APPENDIX D ASSESSMENT REPORT TITLE PAGE & SUMMARY

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: 2011 Assessment Report on Soil Sampling, Magnetic Surveying and VLF-EM Surveying of the Chu Chua Shenul (CCS) Property, Kamloops MD, B.C.

TOTAL COST: $87,738.75

AUTHOR(S): Peter A. Christopher PhD, P.Eng.
SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-4-570
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S):

YEAR OF WORK: 2011

PROPERTY NAME: Chu Chua Shenul

CLAIM NAME(S) (on which work was done): Southpark (508587); Insure (508589); Forgot (553915); 604247 & Bar East (825122)

COMMODITIES SOUGHT: copper & gold

MINERAL INVENTORY MINFILE NUMBER(S),IF KNOWN: NA Chu Chua Deposit on 3rd patty claims.

MINING DIVISION: Kamloops
NTS / BCGS: 92P & 82M
LATITUDE: _____51_____° _____18_____' __25_____"
LONGITUDE: _____120____° ____01_____' _____00_____" (at centre of work)
UTM Zone: 10 EASTING:708000 NORTHING:568800

OWNER(S):Kenneth Ellerbeck & Gerold Locke

MAILING ADDRESS: 255 West Battle Street Kamloops, B.C. V2C 1G8 & 775 Sequoia Place Kamloops, B.C. V2C 5W3

OPERATOR(S) [who paid for the work]: Shenul Capital Inc.

MAILING ADDRESS: 3707 West 34th Avenue Vancouver, B.C. V6N2K9

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. The Chu Chua Shenul property is underlain by oceanic mafic to acidic volcanic and related sedimentary rocks of the Fennell Formation of the Slide Mountain Assemblage. The Fennell hosts the Chu Chua massive sulphide deposit with cuperiferous magnetite and pyrite paralleling the N-S stratigraphic trend. Exploration targeted airborne mag and EM anomalies and auriferous rhyolite domes.
REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:
19540A; 26752; 22039; 20670; Christopher (2010a & b, Assessment Reports)

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			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic	12.8 km	604247, Insure & Forgot	$15,000.00
Electromagnetic	16.1 km	As above	$15,000.00
Induced Polarization			
Radiometric			
GEOCHEMICAL (number of samples analysed for …)			
Soil 703@25m	ICP-MS ACME	Southpark,	Insure & Forgot $47,738.75
Silt			
Rock 30	ICP-MS FA Au ACME or Eco Tech	604247 & forgot (553915)	$5,000.00
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
PREPATORY / PHYSICAL			
Line/grid (km)		Southpark, 604247	Insure. Forgot $5,000.00
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			
		TOTAL COST	$87738.75

2011 ASSESSMENT REPORT ON SOIL SAMPLING, MAGNETIC SURVEYING AND VLF-EM SURVEYING ON THE CHU CHUA SHENUL (CCS) PROPERTY, KAMLOOPS MINING DIVISION, B.C.

CLAIMS

ORIGINAL CLAIMS: 529302, 528569, 517072, 523837, 523837, 523839, 52341, 523843, 523836, 517010, 528700, 508581, 508582, 5O8583, 508584, 508586, 508587, 508589, 508590, 530073, 530075, 530076, 530077, 533944, 528570, 526296, 526297,523838, 523844, 523835, 529890, 530072

ADENDUM CLAIMS: 795103, 795042, 795142, 795162, 795182, 824362, 825062, 825082, 825162, 825222, 825262, 604243, 604247, 604248, 604258, 553915, 825122, 825182, 825242, 887669, 887709, 889827, 889835, 889839, 890260, 890370, 894749

LOCATION

NTS MAP SHEETS: 92P & 82M
120°03'42"W longitude & 56° 22' 51"N latitude
UTM 704480E and 5696320N Nad 83, Zone 10 (also to east Zone 11)

OWNERS: 115892 & 107608
KEN ELLERBECK & GERALD LOCKE
KAMLOOPS, B.C.

OPERATOR

SHENUL CAPITAL INC. (Now UNDERGROUND ENERGY CORPORATION)
3707 WEST 34TH AVENUE
VANCOUVER, B.C. V6N 2K9

MINE MANAGER & REPORT PREPARATION

PETER A. CHRISTOPHER Phd., P.Eng.
3707 WEST 34TH AVENUE
VANCOUVER, B.C. V6N 2K9

OCTOBER 14, 2011

BC Geological Survey
Assessment Report
33044

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1.0 SUMMARY

The original Chu Chua Shenul (CCS) property consisted of 32 contiguous mineral claims with a total area of 7,810 ha (19,300 acres), in the Kamloops Mining Division and centered approximately 24km northeast of Barriere, British Columbia. The CCS property was acquired by Shenul Capital Inc. ("Shenul") from the owners Ken Ellerbeck and Gerald Locke by agreement dated March 10, 2010. The agreement gives Shenul the option to earn 100% interest in the CCS property subject to payments, expenditure requirements and a 2% NSR. The CCS project was acquired by Shenul to test two coincident Aero TEM III airborne magnetic and electromagnetic anomalies with an anomaly selected for grid geochemical and VLF-EM surveying entirely within claim 508587 and the other anomaly extending southerly off claim 508589 onto third party holdings. Through an addendum dated September 15, 2010, the CCS property was expanded southerly by adding 19 claims covering about 4529ha. The CCS property is presently a contiguous claim block consisting of 51 claims covering 12339ha. In August 2011 Shenul underwent an RTO with the name changed to Underground Energy Corporation ("Underground").

The CCS property is underlain by rocks of the Mississippian to Permian Fennelll Formation (Schiarizza and Preto, 1987). The Fennell Formation consists of a lower division consisting of complex interbedded and thrust imbricated massive basalt and clastic sedimentary rocks and the upper division, underlying most of the CCS property, consisting of pillow to massive basalt, diabase sills, argillite and chert. The Fennell Fm is intruded and locally contact metamorphosed by the Baldy Batholith. Regionally the Fennell Fm has been metamorphosed to lower greenschist facies but textures and bedding are preserved in volcanic and sedimentary units.

The claim area is believed to have potential for Cyprus type volcanic massive sulphide (VMS) like the Chu Chua deposit, Kuroko or Noranda type VMS associated with acidic volcanic layers and epithermal quartz veins hosting base and/or precious metals with a number of epithermal vein occurrence known in the southeast part of the CCS property (Raffle and Dufresne, 2010). A gold bearing acidic volcanic horizon occurs in the area of the Addendum claims and grids were constructed in the Bar Dome and North Dome areas to allow grid based geochemical sampling, magnetic surveying and VLF-EM surveying.

Shenul (now Underground) retained PAC Geological Consulting Inc. to conduct the Phase 1 exploration program recommended by Raffle and Dufresne (2010). Dr. Peter A. Christopher P. Eng. ("Christopher" or "PAC") field supervised and worked on the grid construction, VLF-EM survey, magnetic surveying and geochemical sampling. Geological observations were made during prospecting, geochemical and VLF-EM traverses (Christopher, 2010a and b). Drilling, magnetic surveying and further geochemical sampling was conducted as Part 2 of the 2010 exploration program (Christopher, 2010b). Christopher was president and exploration manager of Shenul and field supervised 2010 Part 1 (Christopher, 2010a) and Part 2 exploration and logged and sampled the 3 diamond drill holes (Christopher, 2010b).

The 2010 Part 1 ground survey work was conducted between June 8 and June 12, 2010 when a number of attempts to access the grid area failed because of late snow melt. Survey work was conducted between July 19 and July 28, 2010 and August 18 and August 25, 2010. A UTM N-S 1.4km baseline was constructed and surveyed with VLF-EM and cross-line run at 100m interval along the length of the baseline to investigate a coincident airborne magnetic and VLF-EM anomaly. The baseline was marked with tagged cedar pickets at 25m intervals and soil lines were marked at 25m or 50m intervals with tagged cedar pickets and all lines and 25m stations flagged with grid locations marked on flags.

The Part 1 geochemical sampling program consisted of 5 rock, 5 silt and 216 soil samples with all samples located using a UTM grid and UTM coordinates established with Garmin GPS instruments generally with 5m accuracy. The geochemical samples were analyzed by certified laboratory Acme Analytical Laboratories Ltd. (Acme) in Vancouver, B.C. Quality control and quality assurance procedures are conducted by Acme to insure accurate analytical results but standard, blanks and re-runs were not conducted by the writer because of the prospecting nature of the samples which were collected in an area of no known showings.

A total of about ~18 line kilometers was surveyed with VLF-EM using two stations, generally Annapolis and Seattle and a total of 5.4 line kilometers were soil sampled. The geochemical and VLF-EM data was drafted by Chong Drafting in Vancouver, B.C. with VLF-EM conductors selected using methods suggested by Geonics.

The 2010 exploration was divided with the Part 2 exploration consisting of about ~18 line kilometers of ground magnetics and three BQTK drill holes totaling 521.5m used to further evaluate the EM1 grid area with the Part 2 program starting on September 15, 2010 and finishing on October 19, 2010 with delivery of core an surface rock samples to Acme Laboratory in Vancouver for ICP MS analysis. A total of 27 mainly 3m (~10feet) samples were selected from split core to evaluate altered, faulted and sulphide (mainly pyrite) bearing sections. The magnetic results and drill hole locations were drafted by Chong Drafting in Vancouver, B.C. The diurnal variation in magnetic reading was monitored by looping to base stations established along the baseline or main access road but diurnal variation were minor and instrument reading were accepted without adjustment for diurnal variation. A 550m baseline line was started over the EM2 anomaly and 21 soil samples collected but cross lines were not attempted because early snowfalls made traverses hazardous. The soil samples gave no anomalous results for copper or gold but were collected sub-parallel to the stratigraphic trend.

In 2010, three diamond dill holes were drill from the existing roads to test the VLF-EM conductors within the EM1 airborne anomaly. The 27 core samples submitted for analysis contained no anomalous results and EM conductors were

attributed to pyritic and graphitic shear zones and/or wet, N-S trending straticraphic contacts.

1.1 2011 FIELD PROGRAM

The 2011 field program was conducted by the writer with assistance from geophysical operator and prospector and property owner Gerold Locke. The field sector of the work program was conducted from July 5th through July 29th 2011 with lodging obtained in Barriere, B.C. and either a 4x4 king cab truck or SUV used for daily access to one of four CCS grids (EM1, EM2, North Dome, & Bar Dome). A total of 703 soil sites were sampled and 690 samples analyzed using ICP-MS on 15g prepared samples. A total of `approximately 17 line kilometers of soil sampling was completed. After completion of the main 2011 field program, Locke, a co-owner, collected an additional 11 rocks samples from outcrops created by new logging roads.

VLF-EM and magnetic surveying was conducted over the EM2, North Dome and Bar Dome grids with EM2 grid surveyed over 7.2km of EM and 8.3km of magnetics and the North Dome Grid surveyed over 7.4km of EM and 4km of magnetics. The Bar Dome was surveyed with two short test EM lines totaling 0.5km and 1 short (0.5km) magnetic line.

Geological and prospecting observation were made along soil and geophysical lines but good geological plans are available from government mapping and assessment files and no new mapping was attempted.

1.2 Conclusions and Recommendations

The 2011 soil sampling, magnetic and VLF-EM produced some moderately anomalous gold values (100-357.7ppb range) in a trend of acidic igneous rocks with similar historic gold results but the anomalous soil results are mainly outside airborne EM1 and EM2 magnetic and EM anomalies. The VLF-EM survey indicate a number of weak to moderate strength conductive zones within the targeted grids that generally follow the northerly stratigraphic trend. The conductors may represent wet, sheared or fault contacts as found in the EM1 grid or graphite or sulphides. The 2011 magnetic survey results defined the airborne anomaly as two northerly trending zones in the EM2 grid. The North Dome grid is outside the airborne anomalies and no strong magnetic relief was found.

The writer recommends no further work on the EM1 magnetic anomaly or previously drilled (Christopher, 2010b) EM1 grid area. Further soil sampling is recommended around the 357.7ppb Au in soil value on the Em2 grid. The North Dome grid results are similar to historic results from previous drilling. The magnetic and VLF-EM line in the Bar Grid did not indicate any strong magnetic or conductive features associated with the previously drilling auriferous rhyolite horizon.

The writer suggest that the best approach to finding new or stronger mineralized zones is through rock sampling of new outcrops being developed by active logging operations.

2.0 INTRODUCTION

Shenul acquired an option to obtain 100% interest in the CCS from Ken Ellerbeck and Gerald Locke of Kamloops, B.C. through an agreement dated March 10, 2010. Shenul engaged Apex Geoscience Ltd. (APEX) to prepare a geological compilation leading to a NI 43-101 compliand technical report on the potential of the CCS (Raffle and Dufresne, 2010). The compilation report is available in a company profile of Shenul (now Underground) at www.sedar.com. This report described work completed by Shenul on one of the coincident airborne magnetic and electromagnetic anomalies selected by Apex for further ground surveys need to position drill holes to test the anomaly. The work described in this report was completed in July 2011. The 2010 work was completed in June through October of 2010 (Christopher, 2010a &b). On September 15, 2010, the vendors and Shenul agreed to expand the CCS property southerly, covering anomaly extensions, by adding 19 addendum claims to the agreement.

3.0 LOCATION, ACCESS, PHYSIOGRAPHY AND CLIMATE

The CCS (Figures 3.1 & 3.2) is located 18 kilometers (km) northeast of Barriere, B.C. and centered on the Chu Chua deposit at 120° 03’ 42”W longitude and 56° 22’ 51”N latitude (704480E and 5696320N Nad 83, Zone 10) . From Barriere, the nearest center with supplies and services, access is along the paved Barriere Lakes Road to the North Barriere Lake and Birk Creek forest service road (BCFSR). The BCFSR heads westerly at KM 8 from the North Barriere Lake road and at ~KM 17.5, the Newhykulston Creek FSR (NCFSR) which is sign posted FSR RD 3300 (KM 10.5) provides access to the EM1 grid area. The EM1 exploration grid uses UTM coordinates with the baseline extending south from 707000E-5690000N to 707000E-5688600N (1.4Km). An EM2 exploration grid was started with the N-S baseline extending along UTM line 708000E from 5688000N to 5677450N but no cross-lines constructed because early snow made traverses difficult. Pertinent claim data is presented in Table 3.1a and 3.1b with the CCS location shown on Figures 3.1 and 3.2. Access to the claims added to the southern part of the property is best off the Leone Lake FSR and should improve once planned logging is completed.

Access to the Bar Grid area is via a network of new or renewed logging roads that extend approximately 19km to the headwater area of Sprague Creek. The Bar Grid is at approximately Km 17.5 on the extension of the Leonie Lake Forest Service Road. New outcrops are being exposed for the first time in the area of auriferous acid igneous rocks on the CCS property and close prospecting, and sampling of new roads might lead to new discoveries.

Figure 3.1. Location Map for Chu Chua Shenul ("CCS") Property (from Raffle and Dufresne, 2010).

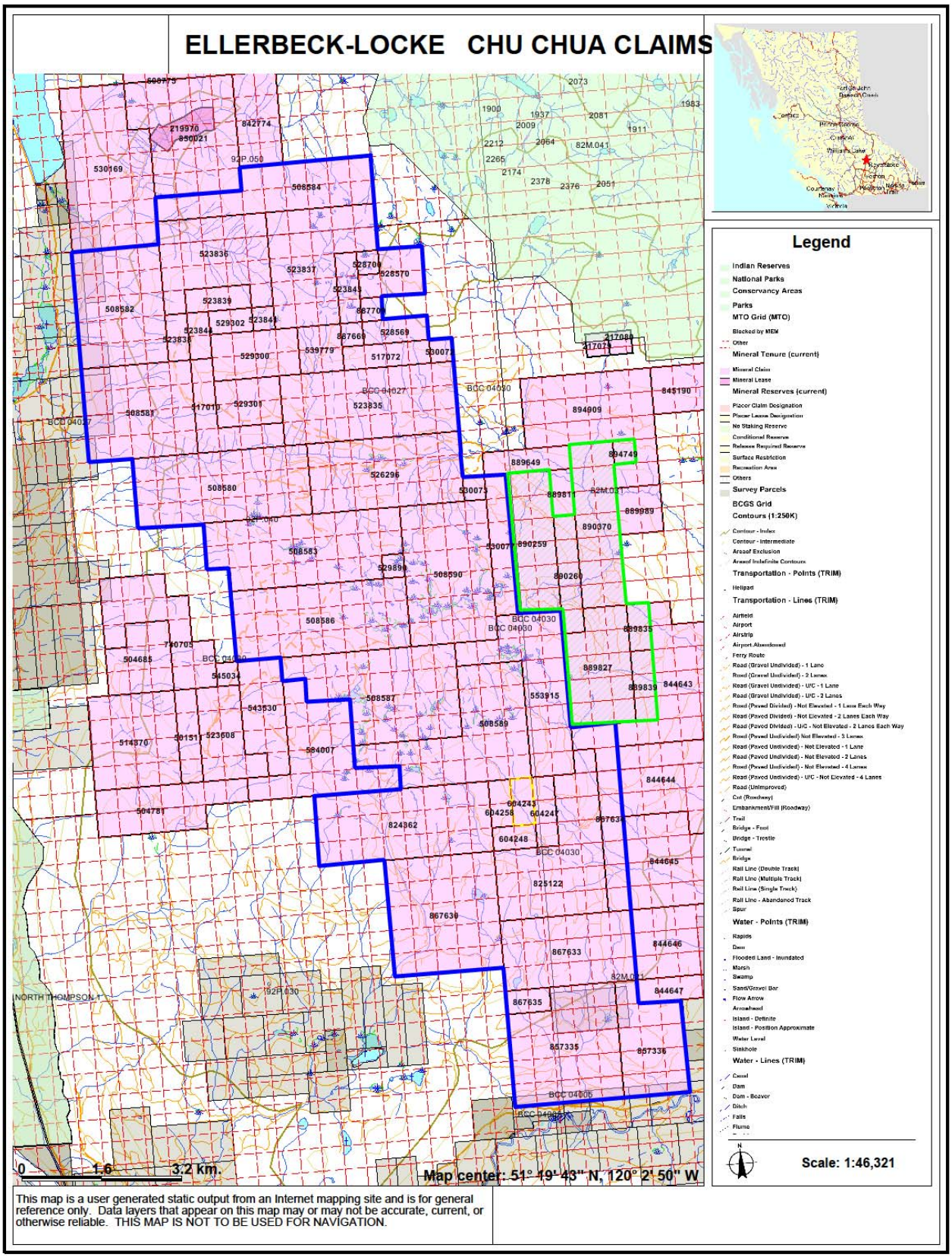

Figure 3.2. Claim map for CCS Property from Government website.

Table 3.1 Pertinent claim data CCS Property.

							GOOD TO DATE		
604243	SC	107608 (50%	Mineral	Claim	092P	2009/may/10	2015/jul/15	GOOD	40.4231
604247		107608 (50%	Mineral	Claim	082M	2009/may/10	2015/jul/15	GOOD	60.6378
604248		107608 (50%	Mineral	Claim	092P	2009/may/10	2015/jul/15	GOOD	40.4286
604258		107608 (50%	Mineral	Claim	092P	2009/may/10	2015/jul/15	GOOD	40.4232
508580		107608 (50%	Mineral	Claim	092P	2005/mar/10	2013/sep/30	GOOD	484.467
508581	Deposit1	107608 (50%	Mineral	Claim	092P	2005/mar/10	2012/sep/30	GOOD	403.597
508582	Deposit2	107608 (50%	Mineral	Claim	092P	2005/mar/10	2012/sep/30	GOOD	403.434
508583	South1	107608 (50%	Mineral	Claim	092P	2005/mar/10	2012/sep/30	GOOD	504.783
508584	North1	107608 (50%	Mineral	Claim	092P	2005/mar/10	2012/sep/30	GOOD	322.623
508586		107608 (50%	Mineral	Claim	092P	2005/mar/10	2012/sep/30	GOOD	484.714
508587	Southpark	107608 (50%	Mineral	Claim	092P	2005/mar/10	2015/sep/30	GOOD	505.053
508589	Insure	107608 (50%	Mineral	Claim	092P	2005/mar/10	2014/sep/30	GOOD	464.74
508590	Ants	107608 (50%	Mineral	Claim	092P	2005/mar/10	2012/sep/30	GOOD	484.653
517010	INMETINFIL	107608 (50%	Mineral	Claim	092P	2005/jul/12	2017/sep/30	GOOD	141.267
517072	INMETEAST	107608 (50%	Mineral	Claim	092P	2005/jul/12	2012/sep/30	GOOD	80.708
523835	CHU CHUA	115892 (50%	Mineral	Claim	092P	2005/dec/13	2013/sep/30	GOOD	484.336
523836	KCGL2	107608 (50%	Mineral	Claim	092P	2005/dec/13	2013/sep/30	GOOD	342.866
523837	KCGL1	107608 (50%	Mineral	Claim	092P	2005/dec/13	2013/sep/30	GOOD	383.219
523838	CHU CHUA	107608 (50%	Mineral	Claim	092P	2005/dec/13	2013/sep/30	GOOD	40.349
523839	KEGL4	107608 (50%	Mineral	Claim	092P	2005/dec/13	2016/sep/30	GOOD	60.515
523841	KCGL5	107608 (50%	Mineral	Claim	092P	2005/dec/13	2017/sep/30	GOOD	20.174
523843	KCGK7	107608 (50%	Mineral	Claim	092P	2005/dec/13	2012/sep/30	GOOD	60.515
523844	CHU CHUA	107608 (50%	Mineral	Claim	092P	2005/dec/13	2015/sep/30	GOOD	40.349
526296	CHUCHUAE	107608 (100	Mineral	Claim	092P	2006/jan/26	2013/sep/30	GOOD	423.907
528569	GERRY AND	107608 (50%	Mineral	Claim	092P	2006/feb/20	2012/sep/30	GOOD	60.526
528570	ROCKNORT	107608 (50%	Mineral	Claim	092P	2006/feb/20	2012/sep/30	GOOD	100.855
528700	CC FRACTI	107608 (50%	Mineral	Claim	092P	2006/feb/21	2012/sep/30	GOOD	20.17
529890	CAVEATEMI	107608 (100	Mineral	Claim	092P	2006/mar/11	2012/sep/30	GOOD	20.193
530072	CARPEDIEN	107608 (100	Mineral	Claim	092P	2006/mar/15	2012/sep/30	GOOD	20.177
553915	FORGOT	107608 (50%	Mineral	Claim	082M	2007/mar/08	2013/jul/15	GOOD	363.6468
824362	BAR WEST	107608 (50%	Mineral	Claim	092P	2010/jul/22	2015/jul/22	GOOD	485.0999
825122	BAR EAST	107608 (100	Mineral	Claim	082M	2010/jul/23	2015/jul/23	GOOD	444.7539
529302	G & G	115892 (100	Mineral	Claim	092P	2006/mar/03	2016/sep/30	GOOD	40.347
530073	YES	115892 (100	Mineral	Claim	092P	2006/mar/15	2013/sep/30	GOOD	20.188
530077	AND MORE	115892 (100	Mineral	Claim	092P	2006/mar/15	2012/sep/30	GOOD	121.153
857335	GER 1	115892 (100	Mineral	Claim	082M	2011/jun/20	2012/jun/20	GOOD	465.3087
867633	YES YES	115892 (100	Mineral	Claim	082M	2011/jul/24	2012/jul/24	GOOD	364.0212
867635	GOLD777	115892 (100	Mineral	Claim	092P	2011/jul/24	2012/jul/24	GOOD	40.4541
867630	BAR EAST	107608 (100	Mineral	Claim	092P	2011/jul/24	2012/jul/24	GOOD	505.494

867634	BAR SLIM	107608 (100	Mineral	Claim	082M	2011/jul/24	2012/jul/24	GOOD	181.9153
857336	FY EAST	107608 (100	Mineral	Claim	082M	2011/jun/20	2012/jun/20	GOOD	263.0041
887669	CHOOEY1	107608 (100	Mineral	Claim	092P	2011/aug/10	2012/aug/10	GOOD	20.1753
887709	CHOOEY2	107608 (100	Mineral	Claim	092P	2011/aug/10	2012/aug/10	GOOD	20.1736
									9875.8376
ENARGITE									
889827	BAREESTA	107608 (100	Mineral	Claim	082M	2011/aug/17	2012/aug/17	GOOD	282.8283
889835	BAREESTEF	107608 (100	Mineral	Claim	082M	2011/aug/17	2012/aug/17	GOOD	40.3982
889839	BAREESTEF	107608 (100	Mineral	Claim	082M	2011/aug/17	2012/aug/17	GOOD	60.6109
890259	ENERGEE	107608 (100	Mineral	Claim	082M	2011/aug/19	2012/aug/19	GOOD	242.3071
890260	ENERGEEA	107608 (100	Mineral	Claim	082M	2011/aug/19	2012/aug/19	GOOD	100.9739
890370	ENERGEEE	107608 (100	Mineral	Claim	082M	2011/aug/19	2012/aug/19	GOOD	282.6777
894749	FORTUNATI	107608 (100	Mineral	Claim	082M	2011/aug/27	2012/aug/27	GOOD	20.1858
									1029.981

- **Expiry Date Before Recording 2011 Work.**
- **115892 KEN ELLERBECK & 107608 GEROLD LOCKE**

Claims shown with blue highlight in Table 1 and outlined in green on Figure 2 were acquired by Locke and Ellerbeck to cover the Enargite showing (Schiarizza and Preto, 1987) and can be added to the CCS project if Underground decides to proceed with the project and make the next stock and cash payment.

The original Chu Chua Shenul (CCS) property consisted of 32 contiguous mineral claims (Table 3.1a) with a total area of 7,810 ha (19,300 acres), in the Kamloops Mining Division and centered approximately 24km northeast of Barriere, British Columbia. The CCS property was acquired by Shenul Capital Inc. (“Shenul”) from the owners Ken Ellerbeck and Gerald Locke by agreement dated March 10, 2010. The agreement gives Shenul the option to earn 100% interest in the CCS property subject to payments, expenditure requirements and a 2% NSR. The CCS project was acquired by Shenul to test two coincident Aero TEM III airborne magnetic and electromagnetic anomalies with an anomaly selected for grid geochemical and VLF-EM surveying entirely within claim 508587 and the other anomaly extending southerly off claim 508589 onto third party holdings. Through an addendum with Ellerbeck and Locke dated September 15, 2010, the CCS property was expanded southerly by adding 19 claims covering about 4529ha. The CCS property was a contiguous claim block consisting of 51 claims covering 12,339ha. Several claims outside the favourable stratigraphic zone were allowed to lapse by Shenul and the vendors and the Enargite claims added through staking by Ellerbeck to cover the northerly extension of the auriferous acidic rock trend and the Enargite showing. The CCS property presently consists of 41 claims covering 9875.8ha and seven Enargite claims covering 1030.0ha (see Table 3.1).

Elevations on the CCS vary from 900 to over 2200 meters with snow remaining at higher elevation and northern slopes in July. The climate varies from -30°C in winter to +30°C in summers. The area experiences heavy winter snowfalls and trails are used for winter sports. The work season generally extends from mid-June to mid October but in 2010 roads had snow till late June and the initial work attempt from June 8-12, 2010 failed for lack of road access to the proposed grid area. In 2011, a snowfall on July 10th prevented traversing.

Vegetation varies from clear cuts with thick second growth with dense spruce, pine and cedar stands at lower elevations and sub-alpine and alpine vegetation above 1800m. Logging operations are presently active along Birk, Leonie, Delta and Sprague creeks. Local ranches have summer grazing rights but the grid area was not actively grazed by cattle in 2010.

Barriere, inhabited by about 3,450 persons, is the closest town to the property with accommodations, RCMP and a health center. Kamloops, the nearest major center with drilling, mining and airport services, is located 64km south of Barriere along the Yellowhead Highway 5.

4.0 HISTORY

The CCS claims were acquired through online staking during 2005 and 2006 by Ken Ellerbeck and Gerald Locke of Kamloops, B.C. to cover possible extensions of the units hosting the Chu Chua deposit. The Chu Chua deposit, presently on ground held by Reva Resource Corp. (Reva), was defined by drilling programs conducted by Craigmont Mines Ltd. (1978-1982), Falconbridge Copper Corp. (Falconbridege (1985-1986) and Minova Inc. (1987-1991). A historic mineral inventory for the Chu Chua deposit was stated by Heberlein (1990) at 2.7 million tones grading 1.67%Cu, 0.31% Zn, 7.4g/t Ag and 0.31 g/t Au.

In 1995, Eighty Eight Resources conducted soil and rock geochemical sampling on the KB group of claims to the south of the Chu Chua deposit and found favourable geology and alteration (Belick, 1995). No follow-up work was reported.

Strongbow Exploration Inc. (Strongbow) acquired the claims overlying the Chu Chua deposit by online staking on March 2nd, 2006. Strongbow completed a soil sampling program of 302 samples with 264 of the samples collected from the CCS property area. The soil survey found multi-element geochem response with anomalous soils related to Em conductors (Gale, 2007). The 2008 field program for the Chu Chua property was conducted by APEX for Longview Capital Partners and consisted of a property examination by Mr. Kris Raffle and an Aeroquest Limited, 839.7 line km helicopter-borne Aero TEM III survey covering the CCS and surrounding area. A compilation of airborne geophysical anomalies and copper in soils provided by APEX (2010) is presented as Figure 4.1. After

acquisition of the CCS property form Ederrbeck and Locke on March 10, 2010, Shenul targeted anomaly EM1 for grid soil and VLF-EM follow-up. The CCS property was extended southerly to cover the extension of EM2 and other targets by agreement with Ellerbeck and Locke dated September 15, 2010.

Shenul retained Apex Geoscience Ltd. to review the Chu Cha property and prepare a NI43-101 compliant technical report with recommendations for Phase 1 and success contingent Phase 2 exploration to test the mineral potential of airborne magnetic and electromagnetic anomalies (Raffe and Dufrese, 2010; see Shenul ((now Underground) in www.sedar.com). Shenul retained PAC Geological Consulting Inc. to conduct the Phase 1 exploration program recommended by Raffle and Dufresne (2010). Dr. Peter A. Christopher P. Eng. ("Christopher" or "PAC") field supervised and worked on the grid construction, VLF-EM survey, magnetic surveying and geochemical sampling during 2010 and 2011. Geological observations were made during prospecting, geochemical and VLF-EM traverses (Christopher, 2010a & b).

4.1 Part 1 2010 Assessment Program

The field segment of the 2010 Part 1 assessment program was conducted by PAC Geological Consulting Inc. between June 8, 2010 and September under the field supervision of the Christopher (2010a). The Part 1 consisted of construction of the EM1 grid, ~18 line kilometers of VLF-EM and geochemical sampling consisting of 5 rock, 5 silt and 218 soil samples. The VLF-EM showed a number of weak to moderate strength VLF-EM anomalies and a few weakly anomalous copper and gold responses from soils. A scout diamond drilling program of 3-4 BQ diamond drill holes was recommended to explain the cause of the EM1 anomaly (Christopher 2010a).

4.2 Part 2 2010 Assessment Program

The Phase 1 2010 part 2 exploration consisting of a 18 line kilometer ground magnetometer survey over the EM1 grid, start of the EM2 grid baseline and soil geochemical program. Atlas Drilling Ltd. based in Kamloops, B.C. drilled 3 BQTK diamond drill holes totaling 521.5m to test the EM1 grid electromagnetic response. Further geological mapping, geochemical sampling and ground EM and magnetics were planned for the EM2 airborne coincident electromagnetic and the EM1 grid magnetic target.

Core was logged and stored in racks on the property. The Part 2 geochemical sampling program consisted of 4 rock, 21 soil and 27 selected samples of split core with all samples located using grid and UTM coordinates established with Garmin GPS instruments (Figure 4.2).

No significant or anomalous values were obtained for rock or soil samples from the EM1 or EM2 grid area in 2010 but east-west soil and geophysical lines

were proposed to cross the stratigraphic trend in the area of the EM2 anomaly. The magnetic survey over the EM1 grid produced a strong magnetic feature in an area of magnetite bearing gabbro to the west of the EM2 baseline. A few soil lines were recommended to test the magnetic feature.

The material part of the 2010 program was completion of the 500m diamond drill test recommended by Apex. Three road accessible sites in the EM1 grid area were selected to evaluate VLF-EM conductors. Hole CCS 10-2 stayed in a gabbroic body for its entire length. Hole CCS 10-1 and CCS 10-3 tested cherty sediments of the Fennel Formation but did not encounter significant mineralization (Table 4.1; Figure 4.2).

Table 4.1. Pertinent Data for 2010 Diamond Drill Holes Testing EM1 Anomaly.

Hole #*	UTM E/N	Lat./Long.	El.	Azimuth	Dip	Total Depth	Comments
CCS-10-1	0707377/ 5689213	51°18.979”/ 120°01.446”	1831m	270°	58°	377’(114.9m)	
CCS-10-2	0707228/ 5688977	51°18.355”/ 120°01.58”	1848m	270°	58°	657’(200.3m)	
CCS-10-3	0706755/ 5689854	51°19.341”/ 120°01.957”	1739m	90°	55°	677’(206.3m)	
						1711’/521.5m	

* Core from CCS-10-1 and CCS-10-2 stored at El. 1830m UTM 070737E; 5689100N and Lat. 51°18.938'N; Long. 120°01.450’ and from CCS-10-3 stored at UTM 0707912E; 5690821N; Core from CCS-10-3 stored at El. 1880m UTM 0707912E; 5690821N

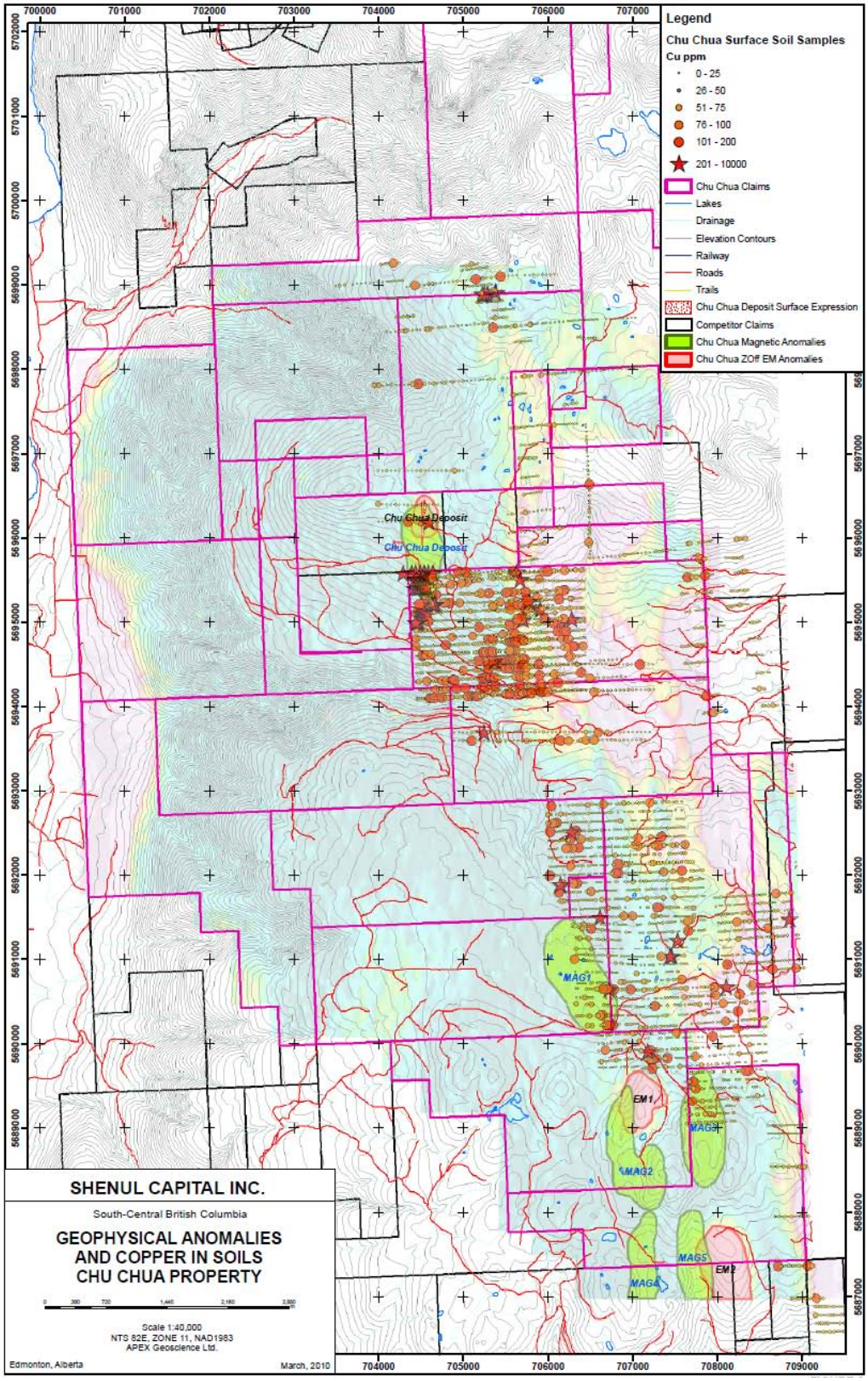

Figure 4.1 EM1 Geophysical Anomaly (From Raffle and Dufresne, 2010)

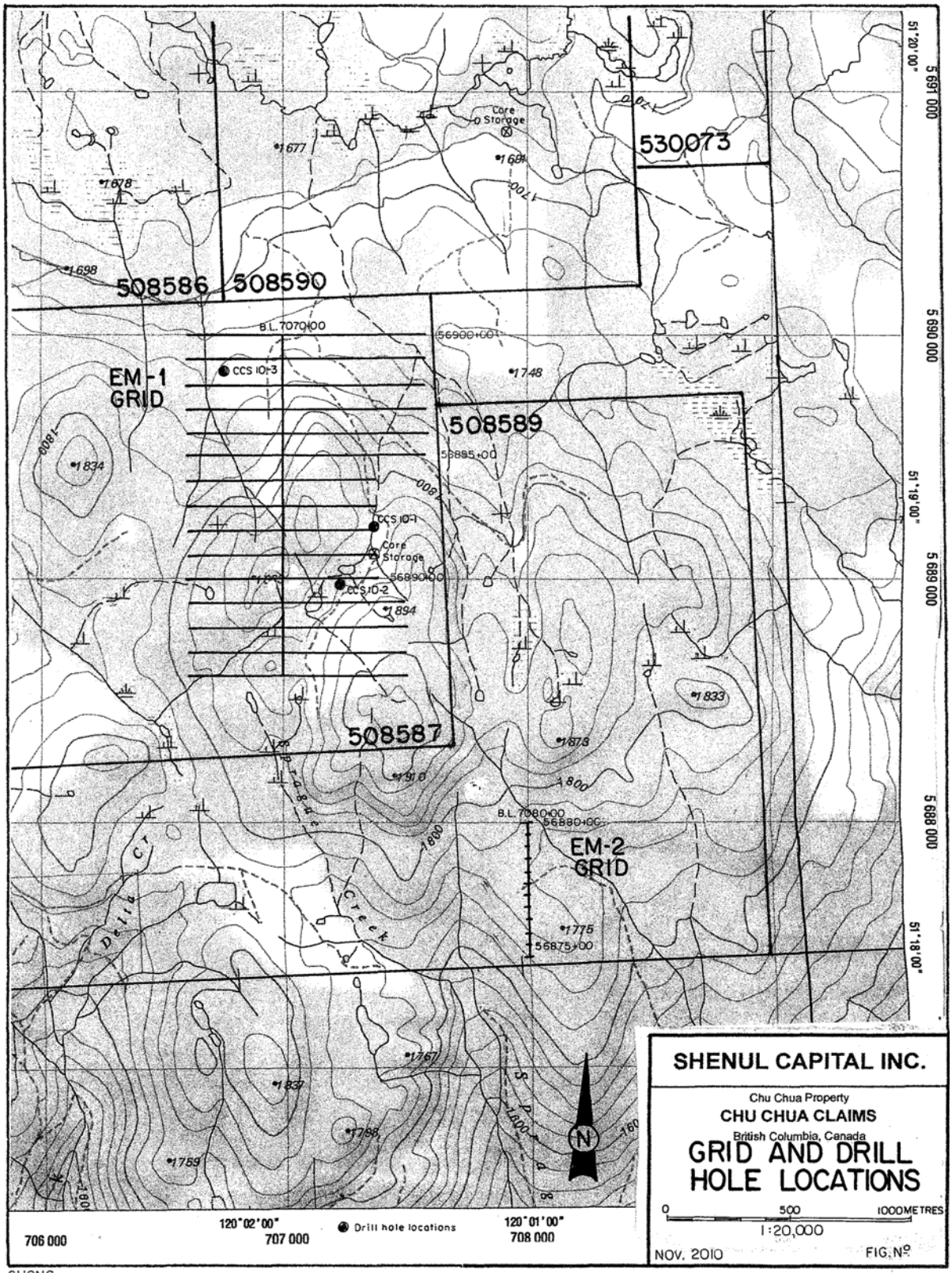

Figure 4.1 CCS 2010 DDH and Grid locations.

5.0 GEOLOGICAL SETTING (Figure 5.1)

The geology of the CCS property has been mapped at 1:100,000 scale by Schiarizza and Preto (1987) as part of the Adams Plateau Clearwater-Vaveby map area. The regional geological description is after Schiarizza and Preto (1987). The CCS, at the western edge of the Omineca Belt, is underlain by the Fennelll Formation of and the Slide Mountain Assemblage to the west and Eagle Bay Assemblage to the east (Figure 5.1). The Homestake and Rea VMS deposits occur in intermediate to felsic metavolcanic rocks of the Lower Devonian to Mississippian Eagle Bay Assemblage and the Chu Chua VMS depsit occurs in the Devonian to Middle Permian Fennelll Formation.

The Fennelll Formation is an oceanic sequence divided by Schiarizza and Preto (1987) into a structurally lower, easerly division consisting of bedded chert, gabbro, diabase, pillowed basalt, clastic metasediments, quartz-feldspar rhyolite porphyry and intraformational conglomerate. The upper, westerly division is host to the Chu Chua deposit and consists mainly of pillowed and massive tholeiitic basalt with gabbro, diabase sills and lessor bedded chert and argillite. The generally near vertically tilted sequence has tops consistently facing west.

Cretaceous granodiorite and quartz monzonite of the Raft and Baldy batholiths intrudes both the Fennelll Formation and the Eagle Bay Assemblage with intrusive rocks underlying the northeasterly part of the CCS. The package is locally overlain or in fault contact with Kamloops Group volcanic and sedimentary rocks and Miocene lavas. Deformation in the Fennelll is not intense but units have been rotated into a verticall dipping west facing position interpreted by Schiarizza and Preto (1987) to be the western limb of a thrust-dismemberede anticline. Late, north and east trending normal faults cause local offsets of the Upper Fennelll stratigraphy and truncation or offset of strong magnetic patterns. . A west dipping thrust zone is inferred to separate the upper and lower Fenell Fm and was based by Schiarizza and Preto (1987) on conodont ages from chert beds.

The upper and lower Fennell divisions are regionally metamorphosed to lower greenschist facies with overprint of contact metamorphism to hornblende hornfels grade near contact of the Baldy Batholith.

5.1 Grid Geology

The geology of the EM 1 grid area was observed by the writer during grid construction, soil sampling and VLF-EM surveying but has not been mapped in detail. The general N-S trending and steep dip to units was confirmed and favors testing of anomalies with low angle east or west directed drill holes. Pyritic cherty units are associated with some of the EM anomalous trends and should be considered when selecting the drill method.

Strong magnetite concentration occurs along a gabbroic ridge to the west of the EM 1 Grid Area. A less or non-magnetic diorite to gabbroic body occurs in

the northeast sector of the grid to the east of a major thrust zone mapped across the property.

The EM2 grid area has granitic rocks in the northwest and metasedimentary and metavolcanic rocks of the Fennell formation to the southeast. The granitic rocks are well exposed and could be mapped in detail but appear to be un-mineralized.

The North Dome and Bar grid areas are both partly underlain by rhyolitic or dacitic acid igneous rocks. The acidic unit has previously been explored for gold but the improved access caused by recent logging and rise in precious metal prices justify a further evaluation.

6.0 MINERALIZATION

Exploration on the CCS property is directed toward location of Chu Chua type mineralization that is found on the enclosed Chu Chua property of Reva and description of this mineralization is pertinent to exploration of the CCS property. The Chu Chua deposit mineralization consists of massive sulphides with pyrite composing 90% of the massive sulphide. The strike extent of the surface mineralization is approximately 300m with thickness ranging up to 80m. Chalcopyrite is the main ore mineral occurring as massive streaks up to 25cm thick, as small inclusions in pyrite and magnetite and as fracture fillings and interstices in coarse angular pyrite. Covellite, chalcocite, sphalerite (and possible trace galena) and magnetite are economic minerals identified in drillcore with cubanite and stannite present (Aggarwal, 1982). Magnetite content is reported to increase toward the footwall. The matrix or gangue is likely mainly quartz and barite. Other possible by-products include gold (< 1 g/t), silver (commonly 10-30 g/t), cobalt 300-475ppm) and trace amounts of tin (stannite), platinum and palladium (Aggarwal, 1982).

The CCS property is reported by Schiarizza and Preto (1987) to include the Enargite occurrence (82M-065 (at 1600m @ sw slope of upper Birk Creek)), a sulphide-bearing quartz vein which cuts sheared rocks along the Fennelll-Eagle Bay fault contact. The occurrence comprises a system of quartz veins and lenses with pods of course grained galena and pyrite with lesser sphalerite and chalcopyrite. A small high-grade shipment was reported to be made to Cominco Ltd. in 1972 (George Cross Newsletter, January 5, 1983).

Pyrite is present in nearly all rock types in the CCS prospect area and arsenopyrite and magnetite have been identified in chert and gabbro, respectively within the grid area but no copper mineralization has been identified.

Gold in vein and shear zones is associated with rhyolite and dacitic igneous rocks that occur in N-S trends in the eastern part of the CCS and Enargite claims.

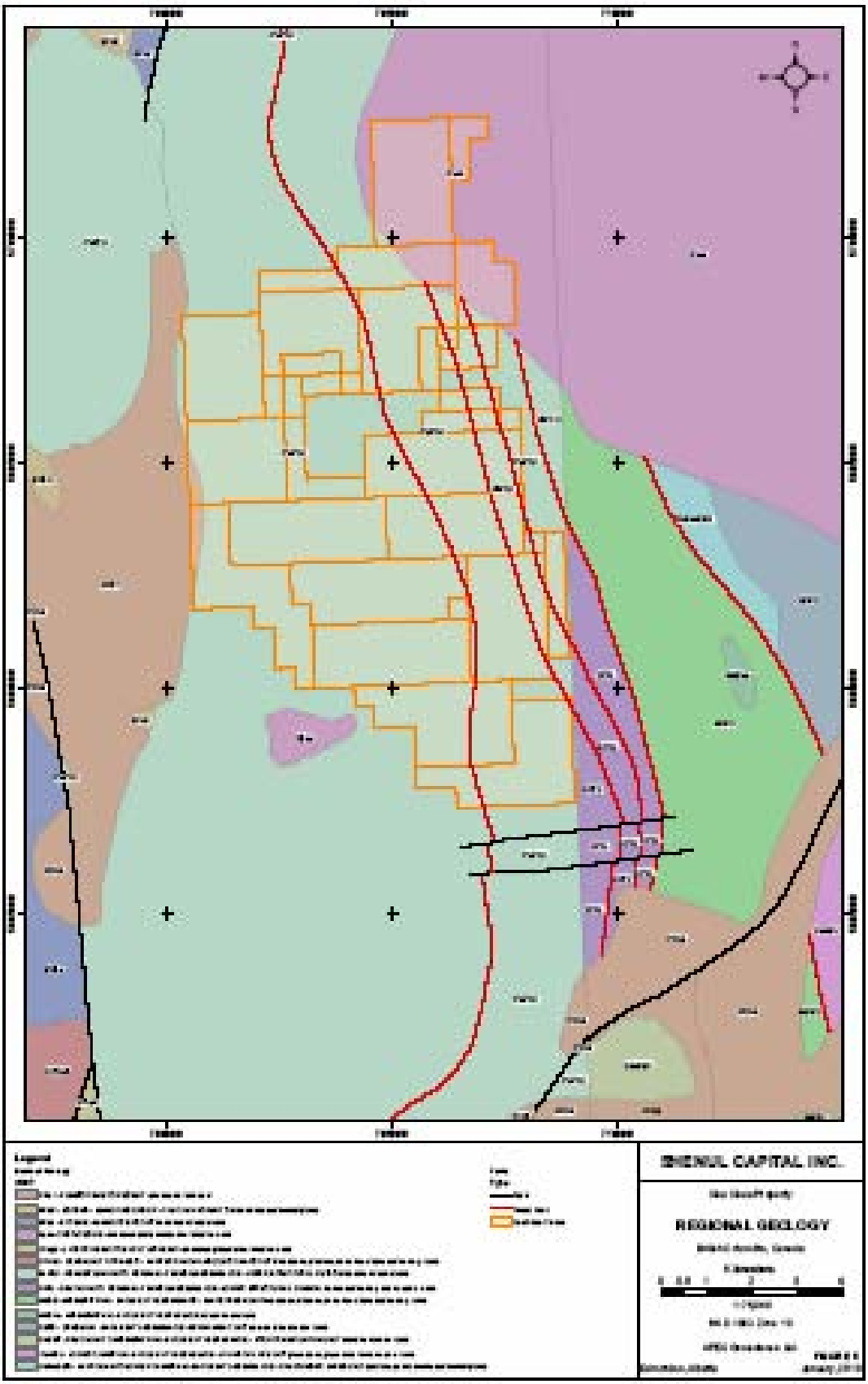

Figure 5.1 Geology of the CCS (from Raffle and Dufresne, 2010).

7.0 2011 SURFACE EXPLORATION (Figure 7.1)

7.1 EM1 GRID

A strong magnetic anomaly, caused by magnetite bearing gabbroic rocks, was found west of the EM1 baseline from 5689600N to of the south end of the grid at 5688400N (Christopher, 2010b). Soil lines were recommended for the 2011 field program to aid in evaluating the magnetic anomaly. Four 600m meter soil line were run across the EM1 magnetic anomaly (Figure 8. x) with 95 soil samples collected and analyzed by ICP-MS.

