brown	Rocky FS/Spruce and pine
L4W	12+00S	646902	6047053	23cm	Light Brown	Pebbly Sand/ open spruce and pine
L4W	11+50S	646886	6047102	24cm	Light Brown	Rocky FS/ open spruce
L4W	11+00S	646870	6047147	26cm	Brown/Light Brown	Rocky Clay/ open spruce
L4W	10+50S	646850	6047194	24cm	Light Brown	Rocky FS/ open spruce near o/c
L4W	10+00S	646831	6047247	27cm	Light Brown	Rocky FS/ tight spruce
L4W	9+50S	646818	6047280	23cm	Brown	Pebbly FS Clay/ tight spruce
L4W	9+00S	646794	6047334	13cm	Light Brown	Clay/Silt/ ontop of bedrock
L4W	8+50S	646781	6047390	24cm	Brown/Light Brown	Pebbly FS Clay/ open spruce
L4W	8+00S	646762	6047422	25cm	Brown/Light Brown	Rocky FS Clay open spruce
L4W	7+50S	646740	6047472	23cm	Brown	Pebbly FS/ tight spruce
L4W	7+00S	646723	6047535	31cm	Brown/Red	Pebbly FS Clay/ tight spruce
L4W	6+50S	646706	6047577	25cm	Brown	Rocky Clay/ tight spruce
L4W	6+00S	646692	6047622	26cm	Brown	Pebbly Clay Sand/ tight spruce
L4W	5+50S	646676	6047668	12cm	Light Brown	Sand/Clay ontop of bedrock
L4W	5+00S	646652	6047713	29cm	Brown	Pebbly FS Clay/ in spruce
L4W	4+50S	646637	6047756	28cm	Brown/Light Brown	Pebbly FS Clay/ in spruce
L4W	4+00S	646623	6047801	26cm	Brown/Light Brown	Pebbly Rocky Clay/ open spruce
L4W	3+50S	646601	6047862	27cm	Brown	Pebbly FS/ tight spruce
L4W	3+00S	646589	6047895	15cm	Brown/Light Brown	Pebbly FS/ tight spruce
L4W	2+50S	646569	6047939	29cm	Brown/Orange	Rocky Fs Clay/ open spruce
L4W	2+00S	646545	6047996	23cm	Brown/Light Brown	Rocky FS/ open spruce
L4W	1+50S	646533	6048034	27cm	Brown	Pebbly Sandy Clay/ open spruce
L4W	1+00S	646512	6048083	24cm	Brown	Pebbly Clay/ open spruce
L4W	0+50S	646488	6048125	27cm	Brown/Orange	Clay w/ pebles/ open spruce
L4W	0+00	646465	6048208	17cm	Light Brown	FS Clay/ grass and spruce
L4W	0+50N	646448	6048258	30cm	Light Brown	Wet Pebbly Clay near drainage
L4W	1+00N	646432	6048267	26cm	Brown	Pebbly Clay/ tight spruce
L4W	1+50N	646413	6048304	30cm	Brown	Rocky FS/ open spruce
L4W	2+00N	646392	6048351	33cm	Dark Brown	Sandy Clay/ open grass
L4W	2+50N	646373	6048411	29cm	Brown/Orange	Rocky Clay/ tight spruce
L4W	3+00N	646357	6048433	30cm	Dark Brown	Clay/ tight spruce
L4W	3+50N	646342	6048501	40cm	Dark Brown	Clay/Silt (wet)/ in swamp
L4W	4+00N	646333	6048545	27cm	Brown/Light Brown	Rocky FS Clay/ tight spruce
L4W	4+50N	646313	6048602	24cm	Brown	Very Rocky Clay/ tight spruce
L4W	5+00N	646301	6048641	26cm	Brown	Pebbly FS/ tight spruce
L4W	5+50N	646280	6048686	45cm	Brown	Rocky FS/ tight spruce
L4W	6+00N	646268	6048739	22cm	Light Brown	Rocky Sand/ tight spruce
L4W	6+50N	646246	6048778	27cm	Light Brown	Pebbly Sand/ tight spruce and pine
L4W	7+00N	646228	6048837	26cm	Light Brown	Pebbly sand/ tight spruce
L4W	7+50N	646216	6048868	24cm	Light Brown/Oragne	Pebbly sand/ tight spruce

Grouse Mountain
 Soil Sampling of Grid Lines L14W to Lo Trending
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LINE #	STATION	UTM mE	mN	DEPTH	COLOUR	NOTES
L2W	5+50N	646364	6049026	20cm	Light Brown	Rocky FS Clay/ tight spruce
L2W	5+00N	646387	6048988	25cm	Light Brown/Grey	Fragmented Rock and Soil/ ontop of Bedrock
L2W	4+50N	646409	6048938	25cm	Brown/Dark Brown	Rocky Clay/ tight spruce
L2W	4+00N	646420	6048906	28cm	Brown/Orange	Fragmented Rock and soil/ tight spruce
L2W	3+50N	646442	6048857	27cm	Brown/Light Brown	Rocky FS/ tight spruce
L2W	3+00N	646454	6048816	27cm	Brown	Rocky Fs Clay/ tight spruce
L2W	2+50N	646472	6048760	32cm	Brown/Dark Brown	Pebbly Clay/ tight spruce
L2W	2+00N	646489	6048701	31cm	Brown	Rocky FS Clay/ tight spruce
L2W	1+50N	646507	6048650	23cm	Brown	Rocky Silt/Clay/ intop of bedrock
L2W	1+00N	646524	6048598	31cm	Brown	Rocky FS/ tight spruce
L2W	0+50N	646534	6048554	27cm	Light Brown	Rocky FS/ edge of road
L2W	0+00	646557	6048512	29cm	Brown/Dark Brown	Pebbly Clay/ edge of road
L2W	0+50S	646571	6048459	23cm	Brown	Very Rocky FS Clay/ tight spruce
L2W	1+00S	646602	6048417	26cm	Light Brown	Pebbly Sand / tight spruce
L2W	1+50S	646616	6048373	29cm	Brown/Light Brown	Rocky FS Clay/ tight spruce
L2W	2+00S	646635	6048327	29cm	Brown	Rocky FS/ tight spruce
L2W	2+50S	646647	6048281	24cm	Brown/Light Brown	Rocky FS/ tight spruce
L2W	3+00S	646661	6048238	18cm	Light Brown	Pebbly Fs/ open spruce
L2W	3+50S	646688	6048196	27cm	Brown/Light Brown	Pebbly Fs/ open spruce
L2W	4+00S	646706	6048149	25cm	Brown	Pebbly Clay/ edge of old road
L2W	4+50S	646722	6048108	34cm	Brown/Dark Brown	Rocky Clay/ at bottom of o/c
L2W	5+00S	646731	6048061	30cm	Light Brown	Rocky FS/ open spruce and pine
L2W	5+50S	646755	6048013	28cm	Light Brown	Pebbly Fs/ edge of old road cut
L2W	6+00S	646774	6047969	20cm	Brown/Light Brown	Rocky FS/ opening in spruce
L2W	6+50S	646787	6047922	22cm	Light Brown	Pebbly Fs/ opening in spruce
L2W	7+00S	646807	6047871	23cm	Brown/Orange	Very Rocky FS Clay/ edge tight spruce
L2W	7+50S	646824	6047830	25cm	Light Brown	Pebbly Clay/ open spruce
L2W	8+00S	646847	6047780	24cm	Light Brown	Coarse to FS/ collected ontop of bedrock
L2W	8+50S	646870	6047745	28cm	Light Brown	Very Rocky FS Clay/ tight spruce
L2W	9+00S	646889	6047692	18cm	Light Brown	Pebbly Clay/ collected ontop of bedrock
L2W	9+50S	646909	6047648	22cm	Brown/Light Brown	Rocky FS Clay/ edge of spruce
L2W	10+00S	646928	6047599	29cm	Brown/Light Brown	Rocky Pebbly FS/ tight spruce
L2W	10+50S	646944	6047558	23cm	Brown/Light Brown	Rocky FS/ tight spruce
L2W	11+00S	646970	6047512	25cm	Brown/Light Brown	Rocky FS/ tight spruce
L2W	11+50S	646989	6047463	26cm	Brown/Light Brown	Rocky FS/ in spruce
L2W	12+00S	647006	6047423	23cm	Light Brown	Rocky FS/ open spruce ontop of Bedrock
L2W	12+50S	647021	6047375	28cm	Light Brown	FS/Clay w/ pebbles open spruce
L2W	13+00S	647049	6047333	30cm	Brown/Light Brown	Rocky FS/ open spruce
L2W	13+50S	647060	6047289	37cm	Brown	Very Fragmented Rock and soil/ talus w/spruce
L2W	14+00S	647081	6047246	28cm	Brown	Rocky FS/ edge of tight spruce
L2W	14+50S	647103	6047192	25cm	Light Brown	Pebbly FS/ Clay/ tight spruce

Grouse Mountain

Soil Sampling of Grid Lines L14W to Lo Trending

Andrew Canton / Matt Miller-Tait

LINE #	STATION	UTM mE	mN	DEPTH	COLOUR	NOTES
LO	10+50S	647125	6047584	27cm	Light Brown	Rocky FS/ tight spruce
LO	10+00S	647105	6047636	23cm	Brown/Light Brown	Rocky FS/ open spruce
LO	9+50S	647091	6047672	20cm	Brown/Dark Brown	Pebbly Clay/ tight spruce pocket surrounded by swamp
LO	9+00S	647071	6047729	16cm	Brown/Light Brown	Fragmented Rock and Soil/ ontop of bedrock
LO	8+50S	647059	6047767	24cm	Brown/Light Brown	Rocky FS/ tight spruce
LO	8+00S	647033	6047811	26cm	Brown	Very Rocky FS Clay/ collected between talus
LO	7+50S	647014	6047857	24cm	Brown/Light Brown	Rocky Fs/ near o/c in spruce
LO	7+00S	646997	6047895	27cm	Brown/Light Brown	Pebbly FS Clay/ opening in spruce
LO	6+50S	646978	6047952	26cm	Brown/Dark Brown	Rocky FS Clay/ edge of swamp
LO	6+00S	646961	6047998	21cm	Brown/Light Brown	Rocky FS/ spruce
LO	5+50S	646944	6048043	25cm	Brown	Pebbly FS/ tight spruce
LO	5+00S	646927	6048090	22cm	Brown/Dark Brown	Pebbly FS/ between road and swamp
LO	4+50S	646903	6048137			NO SAMPLE - BLASTED OUTCROP
LO	4+00S	646885	6048185	23cm	Dark Brown	Pebbly Clay/ tight spruce (old Drill site)
LO	3+50S	646859	6048232	28cm	Brown/Light Brown	Sand w/ rocks/ open spruce
LO	3+00S	646843	6048279	24cm	Brown	Rocky Pebbly Sand/ open spruce
LO	2+50S	646823	6048324	48cm	Dark Brown	Pebbly Clay/ tight spruce
LO	2+00S	646814	6048374	22cm	Brown	Rocky FS/ tight spruce
LO	1+50S	646794	6048416	23cm	Brown/Light Brown	Rocky Clay/ ontop of Bedrock, spruce
LO	1+00S	646773	6048462	23cm	Brown/Light Brown	Pebbly Clay/ open spruce
LO	0+50S	646754	6048509	27cm	Dark Brown	Fragmented Rock soil/ ontop of Bedrock
LO	0+00	646737	6048556	20cm	Light Brown	Pebbly Sand/ edge of road and spruce
LO	0+50N	646719	6048605	30cm	Light Brown	Clay w/ pebbles/ open spruce
LO	1+00N	646701	6048642	24cm	Brown/Light Brown	Rocky FS Clay/ tight spruce
LO	1+50N	646689	6048691	29cm	Dark Brown	Fragmented Rock and clay/ tight spruce
LO	2+00N	646669	6048743	19cm	Light Brown	Sand FS/ ontop of Bedrock, tight spruce
LO	2+50N	646655	6048800	35cm	Dark Brown	Poor Sample mostly biomass - swamp
LO	3+00N	646638	6048838	22cm	Light Brown	Rocky FS/ tight spruce
LO	3+50N	646615	6048883	27cm	Dark Brown	Fragmented Rock and soil near trench
LO	4+00N	646601	6048936	29cm	Brown/Dark Brown	Poor Sample near swamp - Clay
LO	4+50N	646588	6048983	28cm	Brown/Light Brown	Very Rocky Fs/ tight spruce
LO	5+00N	646573	6049029	25cm	Light Brown	Rocky FS/ opening in spruce
LO	5+50N	646559	6049081	27cm	Dark Brown	Pebbly Clay/ low lying spruce
LO	6+00N	646538	6049122	28cm	Brown	Pebbly FS Clay/ edge of spruce

SECTION E: ANALYTICAL REPORTS

2009 Soil and Rock Geochem Sampling:

1. Analytical Certificates

File Number	Date of Certificate	No. of Samples	Analytical Procedure
Acme Analytical Laboratories Ltd., Vancouver, BC			
SMI09000146.1	August 24, 2009	356	1DX
SMI09000145.1	August 26, 2009	6	1E

2. Analytical Procedures (Acme Analytical Laboratories Ltd.)

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



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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 17, 2009
Report Date: August 24, 2009
Page: 1 of 13

CERTIFICATE OF ANALYSIS

SMI09000146.1

CLIENT JOB INFORMATION

Project: Grouse Mountain
Shipment ID: 2009_2
P.O. Number
Number of Samples: 357

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

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

CC: Jim Miller-Tait
Eugene Beukman
Erik Andersen

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	356	Dry at 60C sieve 100g to -80 mesh			SMI
Dry at 60C	356	Dry at 60C			VAN
1DX	356	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



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

Project: Grouse Mountain
 Report Date: August 24, 2009

Page: 2 of 13 Part 1

CERTIFICATE OF ANALYSIS

SMI09000146.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX 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
LO 000	Soil			0.9	18.7	27.8	1033	0.2	7.8	6.4	541	3.40	14.7	0.2	1.3	0.4	11	1.2	0.2	0.6	61	0.14	0.030
LO 050N	Soil			0.9	331.1	84.4	3771	2.6	12.2	8.0	1093	3.77	18.7	0.5	13.4	0.3	18	6.6	0.9	1.8	46	0.41	0.088
LO 100N	Soil			1.1	29.0	35.1	1024	0.6	8.8	11.1	918	4.22	20.9	0.2	0.9	0.5	26	1.5	0.3	0.6	67	0.56	0.049
LO 150N	Soil			4.0	129.6	86.4	1079	2.9	11.1	11.7	3226	3.86	24.4	1.6	2.3	0.3	71	7.1	0.9	0.5	52	1.84	0.192
LO 200N	Soil			0.9	32.8	32.4	904	0.2	12.3	10.6	1852	3.83	16.3	0.3	<0.5	0.4	19	1.4	0.2	0.4	56	0.34	0.059
LO 250N	Soil			1.1	124.4	35.3	1076	2.7	9.4	7.1	1323	2.79	11.6	0.7	3.3	0.3	89	7.3	0.5	0.3	35	1.89	0.176
LO 300N	Soil			0.8	14.4	20.5	344	<0.1	7.3	6.0	418	3.36	14.9	0.2	<0.5	0.4	21	0.4	0.2	0.3	63	0.33	0.039
LO 350N	Soil			6.6	150.8	103.5	306	0.8	3.5	8.0	1799	6.13	123.0	0.1	14.9	0.2	52	2.4	0.7	3.4	41	0.61	0.093
LO 400N	Soil			1.3	165.2	31.9	652	2.5	15.7	8.9	1516	3.63	22.1	1.5	2.2	0.5	58	2.7	0.8	0.3	58	1.24	0.126
LO 450N	Soil			0.8	11.0	14.1	173	0.3	5.9	6.2	394	3.22	8.1	0.2	<0.5	0.3	10	0.7	0.2	0.2	68	0.12	0.049
LO 500N	Soil			0.7	19.2	9.2	199	0.3	9.3	7.2	680	2.70	6.3	0.3	<0.5	0.1	13	0.3	0.2	0.2	58	0.17	0.052
LO 550N	Soil			1.2	39.8	14.9	243	0.4	13.2	8.4	748	3.19	8.1	0.6	<0.5	0.1	16	0.6	0.2	0.2	54	0.24	0.081
LO 600N	Soil			0.9	36.4	20.7	263	0.2	15.4	10.0	614	3.58	14.1	0.3	5.7	0.3	9	0.5	0.2	0.2	57	0.12	0.047
LO 0050S	Soil			4.3	953.8	574.9	8456	9.5	9.8	24.4	>10000	5.84	45.7	0.4	116.9	0.2	44	56.7	2.3	8.2	41	1.16	0.205
LO 0100S	Soil			1.0	17.5	15.0	327	0.3	12.8	7.2	338	3.97	15.0	0.2	<0.5	0.5	7	0.6	0.4	0.2	80	0.07	0.039
LO 0150S	Soil			1.3	33.9	40.2	302	0.5	4.5	7.0	1836	3.53	11.2	0.1	<0.5	<0.1	10	1.8	0.3	1.2	58	0.13	0.108
LO 0200S	Soil			2.6	25.6	44.2	758	0.6	8.6	8.8	1829	3.83	17.2	0.2	0.5	0.3	10	1.8	0.3	0.9	51	0.18	0.042
LO 0250S	Soil			2.4	1131	77.4	7377	8.2	16.8	14.1	1645	3.57	41.8	1.2	20.6	0.6	37	37.5	1.2	1.5	48	0.76	0.156
LO 0300S	Soil			1.7	43.8	33.2	560	0.3	14.6	13.0	1078	4.36	38.7	0.3	<0.5	0.3	15	1.0	0.4	0.4	85	0.28	0.050
LO 0350S	Soil			2.0	61.9	38.4	1030	0.2	16.1	10.1	596	4.28	24.5	0.4	<0.5	0.7	10	1.5	0.2	0.8	84	0.10	0.035
LO 0400S	Soil			3.2	281.8	49.7	2035	0.8	20.3	13.7	1540	4.02	34.5	0.5	0.7	0.2	26	6.0	0.7	1.0	72	0.48	0.083
LO 0500S	Soil			2.4	78.8	32.5	1976	1.0	16.7	11.0	925	3.36	17.6	0.5	<0.5	0.2	18	2.0	0.3	0.8	64	0.20	0.056
LO 0550S	Soil			1.8	27.6	48.0	723	0.3	12.3	8.2	551	4.81	32.1	0.2	1.0	0.3	7	1.1	0.5	0.6	79	0.06	0.042
LO 0600S	Soil			3.5	29.0	32.5	403	0.2	16.6	10.7	508	4.80	29.1	0.2	<0.5	0.5	9	0.7	0.5	0.2	108	0.10	0.041
LO 0650S	Soil			1.8	57.3	132.8	834	2.6	10.4	6.2	423	4.48	26.5	0.3	6.9	0.2	7	1.3	0.6	0.7	61	0.08	0.062
LO 0700S	Soil			1.7	45.9	214.8	752	0.6	12.3	11.3	918	5.16	31.9	0.3	1.7	0.2	8	1.6	0.7	0.3	78	0.09	0.066
LO 0750S	Soil			0.9	32.5	37.1	234	0.2	14.8	8.0	350	3.17	17.4	0.2	<0.5	0.2	8	0.4	0.3	0.2	74	0.08	0.064
LO 0800S	Soil			1.6	22.4	31.0	289	0.2	10.1	11.1	2061	4.29	18.6	0.2	<0.5	<0.1	21	1.6	0.4	0.2	92	0.50	0.079
LO 0850S	Soil			1.5	19.8	17.6	220	0.2	14.6	9.8	606	4.87	14.9	0.2	<0.5	0.4	13	0.8	0.4	0.2	121	0.17	0.091
LO 0900S	Soil			1.5	11.2	15.7	189	0.1	8.6	8.2	807	4.20	11.4	0.1	<0.5	0.2	13	0.6	0.3	0.2	79	0.29	0.084

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method	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	
Unit	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	0.01	0.05	1	0.5	
LO 000	Soil	6	16	0.50	110	0.009	<20	2.07	0.004	0.04	<0.1	0.02	3.3	<0.1	<0.05	7	<0.5
LO 050N	Soil	15	19	0.68	31	0.014	<20	1.95	0.005	0.05	<0.1	0.33	7.6	<0.1	<0.05	5	1.2
LO 100N	Soil	8	17	0.44	88	0.010	<20	2.12	0.006	0.05	0.1	0.05	4.0	<0.1	<0.05	7	<0.5
LO 150N	Soil	22	20	0.29	185	0.016	<20	2.34	0.009	0.04	<0.1	0.18	5.2	<0.1	0.14	6	2.1
LO 200N	Soil	9	18	0.65	406	0.006	<20	2.63	0.005	0.04	<0.1	0.03	4.2	0.2	<0.05	7	<0.5
LO 250N	Soil	30	18	0.20	238	0.010	<20	2.39	0.018	0.04	<0.1	0.26	5.9	<0.1	0.14	5	1.1
LO 300N	Soil	5	11	0.46	141	0.007	<20	2.04	0.004	0.04	<0.1	0.01	3.1	0.1	<0.05	8	<0.5
LO 350N	Soil	8	6	0.03	224	0.006	<20	0.87	0.002	0.04	0.2	0.04	1.9	<0.1	<0.05	4	<0.5
LO 400N	Soil	71	25	0.48	481	0.006	<20	3.25	0.018	0.09	<0.1	0.19	13.5	0.1	0.05	7	2.3
LO 450N	Soil	6	3	0.25	137	0.014	<20	1.41	0.004	0.05	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5
LO 500N	Soil	7	16	0.53	193	0.010	<20	1.96	0.006	0.05	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5
LO 550N	Soil	8	21	0.50	244	0.005	<20	2.60	0.007	0.06	<0.1	0.05	1.6	<0.1	<0.05	7	<0.5
LO 600N	Soil	7	21	0.74	200	0.007	<20	2.55	0.009	0.06	<0.1	0.04	3.4	0.1	<0.05	6	<0.5
LO 0050S	Soil	22	12	0.42	158	0.009	<20	2.09	0.005	0.04	0.1	0.59	6.4	0.1	0.14	5	2.4
LO 0100S	Soil	5	26	0.49	86	0.016	<20	2.38	0.004	0.03	<0.1	0.03	3.4	<0.1	<0.05	7	<0.5
LO 0150S	Soil	6	9	0.14	185	0.008	<20	1.25	0.003	0.04	0.2	0.07	1.5	<0.1	<0.05	7	<0.5
LO 0200S	Soil	8	14	0.52	73	0.014	<20	1.90	0.004	0.04	0.2	0.06	2.4	<0.1	<0.05	7	<0.5
LO 0250S	Soil	49	25	0.53	91	0.021	<20	3.70	0.013	0.05	<0.1	0.63	13.5	<0.1	<0.05	5	2.6
LO 0300S	Soil	10	24	0.63	134	0.011	<20	2.47	0.006	0.06	<0.1	0.02	4.1	0.1	<0.05	7	<0.5
LO 0350S	Soil	8	24	0.65	184	0.009	<20	3.12	0.006	0.05	<0.1	0.04	5.5	0.1	<0.05	10	<0.5
LO 0400S	Soil	12	27	0.78	221	0.008	<20	2.74	0.008	0.07	0.7	0.05	4.1	0.1	<0.05	7	0.7
LO 0500S	Soil	10	26	0.68	188	0.008	<20	2.97	0.006	0.05	<0.1	0.05	3.4	0.2	<0.05	7	0.5
LO 0550S	Soil	5	26	0.62	85	0.015	<20	2.36	0.004	0.04	<0.1	0.04	3.4	<0.1	<0.05	7	<0.5
LO 0600S	Soil	5	30	0.77	90	0.018	<20	2.68	0.006	0.05	<0.1	0.04	4.6	0.1	<0.05	8	<0.5
LO 0650S	Soil	5	21	0.44	54	0.012	<20	2.61	0.009	0.03	0.2	0.10	2.5	<0.1	<0.05	7	<0.5
LO 0700S	Soil	5	25	0.56	61	0.013	<20	2.29	0.003	0.04	<0.1	0.05	3.0	<0.1	<0.05	7	<0.5
LO 0750S	Soil	5	23	0.65	135	0.008	<20	2.61	0.005	0.05	<0.1	0.03	2.9	0.1	<0.05	7	<0.5
LO 0800S	Soil	5	19	0.42	158	0.025	<20	1.81	0.005	0.05	<0.1	0.03	2.2	<0.1	<0.05	8	<0.5
LO 0850S	Soil	5	32	0.55	132	0.055	<20	1.67	0.005	0.05	0.1	0.02	3.4	<0.1	<0.05	9	<0.5
LO 0900S	Soil	5	18	0.30	95	0.015	<20	1.72	0.003	0.05	<0.1	0.02	2.8	<0.1	<0.05	9	<0.5

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Project: Grouse Mountain
 Report Date: August 24, 2009