7.2 EM2 GRID

The Em2 grid baseline was constructed in 2010 to start evaluation of the EM2 airborne anomaly but adverse weather conditions prevented construction and surveying of E-W line needed to cross the stratigraphic trend. Five survey lines were constructed in 2011 with about 8.3 line kilometers soil sampled at 25m sample spacing along lines spaced at 100m and lines extend 1km west and 0.8km east from the 2010 baseline.

7.3 NORTH DOME GRID

The North Dome and Bar Dome grid areas were selected for survey work because of some success with previous gold exploration in these areas. In the North Dome grid area an 800m N-S picketed baseline was constructed and 400m lines surveyed east and west of the baseline mainly at 100m spacing. Soil samples were collected at 25m intervals along lines with 276 samples analyzed and plotted on Figure 8.x).

A total of 7.4km was surveyed with VLF-EM using mainly Annapolis and Cutler transmission stations and 4.2km of magnetic surveying.

7.4 BAR DOME GRID

New exposures along the main access road were 11 rock sampled were collected (Figure 7.1). Test VLF-EM and magnetic lines were run for about 0.5km to see if geophysical signatures are related to the Bar Dome showing.

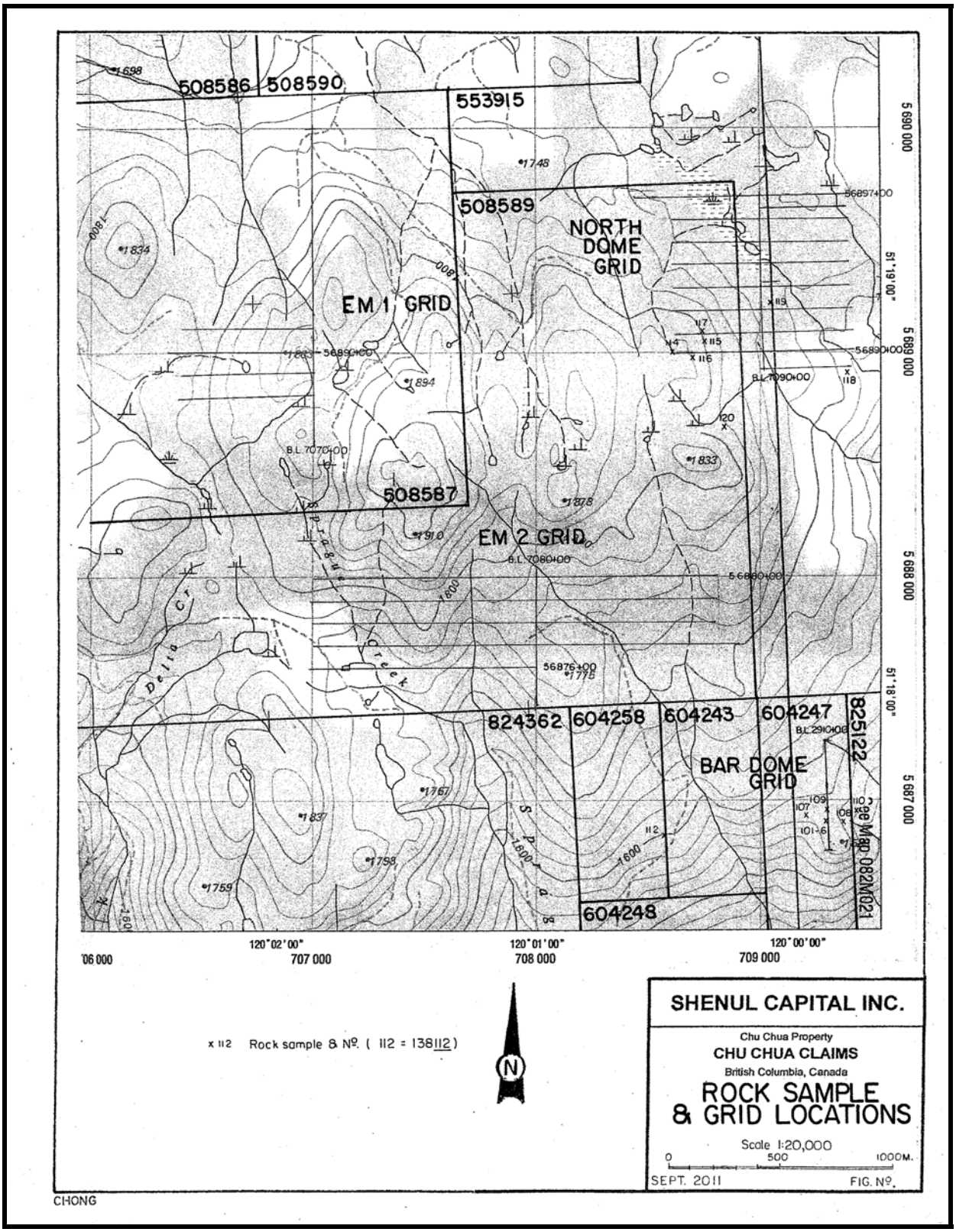

Figure 7.1 Rock Sample and Grid Location Plan for 2011 Program.

8.0 GEOPHYSICAL PROGRAM (Figures 8.1)

The magnetometer survey used a Scintrex MP2 Portable Proton Magnetometer with reading taken using staff mounted sensor connected to a digital readout mounted at chest level. Readings were collected 25m stations along flagged and/or picketed cross lines used for previous VLF-EM and soil sampling. A total of about 18 line-kilometers were surveyed and results plotted and contoured by Chong Drafting (Figures 8.1). The instrument readings were accepted since diurnal variations determined by looping to base stations were generally less than 10 gammas.

The VLF-EM survey used a Geonics EM-16 with crystal for Cutler, Maine and Annapolis yielding two readings at most stations. The Seattle crystal was substituted if either Cutler or Annapolis was off air. VLF-EM data profiles were plotted and conductors evaluated and plotted using methods recommended by Geonics.

8.1 Interpretation and Conclusions

The 2010 magnetometer survey Christopher 2010b) produced a long N-S trending anomaly from 50 to 150m wide that was sharply terminated to the north between lines 56896+00N and 56897+00N but open at the southerly grid boundary. Magnetic values varied from a low of 55,266 gammas at 7068+00E L56893+00N to 58194 gammas for a magnetic relief of 2928 gammas with nearly all values above 56,000 gammas in the strong N-S tending anomaly sub-parallel and west of the baseline. Four soil limes were used to evaluate the economic potential of the magnetic feature on the EM1 grid with only a few weakly anomalous copper and gold values obtained (see section 9.0). No further evaluation of the EM1 magnetic anomaly is considered to be warranted.

The magnetic survey over the North Dome grid showed low magnetic relief (Figure 8.1) with values varying from a low of 55857 gammas to a high of 56189 gammas and the survey was discontinued east of the baseline because of the lack of strong magnetic features. VLF-EM readings for Annapolis were plotted in profiles on Figure 8.2 and Annapolis interpreted conductors summarized on Figure 8.4. VLF-EM readings for Cutler were plotted in profile on Figure 8.3 and Cutler interpreted conductors shown on Figure 8.5. The conductor patterns for Cutler and Annapolis are similar and suggest that the WNW and NNE trends result from conductive zones.

The magnetic survey over the EM2 grid confirmed the presence of two strong northerly trending magnetic highs (Figure 8.6) that appear as a single magnetic high in the airborne magnetic survey. The magnetic trends are parallel to the generally N-S regional stratigraphic trend but may be caused by magnetite bearing intrusive rocks similar to the unit that generated the EM1 anomaly. The magnetic features are not coincident with significant soil anomalies but straddle the strongest soil gold response (Figure 9.3). The VLF-EM profiles for Annapolis (Figure 8.7) and Cutler (Figure 8.8) are not interpreted to show coincident conductive patterns (Figure 8.9)

but the interpretation is based on incomplete data for Annapolis which was off air for part of the survey period.

No significant magnetic (Figure 8.10) or VLF-EM (Figure 8.11) response was obtained with test lines run in the area of the Bar Dome showing which suggests that gold mineralization may not be associated with strong magnetic features or conductors.

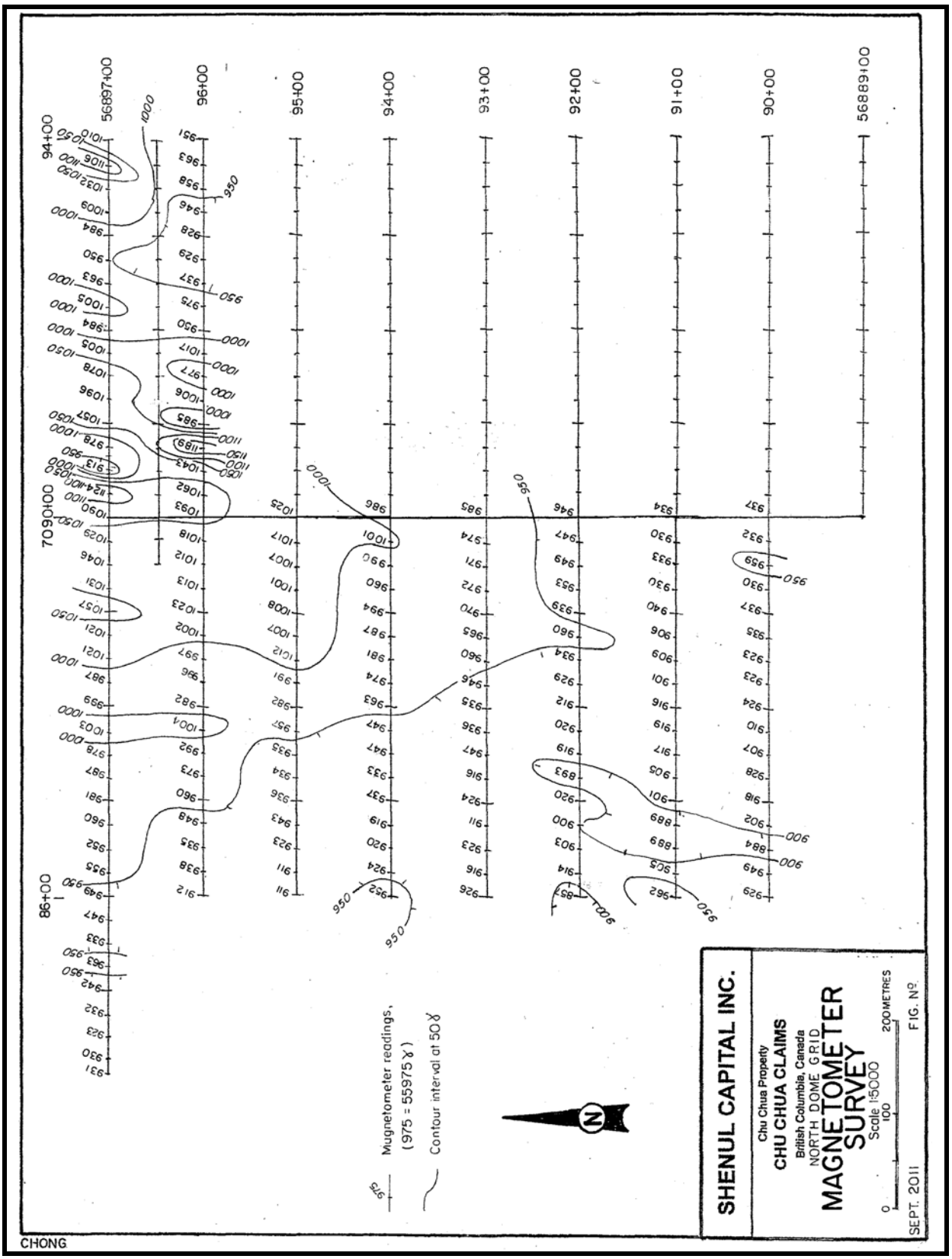

Figure 8.1 Contoured Magnetic Values for North Dome Grid Survey.

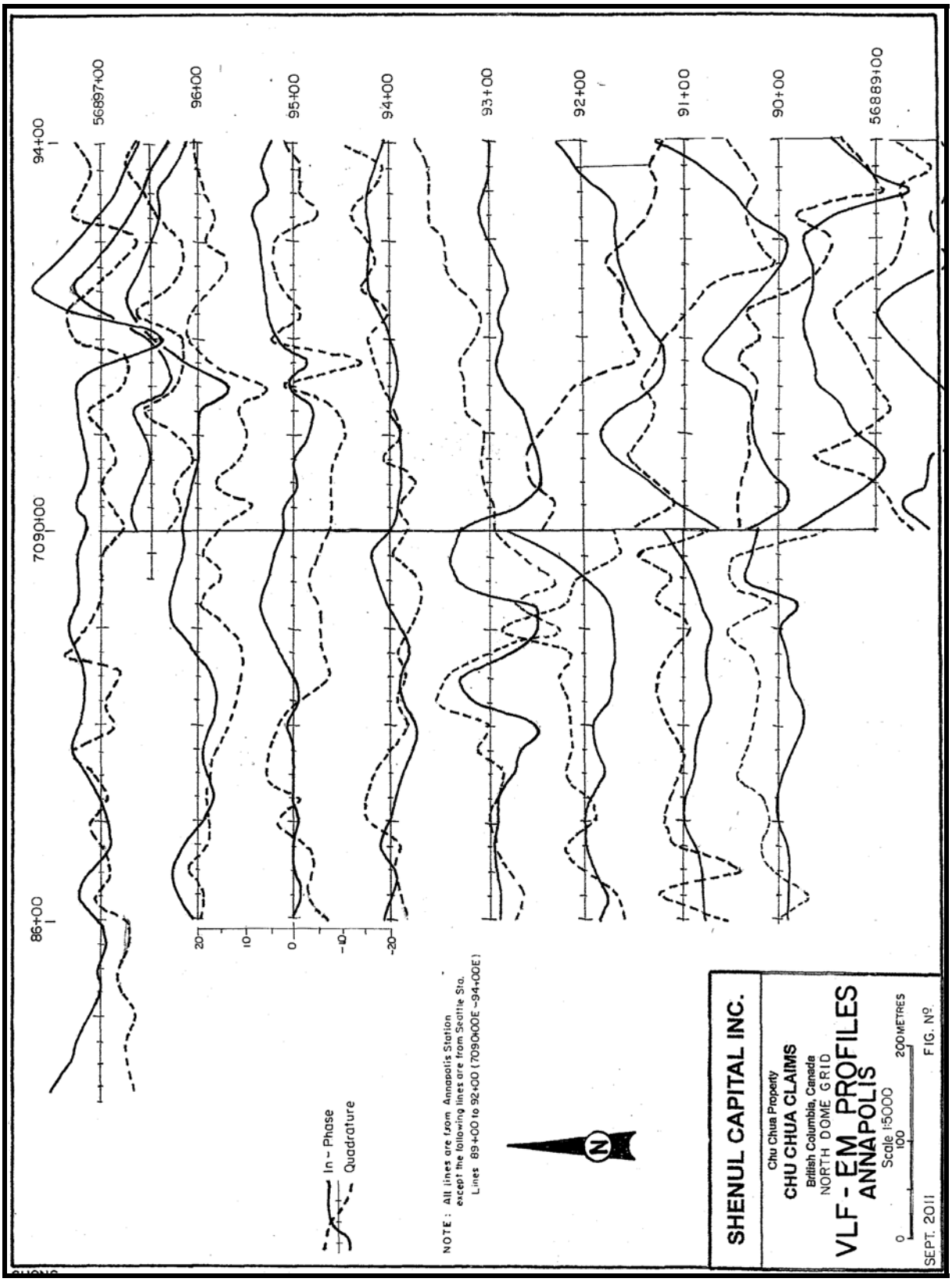

Figure 8.2 VLF-EM Annapolis Profiles for North Dome Grid.

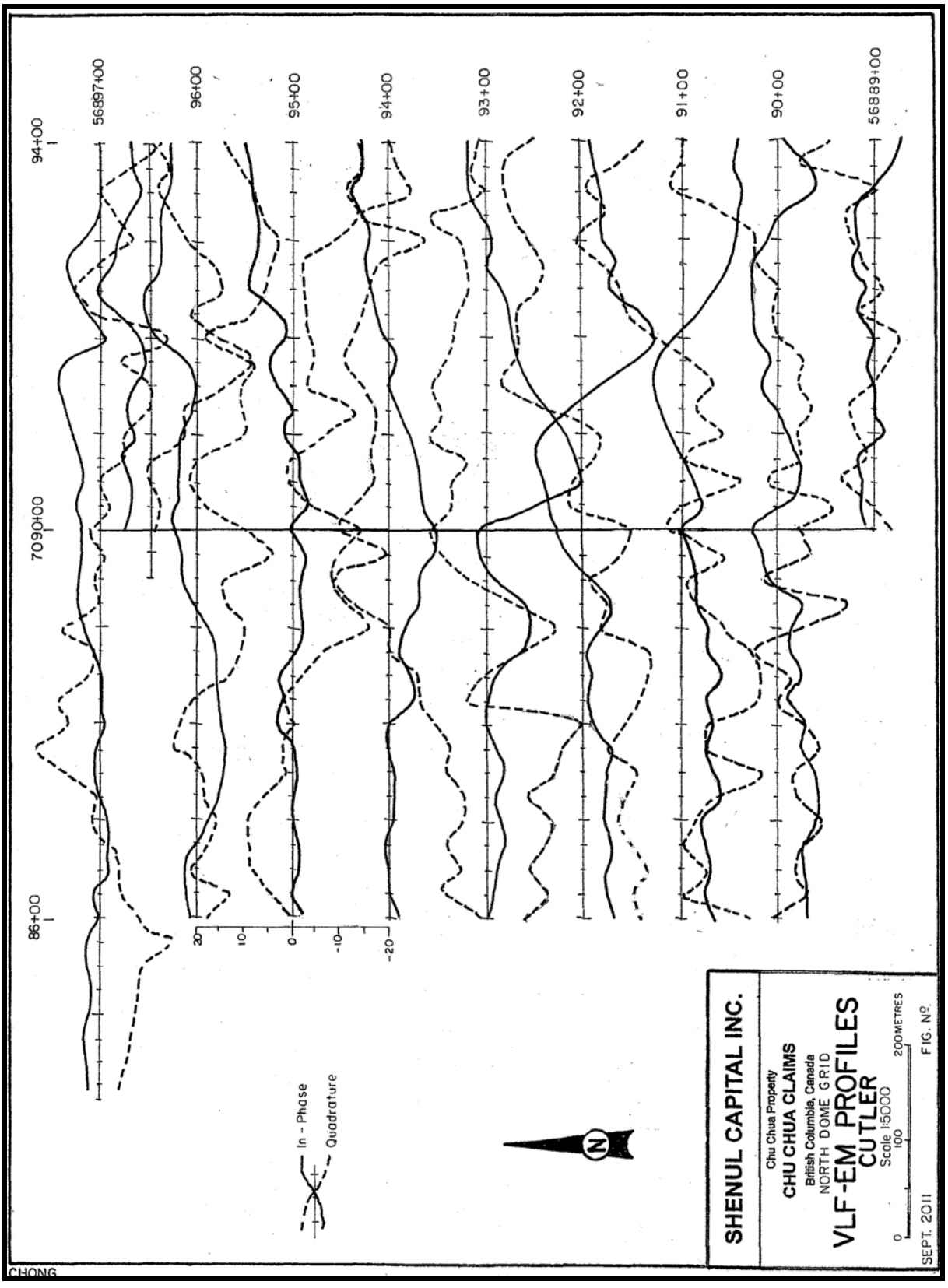

Figure 8.3 VLF-EM Cutler Profiles for North Dome Grid.

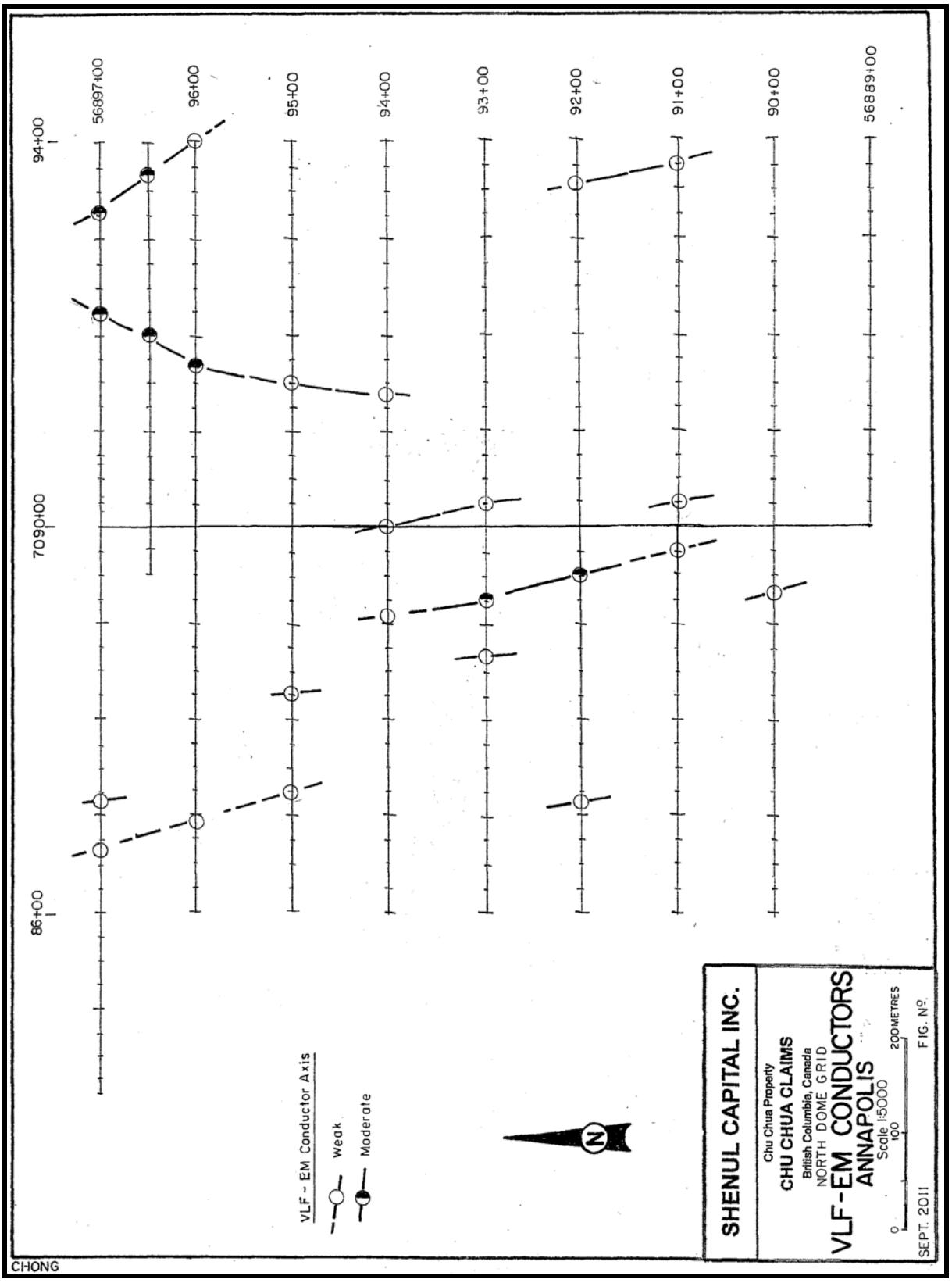

Figure 8.4 VLF-EM Conductor Summaries for North Dome.

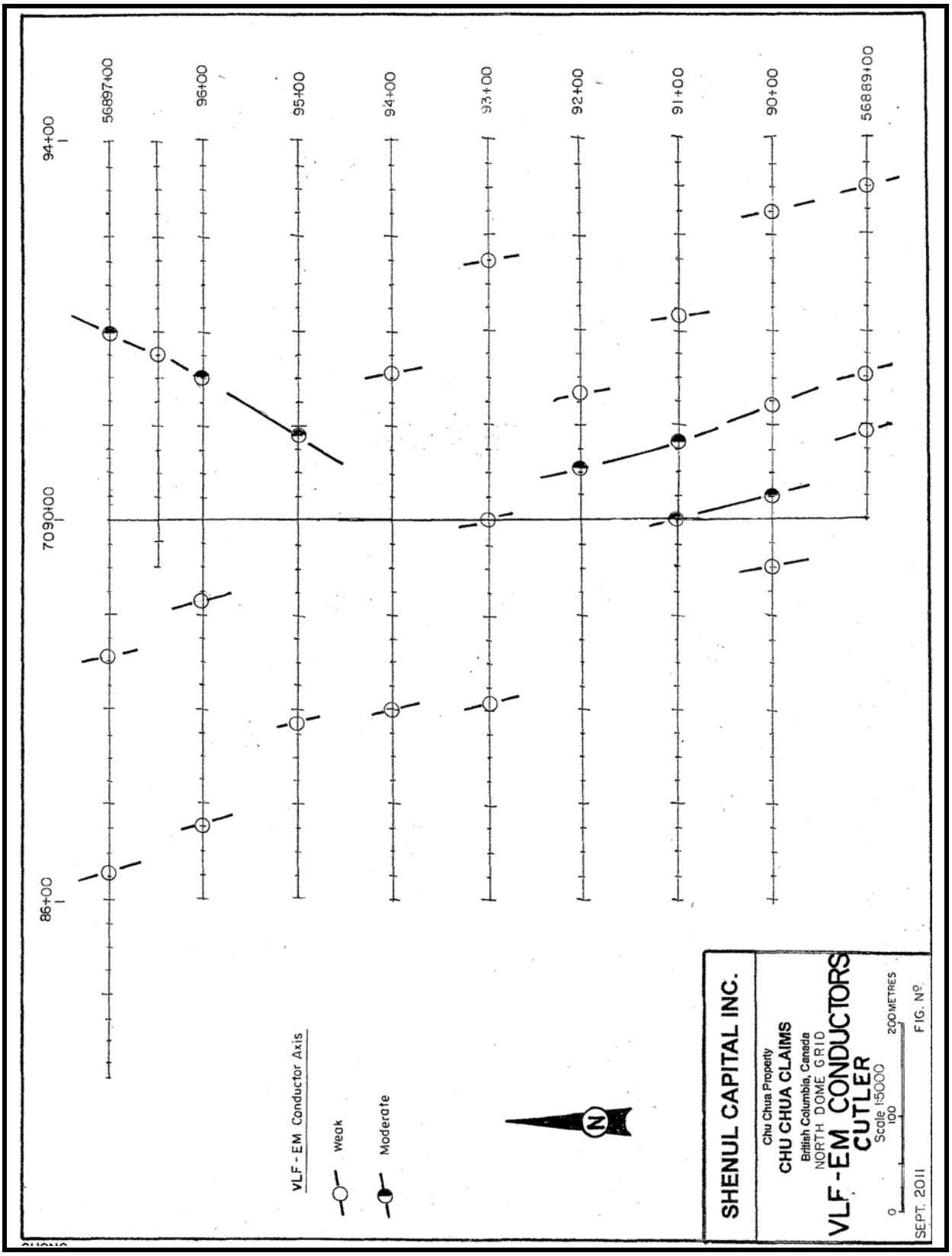

Figure 8.5 VLF-EM Cutler Profiles for North Dome Grid.

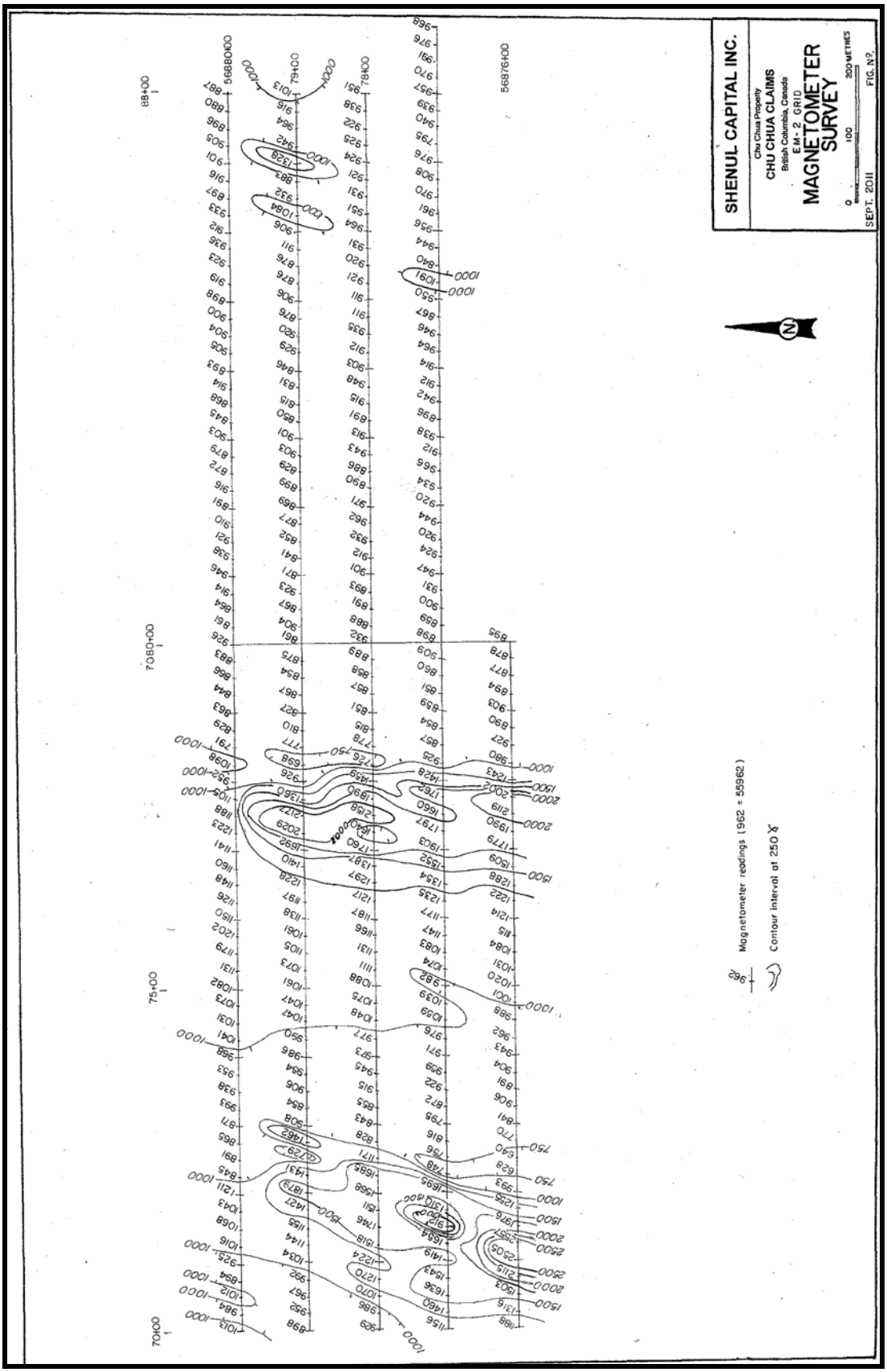

Figure 8.6 Contoured Magnetic Values for EM2 Grid Survey.

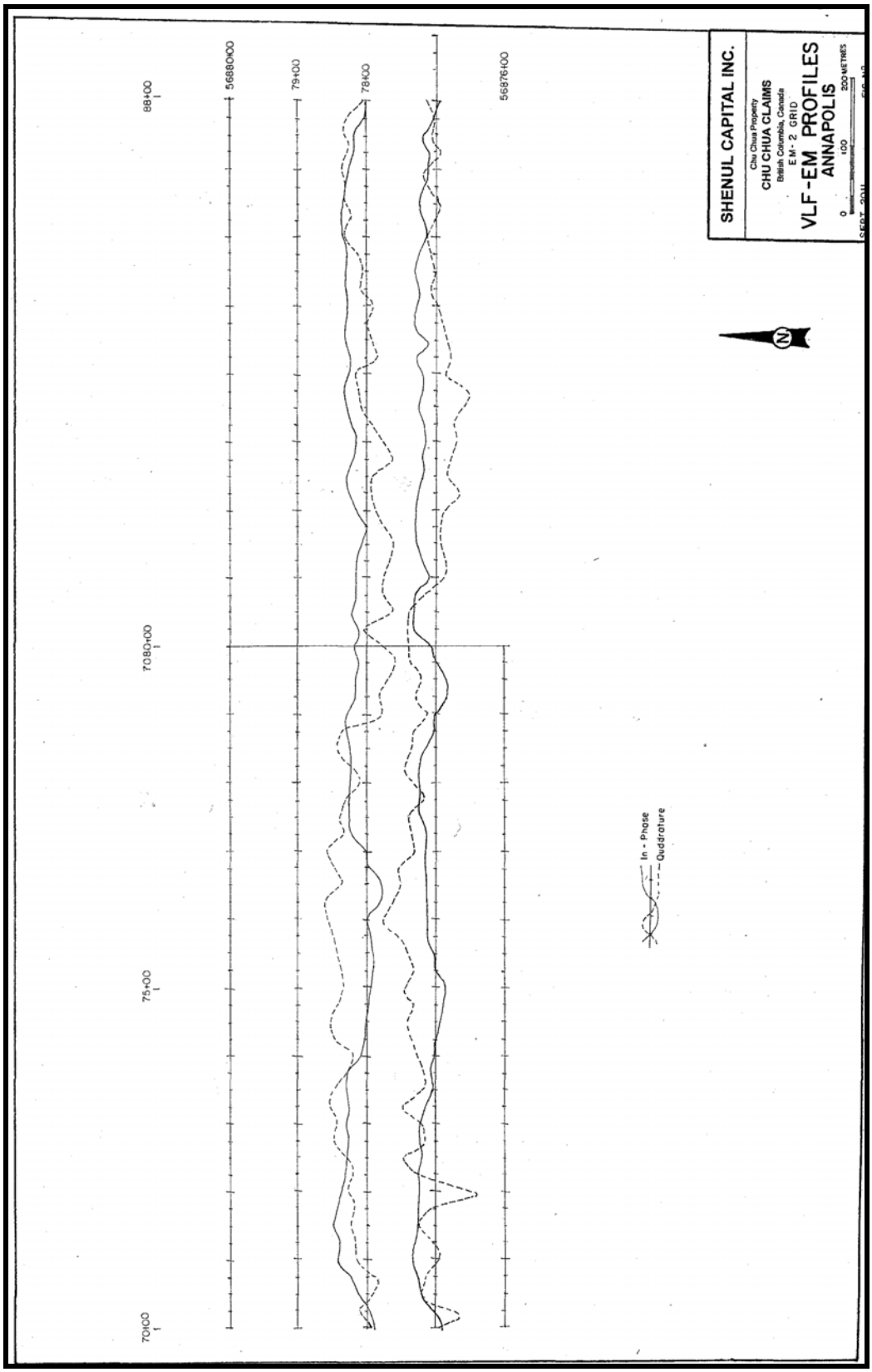

Figure 8.7 VLF-EM Annapolis Profiles for EM2 Grid.

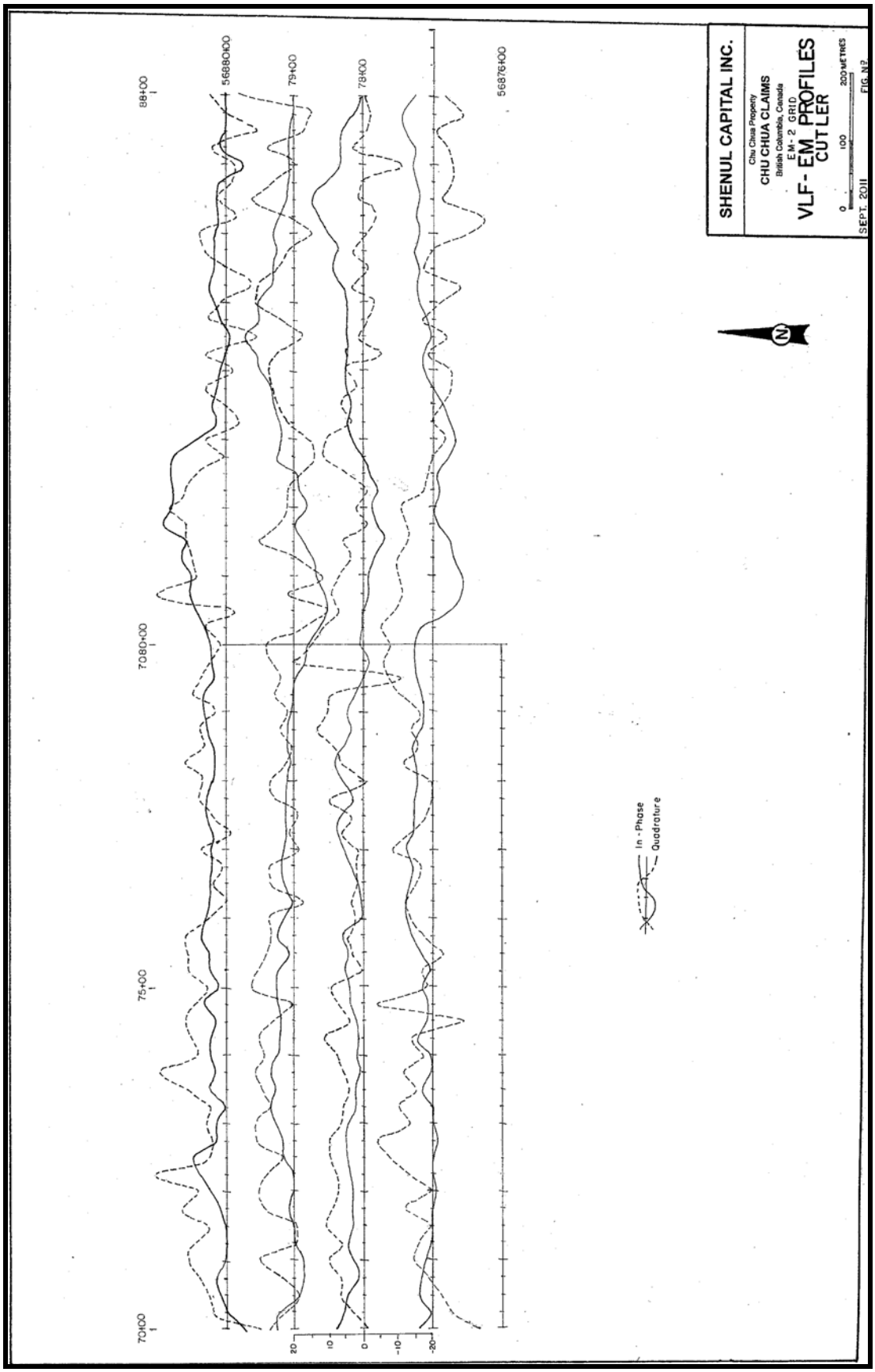

Figure 8.8 VLF-EM Cutler Profiles for EM2 Grid.

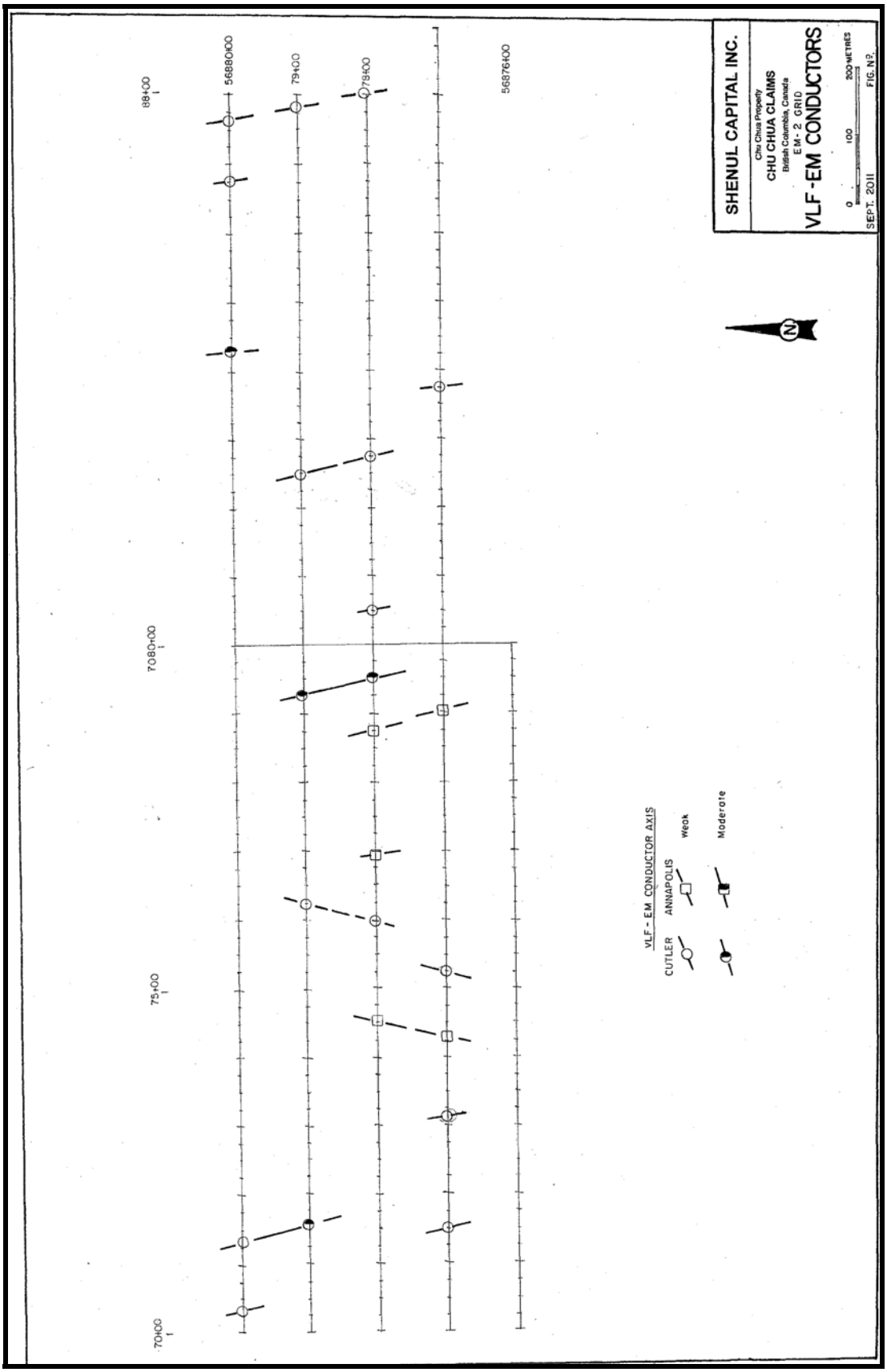

Figure 8.9. VLF-EM Conductor Summary for EM2 Grid.

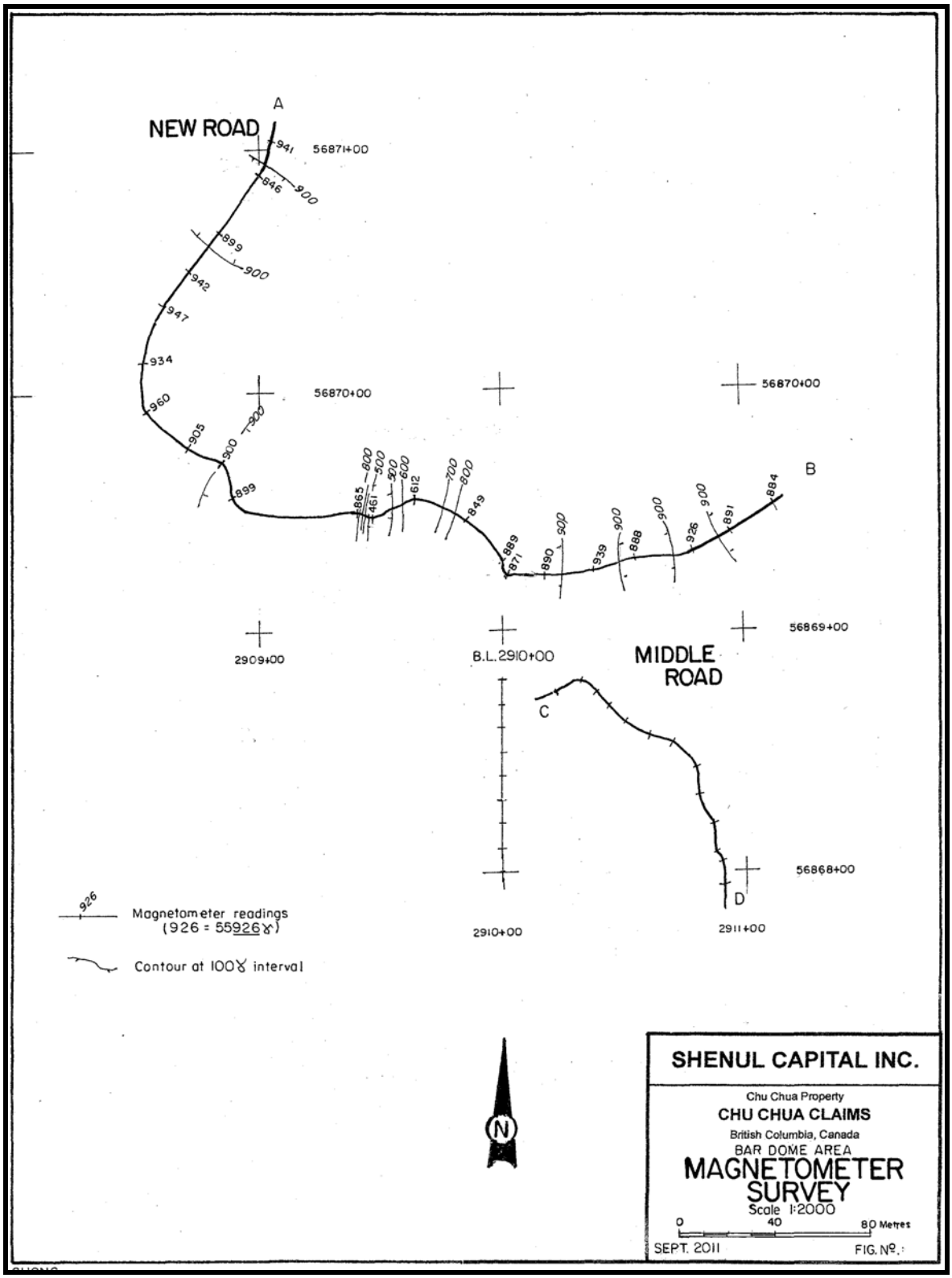

Figure 8.10 Magnetic Reading along Road Crossing Bar Grid.

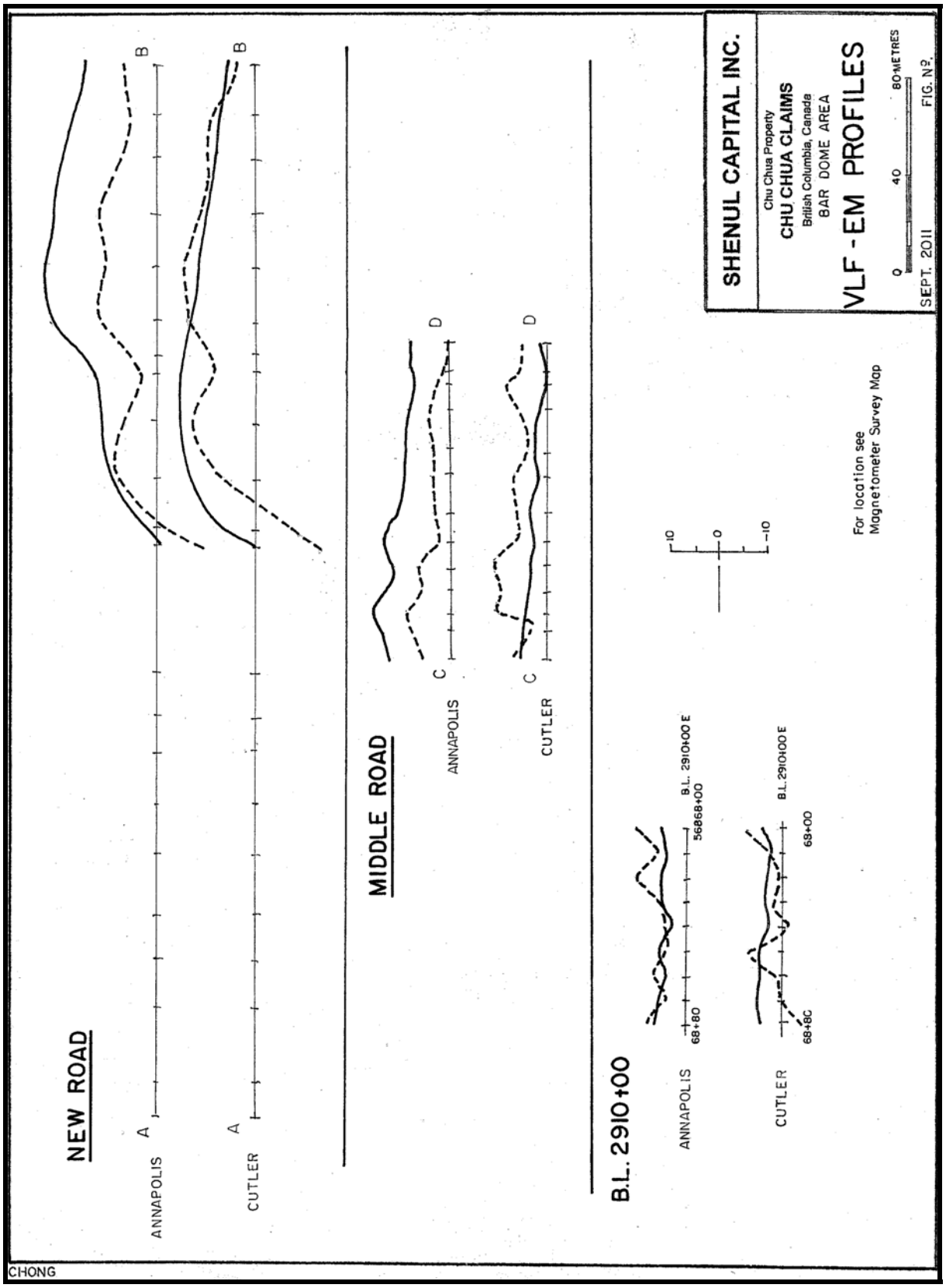

Figure 8.11 VLF-EM Profiles for Bar Dome Grid.