Page: 3 of 13 Part 1

CERTIFICATE OF ANALYSIS

SMI09000146.1

Method Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX 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
LO 0950S	Soil		2.8	25.3	17.4	487	0.2	10.7	8.6	871	3.32	16.2	0.2	<0.5	<0.1	56	1.6	0.4	0.2	58	1.20	0.080
LO 1000S	Soil		1.5	15.5	43.8	294	0.2	11.3	7.1	287	4.47	26.3	0.2	<0.5	0.5	7	0.6	0.6	0.1	97	0.07	0.041
LO 1050S	Soil		1.3	13.5	27.1	217	0.2	10.2	6.2	353	3.91	21.6	0.2	<0.5	0.5	7	0.4	0.4	0.2	81	0.06	0.056
L2W 0000	Soil		1.8	57.5	78.8	8044	0.6	13.7	17.4	3136	4.18	35.8	0.4	1.7	0.3	36	31.4	0.9	0.8	60	0.66	0.120
L2W 0050S	Soil		2.0	14.9	35.9	665	0.4	6.0	6.5	514	4.01	13.8	0.1	2.9	0.2	14	1.2	0.3	1.0	69	0.24	0.036
L2W 0100S	Soil		1.4	11.7	17.4	214	0.1	6.6	5.1	250	3.74	16.6	0.1	<0.5	0.3	7	0.6	0.4	0.4	95	0.06	0.030
L2W 0150S	Soil		1.3	119.2	368.0	1387	1.3	12.4	9.4	824	5.11	29.1	0.2	3.5	0.9	6	1.4	0.6	6.6	57	0.09	0.077
L2W 0200S	Soil		1.6	15.1	22.5	413	0.6	7.6	7.4	543	4.91	19.3	0.1	<0.5	0.6	9	0.8	0.4	0.4	70	0.12	0.068
L2W 0250S	Soil		2.1	19.0	39.2	483	0.4	8.0	6.4	833	4.69	24.7	0.2	<0.5	0.3	10	1.1	0.3	0.5	72	0.14	0.058
L2W 0300S	Soil		1.3	38.1	35.2	842	0.3	16.1	9.5	605	3.97	23.3	0.2	1.1	0.4	13	1.0	0.3	0.6	79	0.13	0.032
L2W 0350S	Soil		1.5	32.4	26.0	709	0.3	11.8	7.7	493	3.88	29.3	0.2	<0.5	0.6	13	1.3	0.5	0.5	76	0.11	0.049
L2W 0400S	Soil		2.2	112.4	88.5	1211	0.5	20.0	16.3	1150	4.47	49.7	0.5	<0.5	0.3	19	3.7	1.0	0.8	79	0.29	0.066
L2W 0450S	Soil		1.8	34.8	45.6	398	0.3	10.0	15.2	1481	4.55	20.5	0.3	<0.5	<0.1	16	1.1	0.3	0.7	84	0.25	0.083
L2W 0500S	Soil		1.6	14.2	48.1	299	0.2	6.9	5.4	435	4.37	19.1	0.3	<0.5	0.6	7	0.4	0.3	0.8	88	0.05	0.058
L2W 0550S	Soil		1.6	72.3	42.8	910	0.1	24.6	12.5	646	4.86	37.4	0.5	<0.5	1.3	8	0.9	0.6	0.5	92	0.08	0.062
L2W 0600S	Soil		1.7	23.9	74.4	419	1.8	8.6	5.4	293	4.85	24.7	0.2	<0.5	0.2	9	1.0	0.6	0.5	95	0.08	0.050
L2W 0650S	Soil		1.5	88.7	86.1	975	0.5	16.9	10.2	506	4.49	25.0	0.4	2.2	0.8	6	0.7	0.5	0.4	70	0.06	0.049
L2W 0700S	Soil		2.6	18.1	210.6	361	1.0	5.8	7.2	743	5.60	60.6	0.2	0.8	0.2	10	1.0	1.2	0.3	74	0.11	0.069
L2W 0750S	Soil		2.3	32.4	49.5	306	0.2	21.0	11.4	435	4.21	35.1	0.3	3.4	0.9	9	0.4	0.7	0.2	89	0.07	0.090
L2W 0800S	Soil		2.9	108.9	16.2	100	<0.1	51.8	18.4	227	5.54	9.4	1.1	1.0	4.1	37	<0.1	0.2	<0.1	217	1.21	0.629
L2W 0850S	Soil		3.2	21.1	61.3	416	0.8	13.7	8.5	859	4.46	15.9	0.2	<0.5	0.2	11	1.1	0.5	0.2	80	0.10	0.097
L2W 0900S	Soil		5.2	86.1	17.5	112	<0.1	34.4	12.5	340	4.38	12.1	0.9	<0.5	2.9	26	<0.1	0.4	0.1	163	0.79	0.436
L2W 0950S	Soil		2.2	16.3	20.2	186	0.1	14.2	8.9	456	4.59	15.4	0.3	0.7	0.2	15	0.2	0.5	0.1	105	0.18	0.074
L2W 1000S	Soil		1.1	14.6	18.5	222	0.2	11.8	10.3	698	4.25	13.6	0.2	<0.5	0.4	16	0.5	0.3	0.2	88	0.24	0.104
L2W 1050S	Soil		1.5	15.3	16.5	233	0.1	14.9	8.4	349	4.09	18.4	0.3	<0.5	0.7	11	0.6	0.5	0.2	66	0.09	0.103
L2W 1100S	Soil		1.4	12.4	25.4	289	0.1	12.0	7.8	389	4.02	15.7	0.3	<0.5	0.4	9	0.6	0.5	0.1	91	0.09	0.131
L2W 1150S	Soil		1.6	16.0	41.1	420	0.2	12.9	8.4	455	4.29	19.0	0.2	<0.5	0.4	10	1.0	0.5	0.2	83	0.10	0.105
L2W 1200S	Soil		3.6	21.4	30.6	205	0.2	10.6	8.4	304	4.48	25.9	0.3	<0.5	0.3	8	0.4	0.5	0.2	100	0.06	0.063
L2W 1250S	Soil		0.7	31.4	18.1	92	0.2	15.3	7.6	268	2.74	10.7	0.5	1.1	0.8	8	0.1	0.4	0.1	52	0.07	0.034
L2W 1300S	Soil		1.8	21.7	18.9	182	0.2	15.2	8.7	349	4.39	20.3	0.3	<0.5	0.7	8	0.3	0.6	0.2	78	0.07	0.120

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method	Analyte	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
Unit		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	0.05	1	0.5	
LO 0950S	Soil	5	20	0.48	100	0.018	<20	1.77	0.005	0.04	<0.1	0.05	2.9	<0.1	<0.05	6	<0.5
LO 1000S	Soil	4	25	0.48	75	0.021	<20	2.19	0.004	0.02	<0.1	0.03	3.5	<0.1	<0.05	7	<0.5
LO 1050S	Soil	4	21	0.43	70	0.021	<20	1.85	0.004	0.02	0.1	0.03	2.9	<0.1	<0.05	7	<0.5
L2W 0000	Soil	9	21	0.65	99	0.011	<20	2.24	0.005	0.04	0.1	0.07	4.7	<0.1	<0.05	7	0.8
L2W 0050S	Soil	5	12	0.33	92	0.014	<20	1.54	0.005	0.03	0.2	0.03	1.9	<0.1	<0.05	9	<0.5
L2W 0100S	Soil	5	14	0.21	91	0.019	<20	1.38	0.004	0.02	0.1	0.01	2.0	<0.1	<0.05	8	<0.5
L2W 0150S	Soil	7	18	0.59	64	0.007	<20	2.95	0.004	0.03	0.1	0.11	3.5	<0.1	<0.05	6	0.7
L2W 0200S	Soil	6	14	0.42	84	0.011	<20	1.92	0.008	0.04	0.2	0.03	2.4	<0.1	<0.05	8	<0.5
L2W 0250S	Soil	5	15	0.42	99	0.009	<20	2.01	0.007	0.03	0.1	0.04	2.2	<0.1	<0.05	7	<0.5
L2W 0300S	Soil	6	25	0.71	146	0.020	<20	2.19	0.007	0.04	<0.1	0.02	3.1	<0.1	<0.05	8	<0.5
L2W 0350S	Soil	7	17	0.52	137	0.014	<20	2.11	0.006	0.04	0.1	0.05	3.0	<0.1	<0.05	7	<0.5
L2W 0400S	Soil	14	27	0.75	123	0.016	<20	2.41	0.007	0.08	0.2	0.05	5.4	0.1	<0.05	6	<0.5
L2W 0450S	Soil	5	17	0.37	131	0.014	<20	2.12	0.007	0.04	0.1	0.05	1.5	<0.1	<0.05	9	<0.5
L2W 0500S	Soil	6	15	0.30	74	0.016	<20	1.91	0.006	0.05	0.1	0.05	2.9	<0.1	<0.05	9	<0.5
L2W 0550S	Soil	7	34	0.84	158	0.019	<20	4.20	0.007	0.07	<0.1	0.05	6.7	0.1	<0.05	9	<0.5
L2W 0600S	Soil	5	19	0.41	64	0.019	<20	1.83	0.005	0.03	0.2	0.05	2.2	<0.1	<0.05	7	<0.5
L2W 0650S	Soil	5	25	0.73	91	0.014	<20	3.39	0.005	0.03	0.1	0.08	4.5	<0.1	<0.05	7	<0.5
L2W 0700S	Soil	5	15	0.22	66	0.015	<20	1.34	0.004	0.03	0.2	0.07	1.7	<0.1	<0.05	7	<0.5
L2W 0750S	Soil	8	27	0.68	112	0.025	<20	2.67	0.006	0.05	0.1	0.05	3.9	<0.1	<0.05	7	<0.5
L2W 0800S	Soil	64	36	1.29	41	0.105	<20	1.84	0.014	0.04	0.5	0.03	1.5	<0.1	<0.05	7	<0.5
L2W 0850S	Soil	6	21	0.56	100	0.034	<20	2.39	0.005	0.07	0.1	0.09	2.7	<0.1	<0.05	9	<0.5
L2W 0900S	Soil	45	31	1.05	72	0.082	<20	1.88	0.013	0.05	0.4	0.04	2.1	<0.1	<0.05	8	<0.5
L2W 0950S	Soil	4	24	0.66	116	0.041	<20	2.25	0.007	0.06	0.1	0.04	3.4	<0.1	<0.05	9	<0.5
L2W 1000S	Soil	5	23	0.47	177	0.035	<20	1.68	0.009	0.05	0.2	0.02	2.9	<0.1	<0.05	9	<0.5
L2W 1050S	Soil	7	18	0.52	83	0.046	<20	2.91	0.006	0.03	0.1	0.06	2.9	<0.1	<0.05	11	<0.5
L2W 1100S	Soil	5	18	0.46	70	0.031	<20	1.64	0.006	0.03	0.2	0.03	2.2	<0.1	<0.05	7	<0.5
L2W 1150S	Soil	6	20	0.55	89	0.029	<20	2.10	0.007	0.03	0.2	0.05	2.7	<0.1	<0.05	7	<0.5
L2W 1200S	Soil	6	19	0.53	69	0.039	<20	2.34	0.007	0.03	1.5	0.06	3.3	<0.1	<0.05	9	<0.5
L2W 1250S	Soil	9	22	0.56	106	0.019	<20	2.39	0.009	0.02	<0.1	0.03	3.6	<0.1	<0.05	6	<0.5
L2W 1300S	Soil	5	23	0.61	81	0.024	<20	2.76	0.007	0.04	0.2	0.07	3.6	<0.1	<0.05	8	<0.5

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX 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
L2W 1350S	Soil		2.0	22.6	20.7	290	<0.1	11.5	15.5	1623	5.56	13.0	0.3	<0.5	0.6	15	0.7	0.7	0.3	79	0.16	0.129
L2W 1400S	Soil		1.4	16.2	19.2	169	0.1	11.2	8.3	420	4.36	24.3	0.2	<0.5	0.1	19	0.4	0.6	0.1	87	0.36	0.078
L2W 1450S	Soil		0.6	9.2	13.9	91	0.2	9.3	4.6	213	2.19	7.9	0.2	<0.5	<0.1	12	<0.1	0.2	0.1	55	0.10	0.039
L2W 0050N	Soil		1.6	31.2	36.0	661	0.2	10.0	8.2	693	5.34	32.8	0.2	3.6	0.6	9	1.0	0.5	0.7	72	0.09	0.048
L2W 0100N	Soil		1.5	12.7	28.8	201	0.3	6.3	5.3	269	4.44	14.0	0.1	<0.5	0.4	9	0.6	0.5	0.4	76	0.09	0.040
L2W 0150N	Soil		1.2	31.5	37.1	279	0.5	3.3	3.2	577	2.39	5.0	0.2	<0.5	0.2	9	0.8	0.2	0.4	41	0.11	0.087
L2W 0200N	Soil		1.3	20.0	34.6	588	0.4	10.5	7.9	508	3.95	20.6	0.2	<0.5	0.4	11	0.9	0.5	0.4	58	0.12	0.053
L2W 0250N	Soil		1.0	79.6	76.4	1246	0.8	12.7	14.2	3697	4.02	19.4	0.4	0.8	0.2	53	7.3	0.8	0.7	44	0.94	0.130
L2W 0300N	Soil		1.4	24.4	58.8	458	0.6	9.4	9.0	965	4.47	27.0	0.2	<0.5	0.3	9	1.2	0.8	0.2	48	0.12	0.067
L2W 0350N	Soil		1.6	50.5	41.7	377	1.3	6.4	8.6	697	5.10	22.6	0.2	<0.5	0.5	6	0.9	0.4	0.4	156	0.05	0.064
L2W 0400N	Soil		2.6	18.6	46.9	278	0.3	5.5	9.4	691	5.22	18.5	0.2	0.6	0.3	13	1.4	0.4	0.3	82	0.24	0.059
L2W 0450N	Soil		2.1	61.8	42.6	676	1.2	19.1	9.4	2678	3.74	18.2	1.8	1.4	0.6	45	2.9	0.6	0.3	58	0.63	0.124
L2W 0500N	Soil		0.3	5.7	10.9	70	0.1	4.2	4.4	568	2.22	2.9	0.2	<0.5	<0.1	7	0.3	0.2	0.2	48	0.08	0.038
L2W 0550N	Soil		0.7	18.1	17.8	210	0.2	10.7	9.0	700	3.61	13.9	0.2	1.1	0.3	13	0.5	0.4	0.3	60	0.18	0.082
L4W 0000	Soil		1.5	54.8	41.3	1124	0.3	12.8	10.1	1069	3.80	25.6	0.3	<0.5	0.1	31	4.7	0.6	0.5	70	0.50	0.067
L4W 0050N	Soil		1.0	87.0	18.6	941	1.2	16.2	8.0	536	2.86	10.8	0.3	1.3	0.2	40	2.8	0.4	1.1	46	0.73	0.074
L4W 0100N	Soil		1.4	25.9	28.7	900	0.5	8.1	6.2	443	3.19	13.7	0.3	<0.5	0.3	26	2.4	0.3	0.4	83	0.46	0.042
L4W 0150N	Soil		2.5	51.2	40.0	1684	0.6	29.2	19.6	853	6.12	14.0	0.7	<0.5	1.4	38	4.3	0.3	0.3	203	0.73	0.112
L4W 0200N	Soil		1.8	48.2	65.5	1061	0.5	19.8	19.1	2672	4.48	29.4	0.3	<0.5	0.3	40	7.6	0.7	0.7	93	0.56	0.131
L4W 0250N	Soil		1.7	16.8	33.7	447	0.5	11.9	9.1	500	5.48	27.5	0.2	<0.5	0.7	9	1.4	0.4	0.5	78	0.08	0.101
L4W 0300N	Soil		1.4	296.6	60.6	4316	3.4	22.1	14.6	3312	4.82	34.2	0.8	<0.5	0.7	51	16.1	1.0	0.8	59	0.87	0.089
L4W 0350N	Soil		2.0	637.9	40.0	4297	5.1	15.8	7.7	1651	1.93	16.1	0.7	7.5	0.2	121	36.1	2.0	0.6	24	2.81	0.232
L4W 0400N	Soil		1.1	23.3	25.3	496	0.2	12.9	9.6	509	5.03	19.3	0.2	<0.5	0.7	7	1.0	0.5	0.4	74	0.06	0.085
L4W 0450N	Soil		2.2	25.5	148.6	600	0.7	6.8	8.5	1222	6.59	20.3	0.2	<0.5	0.2	10	2.5	0.4	1.8	88	0.12	0.087
L4W 0500N	Soil		1.1	25.3	34.4	553	0.4	10.6	10.9	677	4.77	20.8	0.2	<0.5	0.7	10	0.9	0.4	0.3	73	0.12	0.038
L4W 0550N	Soil		1.5	75.5	137.9	1356	3.5	13.8	16.6	3645	5.12	39.4	0.3	1.9	1.0	34	4.4	0.7	0.3	56	0.62	0.052
L4W 0600N	Soil		1.2	11.8	13.1	443	0.6	6.3	5.7	255	3.11	10.0	0.2	<0.5	0.6	14	0.8	0.3	0.2	79	0.19	0.023
L4W 0650N	Soil		0.8	20.2	22.1	420	0.5	11.9	7.5	430	3.95	16.7	0.3	<0.5	0.8	9	0.5	0.3	0.3	67	0.09	0.045
L4W 0700N	Soil		0.9	15.2	19.5	307	0.2	7.6	6.0	491	2.89	12.8	0.3	<0.5	0.3	17	0.6	0.2	0.3	52	0.23	0.032
L4W 0750N	Soil		0.9	18.7	22.9	259	0.3	12.0	8.1	416	4.37	21.3	0.3	<0.5	0.9	6	0.5	0.6	0.3	66	0.04	0.051

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		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	0.01	0.01	0.01	0.05	1	0.5	
L2W 1350S	Soil	5	18	0.38	108	0.049	<20	1.75	0.005	0.05	0.2	0.05	2.6	<0.1	<0.05	8	<0.5
L2W 1400S	Soil	4	20	0.49	105	0.029	<20	1.69	0.007	0.04	<0.1	0.03	2.3	<0.1	<0.05	7	<0.5
L2W 1450S	Soil	4	15	0.43	70	0.019	<20	1.47	0.007	0.03	0.1	0.02	1.0	<0.1	<0.05	6	<0.5
L2W 0050N	Soil	5	17	0.44	161	0.010	<20	2.06	0.006	0.04	0.1	0.06	3.2	0.1	<0.05	7	<0.5
L2W 0100N	Soil	4	12	0.24	90	0.015	<20	1.46	0.004	0.03	0.2	0.03	1.8	<0.1	<0.05	8	<0.5
L2W 0150N	Soil	10	7	0.15	88	0.004	<20	1.32	0.006	0.04	0.1	0.07	1.9	<0.1	<0.05	7	<0.5
L2W 0200N	Soil	6	16	0.49	101	0.008	<20	2.13	0.004	0.04	0.2	0.05	2.6	<0.1	<0.05	7	<0.5
L2W 0250N	Soil	14	19	0.46	241	0.011	<20	2.05	0.007	0.05	0.1	0.09	4.0	<0.1	0.08	6	1.0
L2W 0300N	Soil	5	14	0.46	133	0.006	<20	1.72	0.005	0.04	0.1	0.04	2.2	<0.1	<0.05	5	0.7
L2W 0350N	Soil	5	12	0.29	84	0.009	<20	1.60	0.004	0.04	0.2	0.06	2.2	<0.1	<0.05	6	0.8
L2W 0400N	Soil	6	10	0.25	115	0.011	<20	1.49	0.005	0.04	0.2	0.02	2.2	<0.1	<0.05	8	<0.5
L2W 0450N	Soil	25	21	0.50	554	0.009	<20	3.70	0.011	0.06	0.2	0.09	4.3	0.1	0.06	7	1.8
L2W 0500N	Soil	5	8	0.32	81	0.021	<20	1.18	0.003	0.03	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5
L2W 0550N	Soil	5	16	0.63	140	0.012	<20	1.74	0.004	0.05	0.1	0.02	2.5	<0.1	<0.05	5	<0.5
L4W 0000	Soil	7	19	0.51	127	0.015	<20	1.76	0.006	0.05	0.1	0.03	2.4	<0.1	<0.05	6	<0.5
L4W 0050N	Soil	9	22	0.70	96	0.018	<20	1.79	0.017	0.06	0.1	0.05	4.2	<0.1	<0.05	5	0.9
L4W 0100N	Soil	9	17	0.34	93	0.021	<20	1.41	0.007	0.03	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5
L4W 0150N	Soil	15	36	0.82	113	0.146	<20	1.83	0.017	0.08	0.3	0.03	3.1	<0.1	<0.05	11	<0.5
L4W 0200N	Soil	15	24	0.66	160	0.034	<20	1.90	0.007	0.08	0.1	0.03	3.2	<0.1	0.05	6	0.8
L4W 0250N	Soil	6	24	0.52	92	0.017	<20	2.63	0.006	0.05	0.1	0.04	3.4	<0.1	<0.05	7	<0.5
L4W 0300N	Soil	35	30	0.65	226	0.008	<20	3.61	0.007	0.10	0.1	0.15	11.8	0.1	<0.05	7	1.0
L4W 0350N	Soil	47	23	0.32	129	0.007	<20	1.80	0.033	0.05	0.2	0.38	4.1	<0.1	0.21	3	4.2
L4W 0400N	Soil	6	22	0.56	110	0.012	<20	2.94	0.004	0.03	<0.1	0.05	3.9	<0.1	<0.05	7	<0.5
L4W 0450N	Soil	8	14	0.28	102	0.020	<20	1.95	0.005	0.04	0.4	0.04	2.1	<0.1	<0.05	13	<0.5
L4W 0500N	Soil	6	17	0.59	106	0.014	<20	2.27	0.005	0.04	<0.1	0.03	3.4	<0.1	<0.05	7	<0.5
L4W 0550N	Soil	14	18	0.58	129	0.010	<20	2.57	0.004	0.05	0.3	0.11	5.9	0.1	<0.05	7	0.7
L4W 0600N	Soil	6	13	0.33	81	0.012	<20	1.44	0.002	0.03	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5
L4W 0650N	Soil	7	18	0.50	149	0.016	<20	2.64	0.006	0.04	<0.1	0.06	3.6	<0.1	<0.05	7	<0.5
L4W 0700N	Soil	8	14	0.41	133	0.009	<20	1.67	0.006	0.04	0.2	0.02	2.4	<0.1	<0.05	6	<0.5
L4W 0750N	Soil	4	19	0.58	97	0.017	<20	2.66	0.004	0.03	<0.1	0.05	3.5	<0.1	<0.05	5	<0.5

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method Analyte Unit MDL	1DX Mo ppm	1DX Cu ppm	1DX Pb ppm	1DX Zn ppm	1DX Ag ppm	1DX Ni ppm	1DX Co ppm	1DX Mn ppm	1DX Fe %	1DX As ppm	1DX U ppm	1DX Au ppb	1DX Th ppm	1DX Sr ppm	1DX Cd ppm	1DX Sb ppm	1DX Bi ppm	1DX V ppm	1DX Ca %	1DX P %	
	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	
L4W 0050S	Soil	2.2	23.4	42.7	585	0.8	12.8	9.2	485	5.39	30.2	0.4	0.6	0.7	11	1.4	0.6	0.5	80	0.08	0.073
L4W 0100S	Soil	2.1	33.3	87.5	818	0.2	13.2	8.7	536	4.21	29.8	0.3	<0.5	0.9	10	0.8	0.5	0.6	73	0.06	0.063
L4W 0150S	Soil	2.6	25.9	48.8	268	0.4	14.9	7.9	367	4.16	18.5	0.4	<0.5	0.4	13	0.6	0.6	0.4	122	0.17	0.130
L4W 0200S	Soil	2.1	43.2	36.2	478	0.6	24.1	10.9	405	5.22	18.6	0.6	<0.5	1.5	15	0.7	0.5	0.4	158	0.29	0.214
L4W 0250S	Soil	2.2	38.3	70.4	733	0.6	21.3	12.0	456	5.44	29.8	0.4	17.6	1.1	14	1.0	0.6	0.6	118	0.16	0.094
L4W 0300S	Soil	2.5	68.8	46.8	1298	0.4	17.9	13.1	1191	3.87	21.2	0.4	3.3	0.3	20	4.1	0.6	0.2	86	0.26	0.039
L4W 0350S	Soil	2.7	27.1	57.0	398	0.3	12.7	9.5	501	5.56	29.0	0.3	<0.5	0.4	10	1.0	0.5	0.3	111	0.08	0.069
L4W 0400S	Soil	2.1	28.3	88.1	348	0.9	7.1	5.2	242	4.91	29.3	0.2	9.9	0.1	15	1.7	0.5	0.5	116	0.16	0.061
L4W 0450S	Soil	4.2	29.7	43.0	270	0.5	21.3	11.9	349	4.69	22.7	0.5	<0.5	1.3	14	0.4	0.5	0.2	130	0.13	0.116
L4W 0500S	Soil	3.5	19.2	30.6	354	0.6	12.2	9.0	400	4.89	25.4	0.3	<0.5	0.3	20	1.0	0.7	0.2	111	0.24	0.052
L4W 0550S	Soil	1.4	16.3	28.2	147	0.1	11.5	7.1	367	4.29	16.9	0.2	<0.5	0.5	12	0.3	0.4	0.2	111	0.12	0.096
L4W 0600S	Soil	1.3	28.1	20.5	225	0.2	17.7	11.3	459	4.17	17.7	0.2	<0.5	0.3	19	0.7	0.6	<0.1	88	0.23	0.035
L4W 0650S	Soil	1.9	55.0	48.3	537	0.5	17.2	18.7	2567	5.06	26.3	0.4	<0.5	0.5	32	1.8	0.4	0.2	102	0.59	0.085
L4W 0700S	Soil	1.3	23.2	30.0	245	0.2	17.3	12.2	452	4.74	23.6	0.3	<0.5	0.7	12	0.5	0.5	0.1	104	0.10	0.037
L4W 0750S	Soil	2.4	36.0	27.6	290	0.4	18.1	13.2	727	4.16	22.4	0.4	<0.5	0.5	27	0.7	0.4	0.1	83	0.43	0.056
L4W 0800S	Soil	1.5	28.5	44.4	265	0.1	17.1	9.4	371	4.30	32.0	0.3	<0.5	0.8	10	0.4	0.6	0.1	81	0.09	0.059
L4W 0850S	Soil	1.5	20.0	25.2	252	0.2	16.0	11.3	355	4.92	24.7	0.2	<0.5	0.5	14	0.6	0.5	0.1	105	0.12	0.050
L4W 0900S	Soil	2.0	11.9	17.3	89	<0.1	6.2	5.0	210	3.39	15.1	0.2	<0.5	<0.1	14	0.4	0.7	0.2	113	0.15	0.057
L4W 0950S	Soil	1.9	17.4	25.9	216	0.4	11.5	7.9	377	4.58	25.7	0.3	1.1	0.2	17	0.6	0.8	0.2	103	0.24	0.050
L4W 1000S	Soil	1.5	9.3	20.1	140	0.3	6.0	5.2	413	2.99	10.9	0.2	<0.5	0.2	16	1.0	0.6	0.2	79	0.18	0.043
L4W 1050S	Soil	1.5	20.6	27.5	206	<0.1	17.3	10.1	501	4.47	26.5	0.2	<0.5	0.8	10	0.3	0.8	0.2	91	0.10	0.102
L4W 1100S	Soil	1.1	13.1	15.1	195	0.1	12.9	8.0	564	3.73	12.8	0.2	0.9	0.5	13	0.3	0.5	0.2	68	0.16	0.123
L4W 1150S	Soil	1.5	26.7	32.3	247	0.3	18.7	14.2	1002	3.96	32.2	0.3	1.6	0.5	20	0.6	0.8	0.2	82	0.29	0.038
L4W 1200S	Soil	1.0	27.6	17.1	178	0.3	17.0	8.2	461	3.30	14.9	0.3	<0.5	0.2	15	0.4	0.5	0.1	65	0.17	0.057
L4W 1250S	Soil	1.8	20.1	23.8	275	0.4	16.8	11.9	951	4.37	23.1	0.3	0.9	0.3	18	0.7	0.8	0.2	79	0.24	0.072
L4W 1300S	Soil	4.3	109.3	38.7	488	2.0	26.5	19.2	2664	4.79	118.6	1.3	<0.5	1.4	33	1.8	0.7	0.3	87	0.74	0.134
L6W 0000	Soil	1.9	103.2	53.8	709	0.4	14.5	12.9	1555	3.71	44.1	0.3	1.6	0.4	17	2.8	1.2	0.8	61	0.28	0.057
L6W 0050S	Soil	2.0	21.3	30.4	384	0.3	10.1	6.5	442	3.66	19.3	0.2	<0.5	0.2	19	1.5	0.5	0.5	66	0.23	0.052
L6W 0100S	Soil	2.0	34.5	45.2	595	0.6	11.7	9.4	665	4.51	28.9	0.2	<0.5	0.4	24	1.4	0.7	0.9	73	0.23	0.067
L6W 0150S	Soil	2.9	27.1	59.3	356	0.5	8.7	5.8	354	3.53	18.1	0.3	<0.5	0.5	19	1.5	0.6	0.6	70	0.17	0.046

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se
				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	0.05		1	0.5
L4W 0050S	Soil			6	21	0.54	100	0.025	<20	2.64	0.005	0.04	0.2	0.04	3.3	<0.1	<0.05	8	<0.5
L4W 0100S	Soil			5	22	0.56	90	0.019	<20	2.99	0.004	0.04	0.1	0.07	3.7	<0.1	<0.05	7	<0.5
L4W 0150S	Soil			12	23	0.51	88	0.032	<20	1.68	0.006	0.04	0.1	0.02	2.3	<0.1	<0.05	8	<0.5
L4W 0200S	Soil			19	31	0.69	76	0.056	<20	1.98	0.007	0.05	0.2	0.05	3.0	<0.1	<0.05	9	<0.5
L4W 0250S	Soil			11	25	0.75	102	0.041	<20	2.98	0.006	0.05	0.2	0.03	4.1	<0.1	<0.05	8	<0.5
L4W 0300S	Soil			9	32	0.83	130	0.027	<20	2.17	0.006	0.05	<0.1	0.02	4.9	<0.1	<0.05	6	<0.5
L4W 0350S	Soil			7	26	0.66	103	0.022	<20	2.69	0.005	0.05	<0.1	0.03	4.0	<0.1	<0.05	10	<0.5
L4W 0400S	Soil			5	19	0.28	77	0.021	<20	1.70	0.005	0.03	0.1	0.05	2.2	<0.1	<0.05	9	<0.5
L4W 0450S	Soil			9	29	0.63	110	0.050	<20	2.49	0.006	0.05	0.1	0.04	3.7	<0.1	<0.05	7	<0.5
L4W 0500S	Soil			5	27	0.56	140	0.027	<20	2.17	0.005	0.04	0.2	0.02	3.5	<0.1	<0.05	9	<0.5
L4W 0550S	Soil			4	23	0.41	118	0.020	<20	1.91	0.005	0.05	<0.1	0.03	3.5	0.1	<0.05	9	<0.5
L4W 0600S	Soil			4	28	0.66	157	0.020	<20	2.05	0.006	0.03	<0.1	0.03	3.5	<0.1	<0.05	6	<0.5
L4W 0650S	Soil			17	31	0.56	191	0.017	<20	2.93	0.008	0.08	<0.1	0.05	7.9	0.1	<0.05	9	<0.5
L4W 0700S	Soil			5	33	0.71	105	0.034	<20	2.65	0.005	0.06	<0.1	0.03	4.7	<0.1	<0.05	7	<0.5
L4W 0750S	Soil			11	30	0.73	149	0.010	<20	2.65	0.007	0.06	<0.1	0.04	6.5	<0.1	<0.05	7	<0.5
L4W 0800S	Soil			5	26	0.59	84	0.019	<20	2.93	0.004	0.04	0.1	0.05	4.3	<0.1	<0.05	7	<0.5
L4W 0850S	Soil			6	32	0.76	112	0.037	<20	2.32	0.009	0.03	<0.1	0.04	3.8	<0.1	<0.05	8	<0.5
L4W 0900S	Soil			4	15	0.22	73	0.036	<20	1.03	0.004	0.04	<0.1	0.04	1.7	<0.1	<0.05	6	<0.5
L4W 0950S	Soil			5	23	0.51	73	0.028	<20	1.87	0.005	0.04	0.1	0.02	2.7	<0.1	<0.05	9	<0.5
L4W 1000S	Soil			5	13	0.24	97	0.031	<20	1.03	0.005	0.03	<0.1	0.02	1.7	<0.1	<0.05	7	<0.5
L4W 1050S	Soil			4	27	0.72	94	0.033	<20	2.45	0.006	0.05	<0.1	0.03	3.6	<0.1	<0.05	8	<0.5
L4W 1100S	Soil			4	20	0.48	103	0.024	<20	2.00	0.006	0.04	<0.1	0.03	2.8	<0.1	<0.05	7	<0.5
L4W 1150S	Soil			6	29	0.76	138	0.020	<20	2.36	0.007	0.05	<0.1	0.03	4.4	<0.1	<0.05	7	<0.5
L4W 1200S	Soil			6	23	0.61	123	0.015	<20	2.03	0.006	0.04	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5
L4W 1250S	Soil			4	24	0.53	139	0.032	<20	1.71	0.006	0.05	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5
L4W 1300S	Soil			29	27	0.85	185	0.087	<20	3.57	0.009	0.06	0.2	0.07	8.9	0.2	<0.05	8	0.7
L6W 0000	Soil			10	19	0.69	136	0.015	<20	1.79	0.006	0.05	0.1	0.03	4.1	<0.1	<0.05	5	<0.5
L6W 0050S	Soil			5	16	0.40	87	0.012	<20	1.54	0.005	0.05	0.2	0.01	2.0	<0.1	<0.05	6	<0.5
L6W 0100S	Soil			5	19	0.57	134	0.014	<20	1.86	0.006	0.04	<0.1	0.02	3.0	<0.1	<0.05	7	<0.5
L6W 0150S	Soil			6	16	0.36	122	0.013	<20	1.53	0.005	0.04	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX 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
L6W 0200S	Soil			4.5	23.6	75.7	528	0.6	14.4	9.2	586	4.31	21.3	0.4	<0.5	1.0	10	1.4	0.6	0.3	86	0.09	0.137
L6W 0250S	Soil			2.9	19.1	43.8	562	0.5	11.6	9.7	603	4.43	21.7	0.2	<0.5	0.5	13	1.6	0.7	0.4	88	0.12	0.055
L6W 0300S	Soil			3.1	135.4	1159	1267	0.9	22.2	14.4	1737	4.22	35.3	0.6	<0.5	0.7	35	5.6	0.9	0.3	76	0.57	0.068
L6W 0350S	Soil			2.1	19.7	40.0	350	0.5	12.9	7.9	412	4.74	31.1	0.2	0.7	0.4	11	1.0	0.9	0.2	100	0.13	0.100
L6W 0400S	Soil			3.8	53.3	71.5	417	0.3	24.7	14.5	1218	4.25	35.4	0.4	<0.5	0.6	33	1.1	0.8	0.2	93	0.26	0.087
L6W 0450S	Soil			7.0	92.4	75.5	335	0.4	33.1	28.1	898	4.56	21.0	0.9	<0.5	1.7	41	0.5	0.7	0.2	122	0.47	0.193
L6W 0500S	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.
L6W 0550S	Soil			4.4	11.6	29.6	218	0.1	10.1	7.4	301	3.43	18.3	0.2	0.6	0.3	18	0.8	0.6	0.1	92	0.18	0.031
L6W 0600S	Soil			2.4	14.3	26.0	232	0.2	9.4	6.5	263	4.06	16.9	0.2	<0.5	0.4	20	1.1	0.5	0.1	105	0.25	0.034
L6W 0650S	Soil			1.7	18.9	24.1	229	0.1	13.7	9.5	420	4.30	18.2	0.2	<0.5	0.3	18	0.7	0.5	0.1	99	0.24	0.034
L6W 0700S	Soil			1.4	17.9	29.8	324	0.2	14.6	9.7	451	5.28	28.7	0.3	<0.5	0.8	19	1.0	0.7	0.2	114	0.24	0.046
L6W 0750S	Soil			1.2	21.2	36.1	309	0.1	17.9	10.9	522	4.33	27.8	0.2	<0.5	0.5	16	0.8	0.8	0.2	83	0.14	0.039
L6W 0800S	Soil			1.2	18.6	40.7	326	0.3	17.4	10.3	448	4.10	32.2	0.2	<0.5	0.6	14	0.5	0.7	0.1	82	0.14	0.036
L6W 0850S	Soil			1.7	14.0	30.2	278	0.2	12.9	9.7	580	3.85	21.1	0.2	<0.5	0.5	12	0.6	0.7	0.2	78	0.18	0.027
L6W 0900S	Soil			2.7	20.7	28.9	259	0.1	18.0	12.2	638	4.28	25.6	0.3	<0.5	0.5	25	0.4	0.7	0.1	98	0.31	0.036
L6W 0950S	Soil			1.2	17.7	27.0	196	0.2	13.3	9.1	367	4.16	24.8	0.2	<0.5	0.5	13	0.5	0.8	0.1	93	0.12	0.029
L6W 1000S	Soil			1.4	21.5	38.5	273	0.2	17.4	13.7	525	4.41	22.4	0.3	<0.5	0.8	12	0.5	0.8	0.2	83	0.13	0.069
L6W 1050S	Soil			1.5	37.6	32.1	315	0.5	21.0	13.6	600	4.92	46.1	0.2	<0.5	0.7	10	0.8	0.8	0.3	108	0.10	0.042
L6W 1100S	Soil			1.4	32.9	37.5	275	0.7	19.5	16.7	1014	4.32	38.3	0.4	<0.5	0.5	16	0.6	0.7	0.5	90	0.15	0.044
L6W 1150S	Soil			1.7	43.6	32.8	305	0.4	22.9	12.5	685	5.14	31.0	0.5	<0.5	0.6	16	0.4	0.5	0.2	101	0.11	0.108
L6W 1200S	Soil			1.4	35.7	23.0	222	0.2	20.7	11.1	445	3.89	21.3	0.4	<0.5	1.0	11	0.4	0.7	0.2	72	0.10	0.058
L6W 1250S	Soil			1.8	17.8	29.2	261	0.4	14.6	11.7	1024	4.21	22.2	0.2	<0.5	0.6	22	0.5	0.6	0.2	84	0.17	0.065
L6W 1300S	Soil			1.6	19.6	18.0	223	0.4	16.8	8.8	404	4.42	17.2	0.3	<0.5	0.7	11	0.6	0.6	0.2	80	0.11	0.055
L6W 1350S	Soil			1.9	17.9	21.9	248	0.8	12.3	8.9	436	4.83	23.3	0.3	<0.5	0.4	9	0.8	0.7	0.3	88	0.08	0.073
L6W 1400S	Soil			1.0	10.0	11.5	92	0.3	4.1	5.2	731	2.63	4.0	0.2	<0.5	<0.1	7	0.3	0.8	0.2	47	0.05	0.068
L6W 1450S	Soil			2.1	19.3	27.1	320	0.1	9.5	9.0	963	4.25	17.5	0.1	0.7	0.2	16	1.6	0.6	0.3	82	0.23	0.056
L6W 1500S	Soil			2.1	42.6	44.4	403	1.0	15.2	15.5	2643	4.69	25.7	0.3	<0.5	0.3	17	1.8	0.8	3.2	73	0.20	0.074
L6W 1550S	Soil			1.4	27.0	39.9	222	0.1	17.9	13.5	1180	3.71	25.9	0.2	<0.5	0.2	24	1.1	1.2	0.3	58	0.38	0.063
L6W 0050N	Soil			4.0	83.8	66.4	1326	1.0	16.9	12.7	2198	3.97	27.2	0.4	1.1	0.3	46	5.8	0.9	0.9	66	0.72	0.097
L6W 0100N	Soil			4.6	15.0	27.7	403	0.3	9.1	7.4	439	4.19	23.6	0.2	1.5	0.4	16	1.5	0.5	0.5	92	0.19	0.043

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.01	0.1	0.01	0.1	0.05	0.05	1	0.5
L6W 0200S	Soil	6	23	0.48	99	0.041	<20	2.14	0.004	0.04	0.1	0.06	2.8	<0.1	<0.05	7	<0.5		
L6W 0250S	Soil	5	21	0.55	90	0.033	<20	1.83	0.005	0.04	<0.1	0.03	2.7	<0.1	<0.05	7	<0.5		
L6W 0300S	Soil	24	28	0.75	169	0.012	<20	2.83	0.009	0.08	0.1	0.05	7.2	0.1	<0.05	7	<0.5		
L6W 0350S	Soil	5	24	0.54	87	0.026	<20	1.79	0.006	0.05	0.1	0.03	3.0	<0.1	<0.05	8	<0.5		
L6W 0400S	Soil	21	26	0.71	127	0.029	<20	2.12	0.006	0.06	0.1	0.03	3.3	<0.1	<0.05	7	<0.5		
L6W 0450S	Soil	40	30	0.89	180	0.023	<20	2.49	0.010	0.08	0.2	0.02	5.3	0.1	<0.05	8	<0.5		
L6W 0500S	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.
L6W 0550S	Soil	4	21	0.45	93	0.029	<20	1.32	0.005	0.04	0.1	0.01	2.3	<0.1	<0.05	6	<0.5		
L6W 0600S	Soil	4	20	0.37	98	0.032	<20	1.50	0.006	0.04	0.1	0.01	2.6	<0.1	<0.05	7	<0.5		
L6W 0650S	Soil	5	24	0.54	129	0.020	<20	1.78	0.006	0.04	<0.1	0.02	3.3	<0.1	<0.05	7	<0.5		
L6W 0700S	Soil	5	29	0.59	107	0.040	<20	2.29	0.006	0.05	0.1	0.03	4.2	<0.1	<0.05	9	<0.5		
L6W 0750S	Soil	5	25	0.61	112	0.027	<20	1.96	0.008	0.05	<0.1	0.02	3.6	<0.1	<0.05	7	<0.5		
L6W 0800S	Soil	4	26	0.65	100	0.025	<20	2.21	0.007	0.04	<0.1	0.01	3.7	<0.1	<0.05	6	<0.5		
L6W 0850S	Soil	5	21	0.51	102	0.016	<20	1.68	0.005	0.04	0.2	0.01	3.2	<0.1	<0.05	6	<0.5		
L6W 0900S	Soil	7	28	0.78	121	0.024	<20	2.28	0.007	0.04	<0.1	0.02	4.6	<0.1	<0.05	7	<0.5		
L6W 0950S	Soil	4	23	0.62	81	0.029	<20	1.86	0.005	0.03	<0.1	0.02	3.1	<0.1	<0.05	7	<0.5		
L6W 1000S	Soil	5	23	0.54	129	0.029	<20	3.05	0.005	0.05	0.1	0.04	3.9	<0.1	<0.05	8	<0.5		
L6W 1050S	Soil	4	30	0.74	111	0.033	<20	2.84	0.006	0.05	<0.1	0.04	4.1	<0.1	<0.05	9	<0.5		
L6W 1100S	Soil	8	30	0.69	117	0.018	<20	2.45	0.007	0.05	<0.1	0.03	4.8	0.1	<0.05	7	<0.5		
L6W 1150S	Soil	7	33	0.88	204	0.011	<20	3.69	0.007	0.09	<0.1	0.06	5.9	0.1	<0.05	11	<0.5		
L6W 1200S	Soil	7	29	0.67	118	0.021	<20	2.67	0.006	0.05	<0.1	0.04	4.8	<0.1	<0.05	6	<0.5		
L6W 1250S	Soil	5	23	0.57	161	0.021	<20	1.98	0.007	0.07	<0.1	0.03	3.2	<0.1	<0.05	7	<0.5		
L6W 1300S	Soil	4	24	0.55	100	0.018	<20	2.01	0.006	0.04	<0.1	0.03	3.8	<0.1	<0.05	7	<0.5		
L6W 1350S	Soil	5	21	0.44	94	0.018	<20	1.85	0.004	0.05	0.1	0.05	2.8	<0.1	<0.05	7	<0.5		
L6W 1400S	Soil	9	10	0.25	69	0.011	<20	1.19	0.006	0.03	0.1	0.03	1.2	<0.1	<0.05	6	<0.5		
L6W 1450S	Soil	6	17	0.35	148	0.019	<20	1.55	0.004	0.05	0.1	0.04	2.1	<0.1	<0.05	7	<0.5		
L6W 1500S	Soil	8	24	0.55	196	0.029	<20	2.15	0.004	0.07	0.1	0.04	3.3	<0.1	<0.05	7	<0.5		
L6W 1550S	Soil	5	21	0.65	105	0.024	<20	1.70	0.006	0.05	<0.1	0.02	2.5	<0.1	<0.05	4	0.7		
L6W 0050N	Soil	13	23	0.56	225	0.011	<20	2.42	0.008	0.11	0.1	0.07	5.1	0.1	0.07	6	<0.5		
L6W 0100N	Soil	6	17	0.41	113	0.029	<20	1.57	0.005	0.05	0.2	0.01	2.4	<0.1	<0.05	7	<0.5		

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX 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
L6W 0150N	Soil		2.4	40.9	31.9	765	0.3	17.0	9.8	659	4.40	28.3	0.3	26.4	0.3	20	2.0	0.9	0.7	78	0.20	0.042
L6W 0200N	Soil		1.7	35.8	15.5	172	0.2	25.7	9.8	517	3.84	1.9	1.0	<0.5	0.5	29	2.5	<0.1	0.1	152	0.69	0.418
L6W 0250N	Soil		1.8	24.4	36.6	730	0.5	11.7	9.0	699	4.61	27.9	0.2	1.5	0.5	11	1.3	0.7	0.6	70	0.13	0.063
L6W 0300N	Soil		1.5	37.4	42.4	741	0.6	11.5	8.3	731	3.80	19.9	0.3	<0.5	0.3	19	2.0	0.5	0.5	72	0.23	0.054
L6W 0350N	Soil		0.9	21.2	16.5	423	0.3	14.5	8.5	485	3.04	11.9	0.3	5.6	0.3	19	0.8	0.5	0.3	56	0.27	0.032
L6W 0400N	Soil		1.3	16.1	17.3	369	0.2	10.0	7.5	369	3.43	6.6	0.3	0.8	1.1	21	1.2	0.4	0.2	72	0.15	0.105
L6W 0450N	Soil		3.3	13.3	24.5	419	0.5	8.8	7.9	454	4.23	15.0	0.2	0.8	0.8	11	1.3	0.5	0.3	82	0.10	0.025
L6W 0500N	Soil		1.0	22.6	37.4	401	0.4	11.3	9.1	813	4.14	19.2	0.2	0.9	0.6	11	0.9	0.6	0.4	63	0.13	0.051
L6W 0550N	Soil		0.6	59.9	53.4	984	0.7	17.1	11.2	1547	3.64	17.4	0.3	0.7	0.6	31	3.0	0.8	0.3	57	0.52	0.043
L6W 0600N	Soil		1.0	18.1	24.2	294	0.2	8.8	7.7	429	3.50	15.2	0.2	0.9	0.6	13	0.5	0.5	0.3	57	0.16	0.027
L6W 0650N	Soil		1.0	34.4	57.4	380	0.2	13.6	11.2	1156	3.81	28.3	0.2	2.1	0.7	10	1.1	1.3	0.5	55	0.15	0.038
L8W 0000	Soil		1.4	15.2	40.8	444	0.3	8.3	7.2	416	4.22	14.9	0.2	<0.5	0.4	13	1.8	0.5	0.3	96	0.16	0.047
L8W 0050N	Soil		2.6	83.7	137.1	864	1.4	9.8	9.6	684	3.84	29.1	0.5	2.6	0.5	28	4.6	0.5	0.6	82	0.47	0.044
L8W 0100N	Soil		3.6	46.3	65.8	638	0.7	9.2	11.1	668	3.91	18.0	0.3	3.3	0.7	27	1.6	0.4	0.9	84	0.31	0.038
L8W 0150N	Soil		1.5	21.5	36.3	542	1.4	10.1	10.0	548	4.40	25.9	0.2	<0.5	0.6	11	1.9	0.7	0.5	75	0.11	0.072
L8W 0200N	Soil		2.1	27.6	26.5	422	0.4	10.7	8.1	402	4.54	31.8	0.2	0.5	0.5	11	1.2	0.6	0.7	92	0.10	0.050
L8W 0250N	Soil		1.3	82.1	75.2	869	0.4	17.1	12.6	1751	3.77	27.4	0.3	3.6	0.7	37	4.5	1.4	0.8	52	0.64	0.087
L8W 0300N	Soil		1.4	42.8	50.9	860	0.3	14.5	12.5	1008	4.06	35.1	0.3	1.1	0.3	20	1.8	0.9	1.1	63	0.34	0.050
L8W 0350N	Soil		1.2	36.1	53.5	996	0.7	15.1	17.6	3481	4.29	22.9	0.3	1.1	0.2	33	7.6	0.9	0.5	66	0.43	0.113
L8W 0400N	Soil		1.2	15.6	34.0	575	0.3	8.5	8.5	824	3.77	16.5	0.2	<0.5	0.2	20	2.3	0.5	0.4	66	0.22	0.039
L8W 0450N	Soil		1.1	68.9	47.5	861	0.3	15.8	13.3	1797	3.90	23.9	0.3	<0.5	0.2	24	4.4	0.9	0.5	54	0.36	0.085
L8W 0500N	Soil		2.1	22.5	28.0	334	0.1	13.8	10.1	626	4.67	24.4	0.3	<0.5	0.7	10	0.7	0.7	0.4	86	0.09	0.090
L8W 0550N	Soil		1.8	26.4	31.4	661	0.5	21.5	15.1	1435	4.24	14.2	0.3	<0.5	0.8	18	2.0	0.6	0.3	86	0.26	0.076
L8W 0600N	Soil		1.3	14.5	29.9	490	0.3	11.7	10.1	521	4.20	18.2	0.2	2.2	0.9	10	0.6	0.5	0.3	66	0.08	0.026
L8W 0650N	Soil		1.7	29.8	36.3	439	0.4	14.3	9.3	554	4.08	21.0	0.3	<0.5	0.6	14	0.9	0.7	0.3	68	0.18	0.041
L8W 0700N	Soil		1.0	28.2	48.0	471	0.4	10.8	10.3	913	3.71	16.2	0.2	1.1	0.7	18	1.3	0.4	0.4	67	0.28	0.030
L8W 0750N	Soil		0.8	30.7	15.8	201	0.1	21.9	13.8	963	3.70	15.9	0.2	<0.5	0.4	19	0.7	0.9	0.1	77	0.29	0.091
L8W 0050S	Soil		1.3	18.2	22.0	321	0.5	10.3	8.0	394	4.28	16.3	0.2	<0.5	0.5	17	1.2	0.5	0.2	103	0.18	0.034
L8W 0100S	Soil		1.3	46.0	41.5	575	0.3	14.1	9.9	499	3.95	21.2	0.3	0.6	0.9	20	1.2	0.6	0.2	85	0.18	0.036
L8W 0150S	Soil		1.2	14.2	17.6	339	0.2	10.2	5.8	304	3.20	11.6	0.2	<0.5	0.6	16	1.2	0.4	0.2	68	0.13	0.042