9.0 GEOCHEMICAL PROGRAM

The geochemical program consisted of 19 rock samples and 703 soil samples (690analyzed) with soils collected at 25 meter intervals along east-west lines in the EM2 grid, EM1 grid and North Dome Grid. A total of approximately 17 line kilometers of soil sampling was completed (EM1 Grid 2.5km, EM2 Grid 7.5km & North Done Grid 7.0km). Soil samples were collected at 25 meter intervals from selected line. Samples were obtained from the B-soil horizon generally at 15-20cm below the surface. A mattock was used for sampling. Samples were placed in a kraft soil bag which was marked with the grid station. Samples were dried before delivery to Acme Laboratory in Vancouver. Soil values for copper >49ppm and gold are shown in Figures 9.1 through 9.3 and results with UTM location are presented in Appendix A.

The 19 rock samples (Table 9.1; Figure 7.1) were collected during the program to mainly test acidic igneous rocks in the North Dome and Bar Dome grid areas with sample 138112 collected to check rusty rhyolite on a road southeast of the Bar Grid (Figure 7.1; Table 9.1). Rock sample locations are shown in Figure 7.1 with locations and analytical results summarized in Table 9.1 and assay certificated presented in Appendix A. The best rock gold value of 93.5ppb Au was obtained from a 3m chip sample from the North Dome grid with other rock samples weakly anomalous in the 6.9-31.8ppb Au range. No anomalous copper values were obtained.

An additional 11 rock samples were collected by prospector and property owner Gerold Locke from outcrops created by new logging roads. Locke's samples were submitted to Eco Tech Laboratory Ltd. in Kamloops for 30g fire assay with AA finish and some(6) also analyzed by ICPAES. Locke's sample results and locations are summarized in Table 9.2. Locke's samples generally tested rusty and hematitic rhyolitic outcrops found along new logging roads. The samples are grabs with values up to 3,670ppb (3.7g/t) Au obtainable and seven other grab samples containing between 170ppb and 805ppb Au. Copper values up to 506ppm and anomalous arsenic values occur with anomalous gold.

EM1 Grid Soil Geochemistry (Figure 9.2)

The strong magnetic anomaly in the EM1 grid was crossed with four soil sample lines yielding 95 samples with gold and copper values plotted on Figure 9.2. Only one copper value >50ppm (50.6ppm) was obtained and plotted. Gold values varied from <0.5ppb detection limit to 65.4ppb with 5 samples >10ppb considered weakly anomalous and contoured on Figure 9.2.

EM2 Grid Soil Geochemistry (Figure 9.1)

The EM2 airborne magnetic/electromagnetic anomaly was crossed with several soil lines from which 325 soil samples were collected and 321 samples analyzed. Copper values >50ppm (13 samples) and all gold values are shown on

Figure 9.1. Gold values were contoured at 10, 25 and 50ppb with 12 values >10ppb, 6 >25ppb and 1 value of 357.7ppb Au at station 76+00E 5687600N. No lines were run south of the strongest Au response and both magnetic anomalies (Figure 8.6) run south of the grid area. The EM2 area warrants prospecting of magnetic and geochemical anomalous areas and possibly extension of the grid surveying to the south.

North Dome Grid Soil Geochemistry (Figure 9.3)

A total of 276 samples were analyzed from the North Dome grid area with 18 copper values >50ppm shown on Figure 9.3 and the strongest value of 140.7 ppm Cu at the east end of line 56892+00N. A total of 48 gold values > than 10 ppb and 8 single site values >100ppb (high 176.3ppb) were obtained and gold values contoured at 10, 25, 50, 100ppb Au on Figure 9.3. The strongest gold values occur in a zone from line 91+00N to 93+00N and the anomaly is open to the south. A drill holes was found in the centre of the anomaly.

9.1 Analytical Methods and QA/QC

Acme analytical results are presented in Appendix A (VAN10005598 & 10005137-rock and core; and VAN10005136-soil) with QA/QC procedures used by Acme summarized in Appendix B. Soil, core and rock samples were prepared by ACME using standard crushing and sieving procedures as required. The 1DX2, ICP-MS method, was used for to analyze 15g of prepared sample that are leached in hot (95°) aqua regia. Detection limits for Copper of 0.1ppm to 10,000ppm and gold of 0.5ppb to 100ppm are obtained using the 1DX2 method. No samples requiring over limit analysis were obtained. The sample rejects and pulps are being stored by Acme for three months before disposal.

9.2 Interpretation and Conclusions

The geochemical response for the EM1 grid resulted in a few modestly anomalous, single site gold values and no anomalous copper values (Figure 0.2). The magnetic anomaly is interpreted to be related to magnetite that occurs as a primary phase of gabbroic rocks that underlie the strongest part of the EM1 magnetic anomaly (Christopher, 2010b).

The geochemical sampling in the EM2 grid area (Figure 9.1) resulted in the strongest single site soil gold response of 357.7ppb Au at station 76+00E 5687600N with no lines run to the south. Strong magnetic features straddle the anomalous gold value and prospecting is warranted to determine if the area requires further grid surveying to the south.

The North Done grid produced the largest number of anomalous gold in soil results (Figure 9.3) with the strongest anomaly open to the south. The North Dome grid area was explored in the past and tested by trenching and at least one diamond drill hole.

TABLE 9.1. Writer's Check Samples for CCS Property, Central British Columbia .

SAMPLE #	LOC. UTM E/N	TYPE	WIDTH	AU ppb	Cu ppm	COMMENTS
138101	0291003E 5686927N	Chip	3m 0-3mE	7.7	2.1	
138102	"	Chip	3m 3-6mE	6.9	2.0	
138103	"	Chip	3m 6-9mE	<0.5	1.5	
138104	"	Chip	3m 10.6-13.6mE	1.6	15.6	
138105	"	Chip	7m 13.6-20.6 mE	3.0	16.2	
138106	"	Chip	14m 20.6-34.6mE	<0.5	6.8	
138107	0290921E 5686959N	Grab		<0.5	0.6	
138108	0291079E 5686936N	Chip	9m 59-68mE	1.5	5.2	
138109	0291000E 5686930N	Chip	3m	1.8	50.7	Rusty argillite at culvert 4m west of Station
138110	0291134E 5686980N	Chip	10m	<0.5	4.5	El. 1565m 40m west Sprague Ck. North Rd.
138112	070855E 5686855N	Select		1.1	14.6	El 1610m Zone 10U
138113	Core Hole Bar 3	Found @site	12cm	26.9	3.5	Collected by G. Locke
138114	0708600E 568900N	Chip	0.5m	17.9	60.4	Pyritic fragmental rock
138115	0708754E 5689055N	Select		30.9	7.4	Chips withj 2% QV or weathered Py
138116	0708726E 568898N	Chip	3m	93.5	10.9	Along rusty fracture 5% QV
138117	0708750E 5689075N	Select		31.8	6.0	Rusty QV 15x12x8cm rock
138118	0709400E 5688900N	Select		0.6	3.6	Float
138119	0709053E 5689210N	Select		1.0	9.5	Siderite gossan cut by QV
138120	0708857E 5688670N	Chip	2m	0.6	3.0	1-2mm cubic py in grey rhy

TABLE 9.2. Locke's (8/25/11 & 10/5/11) Check Samples From New Logging Roads on CCS Property, Central British Columbia .

SAMPLE #	LOC. UTM E/N	TYPE	WIDTH	AU ppb	Cu ppm	COMMENTS
Sulphide #2	0708729E 5688107N	Grab	NA	3,670	246	Grabs over 2m
Sulphide #2A	0708735E 5688107N	Grab	NA	805	62	Grabs over 10m
CCN1	0708762E 568898N	Grab	NA	160	36	Grabs over 3m
#1-82511	0708903E 5688207N	Grab	NA	75	36	Grabs over 0.5m
#2-82511	0708807E 5688085N	Grab	NA	<0.5	4	Grabs over 0.5m
#3-82511	0708729E 5688102N	Chip	NA	75	506	Grabs over 2m
#4-82511	0708928E 5688083N	Grab	NA	170	26	Grabs over 1m
#1-10511	0708737E 5688083N	Grab	NA	415	NA	Red (hematite) coated fine grained rock; 15m exposure on new Tolko logging road
#2-10511	0708737E 5688083N	Grab	NA	325	NA	As above
#3-10511	0708737E 5688083N	Grab	NA	250	NA	As above; 3kg rock mixed with hem. Fng rock
#4-10511	0708737E 5688083N	Grab	NA	670	NA	As above

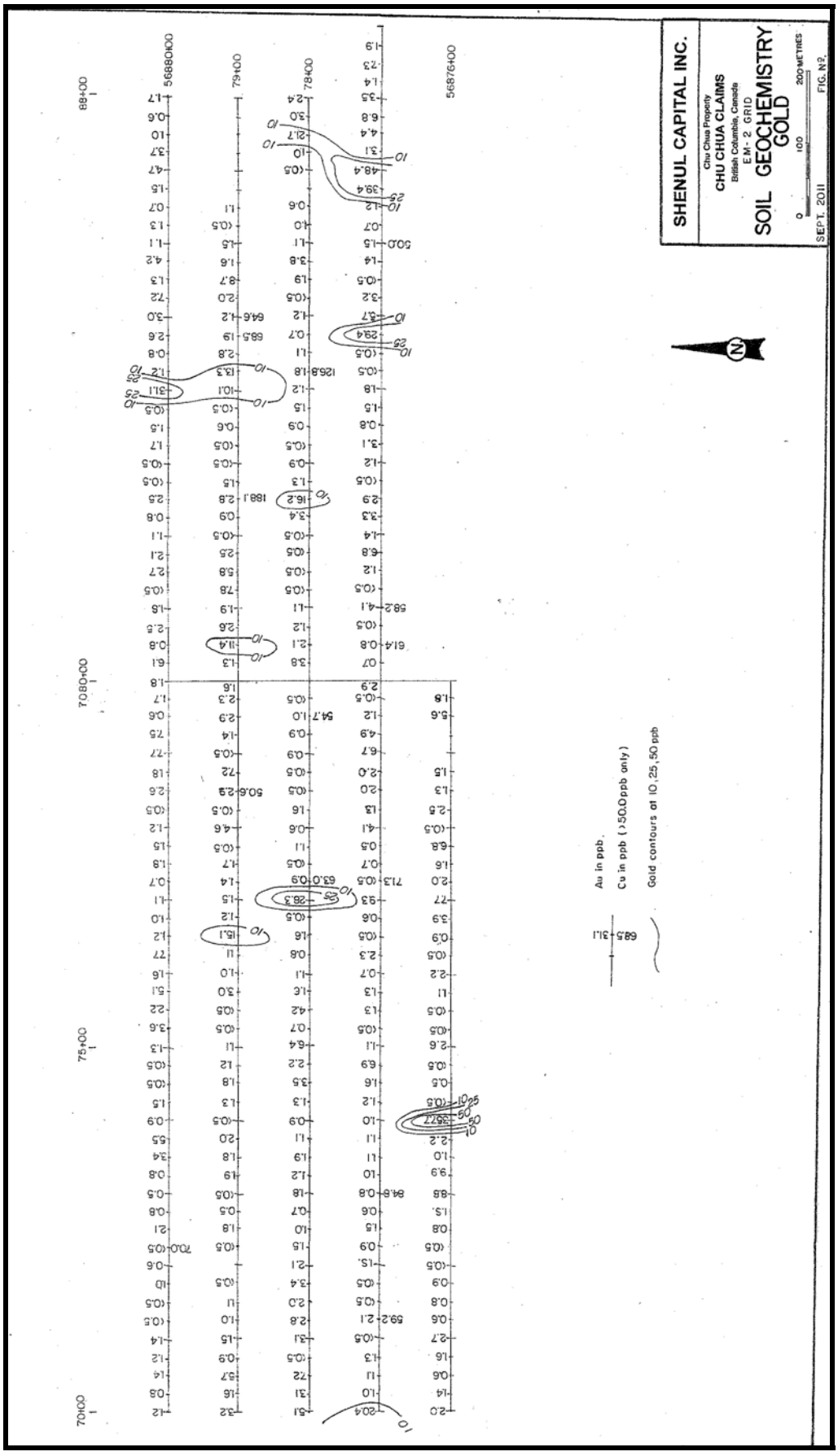

Figure 9.1 Soil Geochemical Results for EM2 Grid (see location Fig 7.1).

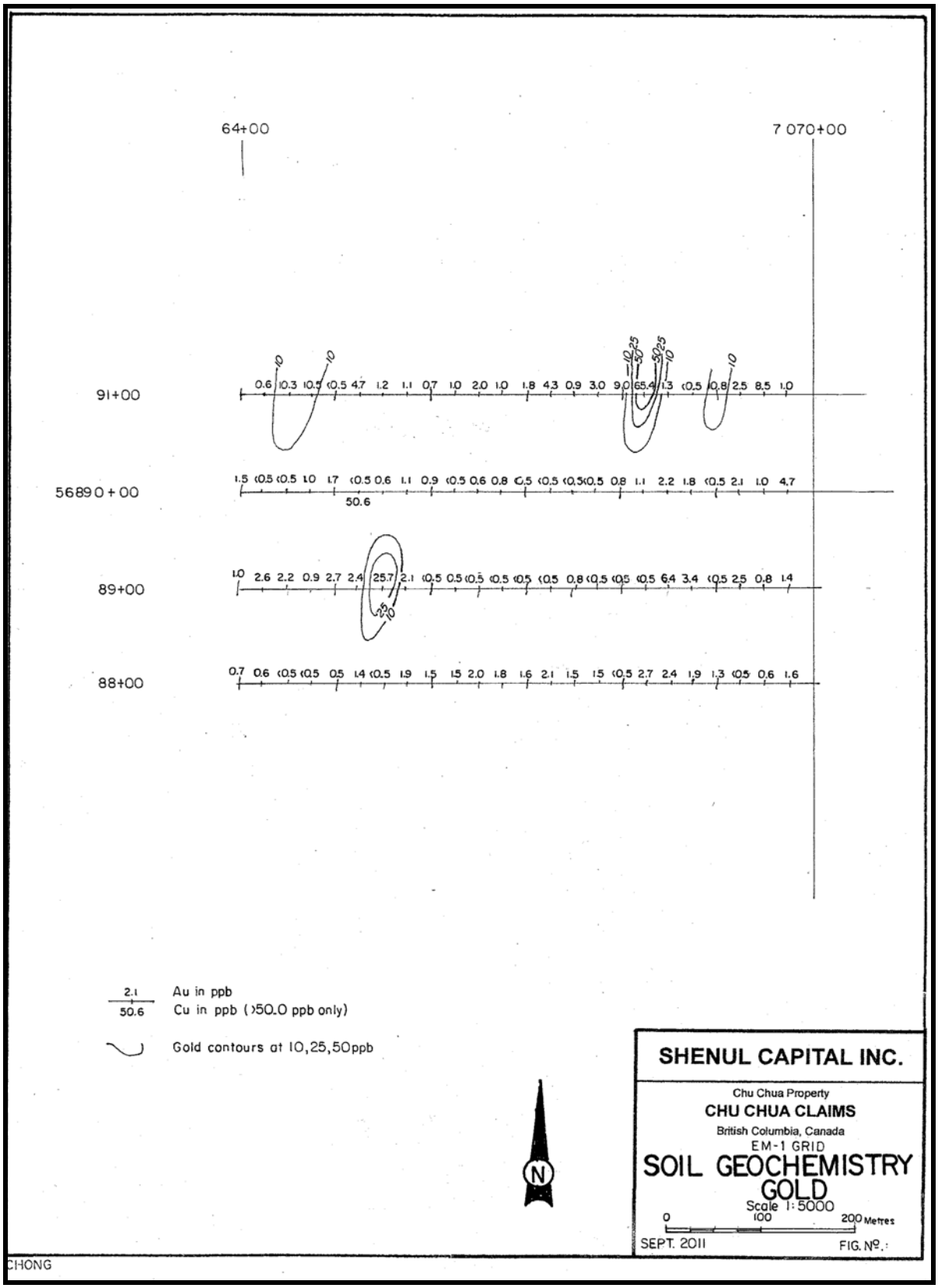

Figure 9.2 Gold Soil Geochemical Results EM1 Grid (see grid location Fig 7.1).

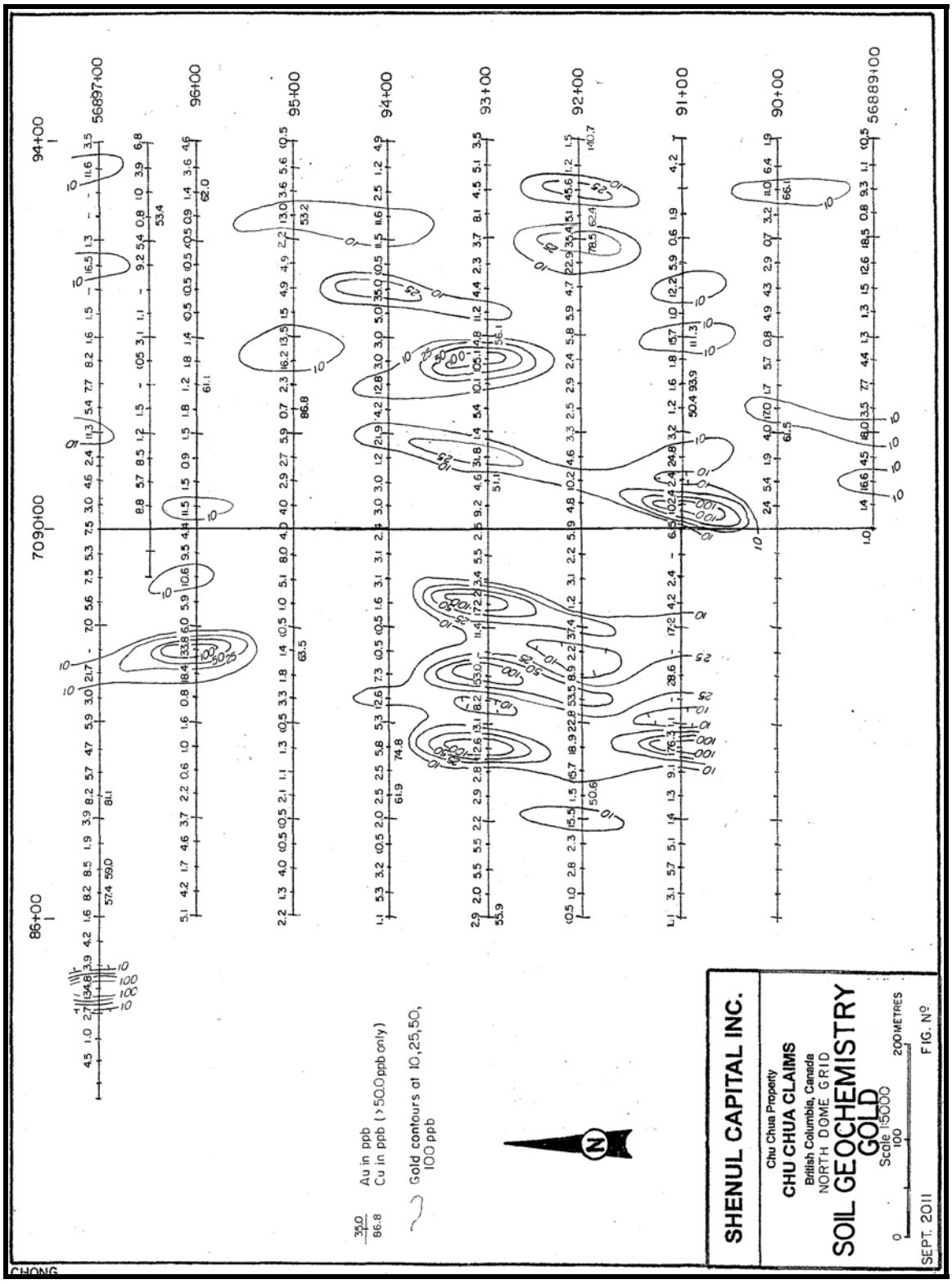

Figure 9.3 Gold Soil Geochemical Results North Dome Grid (see grid location Fig 7.1).

10.0 INTERPRETATION AND CONCLUSIONS

The area of the Em1 airborne was tested with 3 BQTK diamond drill holes totaling 520.3m with 27 split core interval of altered or sulphide bearing intervals selected for geochemical analysis. No anomalous results were obtained and the EM1 anomaly was attributed to graphitic and pyritic shear zones and/or wet contact zones between units (Christopher, 2010b). The MAG2 airborne anomalies shown on Figure 4.1 is mainly outside the EM1 anomaly and was better defined as a >1km and 50-150m wide, N-S trending zone of gabbro intruded basalt or diabase that is situated west of the EM1 baseline. Four soil lines crossed the strongest part of the magnetic feature with no significant copper or gold values obtained. The magnetic anomaly is mainly attributed to magnetic gabbro with little indication of significant associated copper or gold mineralization. No further testing of the EM1 grid area is warranted.

The northern part of the EM2 airborne anomaly has been cross by several VLF-EM, magnetic and soil geochemical lines with definition of the magnetic anomaly but only modest response for copper and gold in soil samples. Prospecting should be conducted around the strongest gold response and magnetic anomalies before considering extension of grid surveying southerly.

Expanding the property to the south resulted in acquisition of area of acidic igneous rocks which were evaluated in the past for their gold content. The location of previous exploration areas has been better defined and current logging is resulting in new exposures along roads. Sampling by Locke, a co-owners, suggests that significant gold values occur in new exposures and new logging roads warrant prospecting and detailed rock sampling.

11.0 RECOMMENDATIONS

The 2011 soil sampling, magnetic and VLF-EM produced some moderately anomalous gold values (100-357.7ppb range) in a trend of acidic igneous rocks with similar historic gold results but the anomalous soil results are mainly outside airborne EM1 and EM2 the magnetic and EM anomalies. The VLF-EM survey indicate a number of weak to moderate strength conductive zones within the targeted grids that generally follow the northerly stratigraphic trend. The conductors may represent wet, sheared or fault contacts as found in the EM1 grid or graphite or sulphides. The 2011 magnetic survey resulted defined the airborne anomaly as two northerly trending zone in the EM2 grid. The North Dome grid is outside the airborne anomalies and no strong magnetic relief was found.

The writer recommends no further work on the EM1 magnetic anomaly or previously drilled (Christopher, 2010b) EM1 grid area. Further soil sampling is recommended around the 357.7ppb Au in soil value on the Em2 grid. The North Dome grid results are similar to historic results which results in previous drilling. The magnetic and VLF-EM line in the Bar Grid did not indicate any strong

magnetic or conductive features with the previously drilling auriferous rhyolite horizon.

The writer suggest that the best approach to finding new or stronger mineralized zones is through rock sampling of new outcrops being developed by active logging operations. If Ungerground is considering a 2012 program then a $25,000 rock sampling and prospect program is need in early November to evaluate areas exposed around the Bar Dome and North Dome for possible areas that warrants a 2012 drill program.

12.0 PERSONNEL AND CONTRACTORS

Table 12.1 List of Contractors.

Contractor	Type of Work	Address
ACME Analytical Laboratories Ltd.	Geochemical Analysis	852 East Hastings Street Vancouver, B.C. V6C 2B3
PAC Geological Consulting Inc.	Grid Construction, Logging Core, Sampling, Geophysical Surveys, Reporting	3707 W. 34th Ave Vancouver, B.C. V6N 2K9
Chong Drafting Services	Drafting	5990 Nelson Ave. Burnaby, B.C. V5H 3H9
Gerold Locke	Sampling, Prospecting, Grid	

13.0 STATEMENT OF COSTS

Table 13.1 Statement of Costs for 2011 Chu Chua Program Expenditures.
Funded by Shenul Capital Inc.
Field Work From July 5, 2011 to July 29, 2011

Item	Description	Amount
Mobalization	Review of Property Reports, Preparation of Equipment, Supplies and Permits	$2,500.00
Personnel Field Days	Geologist Dr. Peter A. Christopher P.Eng 24 days 07/056/2011-07/29/2011 @$1000ea Geophy. Operator Gerry Hayne B.Sc. 24.5 days 07/05/2011-07/29/2011 @$450ea 9 days Gerold Locke & 4x4 truck @$350ea.	$24,000.00 11,025.00 3,150.00
Truck Rental	25 days @ $100/day including insurance & 3,000km	$2,500.00
Fuel & Service	Fuel, Tire Repair & Lube	$441.00
Radio	Required for Logging Road Use; Month Rental	72.77
PAC Equipment Rentals	25 Days @ $300/day: Chain Saw, GPS (4 units), VLF-Em & Magnetometer, Cell Phones (2), Computers & Printer, & 3 person field equipment	$7,500.00
Hotels	24 days	$1,864.40
Board	57 man days @$70/day	$3,990.00

Geochemical Costs	ACME Laboratory Charges Eco Tech	$13,744.97 $462.42
Drafting	Chong Drafting Services	$1,500.00
Consumables	Flagging, Hip Chain, Maps & Reports, Sample Bags, 300 Aluminum Tagged Pickets, Truck Repairs & Service, & misc.	$995.00
Office Charges	Phone, Copying, Word Processing, etc.	$600.00
Reporting	Preparation and Filing	$3,992.61
	Sub total	$78,338.17
	HST Invoiced	$9,400.58
Total Costs	Chu Chua 2011 Program	$87,738.75

"Dr. Peter A. Christopher P.Eng"

14.0 References

Aggarwal, P.K., 1982. Geochemistry of the Chu Chua Deposit, British Columbia. Unpublished University of Alberta, M.Sc. Thesis.

Christopher, P.A. 2010a. 2010 Assessment Report on Surface Exploration of the Chu Chua Shenul (CCS) Property, Kamloops Mining Division, B.C. for Shenul Capital Inc. dated Nov. 17, 2010.

Christopher, P.A. 2010b. 2010 Part 2 Assessment Report on Magnetometer Survey and Diamond Drilling of the Chu Chua Shenul (CCS) Property, Kamloops Mining Division, B.C. for Shenul Capital Inc. dated December 14, 2010.

Gale, D.F., 2007. 2006. Report on Exploration activities, Chu Chua Property, Kamloops Mining Division. For Strongbow Exploration Inc., BCMEMPAssessment Report 28895.

Heberlein, D., 1990. Assessment Report on the 1990 Diamond Drilling Program, Chu 1-3 (9019, 9110, 9112), CC 1-3, CC10-11 (1154, 1373, 1374, 1459, 1460), Ch-1 (1461), Kamloops Mining Division, NTS 92P/8E, Lat. 51°22'N, Long. 120°04'W. BCMEMPR Assessment Report No. 20670.

Paterson, N.R. and Ronka, V., 1969. Five Years of Surveying with the VLF-E.M Method. For Geonics Limited, presented at the 1969 Annual international Meeting, Soc. Exp. Geophysicists.

Raffle, K., and Dufresne, M., 2010. Technical Report on the Base and Precious Metal Potential of the Chu Chua Property, British Columbia.

Raffle, K., 2008. 2008 Report on the Exploration Activities Chu Chua Property, Kamloops Mining Division, NTS 92P/8E, British Columbia. For Strongbow Exploration Inc., BCMEMR Assessment Report.

Schiarizza, P., and Preto, V.A., 1987. Geology of the Adams Plateau-Clearwater-Vavenby Area. BCDM Paper 1987-2, 88p.

Schiarizza, P. et al., 1983. Geology of the Barriere River-Clearwater Area.BCEMPR Preliminary Map No. 53, November 1983.

2011 ASSESSMENT REPORT ON EXPLORATION-CCS PROPERTY

15.0 Certificate

I, Peter A. Christopher, with business address at 3707 West 34th Avenue, Vancouver, British Columbia, do hereby certify that:

1. I am a Consulting Geological Engineer registered (#10,474) with the Association of Professional Engineers and Geoscientists of British Columbia since 1976.
2. I am a past Fellow of the Geological Association of Canada and Society of Economic Geologists.
3. I hold a B.Sc. (1966) from the State University of New York at Fredonia, a M.A. (1968) from Dartmouth College and a Ph.D. (1973) from the University of British Columbia.
4. I have been practicing my profession as a Geologist for over 40 years and as a Consulting Geological Engineer since June 1981. I have authored over 300 qualifying engineering and exploration reports, and over 20 professional publications. I have work experience in most areas of the United States, Canada, Papua New Guinea, Madagascar, Philippines, Mexico and several Latin American and African countries. I have worked on copper deposits in Canada, United States, Chile, Philippines, Mexico, Spain, Portugal, Mozambique and Albania.
5. I was president and exploration manager of Shenul Capital Inc. and field managed the 2010 and 2011 field programs. I am responsible for preparation of this report entitled "2011 ASSESSMENT REPORT ON SOIL SAMPLING, MAGNETIC SURVEYING AND VLF-EM SURVEYING ON THE CHU CHUA SHENUL (CCS) PROPERTY, KAMLOOPS MINING DIVISION, B.C." dated October 14, 2011. I have based this Technical Report on previous copper exploration experience, review of references listed in Section 27.0 and a site exploration between July 5th and July 29th, 2011 but have no prior experience on the property.
6. I consent to the filing of this CCS report by Shenul Capital Inc. (now Underground Energy) for assessment purposes.

7. Dated at Vancouver, British Columbia, the 14th day of October 2011.

Original Signed and Sealed

"Peter A. Christopher"

Peter A. Christopher, PhD., P.Eng

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

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Client: **PAC Geological Consulting Inc.**
3707 W. 34th Ave.
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Submitted By: Peter Christopher
Receiving Lab: Canada-Vancouver
Received: July 30, 2011
Report Date: August 19, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN11003592.1

CLIENT JOB INFORMATION

Project: CCS 2011
Shipment ID:
P.O. Number
Number of Samples: 19

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	19	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	19	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

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

ADDITIONAL COMMENTS

Invoice To: PAC Geological Consulting Inc.
3707 W. 34th Ave.
Vancouver BC V6N 2C9
Canada

CC:

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. Results apply to samples as submitted.
"*" 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: CCS 2011
Report Date: August 19, 2011

CERTIFICATE OF ANALYSIS VAN11003592.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
138101	Rock	2.47	0.3	2.1	10.6	15	<0.1	2.0	0.5	72	0.69	5.9	7.7	19.3	5	<0.1	0.1	0.3	2	0.03	0.017
138102	Rock	2.13	0.6	2.0	13.9	27	<0.1	3.5	1.0	202	1.05	5.3	6.9	16.4	9	0.1	0.3	0.3	<2	0.05	0.023
138103	Rock	2.06	0.3	1.5	12.3	22	<0.1	2.0	0.7	69	0.46	1.6	<0.5	23.9	6	0.1	0.2	0.3	<2	0.03	0.018
138104	Rock	1.64	0.3	15.6	35.2	74	0.1	7.9	3.1	104	0.77	66.9	1.6	25.7	9	0.1	0.2	0.5	<2	0.05	0.020
138105	Rock	2.14	2.6	16.2	32.3	101	0.4	9.1	4.7	78	1.41	36.3	3.0	15.3	12	0.2	4.6	0.4	9	0.07	0.052
138106	Rock	2.66	0.7	6.8	29.6	28	<0.1	4.0	1.5	57	0.88	6.0	<0.5	21.4	7	<0.1	0.3	0.5	<2	0.02	0.016
138107	Rock	1.27	0.1	0.6	36.3	28	0.1	0.8	0.7	448	0.67	1.7	<0.5	17.7	99	<0.1	0.2	0.2	<2	2.10	0.015
138108	Rock	1.56	0.2	5.2	14.7	31	<0.1	3.1	0.5	22	0.32	3.3	1.5	25.4	5	0.1	0.2	0.6	<2	0.07	0.025
138109	Rock	1.67	2.7	50.7	31.6	161	0.5	34.7	12.3	162	3.01	35.0	1.8	10.7	19	0.4	2.7	0.9	9	0.08	0.079
138110	Rock	1.41	0.2	4.5	20.9	39	<0.1	3.3	1.2	31	0.36	6.0	<0.5	25.2	4	<0.1	0.1	0.4	2	0.04	0.020
138112	Rock	1.50	0.2	14.6	0.8	29	<0.1	22.5	6.4	100	0.69	2.7	1.1	3.4	8	0.1	0.2	<0.1	33	0.09	0.021
138113	Drill Core	0.19	0.2	3.5	26.4	69	0.2	1.2	0.5	105	0.66	8.8	26.9	17.3	10	0.2	0.3	0.4	<2	0.02	0.012
138114	Rock	0.77	1.8	60.4	18.5	96	0.5	50.7	9.6	203	2.50	27.9	17.9	3.6	13	0.2	1.4	0.4	8	0.15	0.021
138115	Rock	0.63	0.2	7.4	16.3	13	<0.1	0.7	0.3	44	0.56	24.8	30.9	17.1	7	<0.1	0.3	0.1	<2	0.07	0.012
138116	Rock	1.29	0.6	10.9	49.0	38	0.2	1.3	0.5	42	0.73	32.8	93.5	16.1	8	0.1	0.4	<0.1	<2	0.07	0.011
138117	Rock	0.85	1.1	6.0	36.4	35	0.2	1.2	0.3	38	0.81	29.3	31.8	18.1	6	<0.1	1.1	0.2	<2	0.07	0.012
138118	Rock	2.33	0.2	3.6	31.9	4	0.2	2.7	0.9	1038	0.62	1.9	0.6	0.2	687	0.4	<0.1	0.5	<2	5.18	0.015
138119	Rock	0.94	0.1	9.5	2.0	56	<0.1	325.2	70.1	1549	7.36	316.6	1.0	0.1	33	0.2	2.9	<0.1	48	1.41	0.012
138120	Rock	0.71	0.4	3.0	25.7	42	0.2	0.8	1.3	210	1.06	21.3	0.6	14.3	24	<0.1	0.3	0.3	<2	0.68	0.013

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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Vancouver BC V6N 2C9 Canada

Project: CCS 2011
Report Date: August 19, 2011

CERTIFICATE OF ANALYSIS VAN11003592.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
138101	Rock	55	1	0.02	88	0.002	2	0.25	0.061	0.11	<0.1	0.02	1.5	<0.1	<0.05	1	<0.5	<0.2
138102	Rock	43	9	0.02	71	0.002	<1	0.26	0.067	0.10	<0.1	0.01	3.0	<0.1	0.12	<1	<0.5	<0.2
138103	Rock	70	6	0.02	148	0.001	1	0.33	0.036	0.22	<0.1	<0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
138104	Rock	71	1	0.09	229	0.001	<1	0.51	0.024	0.27	<0.1	<0.01	0.9	<0.1	0.06	1	<0.5	<0.2
138105	Rock	51	8	0.07	257	0.002	2	0.52	0.007	0.34	0.1	0.09	1.4	0.1	<0.05	1	0.8	<0.2
138106	Rock	57	2	0.03	572	0.001	<1	0.39	0.024	0.20	<0.1	0.01	1.7	<0.1	0.10	1	<0.5	<0.2
138107	Rock	38	4	0.04	220	0.002	2	0.42	0.019	0.44	<0.1	<0.01	1.0	0.1	<0.05	1	<0.5	<0.2
138108	Rock	83	6	0.06	221	0.002	2	0.46	0.010	0.36	<0.1	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2
138109	Rock	29	5	0.04	178	0.003	2	0.51	0.004	0.30	<0.1	0.05	1.8	0.1	0.11	1	0.9	<0.2
138110	Rock	68	<1	0.06	151	0.003	2	0.44	0.016	0.34	<0.1	0.01	0.8	<0.1	<0.05	1	<0.5	<0.2
138112	Rock	5	44	0.64	519	0.030	<1	0.49	0.025	0.03	0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
138113	Drill Core	30	4	0.02	132	<0.001	2	0.15	0.074	0.07	<0.1	0.01	0.6	<0.1	0.12	<1	<0.5	<0.2
138114	Rock	6	8	0.22	213	0.001	2	0.29	0.007	0.16	<0.1	0.01	1.5	<0.1	1.11	<1	2.1	<0.2
138115	Rock	48	2	0.02	60	<0.001	1	0.27	0.049	0.12	<0.1	<0.01	0.5	<0.1	<0.05	1	<0.5	<0.2
138116	Rock	33	4	0.04	115	0.001	1	0.24	0.056	0.13	0.1	<0.01	0.6	<0.1	0.07	<1	<0.5	<0.2
138117	Rock	34	3	0.01	75	<0.001	1	0.22	0.040	0.16	<0.1	0.02	0.7	<0.1	0.07	<1	<0.5	<0.2
138118	Rock	1	4	0.12	7	<0.001	<1	0.09	0.008	0.02	<0.1	<0.01	2.6	<0.1	<0.05	<1	<0.5	<0.2
138119	Rock	1	242	1.68	142	<0.001	<1	0.41	0.081	0.04	<0.1	<0.01	54.3	<0.1	<0.05	<1	<0.5	<0.2
138120	Rock	19	2	0.04	91	<0.001	1	0.27	0.028	0.20	0.1	<0.01	0.8	<0.1	0.46	<1	<0.5	<0.2

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3707 W. 34th Ave.
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Project: CCS 2011
Report Date: August 19, 2011

QUALITY CONTROL REPORT VAN11003592.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
138108	Rock	1.56	0.2	5.2	14.7	31	<0.1	3.1	0.5	22	0.32	3.3	1.5	25.4	5	0.1	0.2	0.6	<2	0.07	0.025
REP 138108	QC		0.2	5.8	14.2	31	<0.1	3.0	0.5	30	0.31	3.7	0.5	26.7	6	0.2	0.3	0.6	<2	0.06	0.024
138115	Rock	0.63	0.2	7.4	16.3	13	<0.1	0.7	0.3	44	0.56	24.8	30.9	17.1	7	<0.1	0.3	0.1	<2	0.07	0.012
REP 138115	QC		0.2	7.9	15.9	14	<0.1	0.6	0.3	43	0.56	25.0	23.6	17.3	7	<0.1	0.3	<0.1	<2	0.05	0.012
Reference Materials																					
STD DS8	Standard		12.4	100.5	127.3	287	1.6	35.1	7.4	578	2.33	23.2	111.4	5.7	54	2.3	4.9	5.7	41	0.69	0.071
STD DS8	Standard		14.3	111.3	134.0	319	1.9	39.1	7.7	623	2.49	26.8	122.0	7.2	72	2.5	6.5	7.4	42	0.73	0.082
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<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	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1	Prep Blank	<0.01	0.1	4.3	3.0	48	<0.1	1.8	3.8	562	2.05	1.4	<0.5	4.6	58	<0.1	<0.1	<0.1	40	0.53	0.080
G1	Prep Blank	<0.01	0.1	2.2	3.7	45	<0.1	2.3	3.8	568	1.98	2.5	2.5	4.2	63	<0.1	<0.1	<0.1	39	0.48	0.073

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Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **PAC Geological Consulting Inc.**
3707 W. 34th Ave.
Vancouver BC V6N 2C9 Canada

Project: CCS 2011
Report Date: August 19, 2011

QUALITY CONTROL REPORT VAN11003592.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
138108	Rock	83	6	0.06	221	0.002	2	0.46	0.010	0.36	<0.1	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2
REP 138108	QC	81	10	0.06	212	0.002	2	0.46	0.009	0.35	<0.1	0.02	0.8	<0.1	<0.05	1	<0.5	<0.2
138115	Rock	48	2	0.02	60	<0.001	1	0.27	0.049	0.12	<0.1	<0.01	0.5	<0.1	<0.05	1	<0.5	<0.2
REP 138115	QC	46	2	0.02	59	0.001	1	0.25	0.050	0.12	<0.1	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	14	124	0.59	262	0.110	1	0.86	0.080	0.36	3.0	0.21	2.1	5.8	0.16	4	3.8	4.8
STD DS8	Standard	15	118	0.61	303	0.125	2	0.94	0.095	0.42	3.4	0.22	2.1	5.9	0.18	5	5.1	5.3
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1	Prep Blank	14	12	0.50	124	0.116	<1	0.85	0.077	0.41	<0.1	<0.01	2.1	0.4	<0.05	5	<0.5	<0.2
G1	Prep Blank	12	8	0.49	137	0.116	1	0.88	0.071	0.42	<0.1	0.01	2.0	0.4	<0.05	5	<0.5	<0.2

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Client: **PAC Geological Consulting Inc.**
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Submitted By: Peter Christopher
Receiving Lab: Canada-Vancouver
Received: July 30, 2011
Report Date: September 03, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS VAN11003591.1

CLIENT JOB INFORMATION

Project: CCS 2011
Shipment ID:
P.O. Number
Number of Samples: 252

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	252	Dry at 60C			VAN
SS80	252	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	241	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: PAC Geological Consulting Inc.
3707 W. 34th Ave.
Vancouver BC V6N 2C9
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" 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: CCS 2011
Report Date: September 03, 2011

CERTIFICATE OF ANALYSIS VAN11003591.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56891+00N 7086+00E	Soil	0.9	11.9	9.9	14	0.1	4.8	1.6	57	1.86	2.1	1.1	0.2	6	0.2	0.2	0.4	46	0.08	0.043	3
L56891+00N 7086+25E	Soil	1.0	13.8	9.6	26	0.1	15.0	5.9	137	2.72	17.3	3.1	0.6	5	0.2	0.2	0.3	64	0.09	0.028	3
L56891+00N 7086+50E	Soil	1.8	7.5	45.4	27	0.2	3.9	1.7	141	0.80	8.5	5.7	0.1	6	0.3	0.3	0.6	34	0.06	0.025	10
L56891+00N 7086+75E	Soil	1.7	9.9	95.7	49	0.2	6.1	3.4	553	1.67	8.7	5.1	0.3	7	0.2	0.3	0.7	39	0.06	0.056	13
L56891+00N 7087+00E	Soil	2.0	18.5	60.9	110	0.4	11.7	10.6	2002	2.17	4.9	1.4	0.2	18	1.0	0.3	0.4	45	0.21	0.098	14
L56891+00N 7087+25E	Soil	1.8	14.9	88.2	42	1.2	6.0	3.8	248	1.21	2.4	1.3	<0.1	16	0.4	0.2	0.3	23	0.17	0.076	13
L56891+00N 7087+50E	Soil	1.7	10.7	44.9	72	0.2	10.0	4.7	160	2.89	6.8	9.1	4.3	6	0.2	0.3	0.3	82	0.09	0.028	10
L56891+00N 7087+75E	Soil	0.4	4.1	9.2	16	0.1	2.6	1.2	51	0.49	3.0	176.3	0.2	8	0.1	<0.1	0.1	19	0.08	0.016	17
L56891+00N 7088+00E	Soil	0.8	10.3	25.8	15	0.3	3.7	1.4	51	1.00	2.1	1.1	<0.1	4	0.2	0.1	0.3	22	0.04	0.066	7
L56891+00N 7088+25E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56891+00N 7088+50E	Soil	0.9	15.6	24.1	30	0.1	8.1	2.8	88	1.42	5.1	28.6	0.2	6	0.2	0.2	0.3	39	0.05	0.065	10
L56891+00N 7088+75E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56891+00N 7089+00E	Soil	1.1	16.9	19.0	57	0.3	17.1	7.7	367	2.84	11.2	17.3	1.5	6	0.2	0.4	0.2	68	0.12	0.042	11
L56891+00N 7089+25E	Soil	1.5	21.7	78.4	57	0.3	10.0	13.2	1045	2.11	6.0	4.2	0.2	8	0.4	0.2	0.3	44	0.09	0.076	11
L56891+00N 7089+50E	Soil	0.9	19.1	14.1	51	0.5	14.9	7.4	541	2.89	6.7	2.4	0.6	8	0.4	0.2	0.2	80	0.16	0.052	7
L56891+00N 7089+75E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56891+00N 7090+00E	Soil	1.1	12.6	16.0	38	0.4	9.3	3.9	193	2.35	7.4	6.5	0.4	8	0.3	0.3	0.2	51	0.13	0.046	8
L56891+00N 7090+25E	Soil	0.8	9.0	22.2	33	0.1	16.3	4.7	155	1.53	7.8	102.4	0.2	8	0.2	0.2	0.3	50	0.15	0.040	7
L56891+00N 7090+50E	Soil	1.0	8.9	8.5	37	0.1	24.3	8.7	220	2.90	31.2	2.4	0.5	7	0.2	0.3	0.2	49	0.12	0.041	5
L56891+00N 7090+75E	Soil	3.5	18.1	31.8	74	0.2	22.3	9.0	762	3.32	33.8	24.8	0.4	9	0.2	1.8	0.6	53	0.12	0.078	11
L56891+00N 7091+00E	Soil	1.4	38.3	15.4	83	1.0	69.6	21.5	690	4.89	25.5	3.2	0.3	6	0.4	0.7	0.2	91	0.04	0.069	8
L56891+00N 7091+25E	Soil	0.7	50.4	14.8	60	0.6	25.7	11.1	455	3.99	19.1	1.2	0.1	15	0.2	0.9	<0.1	107	0.10	0.093	6
L56891+00N 7091+50E	Soil	4.7	93.9	9.1	48	0.8	12.9	1.8	95	4.32	7.0	1.6	1.3	8	0.2	1.1	0.6	67	0.02	0.051	17
L56891+00N 7091+75E	Soil	0.8	7.4	10.4	11	1.0	2.8	1.0	27	0.85	2.0	1.8	0.8	4	0.1	0.3	0.2	41	0.02	0.018	6
L56891+00N 7092+00E	Soil	1.7	111.3	16.3	84	0.3	50.9	50.0	2444	5.45	62.0	15.7	0.4	7	0.4	0.9	0.2	143	0.14	0.093	9
L56891+00N 7092+25E	Soil	0.9	29.5	9.7	44	0.8	16.0	7.2	304	2.87	10.4	1.0	0.4	7	0.2	0.4	0.2	93	0.13	0.049	5
L56891+00N 7092+50E	Soil	1.0	13.4	10.8	30	0.4	6.8	3.0	210	1.78	6.7	12.2	0.1	5	0.2	0.2	0.2	55	0.06	0.051	4
L56891+00N 7092+75E	Soil	0.8	21.8	10.5	42	0.2	21.7	8.0	204	3.12	9.8	5.9	0.9	7	0.3	0.4	0.1	86	0.14	0.040	8
L56891+00N 7093+00E	Soil	0.7	26.2	11.8	18	1.2	8.8	2.8	57	0.82	1.8	0.6	<0.1	7	0.3	0.2	0.2	25	0.10	0.056	13
L56891+00N 7093+25E	Soil	1.1	26.5	11.0	35	0.5	9.1	3.7	153	2.10	5.3	1.9	0.3	6	0.2	0.2	0.2	44	0.09	0.049	6

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3707 W. 34th Ave.
Vancouver BC V6N 2C9 Canada

Project: CCS 2011
Report Date: September 03, 2011

CERTIFICATE OF ANALYSIS VAN11003591.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56891+00N 7086+00E	Soil		17	0.06	40	0.111	2	0.77	0.007	0.04	0.1	0.08	0.7	<0.1	<0.05	9	<0.5	<0.2
L56891+00N 7086+25E	Soil		37	0.21	47	0.110	<1	0.82	0.009	0.03	0.3	0.04	2.9	<0.1	<0.05	10	<0.5	<0.2
L56891+00N 7086+50E	Soil		10	0.04	67	0.052	2	0.41	0.010	0.02	0.1	0.06	0.5	0.1	<0.05	6	<0.5	<0.2
L56891+00N 7086+75E	Soil		12	0.12	46	0.039	<1	0.93	0.009	0.03	0.1	0.04	0.5	<0.1	<0.05	8	<0.5	<0.2
L56891+00N 7087+00E	Soil		22	0.29	68	0.035	<1	1.63	0.010	0.05	<0.1	0.05	0.7	<0.1	<0.05	9	0.7	<0.2
L56891+00N 7087+25E	Soil		9	0.10	49	0.023	<1	1.54	0.011	0.03	<0.1	0.07	0.3	<0.1	<0.05	6	0.6	<0.2
L56891+00N 7087+50E	Soil		24	0.22	57	0.214	<1	0.98	0.009	0.05	0.2	0.03	1.6	<0.1	<0.05	11	<0.5	<0.2
L56891+00N 7087+75E	Soil		5	0.02	52	0.012	2	0.22	0.008	0.02	<0.1	0.04	0.2	<0.1	<0.05	3	<0.5	<0.2
L56891+00N 7088+00E	Soil		7	0.04	24	0.023	<1	0.50	0.008	0.06	<0.1	0.05	0.2	<0.1	<0.05	4	<0.5	<0.2
L56891+00N 7088+25E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56891+00N 7088+50E	Soil		21	0.15	41	0.044	<1	1.14	0.007	0.04	<0.1	0.09	0.6	<0.1	<0.05	7	<0.5	<0.2
L56891+00N 7088+75E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56891+00N 7089+00E	Soil		38	0.41	70	0.145	1	1.43	0.006	0.04	0.2	0.06	1.9	<0.1	<0.05	7	<0.5	<0.2
L56891+00N 7089+25E	Soil		19	0.17	70	0.052	1	1.44	0.008	0.03	0.1	0.05	0.7	<0.1	<0.05	8	<0.5	<0.2
L56891+00N 7089+50E	Soil		38	0.32	91	0.155	<1	1.19	0.007	0.04	0.1	0.06	1.6	<0.1	<0.05	7	<0.5	<0.2
L56891+00N 7089+75E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56891+00N 7090+00E	Soil		20	0.16	70	0.083	<1	0.95	0.007	0.05	0.1	0.07	0.9	<0.1	<0.05	7	<0.5	<0.2
L56891+00N 7090+25E	Soil		52	0.30	81	0.055	<1	0.68	0.010	0.03	0.1	0.05	1.1	<0.1	<0.05	6	<0.5	<0.2
L56891+00N 7090+50E	Soil		58	0.17	55	0.059	<1	1.65	0.014	0.03	0.1	0.06	4.8	<0.1	<0.05	8	<0.5	<0.2
L56891+00N 7090+75E	Soil		37	0.18	136	0.054	1	0.57	0.009	0.04	0.2	0.03	1.3	0.1	<0.05	5	0.5	<0.2
L56891+00N 7091+00E	Soil		122	0.33	697	0.017	<1	1.45	0.007	0.02	<0.1	0.04	5.0	<0.1	<0.05	5	<0.5	<0.2
L56891+00N 7091+25E	Soil		22	0.32	1440	0.027	<1	1.27	0.010	0.04	<0.1	0.11	2.2	<0.1	<0.05	6	0.6	<0.2
L56891+00N 7091+50E	Soil		25	0.05	396	0.043	<1	0.76	0.007	0.03	<0.1	0.06	1.3	0.1	<0.05	7	7.2	<0.2
L56891+00N 7091+75E	Soil		9	0.04	83	0.096	<1	0.44	0.011	0.02	<0.1	0.03	0.7	<0.1	<0.05	6	<0.5	<0.2
L56891+00N 7092+00E	Soil		83	1.29	580	0.062	1	2.87	0.009	0.03	0.1	0.07	7.9	<0.1	<0.05	9	0.8	<0.2
L56891+00N 7092+25E	Soil		37	0.34	217	0.170	<1	0.99	0.011	0.02	0.1	0.05	2.0	<0.1	<0.05	7	<0.5	<0.2
L56891+00N 7092+50E	Soil		18	0.12	93	0.090	<1	0.71	0.011	0.02	0.1	0.08	0.7	<0.1	<0.05	7	<0.5	<0.2
L56891+00N 7092+75E	Soil		43	0.44	134	0.183	<1	1.11	0.012	0.02	0.1	0.06	2.3	<0.1	<0.05	5	<0.5	<0.2
L56891+00N 7093+00E	Soil		16	0.12	95	0.059	<1	1.27	0.015	0.02	<0.1	0.04	0.8	<0.1	<0.05	6	0.6	<0.2
L56891+00N 7093+25E	Soil		20	0.15	84	0.084	<1	1.08	0.011	0.03	0.1	0.08	1.6	<0.1	<0.05	7	0.9	<0.2

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Vancouver BC V6N 2C9 Canada

Project: CCS 2011
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CERTIFICATE OF ANALYSIS VAN11003591.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56891+00N 7093+75E	Soil		1.0	24.4	11.7	47	0.4	12.4	7.5	283	2.38	5.4	4.2	0.3	9	0.4	0.2	0.2	57	0.18	0.045	7
L56891+00N 7094+00E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56892+00N 7086+00E	Soil		0.8	39.0	9.3	34	0.4	17.4	17.7	803	1.52	22.1	<0.5	<0.1	15	0.4	0.2	0.1	34	0.84	0.120	11
L56892+00N 7086+25E	Soil		0.7	47.3	11.2	70	0.2	21.1	17.1	1149	2.11	8.9	1.0	0.2	12	0.3	0.2	0.2	37	0.46	0.072	8
L56892+00N 7086+50E	Soil		0.6	11.5	12.8	27	0.4	8.0	3.3	102	1.60	2.8	2.8	0.3	6	0.2	0.2	0.2	56	0.10	0.042	4
L56892+00N 7086+75E	Soil		1.0	21.2	10.0	40	0.3	12.4	6.5	387	3.23	3.8	2.3	0.4	7	0.3	0.2	0.2	76	0.10	0.050	5
L56892+00N 7087+00E	Soil		1.5	46.8	15.8	59	0.3	34.1	18.8	616	3.72	13.1	15.5	1.2	9	0.2	0.4	0.3	84	0.26	0.059	7
L56892+00N 7087+25E	Soil		0.9	50.6	36.6	39	0.5	14.1	5.0	398	1.07	3.9	1.5	<0.1	12	0.2	0.3	0.5	33	0.22	0.136	11
L56892+00N 7087+50E	Soil		0.7	11.5	35.6	17	<0.1	3.7	1.3	65	0.67	3.5	15.7	<0.1	5	0.4	0.2	0.5	28	0.04	0.033	13
L56892+00N 7087+75E	Soil		0.4	7.4	13.3	14	0.2	2.1	0.8	36	0.45	2.1	18.9	0.1	6	0.1	<0.1	0.2	16	0.05	0.030	15
L56892+00N 7088+00E	Soil		1.3	10.4	67.5	25	0.3	5.3	1.9	62	1.49	6.2	22.8	1.0	7	0.2	0.3	0.5	45	0.08	0.044	12
L56892+00N 7088+25E	Soil		1.8	15.0	45.0	28	0.3	5.1	2.1	146	3.06	17.1	53.5	1.5	5	0.2	0.3	0.5	46	0.04	0.045	13
L56892+00N 7088+50E	Soil		0.6	7.5	16.6	17	0.1	1.9	0.6	46	1.02	2.0	8.9	0.5	4	0.1	0.2	0.6	35	0.04	0.022	23
L56892+00N 7088+75E	Soil		1.4	6.4	17.6	33	<0.1	3.8	2.8	79	1.78	5.8	2.2	1.4	7	0.2	0.5	0.5	40	0.08	0.027	23
L56892+00N 7089+00E	Soil		0.9	20.5	21.1	36	0.2	10.5	7.9	1079	2.48	16.3	37.4	0.4	5	1.1	0.4	0.4	72	0.06	0.062	5
L56892+00N 7089+25E	Soil		0.7	11.3	13.5	29	0.3	7.6	3.1	176	1.89	3.0	1.2	0.2	7	0.3	0.2	0.3	58	0.10	0.050	6
L56892+00N 7089+50E	Soil		1.0	12.8	13.8	30	0.3	7.1	4.5	692	1.98	7.0	3.1	0.2	5	0.2	0.2	0.3	51	0.05	0.043	5
L56892+00N 7089+75E	Soil		0.9	12.1	17.2	35	0.5	7.8	3.8	243	1.56	5.7	2.2	<0.1	11	0.3	0.2	0.3	38	0.14	0.062	6
L56892+00N 7090+00E	Soil		1.4	17.8	17.4	35	0.5	8.0	3.8	242	2.65	10.6	5.9	0.2	6	0.5	0.3	0.3	40	0.09	0.069	5
L56892+00N 7090+25E	Soil		1.3	12.2	19.4	48	0.5	10.5	5.2	294	2.60	13.7	4.8	0.7	8	0.3	0.4	0.3	58	0.12	0.052	13
L56892+00N 7090+50E	Soil		1.3	12.5	18.8	50	0.5	10.7	5.8	350	2.62	13.8	10.2	0.7	8	0.2	0.4	0.4	59	0.12	0.053	13
L56892+00N 7090+75E	Soil		1.0	14.6	17.2	43	0.4	10.8	6.5	239	2.28	11.5	4.6	0.2	13	0.3	0.3	0.3	52	0.22	0.051	8
L56892+00N 7091+00E	Soil		0.9	12.3	13.9	41	0.2	11.6	5.4	238	2.28	6.2	3.3	1.1	10	0.1	0.3	0.3	79	0.20	0.044	7
L56892+00N 7091+25E	Soil		0.9	13.0	11.0	24	0.4	6.8	2.7	99	1.62	4.9	2.5	0.2	5	0.2	0.2	0.3	44	0.07	0.038	7
L56892+00N 7091+50E	Soil		0.8	9.2	11.5	24	0.2	7.2	2.7	85	1.93	8.9	2.9	0.2	7	0.2	0.2	0.3	47	0.09	0.041	5
L56892+00N 7091+75E	Soil		0.7	41.5	11.5	78	0.8	17.2	7.4	358	1.87	11.3	2.4	0.1	34	0.5	0.2	0.3	32	1.14	0.083	8
L56892+00N 7092+00E	Soil		1.0	22.8	8.8	58	0.3	35.7	12.9	304	3.86	11.6	5.8	1.5	6	0.3	0.5	0.2	86	0.15	0.047	10
L56892+00N 7092+25E	Soil		1.4	25.6	12.2	40	1.8	12.0	3.9	170	3.33	5.9	5.9	0.5	10	0.5	0.6	0.3	77	0.10	0.044	7
L56892+00N 7092+50E	Soil		1.5	28.9	15.1	50	1.1	16.9	11.1	692	2.35	9.0	4.7	0.5	14	0.6	0.9	0.3	60	0.20	0.045	10
L56892+00N 7092+75E	Soil		1.2	40.7	15.1	52	0.2	21.5	7.2	187	3.00	17.2	22.9	2.0	8	0.1	1.0	0.2	94	0.13	0.039	10

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Project: CCS 2011
Report Date: September 03, 2011

CERTIFICATE OF ANALYSIS VAN11003591.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56891+00N 7093+75E	Soil	26	0.22	189	0.100	<1	1.26	0.012	0.02	0.1	0.09	1.5	<0.1	<0.05	8	0.6	<0.2
L56891+00N 7094+00E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56892+00N 7086+00E	Soil	28	0.17	43	0.033	2	2.91	0.008	0.03	<0.1	0.10	1.8	<0.1	<0.05	6	1.7	<0.2
L56892+00N 7086+25E	Soil	25	0.24	51	0.064	1	2.08	0.012	0.04	0.1	0.05	1.5	<0.1	<0.05	8	<0.5	<0.2
L56892+00N 7086+50E	Soil	20	0.13	65	0.133	<1	0.58	0.009	0.03	0.1	0.05	1.0	<0.1	<0.05	6	<0.5	<0.2
L56892+00N 7086+75E	Soil	33	0.24	80	0.169	<1	1.27	0.009	0.03	<0.1	0.05	1.7	<0.1	<0.05	9	<0.5	<0.2
L56892+00N 7087+00E	Soil	61	0.82	75	0.186	<1	2.33	0.008	0.04	0.2	0.07	3.6	<0.1	<0.05	7	1.0	<0.2
L56892+00N 7087+25E	Soil	16	0.13	107	0.016	2	1.46	0.008	0.05	0.2	0.20	0.4	<0.1	0.09	5	0.8	<0.2
L56892+00N 7087+50E	Soil	10	0.04	41	0.024	2	0.53	0.006	0.02	<0.1	0.04	0.2	<0.1	<0.05	5	<0.5	<0.2
L56892+00N 7087+75E	Soil	4	0.02	46	0.005	<1	0.41	0.007	0.03	<0.1	0.03	0.2	<0.1	<0.05	4	<0.5	<0.2
L56892+00N 7088+00E	Soil	15	0.11	68	0.082	1	0.64	0.007	0.03	0.1	0.08	0.7	<0.1	<0.05	6	<0.5	<0.2
L56892+00N 7088+25E	Soil	14	0.13	31	0.074	<1	1.68	0.008	0.02	0.2	0.07	0.7	<0.1	<0.05	11	0.6	<0.2
L56892+00N 7088+50E	Soil	4	0.02	37	0.019	<1	0.67	0.007	0.02	0.1	0.04	0.4	<0.1	<0.05	6	<0.5	<0.2
L56892+00N 7088+75E	Soil	9	0.04	46	0.039	<1	0.36	0.005	0.02	<0.1	0.02	0.5	0.1	<0.05	4	<0.5	<0.2
L56892+00N 7089+00E	Soil	32	0.24	46	0.134	<1	0.86	0.008	0.04	<0.1	0.05	1.2	<0.1	0.06	8	<0.5	<0.2
L56892+00N 7089+25E	Soil	22	0.13	57	0.095	<1	0.65	0.009	0.03	<0.1	0.07	0.6	<0.1	<0.05	6	<0.5	<0.2
L56892+00N 7089+50E	Soil	19	0.13	57	0.089	<1	0.88	0.010	0.02	<0.1	0.04	0.7	<0.1	<0.05	8	<0.5	<0.2
L56892+00N 7089+75E	Soil	14	0.09	124	0.066	1	0.55	0.009	0.03	0.1	0.06	0.4	<0.1	0.05	6	<0.5	<0.2
L56892+00N 7090+00E	Soil	17	0.11	43	0.057	<1	1.18	0.008	0.03	<0.1	0.07	0.6	<0.1	0.07	9	<0.5	<0.2
L56892+00N 7090+25E	Soil	18	0.14	92	0.071	<1	0.82	0.009	0.03	<0.1	0.06	1.0	<0.1	<0.05	7	<0.5	<0.2
L56892+00N 7090+50E	Soil	19	0.16	89	0.074	1	0.87	0.008	0.03	<0.1	0.06	1.0	<0.1	<0.05	7	<0.5	<0.2
L56892+00N 7090+75E	Soil	21	0.19	138	0.073	<1	1.13	0.014	0.04	<0.1	0.06	1.2	<0.1	0.06	8	<0.5	<0.2
L56892+00N 7091+00E	Soil	28	0.26	133	0.189	<1	0.71	0.007	0.05	0.2	0.07	1.4	<0.1	<0.05	6	<0.5	<0.2
L56892+00N 7091+25E	Soil	21	0.15	64	0.084	<1	1.28	0.014	0.02	0.1	0.06	0.9	<0.1	<0.05	7	<0.5	<0.2
L56892+00N 7091+50E	Soil	17	0.11	88	0.074	<1	0.69	0.011	0.02	<0.1	0.04	0.8	<0.1	<0.05	7	<0.5	<0.2
L56892+00N 7091+75E	Soil	39	0.26	204	0.038	1	1.41	0.018	0.03	<0.1	0.12	2.8	<0.1	0.10	6	1.0	<0.2
L56892+00N 7092+00E	Soil	71	0.81	85	0.159	<1	2.13	0.008	0.03	0.1	0.06	3.2	<0.1	<0.05	6	0.9	<0.2
L56892+00N 7092+25E	Soil	22	0.16	434	0.119	<1	0.97	0.013	0.02	0.1	0.06	1.3	<0.1	<0.05	10	0.6	<0.2
L56892+00N 7092+50E	Soil	27	0.23	887	0.058	2	0.98	0.013	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
L56892+00N 7092+75E	Soil	38	0.44	172	0.151	<1	0.97	0.008	0.03	0.1	0.05	2.6	<0.1	<0.05	6	<0.5	<0.2

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Project: CCS 2011
Report Date: September 03, 2011

CERTIFICATE OF ANALYSIS VAN11003591.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56892+00N 7093+00E	Soil		0.7	78.5	15.1	84	<0.1	57.8	48.5	1540	5.06	37.0	35.4	2.3	13	0.2	0.8	0.2	124	0.40	0.066	9
L56892+00N 7093+25E	Soil		1.8	62.4	11.6	48	0.3	21.2	9.9	274	4.50	17.0	5.1	1.1	9	0.2	1.0	0.2	95	0.18	0.065	6
L56892+00N 7093+50E	Soil		1.0	13.7	30.3	40	0.2	9.3	3.6	222	1.68	8.1	45.6	0.3	10	0.3	0.5	0.3	81	0.26	0.040	7
L56892+00N 7093+75E	Soil		1.3	42.8	19.3	63	0.3	14.6	11.5	537	2.00	7.1	1.2	0.1	11	0.4	0.4	0.3	49	0.23	0.098	5
L56892+00N 7094+00E	Soil		1.2	140.7	13.2	60	0.6	17.2	41.6	746	2.22	5.1	1.5	0.1	7	0.7	0.3	0.2	45	0.15	0.096	21
L56893+00N 7086+00E	Soil		1.1	55.9	12.6	92	0.3	41.1	20.9	393	4.16	19.3	2.9	0.9	13	0.3	0.3	0.3	71	0.49	0.057	9
L56893+00N 7086+25E	Soil		0.4	39.6	10.6	20	0.4	14.6	2.3	108	0.92	7.7	2.0	<0.1	41	0.6	0.2	0.2	20	1.07	0.057	6
L56893+00N 7086+50E	Soil		0.8	13.8	9.6	19	0.6	4.6	2.1	92	1.65	2.4	5.5	0.8	5	0.1	0.1	0.3	71	0.05	0.019	4
L56893+00N 7086+75E	Soil		0.9	10.3	13.8	34	0.1	8.0	3.2	229	1.76	2.8	5.5	0.6	11	0.2	0.2	0.3	68	0.23	0.033	6
L56893+00N 7087+00E	Soil		0.8	13.5	13.7	18	0.3	4.9	3.3	242	0.91	1.9	2.2	<0.1	7	0.3	0.2	0.3	36	0.09	0.042	6
L56893+00N 7087+25E	Soil		0.9	13.6	15.1	35	0.4	10.5	5.4	330	2.39	5.3	2.9	0.5	9	0.4	0.3	0.3	71	0.15	0.049	8
L56893+00N 7087+50E	Soil		0.5	6.8	19.2	21	0.2	3.0	0.9	184	0.57	1.7	2.8	0.2	9	0.2	0.1	0.4	22	0.11	0.029	13
L56893+00N 7087+75E	Soil		0.7	4.2	26.5	18	0.2	2.4	0.7	71	0.31	3.5	112.6	0.2	8	0.4	0.3	1.0	16	0.14	0.016	16
L56893+00N 7088+00E	Soil		0.7	11.2	18.7	20	0.5	3.4	1.3	33	0.44	2.5	13.1	0.2	11	0.7	0.3	0.6	18	0.10	0.028	11
L56893+00N 7088+25E	Soil		2.1	47.7	47.7	75	0.9	15.4	10.8	352	2.93	15.1	8.2	0.4	11	1.1	0.3	0.4	30	0.13	0.079	15
L56893+00N 7088+50E	Soil		1.3	14.7	28.1	67	0.2	12.5	7.5	572	2.37	54.9	153.0	1.4	10	<0.1	0.6	0.3	39	0.19	0.043	19
L56893+00N 7088+75E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56893+00N 7089+00E	Soil		0.9	8.8	21.4	23	0.2	4.8	2.7	165	2.01	12.2	11.4	0.9	3	0.1	0.2	0.3	39	0.03	0.026	19
L56893+00N 7089+25E	Soil		1.0	26.1	30.1	69	0.4	19.1	14.7	807	3.23	23.5	172.2	1.5	11	0.3	0.9	0.3	60	0.24	0.057	12
L56893+00N 7089+50E	Soil		1.2	31.9	22.3	65	1.1	19.1	10.7	1225	1.90	8.4	3.4	<0.1	14	0.5	0.2	0.4	30	0.17	0.077	13
L56893+00N 7089+75E	Soil		1.2	20.6	28.9	56	0.3	11.2	6.4	335	2.51	21.8	5.5	<0.1	8	0.4	0.4	0.5	53	0.09	0.059	12
L56893+00N 7090+00E	Soil		0.5	20.3	5.6	62	0.6	36.3	14.3	404	3.25	6.8	2.5	<0.1	16	0.3	0.3	<0.1	99	0.23	0.071	5
L56893+00N 7090+25E	Soil		0.9	7.2	14.0	15	0.6	5.0	1.5	45	1.19	3.9	9.2	0.1	4	0.1	0.3	0.2	58	0.02	0.028	6
L56893+00N 7090+50E	Soil		0.7	51.1	6.8	62	0.2	37.2	25.1	1034	4.77	15.1	4.6	0.4	12	0.2	0.6	<0.1	139	0.27	0.064	4
L56893+00N 7090+75E	Soil		0.8	16.7	10.1	41	0.2	14.6	6.3	300	2.75	7.8	31.8	<0.1	8	0.2	0.4	0.1	77	0.09	0.050	6
L56893+00N 7091+00E	Soil		0.7	10.3	10.9	13	0.1	6.1	2.0	57	1.16	2.7	1.4	<0.1	5	0.1	0.2	0.2	49	0.06	0.037	5
L56893+00N 7091+25E	Soil		1.2	42.5	10.1	54	0.4	29.8	17.6	770	3.84	15.3	5.4	0.3	7	0.2	0.4	0.1	105	0.11	0.069	7
L56893+00N 7091+50E	Soil		0.8	21.4	9.9	58	0.2	23.9	9.1	315	3.19	15.1	10.1	1.3	8	0.2	0.5	<0.1	83	0.22	0.046	9
L56893+00N 7091+75E	Soil		1.0	28.7	11.4	54	0.6	21.8	11.2	839	3.28	10.7	105.0	0.5	6	0.2	0.4	0.1	87	0.11	0.054	7
L56893+00N 7092+00E	Soil		0.7	56.1	8.9	23	1.9	16.3	3.7	119	1.54	4.8	4.8	<0.1	9	0.4	0.2	0.2	33	0.19	0.095	21

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Project: CCS 2011
Report Date: September 03, 2011

CERTIFICATE OF ANALYSIS VAN11003591.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56892+00N 7093+00E	Soil	103	1.58	574	0.191	1	2.38	0.008	0.04	0.1	0.04	12.7	<0.1	<0.05	7	<0.5	<0.2
L56892+00N 7093+25E	Soil	41	0.52	238	0.224	1	1.61	0.009	0.03	0.2	0.07	2.6	<0.1	<0.05	6	0.6	<0.2
L56892+00N 7093+50E	Soil	27	0.16	128	0.137	3	0.49	0.009	0.03	<0.1	0.08	1.1	<0.1	<0.05	6	<0.5	<0.2
L56892+00N 7093+75E	Soil	21	0.21	220	0.090	<1	0.67	0.011	0.03	0.1	0.10	1.0	<0.1	0.14	5	<0.5	<0.2
L56892+00N 7094+00E	Soil	24	0.23	106	0.066	2	1.57	0.013	0.04	0.1	0.07	1.8	<0.1	0.12	7	2.3	<0.2
L56893+00N 7086+00E	Soil	52	0.56	84	0.148	2	2.96	0.017	0.04	0.1	0.10	3.5	<0.1	0.06	12	0.8	<0.2
L56893+00N 7086+25E	Soil	11	0.13	71	0.039	2	0.83	0.016	0.03	<0.1	0.10	0.8	<0.1	0.06	4	0.7	<0.2
L56893+00N 7086+50E	Soil	18	0.09	43	0.196	<1	0.60	0.011	0.02	<0.1	0.04	0.8	<0.1	<0.05	6	<0.5	<0.2
L56893+00N 7086+75E	Soil	22	0.17	129	0.190	1	0.64	0.011	0.04	0.1	0.07	1.1	<0.1	<0.05	8	<0.5	<0.2
L56893+00N 7087+00E	Soil	15	0.11	54	0.085	<1	0.69	0.013	0.03	<0.1	0.07	0.4	<0.1	<0.05	7	<0.5	<0.2
L56893+00N 7087+25E	Soil	29	0.29	56	0.145	1	1.01	0.010	0.04	<0.1	0.05	1.2	<0.1	<0.05	7	<0.5	<0.2
L56893+00N 7087+50E	Soil	8	0.04	77	0.038	2	0.38	0.009	0.03	<0.1	0.06	0.2	0.1	<0.05	5	<0.5	<0.2
L56893+00N 7087+75E	Soil	6	0.03	45	0.021	3	0.27	0.011	0.03	<0.1	0.03	0.5	<0.1	0.08	4	<0.5	<0.2
L56893+00N 7088+00E	Soil	5	0.02	75	0.008	2	0.30	0.010	0.02	<0.1	0.02	0.4	<0.1	0.08	2	<0.5	<0.2
L56893+00N 7088+25E	Soil	22	0.16	68	0.036	2	1.88	0.008	0.05	0.1	0.10	1.0	<0.1	0.09	7	1.1	<0.2
L56893+00N 7088+50E	Soil	17	0.17	128	0.033	2	0.67	0.003	0.07	0.1	0.04	0.9	<0.1	<0.05	3	<0.5	<0.2
L56893+00N 7088+75E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56893+00N 7089+00E	Soil	13	0.08	46	0.046	2	0.87	0.005	0.03	<0.1	0.02	0.6	0.1	<0.05	5	<0.5	<0.2
L56893+00N 7089+25E	Soil	39	0.42	78	0.125	2	1.87	0.005	0.04	0.1	0.08	2.7	<0.1	<0.05	6	0.8	<0.2
L56893+00N 7089+50E	Soil	19	0.21	103	0.048	2	1.61	0.011	0.03	<0.1	0.06	1.5	<0.1	0.05	10	0.7	<0.2
L56893+00N 7089+75E	Soil	17	0.07	168	0.038	2	0.50	0.004	0.03	<0.1	0.08	0.6	<0.1	<0.05	5	0.9	<0.2
L56893+00N 7090+00E	Soil	85	0.74	304	0.008	1	1.79	0.004	0.05	<0.1	0.04	2.8	<0.1	0.05	6	0.7	<0.2
L56893+00N 7090+25E	Soil	12	0.05	73	0.066	1	0.48	0.008	0.02	<0.1	0.04	0.5	<0.1	<0.05	7	<0.5	<0.2
L56893+00N 7090+50E	Soil	85	1.21	314	0.218	2	2.08	0.008	0.02	<0.1	0.07	5.1	<0.1	<0.05	8	0.5	<0.2
L56893+00N 7090+75E	Soil	25	0.27	181	0.094	<1	1.00	0.007	0.02	<0.1	0.04	1.2	<0.1	<0.05	7	<0.5	<0.2
L56893+00N 7091+00E	Soil	19	0.14	72	0.098	2	0.84	0.009	0.02	<0.1	0.03	0.7	<0.1	0.06	7	<0.5	<0.2
L56893+00N 7091+25E	Soil	55	0.65	557	0.107	2	2.07	0.011	0.03	0.1	0.07	4.3	<0.1	0.05	9	<0.5	<0.2
L56893+00N 7091+50E	Soil	44	0.58	191	0.132	1	1.36	0.008	0.03	0.2	0.06	2.8	<0.1	<0.05	7	<0.5	<0.2
L56893+00N 7091+75E	Soil	45	0.56	145	0.121	<1	1.46	0.009	0.02	0.1	0.04	2.5	<0.1	<0.05	7	<0.5	<0.2
L56893+00N 7092+00E	Soil	17	0.18	117	0.029	2	2.12	0.014	0.02	<0.1	0.06	1.7	<0.1	0.12	6	1.3	<0.2

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		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56893+00N 7092+25E	Soil		1.4	19.2	11.7	32	0.4	11.9	4.7	112	2.30	8.4	11.2	0.5	6	0.3	0.4	0.2	78	0.10	0.038	7
L56893+00N 7092+50E	Soil		1.3	24.4	11.3	59	0.2	16.9	12.2	579	3.25	9.6	4.4	0.8	7	0.2	0.4	0.2	82	0.10	0.053	7
L56893+00N 7092+75E	Soil		1.2	15.4	12.0	33	0.3	9.5	3.6	174	2.07	6.0	2.3	0.2	10	0.3	0.2	0.2	51	0.19	0.049	5
L56893+00N 7093+00E	Soil		0.9	16.3	10.7	41	0.4	12.5	7.0	392	3.02	9.8	3.7	0.1	7	0.3	0.5	0.2	54	0.11	0.060	5
L56893+00N 7093+25E	Soil		1.4	29.4	14.3	31	0.3	9.6	4.9	156	2.48	12.2	8.1	0.4	7	0.2	0.8	0.2	55	0.11	0.036	7
L56893+00N 7093+50E	Soil		1.1	36.7	12.4	66	0.1	31.3	22.8	1166	3.60	30.2	4.5	0.6	9	0.3	0.7	0.1	61	0.19	0.058	10
L56893+00N 7093+75E	Soil		1.0	27.8	12.0	68	0.3	23.1	9.9	458	3.48	12.3	5.1	1.3	7	0.3	0.6	0.1	79	0.15	0.044	8
L56893+00N 7094+00E	Soil		1.5	30.0	15.2	58	0.2	17.1	10.5	646	3.14	9.2	3.5	0.5	9	0.2	0.5	0.3	78	0.17	0.065	6
L56894+00N 7086+00E	Soil		0.5	12.3	8.5	14	<0.1	3.1	1.0	22	0.44	0.9	1.1	0.3	4	0.2	0.1	0.3	25	0.05	0.010	4
L56894+00N 7086+25E	Soil		1.1	12.7	16.2	24	0.4	5.2	2.0	99	1.96	3.5	5.3	0.6	4	0.1	0.5	0.4	51	0.03	0.032	6
L56894+00N 7086+50E	Soil		0.8	15.6	9.6	31	0.5	8.0	5.2	706	2.15	3.3	3.2	0.4	4	0.3	0.2	0.2	53	0.04	0.034	7
L56894+00N 7086+75E	Soil		0.9	9.1	10.9	13	0.3	3.3	1.5	78	1.32	1.5	<0.5	<0.1	4	0.2	<0.1	0.3	35	0.04	0.040	4
L56894+00N 7087+00E	Soil		0.8	12.9	9.5	21	0.4	6.5	3.1	149	2.01	2.6	2.0	0.2	5	0.1	0.2	0.3	55	0.07	0.046	5
L56894+00N 7087+25E	Soil		1.4	61.9	16.5	62	0.7	24.1	33.0	1261	3.57	12.7	2.5	1.3	8	0.3	0.5	0.3	75	0.13	0.053	19
L56894+00N 7087+50E	Soil		1.9	43.9	36.0	65	0.9	17.8	6.1	184	3.34	16.7	2.5	1.2	10	0.4	0.4	0.5	64	0.16	0.051	16
L56894+00N 7087+75E	Soil		1.9	74.8	83.7	89	1.7	25.8	8.9	216	1.86	12.8	5.8	0.4	16	0.5	0.5	0.5	43	0.23	0.079	40
L56894+00N 7088+00E	Soil		0.6	5.3	20.8	23	0.1	2.3	0.9	45	0.46	1.9	5.3	0.3	7	0.2	0.1	0.4	24	0.11	0.018	18
L56894+00N 7088+25E	Soil		1.2	27.2	16.9	58	0.2	20.2	7.8	191	3.54	31.3	12.6	1.8	5	0.2	0.7	0.4	61	0.07	0.042	15
L56894+00N 7088+50E	Soil		0.6	13.6	10.5	24	0.3	7.5	2.8	134	1.80	2.9	7.3	0.5	5	<0.1	0.2	0.4	76	0.09	0.028	6
L56894+00N 7088+75E	Soil		0.8	13.3	11.5	20	0.2	4.8	1.6	117	1.47	2.8	<0.5	<0.1	5	0.1	0.2	0.5	34	0.06	0.054	4
L56894+00N 7089+00E	Soil		0.5	11.7	15.6	27	0.2	4.9	1.4	119	0.67	1.5	<0.5	<0.1	12	0.2	0.1	0.5	19	0.20	0.069	4
L56894+00N 7089+25E	Soil		0.7	10.9	11.4	14	<0.1	6.4	2.0	49	1.17	2.7	1.6	0.1	5	0.2	0.2	0.4	49	0.05	0.030	6
L56894+00N 7089+50E	Soil		0.6	11.1	10.4	24	<0.1	6.4	2.9	79	1.34	3.0	3.1	0.4	9	0.1	0.2	0.3	57	0.16	0.028	6
L56894+00N 7089+75E	Soil		0.7	16.0	10.4	14	0.8	7.8	2.5	59	1.38	3.1	3.1	0.2	6	0.2	0.1	0.2	41	0.07	0.051	7
L56894+00N 7090+00E	Soil		0.7	6.0	9.4	8	0.2	5.7	1.8	36	0.97	2.4	2.4	0.2	3	<0.1	0.2	0.2	43	0.04	0.027	6
L56894+00N 7090+25E	Soil		1.1	11.3	13.8	17	0.4	8.3	3.3	58	1.99	6.0	3.0	0.3	6	0.3	0.2	0.3	54	0.07	0.048	6
L56894+00N 7090+50E	Soil		0.9	10.5	11.5	28	0.3	10.8	4.5	121	2.14	5.8	3.0	0.5	10	0.2	0.3	0.3	82	0.20	0.037	4
L56894+00N 7090+75E	Soil		0.7	18.8	10.2	39	0.4	14.5	6.6	276	2.59	7.2	1.2	0.3	7	0.4	0.4	0.2	69	0.07	0.045	5
L56894+00N 7091+00E	Soil		0.6	12.0	12.6	13	0.5	4.2	1.3	35	0.68	2.1	21.9	<0.1	4	0.1	0.1	0.3	32	0.03	0.027	5
L56894+00N 7091+25E	Soil		0.8	19.2	12.5	55	0.2	19.2	8.0	453	2.82	10.0	4.2	0.4	7	0.2	0.4	0.2	72	0.12	0.044	7

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	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56893+00N 7092+25E	Soil	29	0.27	96	0.147	2	1.08	0.010	0.02	0.1	0.03	2.0	<0.1	0.07	7	<0.5	<0.2
L56893+00N 7092+50E	Soil	33	0.33	203	0.173	<1	1.28	0.010	0.02	0.1	0.03	2.2	<0.1	0.05	7	<0.5	<0.2
L56893+00N 7092+75E	Soil	18	0.16	136	0.092	1	0.91	0.011	0.03	<0.1	0.04	0.9	<0.1	0.06	8	0.5	<0.2
L56893+00N 7093+00E	Soil	17	0.14	110	0.063	<1	0.72	0.009	0.03	0.1	0.04	1.2	<0.1	<0.05	8	0.7	<0.2
L56893+00N 7093+25E	Soil	20	0.15	84	0.103	<1	1.41	0.011	0.02	0.1	0.04	1.8	<0.1	<0.05	9	0.8	<0.2
L56893+00N 7093+50E	Soil	40	0.61	194	0.080	2	1.54	0.009	0.03	0.1	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
L56893+00N 7093+75E	Soil	40	0.51	169	0.190	<1	1.42	0.008	0.03	0.1	0.04	2.5	<0.1	<0.05	6	<0.5	<0.2
L56893+00N 7094+00E	Soil	32	0.32	190	0.147	2	1.02	0.009	0.04	0.1	0.08	1.8	<0.1	0.05	8	0.7	<0.2
L56894+00N 7086+00E	Soil	13	0.04	56	0.072	1	0.37	0.010	0.01	<0.1	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
L56894+00N 7086+25E	Soil	12	0.05	48	0.093	2	0.67	0.009	0.02	0.1	0.05	0.6	<0.1	<0.05	9	<0.5	<0.2
L56894+00N 7086+50E	Soil	22	0.16	51	0.115	<1	1.30	0.011	0.02	<0.1	0.05	1.3	<0.1	<0.05	8	<0.5	<0.2
L56894+00N 7086+75E	Soil	13	0.06	42	0.062	1	0.74	0.013	0.02	<0.1	0.03	0.3	<0.1	<0.05	8	<0.5	<0.2
L56894+00N 7087+00E	Soil	20	0.10	51	0.079	<1	0.89	0.009	0.04	<0.1	0.03	0.8	<0.1	0.06	7	0.6	<0.2
L56894+00N 7087+25E	Soil	57	0.42	129	0.138	<1	2.63	0.010	0.04	0.1	0.09	5.0	<0.1	0.08	8	0.7	<0.2
L56894+00N 7087+50E	Soil	41	0.32	143	0.095	2	2.34	0.014	0.06	0.2	0.11	2.7	<0.1	0.06	10	<0.5	<0.2
L56894+00N 7087+75E	Soil	45	0.41	161	0.037	2	2.97	0.014	0.05	0.2	0.13	2.5	0.1	0.10	7	0.7	<0.2
L56894+00N 7088+00E	Soil	6	0.02	56	0.034	2	0.38	0.008	0.02	<0.1	0.03	0.3	<0.1	<0.05	5	<0.5	<0.2
L56894+00N 7088+25E	Soil	31	0.27	72	0.073	<1	1.45	0.006	0.03	0.1	0.04	1.9	<0.1	<0.05	5	0.5	<0.2
L56894+00N 7088+50E	Soil	22	0.13	96	0.138	<1	0.63	0.007	0.01	<0.1	0.02	0.8	<0.1	0.05	6	<0.5	<0.2
L56894+00N 7088+75E	Soil	13	0.07	54	0.047	<1	0.66	0.009	0.02	<0.1	0.06	0.3	<0.1	0.07	7	<0.5	<0.2
L56894+00N 7089+00E	Soil	10	0.06	137	0.025	<1	0.44	0.011	0.03	<0.1	0.06	0.2	<0.1	0.08	5	<0.5	<0.2
L56894+00N 7089+25E	Soil	19	0.10	62	0.098	<1	0.59	0.006	0.02	<0.1	0.04	0.5	<0.1	<0.05	6	<0.5	<0.2
L56894+00N 7089+50E	Soil	19	0.09	177	0.099	1	0.42	0.007	0.02	<0.1	0.05	0.8	<0.1	<0.05	5	<0.5	<0.2
L56894+00N 7089+75E	Soil	20	0.13	85	0.067	<1	1.06	0.009	0.02	<0.1	0.06	0.8	<0.1	<0.05	6	<0.5	<0.2
L56894+00N 7090+00E	Soil	26	0.12	36	0.099	<1	1.33	0.006	0.01	<0.1	0.05	0.9	<0.1	<0.05	6	<0.5	<0.2
L56894+00N 7090+25E	Soil	21	0.15	70	0.113	1	1.05	0.010	0.02	0.2	0.05	1.1	<0.1	0.08	9	<0.5	<0.2
L56894+00N 7090+50E	Soil	24	0.19	227	0.168	1	0.64	0.008	0.02	0.2	0.08	1.1	<0.1	<0.05	6	<0.5	<0.2
L56894+00N 7090+75E	Soil	29	0.30	173	0.121	<1	1.00	0.008	0.02	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
L56894+00N 7091+00E	Soil	18	0.07	51	0.094	<1	0.71	0.011	0.02	<0.1	0.02	0.3	<0.1	<0.05	6	<0.5	<0.2
L56894+00N 7091+25E	Soil	35	0.38	160	0.117	<1	0.99	0.007	0.02	<0.1	0.06	1.5	<0.1	<0.05	5	<0.5	<0.2

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Project: CCS 2011
Report Date: September 03, 2011

CERTIFICATE OF ANALYSIS VAN11003591.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56894+00N 7091+50E	Soil		0.9	26.5	11.2	56	0.2	18.0	13.5	970	3.07	14.6	12.8	0.3	5	0.3	0.5	0.2	68	0.06	0.067	6
L56894+00N 7091+75E	Soil		1.1	38.1	9.6	27	1.5	10.6	3.7	230	1.30	3.3	3.0	<0.1	11	0.6	0.2	0.3	33	0.26	0.099	10
L56894+00N 7092+00E	Soil		1.0	21.1	9.9	30	0.5	8.7	5.5	189	2.26	3.9	3.0	0.3	5	0.5	0.2	0.3	63	0.06	0.043	5
L56894+00N 7092+25E	Soil		0.9	16.7	10.5	40	0.3	14.1	5.9	281	2.59	6.9	5.0	0.5	5	0.4	0.4	0.2	73	0.08	0.032	6
L56894+00N 7092+50E	Soil		0.8	13.0	15.7	38	0.2	12.6	4.4	259	1.83	6.7	35.0	0.5	7	0.3	0.4	0.2	63	0.13	0.036	6
L56894+00N 7092+75E	Soil		1.8	41.3	10.3	42	0.5	16.4	6.8	331	2.35	8.6	<0.5	0.2	30	0.6	0.5	0.5	63	0.60	0.071	8
L56894+00N 7093+00E	Soil		0.9	27.1	7.4	54	0.3	31.5	10.4	334	3.51	8.0	11.5	0.7	8	0.2	0.5	0.2	83	0.21	0.047	6
L56894+00N 7093+25E	Soil		0.8	21.6	17.4	61	0.1	18.5	7.3	290	2.76	9.8	11.6	1.4	7	0.1	0.5	0.2	79	0.14	0.040	7
L56894+00N 7093+50E	Soil		0.6	14.4	9.8	54	0.2	16.5	6.6	621	2.56	7.8	2.5	0.6	11	0.2	0.3	0.2	72	0.26	0.051	6
L56894+00N 7093+75E	Soil		1.4	17.5	14.0	44	0.1	12.6	7.4	494	2.10	4.9	1.2	0.2	14	0.2	0.3	0.3	58	0.26	0.049	5
L56894+00N 7094+00E	Soil		0.7	13.2	9.2	34	0.1	14.3	4.0	143	2.34	2.9	4.9	0.9	5	0.1	0.3	0.2	71	0.08	0.030	5
L56895+00N 7086+00E	Soil		1.5	13.1	13.2	32	0.4	7.1	3.2	165	2.64	4.3	2.2	1.0	8	<0.1	0.5	0.4	81	0.10	0.029	4
L56895+00N 7086+25E	Soil		1.4	26.6	21.9	84	1.0	12.5	6.5	328	3.75	7.8	1.3	1.4	7	0.6	0.3	0.3	68	0.09	0.085	7
L56895+00N 7086+50E	Soil		1.1	23.9	11.0	54	0.2	20.5	7.4	302	3.08	12.4	4.0	0.9	4	0.2	0.4	0.2	57	0.04	0.032	10
L56895+00N 7086+75E	Soil		0.5	12.1	9.7	17	0.3	5.8	1.6	50	0.93	2.4	<0.5	<0.1	6	0.2	0.1	0.3	38	0.09	0.033	4
L56895+00N 7087+00E	Soil		0.4	8.5	16.0	39	0.2	4.3	1.6	523	0.72	2.6	<0.5	<0.1	8	0.3	0.3	0.3	32	0.22	0.026	4
L56895+00N 7087+25E	Soil		1.0	14.0	11.1	27	0.3	9.4	4.9	356	2.33	5.2	2.1	0.5	5	0.3	0.2	0.2	69	0.07	0.032	6
L56895+00N 7087+50E	Soil		0.8	24.4	14.0	29	0.4	7.5	4.7	433	1.19	2.5	1.1	<0.1	9	0.2	0.1	0.2	32	0.34	0.062	6
L56895+00N 7087+75E	Soil		0.8	11.0	12.5	34	<0.1	6.1	3.3	175	0.75	2.0	1.3	<0.1	19	0.3	0.2	0.3	27	0.59	0.056	4
L56895+00N 7088+00E	Soil		0.8	10.4	12.4	25	0.1	6.6	3.1	204	1.38	2.3	<0.5	<0.1	8	0.2	0.1	0.3	43	0.28	0.044	5
L56895+00N 7088+25E	Soil		0.8	13.2	9.3	20	0.2	4.9	2.5	224	1.15	1.5	3.3	<0.1	5	0.1	<0.1	0.2	29	0.06	0.066	4
L56895+00N 7088+50E	Soil		0.8	20.1	8.7	39	0.2	13.2	6.8	498	2.05	4.6	1.8	0.1	19	0.2	0.2	0.2	62	0.41	0.063	4
L56895+00N 7088+75E	Soil		0.9	63.5	13.3	23	2.0	12.3	3.7	180	1.12	3.9	1.4	0.1	7	0.3	0.2	0.2	26	0.11	0.132	65
L56895+00N 7089+00E	Soil		0.3	33.9	7.1	26	0.4	13.8	4.0	62	0.85	7.4	<0.5	<0.1	17	0.7	0.2	0.2	31	0.42	0.079	14
L56895+00N 7089+25E	Soil		0.6	17.1	7.2	9	0.2	7.4	2.4	50	0.57	3.1	1.0	<0.1	22	0.4	0.2	2.4	13	0.73	0.102	10
L56895+00N 7089+50E	Soil		0.9	9.8	11.4	16	0.2	8.2	2.6	69	2.32	3.3	5.1	0.6	5	0.2	0.2	0.4	76	0.07	0.025	6
L56895+00N 7089+75E	Soil		0.9	20.3	11.2	41	0.3	16.1	6.1	229	3.02	9.0	8.0	0.8	5	0.4	0.4	0.3	84	0.07	0.037	7
L56895+00N 7090+00E	Soil		0.9	14.1	11.7	26	0.4	7.7	2.8	138	2.17	4.5	4.0	0.3	5	0.3	0.3	0.3	56	0.05	0.042	5
L56895+00N 7090+25E	Soil		0.8	17.7	11.1	23	0.4	8.6	3.0	96	1.81	4.3	4.0	0.1	4	0.3	0.3	0.3	61	0.05	0.046	5
L56895+00N 7090+50E	Soil		0.8	21.2	16.3	50	0.2	16.1	7.1	339	2.41	8.7	2.9	0.4	9	0.2	0.5	0.3	84	0.16	0.052	6

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		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56894+00N 7091+50E	Soil		30	0.31	141	0.104	1	1.11	0.010	0.02	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
L56894+00N 7091+75E	Soil		16	0.16	117	0.030	<1	1.55	0.014	0.02	<0.1	0.06	0.7	<0.1	0.09	6	1.1	<0.2
L56894+00N 7092+00E	Soil		20	0.14	104	0.138	<1	0.92	0.010	0.02	0.1	0.04	1.1	<0.1	<0.05	7	<0.5	<0.2
L56894+00N 7092+25E	Soil		28	0.29	109	0.158	<1	0.97	0.008	0.02	<0.1	0.04	1.2	<0.1	<0.05	6	<0.5	<0.2
L56894+00N 7092+50E	Soil		23	0.23	124	0.130	<1	0.68	0.007	0.03	<0.1	0.07	1.2	<0.1	<0.05	5	<0.5	<0.2
L56894+00N 7092+75E	Soil		28	0.31	208	0.114	1	1.22	0.012	0.03	0.1	0.03	1.8	<0.1	0.06	5	1.8	<0.2
L56894+00N 7093+00E	Soil		58	0.68	163	0.183	<1	1.40	0.008	0.03	0.1	0.08	2.1	<0.1	0.06	6	<0.5	<0.2
L56894+00N 7093+25E	Soil		34	0.41	174	0.159	1	1.00	0.007	0.03	0.2	0.07	1.8	<0.1	<0.05	6	<0.5	<0.2
L56894+00N 7093+50E	Soil		35	0.38	227	0.175	1	0.86	0.008	0.03	0.1	0.11	1.5	<0.1	<0.05	6	<0.5	<0.2
L56894+00N 7093+75E	Soil		22	0.22	208	0.086	<1	0.72	0.009	0.04	<0.1	0.06	0.9	<0.1	<0.05	7	<0.5	<0.2
L56894+00N 7094+00E	Soil		33	0.21	86	0.190	<1	0.79	0.006	0.02	<0.1	0.05	1.1	<0.1	<0.05	6	<0.5	<0.2
L56895+00N 7086+00E	Soil		18	0.10	59	0.188	<1	0.66	0.007	0.03	0.1	0.04	0.9	<0.1	<0.05	11	<0.5	<0.2
L56895+00N 7086+25E	Soil		33	0.25	79	0.186	<1	1.76	0.007	0.03	0.2	0.14	1.6	<0.1	0.11	9	<0.5	<0.2
L56895+00N 7086+50E	Soil		38	0.43	98	0.073	<1	1.89	0.006	0.03	0.1	0.05	2.0	<0.1	<0.05	6	<0.5	<0.2
L56895+00N 7086+75E	Soil		14	0.06	75	0.073	<1	0.51	0.009	0.02	<0.1	0.05	0.4	<0.1	<0.05	6	<0.5	<0.2
L56895+00N 7087+00E	Soil		11	0.05	96	0.072	2	0.26	0.009	0.02	<0.1	0.08	0.4	<0.1	<0.05	5	<0.5	<0.2
L56895+00N 7087+25E	Soil		25	0.19	71	0.132	<1	0.87	0.008	0.03	<0.1	0.04	1.1	<0.1	<0.05	7	<0.5	<0.2
L56895+00N 7087+50E	Soil		17	0.13	98	0.055	<1	1.25	0.011	0.03	<0.1	0.08	0.6	<0.1	0.06	7	<0.5	<0.2
L56895+00N 7087+75E	Soil		13	0.09	160	0.044	<1	0.48	0.011	0.03	0.1	0.12	0.3	<0.1	0.10	5	<0.5	<0.2
L56895+00N 7088+00E	Soil		19	0.12	70	0.075	<1	0.82	0.011	0.02	0.1	0.04	0.6	<0.1	0.05	7	<0.5	<0.2
L56895+00N 7088+25E	Soil		14	0.08	58	0.035	<1	0.82	0.009	0.03	<0.1	0.03	0.2	<0.1	0.09	6	<0.5	<0.2
L56895+00N 7088+50E	Soil		42	0.26	181	0.085	<1	0.81	0.011	0.03	<0.1	0.04	1.0	<0.1	0.09	5	<0.5	<0.2
L56895+00N 7088+75E	Soil		25	0.16	75	0.019	<1	2.49	0.011	0.02	<0.1	0.10	1.2	<0.1	0.12	5	1.2	<0.2
L56895+00N 7089+00E	Soil		26	0.23	119	0.044	<1	1.72	0.014	0.02	<0.1	0.07	1.2	<0.1	0.16	4	1.0	<0.2
L56895+00N 7089+25E	Soil		14	0.08	85	0.014	2	0.72	0.020	0.03	<0.1	0.08	0.5	<0.1	0.27	1	<0.5	<0.2
L56895+00N 7089+50E	Soil		29	0.15	63	0.141	<1	1.14	0.006	0.01	0.1	0.04	1.1	<0.1	<0.05	8	<0.5	<0.2
L56895+00N 7089+75E	Soil		33	0.30	117	0.178	1	1.19	0.006	0.02	0.1	0.04	1.7	<0.1	<0.05	6	<0.5	<0.2
L56895+00N 7090+00E	Soil		19	0.14	110	0.113	<1	0.89	0.007	0.02	0.1	0.05	0.8	<0.1	<0.05	7	<0.5	<0.2
L56895+00N 7090+25E	Soil		22	0.15	92	0.100	<1	0.76	0.008	0.02	<0.1	0.05	0.7	<0.1	<0.05	6	<0.5	<0.2
L56895+00N 7090+50E	Soil		34	0.28	147	0.158	2	0.79	0.009	0.03	0.1	0.10	1.5	<0.1	<0.05	5	<0.5	<0.2