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Method Analyte	Unit	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
MDL		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	0.05	1	0.5	
L6W 0150N	Soil	10	22	0.65	117	0.024	<20	1.97	0.005	0.05	0.1	0.02	3.1	<0.1	<0.05	7	0.7
L6W 0200N	Soil	43	28	0.52	70	0.068	<20	0.95	0.014	0.05	0.1	0.03	0.8	<0.1	<0.05	8	<0.5
L6W 0250N	Soil	6	20	0.54	105	0.012	<20	2.08	0.004	0.06	0.1	0.04	2.8	<0.1	<0.05	7	<0.5
L6W 0300N	Soil	11	20	0.45	154	0.008	<20	2.10	0.006	0.05	<0.1	0.04	3.0	<0.1	<0.05	7	<0.5
L6W 0350N	Soil	6	18	0.60	105	0.017	<20	1.70	0.007	0.04	<0.1	0.01	2.8	<0.1	<0.05	6	<0.5
L6W 0400N	Soil	7	15	0.47	96	0.028	<20	1.87	0.006	0.04	<0.1	0.03	2.7	<0.1	<0.05	7	<0.5
L6W 0450N	Soil	7	16	0.43	105	0.019	<20	1.82	0.005	0.05	<0.1	0.03	3.0	<0.1	<0.05	7	<0.5
L6W 0500N	Soil	7	17	0.60	109	0.010	<20	2.11	0.005	0.06	<0.1	0.04	3.3	<0.1	<0.05	6	0.7
L6W 0550N	Soil	11	21	0.69	136	0.018	<20	2.08	0.005	0.06	<0.1	0.05	5.4	<0.1	<0.05	6	0.7
L6W 0600N	Soil	7	15	0.50	133	0.009	<20	1.80	0.005	0.04	<0.1	0.02	2.9	<0.1	<0.05	6	<0.5
L6W 0650N	Soil	7	17	0.62	106	0.013	<20	1.71	0.006	0.05	0.1	0.02	4.0	<0.1	<0.05	4	0.5
L8W 0000	Soil	6	19	0.37	69	0.021	<20	1.57	0.005	0.04	<0.1	0.02	2.5	<0.1	<0.05	9	<0.5
L8W 0050N	Soil	13	20	0.42	136	0.010	<20	1.97	0.006	0.05	0.1	0.07	4.3	<0.1	<0.05	7	0.8
L8W 0100N	Soil	10	18	0.42	107	0.013	<20	1.98	0.006	0.05	<0.1	0.02	3.4	<0.1	<0.05	8	<0.5
L8W 0150N	Soil	6	20	0.44	95	0.018	<20	1.99	0.008	0.05	0.1	0.05	2.8	<0.1	<0.05	7	<0.5
L8W 0200N	Soil	5	20	0.48	89	0.018	<20	1.88	0.005	0.04	<0.1	0.03	3.2	<0.1	<0.05	7	<0.5
L8W 0250N	Soil	14	19	0.77	128	0.021	<20	1.72	0.009	0.07	<0.1	0.08	5.5	<0.1	<0.05	5	<0.5
L8W 0300N	Soil	6	21	0.70	113	0.017	<20	2.05	0.005	0.07	<0.1	0.02	3.4	<0.1	0.06	6	<0.5
L8W 0350N	Soil	14	22	0.60	228	0.028	<20	2.18	0.006	0.09	<0.1	0.03	3.2	<0.1	0.07	7	0.7
L8W 0400N	Soil	8	16	0.39	121	0.016	<20	1.45	0.006	0.07	0.2	0.02	1.9	<0.1	<0.05	6	<0.5
L8W 0450N	Soil	10	20	0.66	145	0.013	<20	1.95	0.006	0.09	<0.1	0.02	3.7	<0.1	0.07	6	<0.5
L8W 0500N	Soil	9	20	0.59	96	0.019	<20	2.04	0.005	0.05	0.2	0.02	3.2	<0.1	<0.05	8	<0.5
L8W 0550N	Soil	12	23	0.65	103	0.045	<20	1.82	0.007	0.06	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5
L8W 0600N	Soil	7	16	0.57	76	0.013	<20	1.92	0.005	0.05	<0.1	0.01	3.1	<0.1	<0.05	6	<0.5
L8W 0650N	Soil	7	19	0.63	68	0.017	<20	2.01	0.006	0.07	<0.1	0.02	3.3	<0.1	<0.05	6	<0.5
L8W 0700N	Soil	9	17	0.42	130	0.010	<20	2.09	0.007	0.06	<0.1	0.03	3.9	0.1	<0.05	7	<0.5
L8W 0750N	Soil	8	31	0.74	164	0.029	<20	1.67	0.008	0.07	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5
L8W 0050S	Soil	6	22	0.54	117	0.024	<20	2.08	0.007	0.04	0.1	0.02	3.7	<0.1	<0.05	9	<0.5
L8W 0100S	Soil	6	23	0.60	95	0.033	<20	2.28	0.008	0.05	0.1	0.05	4.3	<0.1	<0.05	8	<0.5
L8W 0150S	Soil	6	17	0.38	99	0.022	<20	1.61	0.006	0.04	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX 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
L8W 0200S	Soil		1.9	30.3	35.8	471	0.7	10.8	12.0	860	4.41	18.4	0.2	<0.5	0.6	16	2.1	0.6	0.6	89	0.19	0.055
L8W 0250S	Soil		1.9	25.6	58.9	448	0.2	14.2	12.1	811	4.74	38.2	0.1	1.5	0.3	13	1.8	0.7	0.2	87	0.20	0.035
L8W 0300S	Soil		1.1	24.7	45.3	405	0.7	15.6	8.7	407	4.51	29.7	0.2	0.6	0.4	11	1.2	0.6	0.2	92	0.11	0.031
L8W 0350S	Soil		1.2	16.0	22.8	195	0.3	12.0	7.8	299	3.82	19.9	0.2	<0.5	0.3	13	1.0	2.1	0.1	84	0.17	0.037
L8W 0400S	Soil		1.1	19.5	23.8	246	0.1	17.4	12.0	583	4.39	20.0	0.2	<0.5	0.4	18	0.7	0.6	0.2	105	0.23	0.032
L8W 0450S	Soil		1.6	35.9	34.2	270	0.3	18.7	12.7	971	3.78	18.0	0.3	<0.5	0.4	25	1.0	0.4	0.1	71	0.44	0.036
L8W 0500S	Soil		1.1	23.5	38.2	287	0.1	16.7	12.0	444	4.20	25.8	0.2	<0.5	0.5	9	0.5	0.6	0.1	72	0.10	0.048
L8W 0550S	Soil		0.9	18.2	18.5	184	0.2	12.6	7.2	272	3.10	14.3	0.3	<0.5	0.5	16	0.5	0.3	0.1	67	0.19	0.022
L8W 0600S	Soil		1.3	14.2	26.2	284	0.3	9.6	7.9	371	3.96	16.8	0.1	<0.5	0.5	10	1.3	0.4	0.2	71	0.10	0.027
L8W 0650S	Soil		1.4	8.4	28.3	220	0.3	8.2	6.0	240	3.37	20.4	0.2	<0.5	0.4	10	0.9	0.4	0.1	75	0.11	0.020
L8W 0700S	Soil		1.1	39.2	31.2	269	0.2	18.2	13.5	921	3.70	25.1	0.4	0.6	0.5	25	0.6	0.7	0.1	70	0.47	0.037
L8W 0750S	Soil		2.0	55.6	42.2	414	0.9	27.0	15.8	1693	5.21	32.4	0.7	<0.5	0.7	53	1.7	0.7	0.2	95	1.00	0.073
L8W 0800S	Soil		1.3	19.4	40.3	184	0.1	12.5	14.6	847	3.87	16.9	0.2	<0.5	0.4	20	0.5	0.3	0.2	93	0.33	0.038
L8W 0850S	Soil		0.9	17.1	17.6	169	0.2	15.6	12.3	532	3.93	16.5	0.2	<0.5	0.5	16	0.5	0.5	0.1	91	0.25	0.028
L8W 0900S	Soil		1.2	36.8	24.1	176	<0.1	26.8	16.8	486	4.69	31.2	0.3	0.6	0.8	12	0.3	0.8	0.1	102	0.13	0.054
L8W 0950S	Soil		1.8	12.6	21.9	197	0.2	12.0	10.1	667	4.78	18.3	0.2	<0.5	0.5	14	0.5	0.3	0.2	99	0.17	0.056
L8W 1000S	Soil		1.1	16.8	13.5	179	0.2	13.7	9.2	573	3.79	14.8	0.2	<0.5	0.6	13	0.4	0.4	0.1	82	0.13	0.048
L8W 1050S	Soil		1.1	26.7	17.2	188	0.2	23.2	12.1	461	4.76	22.2	0.3	<0.5	0.7	15	0.3	0.4	0.2	94	0.14	0.051
L8W 1100S	Soil		1.8	29.3	24.5	286	0.5	15.5	13.4	937	4.19	21.2	0.2	<0.5	0.5	34	1.0	0.5	0.2	79	0.53	0.028
L8W 1150S	Soil		1.1	32.2	16.7	212	0.3	20.0	12.7	1041	4.00	21.8	0.3	0.9	0.6	24	0.7	0.6	0.2	68	0.35	0.030
L8W 1200S	Soil		2.4	20.4	27.1	505	1.1	13.3	17.1	1613	4.74	26.2	0.2	<0.5	0.6	19	2.8	0.4	0.3	79	0.27	0.038
L8W 1250S	Soil		2.0	20.1	19.5	237	0.2	13.5	9.8	473	5.28	27.3	0.2	<0.5	0.7	12	0.7	0.5	0.3	94	0.13	0.042
L8W 1300S	Soil		3.0	13.5	13.6	153	0.2	8.6	6.9	278	3.65	12.6	0.1	<0.5	0.4	16	0.7	0.4	0.3	86	0.24	0.025
L8W 1350S	Soil		1.6	39.7	24.1	218	0.9	16.2	14.0	1503	4.18	16.0	0.3	<0.5	0.9	27	1.1	0.9	0.2	67	0.43	0.019
L8W 1400S	Soil		1.6	26.3	21.2	209	0.4	11.5	9.0	507	4.42	18.9	0.1	16.0	0.3	14	0.8	0.6	0.3	86	0.14	0.034
L8W 1450S	Soil		1.6	28.6	22.6	167	0.5	15.8	10.9	639	4.28	21.0	0.2	<0.5	0.3	18	0.7	0.6	0.3	86	0.26	0.036
L8W 1500S	Soil		1.9	41.1	24.3	227	0.3	17.0	13.3	2031	5.24	16.9	0.2	<0.5	0.7	17	1.1	0.4	0.4	97	0.27	0.056
L8W 1550S	Soil		1.9	27.7	39.2	315	0.2	12.5	14.9	3186	7.62	22.2	0.1	<0.5	0.6	17	2.1	0.7	0.4	87	0.32	0.061
L8W 1600S	Soil		1.6	13.7	27.0	166	0.2	7.6	6.9	370	3.99	12.3	0.1	<0.5	0.5	11	0.9	0.5	0.4	95	0.14	0.033
L8W 1650S	Soil		1.4	67.9	72.6	461	0.6	17.1	20.4	6343	6.89	28.3	0.1	0.5	0.1	39	8.5	2.3	0.3	26	0.83	0.141

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method	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	
Unit	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	0.01	0.05	1	0.5	
L8W 0200S	Soil	6	19	0.46	110	0.027	<20	1.83	0.006	0.06	0.1	0.04	3.0	<0.1	<0.05	9	0.6
L8W 0250S	Soil	4	25	0.68	95	0.021	<20	1.87	0.004	0.05	<0.1	0.03	2.9	<0.1	<0.05	7	<0.5
L8W 0300S	Soil	4	23	0.62	83	0.026	<20	1.91	0.004	0.04	<0.1	0.04	2.8	<0.1	<0.05	7	<0.5
L8W 0350S	Soil	4	19	0.38	116	0.020	<20	1.51	0.002	0.03	<0.1	0.03	2.2	<0.1	<0.05	6	<0.5
L8W 0400S	Soil	4	28	0.67	130	0.040	<20	2.03	0.004	0.04	0.1	0.03	3.4	<0.1	<0.05	7	<0.5
L8W 0450S	Soil	11	29	0.74	138	0.014	<20	2.43	0.008	0.04	<0.1	0.04	6.0	<0.1	<0.05	6	<0.5
L8W 0500S	Soil	4	23	0.69	115	0.025	<20	2.17	0.005	0.03	<0.1	0.03	3.2	<0.1	<0.05	6	<0.5
L8W 0550S	Soil	7	21	0.45	91	0.020	<20	1.75	0.007	0.03	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5
L8W 0600S	Soil	5	17	0.47	84	0.020	<20	1.56	0.005	0.03	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5
L8W 0650S	Soil	4	17	0.35	69	0.018	<20	1.54	0.005	0.04	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5
L8W 0700S	Soil	12	29	0.78	124	0.019	<20	2.22	0.007	0.04	<0.1	0.04	6.6	<0.1	<0.05	6	<0.5
L8W 0750S	Soil	20	34	0.83	255	0.010	<20	3.54	0.010	0.08	<0.1	0.07	12.9	0.1	0.05	9	0.7
L8W 0800S	Soil	8	23	0.37	132	0.019	<20	2.11	0.007	0.05	0.1	0.03	3.4	<0.1	<0.05	7	<0.5
L8W 0850S	Soil	5	25	0.63	116	0.035	<20	2.04	0.005	0.04	<0.1	0.01	3.1	<0.1	<0.05	7	<0.5
L8W 0900S	Soil	4	35	0.80	166	0.037	<20	2.69	0.006	0.04	<0.1	0.03	4.5	<0.1	<0.05	7	<0.5
L8W 0950S	Soil	5	24	0.43	129	0.024	<20	2.13	0.006	0.04	<0.1	0.04	2.8	<0.1	<0.05	8	<0.5
L8W 1000S	Soil	5	23	0.44	126	0.024	<20	1.81	0.006	0.04	<0.1	0.03	2.7	<0.1	<0.05	7	<0.5
L8W 1050S	Soil	5	32	0.65	177	0.031	<20	2.72	0.006	0.06	<0.1	0.03	3.8	<0.1	<0.05	8	<0.5
L8W 1100S	Soil	15	25	0.52	137	0.013	<20	1.84	0.006	0.05	<0.1	0.03	4.4	<0.1	<0.05	7	0.5
L8W 1150S	Soil	8	26	0.56	138	0.017	<20	1.61	0.005	0.05	<0.1	0.02	4.7	<0.1	<0.05	5	<0.5
L8W 1200S	Soil	6	22	0.53	149	0.022	<20	1.97	0.006	0.06	0.1	0.04	3.3	<0.1	<0.05	7	<0.5
L8W 1250S	Soil	5	22	0.60	88	0.021	<20	2.06	0.005	0.05	<0.1	0.03	3.2	<0.1	<0.05	8	<0.5
L8W 1300S	Soil	5	17	0.30	58	0.019	<20	1.31	0.005	0.03	0.1	0.02	2.1	<0.1	<0.05	7	<0.5
L8W 1350S	Soil	6	25	0.63	112	0.039	<20	1.76	0.007	0.03	<0.1	0.03	4.5	<0.1	<0.05	5	<0.5
L8W 1400S	Soil	4	18	0.35	88	0.011	<20	1.49	0.006	0.04	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5
L8W 1450S	Soil	5	24	0.54	104	0.016	<20	1.84	0.006	0.04	<0.1	0.03	2.9	<0.1	<0.05	6	<0.5
L8W 1500S	Soil	7	26	0.53	286	0.019	<20	2.41	0.007	0.07	<0.1	0.04	3.9	<0.1	<0.05	8	<0.5
L8W 1550S	Soil	5	19	0.38	224	0.012	<20	1.71	0.004	0.05	<0.1	0.03	4.0	<0.1	0.05	6	<0.5
L8W 1600S	Soil	5	16	0.29	131	0.020	<20	1.34	0.005	0.03	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5
L8W 1650S	Soil	5	8	0.12	256	0.007	<20	0.89	0.006	0.04	0.1	0.05	3.4	<0.1	0.14	3	0.5

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX 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
L10W 0000	Soil			1.4	61.0	69.0	775	0.5	16.2	13.0	1335	3.79	22.3	0.2	0.7	0.2	26	3.6	0.7	0.3	69	0.42	0.084
L10W 0050N	Soil			1.8	31.3	76.2	822	0.7	11.7	16.7	2210	4.73	22.1	0.2	0.6	0.3	23	4.8	0.4	0.3	76	0.36	0.088
L10W 0100N	Soil			1.7	15.0	33.4	905	1.1	11.8	9.4	721	4.65	25.9	0.2	<0.5	0.5	15	1.6	0.5	0.3	72	0.18	0.036
L10W 0150N	Soil			1.5	39.8	45.9	963	0.7	21.0	16.9	1201	5.31	25.9	0.2	<0.5	0.6	19	1.7	0.6	0.3	106	0.21	0.044
L10W 0200N	Soil			1.1	18.7	50.8	847	0.4	14.9	12.2	841	4.67	22.7	0.2	<0.5	0.6	12	1.5	0.3	0.5	74	0.11	0.067
L10W 0250N	Soil			1.5	35.5	29.9	657	0.6	13.0	10.2	703	4.09	23.7	0.2	0.9	0.4	19	2.1	0.4	0.5	74	0.23	0.034
L10W 0300N	Soil			2.0	47.8	33.2	461	0.4	14.9	11.5	531	4.22	30.1	0.2	4.2	0.3	14	1.3	0.6	0.4	88	0.14	0.066
L10W 0350N	Soil			1.8	55.2	48.7	613	0.7	13.0	14.8	2002	3.80	29.2	0.2	9.2	0.1	21	5.9	0.7	0.5	57	0.33	0.058
L10W 0400N	Soil			0.6	54.4	42.4	313	0.4	17.0	13.8	1502	3.42	20.5	0.2	0.8	0.2	47	1.4	0.4	0.3	56	0.54	0.080
L10W 0450N	Soil			0.9	157.1	46.0	734	1.3	16.6	12.4	2375	3.33	20.0	0.4	<0.5	0.1	26	9.0	0.6	0.4	49	0.45	0.125
L10W 0500N	Soil			1.0	77.5	37.8	660	0.6	16.1	12.3	1527	3.75	25.0	0.4	0.6	0.1	19	2.5	0.6	0.5	53	0.31	0.070
L10W 0550N	Soil			1.4	10.7	27.2	375	0.2	7.0	7.7	570	3.29	14.5	0.1	0.7	0.3	10	1.6	0.2	0.3	64	0.13	0.043
L10W 0600N	Soil			2.3	33.4	28.7	358	0.7	9.0	9.1	911	3.46	13.7	0.3	1.3	0.1	19	2.3	0.3	0.3	65	0.28	0.044
L10W 0650N	Soil			1.0	21.7	34.8	695	0.3	11.9	10.3	889	3.78	18.4	0.2	0.6	0.4	14	2.0	0.4	0.6	66	0.19	0.023
L10W 0700N	Soil			0.9	18.4	12.3	307	0.2	20.1	11.0	441	3.54	13.7	0.2	0.7	0.5	10	0.8	0.4	0.1	73	0.10	0.032
L10W 0050S	Soil			2.1	31.5	62.2	795	0.7	13.5	14.2	701	4.67	36.0	0.3	0.8	0.4	18	3.1	0.3	0.2	95	0.24	0.059
L10W 0100S	Soil			1.3	51.7	79.0	1478	0.6	20.0	13.3	1169	4.01	30.4	0.3	0.7	0.5	22	3.8	0.6	0.2	71	0.38	0.046
L10W 0150S	Soil			1.0	20.0	28.3	345	0.3	12.2	10.5	693	3.87	19.1	0.2	0.8	0.4	9	0.9	0.3	0.2	77	0.10	0.083
L10W 0200S	Soil			0.8	6.3	23.4	129	<0.1	5.4	4.9	774	2.94	8.7	0.1	<0.5	0.3	8	0.8	0.2	0.2	74	0.09	0.079
L10W 0250S	Soil			1.9	17.4	62.7	323	0.6	8.5	6.3	306	2.91	15.2	0.2	26.9	0.5	12	1.1	0.5	0.5	64	0.16	0.021
L10W 0300S	Soil			1.0	27.8	31.5	440	0.9	16.7	11.5	609	4.07	17.5	0.2	0.7	0.4	9	1.2	0.3	0.1	86	0.10	0.034
L10W 0350S	Soil			1.4	64.0	60.0	838	1.3	19.3	12.9	2177	4.11	21.1	0.3	0.7	0.6	26	4.6	0.4	0.2	73	0.64	0.048
L10W 0400S	Soil			0.7	29.0	19.3	434	0.5	16.1	9.3	865	3.11	16.2	0.2	0.7	0.4	23	1.9	0.4	<0.1	60	0.48	0.031
L10W 0450S	Soil			1.6	11.7	35.7	348	0.4	6.6	7.9	381	3.50	29.4	0.2	1.0	0.2	20	1.9	0.3	0.2	75	0.25	0.040
L10W 0500S	Soil			1.0	13.0	23.6	221	0.2	8.5	5.9	212	3.29	12.6	0.2	<0.5	0.5	17	0.8	0.3	0.1	79	0.20	0.027
L10W 0550S	Soil			1.5	16.7	21.2	344	0.7	10.7	9.2	501	3.72	21.3	0.1	<0.5	0.4	15	1.6	0.3	0.6	67	0.25	0.034
L10W 0600S	Soil			1.4	91.9	75.3	623	1.4	27.5	15.7	1484	5.17	30.4	0.5	0.9	0.9	37	2.4	0.3	0.4	87	0.75	0.055
L10W 0650S	Soil			1.5	10.0	21.2	322	0.2	9.8	8.3	657	3.53	13.8	<0.1	<0.5	0.3	14	2.4	0.3	0.2	81	0.20	0.037
L10W 0700S	Soil			1.0	27.1	29.9	283	0.2	17.9	11.6	445	4.47	23.7	0.2	<0.5	0.5	13	0.3	0.4	0.2	88	0.18	0.041
L10W 0750S	Soil			0.8	22.5	16.4	162	<0.1	16.1	11.8	899	3.46	19.2	0.2	0.7	0.4	16	0.3	0.5	0.1	75	0.20	0.032

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Project: Grouse Mountain
 Report Date: August 24, 2009

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SMI09000146.1

Method	Analyte	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
Unit		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	0.05	1	0.5	
L10W 0000	Soil	8	24	0.73	100	0.024	<20	1.99	0.005	0.05	<0.1	0.06	3.4	<0.1	0.06	6	<0.5
L10W 0050N	Soil	11	19	0.47	140	0.019	<20	1.97	0.005	0.06	<0.1	0.04	3.1	<0.1	<0.05	8	0.5
L10W 0100N	Soil	7	21	0.62	78	0.022	<20	2.13	0.006	0.04	0.2	0.03	2.9	<0.1	<0.05	7	<0.5
L10W 0150N	Soil	7	32	0.83	113	0.049	<20	2.77	0.006	0.07	<0.1	0.04	4.2	0.1	<0.05	9	<0.5
L10W 0200N	Soil	7	22	0.59	115	0.024	<20	2.43	0.006	0.05	<0.1	0.03	2.9	<0.1	<0.05	8	<0.5
L10W 0250N	Soil	8	22	0.63	97	0.021	<20	2.10	0.007	0.05	<0.1	0.03	3.3	<0.1	<0.05	6	<0.5
L10W 0300N	Soil	6	26	0.65	95	0.029	<20	1.94	0.009	0.06	<0.1	0.03	3.0	<0.1	<0.05	7	<0.5
L10W 0350N	Soil	8	20	0.56	116	0.010	<20	1.92	0.003	0.09	<0.1	0.02	3.3	<0.1	0.10	6	<0.5
L10W 0400N	Soil	7	20	0.58	204	0.018	<20	1.99	0.004	0.09	<0.1	0.01	3.1	<0.1	0.10	6	<0.5
L10W 0450N	Soil	31	19	0.51	166	0.012	<20	2.07	0.003	0.08	0.1	0.04	4.8	<0.1	0.12	5	0.9
L10W 0500N	Soil	13	21	0.65	135	0.011	<20	2.05	0.003	0.07	0.1	0.03	4.4	<0.1	0.07	6	0.8
L10W 0550N	Soil	4	14	0.27	120	0.013	<20	1.31	0.002	0.06	0.1	0.02	2.1	<0.1	<0.05	5	<0.5
L10W 0600N	Soil	8	16	0.29	104	0.015	<20	1.53	0.005	0.04	<0.1	0.03	2.4	<0.1	0.06	6	<0.5
L10W 0650N	Soil	6	16	0.56	97	0.023	<20	1.64	0.002	0.04	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5
L10W 0700N	Soil	4	29	0.66	80	0.018	<20	1.73	0.003	0.03	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5
L10W 0050S	Soil	8	23	0.51	137	0.018	<20	2.20	0.004	0.04	0.2	0.02	3.9	<0.1	<0.05	9	<0.5
L10W 0100S	Soil	8	27	0.77	140	0.022	<20	2.29	0.004	0.05	<0.1	0.03	6.0	0.1	<0.05	6	0.5
L10W 0150S	Soil	4	21	0.46	109	0.022	<20	2.16	0.002	0.03	0.1	0.05	2.9	<0.1	<0.05	7	0.6
L10W 0200S	Soil	4	14	0.17	81	0.031	<20	1.09	0.003	0.03	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5
L10W 0250S	Soil	5	15	0.31	53	0.034	<20	1.11	0.003	0.03	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5
L10W 0300S	Soil	5	25	0.58	85	0.038	<20	2.07	0.003	0.04	<0.1	0.04	3.6	<0.1	<0.05	7	<0.5
L10W 0350S	Soil	13	31	0.71	154	0.010	<20	2.70	0.005	0.06	<0.1	0.07	9.0	0.1	<0.05	7	<0.5
L10W 0400S	Soil	8	18	0.58	132	0.018	<20	1.82	0.005	0.05	<0.1	0.03	6.1	<0.1	0.05	5	0.5
L10W 0450S	Soil	6	15	0.18	115	0.018	<20	1.43	0.004	0.05	0.2	0.02	2.0	<0.1	<0.05	7	<0.5
L10W 0500S	Soil	5	19	0.25	80	0.015	<20	1.59	0.005	0.03	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5
L10W 0550S	Soil	5	18	0.54	139	0.008	<20	1.72	0.003	0.06	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5
L10W 0600S	Soil	23	39	0.81	249	0.006	<20	3.88	0.008	0.07	0.1	0.07	11.6	0.1	<0.05	10	0.8
L10W 0650S	Soil	6	21	0.45	78	0.021	<20	1.47	0.003	0.04	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5
L10W 0700S	Soil	5	27	0.74	93	0.020	<20	2.41	0.004	0.04	<0.1	0.02	4.4	<0.1	<0.05	7	<0.5
L10W 0750S	Soil	6	24	0.61	118	0.026	<20	1.75	0.004	0.04	<0.1	0.02	3.6	<0.1	<0.05	6	<0.5

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method Analyte Unit MDL	1DX Mo ppm	1DX Cu ppm	1DX Pb ppm	1DX Zn ppm	1DX Ag ppm	1DX Ni ppm	1DX Co ppm	1DX Mn ppm	1DX Fe %	1DX As ppm	1DX U ppm	1DX Au ppb	1DX Th ppm	1DX Sr ppm	1DX Cd ppm	1DX Sb ppm	1DX Bi ppm	1DX V ppm	1DX Ca %	1DX P %	
L10W 0800S	Soil	1.9	24.2	28.6	191	0.1	15.4	15.8	685	3.86	20.2	0.2	<0.5	0.5	20	0.4	0.4	0.2	91	0.38	0.029
L10W 0850S	Soil	1.3	11.5	25.0	297	0.1	11.9	17.0	1632	4.32	15.2	0.1	<0.5	0.4	18	1.2	0.3	0.2	106	0.27	0.034
L10W 0900S	Soil	1.5	13.0	15.9	225	<0.1	13.9	11.2	521	4.07	17.4	0.2	<0.5	0.4	15	0.5	0.3	0.1	90	0.20	0.035
L10W 0950S	Soil	1.1	31.5	21.1	196	<0.1	21.3	13.5	576	4.16	21.1	0.2	<0.5	0.5	19	0.4	0.4	0.1	91	0.26	0.032
L10W 1000S	Soil	1.3	29.5	23.2	246	0.1	17.7	12.8	819	3.99	19.1	0.3	<0.5	0.4	19	0.5	0.3	0.2	79	0.28	0.045
L10W 1050S	Soil	1.9	14.7	21.5	235	0.2	10.4	9.7	540	3.62	16.8	0.1	<0.5	0.2	12	1.1	0.4	0.2	80	0.15	0.027
L10W 1100S	Soil	1.4	17.6	14.8	235	0.1	11.4	10.2	600	3.31	11.7	0.2	7.6	0.4	17	1.1	0.2	0.2	78	0.24	0.030
L10W 1150S	Soil	1.2	13.9	13.1	304	<0.1	10.3	11.2	1180	3.53	12.4	0.2	<0.5	0.3	19	1.6	0.3	0.2	65	0.28	0.040
L10W 1200S	Soil	1.3	41.6	31.7	248	0.2	17.4	21.1	1507	4.17	23.3	0.3	<0.5	0.7	32	0.8	0.2	0.3	68	0.51	0.045
L10W 1250S	Soil	1.0	28.8	13.4	186	0.3	17.4	12.9	941	3.78	21.2	0.3	<0.5	0.4	24	0.7	0.5	0.2	65	0.46	0.032
L10W 1300S	Soil	1.4	21.9	16.0	204	0.3	13.6	10.6	433	4.40	21.2	0.2	<0.5	0.4	15	0.6	0.4	0.2	82	0.24	0.035
L10W 1350S	Soil	1.1	20.0	17.7	134	0.2	11.3	10.2	420	3.74	16.9	0.1	<0.5	0.5	15	0.3	0.2	0.2	82	0.20	0.024
L10W 1400S	Soil	1.1	35.9	15.1	154	<0.1	12.7	10.2	552	3.25	14.4	0.2	0.6	0.4	15	0.2	0.2	0.2	93	0.23	0.033
L10W 1450S	Soil	1.5	57.1	21.9	201	0.2	17.9	10.6	572	4.44	25.2	0.3	0.8	0.7	13	0.4	0.4	0.4	96	0.18	0.053
L10W 1500S	Soil	1.3	28.8	27.2	117	0.1	13.2	9.2	375	3.86	55.6	0.3	0.5	0.6	11	0.2	0.9	0.4	116	0.14	0.021
L10W 1550S	Soil	1.3	76.3	62.7	339	0.7	20.8	17.5	4129	5.03	36.6	0.7	<0.5	1.4	35	2.6	0.9	0.5	82	0.79	0.059
L10W 1600S	Soil	1.2	49.9	39.9	228	0.5	20.3	14.4	3247	4.44	38.6	0.7	<0.5	0.9	45	1.3	0.9	0.4	72	0.78	0.052
L10W 1650S	Soil	1.1	85.9	30.5	222	0.3	16.3	11.1	585	4.25	45.9	0.2	<0.5	0.6	17	0.7	1.2	0.3	73	0.22	0.030
L10W 1700S	Soil	0.8	12.7	28.0	152	0.1	10.6	8.2	323	3.08	24.1	0.2	<0.5	0.5	12	0.5	0.6	0.2	70	0.13	0.020
L10W 1750S	Soil	0.6	9.9	8.2	86	<0.1	9.0	5.6	333	2.52	6.6	0.2	<0.5	0.6	11	0.2	0.3	0.1	65	0.11	0.030
L10W 1800S	Soil	1.0	26.0	25.3	180	0.2	15.9	12.8	1399	3.33	22.9	0.2	<0.5	0.1	23	0.8	0.8	0.3	59	0.41	0.069
L12W 0000	Soil	1.6	32.4	55.7	688	0.3	11.5	12.6	1948	3.99	23.2	0.2	<0.5	0.2	22	5.1	0.7	0.2	76	0.36	0.048
L12W 0050N	Soil	1.4	20.6	43.1	629	0.8	10.1	10.1	1132	3.81	21.5	0.1	0.6	0.4	18	2.2	0.4	0.2	64	0.26	0.030
L12W 0100N	Soil	1.3	30.6	37.8	777	1.0	11.7	10.4	821	4.24	15.5	0.3	0.8	0.3	18	3.2	0.4	0.3	81	0.26	0.096
L12W 0150N	Soil	1.7	17.9	84.5	294	0.6	8.6	7.2	408	3.74	16.2	0.2	3.4	0.6	14	0.9	0.3	0.2	64	0.14	0.064
L12W 0200N	Soil	1.1	11.5	32.6	312	0.5	8.4	6.1	323	3.27	12.5	0.2	172.0	0.4	16	1.3	0.4	0.2	72	0.23	0.056
L12W 0250N	Soil	1.8	47.9	49.7	747	1.0	15.5	12.6	2002	3.70	22.1	0.3	<0.5	0.3	23	7.7	0.4	0.4	69	0.28	0.059
L12W 0300N	Soil	1.6	36.9	45.8	469	0.3	14.4	10.6	771	3.87	32.9	0.2	1.3	0.4	10	1.6	0.9	0.5	62	0.12	0.034
L12W 0350N	Soil	1.1	32.7	30.9	297	0.2	17.2	12.5	1053	3.47	26.8	0.2	44.2	0.4	15	1.0	0.7	0.3	57	0.21	0.050
L12W 0400N	Soil	1.0	27.7	17.0	272	0.1	18.0	10.4	679	3.41	17.7	0.2	1.2	0.7	17	1.1	0.4	0.2	60	0.20	0.091

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Method Analyte	Unit	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
MDL		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	0.05	1	0.5	
L10W 0800S	Soil	9	27	0.60	95	0.024	<20	1.93	0.004	0.06	<0.1	0.02	4.9	<0.1	<0.05	7	<0.5
L10W 0850S	Soil	5	23	0.40	169	0.042	<20	1.64	0.005	0.05	<0.1	0.02	2.9	<0.1	<0.05	7	<0.5
L10W 0900S	Soil	4	23	0.45	126	0.039	<20	1.76	0.004	0.05	<0.1	0.02	3.0	<0.1	<0.05	7	<0.5
L10W 0950S	Soil	7	30	0.73	113	0.027	<20	2.22	0.005	0.05	<0.1	0.03	4.4	<0.1	<0.05	7	<0.5
L10W 1000S	Soil	6	25	0.59	153	0.018	<20	2.29	0.003	0.07	<0.1	0.04	3.8	<0.1	<0.05	7	<0.5
L10W 1050S	Soil	4	20	0.38	115	0.021	<20	1.37	0.003	0.05	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5
L10W 1100S	Soil	7	20	0.43	141	0.016	<20	1.55	0.004	0.04	<0.1	0.02	3.0	<0.1	<0.05	6	0.6
L10W 1150S	Soil	5	17	0.41	187	0.021	<20	1.51	0.003	0.05	<0.1	0.02	2.5	<0.1	<0.05	7	<0.5
L10W 1200S	Soil	13	24	0.60	198	0.007	<20	2.76	0.005	0.08	<0.1	0.03	5.5	0.1	<0.05	8	<0.5
L10W 1250S	Soil	8	24	0.71	124	0.018	<20	1.93	0.005	0.05	<0.1	0.01	4.7	<0.1	<0.05	6	<0.5
L10W 1300S	Soil	4	20	0.59	100	0.018	<20	1.88	0.004	0.05	<0.1	0.02	3.3	<0.1	<0.05	7	<0.5
L10W 1350S	Soil	5	19	0.48	139	0.014	<20	1.83	0.004	0.04	<0.1	0.01	3.3	<0.1	<0.05	6	<0.5
L10W 1400S	Soil	6	18	0.51	211	0.010	<20	1.93	0.004	0.04	<0.1	0.01	3.0	<0.1	<0.05	6	<0.5
L10W 1450S	Soil	5	23	0.62	253	0.012	<20	2.55	0.005	0.05	0.1	0.04	3.8	<0.1	<0.05	7	0.5
L10W 1500S	Soil	4	20	0.53	198	0.012	<20	1.71	0.004	0.04	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5
L10W 1550S	Soil	15	27	0.67	343	0.018	<20	2.81	0.007	0.07	0.1	0.07	11.3	0.1	0.05	7	0.7
L10W 1600S	Soil	19	25	0.62	445	0.019	<20	2.39	0.006	0.05	<0.1	0.06	7.3	0.1	<0.05	6	1.7
L10W 1650S	Soil	5	19	0.49	297	0.015	<20	1.74	0.004	0.04	<0.1	0.01	3.0	<0.1	<0.05	6	0.5
L10W 1700S	Soil	5	16	0.38	253	0.016	<20	1.31	0.005	0.04	0.1	0.01	2.2	<0.1	<0.05	5	<0.5
L10W 1750S	Soil	4	19	0.31	121	0.031	<20	1.00	0.006	0.04	<0.1	<0.01	1.7	<0.1	<0.05	4	0.9
L10W 1800S	Soil	5	19	0.52	255	0.021	<20	1.50	0.005	0.08	<0.1	0.02	2.4	<0.1	<0.05	4	0.7
L12W 0000	Soil	6	22	0.55	110	0.032	<20	1.71	0.004	0.05	0.1	0.02	2.5	<0.1	<0.05	6	<0.5
L12W 0050N	Soil	5	17	0.57	133	0.013	<20	1.77	0.004	0.04	<0.1	0.03	2.5	<0.1	<0.05	6	<0.5
L12W 0100N	Soil	8	20	0.52	135	0.019	<20	1.83	0.009	0.04	0.1	0.04	3.3	<0.1	<0.05	7	0.5
L12W 0150N	Soil	5	16	0.35	80	0.018	<20	1.51	0.004	0.04	<0.1	0.04	2.1	<0.1	<0.05	6	<0.5
L12W 0200N	Soil	6	17	0.39	133	0.020	<20	1.37	0.006	0.03	<0.1	0.02	2.2	<0.1	<0.05	6	0.6
L12W 0250N	Soil	9	26	0.49	136	0.015	<20	1.92	0.006	0.06	0.1	0.04	3.2	<0.1	<0.05	6	0.6
L12W 0300N	Soil	5	20	0.66	74	0.018	<20	1.61	0.006	0.05	0.1	0.02	3.1	<0.1	<0.05	5	0.5
L12W 0350N	Soil	5	20	0.60	115	0.016	<20	1.49	0.005	0.06	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5
L12W 0400N	Soil	5	24	0.57	127	0.013	<20	1.51	0.005	0.06	<0.1	0.04	3.4	<0.1	<0.05	5	<0.5

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	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	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 0050S	Soil	1.6	40.5	115.0	1571	0.5	12.2	14.9	2933	4.40	17.0	0.2	0.9	0.3	22	7.3	0.4	0.3	77	0.31	0.044		
L12W 0100S	Soil	1.9	13.3	286.8	543	0.8	10.9	10.1	673	4.21	22.3	0.2	<0.5	0.4	16	3.2	0.4	0.2	80	0.18	0.037		
L12W 0150S	Soil	1.1	13.3	49.2	480	0.3	11.2	12.9	722	3.80	18.3	0.2	0.9	0.4	19	1.7	0.4	0.2	88	0.26	0.034		
L12W 0200S	Soil	1.2	34.4	63.1	458	<0.1	21.4	14.2	506	4.60	25.5	0.4	1.9	0.9	10	0.6	0.6	0.2	90	0.10	0.056		
L12W 0250S	Soil	0.9	11.7	30.9	380	0.2	11.3	9.8	704	3.66	15.5	0.2	2.4	0.4	22	1.4	0.4	0.1	80	0.30	0.026		
L12W 0300S	Soil	1.2	35.6	35.8	262	0.1	17.0	15.6	857	4.25	25.3	0.3	1.1	0.5	21	0.8	0.5	0.2	80	0.24	0.054		
L12W 0350S	Soil	0.8	26.4	32.6	286	0.4	14.5	10.9	682	3.60	30.7	0.2	0.6	0.6	18	1.2	0.5	0.1	67	0.33	0.020		
L12W 0400S	Soil	0.7	42.6	56.0	489	1.4	18.8	13.6	1543	4.07	26.3	0.3	4.3	0.6	29	2.1	0.5	0.1	70	0.50	0.035		
L12W 0450S	Soil	1.1	19.4	85.9	495	0.5	10.3	11.6	2473	4.39	20.9	0.2	<0.5	0.3	13	2.3	0.4	0.3	73	0.14	0.056		
L12W 0500S	Soil	1.6	18.6	58.0	469	0.8	11.1	11.9	1418	4.69	23.1	0.2	0.5	0.7	10	1.3	0.4	0.5	67	0.12	0.035		
L12W 0550S	Soil	1.3	35.2	49.7	421	0.5	15.0	14.0	1515	4.48	35.8	0.2	<0.5	0.6	22	1.3	0.6	0.3	70	0.34	0.041		
L12W 0600S	Soil	1.0	30.5	46.6	418	0.6	17.4	15.5	1338	4.58	25.5	0.3	1.3	0.4	18	1.1	0.4	0.3	88	0.20	0.049		
L12W 0650S	Soil	1.0	70.5	54.4	705	1.1	20.7	17.8	2643	4.36	23.0	0.3	<0.5	0.4	40	4.8	0.6	0.3	80	0.71	0.104		
L12W 0700S	Soil	1.2	36.5	54.9	637	0.4	16.1	19.4	3425	4.34	23.9	0.2	<0.5	0.3	33	5.0	0.5	0.2	88	0.60	0.076		
L12W 0750S	Soil	1.0	36.8	42.1	337	0.4	18.9	18.1	1719	4.55	22.0	0.3	0.6	0.6	40	1.8	0.5	0.2	97	0.61	0.056		
L12W 0800S	Soil	1.4	13.3	15.7	328	<0.1	13.7	11.2	526	3.86	13.1	0.3	1.8	0.7	21	1.7	0.3	0.2	88	0.28	0.023		
L12W 0850S	Soil	1.0	21.7	14.5	154	0.1	15.5	9.5	391	3.90	14.1	0.3	0.8	0.6	15	0.2	0.5	0.2	79	0.16	0.029		
L12W 0900S	Soil	1.4	12.9	25.5	222	<0.1	12.3	13.2	809	4.24	17.0	0.2	<0.5	0.5	11	0.5	0.3	0.2	80	0.14	0.071		
L12W 0950S	Soil	1.5	17.3	24.2	213	0.1	11.4	13.9	593	3.73	17.0	0.3	0.6	0.5	15	0.4	0.4	0.2	70	0.21	0.042		
L12W 1000S	Soil	1.2	19.7	17.2	204	0.2	13.9	12.5	599	3.62	16.9	0.2	<0.5	0.5	15	0.7	0.6	0.2	66	0.26	0.024		
L12W 1050S	Soil	1.1	30.7	29.4	225	0.2	19.5	15.5	1097	4.10	16.4	0.3	<0.5	0.8	23	0.8	0.4	0.2	71	0.40	0.033		
L12W 1100S	Soil	1.5	42.6	29.5	197	0.8	17.7	13.1	658	3.96	22.8	0.6	<0.5	0.6	29	0.7	0.6	0.3	66	0.60	0.048		
L12W 1150S	Soil	1.2	25.2	22.7	184	<0.1	16.9	13.2	459	4.51	37.4	0.2	<0.5	0.7	10	0.4	0.5	0.3	70	0.12	0.046		
L12W 1200S	Soil	1.1	15.2	19.5	201	<0.1	14.8	13.9	643	3.82	24.6	0.2	<0.5	0.7	16	0.5	0.4	0.2	68	0.24	0.042		
L12W 1250S	Soil	1.3	15.0	21.2	142	0.2	11.8	10.7	338	3.78	19.7	0.2	1.8	0.4	23	0.6	0.4	0.3	79	0.30	0.021		
L12W 1300S	Soil	1.0	34.9	19.9	179	0.4	16.8	11.9	503	3.73	20.7	0.4	<0.5	0.6	35	0.4	0.5	0.2	68	0.43	0.043		
L12W 1350S	Soil	2.7	16.7	25.4	180	0.4	11.2	8.6	367	4.02	20.3	0.2	<0.5	0.5	10	0.4	0.5	0.3	90	0.10	0.028		
L12W 1400S	Soil	1.0	32.8	26.2	200	0.3	16.7	12.4	952	3.91	29.9	0.3	<0.5	0.5	17	0.5	0.6	0.3	83	0.31	0.035		
L12W 1450S	Soil	1.4	39.2	28.5	221	0.4	21.8	15.1	872	4.94	32.9	0.3	<0.5	0.7	19	0.7	0.6	0.4	120	0.24	0.036		
L12W 1500S	Soil	5.9	39.7	57.5	278	0.8	17.6	14.7	3007	3.87	153.4	0.5	<0.5	0.3	12	2.1	2.3	0.4	72	0.23	0.077		

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se
				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	0.05	1	1	0.5
L12W 0050S	Soil			6	21	0.50	153	0.021	<20	1.85	0.004	0.07	0.1	0.03	2.9	<0.1	<0.05	8	0.6
L12W 0100S	Soil			5	21	0.51	83	0.021	<20	1.70	0.003	0.06	<0.1	0.02	2.6	<0.1	<0.05	7	<0.5
L12W 0150S	Soil			6	21	0.43	109	0.024	<20	1.82	0.007	0.05	<0.1	0.02	2.7	<0.1	<0.05	7	0.7
L12W 0200S	Soil			6	31	0.72	106	0.030	<20	2.79	0.006	0.05	<0.1	0.05	5.2	0.1	<0.05	7	0.6
L12W 0250S	Soil			5	20	0.57	95	0.032	<20	1.59	0.005	0.05	<0.1	0.02	2.7	<0.1	<0.05	6	0.6
L12W 0300S	Soil			6	26	0.71	92	0.035	<20	2.65	0.006	0.04	<0.1	0.04	4.1	<0.1	<0.05	8	0.7
L12W 0350S	Soil			7	23	0.67	84	0.023	<20	1.67	0.006	0.04	<0.1	0.03	5.0	<0.1	<0.05	5	0.6
L12W 0400S	Soil			12	28	0.81	131	0.019	<20	2.24	0.008	0.05	0.1	0.05	6.7	0.1	<0.05	7	<0.5
L12W 0450S	Soil			9	18	0.52	95	0.016	<20	1.99	0.004	0.05	0.1	0.06	2.8	<0.1	<0.05	8	0.6
L12W 0500S	Soil			6	18	0.53	86	0.015	<20	2.12	0.004	0.04	<0.1	0.04	2.6	<0.1	<0.05	8	0.8
L12W 0550S	Soil			8	24	0.67	130	0.016	<20	2.32	0.007	0.06	<0.1	0.03	4.6	<0.1	<0.05	8	0.7
L12W 0600S	Soil			7	28	0.73	131	0.031	<20	2.74	0.007	0.07	<0.1	0.03	4.4	<0.1	<0.05	8	0.6
L12W 0650S	Soil			11	28	0.74	229	0.032	<20	2.47	0.007	0.09	<0.1	0.03	6.7	<0.1	0.05	7	<0.5
L12W 0700S	Soil			7	26	0.56	224	0.035	<20	2.22	0.010	0.08	0.1	0.04	4.5	<0.1	0.05	7	0.5
L12W 0750S	Soil			11	29	0.69	183	0.032	<20	2.78	0.009	0.08	0.1	0.02	5.9	<0.1	<0.05	8	0.8
L12W 0800S	Soil			6	24	0.54	101	0.049	<20	1.56	0.007	0.04	<0.1	0.01	3.1	<0.1	<0.05	8	<0.5
L12W 0850S	Soil			5	24	0.61	91	0.032	<20	1.76	0.008	0.04	<0.1	0.02	3.2	<0.1	<0.05	7	<0.5
L12W 0900S	Soil			5	20	0.44	97	0.027	<20	1.92	0.004	0.04	0.2	0.04	2.4	<0.1	<0.05	7	0.7
L12W 0950S	Soil			7	19	0.45	203	0.016	<20	1.87	0.005	0.04	<0.1	0.03	2.9	<0.1	<0.05	6	<0.5
L12W 1000S	Soil			5	22	0.60	97	0.017	<20	1.82	0.007	0.03	0.1	0.01	2.8	<0.1	<0.05	5	<0.5
L12W 1050S	Soil			8	26	0.54	189	0.009	<20	2.38	0.007	0.06	<0.1	0.04	4.8	<0.1	<0.05	7	<0.5
L12W 1100S	Soil			17	23	0.53	169	0.009	<20	2.57	0.008	0.06	<0.1	0.08	6.4	<0.1	0.06	6	0.8
L12W 1150S	Soil			4	20	0.68	121	0.022	<20	2.48	0.007	0.04	<0.1	0.03	3.1	<0.1	<0.05	7	<0.5
L12W 1200S	Soil			4	20	0.53	156	0.025	<20	2.02	0.006	0.07	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5
L12W 1250S	Soil			4	18	0.47	184	0.017	<20	1.61	0.006	0.04	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5
L12W 1300S	Soil			10	21	0.52	329	0.011	<20	2.48	0.007	0.05	0.1	0.04	4.0	<0.1	<0.05	6	0.5
L12W 1350S	Soil			4	19	0.48	144	0.014	<20	1.67	0.006	0.04	<0.1	0.03	2.1	<0.1	<0.05	6	<0.5
L12W 1400S	Soil			5	23	0.63	356	0.017	<20	2.15	0.007	0.05	<0.1	0.02	3.3	0.1	<0.05	5	<0.5
L12W 1450S	Soil			7	31	0.78	600	0.046	<20	2.29	0.008	0.06	<0.1	0.03	3.4	0.2	<0.05	7	<0.5
L12W 1500S	Soil			7	19	0.52	437	0.012	<20	2.20	0.003	0.05	0.1	0.05	3.3	0.7	<0.05	5	2.0