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		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56895+00N 7090+75E	Soil		0.6	9.0	14.1	25	0.2	7.0	2.5	121	1.27	5.1	2.7	0.2	6	0.1	0.3	0.3	60	0.09	0.033	7
L56895+00N 7091+00E	Soil		1.2	34.4	12.9	73	0.4	26.2	11.0	609	3.29	14.3	5.9	0.6	8	0.2	0.6	0.2	78	0.18	0.067	8
L56895+00N 7091+25E	Soil		1.3	86.8	9.9	67	2.2	29.9	8.6	589	1.94	6.9	0.7	0.1	22	0.8	0.4	0.3	42	0.63	0.181	15
L56895+00N 7091+50E	Soil		1.7	45.9	9.3	43	1.5	15.6	5.9	329	1.75	4.6	2.3	<0.1	16	1.1	0.2	0.3	40	0.45	0.104	10
L56895+00N 7091+75E	Soil		1.1	44.4	8.8	71	0.1	42.4	20.3	441	3.95	16.6	16.2	1.7	6	0.4	0.6	0.3	87	0.23	0.048	8
L56895+00N 7092+00E	Soil		0.8	46.7	9.3	71	0.5	37.4	15.0	416	3.51	16.1	13.5	2.0	7	0.3	0.5	0.2	77	0.26	0.039	10
L56895+00N 7092+25E	Soil		1.0	20.2	10.3	37	0.3	12.7	4.5	200	2.49	5.1	1.5	0.3	7	0.3	0.2	0.2	66	0.10	0.039	7
L56895+00N 7092+50E	Soil		0.9	22.5	10.6	55	0.1	25.3	8.6	273	3.88	8.2	4.9	1.8	7	0.1	0.4	0.2	110	0.16	0.040	6
L56895+00N 7092+75E	Soil		1.0	20.3	11.2	53	0.3	25.1	8.7	280	3.85	6.2	4.9	1.5	7	0.1	0.4	0.2	119	0.13	0.041	6
L56895+00N 7093+00E	Soil		0.9	22.4	11.2	60	0.2	25.1	9.7	564	3.74	5.8	2.2	0.9	7	0.2	0.3	0.2	102	0.14	0.046	6
L56895+00N 7093+25E	Soil		0.7	53.2	7.6	78	0.2	59.4	20.3	470	4.00	11.7	13.0	1.9	8	0.2	0.5	0.1	87	0.31	0.046	9
L56895+00N 7093+50E	Soil		0.9	20.1	10.4	46	0.4	15.1	6.1	420	2.60	3.4	3.6	0.2	5	0.3	0.2	0.2	70	0.11	0.059	5
L56895+00N 7093+75E	Soil		0.8	19.0	9.0	45	0.4	16.9	8.1	504	2.65	6.0	5.6	0.2	8	0.2	0.2	0.2	73	0.13	0.064	7
L56895+00N 7094+00E	Soil		1.1	42.8	10.0	95	0.7	33.8	9.6	421	2.12	4.9	<0.5	<0.1	30	1.1	0.3	0.2	54	0.70	0.187	8
L56896+00N 7086+00E	Soil		1.3	22.2	36.5	62	0.7	16.7	7.1	371	3.54	10.8	5.1	0.9	6	0.3	0.7	0.3	82	0.11	0.051	8
L56896+00N 7086+25E	Soil		0.8	17.8	14.0	25	0.3	6.8	2.3	77	1.45	3.0	4.2	0.2	7	0.3	0.2	0.3	48	0.10	0.038	6
L56896+00N 7086+50E	Soil		1.4	29.8	31.4	59	0.7	15.6	8.9	2216	1.58	7.0	1.7	<0.1	36	0.9	0.5	0.3	38	0.69	0.139	10
L56896+00N 7086+75E	Soil		1.2	11.5	12.8	30	0.2	10.3	4.0	142	2.50	5.9	4.6	1.1	6	0.1	0.4	0.3	84	0.10	0.031	7
L56896+00N 7087+00E	Soil		1.3	21.4	9.3	52	0.6	13.2	7.3	551	3.74	6.5	3.7	0.7	6	0.4	0.2	0.2	69	0.09	0.053	8
L56896+00N 7087+25E	Soil		0.7	11.4	13.5	23	0.4	6.6	2.7	149	1.67	2.9	2.2	0.1	6	0.2	0.2	0.3	51	0.08	0.043	6
L56896+00N 7087+50E	Soil		1.1	23.8	12.1	92	0.3	13.3	9.8	1851	1.98	6.7	0.6	<0.1	13	0.5	0.2	0.3	45	0.29	0.089	6
L56896+00N 7087+75E	Soil		0.7	15.1	12.1	28	0.2	7.4	3.4	120	1.36	2.7	1.0	0.1	13	0.3	0.1	0.3	45	0.21	0.056	5
L56896+00N 7088+00E	Soil		0.8	53.4	9.2	56	0.7	23.3	5.5	276	1.75	15.1	1.6	<0.1	17	0.5	0.2	0.2	41	0.41	0.162	16
L56896+00N 7088+25E	Soil		0.7	47.8	9.8	61	0.7	24.6	6.0	477	1.63	15.2	0.8	0.1	15	0.6	0.2	0.2	39	0.33	0.185	15
L56896+00N 7088+50E	Soil		0.9	10.5	10.1	22	0.3	12.7	4.1	93	2.11	4.5	18.4	0.6	6	0.1	0.2	0.2	69	0.10	0.032	6
L56896+00N 7088+75E	Soil		1.0	29.6	10.3	26	0.3	17.4	6.7	160	1.98	5.7	133.8	0.2	8	0.3	0.2	0.2	51	0.17	0.062	8
L56896+00N 7089+00E	Soil		1.0	13.2	9.8	21	0.4	16.6	5.9	105	2.33	3.9	6.0	0.9	6	0.2	0.2	0.1	75	0.13	0.024	6
L56896+00N 7089+25E	Soil		1.0	36.5	11.9	38	0.9	18.9	5.9	117	1.90	6.5	5.9	0.2	25	0.8	0.3	0.2	44	0.82	0.074	12
L56896+00N 7089+50E	Soil		0.8	11.0	11.6	14	0.5	5.0	1.6	53	1.15	2.5	10.6	0.1	6	0.2	0.2	0.2	47	0.08	0.037	6
L56896+00N 7089+75E	Soil		0.6	9.7	12.6	15	0.5	4.7	1.4	55	0.79	3.3	9.5	<0.1	5	<0.1	0.2	0.2	38	0.06	0.045	6

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Project: CCS 2011
Report Date: September 03, 2011

CERTIFICATE OF ANALYSIS VAN11003591.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56895+00N 7090+75E	Soil	20	0.12	86	0.118	1	0.54	0.008	0.03	<0.1	0.06	0.7	<0.1	<0.05	6	<0.5	<0.2
L56895+00N 7091+00E	Soil	42	0.51	199	0.112	<1	1.28	0.007	0.03	0.1	0.06	1.9	<0.1	<0.05	6	<0.5	<0.2
L56895+00N 7091+25E	Soil	44	0.28	286	0.027	1	2.54	0.013	0.04	0.1	0.08	1.9	<0.1	0.09	7	2.3	<0.2
L56895+00N 7091+50E	Soil	25	0.24	123	0.048	2	1.78	0.015	0.02	0.1	0.09	1.1	<0.1	<0.05	7	1.2	<0.2
L56895+00N 7091+75E	Soil	67	0.90	117	0.233	1	2.58	0.008	0.03	0.1	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
L56895+00N 7092+00E	Soil	55	0.86	118	0.187	2	2.04	0.007	0.04	0.1	0.05	3.7	<0.1	<0.05	5	<0.5	<0.2
L56895+00N 7092+25E	Soil	27	0.26	93	0.123	<1	1.16	0.010	0.03	0.1	0.05	1.1	<0.1	<0.05	8	<0.5	<0.2
L56895+00N 7092+50E	Soil	56	0.53	103	0.276	<1	1.36	0.008	0.03	0.2	0.06	2.4	<0.1	<0.05	8	<0.5	<0.2
L56895+00N 7092+75E	Soil	57	0.54	81	0.298	1	1.40	0.008	0.03	0.2	0.06	2.3	<0.1	<0.05	9	<0.5	<0.2
L56895+00N 7093+00E	Soil	57	0.54	105	0.221	2	1.43	0.009	0.03	<0.1	0.05	1.9	<0.1	<0.05	9	<0.5	<0.2
L56895+00N 7093+25E	Soil	87	1.22	83	0.224	<1	2.43	0.008	0.03	0.1	0.06	4.2	<0.1	<0.05	5	<0.5	<0.2
L56895+00N 7093+50E	Soil	43	0.31	59	0.120	<1	1.36	0.009	0.03	<0.1	0.05	1.1	<0.1	<0.05	8	<0.5	<0.2
L56895+00N 7093+75E	Soil	38	0.36	114	0.113	<1	1.01	0.008	0.04	<0.1	0.07	1.4	<0.1	<0.05	6	<0.5	<0.2
L56895+00N 7094+00E	Soil	49	0.59	256	0.039	1	1.81	0.012	0.07	<0.1	0.07	1.4	<0.1	0.16	6	1.0	<0.2
L56896+00N 7086+00E	Soil	37	0.34	56	0.164	<1	1.38	0.009	0.03	0.1	0.08	1.6	<0.1	<0.05	8	<0.5	<0.2
L56896+00N 7086+25E	Soil	19	0.11	61	0.088	2	0.64	0.009	0.03	0.1	0.04	0.6	<0.1	<0.05	7	<0.5	<0.2
L56896+00N 7086+50E	Soil	18	0.18	235	0.029	3	1.16	0.013	0.04	0.1	0.25	0.6	0.1	0.13	5	0.8	<0.2
L56896+00N 7086+75E	Soil	31	0.21	47	0.192	2	0.79	0.007	0.02	0.1	0.07	1.5	<0.1	<0.05	7	<0.5	<0.2
L56896+00N 7087+00E	Soil	37	0.27	76	0.135	<1	2.15	0.010	0.03	0.1	0.08	1.9	<0.1	<0.05	10	<0.5	<0.2
L56896+00N 7087+25E	Soil	21	0.12	62	0.099	<1	0.89	0.011	0.02	<0.1	0.07	0.7	<0.1	<0.05	7	<0.5	<0.2
L56896+00N 7087+50E	Soil	20	0.21	144	0.046	1	1.50	0.014	0.03	<0.1	0.07	0.6	<0.1	<0.05	9	<0.5	<0.2
L56896+00N 7087+75E	Soil	20	0.10	127	0.070	<1	0.61	0.011	0.02	<0.1	0.02	0.6	<0.1	0.05	6	<0.5	<0.2
L56896+00N 7088+00E	Soil	33	0.28	133	0.025	<1	3.01	0.015	0.04	<0.1	0.07	1.3	<0.1	0.11	7	1.7	<0.2
L56896+00N 7088+25E	Soil	37	0.29	158	0.027	<1	3.05	0.014	0.04	<0.1	0.07	1.4	0.1	0.11	6	1.5	<0.2
L56896+00N 7088+50E	Soil	38	0.30	67	0.146	<1	1.09	0.008	0.02	0.1	0.03	1.4	<0.1	<0.05	7	<0.5	<0.2
L56896+00N 7088+75E	Soil	36	0.29	128	0.078	<1	1.54	0.012	0.02	0.1	0.05	1.8	<0.1	<0.05	8	<0.5	<0.2
L56896+00N 7089+00E	Soil	45	0.42	89	0.179	<1	1.43	0.009	0.01	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2
L56896+00N 7089+25E	Soil	28	0.27	237	0.089	2	1.37	0.013	0.04	0.2	0.15	2.1	<0.1	<0.05	6	1.2	<0.2
L56896+00N 7089+50E	Soil	17	0.09	77	0.116	<1	0.78	0.009	0.02	<0.1	0.05	0.6	<0.1	<0.05	7	<0.5	<0.2
L56896+00N 7089+75E	Soil	15	0.11	46	0.077	<1	0.63	0.007	0.03	<0.1	0.05	0.4	<0.1	<0.05	6	<0.5	<0.2

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CERTIFICATE OF ANALYSIS VAN11003591.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56896+00N 7090+00E	Soil		0.8	12.3	10.7	21	0.4	7.3	2.6	108	1.83	3.5	4.4	0.2	4	0.3	0.4	0.8	51	0.05	0.039	5
L56896+00N 7090+25E	Soil		1.1	19.4	16.7	35	1.0	12.0	5.1	301	2.33	10.9	11.5	0.3	5	0.4	0.6	0.6	65	0.05	0.057	5
L56896+00N 7090+50E	Soil		0.9	12.8	11.4	31	0.2	8.7	2.8	134	1.82	3.3	1.5	0.2	9	0.3	0.3	0.5	58	0.14	0.041	6
L56896+00N 7090+75E	Soil		1.0	18.4	10.3	30	0.5	7.7	4.5	351	1.89	3.3	0.9	0.2	4	0.2	0.3	0.4	55	0.06	0.055	6
L56896+00N 7091+00E	Soil		0.8	15.3	15.1	28	0.3	8.0	4.5	353	1.33	2.3	1.5	0.1	11	0.1	0.2	0.4	49	0.17	0.068	4
L56896+00N 7091+25E	Soil		1.3	34.9	11.8	34	1.0	11.5	4.1	219	1.68	6.1	1.8	0.1	5	0.5	0.3	0.3	45	0.05	0.084	10
L56896+00N 7091+50E	Soil		1.1	61.1	11.7	41	2.2	32.0	16.9	296	1.66	4.5	1.2	<0.1	17	0.6	0.5	0.2	36	0.51	0.116	16
L56896+00N 7091+75E	Soil		0.7	9.9	16.6	28	0.4	9.0	3.5	128	1.70	4.1	1.8	0.6	10	<0.1	0.2	0.2	65	0.18	0.033	6
L56896+00N 7092+00E	Soil		0.8	13.0	12.7	39	0.3	10.6	3.7	298	1.77	3.6	1.4	0.3	10	<0.1	0.2	0.2	64	0.27	0.042	5
L56896+00N 7092+25E	Soil		0.5	9.5	12.5	21	0.5	7.8	2.3	83	1.08	1.8	<0.5	0.1	8	<0.1	<0.1	<0.1	54	0.15	0.051	4
L56896+00N 7092+50E	Soil		1.1	26.0	10.3	45	0.5	25.3	8.6	356	3.17	3.9	<0.5	0.3	6	0.2	0.2	0.1	85	0.11	0.052	5
L56896+00N 7092+75E	Soil		0.9	24.8	9.0	47	0.3	26.3	8.7	484	2.87	3.0	<0.5	0.2	8	0.2	0.2	<0.1	77	0.17	0.064	4
L56896+00N 7093+00E	Soil		0.8	26.2	9.2	67	0.5	23.6	8.9	810	2.76	3.4	<0.5	0.1	12	0.2	0.1	<0.1	76	0.26	0.094	4
L56896+00N 7093+25E	Soil		0.9	35.2	12.3	63	0.6	23.6	10.2	705	2.91	4.6	0.9	0.1	14	0.2	0.2	0.1	71	0.17	0.092	5
L56896+00N 7093+50E	Soil		1.2	62.0	11.1	74	1.2	35.1	9.1	359	2.64	4.9	1.4	<0.1	14	0.4	0.2	0.1	62	0.23	0.131	8
L56896+00N 7093+75E	Soil		0.8	24.3	10.6	30	0.3	12.5	5.4	133	1.37	2.4	3.6	<0.1	10	0.4	0.1	0.1	38	0.13	0.078	7
L56896+00N 7094+00E	Soil		1.9	25.0	10.6	79	0.3	26.3	19.8	1361	2.76	4.9	4.6	0.2	18	0.8	0.1	<0.1	72	0.36	0.072	6
L56896+50N 7090+25E	Soil		1.1	17.0	14.2	52	0.4	18.3	6.1	243	2.70	11.0	8.8	1.3	6	<0.1	0.4	<0.1	70	0.11	0.050	9
L56896+50N 7090+50E	Soil		1.2	26.6	11.0	56	0.2	21.6	9.3	440	3.49	10.9	5.7	1.1	6	<0.1	0.3	<0.1	73	0.13	0.050	9
L56896+50N 7090+75E	Soil		0.8	14.5	13.6	59	0.2	10.6	4.1	983	1.75	4.2	8.5	<0.1	13	<0.1	0.2	<0.1	60	0.41	0.068	5
L56896+50N 7091+00E	Soil		1.0	19.4	9.4	33	0.9	11.3	4.7	292	2.56	4.1	1.2	0.2	5	0.2	0.1	<0.1	81	0.06	0.051	6
L56896+50N 7091+25E	Soil		1.0	17.2	18.2	35	0.3	10.6	3.5	210	1.97	7.5	1.5	<0.1	9	<0.1	0.3	<0.1	56	0.12	0.073	7
L56896+50N 7091+50E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56896+50N 7091+75E	Soil		0.8	12.6	17.7	32	0.2	15.5	4.6	257	2.24	2.2	<0.5	0.1	9	<0.1	0.2	<0.1	74	0.19	0.056	4
L56896+50N 7092+00E	Soil		1.1	15.9	13.0	32	0.2	19.6	5.9	157	2.08	3.8	3.1	<0.1	7	<0.1	<0.1	<0.1	74	0.14	0.049	6
L56896+50N 7092+25E	Soil		0.7	14.2	10.0	36	0.1	18.9	4.6	268	1.96	2.0	1.1	<0.1	9	<0.1	<0.1	<0.1	71	0.22	0.059	5
L56896+50N 7092+50E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56896+50N 7092+75E	Soil		1.1	24.1	8.6	46	0.5	19.7	9.4	412	3.07	4.1	9.2	0.2	6	0.1	<0.1	<0.1	74	0.12	0.058	6
L56896+50N 7093+00E	Soil		0.9	20.2	11.4	39	0.4	15.1	5.1	335	2.42	2.6	5.4	<0.1	8	<0.1	<0.1	<0.1	75	0.15	0.058	5
L56896+50N 7093+25E	Soil		0.9	53.4	9.2	34	0.8	15.4	4.6	146	1.90	2.2	0.8	<0.1	7	<0.1	<0.1	<0.1	49	0.10	0.071	7

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		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56896+00N 7090+00E	Soil		19	0.13	62	0.078	1	0.86	0.008	0.02	<0.1	0.04	0.6	<0.1	0.06	7	<0.5	<0.2
L56896+00N 7090+25E	Soil		26	0.22	88	0.095	2	0.80	0.008	0.02	0.1	0.06	1.1	<0.1	<0.05	6	<0.5	<0.2
L56896+00N 7090+50E	Soil		19	0.15	103	0.093	2	0.70	0.009	0.02	<0.1	0.05	0.6	<0.1	0.05	7	<0.5	<0.2
L56896+00N 7090+75E	Soil		20	0.17	69	0.085	<1	1.04	0.009	0.03	0.1	0.04	0.7	<0.1	0.05	8	<0.5	<0.2
L56896+00N 7091+00E	Soil		15	0.11	177	0.068	<1	0.54	0.010	0.03	0.1	0.05	0.5	<0.1	0.05	6	<0.5	<0.2
L56896+00N 7091+25E	Soil		20	0.20	113	0.055	<1	1.37	0.010	0.03	0.1	0.05	0.9	<0.1	0.11	7	0.6	<0.2
L56896+00N 7091+50E	Soil		40	0.25	215	0.032	1	2.70	0.016	0.03	<0.1	0.07	1.4	<0.1	0.13	5	2.9	<0.2
L56896+00N 7091+75E	Soil		21	0.18	95	0.152	2	0.57	0.009	0.03	0.1	0.05	0.9	<0.1	<0.05	6	<0.5	<0.2
L56896+00N 7092+00E	Soil		28	0.24	83	0.136	2	0.76	0.010	0.05	<0.1	0.07	0.9	<0.1	<0.05	7	<0.5	<0.2
L56896+00N 7092+25E	Soil		31	0.15	94	0.162	5	0.58	0.010	0.03	0.1	0.06	0.6	<0.1	<0.05	7	<0.5	<0.2
L56896+00N 7092+50E	Soil		58	0.52	87	0.148	<1	1.62	0.010	0.03	0.1	0.04	1.7	<0.1	<0.05	9	<0.5	<0.2
L56896+00N 7092+75E	Soil		58	0.50	99	0.136	<1	1.45	0.012	0.03	<0.1	0.05	1.4	<0.1	<0.05	8	<0.5	<0.2
L56896+00N 7093+00E	Soil		48	0.43	155	0.105	<1	1.31	0.010	0.04	<0.1	0.06	1.3	<0.1	<0.05	8	<0.5	<0.2
L56896+00N 7093+25E	Soil		45	0.41	199	0.067	<1	1.65	0.016	0.06	<0.1	0.04	1.3	<0.1	0.07	9	<0.5	<0.2
L56896+00N 7093+50E	Soil		53	0.52	234	0.037	<1	2.34	0.012	0.06	<0.1	0.05	1.3	<0.1	0.09	8	<0.5	<0.2
L56896+00N 7093+75E	Soil		19	0.23	100	0.052	1	1.15	0.012	0.04	0.1	0.09	0.6	<0.1	<0.05	5	<0.5	<0.2
L56896+00N 7094+00E	Soil		42	0.58	209	0.093	<1	1.53	0.012	0.04	<0.1	0.05	1.7	<0.1	<0.05	8	0.9	<0.2
L56896+50N 7090+25E	Soil		27	0.29	131	0.132	<1	0.95	0.006	0.03	0.2	0.06	1.8	<0.1	<0.05	6	<0.5	<0.2
L56896+50N 7090+50E	Soil		38	0.48	95	0.155	<1	1.66	0.008	0.03	0.1	0.07	2.1	<0.1	<0.05	7	0.5	<0.2
L56896+50N 7090+75E	Soil		21	0.21	172	0.109	2	0.61	0.011	0.04	<0.1	0.11	0.8	0.2	0.05	5	<0.5	<0.2
L56896+50N 7091+00E	Soil		29	0.21	95	0.135	<1	1.04	0.010	0.02	<0.1	0.04	1.1	<0.1	<0.05	7	<0.5	<0.2
L56896+50N 7091+25E	Soil		19	0.16	100	0.077	<1	0.73	0.011	0.03	<0.1	0.05	0.5	<0.1	<0.05	6	<0.5	<0.2
L56896+50N 7091+50E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56896+50N 7091+75E	Soil		44	0.28	76	0.154	<1	0.86	0.011	0.04	<0.1	0.06	0.9	<0.1	<0.05	8	<0.5	<0.2
L56896+50N 7092+00E	Soil		51	0.44	60	0.215	<1	1.24	0.013	0.03	0.1	0.04	1.2	<0.1	<0.05	8	<0.5	<0.2
L56896+50N 7092+25E	Soil		50	0.36	83	0.231	1	1.25	0.013	0.03	0.2	0.10	1.0	<0.1	<0.05	8	<0.5	<0.2
L56896+50N 7092+50E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56896+50N 7092+75E	Soil		49	0.45	63	0.135	<1	1.81	0.011	0.03	0.1	0.06	1.7	<0.1	<0.05	9	<0.5	<0.2
L56896+50N 7093+00E	Soil		41	0.28	88	0.127	<1	1.22	0.011	0.03	<0.1	0.04	1.0	<0.1	<0.05	8	<0.5	<0.2
L56896+50N 7093+25E	Soil		31	0.24	102	0.061	<1	2.29	0.017	0.03	<0.1	0.07	1.2	<0.1	0.08	8	0.7	<0.2

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: CCS 2011
Report Date: September 03, 2011

CERTIFICATE OF ANALYSIS VAN11003591.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56896+50N 7093+50E	Soil		0.9	36.7	7.3	35	1.6	24.9	9.0	368	1.28	2.6	1.0	<0.1	18	0.5	<0.1	<0.1	33	0.35	0.191	9
L56896+50N 7093+75E	Soil		1.0	20.8	8.3	45	0.2	19.4	8.9	249	3.23	5.4	3.9	1.4	6	<0.1	0.1	<0.1	82	0.16	0.038	8
L56896+50N 7094+00E	Soil		0.7	27.5	5.5	70	0.5	36.0	14.2	411	4.18	7.7	6.8	1.1	8	0.2	0.1	<0.1	97	0.22	0.044	7
L56897+00N 7084+50E	Soil		0.9	72.0	10.5	53	1.9	27.3	19.7	1058	2.43	7.8	4.5	<0.1	21	0.3	0.2	<0.1	57	0.75	0.100	12
L56897+00N 7084+75E	Soil		0.7	14.5	10.3	25	0.4	11.2	4.0	123	2.68	3.7	1.0	0.2	7	0.1	0.2	<0.1	86	0.14	0.051	4
L56897+00N 7085+00E	Soil		0.6	24.7	8.2	38	0.5	15.4	5.6	142	2.53	4.7	2.7	0.2	10	0.1	<0.1	<0.1	71	0.23	0.059	5
L56897+00N 7085+25E	Soil		0.7	12.0	9.9	26	0.4	8.5	3.4	133	1.45	2.4	134.8	0.1	9	0.2	0.2	0.2	56	0.14	0.044	5
L56897+00N 7085+50E	Soil		0.7	17.5	12.5	38	0.1	21.9	8.4	289	2.84	7.1	3.9	0.7	13	0.1	0.4	0.2	108	0.28	0.042	7
L56897+00N 7085+75E	Soil		1.3	23.3	13.6	57	0.3	22.1	7.2	207	3.05	13.2	4.2	1.8	9	0.2	0.6	0.3	95	0.15	0.036	11
L56897+00N 7086+00E	Soil		1.1	21.3	18.8	44	0.5	12.3	3.1	269	1.38	4.9	1.6	0.4	17	0.2	0.3	0.5	42	0.24	0.038	10
L56897+00N 7086+25E	Soil		1.8	57.4	16.0	50	3.2	24.1	6.6	455	1.83	6.6	8.2	<0.1	25	0.5	0.4	0.3	46	0.41	0.136	15
L56897+00N 7086+50E	Soil		1.3	59.0	12.9	85	1.5	34.3	6.8	474	2.31	8.2	8.5	0.2	23	0.5	0.3	0.3	46	0.34	0.144	10
L56897+00N 7086+75E	Soil		1.1	25.3	9.0	44	0.9	18.4	8.2	317	2.20	5.8	1.9	0.2	12	0.5	0.2	0.2	65	0.19	0.087	7
L56897+00N 7087+00E	Soil		0.8	15.8	9.8	25	1.5	15.5	5.3	111	1.69	4.3	3.9	0.3	11	0.2	0.2	0.2	51	0.19	0.064	9
L56897+00N 7087+25E	Soil		0.6	81.1	9.7	28	0.8	24.9	6.6	137	2.11	6.0	8.2	0.4	7	0.1	0.2	0.2	46	0.13	0.074	25
L56897+00N 7087+50E	Soil		0.9	17.4	8.5	15	0.6	10.7	3.0	62	1.20	2.5	5.7	<0.1	4	0.3	0.2	0.2	34	0.07	0.096	9
L56897+00N 7087+75E	Soil		1.4	16.1	11.7	33	0.3	13.3	4.7	506	2.45	5.8	4.7	0.3	6	0.1	0.2	0.2	60	0.09	0.053	7
L56897+00N 7088+00E	Soil		1.0	14.3	10.0	39	0.4	8.6	3.2	245	2.27	4.4	5.9	0.2	7	0.2	0.2	0.3	65	0.08	0.077	4
L56897+00N 7088+25E	Soil		0.8	15.0	9.4	23	0.4	11.0	3.6	144	2.04	3.8	3.0	0.2	7	0.2	0.2	0.2	59	0.10	0.059	6
L56897+00N 7088+50E	Soil		0.8	9.7	9.4	16	0.4	6.2	2.0	57	1.49	2.8	21.7	0.1	4	0.1	0.1	0.2	50	0.05	0.049	6
L56897+00N 7088+75E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56897+00N 7089+00E	Soil		0.8	16.3	13.2	16	0.6	7.6	2.4	69	1.14	2.4	7.0	0.3	11	0.4	0.2	0.2	49	0.19	0.032	6
L56897+00N 7089+25E	Soil		1.1	21.8	14.8	53	0.5	18.3	6.6	338	2.48	9.7	5.6	0.2	9	0.3	0.5	0.2	74	0.16	0.053	7
L56897+00N 7089+50E	Soil		1.0	18.4	10.8	36	0.3	11.1	4.4	234	2.55	5.5	7.5	0.4	4	0.3	0.3	0.2	74	0.06	0.038	5
L56897+00N 7089+75E	Soil		0.7	10.4	15.4	28	0.3	8.5	2.9	140	1.85	4.8	5.3	0.2	5	0.4	0.3	0.2	71	0.08	0.040	6
L56897+00N 7090+00E	Soil		0.9	17.0	10.0	36	0.5	12.2	5.1	309	2.46	5.5	7.5	0.4	6	0.1	0.3	0.2	89	0.09	0.047	6
L56897+00N 7090+25E	Soil		0.9	15.3	10.6	26	0.2	8.4	3.2	131	1.99	4.9	3.0	0.5	5	0.2	0.4	0.2	83	0.06	0.040	5
L56897+00N 7090+50E	Soil		0.9	17.5	10.3	23	0.9	8.3	2.6	125	1.99	4.8	4.6	0.2	3	0.2	0.2	0.2	69	0.06	0.044	6
L56897+00N 7090+75E	Soil		0.6	13.5	19.4	31	0.3	7.6	2.8	254	1.54	5.5	2.4	0.1	8	0.2	0.3	0.3	81	0.14	0.052	7
L56897+00N 7091+00E	Soil		0.8	15.6	10.2	34	0.2	12.2	4.4	213	2.04	6.9	11.3	0.3	7	0.1	0.3	0.2	90	0.10	0.042	8

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Project: CCS 2011
Report Date: September 03, 2011

CERTIFICATE OF ANALYSIS VAN11003591.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56896+50N 7093+50E	Soil	40	0.29	153	0.017	<1	2.16	0.017	0.05	<0.1	0.15	0.6	0.1	0.13	6	2.8	<0.2
L56896+50N 7093+75E	Soil	42	0.51	78	0.230	<1	2.17	0.011	0.03	0.2	0.07	2.5	<0.1	<0.05	8	0.5	<0.2
L56896+50N 7094+00E	Soil	71	0.88	75	0.248	1	2.27	0.008	0.02	0.1	0.05	3.5	<0.1	<0.05	6	<0.5	<0.2
L56897+00N 7084+50E	Soil	45	0.33	179	0.050	<1	2.61	0.013	0.05	0.1	0.10	2.6	<0.1	0.05	8	0.8	<0.2
L56897+00N 7084+75E	Soil	35	0.21	65	0.184	<1	0.88	0.009	0.04	0.1	0.06	1.1	<0.1	<0.05	7	<0.5	<0.2
L56897+00N 7085+00E	Soil	40	0.29	148	0.158	<1	0.92	0.008	0.03	0.2	0.08	1.5	<0.1	<0.05	6	<0.5	<0.2
L56897+00N 7085+25E	Soil	25	0.16	90	0.109	<1	0.75	0.014	0.04	<0.1	0.06	0.9	<0.1	<0.05	6	<0.5	<0.2
L56897+00N 7085+50E	Soil	59	0.48	136	0.237	<1	1.14	0.014	0.03	0.2	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
L56897+00N 7085+75E	Soil	46	0.34	149	0.136	1	0.99	0.009	0.03	0.1	0.06	2.6	<0.1	<0.05	6	<0.5	<0.2
L56897+00N 7086+00E	Soil	19	0.12	231	0.058	<1	0.61	0.014	0.05	<0.1	0.05	1.2	<0.1	<0.05	6	<0.5	<0.2
L56897+00N 7086+25E	Soil	27	0.26	165	0.035	2	1.37	0.018	0.05	<0.1	0.10	2.7	<0.1	0.08	5	1.7	<0.2
L56897+00N 7086+50E	Soil	39	0.37	184	0.034	1	2.09	0.019	0.06	<0.1	0.07	1.9	<0.1	0.09	8	1.2	<0.2
L56897+00N 7086+75E	Soil	46	0.36	120	0.076	<1	1.43	0.015	0.03	<0.1	0.04	1.7	<0.1	0.07	6	<0.5	<0.2
L56897+00N 7087+00E	Soil	39	0.36	107	0.078	<1	1.51	0.015	0.03	<0.1	0.05	2.2	<0.1	0.07	6	0.5	<0.2
L56897+00N 7087+25E	Soil	51	0.39	124	0.066	<1	2.63	0.015	0.03	<0.1	0.08	8.5	<0.1	0.06	7	1.3	<0.2
L56897+00N 7087+50E	Soil	26	0.22	46	0.032	<1	1.72	0.014	0.03	<0.1	0.07	1.1	<0.1	0.06	6	<0.5	<0.2
L56897+00N 7087+75E	Soil	41	0.31	34	0.096	<1	1.44	0.011	0.04	<0.1	0.06	1.1	<0.1	<0.05	9	0.5	<0.2
L56897+00N 7088+00E	Soil	29	0.20	60	0.080	4	1.10	0.011	0.06	<0.1	0.05	0.6	<0.1	0.07	8	<0.5	<0.2
L56897+00N 7088+25E	Soil	31	0.27	56	0.075	3	1.42	0.009	0.03	<0.1	0.04	0.9	<0.1	0.05	7	0.5	<0.2
L56897+00N 7088+50E	Soil	26	0.17	34	0.072	4	1.44	0.009	0.02	<0.1	0.05	0.7	<0.1	<0.05	7	<0.5	<0.2
L56897+00N 7088+75E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56897+00N 7089+00E	Soil	17	0.12	126	0.113	2	0.71	0.012	0.03	0.1	0.04	0.6	<0.1	<0.05	6	<0.5	<0.2
L56897+00N 7089+25E	Soil	28	0.24	192	0.072	3	0.72	0.008	0.03	0.1	0.08	1.1	<0.1	<0.05	4	0.5	<0.2
L56897+00N 7089+50E	Soil	25	0.27	67	0.136	1	0.93	0.008	0.02	<0.1	0.06	1.0	<0.1	<0.05	7	<0.5	<0.2
L56897+00N 7089+75E	Soil	21	0.18	85	0.109	2	0.69	0.007	0.03	<0.1	0.04	0.7	<0.1	<0.05	6	<0.5	<0.2
L56897+00N 7090+00E	Soil	26	0.27	116	0.132	4	0.82	0.008	0.02	<0.1	0.04	1.1	<0.1	<0.05	6	<0.5	<0.2
L56897+00N 7090+25E	Soil	23	0.21	47	0.150	3	0.69	0.011	0.03	<0.1	0.06	0.9	<0.1	<0.05	5	<0.5	<0.2
L56897+00N 7090+50E	Soil	20	0.21	46	0.086	2	0.92	0.012	0.02	<0.1	0.04	0.5	<0.1	<0.05	6	<0.5	<0.2
L56897+00N 7090+75E	Soil	21	0.20	63	0.114	5	0.52	0.013	0.04	<0.1	0.07	0.5	<0.1	<0.05	6	<0.5	<0.2
L56897+00N 7091+00E	Soil	28	0.29	75	0.145	4	0.71	0.010	0.03	0.1	0.07	0.8	<0.1	<0.05	5	<0.5	<0.2

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Client: **PAC Geological Consulting Inc.**
3707 W. 34th Ave.
Vancouver BC V6N 2C9 Canada

Project: CCS 2011
Report Date: September 03, 2011

CERTIFICATE OF ANALYSIS VAN11003591.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56897+00N 7091+25E	Soil		0.8	15.2	9.3	32	0.4	9.5	4.1	346	2.20	3.3	5.4	0.3	5	0.3	0.2	0.3	76	0.08	0.044	6
L56897+00N 7091+50E	Soil		0.5	9.6	10.8	16	0.3	4.6	1.0	67	0.38	1.0	7.7	<0.1	7	0.1	<0.1	0.2	27	0.09	0.061	5
L56897+00N 7091+75E	Soil		0.8	12.1	23.4	26	0.2	7.4	2.6	128	1.28	5.4	8.2	0.3	6	0.2	0.4	0.3	86	0.12	0.042	7
L56897+00N 7092+00E	Soil		1.0	16.1	9.0	27	0.5	10.8	6.1	506	2.55	2.6	1.6	0.3	5	0.2	0.2	0.2	73	0.08	0.043	5
L56897+00N 7092+25E	Soil		0.9	11.0	9.4	19	0.7	7.9	2.5	150	1.78	1.4	1.5	<0.1	5	0.1	<0.1	0.2	71	0.08	0.041	4
L56897+00N 7092+50E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56897+00N 7092+75E	Soil		0.8	19.3	9.1	48	0.2	22.5	8.7	470	3.11	4.4	16.5	0.5	7	0.2	0.5	0.2	103	0.13	0.060	6
L56897+00N 7093+00E	Soil		0.5	15.4	7.8	11	0.6	7.1	2.0	30	0.85	<0.5	1.3	<0.1	7	0.1	<0.1	0.2	45	0.10	0.075	5
L56897+00N 7093+25E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56897+00N 7093+50E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56897+00N 7093+75E	Soil		1.2	27.2	9.2	50	0.2	21.1	8.9	254	3.32	6.3	11.6	1.4	9	0.6	0.3	0.2	90	0.16	0.044	10
L56897+00N 7094+00E	Soil		0.8	28.5	10.1	57	0.3	25.1	10.1	442	2.90	6.1	3.5	0.5	11	0.2	0.3	0.2	82	0.21	0.061	8

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CERTIFICATE OF ANALYSIS VAN11003591.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56897+00N 7091+25E	Soil	28	0.25	75	0.116	2	0.95	0.012	0.02	<0.1	0.04	1.0	<0.1	<0.05	7	<0.5	<0.2
L56897+00N 7091+50E	Soil	23	0.04	69	0.045	4	0.56	0.014	0.06	<0.1	0.02	0.2	<0.1	0.06	4	<0.5	<0.2
L56897+00N 7091+75E	Soil	22	0.18	62	0.173	<1	0.53	0.011	0.04	0.1	0.08	0.7	<0.1	0.05	6	<0.5	<0.2
L56897+00N 7092+00E	Soil	31	0.29	49	0.123	3	1.41	0.015	0.02	<0.1	0.04	1.0	<0.1	<0.05	8	<0.5	<0.2
L56897+00N 7092+25E	Soil	28	0.18	40	0.108	1	1.02	0.017	0.02	<0.1	0.04	0.5	<0.1	<0.05	8	<0.5	<0.2
L56897+00N 7092+50E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56897+00N 7092+75E	Soil	54	0.56	82	0.210	6	1.27	0.011	0.04	<0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2
L56897+00N 7093+00E	Soil	16	0.07	80	0.042	4	0.91	0.018	0.02	<0.1	0.04	0.1	<0.1	0.06	5	<0.5	<0.2
L56897+00N 7093+25E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56897+00N 7093+50E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56897+00N 7093+75E	Soil	49	0.68	109	0.282	6	1.95	0.011	0.04	0.2	0.05	2.8	<0.1	<0.05	7	<0.5	<0.2
L56897+00N 7094+00E	Soil	48	0.71	189	0.121	2	1.70	0.013	0.05	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2

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Project: CCS 2011
Report Date: September 03, 2011

QUALITY CONTROL REPORT VAN11003591.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
L56891+00N 7088+50E	Soil	0.9	15.6	24.1	30	0.1	8.1	2.8	88	1.42	5.1	28.6	0.2	6	0.2	0.2	0.3	39	0.05	0.065	10
REP L56891+00N 7088+50E	QC	0.9	15.9	23.4	32	0.1	8.6	2.7	87	1.42	5.1	8.4	0.2	6	0.2	0.2	0.4	39	0.05	0.067	10
L56892+00N 7086+25E	Soil	0.7	47.3	11.2	70	0.2	21.1	17.1	1149	2.11	8.9	1.0	0.2	12	0.3	0.2	0.2	37	0.46	0.072	8
REP L56892+00N 7086+25E	QC	0.8	49.1	11.0	73	0.2	21.5	17.4	1174	2.12	8.7	<0.5	0.2	12	0.3	0.2	0.2	38	0.47	0.074	8
L56892+00N 7089+75E	Soil	0.9	12.1	17.2	35	0.5	7.8	3.8	243	1.56	5.7	2.2	<0.1	11	0.3	0.2	0.3	38	0.14	0.062	6
REP L56892+00N 7089+75E	QC	0.9	11.4	15.7	32	0.4	7.2	3.5	239	1.49	4.7	3.4	<0.1	11	0.2	0.2	0.3	36	0.12	0.055	5
L56893+00N 7086+25E	Soil	0.4	39.6	10.6	20	0.4	14.6	2.3	108	0.92	7.7	2.0	<0.1	41	0.6	0.2	0.2	20	1.07	0.057	6
REP L56893+00N 7086+25E	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56893+00N 7089+50E	Soil	1.2	31.9	22.3	65	1.1	19.1	10.7	1225	1.90	8.4	3.4	<0.1	14	0.5	0.2	0.4	30	0.17	0.077	13
REP L56893+00N 7089+50E	QC	1.2	32.9	22.1	67	1.1	20.3	11.2	1255	1.92	8.2	5.7	0.1	13	0.4	0.2	0.4	30	0.16	0.074	13
L56894+00N 7086+25E	Soil	1.1	12.7	16.2	24	0.4	5.2	2.0	99	1.96	3.5	5.3	0.6	4	0.1	0.5	0.4	51	0.03	0.032	6
REP L56894+00N 7086+25E	QC	1.5	12.9	16.8	26	0.5	5.5	2.1	104	2.01	3.7	2.1	0.6	4	0.2	0.5	0.5	54	0.03	0.034	7
L56894+00N 7090+00E	Soil	0.7	6.0	9.4	8	0.2	5.7	1.8	36	0.97	2.4	2.4	0.2	3	<0.1	0.2	0.2	43	0.04	0.027	6
REP L56894+00N 7090+00E	QC	0.7	5.5	9.1	8	0.2	5.2	1.7	36	0.98	2.4	1.4	0.2	3	<0.1	0.1	0.2	44	0.04	0.027	6
L56895+00N 7086+25E	Soil	1.4	26.6	21.9	84	1.0	12.5	6.5	328	3.75	7.8	1.3	1.4	7	0.6	0.3	0.3	68	0.09	0.085	7
REP L56895+00N 7086+25E	QC	1.3	27.0	22.2	84	1.1	13.3	6.5	328	3.70	8.2	<0.5	1.3	7	0.5	0.3	0.3	68	0.08	0.088	7
L56895+00N 7092+25E	Soil	1.0	20.2	10.3	37	0.3	12.7	4.5	200	2.49	5.1	1.5	0.3	7	0.3	0.2	0.2	66	0.10	0.039	7
REP L56895+00N 7092+25E	QC	1.1	21.4	10.5	38	0.3	12.0	4.1	203	2.51	5.4	8.9	0.3	7	0.2	0.3	0.3	68	0.11	0.042	7
L56896+00N 7089+50E	Soil	0.8	11.0	11.6	14	0.5	5.0	1.6	53	1.15	2.5	10.6	0.1	6	0.2	0.2	0.2	47	0.08	0.037	6
REP L56896+00N 7089+50E	QC	0.6	11.1	11.8	15	0.5	4.8	1.6	53	1.17	2.5	19.9	0.1	6	0.2	0.2	0.2	46	0.08	0.036	6
L56896+00N 7091+75E	Soil	0.7	9.9	16.6	28	0.4	9.0	3.5	128	1.70	4.1	1.8	0.6	10	<0.1	0.2	0.2	65	0.18	0.033	6
REP L56896+00N 7091+75E	QC	0.8	11.6	17.2	29	0.4	9.4	3.6	138	1.69	4.9	8.9	0.5	10	<0.1	0.2	0.2	70	0.19	0.040	7
L56897+00N 7084+50E	Soil	0.9	72.0	10.5	53	1.9	27.3	19.7	1058	2.43	7.8	4.5	<0.1	21	0.3	0.2	<0.1	57	0.75	0.100	12
REP L56897+00N 7084+50E	QC	0.8	75.3	10.8	54	1.9	27.5	20.2	1108	2.48	8.1	1.5	<0.1	21	0.2	<0.1	<0.1	57	0.75	0.111	12
L56897+00N 7086+50E	Soil	1.3	59.0	12.9	85	1.5	34.3	6.8	474	2.31	8.2	8.5	0.2	23	0.5	0.3	0.3	46	0.34	0.144	10
REP L56897+00N 7086+50E	QC	1.5	59.7	13.5	86	1.5	35.6	7.0	487	2.35	8.3	4.5	0.2	24	0.6	0.3	0.3	47	0.35	0.153	10
L56897+00N 7091+75E	Soil	0.8	12.1	23.4	26	0.2	7.4	2.6	128	1.28	5.4	8.2	0.3	6	0.2	0.4	0.3	86	0.12	0.042	7
REP L56897+00N 7091+75E	QC	1.0	12.7	24.2	28	0.2	6.7	2.6	130	1.29	6.6	10.8	0.3	7	0.2	0.4	0.2	89	0.13	0.044	8

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
L56891+00N 7088+50E	Soil	21	0.15	41	0.044	<1	1.14	0.007	0.04	<0.1	0.09	0.6	<0.1	<0.05	7	<0.5	<0.2
REP L56891+00N 7088+50E	QC	21	0.15	41	0.049	<1	1.14	0.007	0.04	<0.1	0.08	0.6	<0.1	<0.05	7	<0.5	<0.2
L56892+00N 7086+25E	Soil	25	0.24	51	0.064	1	2.08	0.012	0.04	0.1	0.05	1.5	<0.1	<0.05	8	<0.5	<0.2
REP L56892+00N 7086+25E	QC	25	0.23	52	0.062	<1	2.13	0.012	0.04	<0.1	0.06	1.6	<0.1	<0.05	8	0.7	<0.2
L56892+00N 7089+75E	Soil	14	0.09	124	0.066	1	0.55	0.009	0.03	0.1	0.06	0.4	<0.1	0.05	6	<0.5	<0.2
REP L56892+00N 7089+75E	QC	13	0.09	120	0.063	<1	0.50	0.008	0.03	0.1	0.05	0.5	<0.1	0.07	6	<0.5	<0.2
L56893+00N 7086+25E	Soil	11	0.13	71	0.039	2	0.83	0.016	0.03	<0.1	0.10	0.8	<0.1	0.06	4	0.7	<0.2
REP L56893+00N 7086+25E	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56893+00N 7089+50E	Soil	19	0.21	103	0.048	2	1.61	0.011	0.03	<0.1	0.06	1.5	<0.1	0.05	10	0.7	<0.2
REP L56893+00N 7089+50E	QC	19	0.21	103	0.042	2	1.62	0.011	0.03	0.1	0.07	1.6	<0.1	0.06	11	0.9	<0.2
L56894+00N 7086+25E	Soil	12	0.05	48	0.093	2	0.67	0.009	0.02	0.1	0.05	0.6	<0.1	<0.05	9	<0.5	<0.2
REP L56894+00N 7086+25E	QC	13	0.05	49	0.102	1	0.70	0.010	0.02	0.1	0.06	0.7	<0.1	<0.05	10	<0.5	<0.2
L56894+00N 7090+00E	Soil	26	0.12	36	0.099	<1	1.33	0.006	0.01	<0.1	0.05	0.9	<0.1	<0.05	6	<0.5	<0.2
REP L56894+00N 7090+00E	QC	27	0.12	35	0.097	<1	1.26	0.007	0.01	<0.1	0.06	1.0	<0.1	<0.05	6	<0.5	<0.2
L56895+00N 7086+25E	Soil	33	0.25	79	0.186	<1	1.76	0.007	0.03	0.2	0.14	1.6	<0.1	0.11	9	<0.5	<0.2
REP L56895+00N 7086+25E	QC	34	0.26	82	0.190	<1	1.80	0.008	0.03	0.2	0.14	1.7	<0.1	0.12	9	<0.5	<0.2
L56895+00N 7092+25E	Soil	27	0.26	93	0.123	<1	1.16	0.010	0.03	0.1	0.05	1.1	<0.1	<0.05	8	<0.5	<0.2
REP L56895+00N 7092+25E	QC	28	0.27	95	0.147	3	1.19	0.010	0.03	0.2	0.06	1.1	<0.1	<0.05	8	<0.5	<0.2
L56896+00N 7089+50E	Soil	17	0.09	77	0.116	<1	0.78	0.009	0.02	<0.1	0.05	0.6	<0.1	<0.05	7	<0.5	<0.2
REP L56896+00N 7089+50E	QC	17	0.09	76	0.116	<1	0.80	0.009	0.02	<0.1	0.05	0.5	<0.1	<0.05	7	<0.5	<0.2
L56896+00N 7091+75E	Soil	21	0.18	95	0.152	2	0.57	0.009	0.03	0.1	0.05	0.9	<0.1	<0.05	6	<0.5	<0.2
REP L56896+00N 7091+75E	QC	22	0.19	103	0.178	2	0.64	0.009	0.03	0.2	0.06	1.0	<0.1	<0.05	7	<0.5	<0.2
L56897+00N 7084+50E	Soil	45	0.33	179	0.050	<1	2.61	0.013	0.05	0.1	0.10	2.6	<0.1	0.05	8	0.8	<0.2
REP L56897+00N 7084+50E	QC	47	0.34	186	0.068	2	2.66	0.014	0.05	0.2	0.14	2.7	<0.1	<0.05	9	1.3	<0.2
L56897+00N 7086+50E	Soil	39	0.37	184	0.034	1	2.09	0.019	0.06	<0.1	0.07	1.9	<0.1	0.09	8	1.2	<0.2
REP L56897+00N 7086+50E	QC	40	0.39	191	0.036	1	2.17	0.020	0.06	<0.1	0.07	1.9	<0.1	0.09	9	1.5	<0.2
L56897+00N 7091+75E	Soil	22	0.18	62	0.173	<1	0.53	0.011	0.04	0.1	0.08	0.7	<0.1	0.05	6	<0.5	<0.2
REP L56897+00N 7091+75E	QC	24	0.17	66	0.179	<1	0.56	0.011	0.04	0.1	0.07	0.9	<0.1	<0.05	6	<0.5	<0.2

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Client: **PAC Geological Consulting Inc.**
3707 W. 34th Ave.
Vancouver BC V6N 2C9 Canada

Project: CCS 2011
Report Date: September 03, 2011

QUALITY CONTROL REPORT VAN11003591.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Reference Materials																					
STD DS8	Standard	14.3	110.2	127.9	314	1.8	38.0	7.6	631	2.49	26.6	114.7	7.5	72	2.2	6.3	6.9	44	0.74	0.079	17
STD DS8	Standard	12.0	108.3	119.4	299	1.8	37.0	7.4	579	2.35	26.1	110.9	6.5	64	2.0	5.6	6.6	49	0.65	0.077	13
STD DS8	Standard	12.1	105.6	122.7	302	1.8	36.1	7.2	574	2.31	24.6	135.0	6.1	60	2.1	5.5	5.8	39	0.65	0.076	14
STD DS8	Standard	11.1	99.8	113.6	284	1.7	34.2	6.7	547	2.23	22.9	99.7	5.7	57	2.2	5.1	5.6	37	0.58	0.072	12
STD DS8	Standard	13.4	103.9	128.5	312	1.8	37.7	7.7	616	2.43	25.3	110.8	7.2	65	2.6	5.4	6.7	41	0.69	0.082	16
STD DS8	Standard	13.6	108.7	126.0	309	1.7	37.3	7.5	632	2.49	25.8	115.0	6.9	68	2.5	5.8	6.3	43	0.66	0.081	15
STD DS8	Standard	13.8	118.7	131.6	331	1.9	40.3	7.9	645	2.60	26.8	118.4	6.7	69	2.3	5.7	6.3	44	0.72	0.082	16
STD DS8	Standard	13.5	109.6	124.3	307	1.8	37.6	7.4	619	2.42	23.7	123.4	5.9	65	2.1	5.4	5.9	42	0.69	0.081	16
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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Client: **PAC Geological Consulting Inc.**
3707 W. 34th Ave.
Vancouver BC V6N 2C9 Canada