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	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	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 1550S	Soil	1.2	16.7	32.8	281	0.2	11.4	9.8	1273	3.19	48.4	0.2	<0.5	<0.1	20	3.4	1.6	0.5	68	0.34	0.084		
L12W 1600S	Soil	0.9	28.5	26.2	158	0.5	13.3	12.2	2272	3.84	46.3	0.3	<0.5	0.4	32	0.8	1.5	0.3	80	0.49	0.049		
L12W 1650S	Soil	1.7	19.5	21.6	183	0.2	13.3	11.4	1090	3.63	32.6	0.2	<0.5	0.3	38	1.0	0.6	0.3	77	0.43	0.048		
L12W 1700S	Soil	1.2	31.2	31.5	199	0.3	20.7	14.8	1457	4.57	33.6	0.3	<0.5	1.0	26	0.7	0.7	0.4	80	0.38	0.042		
L12W 1750S	Soil	1.1	44.4	23.0	157	0.7	21.4	13.7	918	3.88	21.2	0.7	<0.5	0.6	71	0.9	0.5	0.3	79	0.95	0.054		
L12W 1800S	Soil	1.2	14.3	13.3	132	<0.1	16.8	9.3	318	3.98	17.5	0.2	<0.5	0.5	11	0.4	0.5	0.2	82	0.10	0.030		
L12W 1850S	Soil	1.8	41.6	23.8	253	0.2	25.0	14.9	2658	5.37	22.2	0.4	<0.5	0.8	28	0.9	0.5	0.6	78	0.43	0.071		
L12W 1900S	Soil	1.3	26.4	23.2	279	0.3	19.6	14.8	2322	3.93	23.6	0.2	<0.5	0.2	31	1.3	0.8	0.3	59	0.53	0.065		
L12W 1950S	Soil	1.4	31.3	29.3	236	0.5	23.0	16.6	2134	3.88	25.4	0.2	<0.5	0.3	42	1.4	1.3	0.3	54	0.65	0.073		
L12W 2000S	Soil	1.3	30.6	20.4	336	0.3	22.5	13.7	1974	3.72	22.4	0.2	<0.5	0.1	31	2.0	0.9	0.3	59	0.50	0.089		
L14W 0000	Soil	1.3	19.1	51.6	438	0.9	13.3	12.4	1106	4.48	17.3	0.2	<0.5	0.5	19	1.4	0.5	0.2	89	0.29	0.029		
L14W 0050N	Soil	1.2	16.1	33.3	304	0.3	13.2	9.9	461	3.99	19.6	0.1	2.5	0.4	17	1.3	0.5	0.1	90	0.20	0.021		
L14W 0100N	Soil	1.3	57.6	123.1	1733	2.3	21.0	16.3	1664	4.64	28.7	0.5	<0.5	0.8	35	4.6	1.0	0.2	71	0.68	0.042		
L14W 0150N	Soil	0.8	91.0	42.6	962	1.3	18.0	13.3	1145	4.13	24.6	0.3	14.1	0.8	21	1.8	0.9	0.2	73	0.34	0.025		
L14W 0200N	Soil	0.7	27.0	43.4	992	0.5	18.6	14.4	2032	4.06	17.6	0.2	1.8	0.5	15	3.6	0.6	0.4	64	0.21	0.044		
L14W 0250N	Soil	0.8	84.4	20.0	624	0.7	7.3	9.0	7112	1.89	6.0	0.4	<0.5	0.2	54	7.3	0.3	0.1	32	1.59	0.339		
L14W 0300N	Soil	0.8	42.8	43.4	438	0.2	16.7	12.1	969	4.35	27.7	0.2	<0.5	0.4	14	0.6	0.3	0.2	80	0.26	0.106		
L14W 0350N	Soil	1.8	19.6	104.2	561	0.2	12.2	9.3	729	4.67	27.0	0.1	<0.5	0.3	14	1.0	0.4	0.3	82	0.24	0.076		
L14W 0400N	Soil	1.1	33.3	44.7	589	0.3	15.9	14.1	952	4.33	30.6	0.2	<0.5	0.5	9	0.9	0.6	0.5	66	0.14	0.048		
L14W 0450N	Soil	1.6	26.2	33.7	408	1.0	10.3	7.7	849	3.36	18.2	0.2	<0.5	0.3	15	2.4	0.4	0.4	64	0.22	0.053		
L14W 0500N	Soil	0.6	29.1	6.8	65	<0.1	27.5	9.7	506	3.20	9.7	0.2	<0.5	0.8	15	0.2	0.4	<0.1	50	0.15	0.057		
L14W 0550N	Soil	1.5	51.0	58.3	523	0.6	19.1	16.4	2147	3.98	25.4	0.2	1.6	0.6	18	2.1	1.1	0.5	53	0.38	0.078		
L14W 0050S	Soil	3.0	19.6	41.7	633	0.7	13.6	16.1	2404	4.69	18.5	0.2	<0.5	0.5	18	2.3	0.5	0.2	88	0.26	0.032		
L14W 0100S	Soil	1.3	29.7	71.8	463	0.6	17.6	14.8	1283	4.39	68.2	0.2	<0.5	0.6	22	2.4	0.6	0.2	74	0.32	0.026		
L14W 0150S	Soil	1.9	15.0	46.8	707	0.6	11.8	12.8	1452	4.25	27.8	0.1	<0.5	0.5	17	3.9	0.5	0.3	69	0.19	0.037		
L14W 0200S	Soil	0.9	35.4	40.3	337	0.3	17.2	13.0	887	3.99	34.1	0.2	<0.5	0.6	11	0.7	0.6	0.3	70	0.13	0.027		
L14W 0250S	Soil	0.9	16.3	33.0	383	0.3	14.3	9.3	599	3.92	21.8	0.1	74.0	0.6	13	1.0	0.5	0.3	73	0.23	0.022		
L14W 0300S	Soil	0.9	25.6	38.5	383	0.4	14.1	12.4	1708	4.10	43.4	0.2	<0.5	0.5	15	0.9	0.5	0.3	69	0.25	0.035		
L14W 0350S	Soil	0.9	42.4	37.0	353	0.4	18.0	12.8	815	4.41	31.0	0.2	<0.5	0.6	13	0.4	0.5	0.4	77	0.21	0.035		
L14W 0400S	Soil	1.9	28.1	30.3	412	0.5	9.1	19.7	5299	5.18	9.0	0.2	<0.5	0.3	24	5.4	0.5	0.3	76	0.56	0.073		

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se
		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	0.01	0.1	0.01	0.1	0.05	0.05	1	0.5	0.5
L12W 1550S	Soil	4	18	0.34	789	0.014	<20	1.20	0.004	0.18	<0.1	0.03	1.2	0.1	<0.05	5	<0.5		
L12W 1600S	Soil	5	19	0.49	685	0.019	<20	1.92	0.007	0.05	<0.1	0.03	2.7	0.1	<0.05	6	<0.5		
L12W 1650S	Soil	5	23	0.34	461	0.026	<20	1.55	0.007	0.06	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5		
L12W 1700S	Soil	8	26	0.53	401	0.018	<20	2.33	0.007	0.08	0.1	0.03	4.6	0.1	<0.05	7	0.5		
L12W 1750S	Soil	14	30	0.59	593	0.011	<20	2.63	0.013	0.06	0.1	0.07	7.2	<0.1	<0.05	7	0.7		
L12W 1800S	Soil	4	17	0.51	178	0.022	<20	1.84	0.006	0.04	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5		
L12W 1850S	Soil	11	30	0.58	423	0.008	<20	3.44	0.009	0.08	<0.1	0.05	5.6	0.1	<0.05	9	0.7		
L12W 1900S	Soil	6	21	0.52	249	0.019	<20	1.51	0.005	0.07	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5		
L12W 1950S	Soil	7	22	0.57	178	0.020	<20	1.35	0.006	0.07	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5		
L12W 2000S	Soil	5	22	0.55	198	0.023	<20	1.50	0.006	0.10	0.1	0.02	1.8	<0.1	0.05	6	<0.5		
L14W 0000	Soil	5	23	0.51	88	0.029	<20	1.80	0.006	0.05	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5		
L14W 0050N	Soil	5	21	0.56	72	0.022	<20	1.49	0.006	0.03	<0.1	0.01	2.4	<0.1	<0.05	6	<0.5		
L14W 0100N	Soil	13	29	0.82	107	0.027	<20	2.17	0.008	0.06	<0.1	0.06	8.0	<0.1	<0.05	6	1.0		
L14W 0150N	Soil	10	27	0.75	76	0.037	<20	1.72	0.006	0.05	<0.1	0.08	6.9	<0.1	<0.05	6	0.7		
L14W 0200N	Soil	7	22	0.78	127	0.028	<20	1.90	0.007	0.06	<0.1	0.03	3.1	<0.1	<0.05	6	<0.5		
L14W 0250N	Soil	8	10	0.47	320	0.009	<20	1.55	0.004	0.07	<0.1	0.07	3.0	<0.1	0.14	4	1.0		
L14W 0300N	Soil	5	22	0.63	130	0.015	<20	2.21	0.006	0.04	<0.1	0.02	2.8	<0.1	<0.05	7	0.6		
L14W 0350N	Soil	4	19	0.56	112	0.011	<20	1.82	0.005	0.04	0.1	0.03	2.2	<0.1	<0.05	7	<0.5		
L14W 0400N	Soil	5	19	0.65	113	0.017	<20	2.06	0.006	0.04	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5		
L14W 0450N	Soil	7	17	0.35	117	0.012	<20	1.42	0.007	0.05	<0.1	0.03	2.4	<0.1	<0.05	5	<0.5		
L14W 0500N	Soil	6	23	0.58	80	0.018	<20	1.46	0.007	0.04	<0.1	0.03	2.9	<0.1	<0.05	5	<0.5		
L14W 0550N	Soil	9	20	0.69	100	0.016	<20	1.62	0.008	0.09	<0.1	0.05	4.5	<0.1	<0.05	5	<0.5		
L14W 0050S	Soil	5	26	0.45	98	0.042	<20	1.92	0.007	0.05	<0.1	0.04	2.5	<0.1	<0.05	8	<0.5		
L14W 0100S	Soil	6	24	0.65	100	0.024	<20	2.05	0.007	0.05	<0.1	0.03	3.6	<0.1	<0.05	7	<0.5		
L14W 0150S	Soil	5	20	0.47	103	0.027	<20	1.78	0.006	0.05	<0.1	0.04	2.3	<0.1	<0.05	7	<0.5		
L14W 0200S	Soil	6	22	0.71	95	0.020	<20	2.24	0.004	0.04	<0.1	0.02	3.1	<0.1	<0.05	7	<0.5		
L14W 0250S	Soil	5	22	0.53	86	0.023	<20	2.07	0.005	0.05	<0.1	<0.01	2.4	<0.1	<0.05	7	<0.5		
L14W 0300S	Soil	6	20	0.72	204	0.018	<20	2.24	0.004	0.05	<0.1	0.02	3.0	<0.1	<0.05	7	<0.5		
L14W 0350S	Soil	6	22	0.85	207	0.019	<20	2.77	0.005	0.05	<0.1	0.02	3.5	<0.1	<0.05	8	<0.5		
L14W 0400S	Soil	6	14	0.63	166	0.021	<20	2.36	0.003	0.05	<0.1	0.07	4.0	<0.1	0.06	9	<0.5		

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Project: Grouse Mountain
 Report Date: August 24, 2009

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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX 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
L14W 0450S	Soil			1.9	24.3	32.2	367	0.6	15.1	11.8	531	3.98	39.1	0.3	<0.5	0.7	24	0.9	0.4	0.3	79	0.45	0.026
L14W 0500S	Soil			1.3	15.5	31.0	523	0.5	15.9	13.9	2215	4.02	14.2	0.2	<0.5	0.5	20	2.1	0.4	0.3	85	0.26	0.034
L14W 0550S	Soil			1.2	31.2	34.5	576	0.3	14.6	17.2	2100	4.24	18.8	0.1	<0.5	0.5	19	6.3	0.7	0.4	77	0.34	0.029
L14W 0600S	Soil			1.3	23.9	27.0	441	0.6	16.9	13.5	1099	4.18	16.6	0.2	<0.5	0.8	15	1.5	0.4	0.4	79	0.18	0.042
L14W 0650S	Soil			1.6	52.0	38.6	516	0.7	19.7	15.3	1281	4.69	19.3	0.4	<0.5	0.7	38	3.0	0.6	0.3	81	0.73	0.045
L14W 0700S	Soil			1.1	24.0	21.8	235	0.9	16.2	13.3	916	3.92	15.0	0.2	<0.5	0.5	16	1.0	0.6	0.2	78	0.33	0.028
L14W 0750S	Soil			1.0	53.5	36.2	256	0.4	27.0	16.2	806	4.69	25.7	0.5	<0.5	0.9	24	0.5	0.6	0.3	78	0.41	0.055
L14W 0800S	Soil			0.9	27.3	28.5	315	0.2	19.9	17.9	2007	4.19	21.3	0.2	<0.5	0.3	23	1.2	0.6	0.2	67	0.41	0.055
L14W 0850S	Soil			1.8	16.4	22.7	300	0.3	14.7	14.1	1193	3.91	22.8	0.2	<0.5	0.7	19	2.4	0.4	0.2	69	0.29	0.031
L14W 0900S	Soil			1.2	17.6	24.0	221	0.2	15.6	13.8	794	3.72	29.0	0.2	<0.5	0.8	22	0.9	0.6	0.1	65	0.32	0.014
L14W 0950S	Soil			1.5	119.6	54.2	382	3.7	26.6	21.3	1960	4.86	81.8	1.2	2.1	1.0	77	3.3	1.3	0.3	72	1.65	0.118
L14W 1000S	Soil			1.0	14.6	19.1	237	0.2	14.8	11.6	717	3.88	21.8	0.2	<0.5	0.5	16	0.8	0.5	0.1	77	0.20	0.032
L14W 1050S	Soil			1.7	34.6	32.5	239	0.3	14.6	14.1	1925	4.30	64.3	0.2	<0.5	0.4	18	0.9	0.6	0.3	119	0.36	0.045
L14W 1100S	Soil			3.1	52.5	77.1	304	0.8	14.4	14.7	>10000	3.79	65.4	0.5	<0.5	0.3	24	3.0	0.8	0.2	151	0.72	0.083
L14W 1150S	Soil			0.9	34.2	35.5	203	0.2	22.2	16.3	1558	4.29	33.4	0.3	<0.5	0.7	18	0.5	0.8	0.2	83	0.25	0.029
L14W 1200S	Soil			1.3	42.5	37.2	259	0.6	20.3	16.0	4409	4.66	54.0	0.6	<0.5	0.6	27	1.1	0.8	0.3	114	0.46	0.069
L14W 1250S	Soil			1.5	20.1	35.0	278	0.2	16.3	14.4	1957	4.48	31.1	0.3	<0.5	0.4	31	1.2	0.6	0.3	91	0.60	0.061
L14W 1300S	Soil			1.0	26.7	25.7	265	0.6	22.9	14.6	2174	4.17	26.6	0.3	<0.5	0.5	20	0.8	0.6	0.2	81	0.33	0.048
L14W 1350S	Soil			1.2	23.1	19.1	145	0.2	20.3	11.4	679	3.87	31.1	0.3	<0.5	0.4	19	0.4	0.7	0.2	91	0.36	0.039
L14W 1400S	Soil			1.5	44.4	45.4	340	0.3	14.3	16.8	4806	4.66	24.8	0.2	<0.5	0.3	71	4.3	0.8	0.4	88	0.54	0.116
L14W 1450S	Soil			1.0	205.6	21.1	276	1.5	17.8	9.7	3083	2.06	160.2	0.7	4.1	0.2	298	5.1	6.5	0.1	36	14.73	0.246
L14W 1500S	Soil			1.2	17.2	20.9	148	<0.1	12.4	8.2	483	3.81	18.9	0.2	<0.5	0.4	17	0.3	0.5	0.2	74	0.24	0.038
L14W 1550S	Soil			1.3	27.5	21.3	182	0.1	17.1	10.7	585	4.11	27.6	0.2	<0.5	0.4	14	0.3	0.7	0.3	71	0.21	0.038
L14W 1600S	Soil			1.2	21.8	21.7	152	0.1	17.5	13.0	846	4.10	22.4	0.2	<0.5	0.5	18	0.3	0.8	0.3	70	0.22	0.028
L14W 1650S	Soil			1.6	23.6	21.1	170	<0.1	18.7	12.8	643	4.10	22.6	0.3	0.5	0.6	13	0.4	0.7	0.4	69	0.19	0.041
L14W 1700S	Soil			2.5	25.1	24.6	179	0.1	19.2	13.4	970	4.56	26.4	0.3	<0.5	0.6	21	0.4	0.7	0.4	73	0.43	0.048
L14W 1750S	Soil			1.9	23.6	21.3	166	0.2	18.4	12.6	1489	3.92	21.4	0.2	<0.5	0.3	21	0.7	0.6	0.3	66	0.42	0.048



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CERTIFICATE OF ANALYSIS

SMI09000146.1

Method	Analyte	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
Unit		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	0.05	1	0.5	
L14W 0450S	Soil	7	22	0.49	104	0.018	<20	2.51	0.008	0.05	<0.1	0.03	3.4	<0.1	<0.05	7	<0.5
L14W 0500S	Soil	6	26	0.57	265	0.032	<20	2.19	0.006	0.05	<0.1	0.03	2.7	<0.1	<0.05	8	<0.5
L14W 0550S	Soil	6	22	0.76	99	0.035	<20	1.91	0.005	0.04	<0.1	0.01	3.2	<0.1	<0.05	7	<0.5
L14W 0600S	Soil	6	23	0.59	139	0.040	<20	2.35	0.007	0.04	<0.1	0.02	3.1	<0.1	<0.05	7	<0.5
L14W 0650S	Soil	13	24	0.48	204	0.019	<20	2.70	0.004	0.07	0.1	0.06	5.0	<0.1	<0.05	7	0.5
L14W 0700S	Soil	6	23	0.56	113	0.023	<20	1.94	0.005	0.04	<0.1	0.02	3.4	<0.1	<0.05	6	<0.5
L14W 0750S	Soil	12	30	0.82	160	0.018	<20	3.45	0.007	0.07	<0.1	0.04	6.1	<0.1	<0.05	7	0.7
L14W 0800S	Soil	8	23	0.68	165	0.025	<20	2.33	0.007	0.06	<0.1	0.02	3.2	<0.1	<0.05	7	<0.5
L14W 0850S	Soil	7	21	0.50	131	0.033	<20	2.06	0.007	0.05	<0.1	0.02	3.1	<0.1	<0.05	7	0.5
L14W 0900S	Soil	6	21	0.67	108	0.045	<20	1.86	0.009	0.04	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5
L14W 0950S	Soil	52	40	0.77	420	0.010	<20	3.36	0.012	0.12	<0.1	0.23	17.9	0.1	0.09	8	3.0
L14W 1000S	Soil	5	19	0.63	525	0.032	<20	1.82	0.005	0.05	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5
L14W 1050S	Soil	5	14	0.55	247	0.023	<20	2.12	0.004	0.08	0.1	0.03	2.8	0.3	0.05	7	0.8
L14W 1100S	Soil	10	18	0.36	1269	0.016	<20	2.01	0.004	0.05	<0.1	0.08	4.1	0.9	0.09	7	1.3
L14W 1150S	Soil	6	26	0.75	250	0.031	<20	2.05	0.005	0.06	<0.1	0.01	4.1	0.1	<0.05	6	0.6
L14W 1200S	Soil	10	27	0.51	762	0.020	<20	2.52	0.006	0.13	<0.1	0.05	5.2	0.5	<0.05	8	0.6
L14W 1250S	Soil	5	24	0.46	413	0.025	<20	2.05	0.005	0.09	<0.1	0.03	3.3	0.1	<0.05	8	<0.5
L14W 1300S	Soil	8	27	0.57	345	0.024	<20	2.27	0.008	0.08	<0.1	0.01	3.5	0.2	<0.05	7	<0.5
L14W 1350S	Soil	6	26	0.58	333	0.023	<20	2.29	0.006	0.06	<0.1	0.02	3.2	0.2	<0.05	7	0.9
L14W 1400S	Soil	8	21	0.34	1119	0.024	<20	2.02	0.006	0.08	<0.1	0.04	3.4	<0.1	0.06	7	0.6
L14W 1450S	Soil	19	18	0.32	747	0.009	<20	1.07	0.009	0.05	<0.1	0.10	6.2	0.2	0.17	4	3.5
L14W 1500S	Soil	5	21	0.45	120	0.014	<20	1.65	0.005	0.05	<0.1	0.01	2.4	<0.1	<0.05	6	<0.5
L14W 1550S	Soil	6	24	0.59	139	0.022	<20	1.82	0.005	0.06	<0.1	0.01	3.1	<0.1	<0.05	6	<0.5
L14W 1600S	Soil	6	23	0.57	159	0.026	<20	1.63	0.005	0.06	<0.1	<0.01	2.8	<0.1	<0.05	6	<0.5
L14W 1650S	Soil	5	24	0.62	151	0.017	<20	2.03	0.006	0.07	<0.1	0.01	3.2	<0.1	<0.05	6	<0.5
L14W 1700S	Soil	6	26	0.62	201	0.022	<20	2.27	0.007	0.08	<0.1	0.01	3.5	<0.1	<0.05	6	<0.5
L14W 1750S	Soil	7	23	0.56	208	0.027	<20	1.78	0.006	0.07	0.1	0.02	2.8	<0.1	<0.05	6	<0.5



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Project: Grouse Mountain
 Report Date: August 24, 2009

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QUALITY CONTROL REPORT

SMI09000146.1

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																					
LO 1000S	Soil	1.5	15.5	43.8	294	0.2	11.3	7.1	287	4.47	26.3	0.2	<0.5	0.5	7	0.6	0.6	0.1	97	0.07	0.041
REP LO 1000S	QC	1.6	15.2	44.4	285	0.2	11.4	7.0	288	4.31	26.1	0.2	<0.5	0.5	7	0.6	0.5	0.1	94	0.07	0.041
L2W 1450S	Soil	0.6	9.2	13.9	91	0.2	9.3	4.6	213	2.19	7.9	0.2	<0.5	<0.1	12	<0.1	0.2	0.1	55	0.10	0.039
REP L2W 1450S	QC	0.7	7.4	13.4	93	0.2	9.1	4.7	206	2.14	7.1	0.2	3.5	<0.1	12	0.2	0.3	0.1	52	0.10	0.039
L2W 0550N	Soil	0.7	18.1	17.8	210	0.2	10.7	9.0	700	3.61	13.9	0.2	1.1	0.3	13	0.5	0.4	0.3	60	0.18	0.082
REP L2W 0550N	QC	0.9	17.9	18.0	219	0.2	11.2	9.1	714	3.66	14.0	0.3	<0.5	0.3	14	0.5	0.3	0.3	62	0.18	0.084
L6W 0100S	Soil	2.0	34.5	45.2	595	0.6	11.7	9.4	665	4.51	28.9	0.2	<0.5	0.4	24	1.4	0.7	0.9	73	0.23	0.067
REP L6W 0100S	QC	1.9	35.1	46.5	608	0.6	11.9	9.0	656	4.42	29.4	0.2	2.7	0.5	24	1.3	0.6	0.8	73	0.24	0.068
L8W 0150S	Soil	1.2	14.2	17.6	339	0.2	10.2	5.8	304	3.20	11.6	0.2	<0.5	0.6	16	1.2	0.4	0.2	68	0.13	0.042
REP L8W 0150S	QC	1.2	13.2	18.5	330	0.2	10.5	6.1	304	3.27	11.7	0.3	1.5	0.6	16	1.0	0.5	0.2	67	0.14	0.045
L8W 1300S	Soil	3.0	13.5	13.6	153	0.2	8.6	6.9	278	3.65	12.6	0.1	<0.5	0.4	16	0.7	0.4	0.3	86	0.24	0.025
REP L8W 1300S	QC	3.1	13.9	13.7	149	0.2	8.3	7.1	278	3.78	12.7	0.1	<0.5	0.5	17	0.7	0.4	0.3	85	0.25	0.026
L10W 0950S	Soil	1.1	31.5	21.1	196	<0.1	21.3	13.5	576	4.16	21.1	0.2	<0.5	0.5	19	0.4	0.4	0.1	91	0.26	0.032
REP L10W 0950S	QC	1.1	31.5	20.8	195	0.1	20.2	13.2	567	4.15	21.2	0.2	<0.5	0.5	20	0.4	0.4	0.1	89	0.26	0.032
L12W 0850S	Soil	1.0	21.7	14.5	154	0.1	15.5	9.5	391	3.90	14.1	0.3	0.8	0.6	15	0.2	0.5	0.2	79	0.16	0.029
REP L12W 0850S	QC	1.0	19.5	13.8	157	0.1	15.2	9.9	374	3.77	13.8	0.2	0.9	0.5	15	0.3	0.4	0.2	76	0.16	0.028
L14W 0450N	Soil	1.6	26.2	33.7	408	1.0	10.3	7.7	849	3.36	18.2	0.2	<0.5	0.3	15	2.4	0.4	0.4	64	0.22	0.053
REP L14W 0450N	QC	1.6	26.1	32.8	433	1.0	10.4	7.8	848	3.35	18.3	0.2	<0.5	0.3	15	2.3	0.4	0.4	63	0.22	0.050
L14W 0800S	Soil	0.9	27.3	28.5	315	0.2	19.9	17.9	2007	4.19	21.3	0.2	<0.5	0.3	23	1.2	0.6	0.2	67	0.41	0.055
REP L14W 0800S	QC	1.0	26.8	29.6	321	0.2	18.4	17.9	1995	4.17	21.6	0.2	<0.5	0.3	24	1.1	0.6	0.2	66	0.40	0.061
Reference Materials																					
STD DS7	Standard	21.0	113.3	71.5	421	0.9	58.0	8.8	630	2.42	51.5	4.8	88.9	4.1	71	5.9	5.1	4.8	82	0.91	0.079
STD DS7	Standard	20.7	118.5	68.7	405	0.9	57.1	9.0	628	2.37	53.1	5.2	60.4	4.2	72	6.4	5.4	4.5	85	0.88	0.078
STD DS7	Standard	20.6	113.0	67.3	389	0.8	56.3	9.4	624	2.37	48.6	4.8	118.2	4.0	69	6.0	4.9	4.3	84	0.87	0.076
STD DS7	Standard	21.7	115.7	70.1	404	0.7	58.5	9.8	637	2.47	48.7	4.9	59.2	4.5	74	6.3	5.5	4.5	86	0.97	0.072
STD DS7	Standard	20.5	118.8	69.8	420	0.9	61.0	10.3	673	2.56	53.1	5.0	48.8	4.7	76	6.4	5.3	4.6	90	0.97	0.077
STD DS7	Standard	20.6	103.9	63.5	400	0.8	54.5	9.2	610	2.42	46.7	4.4	54.9	3.7	71	6.0	4.8	4.2	81	0.86	0.076
STD DS7	Standard	20.7	119.1	64.3	406	0.8	57.6	9.9	643	2.49	49.4	4.7	62.4	3.4	65	6.1	4.4	4.2	90	0.94	0.074

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.