Project: CCS 2011
Report Date: September 03, 2011

QUALITY CONTROL REPORT VAN11003591.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Reference Materials																	
STD DS8	Standard	123	0.61	292	0.135	3	0.95	0.103	0.43	3.0	0.20	2.7	5.2	0.15	5	5.0	4.9
STD DS8	Standard	113	0.62	258	0.108	6	0.86	0.084	0.41	3.0	0.20	2.0	5.3	0.16	4	4.9	4.5
STD DS8	Standard	106	0.59	262	0.108	3	0.86	0.079	0.39	3.2	0.18	1.7	5.5	0.16	5	5.7	5.1
STD DS8	Standard	104	0.55	246	0.097	2	0.81	0.075	0.36	2.7	0.21	1.7	5.1	0.14	4	4.9	4.0
STD DS8	Standard	114	0.61	279	0.114	3	0.91	0.087	0.40	3.1	0.20	2.1	5.6	0.11	5	5.5	5.1
STD DS8	Standard	116	0.60	276	0.119	2	0.89	0.083	0.39	3.0	0.17	2.1	5.5	0.15	5	4.8	4.8
STD DS8	Standard	123	0.64	299	0.123	3	0.95	0.087	0.43	3.2	0.21	2.1	5.7	0.11	5	4.9	5.6
STD DS8	Standard	113	0.61	279	0.119	2	0.89	0.082	0.42	3.1	0.19	2.0	5.5	0.15	5	5.7	5.5
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Client: **PAC Geological Consulting Inc.**
3707 W. 34th Ave.
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Submitted By: Peter Christopher
Receiving Lab: Canada-Vancouver
Received: July 30, 2011
Report Date: September 18, 2011
Page: 1 of 9

CERTIFICATE OF ANALYSIS VAN11003590.1

CLIENT JOB INFORMATION

Project: CCS 2011
Shipment ID:
P.O. Number
Number of Samples: 227

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	227	Dry at 60C			VAN
SS80	227	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	227	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: PAC Geological Consulting Inc.
3707 W. 34th Ave.
Vancouver BC V6N 2C9
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" 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: CCS 2011
Report Date: September 18, 2011

CERTIFICATE OF ANALYSIS VAN11003590.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56879+00N 7080+00E	Soil		1.0	16.3	8.2	39	0.2	19.5	6.5	136	2.98	5.5	1.6	0.9	8	0.4	0.2	0.2	75	0.16	0.036	5
L56879+00N 7080+25E	Soil		1.6	24.9	10.9	44	0.3	27.5	16.8	567	2.82	6.6	1.3	1.3	11	0.5	0.3	0.2	81	0.23	0.045	6
L56879+00N 7080+50E	Soil		0.7	21.0	6.1	39	0.2	26.4	8.9	237	3.35	5.8	11.4	1.1	6	0.2	0.2	0.2	92	0.15	0.041	4
L56879+00N 7080+75E	Soil		0.7	10.7	8.2	33	<0.1	14.4	5.0	132	2.35	3.1	2.6	1.1	7	0.1	0.2	0.2	78	0.12	0.039	5
L56879+00N 7081+00E	Soil		1.1	12.5	10.0	23	0.2	9.2	3.0	125	2.15	2.8	1.9	0.6	9	0.3	0.1	0.2	53	0.18	0.039	5
L56879+00N 7081+25E	Soil		0.9	19.8	11.5	28	0.5	9.4	8.6	252	2.05	10.4	7.8	0.8	8	0.3	0.2	0.3	51	0.23	0.035	11
L56879+00N 7081+50E	Soil		1.1	15.6	9.2	40	0.4	20.1	6.0	171	3.03	6.4	5.8	1.6	7	0.3	0.3	0.2	63	0.11	0.037	7
L56879+00N 7081+75E	Soil		1.1	12.7	9.7	38	0.1	14.0	6.7	319	2.18	2.9	2.5	0.5	12	0.2	0.2	0.2	57	0.34	0.049	6
L56879+00N 7082+00E	Soil		1.1	15.1	11.7	38	0.2	9.0	8.2	583	1.89	3.4	<0.5	0.2	10	0.2	0.1	0.3	40	0.27	0.053	7
L56879+00N 7082+25E	Soil		0.9	14.6	8.7	20	0.2	9.7	4.0	132	1.52	1.4	0.9	0.3	7	0.3	0.1	0.3	41	0.11	0.034	5
L56879+00N 7082+50E	Soil		1.1	188.1	12.3	56	1.0	64.0	30.4	1310	2.91	26.5	2.8	0.7	16	0.6	0.4	0.2	69	0.56	0.077	30
L56879+00N 7082+75E	Soil		1.3	25.7	9.2	45	0.3	24.6	9.7	664	2.45	4.4	1.5	0.3	6	0.4	0.2	0.2	56	0.11	0.050	8
L56879+00N 7083+00E	Soil		0.7	13.4	9.8	30	0.2	13.5	3.7	131	1.62	2.1	<0.5	<0.1	8	0.2	0.1	0.3	46	0.14	0.047	4
L56879+00N 7083+25E	Soil		1.0	28.8	10.3	56	0.2	17.2	10.1	1209	2.01	6.7	<0.5	0.2	7	0.2	0.2	0.2	41	0.08	0.066	7
L56879+00N 7083+50E	Soil		1.0	71.8	11.8	81	0.3	50.2	16.1	497	2.95	20.7	0.6	1.3	9	0.3	0.3	0.2	61	0.23	0.059	10
L56879+00N 7083+75E	Soil		0.9	9.7	9.1	22	<0.1	12.9	3.9	120	1.79	2.7	<0.5	0.4	5	0.2	0.2	0.2	54	0.09	0.032	4
L56879+00N 7084+00E	Soil		0.8	9.9	10.0	30	<0.1	11.4	3.3	101	2.13	3.3	10.1	0.6	5	0.2	0.2	0.2	53	0.09	0.027	5
L56879+00N 7084+25E	Soil		0.8	12.0	8.5	29	0.1	18.9	5.3	126	2.60	3.6	13.3	1.4	5	0.1	0.3	0.2	73	0.09	0.030	5
L56879+00N 7084+50E	Soil		0.8	10.4	8.7	30	<0.1	17.9	5.9	337	2.37	3.2	2.8	1.0	5	0.2	0.2	0.2	79	0.09	0.028	5
L56879+00N 7084+75E	Soil		0.8	68.5	13.0	74	1.0	47.9	15.0	617	3.01	26.4	1.9	1.1	13	0.6	0.2	0.3	66	0.39	0.066	11
L56879+00N 7085+00E	Soil		0.7	64.6	10.5	70	0.5	50.4	14.7	994	2.73	33.6	1.2	0.6	17	0.5	0.4	0.2	64	0.70	0.079	12
L56879+00N 7085+25E	Soil		0.6	27.6	5.8	52	0.2	49.9	14.9	280	2.91	9.8	2.0	1.9	7	0.2	0.3	<0.1	62	0.25	0.033	8
L56879+00N 7085+50E	Soil		0.7	14.8	8.3	35	0.3	18.4	5.9	137	2.36	3.4	8.7	1.4	5	0.2	0.1	0.2	60	0.11	0.023	6
L56879+00N 7085+75E	Soil		0.9	10.6	9.0	38	0.2	18.2	5.5	170	2.41	3.4	1.6	1.1	5	0.2	0.2	0.2	63	0.10	0.033	7
L56879+00N 7086+00E	Soil		0.9	29.4	8.7	49	0.4	37.9	10.5	197	2.83	9.3	1.5	2.2	7	0.3	0.2	0.2	67	0.16	0.037	7
L56879+00N 7086+25E	Soil		0.9	13.2	9.5	40	0.3	18.4	7.1	408	2.45	3.8	<0.5	0.6	7	0.3	0.3	0.2	66	0.13	0.049	6
L56879+00N 7086+50E	Soil		0.8	13.3	9.0	34	0.2	16.2	5.8	229	2.36	3.2	1.1	0.7	4	0.2	0.2	0.2	60	0.08	0.030	5
L56880+00N 7070+00E	Soil		0.7	14.8	7.7	39	0.3	16.1	6.0	177	2.36	3.2	1.2	0.6	8	0.3	0.2	0.2	66	0.18	0.042	5
L56880+00N 7070+25E	Soil		0.6	13.2	11.2	34	0.2	10.2	4.3	258	1.89	1.8	0.8	0.5	9	0.2	0.2	0.2	62	0.18	0.045	5
L56880+00N 7070+50E	Soil		0.6	13.7	8.7	29	0.2	11.8	4.9	231	2.17	2.1	1.4	0.6	6	0.2	0.2	0.2	68	0.12	0.035	5

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Client: **PAC Geological Consulting Inc.**
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Vancouver BC V6N 2C9 Canada

Project: CCS 2011
Report Date: September 18, 2011

CERTIFICATE OF ANALYSIS VAN11003590.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56879+00N 7080+00E	Soil	47	0.44	90	0.190	1	1.35	0.009	0.03	<0.1	0.06	1.5	<0.1	<0.05	9	0.6	<0.2
L56879+00N 7080+25E	Soil	64	0.63	146	0.198	1	1.82	0.011	0.04	0.1	0.08	2.4	<0.1	<0.05	8	0.7	<0.2
L56879+00N 7080+50E	Soil	61	0.64	88	0.251	1	1.31	0.011	0.02	<0.1	0.04	1.9	<0.1	<0.05	6	0.6	<0.2
L56879+00N 7080+75E	Soil	37	0.32	90	0.217	<1	0.87	0.007	0.02	<0.1	0.05	1.3	<0.1	<0.05	6	<0.5	<0.2
L56879+00N 7081+00E	Soil	30	0.17	79	0.119	<1	1.14	0.010	0.03	<0.1	0.06	0.9	<0.1	<0.05	8	0.5	<0.2
L56879+00N 7081+25E	Soil	32	0.16	116	0.110	<1	1.49	0.012	0.03	0.1	0.04	1.7	<0.1	<0.05	8	0.6	<0.2
L56879+00N 7081+50E	Soil	49	0.41	79	0.151	2	1.44	0.010	0.03	0.1	0.06	1.5	<0.1	<0.05	8	<0.5	<0.2
L56879+00N 7081+75E	Soil	31	0.30	130	0.129	1	1.08	0.012	0.03	0.1	0.05	1.3	<0.1	<0.05	8	<0.5	<0.2
L56879+00N 7082+00E	Soil	21	0.18	99	0.080	1	1.10	0.013	0.03	0.1	0.03	1.1	<0.1	<0.05	9	<0.5	<0.2
L56879+00N 7082+25E	Soil	25	0.13	99	0.089	<1	0.89	0.010	0.02	<0.1	0.03	0.9	<0.1	<0.05	7	0.5	<0.2
L56879+00N 7082+50E	Soil	117	0.78	282	0.072	2	3.06	0.014	0.06	<0.1	0.08	8.3	<0.1	0.08	7	1.6	<0.2
L56879+00N 7082+75E	Soil	48	0.41	142	0.094	<1	1.52	0.010	0.03	<0.1	0.06	1.4	<0.1	<0.05	8	<0.5	<0.2
L56879+00N 7083+00E	Soil	32	0.25	116	0.075	1	0.65	0.010	0.03	<0.1	0.04	0.6	<0.1	<0.05	6	<0.5	<0.2
L56879+00N 7083+25E	Soil	31	0.24	139	0.065	1	2.28	0.013	0.03	<0.1	0.05	1.5	<0.1	<0.05	9	0.7	<0.2
L56879+00N 7083+50E	Soil	73	0.54	176	0.094	1	3.31	0.011	0.04	0.1	0.05	4.5	<0.1	<0.05	8	0.8	<0.2
L56879+00N 7083+75E	Soil	34	0.28	56	0.120	<1	0.77	0.008	0.02	<0.1	0.05	0.8	<0.1	<0.05	7	<0.5	<0.2
L56879+00N 7084+00E	Soil	30	0.22	82	0.138	<1	1.08	0.010	0.02	0.1	0.04	1.0	<0.1	<0.05	9	<0.5	<0.2
L56879+00N 7084+25E	Soil	50	0.40	62	0.183	1	1.09	0.010	0.02	0.1	0.07	1.3	<0.1	<0.05	7	<0.5	<0.2
L56879+00N 7084+50E	Soil	46	0.36	71	0.191	1	0.89	0.009	0.02	0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2
L56879+00N 7084+75E	Soil	80	0.54	161	0.103	2	3.80	0.015	0.04	0.1	0.09	4.5	<0.1	<0.05	11	0.6	<0.2
L56879+00N 7085+00E	Soil	93	0.70	156	0.070	1	2.61	0.012	0.05	<0.1	0.06	5.4	<0.1	<0.05	7	0.7	<0.2
L56879+00N 7085+25E	Soil	80	0.98	87	0.148	1	1.90	0.007	0.04	<0.1	0.04	2.7	<0.1	<0.05	5	<0.5	<0.2
L56879+00N 7085+50E	Soil	45	0.38	81	0.126	<1	1.53	0.009	0.02	0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
L56879+00N 7085+75E	Soil	42	0.41	91	0.132	<1	1.34	0.010	0.02	0.1	0.04	1.4	<0.1	<0.05	8	<0.5	<0.2
L56879+00N 7086+00E	Soil	75	0.63	118	0.153	1	2.56	0.008	0.03	0.2	0.07	2.9	<0.1	<0.05	8	<0.5	<0.2
L56879+00N 7086+25E	Soil	43	0.37	74	0.118	<1	0.99	0.007	0.04	0.1	0.05	1.2	<0.1	<0.05	7	<0.5	<0.2
L56879+00N 7086+50E	Soil	37	0.33	68	0.118	<1	1.14	0.008	0.02	<0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7070+00E	Soil	37	0.42	90	0.172	<1	1.19	0.009	0.02	<0.1	0.08	1.4	<0.1	<0.05	6	<0.5	<0.2
L56880+00N 7070+25E	Soil	26	0.22	89	0.179	1	0.79	0.008	0.03	<0.1	0.05	1.0	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7070+50E	Soil	30	0.28	69	0.186	<1	1.07	0.008	0.02	<0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2

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Project: CCS 2011
Report Date: September 18, 2011

CERTIFICATE OF ANALYSIS VAN11003590.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56880+00N 7070+75E	Soil	0.9	13.2	10.4	19	0.2	7.2	2.7	82	1.56	1.3	1.2	0.2	7	0.2	0.1	0.2	52	0.10	0.038	5
L56880+00N 7071+00E	Soil	1.0	18.1	9.4	51	<0.1	23.4	12.0	284	2.88	13.4	1.4	1.8	9	0.1	0.2	0.2	77	0.26	0.023	6
L56880+00N 7071+25E	Soil	1.6	20.8	9.0	75	<0.1	20.8	13.8	1316	2.52	72.6	<0.5	0.5	16	0.4	0.2	0.2	72	0.61	0.060	6
L56880+00N 7071+50E	Soil	1.2	17.8	10.1	55	0.1	20.2	13.3	485	2.97	3.7	<0.5	0.8	13	0.2	0.2	0.2	73	0.50	0.037	7
L56880+00N 7071+75E	Soil	1.6	20.9	14.5	23	0.1	6.9	3.5	488	0.34	8.1	1.0	0.1	47	0.8	0.5	0.1	38	2.88	0.097	1
L56880+00N 7072+00E	Soil	1.3	27.9	11.2	57	0.2	19.5	14.2	842	2.87	6.1	0.6	0.4	18	0.4	0.2	0.3	68	0.56	0.084	7
L56880+00N 7072+25E	Soil	1.1	70.0	13.8	85	0.4	46.3	20.6	896	3.52	12.5	<0.5	0.5	22	0.6	0.2	0.3	82	0.61	0.057	15
L56880+00N 7072+50E	Soil	2.8	30.5	8.3	32	0.8	12.4	7.8	1285	1.24	2.9	2.1	<0.1	33	1.0	0.4	0.4	38	1.86	0.127	7
L56880+00N 7072+75E	Soil	1.4	22.4	10.0	45	0.2	18.8	11.3	556	2.84	4.9	0.8	0.6	10	0.3	0.2	0.2	68	0.28	0.036	6
L56880+00N 7073+00E	Soil	0.7	32.9	8.9	66	0.2	17.1	14.0	1192	2.45	15.2	0.5	0.2	11	0.4	0.1	0.2	58	0.57	0.077	8
L56880+00N 7073+25E	Soil	1.6	19.9	9.2	48	0.1	16.1	12.5	812	2.53	17.6	0.8	0.3	10	0.4	0.2	0.2	63	0.42	0.053	5
L56880+00N 7073+50E	Soil	1.1	17.7	8.6	53	0.1	15.4	12.8	802	3.02	3.1	3.4	0.8	8	0.3	0.2	0.2	78	0.25	0.042	5
L56880+00N 7073+75E	Soil	0.9	21.8	8.1	48	0.1	17.3	10.3	460	2.93	3.5	5.5	0.7	7	0.2	0.2	0.2	77	0.16	0.035	5
L56880+00N 7074+00E	Soil	0.8	36.8	7.7	48	0.2	20.1	24.2	1010	2.71	3.9	0.9	0.4	8	0.3	0.1	0.2	72	0.31	0.051	8
L56880+00N 7074+25E	Soil	0.7	16.3	7.7	40	<0.1	14.7	6.9	357	2.58	3.0	1.5	0.4	11	0.2	0.2	0.2	72	0.22	0.041	4
L56880+00N 7074+50E	Soil	0.9	36.5	7.7	45	0.1	19.8	11.7	748	2.57	4.7	<0.5	0.3	8	0.3	0.2	0.2	66	0.17	0.063	4
L56880+00N 7074+75E	Soil	0.8	23.7	8.8	51	0.1	16.4	8.6	724	2.45	4.0	<0.5	0.3	11	0.2	0.2	0.2	57	0.27	0.064	3
L56880+00N 7075+00E	Soil	0.8	29.0	8.1	59	<0.1	22.3	10.9	778	2.92	3.9	1.3	0.7	8	0.2	0.2	0.2	72	0.15	0.048	4
L56880+00N 7075+25E	Soil	0.6	21.6	10.3	48	<0.1	16.3	6.3	334	1.91	3.1	3.6	0.3	13	0.2	0.2	0.2	48	0.25	0.043	3
L56880+00N 7075+50E	Soil	0.8	22.8	14.2	50	<0.1	27.1	8.7	377	2.64	4.7	2.2	0.7	9	0.2	0.3	0.3	65	0.18	0.052	4
L56880+00N 7075+75E	Soil	0.5	35.2	8.8	71	0.1	29.2	9.5	813	2.61	4.1	5.1	0.7	8	0.3	0.2	0.2	63	0.14	0.089	4
L56880+00N 7076+00E	Soil	0.9	16.8	11.2	39	<0.1	13.4	5.6	249	2.16	3.0	1.6	0.7	6	0.2	0.2	0.3	55	0.12	0.030	3
L56880+00N 7076+25E	Soil	1.3	20.0	9.0	39	0.1	21.1	8.3	321	2.49	4.2	7.7	0.6	7	0.2	0.2	0.2	62	0.19	0.039	4
L56880+00N 7076+50E	Soil	0.9	50.8	9.6	36	0.3	16.5	12.0	690	1.79	35.5	1.2	0.4	19	0.5	0.4	0.2	49	1.43	0.050	7
L56880+00N 7076+75E	Soil	0.8	17.8	8.1	27	0.1	14.5	5.0	123	2.24	2.3	1.0	0.5	11	0.2	0.2	0.2	63	0.19	0.031	3
L56880+00N 7077+00E	Soil	1.2	38.8	9.7	10	0.8	10.7	24.5	1438	0.44	5.1	1.1	<0.1	27	1.7	1.4	0.1	17	2.05	0.127	14
L56880+00N 7077+25E	Soil	0.6	14.5	7.3	34	0.1	17.1	5.8	212	2.40	2.7	0.7	0.6	8	0.1	0.2	0.2	74	0.16	0.034	4
L56880+00N 7077+50E	Soil	0.5	10.9	9.3	31	0.2	12.9	4.1	163	2.23	2.4	1.8	0.6	5	0.2	0.2	0.2	64	0.08	0.037	4
L56880+00N 7077+75E	Soil	0.9	16.1	9.6	34	0.2	15.1	8.3	287	2.02	2.5	1.5	0.3	6	0.3	0.2	0.2	55	0.08	0.033	6
L56880+00N 7078+00E	Soil	0.7	14.6	10.6	43	0.2	18.7	5.8	232	2.55	4.9	1.2	0.8	8	0.2	0.3	0.2	69	0.15	0.051	4

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CERTIFICATE OF ANALYSIS VAN11003590.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56880+00N 7070+75E	Soil	20	0.14	97	0.141	<1	0.86	0.010	0.02	<0.1	0.05	0.8	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7071+00E	Soil	45	0.63	156	0.190	1	1.53	0.010	0.03	0.1	0.03	2.5	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7071+25E	Soil	36	0.50	79	0.086	1	1.66	0.013	0.03	<0.1	0.05	2.2	<0.1	<0.05	7	0.5	<0.2
L56880+00N 7071+50E	Soil	40	0.48	134	0.160	<1	1.33	0.012	0.03	<0.1	0.04	2.1	<0.1	<0.05	8	0.7	<0.2
L56880+00N 7071+75E	Soil	9	0.10	89	0.008	7	0.23	0.018	0.04	<0.1	0.16	0.6	<0.1	0.27	<1	3.0	<0.2
L56880+00N 7072+00E	Soil	39	0.41	211	0.094	1	1.29	0.009	0.05	<0.1	0.05	1.7	<0.1	0.07	7	0.5	<0.2
L56880+00N 7072+25E	Soil	79	0.83	449	0.075	2	2.77	0.013	0.07	<0.1	0.05	6.5	<0.1	<0.05	9	0.7	<0.2
L56880+00N 7072+50E	Soil	21	0.17	156	0.032	3	1.17	0.020	0.04	<0.1	0.18	0.8	<0.1	0.16	4	1.8	<0.2
L56880+00N 7072+75E	Soil	35	0.39	150	0.127	<1	1.39	0.010	0.03	<0.1	0.04	1.8	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7073+00E	Soil	28	0.34	102	0.064	1	1.81	0.012	0.03	<0.1	0.04	1.8	<0.1	0.05	7	<0.5	<0.2
L56880+00N 7073+25E	Soil	31	0.41	93	0.108	<1	1.26	0.011	0.04	<0.1	0.05	1.5	<0.1	0.05	7	0.7	<0.2
L56880+00N 7073+50E	Soil	33	0.41	119	0.182	<1	1.31	0.010	0.03	<0.1	0.04	1.8	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7073+75E	Soil	35	0.47	83	0.194	<1	1.43	0.009	0.03	<0.1	0.04	1.7	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7074+00E	Soil	34	0.47	93	0.105	1	1.69	0.012	0.03	<0.1	0.04	2.1	<0.1	0.06	7	<0.5	<0.2
L56880+00N 7074+25E	Soil	29	0.37	138	0.162	<1	0.96	0.008	0.05	<0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7074+50E	Soil	33	0.42	63	0.106	<1	1.37	0.008	0.04	<0.1	0.05	1.3	<0.1	0.06	7	<0.5	<0.2
L56880+00N 7074+75E	Soil	25	0.35	72	0.099	1	1.08	0.008	0.04	<0.1	0.05	1.1	<0.1	0.06	8	0.6	<0.2
L56880+00N 7075+00E	Soil	41	0.52	119	0.161	<1	1.40	0.008	0.03	<0.1	0.04	1.7	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7075+25E	Soil	31	0.31	131	0.097	<1	0.84	0.009	0.04	<0.1	0.04	1.0	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7075+50E	Soil	50	0.55	130	0.142	1	1.17	0.008	0.05	<0.1	0.06	1.7	<0.1	<0.05	7	0.7	<0.2
L56880+00N 7075+75E	Soil	44	0.45	155	0.136	<1	1.43	0.010	0.03	<0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7076+00E	Soil	29	0.25	64	0.137	<1	0.77	0.009	0.03	0.1	0.03	1.0	<0.1	<0.05	8	0.5	<0.2
L56880+00N 7076+25E	Soil	46	0.39	68	0.152	<1	1.02	0.012	0.03	<0.1	0.04	1.4	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7076+50E	Soil	46	0.21	91	0.083	<1	1.57	0.013	0.02	<0.1	0.16	3.0	<0.1	0.08	6	2.1	<0.2
L56880+00N 7076+75E	Soil	34	0.26	98	0.176	<1	0.85	0.010	0.02	<0.1	0.04	1.1	<0.1	<0.05	7	0.5	<0.2
L56880+00N 7077+00E	Soil	19	0.10	75	0.011	3	1.25	0.030	0.07	<0.1	0.23	0.8	<0.1	0.17	1	2.4	<0.2
L56880+00N 7077+25E	Soil	38	0.46	114	0.184	<1	0.95	0.008	0.02	<0.1	0.02	1.4	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7077+50E	Soil	33	0.32	56	0.179	<1	0.89	0.009	0.03	<0.1	0.03	1.1	<0.1	<0.05	7	0.5	<0.2
L56880+00N 7077+75E	Soil	27	0.28	77	0.117	<1	1.26	0.012	0.02	<0.1	0.04	1.3	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7078+00E	Soil	41	0.43	74	0.182	<1	0.97	0.010	0.02	<0.1	0.08	1.3	<0.1	<0.05	7	<0.5	<0.2

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CERTIFICATE OF ANALYSIS VAN11003590.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56880+00N 7078+25E	Soil		0.7	11.7	9.2	26	0.3	10.4	4.4	214	1.94	1.9	<0.5	0.4	6	0.2	0.1	0.2	53	0.08	0.036	4
L56880+00N 7078+50E	Soil		0.8	13.4	9.0	28	0.3	14.8	4.5	135	2.11	3.4	2.6	0.7	5	0.1	0.2	0.2	57	0.08	0.033	5
L56880+00N 7078+75E	Soil		0.9	16.2	9.1	31	0.9	16.9	5.2	165	2.30	3.5	1.8	0.5	8	0.2	0.2	0.2	62	0.12	0.033	5
L56880+00N 7079+00E	Soil		0.6	11.9	10.5	21	0.3	10.3	3.4	117	1.56	2.3	7.7	0.4	6	0.3	0.2	0.2	47	0.07	0.034	5
L56880+00N 7079+25E	Soil		0.6	11.6	10.8	37	0.2	16.7	7.0	493	2.30	4.2	7.5	0.7	8	0.1	0.3	0.2	60	0.13	0.041	6
L56880+00N 7079+50E	Soil		0.7	11.1	9.6	19	0.2	6.7	2.6	270	1.74	3.5	0.6	0.1	5	0.2	0.2	0.2	39	0.04	0.034	4
L56880+00N 7079+75E	Soil		0.7	16.1	8.4	35	0.2	19.5	6.4	204	2.40	3.6	1.7	0.7	7	0.3	0.2	0.1	70	0.12	0.031	6
L56880+00N 7080+25E	Soil		0.9	18.1	11.3	37	0.1	10.3	9.9	402	1.63	2.0	6.1	0.2	9	0.3	0.2	0.2	45	0.16	0.041	4
L56880+00N 7080+50E	Soil		1.1	28.6	8.4	24	0.4	14.4	6.4	145	2.42	4.3	0.8	0.6	7	0.3	0.2	0.2	50	0.13	0.032	8
L56880+00N 7080+75E	Soil		1.0	15.3	14.7	40	0.2	24.2	7.6	246	2.33	6.0	2.5	1.0	8	0.2	0.2	0.2	53	0.17	0.028	9
L56880+00N 7081+00E	Soil		1.2	20.1	12.5	59	0.4	26.0	12.4	404	2.29	4.9	1.8	0.7	15	0.4	0.2	0.2	55	0.43	0.035	5
L56880+00N 7081+25E	Soil		1.0	10.2	8.3	32	0.3	18.5	5.3	193	2.16	2.3	<0.5	0.4	8	0.2	0.2	0.2	57	0.16	0.037	4
L56880+00N 7081+50E	Soil		0.9	9.1	9.1	36	<0.1	17.5	5.3	293	1.94	1.9	2.7	0.4	7	<0.1	0.2	0.3	52	0.14	0.033	5
L56880+00N 7081+75E	Soil		0.8	11.0	8.1	39	0.1	21.6	6.5	341	2.05	3.2	2.1	0.4	8	<0.1	0.2	0.2	60	0.17	0.037	4
L56880+00N 7082+00E	Soil		1.3	17.9	9.8	32	0.2	13.1	4.4	231	1.95	3.6	1.1	0.2	5	0.2	0.2	0.2	47	0.08	0.042	5
L56880+00N 7082+25E	Soil		1.0	13.7	9.6	50	0.2	19.3	7.1	361	2.45	4.3	0.8	0.6	7	0.2	0.2	0.2	62	0.15	0.038	6
L56880+00N 7082+50E	Soil		1.4	18.5	9.3	61	0.2	22.1	7.1	290	2.53	4.6	2.5	0.4	6	0.5	0.2	0.2	58	0.12	0.051	6
L56880+00N 7082+75E	Soil		1.9	10.7	9.8	61	0.2	20.7	7.6	260	2.66	3.4	<0.5	0.9	6	0.2	0.2	0.2	64	0.11	0.034	6
L56880+00N 7083+00E	Soil		0.8	8.1	9.2	30	0.2	13.3	4.2	141	2.11	1.9	<0.5	0.6	6	0.1	0.2	0.2	65	0.11	0.037	5
L56880+00N 7083+25E	Soil		0.8	16.2	9.0	28	0.3	13.6	5.5	139	1.74	2.4	1.7	0.4	7	0.2	0.1	0.2	48	0.17	0.040	6
L56880+00N 7083+50E	Soil		0.9	10.3	10.2	36	<0.1	19.2	5.9	152	2.56	3.8	1.5	1.6	6	0.1	0.2	0.2	75	0.14	0.023	6
L56880+00N 7083+75E	Soil		0.8	9.6	8.6	30	0.2	17.1	4.6	125	2.09	2.4	<0.5	1.0	7	0.1	0.2	0.2	65	0.15	0.031	6
L56880+00N 7084+00E	Soil		0.8	14.9	8.2	43	<0.1	29.8	9.6	288	2.73	6.3	31.1	1.3	7	0.1	0.2	0.1	70	0.18	0.030	7
L56880+00N 7084+25E	Soil		0.9	10.6	9.9	39	<0.1	15.2	5.7	254	2.39	3.6	1.2	0.6	7	0.2	0.2	0.2	58	0.15	0.038	5
L56880+00N 7084+50E	Soil		0.9	13.6	10.2	51	<0.1	19.0	8.2	408	2.76	9.2	0.8	0.8	7	0.2	0.2	0.2	70	0.14	0.042	6
L56880+00N 7084+75E	Soil		0.9	12.4	10.4	37	<0.1	20.1	5.9	200	2.31	8.9	2.6	0.7	7	0.2	0.2	0.2	61	0.14	0.057	6
L56880+00N 7085+00E	Soil		0.9	9.9	9.9	39	<0.1	20.7	6.4	268	2.56	5.0	3.0	0.9	6	0.2	0.3	0.2	68	0.11	0.036	6
L56880+00N 7085+25E	Soil		0.7	9.3	8.6	32	0.1	15.2	4.9	181	2.21	2.7	7.2	0.8	6	0.1	0.2	0.2	64	0.09	0.033	6
L56880+00N 7085+50E	Soil		0.7	15.1	7.7	40	0.1	24.6	7.2	282	2.49	4.5	1.3	0.8	7	0.2	0.2	0.1	61	0.13	0.035	7
L56880+00N 7085+75E	Soil		0.9	9.1	9.3	34	0.2	12.6	4.9	366	2.26	2.4	4.2	0.8	6	0.1	0.2	0.2	60	0.10	0.032	6

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3707 W. 34th Ave.
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Project: CCS 2011
Report Date: September 18, 2011

CERTIFICATE OF ANALYSIS VAN11003590.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56880+00N 7078+25E	Soil	22	0.19	79	0.132	<1	0.99	0.010	0.02	<0.1	0.05	0.9	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7078+50E	Soil	32	0.30	73	0.159	<1	1.08	0.009	0.02	<0.1	0.05	1.4	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7078+75E	Soil	36	0.34	81	0.157	<1	1.34	0.010	0.03	<0.1	0.04	1.4	<0.1	<0.05	7	0.6	<0.2
L56880+00N 7079+00E	Soil	26	0.20	63	0.127	<1	0.87	0.009	0.03	<0.1	0.03	1.0	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7079+25E	Soil	34	0.32	116	0.143	<1	0.97	0.010	0.03	<0.1	0.04	1.3	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7079+50E	Soil	21	0.11	51	0.084	<1	0.68	0.012	0.02	<0.1	0.02	0.5	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7079+75E	Soil	44	0.46	91	0.152	<1	1.12	0.009	0.03	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
L56880+00N 7080+25E	Soil	26	0.17	251	0.081	1	0.55	0.009	0.03	<0.1	0.05	0.7	<0.1	<0.05	6	<0.5	<0.2
L56880+00N 7080+50E	Soil	41	0.22	93	0.125	2	1.64	0.014	0.02	0.1	0.07	2.1	<0.1	<0.05	9	0.6	<0.2
L56880+00N 7080+75E	Soil	49	0.48	194	0.105	<1	1.22	0.009	0.03	0.1	0.05	1.8	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7081+00E	Soil	48	0.52	301	0.111	<1	1.27	0.012	0.04	<0.1	0.07	1.8	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7081+25E	Soil	43	0.41	83	0.133	<1	0.95	0.009	0.03	0.1	0.05	1.2	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7081+50E	Soil	42	0.38	106	0.123	1	0.90	0.010	0.03	<0.1	0.06	0.9	<0.1	0.05	7	<0.5	<0.2
L56880+00N 7081+75E	Soil	51	0.47	144	0.116	1	0.94	0.009	0.02	<0.1	0.07	1.1	<0.1	<0.05	6	<0.5	<0.2
L56880+00N 7082+00E	Soil	31	0.24	103	0.099	1	1.11	0.010	0.03	0.1	0.08	0.9	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7082+25E	Soil	46	0.44	126	0.155	1	1.15	0.009	0.03	0.1	0.05	1.4	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7082+50E	Soil	51	0.49	105	0.120	1	1.26	0.009	0.03	0.1	0.06	1.3	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7082+75E	Soil	47	0.47	116	0.166	<1	1.18	0.009	0.03	0.1	0.06	1.4	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7083+00E	Soil	37	0.26	98	0.166	<1	0.78	0.009	0.02	0.1	0.07	1.0	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7083+25E	Soil	33	0.24	114	0.117	<1	1.13	0.010	0.04	<0.1	0.05	1.2	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7083+50E	Soil	48	0.39	82	0.170	<1	1.05	0.011	0.02	0.1	0.08	1.5	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7083+75E	Soil	40	0.35	103	0.154	<1	0.93	0.009	0.03	0.1	0.06	1.3	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7084+00E	Soil	57	0.59	146	0.142	<1	1.27	0.008	0.03	0.1	0.05	2.0	<0.1	<0.05	6	<0.5	<0.2
L56880+00N 7084+25E	Soil	33	0.31	93	0.115	<1	1.01	0.010	0.03	0.1	0.05	1.3	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7084+50E	Soil	44	0.38	108	0.140	1	1.11	0.009	0.03	0.2	0.02	1.6	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7084+75E	Soil	41	0.40	84	0.122	<1	0.93	0.010	0.03	0.1	0.05	1.3	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7085+00E	Soil	49	0.41	87	0.143	<1	0.93	0.008	0.03	0.1	0.05	1.3	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7085+25E	Soil	35	0.31	106	0.141	<1	0.85	0.008	0.02	0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
L56880+00N 7085+50E	Soil	47	0.49	84	0.130	<1	1.39	0.011	0.02	<0.1	0.04	1.7	<0.1	<0.05	6	<0.5	<0.2
L56880+00N 7085+75E	Soil	32	0.26	65	0.147	<1	0.96	0.010	0.03	0.1	0.02	1.2	<0.1	<0.05	8	<0.5	<0.2

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		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56880+00N 7086+00E	Soil		0.9	13.1	10.8	40	0.1	15.6	5.0	359	1.94	3.5	1.1	0.3	7	0.2	0.2	0.2	53	0.17	0.050	5
L56880+00N 7086+25E	Soil		0.8	16.1	8.6	44	<0.1	22.8	7.4	376	2.57	4.4	1.3	0.8	7	0.1	0.2	0.2	72	0.16	0.044	5
L56880+00N 7086+50E	Soil		1.3	21.3	10.6	43	0.2	14.6	6.9	469	2.07	4.5	0.7	0.2	9	0.3	0.2	0.3	48	0.21	0.057	5
L56880+00N 7086+75E	Soil		0.8	13.8	7.7	40	<0.1	18.3	7.9	490	2.63	4.6	1.5	0.7	6	0.1	0.2	0.2	75	0.12	0.044	5
L56880+00N 7087+00E	Soil		0.9	17.8	8.3	30	0.1	18.5	6.4	160	2.56	3.5	4.7	1.2	8	0.3	0.2	0.2	86	0.15	0.028	5
L56880+00N 7087+25E	Soil		0.8	22.8	8.6	49	0.2	30.2	12.2	293	2.77	5.0	3.7	0.8	10	0.2	0.2	0.2	66	0.18	0.034	11
L56880+00N 7087+50E	Soil		0.8	42.4	9.4	67	0.5	32.6	12.5	1336	2.53	10.6	1.0	0.4	23	0.5	0.3	0.2	56	0.63	0.100	13
L56880+00N 7087+75E	Soil		0.7	9.4	10.2	29	<0.1	10.2	3.9	99	2.23	2.9	0.6	1.1	5	<0.1	0.2	0.3	79	0.09	0.028	7
L56880+00N 7088+00E	Soil		0.8	13.4	12.4	39	0.2	16.9	7.8	347	2.92	4.8	1.7	1.1	6	0.3	0.3	0.2	84	0.10	0.031	7
L56888+00N 7064+00E	Soil		1.4	33.0	8.7	58	0.3	19.9	18.6	1075	2.48	4.9	0.7	0.4	12	0.3	0.2	0.2	74	0.40	0.064	9
L56888+00N 7064+25E	Soil		1.1	22.9	9.2	62	<0.1	21.3	12.2	581	2.77	4.6	0.6	0.4	11	0.4	0.2	0.2	74	0.36	0.065	6
L56888+00N 7064+50E	Soil		1.6	31.6	12.7	33	0.4	15.7	19.5	734	1.79	2.6	<0.5	<0.1	16	0.7	0.2	0.2	54	0.52	0.067	6
L56888+00N 7064+75E	Soil		1.2	33.9	5.4	42	0.3	23.5	16.7	571	2.95	4.1	0.5	0.5	10	0.4	0.2	0.1	96	0.38	0.044	6
L56888+00N 7065+00E	Soil		1.4	27.8	7.8	48	0.1	32.3	16.4	701	2.80	4.6	0.5	0.5	17	0.3	0.2	0.2	86	0.53	0.054	7
L56888+00N 7065+25E	Soil		0.8	15.6	10.2	26	0.2	11.0	3.9	201	1.89	1.5	1.4	0.2	7	0.2	0.1	0.2	54	0.09	0.038	5
L56888+00N 7065+50E	Soil		0.8	40.5	13.7	21	0.2	12.3	3.6	96	1.24	1.3	<0.5	<0.1	8	0.5	0.1	0.2	34	0.11	0.070	5
L56888+00N 7065+75E	Soil		0.9	13.8	9.6	22	0.1	10.3	3.4	122	2.11	1.8	1.9	0.8	4	0.1	0.2	0.2	67	0.06	0.032	5
L56888+00N 7066+00E	Soil		0.6	10.4	10.3	13	0.1	6.6	1.9	49	1.35	1.1	1.5	0.2	5	0.1	0.2	0.2	48	0.06	0.031	4
L56888+00N 7066+25E	Soil		1.0	20.0	9.6	12	0.2	5.0	1.7	54	1.29	0.9	1.5	<0.1	4	0.2	0.1	0.4	40	0.04	0.041	3
L56888+00N 7066+50E	Soil		0.5	13.0	9.3	15	0.1	5.2	1.6	53	0.96	0.8	2.0	<0.1	7	0.1	0.1	0.3	40	0.09	0.035	4
L56888+00N 7066+75E	Soil		0.6	14.7	8.3	15	0.1	7.3	2.5	78	1.36	1.4	1.8	<0.1	5	0.2	0.1	0.2	45	0.07	0.041	4
L56888+00N 7067+00E	Soil		0.7	14.5	7.7	33	0.1	16.6	5.8	173	2.53	2.7	1.6	0.7	10	0.1	0.2	0.2	78	0.19	0.027	4
L56888+00N 7067+25E	Soil		0.7	14.4	9.1	27	0.2	11.5	4.1	145	2.30	2.2	2.1	0.4	9	0.2	0.2	0.2	71	0.15	0.035	4
L56888+00N 7067+50E	Soil		0.6	13.7	8.2	24	0.2	10.6	3.9	161	1.93	1.6	1.5	0.3	9	<0.1	0.2	0.2	62	0.13	0.039	4
L56888+00N 7067+75E	Soil		0.9	24.9	7.5	30	0.2	14.9	8.6	310	2.06	1.8	1.5	0.1	7	0.3	0.1	0.2	70	0.11	0.053	5
L56888+00N 7068+00E	Soil		0.9	16.7	10.4	20	0.1	7.8	3.1	90	1.29	0.9	<0.5	0.1	7	0.2	0.1	0.2	46	0.14	0.043	4
L56888+00N 7068+25E	Soil		0.7	15.7	9.8	22	<0.1	8.9	3.6	137	2.20	2.3	2.7	0.6	6	0.1	0.3	0.2	72	0.09	0.035	5
L56888+00N 7068+50E	Soil		0.8	17.7	12.0	45	<0.1	14.5	11.9	757	2.77	2.8	2.4	0.5	16	0.2	0.2	0.2	102	0.42	0.058	4
L56888+00N 7068+75E	Soil		0.7	16.8	7.6	42	<0.1	19.0	8.3	307	2.84	3.8	1.9	0.7	9	0.1	0.3	0.2	93	0.19	0.045	5
L56888+00N 7069+00E	Soil		0.9	15.9	9.8	42	0.1	14.5	7.7	314	2.66	2.9	1.3	0.7	11	0.2	0.2	0.2	87	0.20	0.056	5

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Project: CCS 2011
Report Date: September 18, 2011

CERTIFICATE OF ANALYSIS VAN11003590.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56880+00N 7086+00E	Soil	33	0.30	103	0.101	<1	0.80	0.008	0.04	0.1	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
L56880+00N 7086+25E	Soil	50	0.45	79	0.171	<1	1.02	0.008	0.02	<0.1	0.04	1.5	<0.1	<0.05	6	<0.5	<0.2
L56880+00N 7086+50E	Soil	28	0.23	103	0.078	<1	1.00	0.011	0.04	<0.1	0.03	0.9	<0.1	<0.05	8	<0.5	<0.2
L56880+00N 7086+75E	Soil	38	0.39	116	0.172	<1	0.94	0.010	0.02	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
L56880+00N 7087+00E	Soil	52	0.47	113	0.195	<1	1.00	0.007	0.02	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7087+25E	Soil	52	0.69	126	0.150	<1	1.54	0.011	0.03	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
L56880+00N 7087+50E	Soil	57	0.55	102	0.067	1	2.73	0.013	0.04	<0.1	0.08	3.1	<0.1	0.10	7	0.8	<0.2
L56880+00N 7087+75E	Soil	27	0.19	60	0.206	<1	0.88	0.009	0.03	<0.1	<0.01	1.3	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7088+00E	Soil	40	0.37	65	0.203	<1	1.32	0.008	0.04	<0.1	<0.01	1.8	<0.1	<0.05	7	<0.5	<0.2
L56888+00N 7064+00E	Soil	40	0.40	87	0.129	<1	1.84	0.011	0.03	<0.1	0.02	2.5	<0.1	0.05	7	0.5	<0.2
L56888+00N 7064+25E	Soil	43	0.46	108	0.152	<1	1.22	0.008	0.03	<0.1	0.02	2.0	<0.1	0.06	6	<0.5	<0.2
L56888+00N 7064+50E	Soil	28	0.23	289	0.071	<1	0.92	0.014	0.03	<0.1	0.06	1.0	<0.1	0.09	7	<0.5	<0.2
L56888+00N 7064+75E	Soil	57	0.53	53	0.238	<1	1.67	0.010	0.02	<0.1	0.03	3.0	<0.1	0.06	6	<0.5	<0.2
L56888+00N 7065+00E	Soil	63	0.74	136	0.174	<1	1.45	0.010	0.03	<0.1	0.02	2.4	<0.1	0.05	6	<0.5	<0.2
L56888+00N 7065+25E	Soil	25	0.19	77	0.121	<1	0.96	0.009	0.02	<0.1	<0.01	0.7	<0.1	<0.05	7	<0.5	<0.2
L56888+00N 7065+50E	Soil	20	0.14	84	0.071	<1	1.15	0.009	0.03	<0.1	0.03	0.3	<0.1	<0.05	5	<0.5	<0.2
L56888+00N 7065+75E	Soil	30	0.21	61	0.200	<1	0.96	0.007	0.02	<0.1	<0.01	1.0	<0.1	<0.05	7	<0.5	<0.2
L56888+00N 7066+00E	Soil	18	0.12	55	0.124	<1	0.63	0.007	0.02	<0.1	0.01	0.5	<0.1	<0.05	7	<0.5	<0.2
L56888+00N 7066+25E	Soil	14	0.06	36	0.072	1	1.06	0.010	0.02	<0.1	0.04	0.4	<0.1	0.10	8	<0.5	<0.2
L56888+00N 7066+50E	Soil	13	0.10	55	0.105	<1	0.55	0.009	0.03	<0.1	0.03	0.3	<0.1	<0.05	6	<0.5	<0.2
L56888+00N 7066+75E	Soil	19	0.14	37	0.128	<1	0.89	0.007	0.02	<0.1	0.05	0.4	<0.1	<0.05	6	<0.5	<0.2
L56888+00N 7067+00E	Soil	36	0.35	142	0.244	<1	0.97	0.007	0.02	<0.1	0.08	1.4	<0.1	<0.05	6	<0.5	<0.2
L56888+00N 7067+25E	Soil	30	0.23	110	0.197	<1	0.86	0.007	0.03	0.1	0.07	1.0	<0.1	0.06	7	<0.5	<0.2
L56888+00N 7067+50E	Soil	25	0.21	83	0.186	<1	0.71	0.008	0.02	<0.1	0.06	0.8	<0.1	0.06	6	<0.5	<0.2
L56888+00N 7067+75E	Soil	29	0.25	86	0.111	<1	1.12	0.010	0.02	<0.1	0.05	1.1	<0.1	<0.05	7	<0.5	<0.2
L56888+00N 7068+00E	Soil	19	0.16	55	0.114	<1	0.85	0.009	0.03	<0.1	0.06	0.6	<0.1	0.06	7	<0.5	<0.2
L56888+00N 7068+25E	Soil	26	0.22	67	0.185	<1	0.79	0.007	0.03	<0.1	0.06	1.0	<0.1	<0.05	8	<0.5	<0.2
L56888+00N 7068+50E	Soil	27	0.38	195	0.235	1	0.96	0.007	0.04	0.1	0.09	1.4	<0.1	0.06	7	<0.5	<0.2
L56888+00N 7068+75E	Soil	40	0.46	84	0.242	<1	1.20	0.007	0.02	0.1	0.05	1.8	<0.1	<0.05	6	<0.5	<0.2
L56888+00N 7069+00E	Soil	31	0.37	131	0.205	<1	1.10	0.007	0.03	0.1	0.05	1.6	<0.1	<0.05	7	<0.5	<0.2

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		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56888+00N 7069+25E	Soil		1.0	19.7	6.5	13	0.4	8.2	1.6	42	0.57	3.1	<0.5	0.1	34	0.7	0.2	0.2	24	1.52	0.222	5
L56888+00N 7069+50E	Soil		0.5	14.8	8.5	16	0.4	7.0	2.0	23	0.58	0.5	0.6	<0.1	9	0.6	0.1	0.1	13	0.17	0.080	5
L56888+00N 7069+75E	Soil		1.1	39.5	5.3	30	0.3	10.4	4.4	46	0.94	1.4	1.6	<0.1	6	0.4	0.2	0.1	25	0.09	0.129	15
L56889+00N 7064+00E	Soil		0.6	6.0	10.7	10	<0.1	2.3	0.6	31	0.58	0.9	1.0	<0.1	4	<0.1	<0.1	0.3	27	0.05	0.035	3
L56889+00N 7064+25E	Soil		1.0	10.8	9.4	21	<0.1	7.4	2.4	87	1.80	2.1	2.6	0.3	5	0.1	0.1	0.2	52	0.11	0.036	6
L56889+00N 7064+50E	Soil		0.9	26.7	8.6	55	0.2	30.3	12.0	317	2.65	5.7	2.2	0.8	11	0.2	0.3	0.2	58	0.41	0.036	8
L56889+00N 7064+75E	Soil		1.1	44.4	9.3	57	0.4	31.3	14.0	270	2.45	22.3	0.9	0.2	9	0.5	0.3	0.2	67	0.27	0.070	12
L56889+00N 7065+00E	Soil		0.9	25.9	8.1	58	0.2	27.7	11.9	470	2.94	6.3	2.7	0.8	8	0.3	0.2	0.1	80	0.29	0.050	6
L56889+00N 7065+25E	Soil		0.9	25.8	8.5	55	0.1	31.2	13.1	306	2.74	6.5	2.4	0.7	11	0.2	0.3	0.1	71	0.30	0.040	8
L56889+00N 7065+50E	Soil		0.7	28.3	7.3	48	0.2	33.5	15.1	522	2.97	5.4	25.7	1.2	9	0.3	0.2	0.1	77	0.30	0.038	7
L56889+00N 7065+75E	Soil		0.9	18.7	10.7	33	0.2	17.3	6.9	249	2.75	3.2	2.1	0.8	7	0.2	0.2	0.2	79	0.13	0.036	6
L56889+00N 7066+00E	Soil		0.7	10.1	9.1	20	<0.1	7.6	2.7	90	1.69	1.7	<0.5	0.4	5	<0.1	0.2	0.2	63	0.08	0.032	4
L56889+00N 7066+25E	Soil		0.8	11.3	12.2	18	0.2	6.0	2.3	66	1.52	0.9	0.5	0.3	8	0.1	0.2	0.3	53	0.06	0.037	4
L56889+00N 7066+50E	Soil		0.5	7.9	10.5	8	<0.1	3.1	1.0	21	0.70	0.8	<0.5	<0.1	5	0.1	0.1	0.2	30	0.04	0.024	4
L56889+00N 7066+75E	Soil		0.7	14.3	8.7	22	<0.1	10.4	3.9	115	2.25	2.0	<0.5	0.4	5	0.2	0.2	0.2	72	0.08	0.031	5
L56889+00N 7067+00E	Soil		1.0	21.0	7.7	17	<0.1	7.6	3.0	93	2.39	1.7	<0.5	0.4	4	0.2	0.1	0.2	53	0.06	0.035	6
L56889+00N 7067+25E	Soil		0.7	32.1	7.1	25	0.4	13.4	6.0	132	1.49	1.4	<0.5	<0.1	9	0.2	0.1	0.2	40	0.07	0.061	8
L56889+00N 7067+50E	Soil		0.6	16.1	6.9	33	0.1	15.0	6.2	213	2.04	1.5	0.8	<0.1	11	0.1	0.1	0.2	55	0.14	0.059	5
L56889+00N 7067+75E	Soil		0.9	17.3	8.1	25	0.1	10.5	5.3	143	1.96	1.9	<0.5	0.2	5	0.2	0.1	0.2	56	0.05	0.038	5
L56889+00N 7068+00E	Soil		0.7	12.6	14.6	22	<0.1	7.8	2.8	144	1.66	2.0	<0.5	0.2	6	0.1	0.2	0.2	59	0.11	0.046	3
L56889+00N 7068+25E	Soil		0.7	9.2	7.7	8	<0.1	2.6	1.0	60	1.23	0.9	<0.5	0.1	2	<0.1	<0.1	0.2	25	0.02	0.031	3
L56889+00N 7068+50E	Soil		0.9	21.4	9.4	19	0.1	10.2	3.5	103	1.49	1.7	6.4	0.1	5	0.3	0.1	0.2	48	0.06	0.056	6
L56889+00N 7068+75E	Soil		0.6	7.7	9.8	12	<0.1	4.5	1.5	59	1.16	1.0	3.4	<0.1	5	<0.1	0.1	0.2	49	0.06	0.029	4
L56889+00N 7069+00E	Soil		0.4	7.6	11.8	12	<0.1	4.0	1.3	42	0.67	0.9	<0.5	<0.1	4	<0.1	0.1	0.2	36	0.06	0.025	4
L56889+00N 7069+25E	Soil		0.6	13.8	8.9	26	0.3	9.1	3.1	152	1.41	1.4	2.5	0.1	11	0.2	0.1	0.2	51	0.15	0.043	3
L56889+00N 7069+50E	Soil		0.7	23.5	8.5	40	0.3	13.9	6.2	248	2.07	2.0	0.8	0.2	11	0.2	0.2	0.2	63	0.17	0.057	5
L56889+00N 7069+75E	Soil		0.7	18.3	9.4	40	0.2	12.0	7.7	391	2.23	1.9	1.4	0.2	6	0.3	0.2	0.2	66	0.10	0.049	4
L56889+00N 7090+00E	Soil		0.9	8.7	14.8	29	0.1	8.4	3.9	92	1.97	3.6	1.0	1.2	6	0.1	0.2	0.3	78	0.09	0.027	5
L56889+00N 7090+25E	Soil		0.8	15.8	12.0	50	0.1	16.8	7.9	489	2.85	4.5	1.4	0.5	6	0.3	0.3	0.2	82	0.08	0.039	6
L56889+00N 7090+50E	Soil		0.9	20.1	14.0	48	0.3	14.2	6.6	401	2.50	7.8	16.6	0.2	14	0.3	0.2	0.3	70	0.16	0.070	5