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Project: Grouse Mountain
 Report Date: August 24, 2009

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QUALITY CONTROL REPORT

SMI09000146.1

Method	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	
Unit	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	
Pulp Duplicates																	
LO 1000S	Soil	4	25	0.48	75	0.021	<20	2.19	0.004	0.02	<0.1	0.03	3.5	<0.1	<0.05	7	<0.5
REP LO 1000S	QC	4	24	0.48	72	0.020	<20	2.13	0.005	0.02	<0.1	0.03	3.4	<0.1	<0.05	7	<0.5
L2W 1450S	Soil	4	15	0.43	70	0.019	<20	1.47	0.007	0.03	0.1	0.02	1.0	<0.1	<0.05	6	<0.5
REP L2W 1450S	QC	4	15	0.43	66	0.018	<20	1.48	0.006	0.03	0.1	0.04	1.1	<0.1	<0.05	6	<0.5
L2W 0550N	Soil	5	16	0.63	140	0.012	<20	1.74	0.004	0.05	0.1	0.02	2.5	<0.1	<0.05	5	<0.5
REP L2W 0550N	QC	5	17	0.64	144	0.012	<20	1.77	0.005	0.05	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5
L6W 0100S	Soil	5	19	0.57	134	0.014	<20	1.86	0.006	0.04	<0.1	0.02	3.0	<0.1	<0.05	7	<0.5
REP L6W 0100S	QC	5	18	0.60	136	0.013	<20	1.89	0.007	0.04	0.1	0.03	3.0	<0.1	<0.05	7	<0.5
L8W 0150S	Soil	6	17	0.38	99	0.022	<20	1.61	0.006	0.04	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5
REP L8W 0150S	QC	6	18	0.39	101	0.022	<20	1.58	0.006	0.04	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5
L8W 1300S	Soil	5	17	0.30	58	0.019	<20	1.31	0.005	0.03	0.1	0.02	2.1	<0.1	<0.05	7	<0.5
REP L8W 1300S	QC	5	17	0.30	58	0.019	<20	1.32	0.006	0.03	<0.1	0.01	2.2	<0.1	<0.05	7	<0.5
L10W 0950S	Soil	7	30	0.73	113	0.027	<20	2.22	0.005	0.05	<0.1	0.03	4.4	<0.1	<0.05	7	<0.5
REP L10W 0950S	QC	7	29	0.73	112	0.028	<20	2.22	0.006	0.05	<0.1	0.02	4.5	<0.1	<0.05	7	<0.5
L12W 0850S	Soil	5	24	0.61	91	0.032	<20	1.76	0.008	0.04	<0.1	0.02	3.2	<0.1	<0.05	7	<0.5
REP L12W 0850S	QC	5	22	0.59	85	0.034	<20	1.73	0.005	0.04	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5
L14W 0450N	Soil	7	17	0.35	117	0.012	<20	1.42	0.007	0.05	<0.1	0.03	2.4	<0.1	<0.05	5	<0.5
REP L14W 0450N	QC	7	18	0.32	116	0.013	<20	1.41	0.007	0.06	<0.1	0.03	2.5	<0.1	<0.05	5	<0.5
L14W 0800S	Soil	8	23	0.68	165	0.025	<20	2.33	0.007	0.06	<0.1	0.02	3.2	<0.1	<0.05	7	<0.5
REP L14W 0800S	QC	8	22	0.69	170	0.025	<20	2.51	0.007	0.06	<0.1	0.02	3.1	<0.1	<0.05	7	<0.5
Reference Materials																	
STD DS7	Standard	11	191	1.03	411	0.113	35	0.96	0.097	0.47	4.0	0.19	2.4	4.3	0.19	5	4.3
STD DS7	Standard	11	200	1.05	424	0.120	36	1.01	0.096	0.47	3.4	0.19	2.4	4.3	0.19	5	3.4
STD DS7	Standard	10	195	1.02	402	0.116	26	0.96	0.089	0.45	3.5	0.20	2.3	4.0	0.22	5	3.3
STD DS7	Standard	13	209	1.03	412	0.127	40	1.07	0.105	0.45	3.4	0.18	2.6	4.1	0.20	4	4.2
STD DS7	Standard	13	221	1.09	459	0.133	33	1.09	0.104	0.51	3.9	0.18	2.5	4.3	0.21	5	3.5
STD DS7	Standard	10	204	0.96	406	0.102	21	0.98	0.101	0.46	3.4	0.20	1.9	4.0	0.21	5	3.3
STD DS7	Standard	11	212	1.05	422	0.115	27	1.02	0.097	0.48	3.3	0.18	2.6	4.4	0.21	5	3.3



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Project: Grouse Mountain
 Report Date: August 24, 2009

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QUALITY CONTROL REPORT

SMI09000146.1

		1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX U ppm 0.1	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01	1DX P % 0.001
STD DS7	Standard	19.4	102.0	62.4	390	0.8	56.3	9.2	591	2.35	50.8	4.1	53.5	3.7	65	6.3	4.7	4.5	80	0.83	0.077
STD DS7	Standard	19.8	108.2	62.0	409	0.8	57.6	9.8	636	2.41	52.4	4.4	61.4	3.2	64	6.4	4.4	4.1	87	0.93	0.079
STD DS7	Standard	21.0	105.1	63.3	384	0.8	60.1	10.0	638	2.56	50.0	4.3	51.7	4.1	77	6.3	5.4	4.3	91	0.94	0.079
STD OREAS45PA	Standard	1.1	584.3	17.2	118	0.3	272.3	102.1	1028	14.90	4.2	1.1	39.9	5.8	13	<0.1	0.3	0.2	198	0.24	0.032
STD OREAS45PA	Standard	1.0	573.5	17.2	117	0.3	267.3	106.0	1044	15.43	4.8	1.1	42.2	5.6	12	<0.1	0.2	0.2	203	0.23	0.030
STD OREAS45PA	Standard	1.0	603.8	18.3	119	0.2	284.5	108.7	1077	16.27	4.7	1.2	43.2	5.9	13	<0.1	0.1	0.2	206	0.24	0.032
STD OREAS45PA	Standard	1.1	618.3	17.4	125	0.3	288.2	108.1	1066	16.36	4.7	1.0	43.1	6.0	13	0.1	0.3	0.2	212	0.23	0.031
STD OREAS45PA	Standard	1.1	606.6	18.1	121	0.2	271.5	109.1	1080	16.15	4.8	1.1	41.7	5.8	12	<0.1	0.2	0.2	213	0.22	0.033
STD OREAS45PA	Standard	1.1	566.7	17.5	113	0.4	265.0	104.1	1115	15.76	5.5	1.0	53.0	5.3	13	<0.1	0.2	0.2	221	0.22	0.034
STD OREAS45PA	Standard	0.9	693.7	16.5	110	0.2	288.9	107.7	1032	16.16	4.2	1.0	46.5	5.3	12	0.1	0.1	0.2	211	0.23	0.032
STD OREAS45PA	Standard	1.0	572.1	16.0	110	0.3	267.0	109.5	1103	16.30	4.3	0.9	43.1	5.1	13	<0.1	0.2	0.1	233	0.23	0.033
STD OREAS45PA	Standard	0.8	613.7	15.6	112	0.2	267.5	103.5	1020	15.80	4.3	1.0	42.8	5.0	12	0.1	0.1	0.2	198	0.23	0.032
STD OREAS45PA	Standard	1.1	577.8	15.4	111	0.3	293.3	108.8	1047	16.85	4.1	1.0	44.0	5.3	13	0.1	0.2	0.2	236	0.22	0.033
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	646	19	122	0.3	281	104	1085	16.559	4.2	1.2	49	6.5	14	0.09	0.38	0.18	209	0.222	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
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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Project: Grouse Mountain
 Report Date: August 24, 2009

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

SMI09000146.1

		1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Sc ppm	1DX Ti ppm	1DX S %	1DX Ga ppm	1DX Se 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
STD DS7	Standard	10	199	1.04	429	0.099	34	0.88	0.084	0.44	3.1	0.19	1.8	4.0	0.20	5	3.7
STD DS7	Standard	11	207	1.04	431	0.107	35	1.03	0.098	0.47	3.5	0.17	2.3	4.2	0.26	4	3.9
STD DS7	Standard	12	229	1.08	434	0.116	27	1.05	0.112	0.48	3.3	0.20	2.3	4.0	0.20	5	3.5
STD OREAS45PA	Standard	14	709	0.10	165	0.118	<20	2.85	0.011	0.07	<0.1	0.02	38.3	<0.1	<0.05	16	0.7
STD OREAS45PA	Standard	14	735	0.10	157	0.114	<20	2.82	0.011	0.06	<0.1	0.02	38.1	<0.1	<0.05	15	<0.5
STD OREAS45PA	Standard	14	786	0.10	173	0.125	<20	3.08	0.010	0.07	<0.1	0.02	40.7	<0.1	<0.05	17	1.2
STD OREAS45PA	Standard	14	783	0.11	163	0.127	<20	3.32	0.012	0.07	<0.1	0.02	40.1	<0.1	<0.05	17	0.6
STD OREAS45PA	Standard	14	773	0.10	166	0.120	<20	2.96	0.011	0.07	<0.1	0.02	39.8	<0.1	<0.05	16	<0.5
STD OREAS45PA	Standard	14	793	0.09	199	0.107	<20	2.80	0.011	0.08	<0.1	0.03	35.7	<0.1	<0.05	15	0.8
STD OREAS45PA	Standard	15	908	0.08	176	0.117	<20	2.99	0.008	0.07	<0.1	0.01	42.7	<0.1	<0.05	16	<0.5
STD OREAS45PA	Standard	14	883	0.09	183	0.113	<20	2.75	0.012	0.07	<0.1	0.03	37.4	<0.1	<0.05	16	0.6
STD OREAS45PA	Standard	14	865	0.08	178	0.107	<20	2.84	0.008	0.07	<0.1	0.02	40.2	<0.1	<0.05	15	1.2
STD OREAS45PA	Standard	14	885	0.10	176	0.128	<20	3.13	0.010	0.07	<0.1	0.02	38.4	<0.1	<0.05	17	0.8
STD DS7 Expected		12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
STD OREAS45PA Expected		13.7	873	0.1125	190	0.13		3.23	0.011	0.0665	1.1	0.03	43	0.07	0.03	16.8	0.86
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
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
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
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
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
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
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
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
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
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



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Submitted By: Rick Kemp
 Receiving Lab: Canada-Smithers
 Received: August 17, 2009
 Report Date: August 26, 2009
 Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI09000145.1

CLIENT JOB INFORMATION

Project: Grouse Mountain
 Shipment ID: 2009_3_
 P.O. Number
 Number of Samples: 6

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	6	Crush, split and pulverize rock to 200 mesh			VAN
1E	6	4 Acid digestion ICP-ES analysis	0.25	Completed	VAN

SAMPLE DISPOSAL

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

ADDITIONAL COMMENTS

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

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

CC: Jim Miller-Tait
 Eugene Beukman
 Erik Andersen



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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Project: Grouse Mountain
 Report Date: August 26, 2009

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

SMI09000145.1

Method	WGHT	1E	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	
538801	Rock	0.92	6	70	25	129	1.8	<2	3	>10000	4.38	143	<20	<4	12	831	0.6	53	6	25	21.99
538802	Rock	0.96	<2	183	30	103	<0.5	55	25	1455	6.01	<5	<20	<4	2	465	10.0	<5	<5	273	11.68
538803	Rock	0.85	<2	34	<5	133	<0.5	6	10	1021	5.28	6	<20	<4	<2	353	<0.4	<5	<5	107	1.27
538804	Rock	0.85	<2	20	<5	103	<0.5	5	8	978	4.76	6	<20	<4	<2	357	<0.4	<5	<5	121	0.57
538805	Rock	0.46	<2	9	<5	39	<0.5	38	17	848	5.87	<5	<20	<4	2	402	0.5	<5	<5	145	7.97
538806	Rock	0.56	<2	22	<5	111	<0.5	5	8	835	4.81	8	<20	<4	2	201	<0.4	<5	<5	78	0.50



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Project: Grouse Mountain
Report Date: August 26, 2009

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

SMI09000145.1

Method	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	S	
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	
538801	Rock	0.025	12	<2	0.37	34	0.12	1.07	<0.01	0.21	<4	9	<2	30	3	<1	6	2.3
538802	Rock	0.036	2	110	2.15	20	0.32	8.43	0.28	0.02	<4	14	<2	9	<2	<1	27	<0.1
538803	Rock	0.064	10	19	1.73	353	0.50	7.25	2.88	0.65	<4	13	<2	14	4	<1	20	0.6
538804	Rock	0.054	9	16	1.62	416	0.51	7.49	3.85	0.62	<4	42	<2	19	4	<1	20	0.3
538805	Rock	0.029	<2	83	1.62	6	0.31	6.80	0.01	0.01	<4	15	<2	8	<2	<1	25	<0.1
538806	Rock	0.050	10	15	1.65	474	0.45	7.34	2.24	1.55	<4	35	<2	10	4	1	18	0.4



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Project: Grouse Mountain

Report Date: August 26, 2009

Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

SMI09000145.1

Method	WGHT	1E	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
Reference Materials																				
STD OREAS24P	Standard	<2	48	<5	123	<0.5	141	42	1142	7.56	<5	<20	<4	2	393	0.7	<5	<5	156	5.77
STD OREAS45P	Standard	3	741	19	153	0.8	374	114	1299	18.54	<5	<20	<4	11	33	<0.4	<5	<5	270	0.29
STD OREAS24P	Expected	1.5	52	2.9	114	0.06	141	44	1100	7.97	2	0.75		2.85	403	0.15	0.14		183	6.07
STD OREAS45P	Expected	1.9	749	22	141	0.32	385	120	1270	19.22	13.4	2.4	0.055	9.8	32.6	0.2	0.92	0.21	267	0.3
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
Prep Wash																				
G1	Prep Blank	<2	37	15	54	<0.5	4	4	748	2.33	<5	<20	<4	7	725	<0.4	<5	<5	52	2.47
G1	Prep Blank	<2	44	14	57	<0.5	4	4	794	2.45	<5	<20	<4	9	735	<0.4	<5	<5	54	2.57



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Project: Grouse Mountain
 Report Date: August 26, 2009

Page: 1 of 1 Part 2

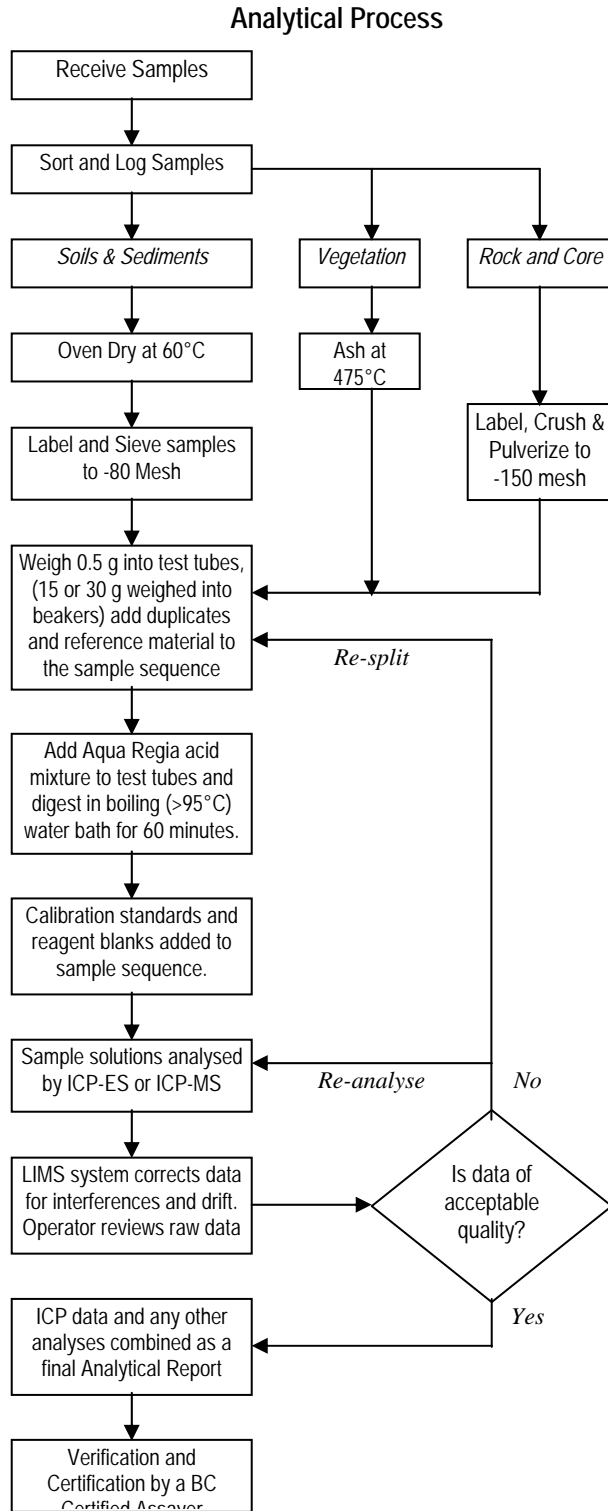
QUALITY CONTROL REPORT

SMI09000145.1

Method		1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	
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	
Reference Materials																		
STD OREAS24P	Standard	0.139	17	206	4.13	281	1.06	8.30	2.39	0.69	<4	131	<2	19	20	1	21	<0.1
STD OREAS45P	Standard	0.047	23	1079	0.19	291	1.06	6.98	0.07	0.33	<4	145	<2	12	23	1	68	<0.1
STD OREAS24P Expected		0.136	17.4	221	4.13	285	1.1	7.66	2.31	0.7	0.5	141	1.6	22.9	21		20	
STD OREAS45P Expected		0.047	24.8	1140	0.22	281	1.18	6.82	0.081	0.35	1.1	154	2.4	13	24		67	0.03
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
Prep Wash																		
G1	Prep Blank	0.091	22	11	0.68	997	0.26	7.25	2.66	2.94	<4	8	<2	14	24	3	6	<0.1
G1	Prep Blank	0.091	26	12	0.73	1031	0.27	7.63	2.73	2.90	<4	8	<2	14	24	3	6	<0.1



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



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 0.5 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 HNO₃ and de-mineralised H₂O is added to each sample to leach for one hour in a 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 Jarrel Ash AtomComp 800 or 975 ICP 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 Elan6000 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.

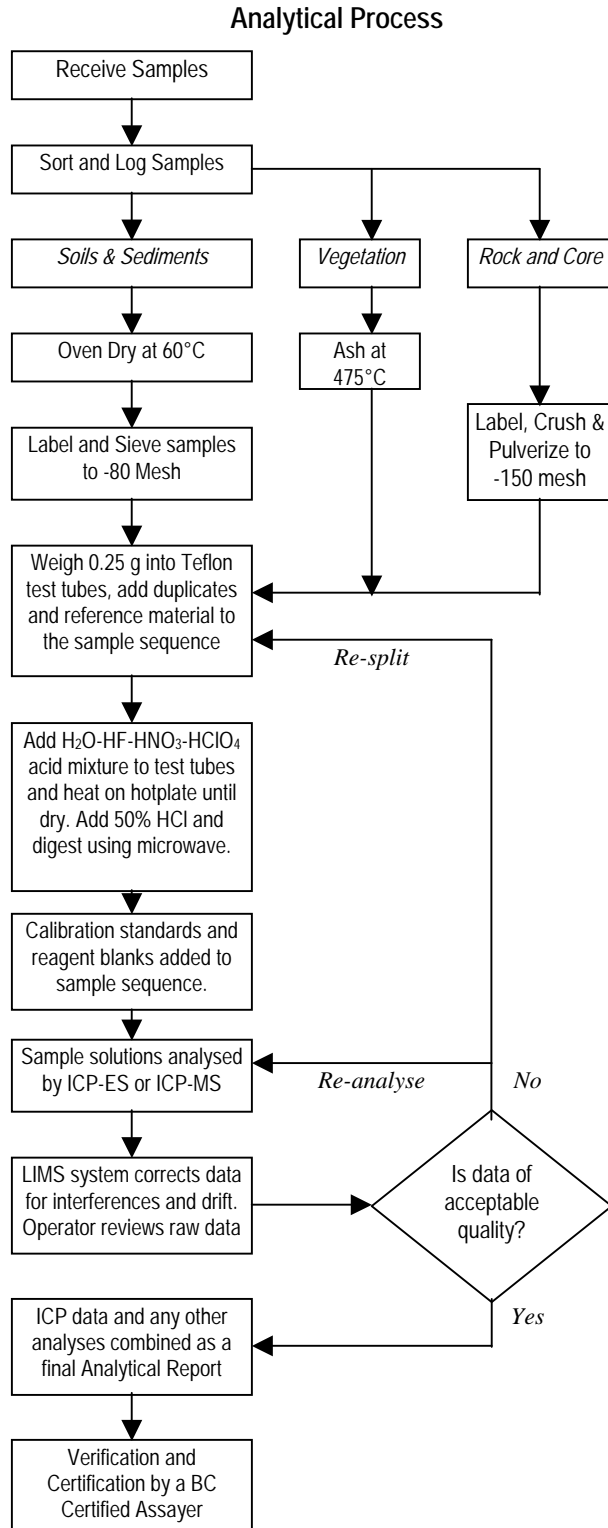
Quality Control and Data Verification

An Analytical Batch (1 page) comprises 34 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 DS5 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, Dean Toye and Jacky Wang.



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



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 H₂O-HF-HClO₄-HNO₃) 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 microwave. 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.

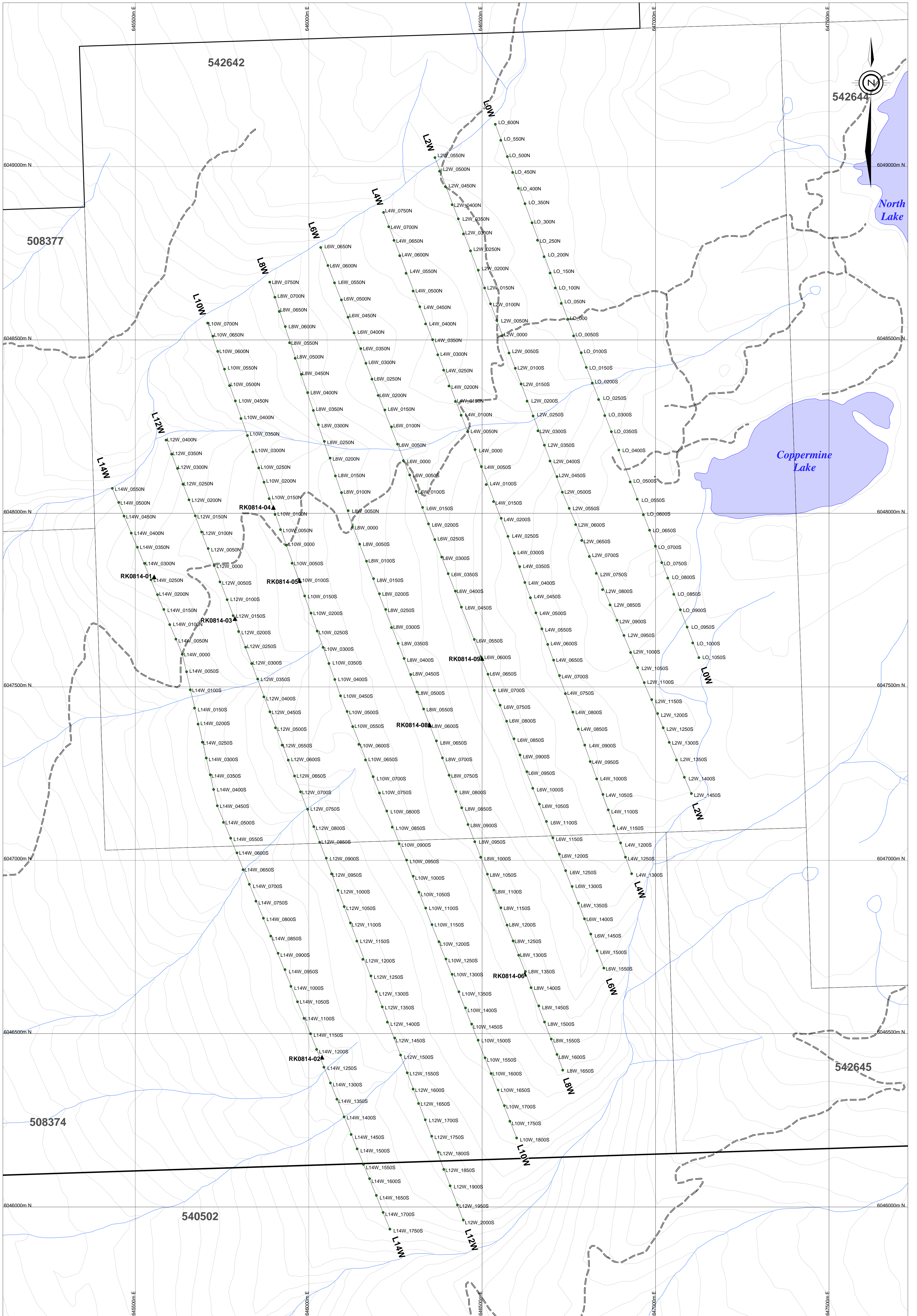
Quality Control and Data Verification

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.