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	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56888+00N 7069+25E	Soil	12	0.13	102	0.014	2	0.88	0.013	0.03	<0.1	0.05	0.6	<0.1	0.41	2	3.1	<0.2
L56888+00N 7069+50E	Soil	14	0.08	138	0.014	<1	0.78	0.011	0.02	<0.1	0.13	0.2	<0.1	0.14	4	1.3	<0.2
L56888+00N 7069+75E	Soil	16	0.11	148	0.016	<1	1.61	0.014	0.03	<0.1	0.16	0.4	<0.1	0.20	3	2.6	<0.2
L56889+00N 7064+00E	Soil	9	0.03	31	0.078	<1	0.37	0.009	0.05	<0.1	0.03	0.1	<0.1	<0.05	6	<0.5	<0.2
L56889+00N 7064+25E	Soil	22	0.16	52	0.126	<1	0.85	0.008	0.02	<0.1	0.06	0.7	<0.1	<0.05	6	<0.5	<0.2
L56889+00N 7064+50E	Soil	49	0.62	148	0.118	<1	1.47	0.008	0.04	<0.1	0.06	2.1	<0.1	<0.05	6	<0.5	<0.2
L56889+00N 7064+75E	Soil	77	0.51	83	0.071	<1	2.62	0.011	0.04	<0.1	0.13	3.4	<0.1	0.06	5	1.5	<0.2
L56889+00N 7065+00E	Soil	56	0.72	94	0.236	<1	1.77	0.008	0.03	0.1	0.08	2.6	<0.1	0.05	6	<0.5	<0.2
L56889+00N 7065+25E	Soil	60	0.71	132	0.137	<1	1.57	0.009	0.04	<0.1	0.05	2.5	<0.1	0.06	5	<0.5	<0.2
L56889+00N 7065+50E	Soil	59	0.82	85	0.247	<1	1.69	0.008	0.04	<0.1	0.07	2.7	<0.1	<0.05	5	<0.5	<0.2
L56889+00N 7065+75E	Soil	39	0.38	65	0.230	<1	1.40	0.008	0.03	<0.1	0.05	1.7	<0.1	<0.05	8	<0.5	<0.2
L56889+00N 7066+00E	Soil	23	0.17	46	0.194	<1	0.66	0.010	0.02	<0.1	0.05	0.8	<0.1	<0.05	7	<0.5	<0.2
L56889+00N 7066+25E	Soil	16	0.12	64	0.150	<1	0.78	0.010	0.03	<0.1	0.03	0.7	<0.1	<0.05	8	<0.5	<0.2
L56889+00N 7066+50E	Soil	9	0.03	43	0.090	<1	0.43	0.012	0.02	<0.1	0.04	0.3	<0.1	<0.05	6	<0.5	<0.2
L56889+00N 7066+75E	Soil	25	0.21	55	0.203	<1	0.95	0.009	0.02	<0.1	0.05	1.1	<0.1	<0.05	7	<0.5	<0.2
L56889+00N 7067+00E	Soil	23	0.16	35	0.140	<1	1.48	0.013	0.02	<0.1	0.06	1.2	<0.1	0.06	8	<0.5	<0.2
L56889+00N 7067+25E	Soil	23	0.28	87	0.078	<1	1.44	0.013	0.03	<0.1	0.05	0.8	<0.1	0.08	5	<0.5	<0.2
L56889+00N 7067+50E	Soil	28	0.28	101	0.114	<1	1.06	0.011	0.03	<0.1	0.07	0.8	<0.1	0.07	6	<0.5	<0.2
L56889+00N 7067+75E	Soil	21	0.23	42	0.128	<1	1.16	0.012	0.03	<0.1	0.05	0.9	<0.1	0.06	6	<0.5	<0.2
L56889+00N 7068+00E	Soil	18	0.14	46	0.111	<1	0.63	0.010	0.03	<0.1	0.06	0.6	<0.1	0.06	6	<0.5	<0.2
L56889+00N 7068+25E	Soil	8	0.05	25	0.054	<1	1.17	0.010	0.01	<0.1	0.01	0.4	<0.1	<0.05	7	<0.5	<0.2
L56889+00N 7068+50E	Soil	27	0.19	45	0.078	<1	1.88	0.010	0.02	<0.1	0.10	0.8	<0.1	<0.05	6	<0.5	<0.2
L56889+00N 7068+75E	Soil	13	0.08	32	0.087	<1	0.48	0.010	0.01	<0.1	0.04	0.3	<0.1	<0.05	8	<0.5	<0.2
L56889+00N 7069+00E	Soil	13	0.08	35	0.102	<1	0.48	0.009	0.02	<0.1	0.01	0.3	<0.1	<0.05	6	<0.5	<0.2
L56889+00N 7069+25E	Soil	21	0.18	70	0.124	1	0.61	0.009	0.02	<0.1	0.07	0.5	<0.1	<0.05	6	<0.5	<0.2
L56889+00N 7069+50E	Soil	27	0.31	132	0.123	1	1.10	0.007	0.03	<0.1	0.04	1.1	<0.1	0.06	6	<0.5	<0.2
L56889+00N 7069+75E	Soil	26	0.29	87	0.120	1	1.03	0.005	0.02	<0.1	0.04	0.9	<0.1	<0.05	7	<0.5	<0.2
L56889+00N 7090+00E	Soil	23	0.16	69	0.145	<1	0.66	0.007	0.02	0.1	0.05	1.0	<0.1	<0.05	7	<0.5	<0.2
L56889+00N 7090+25E	Soil	39	0.42	90	0.144	<1	1.18	0.007	0.02	0.1	0.04	1.4	<0.1	<0.05	7	<0.5	<0.2
L56889+00N 7090+50E	Soil	33	0.29	114	0.088	<1	1.02	0.010	0.03	0.1	0.06	1.0	<0.1	0.06	6	<0.5	<0.2

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Project: CCS 2011
Report Date: September 18, 2011

CERTIFICATE OF ANALYSIS VAN11003590.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56889+00N 7090+75E	Soil	0.8	12.4	17.9	24	0.2	6.6	2.4	76	1.68	3.2	4.5	0.5	4	0.2	0.3	0.3	52	0.06	0.031	5
L56889+00N 7091+00E	Soil	1.3	10.6	13.8	32	0.3	9.8	4.0	148	2.61	4.5	18.0	0.8	4	0.2	0.3	0.3	74	0.05	0.037	5
L56889+00N 7091+25E	Soil	0.8	10.6	14.0	24	<0.1	6.7	2.9	174	1.93	3.5	3.5	0.3	3	0.3	0.2	0.3	53	0.03	0.029	5
L56889+00N 7091+50E	Soil	1.1	14.1	13.2	46	<0.1	13.8	7.9	810	2.49	21.1	7.7	0.7	6	0.1	0.3	0.3	66	0.15	0.037	4
L56889+00N 7091+75E	Soil	0.8	10.2	15.4	31	0.1	7.7	3.2	257	1.88	3.5	4.4	0.7	8	0.2	0.2	0.3	54	0.13	0.037	4
L56889+00N 7092+00E	Soil	1.1	9.6	13.6	24	0.1	8.4	3.4	149	2.11	5.1	1.3	0.7	5	0.1	0.2	0.3	65	0.08	0.027	5
L56889+00N 7092+25E	Soil	1.0	15.5	13.8	21	0.2	7.0	2.5	83	1.08	1.7	1.3	0.1	5	0.2	0.1	0.3	37	0.07	0.029	5
L56889+00N 7092+50E	Soil	1.0	14.8	14.2	42	0.2	13.2	7.0	532	2.89	4.7	15.6	0.7	6	0.2	0.3	0.3	76	0.10	0.036	6
L56889+00N 7092+75E	Soil	0.9	22.2	11.0	50	0.1	20.2	7.2	355	2.95	8.3	12.6	0.9	7	0.2	0.9	0.2	63	0.13	0.053	5
L56889+00N 7093+00E	Soil	1.2	26.1	12.9	61	0.9	21.7	10.1	499	3.59	10.8	18.5	1.3	7	0.2	0.7	0.2	73	0.15	0.045	8
L56889+00N 7093+25E	Soil	0.8	15.4	14.7	55	0.2	10.8	6.7	1135	2.19	4.9	0.8	0.3	9	0.1	0.3	0.3	62	0.21	0.057	6
L56889+00N 7093+50E	Soil	0.8	36.8	11.7	67	0.2	32.0	14.9	688	3.19	12.9	9.3	1.3	6	0.2	0.5	0.2	70	0.18	0.045	7
L56889+00N 7093+75E	Soil	1.0	21.2	12.8	60	0.4	16.1	11.6	1137	2.68	10.0	1.1	0.1	7	0.3	0.4	0.3	58	0.08	0.082	5
L56889+00N 7094+00E	Soil	1.2	15.6	10.8	20	0.4	5.5	2.3	146	1.81	3.8	<0.5	0.1	4	0.3	0.2	0.3	30	0.06	0.057	4
L56890+00N 7064+00E	Soil	1.3	48.4	5.6	15	1.5	11.1	12.5	429	0.84	2.4	1.5	<0.1	17	0.5	0.4	0.1	33	0.48	0.132	19
L56890+00N 7064+25E	Soil	1.1	30.4	9.5	31	0.3	11.1	7.3	443	1.33	2.1	<0.5	<0.1	12	0.2	0.1	0.2	48	0.20	0.048	7
L56890+00N 7064+50E	Soil	1.2	33.6	11.1	29	0.6	12.0	9.9	384	1.75	2.3	<0.5	0.2	9	0.5	0.1	0.3	52	0.17	0.045	8
L56890+00N 7064+75E	Soil	1.3	45.0	9.7	40	0.4	17.9	14.0	503	2.20	5.2	1.0	0.2	14	0.6	0.2	0.2	62	0.41	0.075	11
L56890+00N 7065+00E	Soil	0.9	29.0	8.7	45	0.3	19.0	10.5	334	2.61	5.6	1.7	0.6	9	0.3	0.2	0.2	68	0.35	0.045	7
L56890+00N 7065+25E	Soil	1.0	50.6	14.1	55	0.5	21.5	15.9	2312	1.34	3.9	<0.5	<0.1	32	1.0	1.0	0.2	29	1.49	0.103	15
L56890+00N 7065+50E	Soil	0.7	10.4	12.1	18	0.2	4.5	1.5	57	1.36	0.9	0.6	<0.1	5	0.2	0.1	0.3	43	0.10	0.044	3
L56890+00N 7065+75E	Soil	0.8	19.6	9.1	35	<0.1	20.0	7.0	187	2.31	4.0	1.1	0.5	10	<0.1	0.2	0.2	66	0.18	0.039	4
L56890+00N 7066+00E	Soil	0.6	17.6	9.6	21	0.3	10.0	3.4	77	1.03	1.4	0.9	<0.1	7	0.1	0.2	0.2	29	0.08	0.069	5
L56890+00N 7066+25E	Soil	0.5	9.9	10.2	17	0.1	6.7	2.4	80	1.33	1.1	<0.5	0.2	10	0.2	0.1	0.2	51	0.16	0.039	3
L56890+00N 7066+50E	Soil	0.8	13.3	9.5	18	0.2	7.9	3.1	92	1.53	1.7	0.6	0.5	5	0.1	0.2	0.2	52	0.08	0.035	4
L56890+00N 7066+75E	Soil	0.9	13.5	16.3	16	0.2	6.2	2.1	53	0.87	2.4	0.8	<0.1	6	0.2	0.2	0.3	25	0.06	0.068	4
L56890+00N 7067+00E	Soil	1.0	24.4	8.5	25	0.4	11.2	5.0	211	2.02	1.9	<0.5	0.3	5	0.2	0.2	0.2	50	0.06	0.049	5
L56890+00N 7067+25E	Soil	0.7	13.9	10.3	27	<0.1	10.0	4.0	121	1.65	1.3	<0.5	<0.1	10	0.1	0.1	0.3	45	0.09	0.050	4
L56890+00N 7067+50E	Soil	0.4	9.6	21.2	20	<0.1	5.7	2.2	86	1.09	0.7	<0.5	0.3	7	0.1	0.2	0.3	38	0.09	0.030	3
L56890+00N 7067+75E	Soil	0.7	16.0	19.0	23	<0.1	9.0	3.1	128	1.72	3.5	<0.5	0.1	5	0.2	0.2	0.3	65	0.07	0.044	3

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		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56889+00N 7090+75E	Soil		15	0.09	52	0.082	<1	0.55	0.007	0.02	<0.1	0.04	0.6	<0.1	<0.05	6	<0.5	<0.2
L56889+00N 7091+00E	Soil		26	0.20	44	0.123	<1	0.98	0.006	0.02	0.1	0.06	1.0	<0.1	<0.05	7	<0.5	<0.2
L56889+00N 7091+25E	Soil		16	0.11	48	0.082	<1	0.71	0.008	0.02	<0.1	0.02	0.6	<0.1	<0.05	8	<0.5	<0.2
L56889+00N 7091+50E	Soil		30	0.34	103	0.118	<1	0.85	0.008	0.03	0.1	0.05	1.2	<0.1	<0.05	8	<0.5	<0.2
L56889+00N 7091+75E	Soil		18	0.13	104	0.106	1	0.79	0.008	0.03	0.1	0.08	0.8	<0.1	<0.05	7	<0.5	<0.2
L56889+00N 7092+00E	Soil		21	0.17	50	0.136	<1	0.80	0.009	0.02	0.2	0.04	0.9	<0.1	<0.05	7	<0.5	<0.2
L56889+00N 7092+25E	Soil		17	0.12	56	0.078	<1	0.91	0.009	0.02	0.1	0.03	0.5	<0.1	<0.05	6	<0.5	<0.2
L56889+00N 7092+50E	Soil		32	0.30	51	0.126	<1	1.14	0.007	0.04	0.1	0.04	1.2	<0.1	<0.05	8	<0.5	<0.2
L56889+00N 7092+75E	Soil		34	0.40	87	0.113	<1	1.20	0.007	0.02	0.1	0.07	1.5	<0.1	<0.05	6	<0.5	<0.2
L56889+00N 7093+00E	Soil		39	0.44	120	0.120	<1	1.53	0.008	0.03	0.1	0.06	2.1	<0.1	<0.05	8	<0.5	<0.2
L56889+00N 7093+25E	Soil		24	0.21	175	0.085	1	0.76	0.009	0.05	<0.1	0.04	0.8	<0.1	<0.05	7	<0.5	<0.2
L56889+00N 7093+50E	Soil		51	0.69	293	0.126	<1	1.61	0.007	0.02	0.1	0.05	2.7	<0.1	<0.05	5	<0.5	<0.2
L56889+00N 7093+75E	Soil		36	0.22	228	0.041	<1	1.13	0.009	0.04	<0.1	0.03	0.9	<0.1	<0.05	7	<0.5	<0.2
L56889+00N 7094+00E	Soil		15	0.07	77	0.044	<1	1.52	0.010	0.02	0.1	0.06	0.5	<0.1	<0.05	9	<0.5	<0.2
L56890+00N 7064+00E	Soil		24	0.15	159	0.018	2	1.95	0.008	0.03	<0.1	0.15	0.9	<0.1	0.18	2	1.2	<0.2
L56890+00N 7064+25E	Soil		24	0.25	139	0.095	<1	1.23	0.009	0.02	<0.1	0.04	1.0	<0.1	<0.05	7	<0.5	<0.2
L56890+00N 7064+50E	Soil		23	0.20	144	0.093	<1	1.26	0.010	0.03	<0.1	0.05	1.3	<0.1	<0.05	8	<0.5	<0.2
L56890+00N 7064+75E	Soil		32	0.31	142	0.102	<1	1.44	0.009	0.03	0.1	0.11	1.6	<0.1	0.06	6	<0.5	<0.2
L56890+00N 7065+00E	Soil		42	0.48	94	0.133	<1	1.56	0.008	0.04	<0.1	0.06	2.1	<0.1	<0.05	7	<0.5	<0.2
L56890+00N 7065+25E	Soil		33	0.29	218	0.024	2	1.92	0.008	0.05	<0.1	0.32	1.4	<0.1	0.11	3	0.9	<0.2
L56890+00N 7065+50E	Soil		14	0.07	51	0.099	<1	0.71	0.007	0.02	<0.1	0.06	0.4	<0.1	<0.05	7	<0.5	<0.2
L56890+00N 7065+75E	Soil		42	0.50	82	0.186	1	1.12	0.006	0.03	<0.1	0.06	1.4	<0.1	<0.05	6	<0.5	<0.2
L56890+00N 7066+00E	Soil		17	0.19	62	0.046	1	1.27	0.007	0.03	<0.1	0.08	0.4	<0.1	0.07	5	<0.5	<0.2
L56890+00N 7066+25E	Soil		19	0.15	54	0.136	<1	0.55	0.008	0.03	<0.1	0.06	0.6	<0.1	<0.05	5	<0.5	<0.2
L56890+00N 7066+50E	Soil		23	0.20	39	0.153	<1	1.02	0.009	0.02	<0.1	0.06	0.9	<0.1	<0.05	7	<0.5	<0.2
L56890+00N 7066+75E	Soil		14	0.12	38	0.048	<1	0.86	0.010	0.03	<0.1	0.05	0.2	<0.1	0.07	6	<0.5	<0.2
L56890+00N 7067+00E	Soil		25	0.25	65	0.109	<1	1.39	0.009	0.02	0.1	0.06	0.9	<0.1	0.06	8	<0.5	<0.2
L56890+00N 7067+25E	Soil		20	0.16	107	0.068	<1	0.81	0.007	0.02	<0.1	0.08	0.4	<0.1	<0.05	6	<0.5	<0.2
L56890+00N 7067+50E	Soil		14	0.14	65	0.112	<1	0.57	0.009	0.03	<0.1	0.06	0.6	<0.1	<0.05	6	<0.5	<0.2
L56890+00N 7067+75E	Soil		21	0.17	39	0.103	<1	0.69	0.007	0.02	<0.1	0.06	0.5	<0.1	<0.05	8	<0.5	<0.2

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		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56890+00N 7068+00E	Soil		0.4	6.1	10.4	13	<0.1	3.4	1.3	37	0.71	0.6	0.8	<0.1	5	0.2	0.1	0.3	40	0.04	0.026	3
L56890+00N 7068+25E	Soil		0.7	15.9	11.1	16	0.3	8.1	2.3	42	0.59	1.4	1.1	<0.1	6	0.3	<0.1	0.2	19	0.05	0.078	5
L56890+00N 7068+50E	Soil		0.8	23.5	9.2	23	0.2	10.8	5.1	99	1.08	1.8	2.2	<0.1	7	0.4	0.1	0.2	38	0.10	0.073	6
L56890+00N 7068+75E	Soil		0.9	19.0	7.8	37	0.2	14.9	5.4	194	2.58	2.8	1.8	0.2	9	0.2	0.1	0.2	69	0.17	0.064	4
L56890+00N 7069+00E	Soil		0.8	13.7	9.4	33	0.1	11.5	4.3	219	2.13	2.8	<0.5	0.5	13	<0.1	0.2	0.2	69	0.19	0.048	4
L56890+00N 7069+25E	Soil		1.2	31.6	12.5	55	0.8	11.1	4.3	649	2.39	3.4	2.1	0.2	9	0.2	0.3	0.2	53	0.12	0.064	6
L56890+00N 7069+50E	Soil		0.8	14.7	10.0	28	0.2	10.5	3.9	136	2.04	2.3	1.0	0.2	6	0.3	0.2	0.2	65	0.07	0.044	5
L56890+00N 7069+75E	Soil		0.9	17.0	9.9	46	0.4	16.4	6.0	214	2.97	3.9	4.7	0.9	6	0.1	0.2	0.2	79	0.08	0.038	6
L56890+00N 7090+25E	Soil		0.9	17.0	11.1	47	0.3	12.8	5.9	344	2.93	6.1	2.4	0.7	6	0.3	0.2	0.2	69	0.07	0.038	7
L56890+00N 7090+50E	Soil		0.8	17.8	13.0	52	0.1	18.2	8.6	471	3.18	12.7	5.4	1.1	8	0.2	0.3	0.2	78	0.14	0.042	10
L56890+00N 7090+75E	Soil		0.9	18.3	12.9	60	0.5	13.7	14.1	1359	2.62	6.1	1.9	0.5	10	0.3	0.2	0.2	56	0.16	0.044	9
L56890+00N 7091+00E	Soil		1.0	61.5	12.2	55	2.4	25.2	12.7	1774	2.22	8.5	4.0	0.2	35	0.8	0.3	0.2	46	0.88	0.155	20
L56890+00N 7091+25E	Soil		1.2	18.3	16.3	56	0.2	19.2	8.0	188	3.78	17.1	17.0	1.7	6	0.2	0.5	0.3	83	0.10	0.044	8
L56890+00N 7091+50E	Soil		0.6	13.1	16.6	38	0.1	12.3	4.3	113	2.07	13.5	1.7	0.5	10	0.3	0.3	0.2	57	0.20	0.045	5
L56890+00N 7091+75E	Soil		1.0	26.0	9.3	72	0.1	32.9	13.4	236	4.10	18.3	5.7	1.6	6	0.2	0.4	0.2	78	0.19	0.035	10
L56890+00N 7092+00E	Soil		0.8	12.0	9.4	41	0.2	10.5	4.3	121	1.97	4.6	0.8	0.8	10	<0.1	0.2	0.2	76	0.30	0.033	5
L56890+00N 7092+25E	Soil		1.0	17.9	13.0	55	0.2	16.5	5.7	149	3.03	12.9	4.9	0.9	10	0.5	0.3	0.3	67	0.23	0.044	9
L56890+00N 7092+50E	Soil		1.2	38.6	15.7	97	3.8	27.6	9.3	330	3.67	13.9	4.3	1.3	13	0.3	1.2	0.3	82	0.37	0.042	10
L56890+00N 7092+75E	Soil		1.3	34.4	16.8	73	0.8	23.8	7.5	219	3.94	15.2	2.9	2.0	7	0.3	1.4	0.3	77	0.14	0.041	7
L56890+00N 7093+00E	Soil		1.3	9.4	6.1	22	0.3	9.7	2.0	48	2.74	3.2	0.7	0.4	9	0.2	0.5	0.2	87	0.01	0.045	3
L56890+00N 7093+25E	Soil		1.2	21.2	12.1	64	0.6	23.4	9.1	173	3.71	14.7	3.2	2.3	5	0.2	0.6	0.2	93	0.07	0.021	7
L56890+00N 7093+50E	Soil		2.2	66.1	11.6	205	0.7	30.5	12.8	317	3.95	10.5	11.0	1.5	9	0.3	0.9	0.4	50	0.08	0.041	13
L56890+00N 7093+75E	Soil		0.9	12.8	13.7	31	0.7	7.9	3.0	225	1.51	5.3	6.4	0.4	6	0.2	0.4	0.3	44	0.08	0.031	4
L56890+00N 7094+00E	Soil		1.3	14.1	10.8	30	0.7	9.8	3.2	125	2.59	5.5	1.9	0.2	8	0.2	0.3	0.3	54	0.09	0.046	4
L56891+00N 7064+25E	Soil		1.2	13.3	9.9	20	0.2	6.1	2.1	91	2.01	1.7	0.6	0.1	6	0.2	<0.1	0.2	49	0.11	0.045	4
L56891+00N 7064+50E	Soil		0.8	15.6	7.8	34	0.2	14.4	5.8	184	3.08	3.9	10.3	0.6	5	<0.1	0.2	0.2	79	0.09	0.034	5
L56891+00N 7064+75E	Soil		0.7	32.0	6.0	46	<0.1	35.6	13.0	289	3.45	10.6	10.5	1.5	8	0.2	0.3	<0.1	75	0.28	0.038	7
L56891+00N 7065+00E	Soil		0.8	10.7	8.0	21	0.2	7.3	3.4	339	2.51	1.9	<0.5	0.5	4	0.2	0.1	0.1	66	0.07	0.028	4
L56891+00N 7065+25E	Soil		0.9	17.5	6.6	35	0.1	16.0	6.0	178	4.08	5.3	4.7	0.8	7	0.4	0.2	0.1	99	0.11	0.037	4
L56891+00N 7065+50E	Soil		0.8	33.1	10.5	33	0.4	14.0	9.0	207	2.15	3.8	1.2	0.4	11	0.3	0.2	0.2	54	0.28	0.045	10

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Project: CCS 2011
Report Date: September 18, 2011

CERTIFICATE OF ANALYSIS VAN11003590.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56890+00N 7068+00E	Soil	9	0.04	68	0.077	1	0.38	0.007	0.01	<0.1	0.07	0.5	<0.1	0.08	7	<0.5	<0.2
L56890+00N 7068+25E	Soil	12	0.10	55	0.035	2	1.00	0.010	0.02	<0.1	0.06	0.6	<0.1	0.10	5	<0.5	<0.2
L56890+00N 7068+50E	Soil	20	0.20	70	0.069	2	1.21	0.013	0.03	<0.1	0.06	0.9	<0.1	0.10	6	<0.5	<0.2
L56890+00N 7068+75E	Soil	29	0.33	74	0.138	2	1.44	0.011	0.03	0.1	0.08	1.4	<0.1	0.09	8	<0.5	<0.2
L56890+00N 7069+00E	Soil	24	0.27	79	0.176	1	0.87	0.009	0.03	0.1	0.05	1.3	<0.1	0.07	8	<0.5	<0.2
L56890+00N 7069+25E	Soil	23	0.22	258	0.085	2	0.94	0.005	0.03	<0.1	0.13	0.9	<0.1	0.10	7	1.1	<0.2
L56890+00N 7069+50E	Soil	25	0.23	114	0.142	1	1.01	0.007	0.02	<0.1	0.06	1.0	<0.1	0.08	8	<0.5	<0.2
L56890+00N 7069+75E	Soil	34	0.38	115	0.184	1	1.34	0.007	0.03	0.1	0.07	2.1	<0.1	<0.05	8	0.7	<0.2
L56890+00N 7090+25E	Soil	29	0.24	127	0.136	<1	1.14	0.008	0.02	0.1	0.03	1.6	<0.1	0.05	7	<0.5	<0.2
L56890+00N 7090+50E	Soil	40	0.41	129	0.129	<1	1.22	0.007	0.04	0.1	0.05	2.1	<0.1	0.06	6	<0.5	<0.2
L56890+00N 7090+75E	Soil	25	0.27	96	0.095	<1	1.47	0.011	0.02	0.2	0.07	2.0	<0.1	0.07	9	<0.5	<0.2
L56890+00N 7091+00E	Soil	36	0.36	154	0.026	2	2.46	0.017	0.04	0.1	0.14	2.5	0.1	0.17	7	2.7	<0.2
L56890+00N 7091+25E	Soil	46	0.41	117	0.150	<1	1.23	0.008	0.02	0.2	0.08	2.6	<0.1	0.06	7	<0.5	<0.2
L56890+00N 7091+50E	Soil	26	0.17	154	0.109	<1	0.70	0.009	0.03	0.2	0.08	1.8	<0.1	0.10	6	<0.5	<0.2
L56890+00N 7091+75E	Soil	65	0.86	121	0.157	1	2.21	0.008	0.02	0.2	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
L56890+00N 7092+00E	Soil	27	0.22	148	0.191	1	0.64	0.010	0.03	0.2	0.06	1.4	<0.1	<0.05	6	<0.5	<0.2
L56890+00N 7092+25E	Soil	48	0.34	180	0.108	1	1.17	0.009	0.03	0.2	0.05	2.0	<0.1	0.07	6	<0.5	<0.2
L56890+00N 7092+50E	Soil	42	0.51	392	0.109	<1	1.53	0.010	0.04	0.1	0.06	2.8	<0.1	0.08	6	<0.5	<0.2
L56890+00N 7092+75E	Soil	37	0.44	366	0.096	1	1.37	0.011	0.04	0.2	0.05	2.5	<0.1	<0.05	7	<0.5	<0.2
L56890+00N 7093+00E	Soil	15	0.06	154	0.044	2	0.71	0.006	0.02	0.2	0.04	1.4	<0.1	0.12	7	<0.5	<0.2
L56890+00N 7093+25E	Soil	42	0.47	176	0.166	<1	1.59	0.007	0.02	0.2	0.05	2.9	<0.1	<0.05	7	0.7	<0.2
L56890+00N 7093+50E	Soil	41	0.23	582	0.056	1	2.08	0.008	0.04	0.2	0.10	3.7	<0.1	<0.05	8	0.8	<0.2
L56890+00N 7093+75E	Soil	18	0.10	227	0.080	<1	0.52	0.008	0.02	0.1	0.07	0.9	<0.1	<0.05	6	<0.5	<0.2
L56890+00N 7094+00E	Soil	21	0.12	392	0.060	<1	1.00	0.011	0.02	0.1	0.06	1.1	<0.1	0.10	8	0.7	<0.2
L56891+00N 7064+25E	Soil	17	0.10	54	0.109	<1	0.86	0.008	0.02	<0.1	0.07	0.7	<0.1	0.10	9	<0.5	<0.2
L56891+00N 7064+50E	Soil	36	0.34	49	0.223	<1	1.38	0.007	0.02	0.1	0.06	1.6	<0.1	0.05	7	<0.5	<0.2
L56891+00N 7064+75E	Soil	55	0.87	66	0.233	<1	2.07	0.007	0.02	0.1	0.07	3.1	<0.1	<0.05	4	<0.5	<0.2
L56891+00N 7065+00E	Soil	23	0.16	36	0.167	<1	1.35	0.010	0.01	<0.1	0.06	1.3	<0.1	<0.05	8	<0.5	<0.2
L56891+00N 7065+25E	Soil	42	0.38	49	0.298	1	1.35	0.005	0.02	0.1	0.10	1.6	<0.1	0.07	8	<0.5	<0.2
L56891+00N 7065+50E	Soil	27	0.25	194	0.124	1	1.33	0.010	0.02	0.1	0.05	2.4	<0.1	0.05	8	<0.5	<0.2

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56891+00N 7065+75E	Soil	1.3	40.8	8.7	69	0.5	39.0	27.9	1204	3.63	8.3	1.1	0.8	11	0.3	0.2	0.2	86	0.32	0.046	8
L56891+00N 7066+00E	Soil	0.9	19.5	8.4	36	0.4	13.1	5.7	305	2.48	3.4	0.7	0.4	9	0.2	0.2	0.2	61	0.16	0.034	4
L56891+00N 7066+25E	Soil	0.9	12.6	9.1	19	0.2	5.9	2.3	122	2.22	0.9	1.0	0.2	7	0.2	0.1	0.2	57	0.10	0.032	3
L56891+00N 7066+50E	Soil	1.1	28.4	7.7	40	0.1	21.9	8.4	202	3.40	3.4	2.0	0.8	7	0.2	0.2	0.2	69	0.11	0.038	6
L56891+00N 7066+75E	Soil	0.9	24.5	7.8	44	0.1	23.9	9.3	274	3.41	5.6	1.0	1.1	5	0.2	0.2	0.1	77	0.13	0.040	6
L56891+00N 7067+00E	Soil	0.9	23.3	7.4	53	<0.1	24.8	10.7	352	3.71	5.2	1.8	1.4	5	0.2	0.2	0.2	78	0.12	0.045	6
L56891+00N 7067+25E	Soil	1.0	29.2	7.4	48	<0.1	23.8	10.2	272	3.07	6.3	4.3	1.7	7	0.2	0.2	0.1	72	0.21	0.040	8
L56891+00N 7067+50E	Soil	1.1	20.3	9.0	48	0.3	16.8	9.1	637	2.94	4.0	0.9	0.7	8	0.3	0.2	0.2	79	0.14	0.050	6
L56891+00N 7067+75E	Soil	1.0	25.8	9.1	49	0.2	23.6	9.1	287	4.02	4.8	3.0	1.1	8	0.3	0.3	0.2	93	0.15	0.039	6
L56891+00N 7068+00E	Soil	0.7	32.3	7.0	61	<0.1	35.0	14.2	384	3.93	8.7	9.0	1.9	10	0.3	0.4	0.1	91	0.31	0.051	8
L56891+00N 7068+25E	Soil	0.9	24.0	8.2	41	0.1	18.2	7.5	237	2.76	9.7	65.4	0.6	9	0.2	0.2	0.1	78	0.16	0.052	6
L56891+00N 7068+50E	Soil	0.6	15.9	10.1	31	0.1	8.7	2.7	102	2.01	1.9	1.3	0.7	6	0.2	0.1	0.2	70	0.08	0.076	5
L56891+00N 7068+75E	Soil	0.8	17.3	9.8	36	0.2	16.2	5.1	146	2.11	3.1	<0.5	0.4	8	0.2	0.2	0.2	64	0.13	0.045	6
L56891+00N 7069+00E	Soil	0.8	20.8	9.8	28	0.5	13.7	4.6	137	2.54	2.9	10.8	0.7	7	0.2	0.2	0.2	65	0.10	0.041	6
L56891+00N 7069+25E	Soil	1.3	27.2	8.5	48	0.5	20.5	7.6	234	3.63	4.6	2.5	1.2	7	0.3	0.3	0.2	77	0.11	0.050	8
L56891+00N 7069+50E	Soil	0.9	20.8	10.0	36	0.5	18.0	5.7	229	3.30	3.7	3.5	0.6	7	0.3	0.3	0.2	83	0.11	0.038	6
L56891+00N 7069+75E	Soil	1.0	14.3	10.3	22	0.3	9.7	3.1	143	2.07	2.5	1.0	0.3	6	0.3	0.2	0.2	56	0.08	0.044	6

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56891+00N 7065+75E	Soil	69	0.90	173	0.168	1	2.22	0.009	0.05	0.1	0.07	3.9	<0.1	0.07	7	<0.5	<0.2
L56891+00N 7066+00E	Soil	31	0.31	95	0.155	<1	1.27	0.007	0.02	0.1	0.10	1.3	<0.1	<0.05	8	<0.5	<0.2
L56891+00N 7066+25E	Soil	19	0.12	55	0.130	<1	1.00	0.008	0.02	<0.1	0.07	0.8	<0.1	0.07	9	<0.5	<0.2
L56891+00N 7066+50E	Soil	44	0.53	65	0.204	1	2.01	0.007	0.03	<0.1	0.08	2.1	<0.1	<0.05	8	<0.5	<0.2
L56891+00N 7066+75E	Soil	48	0.64	69	0.198	<1	2.00	0.006	0.02	<0.1	0.06	2.4	<0.1	<0.05	7	<0.5	<0.2
L56891+00N 7067+00E	Soil	47	0.62	66	0.174	1	2.29	0.007	0.02	0.1	0.07	2.5	<0.1	<0.05	7	<0.5	<0.2
L56891+00N 7067+25E	Soil	50	0.59	61	0.211	1	2.66	0.012	0.03	0.1	0.08	3.3	<0.1	<0.05	7	0.6	<0.2
L56891+00N 7067+50E	Soil	38	0.44	78	0.197	2	1.70	0.010	0.04	<0.1	0.06	1.9	<0.1	<0.05	8	0.6	<0.2
L56891+00N 7067+75E	Soil	48	0.57	75	0.239	<1	1.89	0.009	0.03	<0.1	0.07	2.2	<0.1	<0.05	8	<0.5	<0.2
L56891+00N 7068+00E	Soil	61	0.97	62	0.275	<1	2.07	0.009	0.04	0.1	0.13	3.4	<0.1	<0.05	6	1.1	<0.2
L56891+00N 7068+25E	Soil	40	0.48	54	0.183	<1	1.80	0.008	0.03	0.1	0.10	2.4	<0.1	<0.05	7	<0.5	<0.2
L56891+00N 7068+50E	Soil	22	0.15	53	0.134	<1	0.99	0.011	0.02	<0.1	0.05	1.0	<0.1	<0.05	8	0.7	<0.2
L56891+00N 7068+75E	Soil	34	0.40	83	0.144	1	1.47	0.012	0.04	<0.1	0.07	1.4	<0.1	<0.05	9	<0.5	<0.2
L56891+00N 7069+00E	Soil	29	0.30	86	0.164	<1	1.47	0.008	0.03	<0.1	0.15	1.6	<0.1	0.05	8	<0.5	<0.2
L56891+00N 7069+25E	Soil	45	0.45	69	0.184	<1	2.60	0.007	0.03	<0.1	0.13	2.5	<0.1	<0.05	8	1.1	<0.2
L56891+00N 7069+50E	Soil	41	0.42	70	0.176	<1	1.43	0.009	0.03	<0.1	0.06	1.8	<0.1	<0.05	8	<0.5	<0.2
L56891+00N 7069+75E	Soil	26	0.23	73	0.115	<1	1.13	0.010	0.03	<0.1	0.06	1.0	<0.1	<0.05	8	<0.5	<0.2

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Client: **PAC Geological Consulting Inc.**
3707 W. 34th Ave.
Vancouver BC V6N 2C9 Canada

Project: CCS 2011
Report Date: September 18, 2011

QUALITY CONTROL REPORT VAN11003590.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
L56879+00N 7084+00E	Soil	0.8	9.9	10.0	30	<0.1	11.4	3.3	101	2.13	3.3	10.1	0.6	5	0.2	0.2	0.2	53	0.09	0.027	5
REP L56879+00N 7084+00E	QC	0.9	9.7	9.8	29	<0.1	11.3	3.1	100	2.12	3.3	0.6	0.6	5	0.2	0.1	0.2	53	0.09	0.027	4
L56880+00N 7071+25E	Soil	1.6	20.8	9.0	75	<0.1	20.8	13.8	1316	2.52	72.6	<0.5	0.5	16	0.4	0.2	0.2	72	0.61	0.060	6
REP L56880+00N 7071+25E	QC	1.7	21.1	9.4	78	<0.1	21.5	14.2	1354	2.56	75.5	1.7	0.6	16	0.4	0.2	0.2	71	0.63	0.062	6
L56880+00N 7076+00E	Soil	0.9	16.8	11.2	39	<0.1	13.4	5.6	249	2.16	3.0	1.6	0.7	6	0.2	0.2	0.3	55	0.12	0.030	3
REP L56880+00N 7076+00E	QC	0.9	17.7	12.1	42	<0.1	14.2	5.7	256	2.24	3.3	1.0	0.7	6	0.1	0.3	0.3	56	0.13	0.031	3
L56880+00N 7081+25E	Soil	1.0	10.2	8.3	32	0.3	18.5	5.3	193	2.16	2.3	<0.5	0.4	8	0.2	0.2	0.2	57	0.16	0.037	4
REP L56880+00N 7081+25E	QC	1.0	10.1	8.1	33	0.3	18.4	5.1	193	2.14	2.1	1.7	0.4	8	0.1	0.2	0.1	56	0.17	0.037	4
L56880+00N 7085+75E	Soil	0.9	9.1	9.3	34	0.2	12.6	4.9	366	2.26	2.4	4.2	0.8	6	0.1	0.2	0.2	60	0.10	0.032	6
REP L56880+00N 7085+75E	QC	0.9	9.0	9.1	32	0.2	12.1	4.7	357	2.19	2.2	<0.5	0.8	6	0.1	0.1	0.2	59	0.08	0.031	5
L56888+00N 7065+50E	Soil	0.8	40.5	13.7	21	0.2	12.3	3.6	96	1.24	1.3	<0.5	<0.1	8	0.5	0.1	0.2	34	0.11	0.070	5
REP L56888+00N 7065+50E	QC	0.8	41.3	13.9	22	0.2	12.1	3.5	94	1.22	1.2	0.7	<0.1	9	0.5	0.2	0.2	32	0.11	0.071	5
L56888+00N 7067+50E	Soil	0.6	13.7	8.2	24	0.2	10.6	3.9	161	1.93	1.6	1.5	0.3	9	<0.1	0.2	0.2	62	0.13	0.039	4
REP L56888+00N 7067+50E	QC	0.6	14.1	8.3	24	0.2	11.0	3.9	159	1.89	1.6	2.4	0.3	10	<0.1	0.1	0.2	63	0.13	0.042	4
L56889+00N 7064+75E	Soil	1.1	44.4	9.3	57	0.4	31.3	14.0	270	2.45	22.3	0.9	0.2	9	0.5	0.3	0.2	67	0.27	0.070	12
REP L56889+00N 7064+75E	QC	1.1	46.1	9.7	62	0.5	32.6	14.5	281	2.50	24.4	1.2	0.2	9	0.5	0.3	0.2	68	0.29	0.080	13
L56889+00N 7092+50E	Soil	1.0	14.8	14.2	42	0.2	13.2	7.0	532	2.89	4.7	15.6	0.7	6	0.2	0.3	0.3	76	0.10	0.036	6
REP L56889+00N 7092+50E	QC	1.0	16.1	15.1	43	0.2	13.5	7.1	545	2.92	4.8	3.0	0.8	6	0.1	0.4	0.3	78	0.10	0.038	6
L56890+00N 7064+75E	Soil	1.3	45.0	9.7	40	0.4	17.9	14.0	503	2.20	5.2	1.0	0.2	14	0.6	0.2	0.2	62	0.41	0.075	11
REP L56890+00N 7064+75E	QC	1.2	42.7	9.3	39	0.4	17.0	13.2	490	2.18	4.9	<0.5	0.2	13	0.5	0.2	0.2	61	0.41	0.072	11
L56890+00N 7091+25E	Soil	1.2	18.3	16.3	56	0.2	19.2	8.0	188	3.78	17.1	17.0	1.7	6	0.2	0.5	0.3	83	0.10	0.044	8
REP L56890+00N 7091+25E	QC	1.3	18.6	16.1	60	0.2	21.7	8.3	194	3.79	18.0	5.6	1.8	6	0.1	0.5	0.3	88	0.11	0.048	10
L56890+00N 7093+00E	Soil	1.3	9.4	6.1	22	0.3	9.7	2.0	48	2.74	3.2	0.7	0.4	9	0.2	0.5	0.2	87	0.01	0.045	3
REP L56890+00N 7093+00E	QC	2.1	10.1	7.1	24	0.3	10.2	2.1	50	3.09	3.1	5.2	0.4	11	0.3	0.6	0.2	92	0.02	0.053	4
Reference Materials																					
STD DS8	Standard	14.2	109.8	125.5	318	1.8	39.2	7.6	634	2.54	27.3	112.8	7.2	71	2.0	5.9	6.9	45	0.73	0.081	16
STD DS8	Standard	11.5	102.6	116.8	295	1.8	36.8	6.9	595	2.36	24.8	117.9	5.8	60	2.2	5.0	6.5	38	0.66	0.079	12
STD DS8	Standard	11.6	101.0	116.3	295	1.7	35.0	7.0	565	2.33	24.2	108.3	6.4	60	2.3	5.1	7.0	39	0.63	0.078	13

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QUALITY CONTROL REPORT VAN11003590.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
L56879+00N 7084+00E	Soil		30	0.22	82	0.138	<1	1.08	0.010	0.02	0.1	0.04	1.0	<0.1	<0.05	9	<0.5	<0.2
REP L56879+00N 7084+00E	QC		30	0.20	80	0.139	1	1.07	0.010	0.02	0.1	0.04	0.9	<0.1	<0.05	9	<0.5	<0.2
L56880+00N 7071+25E	Soil		36	0.50	79	0.086	1	1.66	0.013	0.03	<0.1	0.05	2.2	<0.1	<0.05	7	0.5	<0.2
REP L56880+00N 7071+25E	QC		38	0.51	84	0.087	<1	1.72	0.014	0.03	<0.1	0.05	2.2	<0.1	<0.05	7	0.5	<0.2
L56880+00N 7076+00E	Soil		29	0.25	64	0.137	<1	0.77	0.009	0.03	0.1	0.03	1.0	<0.1	<0.05	8	0.5	<0.2
REP L56880+00N 7076+00E	QC		30	0.26	66	0.141	<1	0.80	0.010	0.03	0.1	0.03	1.1	<0.1	<0.05	9	<0.5	<0.2
L56880+00N 7081+25E	Soil		43	0.41	83	0.133	<1	0.95	0.009	0.03	0.1	0.05	1.2	<0.1	<0.05	7	<0.5	<0.2
REP L56880+00N 7081+25E	QC		42	0.41	83	0.131	<1	0.95	0.009	0.03	0.1	0.05	1.2	<0.1	<0.05	7	<0.5	<0.2
L56880+00N 7085+75E	Soil		32	0.26	65	0.147	<1	0.96	0.010	0.03	0.1	0.02	1.2	<0.1	<0.05	8	<0.5	<0.2
REP L56880+00N 7085+75E	QC		32	0.25	65	0.138	<1	0.93	0.009	0.03	<0.1	0.02	1.0	<0.1	<0.05	7	<0.5	<0.2
L56888+00N 7065+50E	Soil		20	0.14	84	0.071	<1	1.15	0.009	0.03	<0.1	0.03	0.3	<0.1	<0.05	5	<0.5	<0.2
REP L56888+00N 7065+50E	QC		21	0.14	90	0.071	<1	1.14	0.010	0.03	<0.1	0.04	0.4	<0.1	<0.05	5	<0.5	<0.2
L56888+00N 7067+50E	Soil		25	0.21	83	0.186	<1	0.71	0.008	0.02	<0.1	0.06	0.8	<0.1	0.06	6	<0.5	<0.2
REP L56888+00N 7067+50E	QC		25	0.21	83	0.192	<1	0.73	0.008	0.02	<0.1	0.05	0.8	<0.1	<0.05	6	<0.5	<0.2
L56889+00N 7064+75E	Soil		77	0.51	83	0.071	<1	2.62	0.011	0.04	<0.1	0.13	3.4	<0.1	0.06	5	1.5	<0.2
REP L56889+00N 7064+75E	QC		80	0.52	82	0.086	<1	2.71	0.011	0.04	0.1	0.09	3.2	<0.1	0.06	6	1.6	<0.2
L56889+00N 7092+50E	Soil		32	0.30	51	0.126	<1	1.14	0.007	0.04	0.1	0.04	1.2	<0.1	<0.05	8	<0.5	<0.2
REP L56889+00N 7092+50E	QC		33	0.30	54	0.130	<1	1.19	0.007	0.05	<0.1	0.04	1.2	<0.1	<0.05	8	<0.5	<0.2
L56890+00N 7064+75E	Soil		32	0.31	142	0.102	<1	1.44	0.009	0.03	0.1	0.11	1.6	<0.1	0.06	6	<0.5	<0.2
REP L56890+00N 7064+75E	QC		32	0.31	135	0.104	1	1.43	0.009	0.04	<0.1	0.09	1.4	<0.1	0.05	6	<0.5	<0.2
L56890+00N 7091+25E	Soil		46	0.41	117	0.150	<1	1.23	0.008	0.02	0.2	0.08	2.6	<0.1	0.06	7	<0.5	<0.2
REP L56890+00N 7091+25E	QC		48	0.39	113	0.179	2	1.22	0.009	0.03	0.3	0.08	2.7	<0.1	0.07	7	0.6	<0.2
L56890+00N 7093+00E	Soil		15	0.06	154	0.044	2	0.71	0.006	0.02	0.2	0.04	1.4	<0.1	0.12	7	<0.5	<0.2
REP L56890+00N 7093+00E	QC		16	0.06	184	0.042	1	0.77	0.008	0.03	0.2	0.05	1.6	<0.1	0.10	8	<0.5	<0.2
Reference Materials																		
STD DS8	Standard		124	0.63	279	0.129	3	0.95	0.093	0.44	3.0	0.18	2.3	5.4	0.17	5	5.1	5.1
STD DS8	Standard		107	0.60	282	0.100	3	0.87	0.092	0.44	2.9	0.21	3.0	5.5	0.19	5	5.2	4.8
STD DS8	Standard		105	0.57	264	0.099	2	0.84	0.084	0.39	2.9	0.18	1.7	5.1	0.14	4	4.8	4.6