SECTION F: ILLUSTRATIONS

	Plan Number	Title	Scale
	GM-09-1 (after p. 3)	Location Map	1:8,000,000
	GM-09-2 (after p. 3)	Claim Map	1:50,000
	GM-09-3 (after p. 6)	Property Geology	1:35,000
	GM-09-4 (after p. 7)	2009 Geochem Survey Location Map	1:35,000
	GM-09-5 (in pocket)	2009 Soil and Rock Sample Location Map	1:5 000
	GM-09-6 (in pocket)	2009 Soil Grid Geology	1:5 000
	GM-09-7 (in pocket)	2009 Soil and Rock Geochemistry – Cu (ppm)	1:5 000
	GM-09-8 (in pocket)	2009 Soil and Rock Geochemistry – Mo (ppm)	1:5 000
	GM-09-9 (in pocket)	2009 Soil and Rock Geochemistry – Ag (ppm)	1:5 000
	GM-09-10 (in pocket)	2009 Soil and Rock Geochemistry – Zn (ppm)	1:5 000

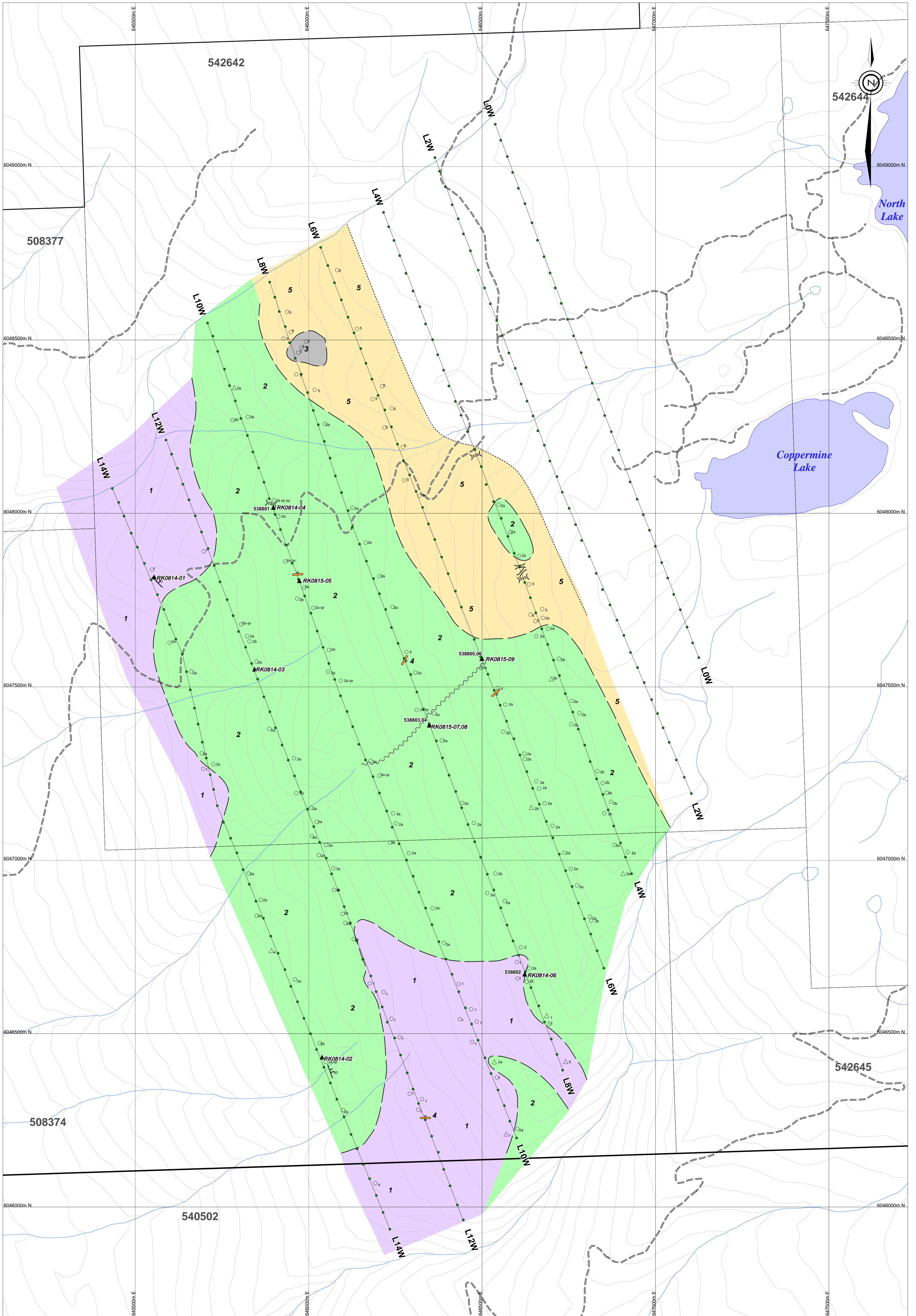


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Soil and Rock Sample Location Map

Date	Sep 23, 2009	Scale	1:5,000
Projection	UTM Zone 9 - NAD83	State/Province	BC
Author	EA	File	GM09_SoilGrid_ess

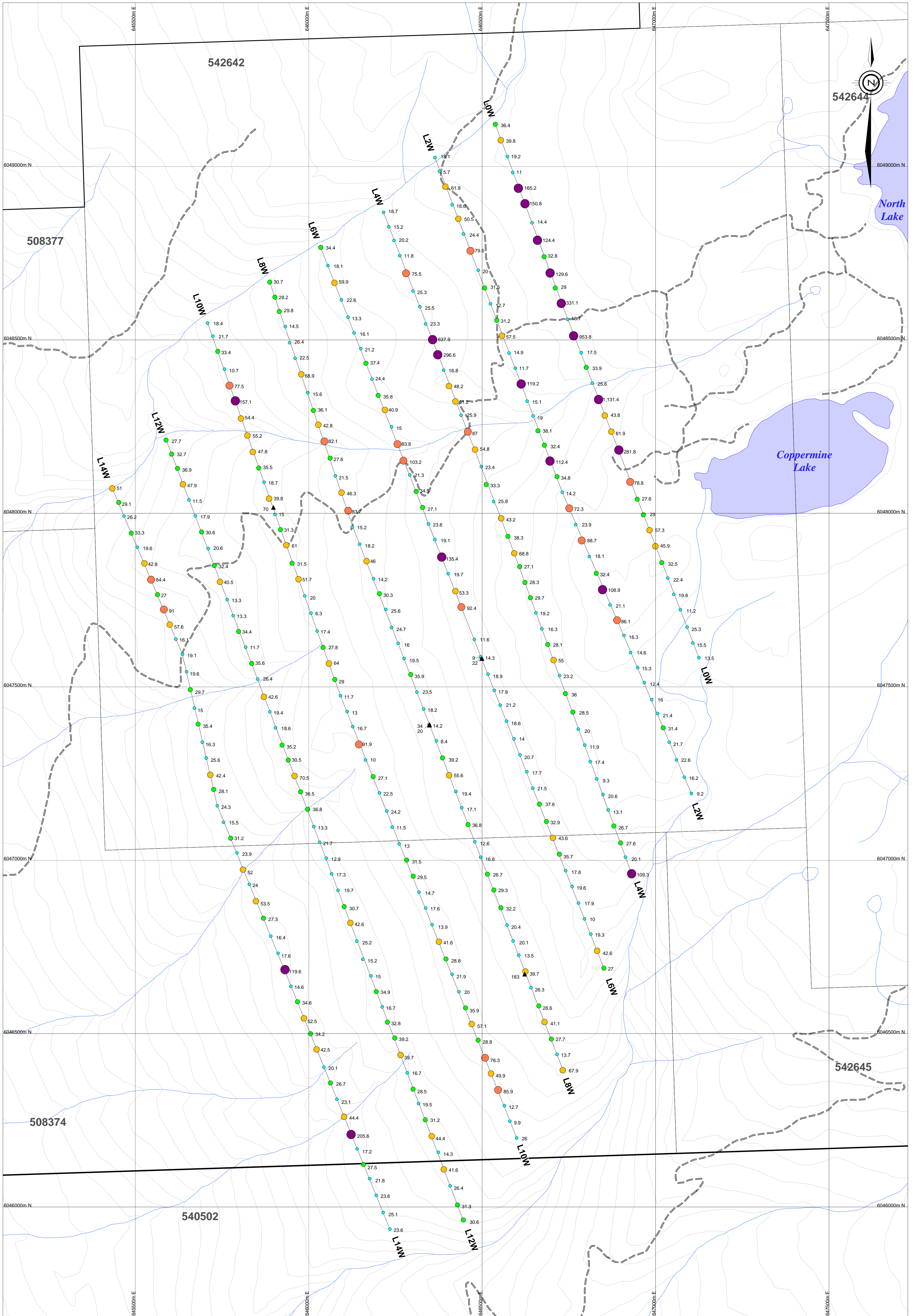
Figure **GM-09-5**



LEGEND

- | | |
|--|---|
| <ul style="list-style-type: none"> 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 --- limit of mapping ~~~~~ fault | <ul style="list-style-type: none"> ○ outcrop △ float ▲ sample number ▲ rock sample station — — — dyke with direction of dip --- hand dug trench — — — bulldozer trench |
|--|---|

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2009 Soil Grid Geology			
Date	Oct 5, 2009	Scale	1:5,000
Projection	UTM Zone 9 - NAD83	State/Province	BC
Author	EA	File	GM09_SoilGrid_ass
Figure		GM-09-6	

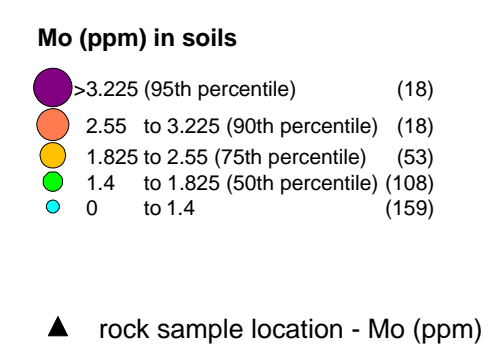
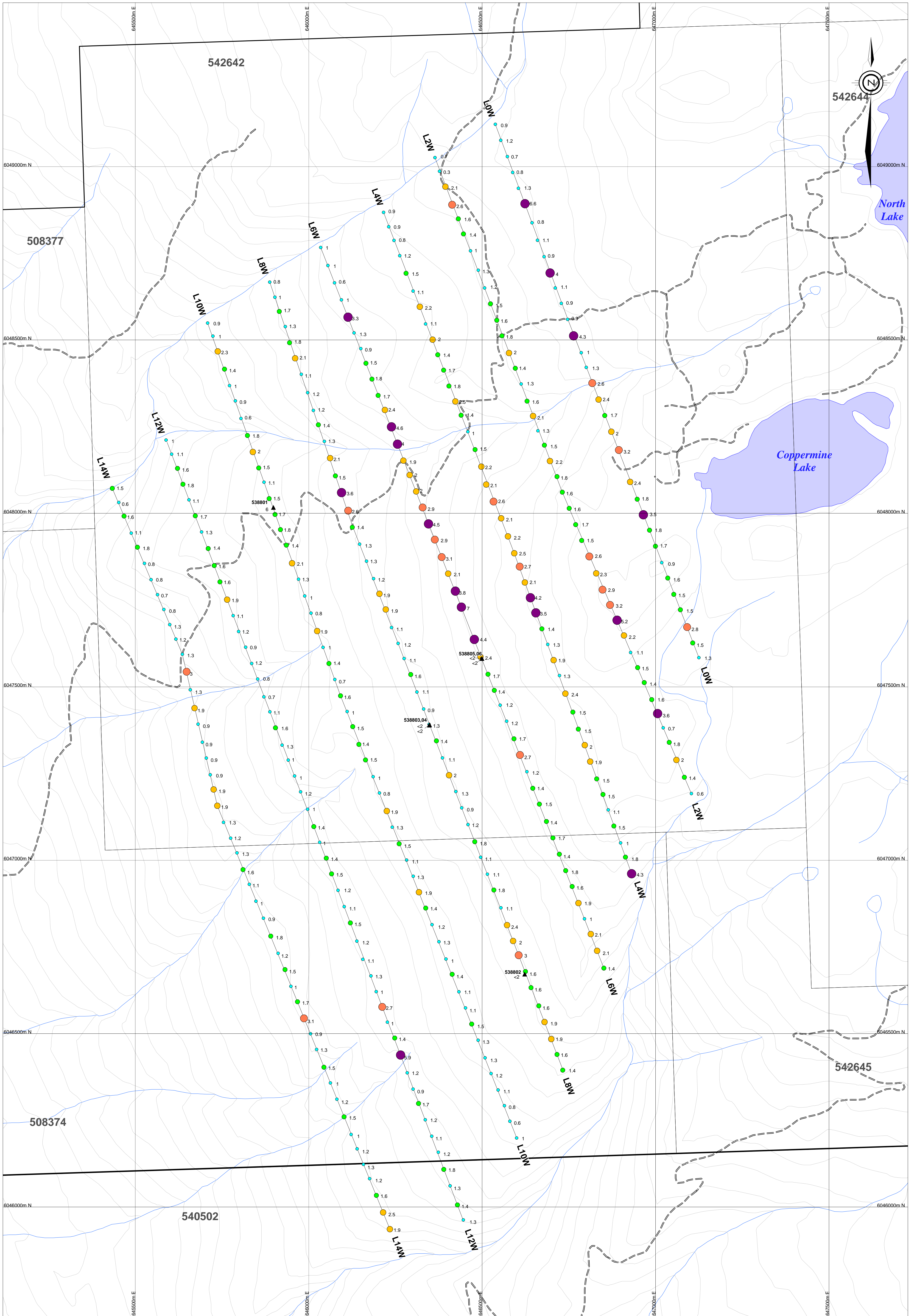


- Cu (ppm) in soils**
- -104.625 (95th percentile) (18)
 - 71.4 to 104.625 (90th percentile) (18)
 - 39.7 to 71.4 (75th percentile) (54)
 - 26.7 to 39.7 (50th percentile) (90)
 - 0 to 26.7 (176)
- ▲ rock sample location - Cu (ppm)

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Soil and Rock Geochemistry
Cu (ppm)

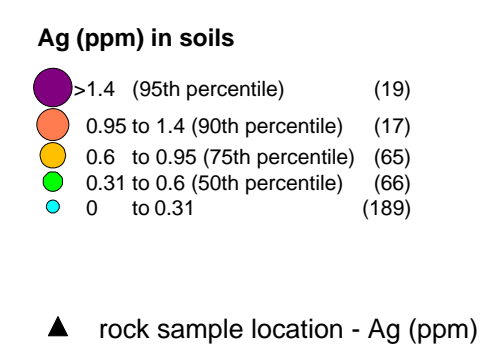
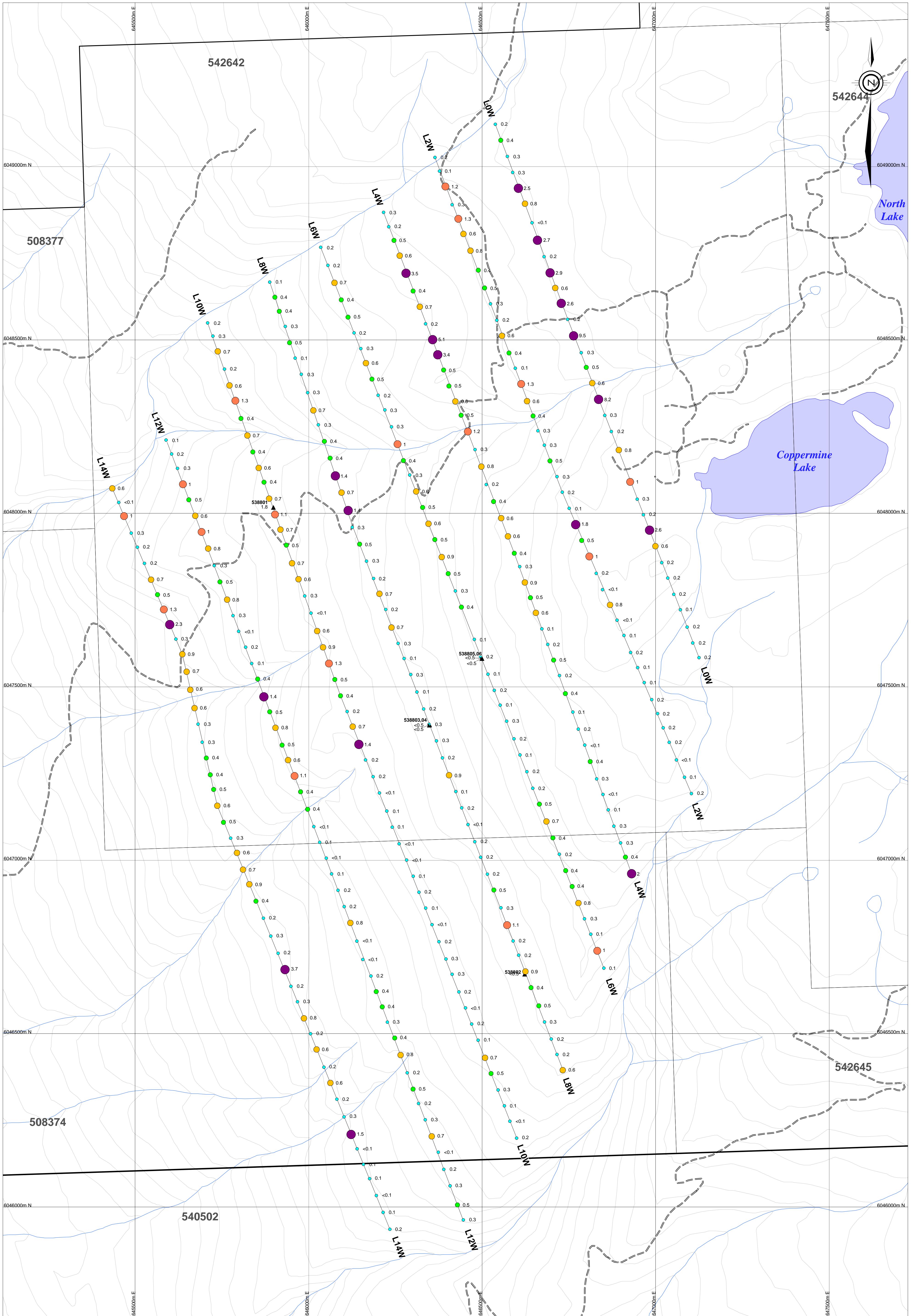
Date	Sep 23, 2009	Scale	1:5,000
Projection	UTM Zone 9 - NAD83	State/Province	BC
Author	EA	File	GM09_SoilGrid_ass

Figure
GM-09-7

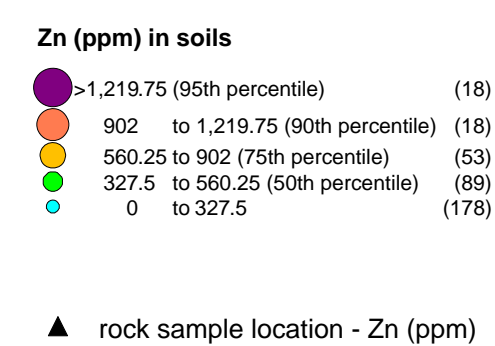
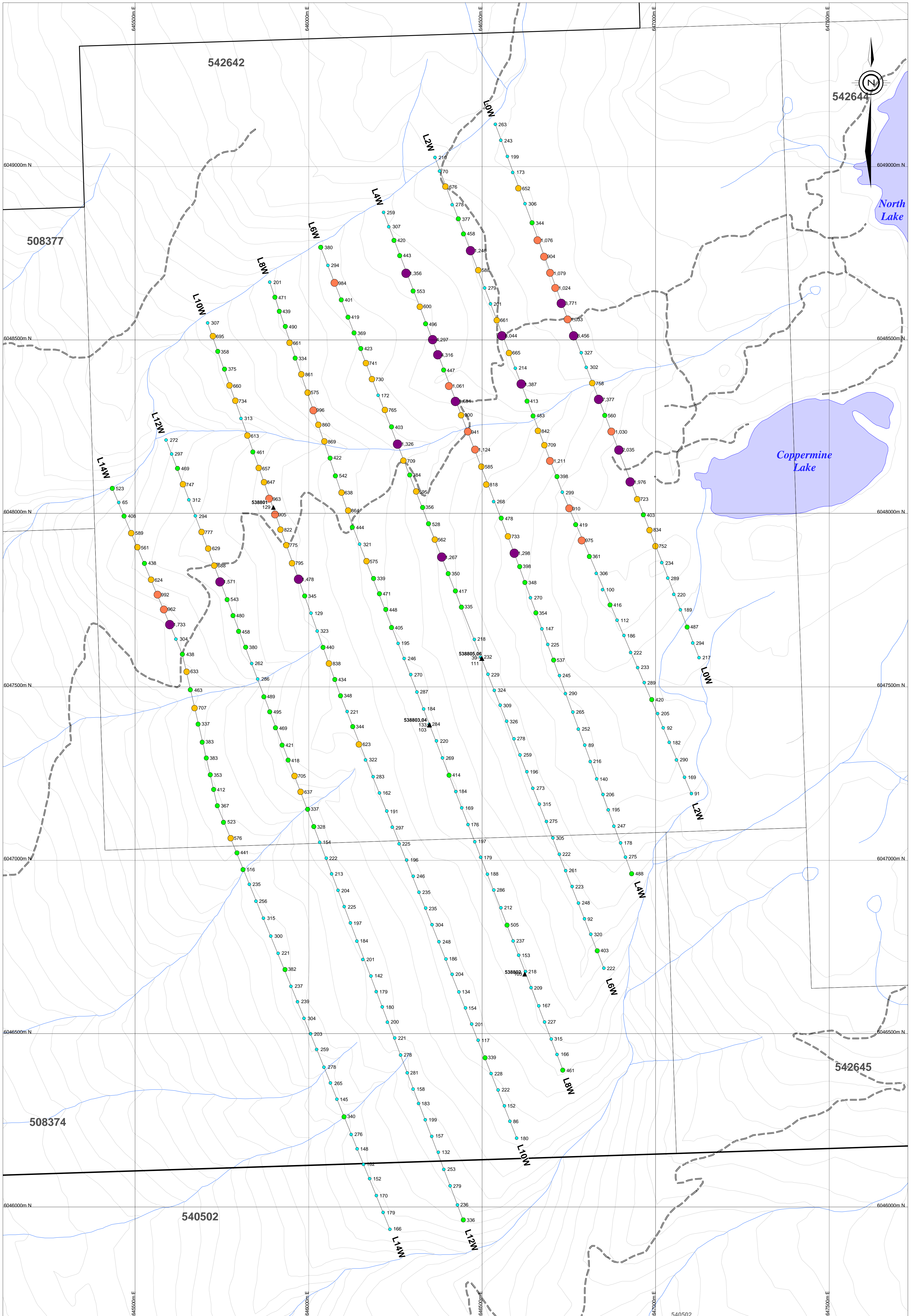


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Soil and Rock Geochemistry
Mo ppm)

Date	Sep 23, 2008	Scale	1:5,000	Figure
Projection	UTM Zone 9 - NAD83	State/Province	BC	GM-09-8
Author	EA	File	GM09_SoilGrid_ass	



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Omineca Mining Division			
Soil and Rock Geochemistry			
Ag (ppm)			
Date	Sep 23, 2009	Scale	1:5,000
Projection	UTM Zone 9 - NAD83	State/Province	BC
Author	EA	File	GM09_SoilGrid_ass
Figure			GM-09-9



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Soil and Rock Geochemistry
Zn (ppm)

Date	Sep 23, 2009	Scale	1:5,000	Figure
Projection	UTM Zone 9 - NAD83	State/Province	BC GM-09-10	
Author	EA	File	GM09_SoilGrid_ass	