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD DS8	Standard	11.7	101.1	119.8	292	1.7	35.2	7.0	566	2.32	24.0	101.8	6.6	57	2.3	5.0	6.5	39	0.62	0.072	13
STD DS8	Standard	11.9	102.2	117.7	298	1.7	34.2	6.9	564	2.30	24.6	94.8	5.9	60	2.4	4.9	6.1	38	0.64	0.075	12
STD DS8	Standard	13.2	111.9	122.6	307	1.7	37.5	7.3	586	2.44	24.7	111.6	6.2	62	2.2	4.9	6.4	43	0.66	0.081	14
STD DS8	Standard	12.4	101.9	123.8	295	1.7	35.8	7.1	542	2.26	22.1	105.2	5.6	57	2.0	4.6	5.7	40	0.60	0.069	13
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	108	0.55	261	0.096	3	0.82	0.076	0.39	2.6	0.17	1.7	5.0	0.15	4	5.1	4.7
STD DS8	Standard	106	0.57	242	0.100	2	0.82	0.081	0.39	2.6	0.16	2.2	5.0	0.14	4	4.3	4.5
STD DS8	Standard	116	0.62	292	0.114	2	0.88	0.083	0.39	2.9	0.15	1.8	5.4	0.16	5	5.0	4.9
STD DS8	Standard	110	0.57	237	0.101	1	0.77	0.071	0.38	2.8	0.19	1.8	5.3	0.16	4	4.7	4.4
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Client: **PAC Geological Consulting Inc.**
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Submitted By: Peter Christopher
Receiving Lab: Canada-Vancouver
Received: July 30, 2011
Report Date: September 20, 2011
Page: 1 of 9

CERTIFICATE OF ANALYSIS VAN11003589.1

CLIENT JOB INFORMATION

Project: CCS 2011
Shipment ID:
P.O. Number
Number of Samples: 224

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	224	Dry at 60C			VAN
SS80	224	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	222	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: PAC Geological Consulting Inc.
3707 W. 34th Ave.
Vancouver BC V6N 2C9
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
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Client: **PAC Geological Consulting Inc.**
3707 W. 34th Ave.
Vancouver BC V6N 2C9 Canada

Project: CCS 2011
Report Date: September 20, 2011

CERTIFICATE OF ANALYSIS VAN11003589.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56876+00N 7070+00E	Soil	0.5	23.1	9.5	39	0.1	24.3	10.8	795	2.73	4.8	2.0	1.1	7	0.1	0.3	0.2	65	0.24	0.055	5
L56876+00N 7070+25E	Soil	0.4	6.2	11.6	19	0.2	4.2	1.9	95	0.88	0.7	1.4	0.2	8	0.1	0.5	0.3	54	0.14	0.023	4
L56876+00N 7070+50E	Soil	0.4	5.6	12.8	19	0.1	3.4	1.4	574	0.59	1.1	0.6	0.1	11	0.2	0.2	0.3	36	0.22	0.023	4
L56876+00N 7070+75E	Soil	0.4	9.8	11.2	21	0.2	5.9	1.7	60	0.80	1.0	1.6	<0.1	11	0.1	<0.1	0.2	42	0.19	0.028	4
L56876+00N 7071+00E	Soil	0.4	21.4	4.1	30	<0.1	20.5	9.4	212	2.09	4.4	2.7	1.0	7	0.1	0.2	<0.1	63	0.35	0.028	5
L56876+00N 7071+25E	Soil	0.3	12.5	7.3	18	0.2	6.1	2.0	73	1.32	0.8	0.6	0.3	8	0.1	0.1	0.2	67	0.15	0.024	4
L56876+00N 7071+50E	Soil	0.6	11.6	8.1	17	0.1	5.9	2.1	67	1.58	1.8	0.8	0.3	6	0.1	0.2	0.2	68	0.09	0.030	3
L56876+00N 7071+75E	Soil	0.8	17.0	8.8	26	0.5	6.6	2.1	63	0.93	1.3	0.9	<0.1	8	0.2	0.1	0.2	38	0.14	0.044	4
L56876+00N 7072+00E	Soil	0.4	10.3	9.7	11	0.1	2.6	0.6	17	0.44	<0.5	<0.5	<0.1	5	<0.1	<0.1	0.2	28	0.06	0.022	3
L56876+00N 7072+25E	Soil	0.5	8.4	5.5	8	0.7	3.5	2.2	23	0.48	0.9	<0.5	<0.1	8	0.3	<0.1	0.2	18	0.11	0.075	6
L56876+00N 7072+50E	Soil	0.5	36.0	6.0	33	0.2	15.4	5.9	116	1.47	7.1	0.8	0.2	6	0.2	0.2	0.1	43	0.17	0.076	14
L56876+00N 7072+75E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56876+00N 7073+00E	Soil	0.7	23.5	9.7	12	0.3	5.5	2.6	41	0.71	0.9	8.8	<0.1	6	0.2	0.1	0.2	29	0.07	0.056	5
L56876+00N 7073+25E	Soil	0.3	9.3	8.5	23	0.1	7.2	3.4	130	1.51	1.1	9.9	0.2	5	0.1	0.2	0.2	61	0.11	0.032	4
L56876+00N 7073+50E	Soil	0.5	13.8	12.3	33	<0.1	9.4	5.8	251	1.52	2.7	1.0	<0.1	10	<0.1	0.2	0.2	59	0.26	0.049	3
L56876+00N 7073+75E	Soil	0.7	13.2	9.4	31	<0.1	9.3	6.6	477	1.99	2.5	2.2	0.5	7	0.1	0.3	0.2	78	0.16	0.029	3
L56876+00N 7074+00E	Soil	0.6	17.4	11.3	44	0.2	16.1	10.9	887	2.85	3.6	357.7	0.4	13	0.1	0.4	0.2	95	0.29	0.067	4
L56876+00N 7074+25E	Soil	0.5	17.6	9.4	24	0.1	7.0	4.7	179	1.09	1.1	<0.5	<0.1	7	0.1	0.1	0.2	42	0.10	0.038	4
L56876+00N 7074+50E	Soil	0.6	12.4	11.9	20	<0.1	5.7	2.5	162	1.32	2.1	0.5	<0.1	8	0.1	0.2	0.3	48	0.13	0.032	3
L56876+00N 7074+75E	Soil	1.0	17.2	7.0	20	0.2	11.6	3.7	96	1.59	1.6	<0.5	0.2	6	0.3	0.1	0.2	65	0.10	0.045	5
L56876+00N 7075+00E	Soil	0.5	15.2	14.5	38	<0.1	11.6	5.4	304	1.98	2.4	2.6	0.5	8	0.2	0.3	0.2	73	0.17	0.046	5
L56876+00N 7075+25E	Soil	1.1	41.9	7.2	22	0.2	11.6	5.0	163	1.11	1.3	<0.5	<0.1	9	0.5	0.1	0.2	33	0.16	0.093	8
L56876+00N 7075+50E	Soil	0.8	12.9	8.1	38	<0.1	14.3	5.9	244	2.50	2.4	<0.5	0.6	8	<0.1	0.2	0.2	66	0.15	0.041	4
L56876+00N 7075+75E	Soil	0.7	13.5	8.0	44	<0.1	13.9	6.1	239	2.70	2.0	1.1	1.2	8	0.2	0.2	0.2	75	0.15	0.036	4
L56876+00N 7076+00E	Soil	0.6	13.9	7.0	43	<0.1	17.0	7.2	276	2.69	3.2	2.2	0.8	9	0.1	0.2	0.1	70	0.22	0.035	5
L56876+00N 7076+25E	Soil	0.9	21.0	7.8	42	<0.1	21.0	12.1	830	2.72	2.5	<0.5	0.5	8	0.1	0.2	0.2	78	0.17	0.045	5
L56876+00N 7076+50E	Soil	0.9	18.8	8.8	42	0.1	20.0	14.8	399	2.91	2.4	0.9	0.4	15	0.2	0.2	0.2	66	0.41	0.038	4
L56876+00N 7076+75E	Soil	0.9	13.3	9.0	39	<0.1	11.3	6.0	643	2.01	1.9	3.9	0.5	8	<0.1	0.1	0.2	65	0.15	0.031	4
L56876+00N 7077+00E	Soil	1.0	14.7	7.8	38	0.2	15.4	7.0	223	2.91	2.8	7.7	1.1	9	0.2	0.2	0.1	87	0.17	0.031	4
L56876+00N 7077+25E	Soil	0.9	33.3	8.9	61	0.3	29.7	17.9	533	2.90	5.5	2.0	0.7	17	0.2	0.2	0.2	70	0.38	0.036	8

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		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56876+00N 7070+00E	Soil		46	0.66	79	0.235	2	1.73	0.009	0.03	0.1	0.12	2.2	<0.1	0.07	5	0.6	<0.2
L56876+00N 7070+25E	Soil		15	0.07	71	0.202	<1	0.35	0.010	0.02	<0.1	0.04	0.7	<0.1	<0.05	5	0.8	<0.2
L56876+00N 7070+50E	Soil		16	0.06	74	0.176	1	0.32	0.008	0.02	<0.1	0.06	0.6	<0.1	0.08	4	<0.5	<0.2
L56876+00N 7070+75E	Soil		18	0.12	68	0.178	<1	0.51	0.008	0.02	<0.1	0.05	0.5	<0.1	0.05	7	0.7	<0.2
L56876+00N 7071+00E	Soil		41	0.64	30	0.300	<1	1.47	0.007	0.01	<0.1	0.02	2.4	<0.1	<0.05	4	0.8	<0.2
L56876+00N 7071+25E	Soil		20	0.09	76	0.211	<1	0.44	0.008	0.03	<0.1	0.03	0.8	<0.1	<0.05	5	0.5	<0.2
L56876+00N 7071+50E	Soil		18	0.10	45	0.216	<1	0.66	0.010	0.02	<0.1	0.06	0.8	<0.1	<0.05	6	0.6	<0.2
L56876+00N 7071+75E	Soil		21	0.11	71	0.144	<1	0.70	0.012	0.02	<0.1	0.07	0.8	<0.1	0.06	7	0.5	<0.2
L56876+00N 7072+00E	Soil		13	0.03	49	0.115	<1	0.46	0.012	0.02	<0.1	0.04	0.4	<0.1	<0.05	6	<0.5	<0.2
L56876+00N 7072+25E	Soil		10	0.04	33	0.040	1	0.83	0.014	0.02	<0.1	0.06	0.5	<0.1	0.09	3	1.3	<0.2
L56876+00N 7072+50E	Soil		38	0.36	72	0.077	<1	2.18	0.010	0.02	<0.1	0.08	2.8	<0.1	0.07	4	1.6	<0.2
L56876+00N 7072+75E	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56876+00N 7073+00E	Soil		12	0.11	34	0.089	1	1.07	0.014	0.03	<0.1	0.05	0.7	<0.1	0.08	6	0.7	<0.2
L56876+00N 7073+25E	Soil		21	0.15	46	0.186	1	0.61	0.010	0.02	<0.1	0.03	0.9	<0.1	<0.05	5	1.0	<0.2
L56876+00N 7073+50E	Soil		15	0.32	51	0.137	2	0.67	0.008	0.04	<0.1	0.06	1.2	<0.1	<0.05	6	0.7	<0.2
L56876+00N 7073+75E	Soil		24	0.25	74	0.211	<1	0.63	0.009	0.02	<0.1	0.04	1.1	<0.1	<0.05	6	<0.5	<0.2
L56876+00N 7074+00E	Soil		37	0.40	122	0.308	2	1.07	0.012	0.04	0.1	0.06	1.8	<0.1	<0.05	7	1.2	<0.2
L56876+00N 7074+25E	Soil		16	0.14	55	0.094	<1	0.71	0.011	0.03	<0.1	0.04	0.5	<0.1	<0.05	6	<0.5	<0.2
L56876+00N 7074+50E	Soil		15	0.08	95	0.120	<1	0.46	0.009	0.02	<0.1	0.06	0.5	<0.1	<0.05	5	0.8	<0.2
L56876+00N 7074+75E	Soil		31	0.25	48	0.187	1	1.10	0.010	0.02	<0.1	0.05	1.3	<0.1	0.06	6	<0.5	<0.2
L56876+00N 7075+00E	Soil		31	0.30	75	0.264	2	0.71	0.009	0.03	0.1	0.05	1.4	<0.1	0.06	5	1.2	<0.2
L56876+00N 7075+25E	Soil		20	0.15	57	0.051	1	1.32	0.014	0.03	<0.1	0.08	0.9	<0.1	0.07	5	0.9	<0.2
L56876+00N 7075+50E	Soil		29	0.32	75	0.213	<1	1.04	0.009	0.02	0.1	0.06	1.3	<0.1	<0.05	7	<0.5	<0.2
L56876+00N 7075+75E	Soil		31	0.34	70	0.281	<1	1.12	0.010	0.02	0.2	0.04	1.6	<0.1	<0.05	8	<0.5	<0.2
L56876+00N 7076+00E	Soil		36	0.43	74	0.244	<1	1.19	0.010	0.02	0.1	0.06	1.6	<0.1	<0.05	7	<0.5	<0.2
L56876+00N 7076+25E	Soil		44	0.41	92	0.266	<1	1.03	0.011	0.03	0.2	0.03	1.8	<0.1	0.05	7	0.5	<0.2
L56876+00N 7076+50E	Soil		41	0.33	258	0.194	1	0.98	0.012	0.03	0.1	0.11	1.6	<0.1	<0.05	8	0.7	<0.2
L56876+00N 7076+75E	Soil		25	0.26	166	0.208	1	0.77	0.010	0.03	0.1	0.04	1.2	<0.1	<0.05	7	0.5	<0.2
L56876+00N 7077+00E	Soil		36	0.42	97	0.302	<1	0.96	0.009	0.02	0.1	0.05	1.6	<0.1	<0.05	7	<0.5	<0.2
L56876+00N 7077+25E	Soil		51	0.63	224	0.173	2	1.68	0.012	0.04	<0.1	0.07	2.9	<0.1	<0.05	7	0.9	<0.2

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Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56876+00N 7077+50E	Soil	0.8	13.0	8.7	66	<0.1	17.2	10.7	1454	2.63	5.6	1.6	0.8	14	0.2	0.2	0.2	74	0.31	0.043	7
L56876+00N 7077+75E	Soil	0.7	24.1	9.3	41	0.3	21.6	13.1	364	2.37	3.7	6.8	0.3	12	0.3	0.2	0.2	63	0.23	0.041	9
L56876+00N 7078+00E	Soil	0.6	13.9	12.3	47	0.1	14.6	6.9	290	2.77	4.3	<0.5	0.6	9	0.1	0.3	0.2	75	0.19	0.052	5
L56876+00N 7078+25E	Soil	0.7	13.5	8.7	42	0.1	17.7	6.6	314	2.57	3.6	2.5	0.5	8	0.1	0.2	0.2	76	0.18	0.040	6
L56876+00N 7078+50E	Soil	0.6	13.9	8.4	40	0.2	17.8	5.8	229	2.33	3.8	1.3	0.3	14	0.3	0.2	0.2	63	0.24	0.045	4
L56876+00N 7078+75E	Soil	0.7	18.4	8.1	44	0.2	19.8	7.9	252	3.07	3.9	1.5	0.9	8	0.3	0.2	0.2	77	0.15	0.041	6
L56876+00N 7079+50E	Soil	0.8	16.5	8.0	41	0.3	18.5	7.0	352	2.99	3.5	5.6	0.6	10	0.4	0.4	0.4	82	0.19	0.049	5
L56876+00N 7079+75E	Soil	0.9	45.5	14.4	42	0.2	29.4	17.2	619	2.87	5.8	1.8	0.5	9	0.3	0.5	0.4	73	0.13	0.049	6
L56877+00N 7070+00E	Soil	0.7	19.6	5.6	44	0.1	20.6	8.7	212	2.90	4.5	20.4	1.5	7	0.3	0.3	0.1	73	0.27	0.037	7
L56877+00N 7070+25E	Soil	0.5	33.8	5.3	37	0.2	25.8	13.8	317	2.63	5.3	1.0	1.3	9	0.3	0.3	<0.1	75	0.37	0.030	6
L56877+00N 7070+50E	Soil	0.7	49.1	10.2	17	0.6	10.6	6.3	412	1.12	1.7	1.1	<0.1	6	0.2	0.1	0.2	32	0.09	0.060	9
L56877+00N 7070+75E	Soil	0.6	25.6	6.3	38	0.1	19.2	9.7	388	3.00	3.2	1.3	0.8	8	0.1	0.2	0.1	100	0.19	0.039	4
L56877+00N 7071+00E	Soil	0.5	12.1	13.9	24	0.1	4.4	1.1	91	0.86	2.6	<0.5	<0.1	6	0.3	0.2	0.2	26	0.11	0.047	2
L56877+00N 7071+25E	Soil	1.2	59.2	8.7	32	0.4	17.5	13.7	589	1.22	2.8	2.1	0.1	19	0.4	0.3	<0.1	42	0.55	0.141	16
L56877+00N 7071+50E	Soil	0.6	13.3	9.1	21	0.1	6.5	2.9	120	1.27	1.5	<0.5	0.1	7	0.1	0.1	0.2	54	0.11	0.047	3
L56877+00N 7071+75E	Soil	1.2	18.7	10.7	24	0.3	6.8	3.2	154	2.39	1.1	<0.5	0.2	6	0.3	<0.1	0.2	53	0.08	0.044	5
L56877+00N 7072+00E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56877+00N 7072+25E	Soil	0.9	40.1	9.5	24	0.3	11.6	6.4	248	1.38	3.4	0.9	0.4	14	0.3	0.1	<0.1	51	0.42	0.080	17
L56877+00N 7072+50E	Soil	0.4	9.9	16.6	20	<0.1	5.1	2.5	54	0.95	1.0	1.5	0.3	8	<0.1	0.1	<0.1	65	0.14	0.027	4
L56877+00N 7072+75E	Soil	0.7	42.4	10.2	21	0.4	8.8	5.3	150	1.47	1.2	0.6	0.1	9	0.3	<0.1	0.2	46	0.19	0.050	8
L56877+00N 7073+00E	Soil	0.8	84.8	12.6	25	0.4	23.6	18.6	1774	1.37	2.6	0.8	<0.1	26	0.3	0.6	<0.1	42	0.89	0.110	28
L56877+00N 7073+25E	Soil	0.7	23.3	7.3	49	0.2	19.6	12.3	629	3.14	4.2	1.0	0.9	8	0.1	0.2	<0.1	90	0.18	0.041	6
L56877+00N 7073+50E	Soil	0.7	21.3	8.2	37	0.1	15.4	10.3	420	2.70	2.4	1.1	0.7	9	0.1	0.2	0.1	83	0.21	0.035	6
L56877+00N 7073+75E	Soil	0.9	34.7	10.5	48	0.1	14.8	19.7	1613	2.48	2.2	1.1	0.3	9	0.2	0.2	0.1	70	0.23	0.054	8
L56877+00N 7074+00E	Soil	0.8	13.9	11.1	36	<0.1	10.1	6.6	350	2.26	1.5	1.0	0.3	7	0.1	0.2	0.2	63	0.11	0.045	4
L56877+00N 7074+25E	Soil	0.6	20.9	7.9	47	0.1	23.5	9.9	453	3.19	4.1	1.2	1.0	9	0.1	0.2	<0.1	94	0.22	0.049	5
L56877+00N 7074+50E	Soil	0.9	14.5	8.7	43	<0.1	17.9	7.4	262	3.02	2.9	1.6	1.4	7	<0.1	0.2	0.1	93	0.16	0.036	4
L56877+00N 7074+75E	Soil	0.9	15.7	9.9	31	<0.1	15.4	5.8	157	2.85	2.4	6.9	1.3	6	0.1	0.2	0.1	80	0.12	0.028	4
L56877+00N 7075+00E	Soil	0.7	15.5	10.9	43	<0.1	18.8	7.1	249	3.00	3.1	1.1	1.3	7	0.1	0.2	0.1	90	0.14	0.040	4
L56877+00N 7075+25E	Soil	0.9	15.2	12.9	41	<0.1	12.0	5.2	256	2.49	1.9	<0.5	0.6	8	0.1	0.2	0.2	68	0.13	0.049	4

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Project: CCS 2011
Report Date: September 20, 2011

CERTIFICATE OF ANALYSIS VAN11003589.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56876+00N 7077+50E	Soil	38	0.42	351	0.253	2	1.13	0.012	0.03	0.2	0.13	1.9	<0.1	<0.05	7	1.0	<0.2
L56876+00N 7077+75E	Soil	40	0.47	155	0.162	1	1.41	0.012	0.04	<0.1	0.05	2.0	<0.1	<0.05	6	0.9	<0.2
L56876+00N 7078+00E	Soil	34	0.35	118	0.237	1	0.97	0.010	0.04	0.2	0.06	1.4	<0.1	0.06	7	1.3	<0.2
L56876+00N 7078+25E	Soil	41	0.44	102	0.200	1	1.06	0.010	0.03	<0.1	0.06	1.6	<0.1	<0.05	7	0.6	<0.2
L56876+00N 7078+50E	Soil	35	0.37	172	0.176	2	1.00	0.011	0.03	<0.1	0.08	1.4	<0.1	<0.05	7	<0.5	<0.2
L56876+00N 7078+75E	Soil	41	0.44	83	0.276	2	1.49	0.009	0.03	0.2	0.06	2.0	<0.1	0.05	8	1.7	<0.2
L56876+00N 7079+50E	Soil	38	0.42	127	0.231	1	1.36	0.010	0.03	0.2	0.07	1.7	<0.1	0.06	8	<0.5	<0.2
L56876+00N 7079+75E	Soil	46	0.49	251	0.155	1	1.43	0.012	0.04	0.1	0.08	1.8	<0.1	<0.05	8	<0.5	<0.2
L56877+00N 7070+00E	Soil	52	0.61	52	0.258	<1	2.10	0.009	0.03	0.1	0.08	2.5	<0.1	<0.05	5	<0.5	<0.2
L56877+00N 7070+25E	Soil	59	0.71	67	0.304	<1	1.76	0.009	0.02	0.1	0.05	4.1	<0.1	<0.05	5	<0.5	<0.2
L56877+00N 7070+50E	Soil	26	0.12	80	0.046	<1	1.78	0.015	0.03	<0.1	0.10	1.4	<0.1	0.06	7	<0.5	<0.2
L56877+00N 7070+75E	Soil	45	0.59	71	0.369	<1	1.34	0.009	0.02	0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2
L56877+00N 7071+00E	Soil	10	0.03	82	0.040	<1	0.34	0.015	0.02	<0.1	0.07	0.1	<0.1	<0.05	6	<0.5	<0.2
L56877+00N 7071+25E	Soil	70	0.27	101	0.052	<1	2.24	0.015	0.03	0.1	0.13	1.8	<0.1	0.17	4	1.2	<0.2
L56877+00N 7071+50E	Soil	24	0.10	65	0.147	<1	0.47	0.010	0.02	<0.1	0.05	0.9	<0.1	0.05	5	<0.5	<0.2
L56877+00N 7071+75E	Soil	20	0.09	71	0.148	<1	1.33	0.014	0.02	<0.1	0.07	1.0	<0.1	0.05	11	<0.5	<0.2
L56877+00N 7072+00E	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56877+00N 7072+25E	Soil	27	0.25	63	0.118	<1	1.37	0.015	0.03	<0.1	0.10	2.2	<0.1	0.10	5	0.6	<0.2
L56877+00N 7072+50E	Soil	13	0.06	93	0.175	<1	0.35	0.012	0.02	<0.1	0.04	0.8	<0.1	<0.05	4	<0.5	<0.2
L56877+00N 7072+75E	Soil	16	0.13	57	0.091	<1	1.08	0.016	0.02	<0.1	0.07	1.6	<0.1	0.06	8	<0.5	<0.2
L56877+00N 7073+00E	Soil	32	0.28	120	0.057	2	2.19	0.019	0.04	0.2	0.18	3.6	0.1	0.17	4	<0.5	<0.2
L56877+00N 7073+25E	Soil	41	0.51	100	0.265	<1	1.28	0.010	0.03	0.1	0.03	2.7	<0.1	<0.05	7	<0.5	<0.2
L56877+00N 7073+50E	Soil	35	0.34	75	0.264	<1	1.15	0.011	0.02	<0.1	0.06	1.7	<0.1	<0.05	7	<0.5	<0.2
L56877+00N 7073+75E	Soil	27	0.29	82	0.148	<1	1.25	0.013	0.03	<0.1	0.07	2.2	<0.1	0.06	9	<0.5	<0.2
L56877+00N 7074+00E	Soil	21	0.21	71	0.166	<1	0.81	0.012	0.03	<0.1	0.07	1.1	<0.1	<0.05	9	<0.5	<0.2
L56877+00N 7074+25E	Soil	51	0.61	93	0.304	<1	1.51	0.011	0.03	0.1	0.06	2.2	<0.1	0.05	7	<0.5	<0.2
L56877+00N 7074+50E	Soil	40	0.49	62	0.324	<1	1.21	0.010	0.02	0.1	0.03	1.9	<0.1	<0.05	8	<0.5	<0.2
L56877+00N 7074+75E	Soil	33	0.40	39	0.260	<1	1.17	0.010	0.02	<0.1	0.06	1.6	<0.1	<0.05	9	<0.5	<0.2
L56877+00N 7075+00E	Soil	38	0.47	80	0.308	<1	1.18	0.009	0.02	<0.1	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
L56877+00N 7075+25E	Soil	26	0.25	59	0.206	<1	0.85	0.010	0.03	0.1	0.07	1.1	<0.1	<0.05	9	<0.5	<0.2

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Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56877+00N 7075+50E	Soil	0.8	15.8	9.7	39	0.1	14.2	7.3	363	2.57	2.2	1.3	0.5	7	0.2	0.2	0.1	77	0.12	0.050	4
L56877+00N 7075+75E	Soil	0.7	13.7	13.0	35	0.1	13.0	5.0	240	2.31	2.0	1.3	0.5	8	<0.1	0.2	0.1	78	0.16	0.050	5
L56877+00N 7076+00E	Soil	0.9	15.5	7.8	49	0.1	20.0	8.5	293	3.03	3.2	0.7	0.8	7	0.1	0.2	<0.1	80	0.16	0.047	6
L56877+00N 7076+25E	Soil	0.8	13.6	10.7	43	<0.1	13.3	7.8	414	2.60	2.8	2.3	0.6	8	0.1	0.2	0.1	79	0.15	0.053	4
L56877+00N 7076+50E	Soil	0.7	16.4	10.6	20	0.2	9.3	3.2	79	1.30	1.2	<0.5	0.2	9	0.4	<0.1	<0.1	60	0.16	0.032	5
L56877+00N 7076+75E	Soil	0.6	13.6	8.8	37	0.1	18.1	6.5	211	2.91	3.6	0.6	0.7	8	0.2	0.2	<0.1	89	0.16	0.057	6
L56877+00N 7077+00E	Soil	0.7	15.7	7.5	38	0.1	18.0	8.9	415	2.83	3.4	9.3	0.8	8	0.2	0.2	<0.1	92	0.16	0.042	4
L56877+00N 7077+25E	Soil	0.9	71.3	7.4	40	0.4	44.2	19.0	1317	1.82	19.3	<0.5	0.1	19	0.7	0.3	<0.1	48	1.10	0.091	12
L56877+00N 7077+50E	Soil	1.2	47.3	11.2	45	0.4	27.5	23.1	992	2.54	4.1	0.7	0.1	14	0.3	0.2	<0.1	67	0.28	0.059	13
L56877+00N 7077+75E	Soil	0.9	26.0	19.6	40	0.2	20.5	15.6	755	2.17	8.5	0.5	0.2	13	0.3	0.2	0.3	59	0.24	0.049	8
L56877+00N 7078+00E	Soil	0.7	14.4	9.4	30	0.1	15.1	6.2	256	2.35	1.9	4.1	0.5	7	0.1	0.2	0.2	72	0.12	0.030	5
L56877+00N 7078+25E	Soil	0.6	12.5	9.0	32	<0.1	15.9	5.6	165	2.53	2.5	1.3	0.5	10	0.1	0.1	0.1	77	0.16	0.041	5
L56877+00N 7078+50E	Soil	0.8	16.1	8.9	41	0.1	24.9	7.4	292	3.04	2.6	2.0	1.4	6	0.1	0.2	0.3	75	0.11	0.035	5
L56877+00N 7078+75E	Soil	0.8	21.0	8.9	37	0.2	21.7	11.9	831	3.09	2.6	2.0	0.9	6	0.2	0.2	0.3	80	0.10	0.034	5
L56877+00N 7079+00E	Soil	0.8	19.1	9.4	43	<0.1	23.8	7.7	201	3.59	4.6	6.7	1.5	10	<0.1	0.3	0.2	98	0.15	0.030	4
L56877+00N 7079+25E	Soil	0.9	30.3	8.9	44	0.4	45.6	14.9	326	3.33	49.9	4.9	1.3	6	0.5	0.3	0.2	73	0.14	0.042	7
L56877+00N 7079+50E	Soil	0.8	24.9	9.5	35	0.1	26.9	9.0	231	2.71	3.9	1.2	1.2	7	0.2	0.2	0.2	72	0.17	0.038	6
L56877+00N 7079+75E	Soil	0.5	12.3	10.1	19	0.1	11.1	3.1	143	1.08	0.9	<0.5	0.4	7	0.2	0.2	0.2	42	0.12	0.027	5
L56877+00N BL7080+00E	Soil	1.0	17.3	7.7	32	0.1	17.0	6.9	284	3.09	3.8	2.9	1.1	5	0.2	0.2	0.2	77	0.09	0.033	5
L56877+00N 7080+25E	Soil	0.7	23.8	8.1	25	0.6	13.5	5.0	160	2.19	1.8	0.7	0.4	5	0.4	0.2	0.2	63	0.08	0.043	6
L56877+00N 7080+50E	Soil	0.6	61.4	6.3	28	0.4	13.9	8.2	240	2.01	1.8	0.8	0.4	5	0.4	0.1	0.2	54	0.08	0.036	6
L56877+00N 7080+75E	Soil	0.6	35.2	8.2	28	0.8	14.6	6.6	194	2.10	2.2	<0.5	0.4	8	0.4	0.1	0.2	60	0.09	0.035	6
L56877+00N 7081+00E	Soil	0.8	58.2	7.1	47	0.7	25.0	11.1	249	2.43	3.6	4.1	0.5	8	0.2	0.1	0.2	63	0.13	0.040	8
L56877+00N 7081+25E	Soil	0.7	47.8	7.8	29	0.2	15.6	5.1	130	1.57	2.1	<0.5	0.3	7	0.3	0.1	0.2	49	0.11	0.038	6
L56877+00N 7081+50E	Soil	0.6	20.4	8.1	20	0.2	9.0	3.1	77	1.00	1.3	1.2	0.3	6	0.2	<0.1	0.2	37	0.07	0.024	5
L56877+00N 7081+75E	Soil	0.9	27.2	7.4	45	0.2	31.1	11.8	279	3.80	4.4	6.8	1.4	9	0.2	0.3	0.2	98	0.17	0.029	7
L56877+00N 7082+00E	Soil	0.6	33.5	10.0	39	0.4	21.3	10.7	378	2.24	3.7	1.4	0.6	11	0.3	0.2	0.2	65	0.20	0.049	6
L56877+00N 7082+25E	Soil	0.6	18.7	7.8	23	0.5	15.0	5.1	125	1.65	1.8	3.3	0.6	7	0.1	0.1	0.2	53	0.13	0.034	6
L56877+00N 7082+50E	Soil	0.7	34.8	5.9	57	0.1	49.4	17.7	370	3.89	8.6	2.9	2.1	10	0.2	0.3	<0.1	91	0.32	0.028	8
L56877+00N 7082+75E	Soil	1.0	27.1	9.3	28	0.4	17.6	6.1	128	1.61	2.7	<0.5	0.3	7	0.2	0.2	0.2	56	0.11	0.043	7

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	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56877+00N 7075+50E	Soil	34	0.33	98	0.213	<1	0.95	0.010	0.03	<0.1	0.03	1.4	<0.1	0.05	7	<0.5	<0.2
L56877+00N 7075+75E	Soil	32	0.28	114	0.219	<1	0.85	0.011	0.02	<0.1	0.06	1.4	<0.1	<0.05	7	<0.5	<0.2
L56877+00N 7076+00E	Soil	43	0.50	78	0.228	<1	1.54	0.010	0.03	<0.1	0.04	1.9	<0.1	<0.05	7	<0.5	<0.2
L56877+00N 7076+25E	Soil	32	0.33	79	0.231	<1	0.87	0.010	0.03	0.1	0.04	1.2	<0.1	<0.05	8	<0.5	<0.2
L56877+00N 7076+50E	Soil	26	0.16	80	0.210	<1	0.56	0.012	0.03	0.1	0.05	0.8	<0.1	<0.05	7	<0.5	<0.2
L56877+00N 7076+75E	Soil	41	0.42	68	0.278	<1	1.15	0.011	0.03	0.2	0.04	1.6	<0.1	0.06	7	<0.5	<0.2
L56877+00N 7077+00E	Soil	41	0.47	85	0.309	<1	1.14	0.011	0.03	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
L56877+00N 7077+25E	Soil	57	0.49	101	0.067	1	1.99	0.019	0.03	0.2	0.10	2.9	<0.1	0.15	5	1.7	<0.2
L56877+00N 7077+50E	Soil	45	0.42	162	0.106	<1	1.81	0.017	0.04	0.1	0.04	2.3	<0.1	<0.05	8	<0.5	<0.2
L56877+00N 7077+75E	Soil	35	0.39	130	0.122	<1	1.37	0.016	0.04	<0.1	0.06	1.9	<0.1	<0.05	8	<0.5	<0.2
L56877+00N 7078+00E	Soil	32	0.36	80	0.209	<1	1.00	0.012	0.03	<0.1	0.03	1.4	<0.1	<0.05	8	<0.5	<0.2
L56877+00N 7078+25E	Soil	35	0.35	104	0.231	<1	1.01	0.013	0.03	<0.1	0.04	1.4	<0.1	<0.05	7	<0.5	<0.2
L56877+00N 7078+50E	Soil	47	0.52	60	0.233	1	1.46	0.013	0.03	0.1	0.05	1.6	<0.1	<0.05	9	<0.5	<0.2
L56877+00N 7078+75E	Soil	46	0.42	74	0.212	<1	1.57	0.011	0.03	<0.1	0.05	1.8	<0.1	<0.05	8	<0.5	<0.2
L56877+00N 7079+00E	Soil	51	0.52	104	0.265	1	1.23	0.011	0.03	0.1	0.04	1.8	<0.1	<0.05	9	0.5	<0.2
L56877+00N 7079+25E	Soil	69	0.62	87	0.170	<1	2.13	0.012	0.04	0.1	0.09	5.4	<0.1	<0.05	7	0.7	<0.2
L56877+00N 7079+50E	Soil	51	0.68	81	0.191	<1	1.80	0.010	0.03	<0.1	0.07	2.3	<0.1	<0.05	7	0.6	<0.2
L56877+00N 7079+75E	Soil	25	0.24	78	0.146	<1	0.76	0.012	0.03	<0.1	0.07	0.8	<0.1	<0.05	7	<0.5	<0.2
L56877+00N BL7080+00E	Soil	43	0.39	46	0.194	<1	1.69	0.007	0.02	<0.1	0.05	1.9	<0.1	<0.05	8	<0.5	<0.2
L56877+00N 7080+25E	Soil	30	0.25	79	0.141	<1	1.42	0.009	0.02	<0.1	0.07	1.4	<0.1	<0.05	7	<0.5	<0.2
L56877+00N 7080+50E	Soil	32	0.27	127	0.115	<1	1.71	0.007	0.02	<0.1	0.08	1.6	<0.1	<0.05	6	0.9	<0.2
L56877+00N 7080+75E	Soil	32	0.31	132	0.144	1	1.45	0.011	0.02	<0.1	0.05	1.5	<0.1	0.05	7	0.9	<0.2
L56877+00N 7081+00E	Soil	53	0.59	145	0.142	<1	2.18	0.012	0.03	<0.1	0.06	2.9	<0.1	<0.05	8	0.8	<0.2
L56877+00N 7081+25E	Soil	35	0.38	96	0.127	<1	1.92	0.012	0.02	<0.1	0.08	1.7	<0.1	<0.05	7	<0.5	<0.2
L56877+00N 7081+50E	Soil	23	0.23	58	0.136	<1	1.40	0.013	0.02	<0.1	0.05	1.2	<0.1	<0.05	7	<0.5	<0.2
L56877+00N 7081+75E	Soil	65	0.92	86	0.278	<1	2.37	0.010	0.03	0.1	0.06	2.8	<0.1	<0.05	10	0.6	<0.2
L56877+00N 7082+00E	Soil	42	0.56	151	0.171	<1	1.46	0.012	0.03	<0.1	0.08	2.0	<0.1	<0.05	7	0.5	<0.2
L56877+00N 7082+25E	Soil	37	0.39	56	0.164	<1	1.92	0.012	0.02	<0.1	0.08	2.0	<0.1	<0.05	7	0.6	<0.2
L56877+00N 7082+50E	Soil	89	1.39	86	0.279	<1	2.64	0.011	0.03	0.1	0.04	4.0	<0.1	<0.05	7	0.7	<0.2
L56877+00N 7082+75E	Soil	41	0.39	86	0.128	<1	1.98	0.014	0.02	<0.1	0.07	1.7	<0.1	0.06	8	0.5	<0.2

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Project: CCS 2011
Report Date: September 20, 2011

CERTIFICATE OF ANALYSIS VAN11003589.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56877+00N 7083+00E	Soil		0.7	20.1	9.0	35	0.5	19.8	7.5	205	2.29	3.1	1.2	1.1	9	0.3	0.2	0.2	64	0.15	0.032	7
L56877+00N 7083+25E	Soil		0.7	24.7	6.6	44	0.3	30.9	15.4	425	3.23	4.1	3.1	1.0	9	0.3	0.3	0.1	73	0.18	0.043	7
L56877+00N 7083+50E	Soil		1.2	36.6	7.8	61	0.4	44.0	16.9	475	3.55	5.2	0.8	1.1	8	0.2	0.4	0.2	76	0.18	0.039	8
L56877+00N 7083+75E	Soil		1.0	18.1	9.6	31	0.2	20.4	6.8	224	3.15	6.0	1.5	0.8	9	0.2	0.4	0.2	79	0.15	0.043	5
L56877+00N 7084+00E	Soil		1.1	13.3	11.0	68	0.2	21.9	9.9	357	3.53	4.7	1.8	1.3	9	0.3	0.3	0.2	95	0.17	0.042	8
L56877+00N 7084+25E	Soil		1.1	24.6	10.8	50	0.2	23.1	10.3	376	2.48	5.2	<0.5	0.5	11	0.2	0.2	0.2	60	0.22	0.051	7
L56877+00N 7084+50E	Soil		0.9	18.9	8.9	42	0.2	21.7	7.6	296	2.58	3.8	<0.5	0.5	12	0.2	0.2	0.2	63	0.22	0.042	7
L56877+00N 7084+75E	Soil		0.4	41.0	6.2	51	0.2	61.4	18.3	313	3.10	8.5	29.4	2.0	11	0.2	0.3	<0.1	71	0.41	0.033	10
L56877+00N 7085+00E	Soil		0.6	41.7	5.8	42	0.1	64.6	20.9	347	2.95	12.3	5.7	1.7	11	0.2	0.3	<0.1	67	0.47	0.031	8
L56877+00N 7085+25E	Soil		0.7	15.7	7.3	39	0.2	26.6	8.6	221	3.19	4.5	3.2	1.0	8	0.1	0.2	0.2	92	0.17	0.039	5
L56877+00N 7085+50E	Soil		0.8	20.1	7.1	58	0.2	29.6	11.7	256	3.44	5.7	<0.5	1.9	10	0.2	0.2	0.1	88	0.27	0.037	9
L56877+00N 7085+75E	Soil		0.7	30.4	5.9	66	0.1	50.8	16.8	277	4.01	9.5	1.4	1.7	9	0.2	0.3	0.1	81	0.32	0.039	9
L56877+00N 7086+00E	Soil		0.6	50.0	8.5	67	0.4	59.3	16.4	741	2.98	17.8	1.5	1.5	17	0.3	0.3	0.2	67	0.64	0.048	12
L56877+00N 7086+25E	Soil		0.8	20.6	9.5	55	0.4	21.9	7.9	174	2.84	6.6	0.7	1.6	10	0.3	0.2	0.2	68	0.28	0.028	6
L56877+00N 7086+50E	Soil		0.7	12.3	9.2	32	<0.1	17.6	4.9	153	2.34	2.7	1.2	1.2	7	0.2	0.2	0.2	72	0.14	0.027	7
L56877+00N 7086+75E	Soil		1.0	15.2	9.7	33	0.2	15.3	5.5	214	2.37	2.3	39.4	1.2	6	0.2	0.2	0.2	73	0.10	0.030	6
L56877+00N 7087+00E	Soil		1.1	16.0	9.3	29	0.2	19.4	5.9	152	2.85	5.7	48.4	1.3	7	0.3	0.2	0.2	66	0.13	0.034	6
L56877+00N 7087+25E	Soil		1.1	16.8	12.1	48	0.1	26.2	7.5	182	3.91	6.2	3.1	2.2	9	0.4	0.3	0.2	112	0.16	0.036	7
L56877+00N 7087+50E	Soil		0.9	29.8	7.2	45	<0.1	36.2	10.0	234	3.41	7.3	4.4	1.8	5	0.4	0.2	0.2	65	0.14	0.049	6
L56877+00N 7087+75E	Soil		0.8	39.5	9.1	57	<0.1	56.5	15.2	276	3.28	11.0	6.8	2.0	6	0.3	0.4	0.2	71	0.19	0.027	8
L56877+00N 7088+00E	Soil		1.2	34.5	12.5	69	0.2	42.9	12.7	275	3.74	8.6	3.5	2.4	6	0.3	0.3	0.2	73	0.13	0.032	13
L56877+00N 7088+25E	Soil		0.8	21.4	11.6	43	<0.1	28.1	8.6	252	2.51	5.9	1.4	1.3	8	0.1	0.3	0.2	64	0.15	0.037	6
L56877+00N 7088+50E	Soil		1.0	12.1	12.7	42	0.2	14.1	4.8	157	2.47	4.8	7.3	2.0	8	0.3	0.3	0.3	55	0.12	0.028	10
L56877+00N 7088+75E	Soil		0.9	20.7	16.4	46	0.2	20.7	5.3	141	2.57	16.7	1.9	1.0	11	0.1	0.3	0.3	70	0.42	0.028	6
L56878+00N 7070+00E	Soil		1.0	14.3	10.4	24	0.2	7.0	2.5	67	1.36	2.8	5.1	0.1	8	0.4	0.2	0.3	62	0.15	0.047	3
L56878+00N 7070+25E	Soil		1.3	24.8	10.0	42	0.2	13.3	7.4	267	2.14	1.7	3.1	0.2	13	0.3	0.2	0.2	63	0.33	0.040	5
L56878+00N 7070+50E	Soil		1.0	17.2	9.3	31	0.1	11.0	4.9	209	1.93	1.2	7.2	0.2	13	<0.1	0.1	0.3	65	0.25	0.038	4
L56878+00N 7070+75E	Soil		0.8	15.4	10.6	38	0.1	8.5	3.2	130	1.87	1.5	<0.5	0.1	10	0.2	0.2	0.3	69	0.22	0.046	3
L56878+00N 7071+00E	Soil		0.5	12.7	8.8	23	0.2	6.9	2.7	83	1.63	1.4	3.1	0.2	6	0.1	0.2	0.2	65	0.11	0.033	4
L56878+00N 7071+25E	Soil		0.5	7.9	10.2	21	0.1	6.7	3.0	77	1.64	1.2	2.8	0.5	6	<0.1	0.2	0.2	71	0.10	0.031	3

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56877+00N 7083+00E	Soil	41	0.52	91	0.200	<1	1.43	0.011	0.03	<0.1	0.08	2.0	<0.1	<0.05	7	<0.5	<0.2
L56877+00N 7083+25E	Soil	64	0.88	75	0.233	1	1.91	0.011	0.03	<0.1	0.06	2.5	<0.1	<0.05	7	<0.5	<0.2
L56877+00N 7083+50E	Soil	85	0.97	113	0.190	1	2.33	0.012	0.04	<0.1	0.06	3.2	<0.1	<0.05	8	0.6	<0.2
L56877+00N 7083+75E	Soil	52	0.43	133	0.185	<1	1.27	0.012	0.02	0.1	0.07	2.0	<0.1	<0.05	9	<0.5	<0.2
L56877+00N 7084+00E	Soil	54	0.59	124	0.239	<1	1.43	0.009	0.03	<0.1	0.05	1.9	<0.1	0.06	9	0.6	<0.2
L56877+00N 7084+25E	Soil	45	0.51	140	0.128	1	1.39	0.012	0.04	<0.1	0.07	1.9	<0.1	<0.05	9	<0.5	<0.2
L56877+00N 7084+50E	Soil	48	0.41	155	0.147	<1	1.38	0.013	0.03	<0.1	0.06	1.7	<0.1	0.05	9	<0.5	<0.2
L56877+00N 7084+75E	Soil	99	1.21	126	0.215	1	2.40	0.010	0.03	<0.1	0.05	4.3	<0.1	<0.05	6	<0.5	<0.2
L56877+00N 7085+00E	Soil	93	1.23	146	0.183	<1	1.90	0.009	0.03	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
L56877+00N 7085+25E	Soil	67	0.57	190	0.255	<1	1.31	0.011	0.02	0.1	0.06	2.0	<0.1	<0.05	8	<0.5	<0.2
L56877+00N 7085+50E	Soil	68	0.70	114	0.273	<1	2.43	0.011	0.03	0.1	0.07	3.6	<0.1	<0.05	8	<0.5	<0.2
L56877+00N 7085+75E	Soil	94	1.08	170	0.233	1	2.40	0.008	0.03	<0.1	0.06	3.5	<0.1	<0.05	8	<0.5	<0.2
L56877+00N 7086+00E	Soil	93	0.99	190	0.157	1	2.97	0.017	0.05	<0.1	0.06	5.9	<0.1	<0.05	7	0.6	<0.2
L56877+00N 7086+25E	Soil	46	0.46	115	0.202	<1	1.67	0.011	0.03	0.1	0.06	2.3	<0.1	<0.05	9	<0.5	<0.2
L56877+00N 7086+50E	Soil	44	0.34	106	0.199	<1	1.02	0.010	0.02	<0.1	0.05	1.6	<0.1	<0.05	8	<0.5	<0.2
L56877+00N 7086+75E	Soil	47	0.27	67	0.203	<1	1.42	0.011	0.03	<0.1	0.05	1.8	<0.1	<0.05	9	0.6	<0.2
L56877+00N 7087+00E	Soil	46	0.37	65	0.205	<1	1.65	0.012	0.03	0.2	0.06	1.9	<0.1	<0.05	11	<0.5	<0.2
L56877+00N 7087+25E	Soil	73	0.55	76	0.304	1	1.56	0.009	0.03	0.1	0.04	2.3	<0.1	<0.05	12	0.6	<0.2
L56877+00N 7087+50E	Soil	77	0.68	59	0.174	1	2.98	0.006	0.03	0.1	0.06	3.1	<0.1	<0.05	7	0.8	<0.2
L56877+00N 7087+75E	Soil	91	1.05	82	0.197	1	2.25	0.007	0.03	0.1	0.05	3.5	<0.1	<0.05	5	0.8	<0.2
L56877+00N 7088+00E	Soil	76	0.92	79	0.199	1	2.06	0.006	0.03	<0.1	0.04	3.0	<0.1	<0.05	7	<0.5	<0.2
L56877+00N 7088+25E	Soil	58	0.56	75	0.197	1	1.36	0.007	0.03	0.1	0.04	1.9	<0.1	<0.05	6	0.7	<0.2
L56877+00N 7088+50E	Soil	31	0.29	130	0.112	1	0.98	0.008	0.03	0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
L56877+00N 7088+75E	Soil	42	0.36	109	0.129	1	1.21	0.010	0.03	0.1	0.04	2.1	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7070+00E	Soil	23	0.12	102	0.168	<1	0.63	0.008	0.03	<0.1	0.06	0.7	<0.1	0.05	6	0.7	<0.2
L56878+00N 7070+25E	Soil	27	0.27	180	0.180	1	0.94	0.010	0.03	0.1	0.05	1.2	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7070+50E	Soil	26	0.21	163	0.210	<1	0.77	0.010	0.02	<0.1	0.05	1.1	<0.1	<0.05	6	<0.5	<0.2
L56878+00N 7070+75E	Soil	26	0.15	132	0.192	<1	0.65	0.008	0.04	<0.1	0.05	0.8	<0.1	<0.05	6	<0.5	<0.2
L56878+00N 7071+00E	Soil	26	0.17	42	0.224	<1	0.93	0.009	0.02	<0.1	0.05	0.8	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7071+25E	Soil	22	0.14	60	0.271	<1	0.62	0.009	0.02	<0.1	0.05	0.9	<0.1	<0.05	7	<0.5	<0.2

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Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56878+00N 7071+50E	Soil	0.5	12.3	9.0	51	0.1	11.4	4.9	242	2.53	1.7	2.0	0.6	12	<0.1	0.2	0.2	92	0.21	0.045	3
L56878+00N 7071+75E	Soil	1.1	18.1	16.8	42	0.1	13.4	6.3	346	2.26	3.2	3.4	0.4	14	0.4	0.3	0.2	76	0.36	0.056	3
L56878+00N 7072+00E	Soil	0.8	13.6	10.1	30	0.1	11.7	4.5	138	2.07	2.0	2.1	0.6	7	<0.1	0.2	0.2	86	0.12	0.038	4
L56878+00N 7072+25E	Soil	1.0	12.3	8.9	34	0.1	11.2	5.1	202	2.23	3.2	1.5	0.7	8	0.3	0.2	0.2	71	0.18	0.032	4
L56878+00N 7072+50E	Soil	0.9	44.4	8.7	49	0.3	19.8	14.1	1031	2.27	26.0	1.0	0.2	17	0.5	0.3	0.2	64	0.73	0.086	11
L56878+00N 7072+75E	Soil	0.8	15.2	9.4	28	0.1	7.6	2.8	81	1.70	1.8	0.7	0.1	12	0.4	0.1	0.2	55	0.21	0.045	3
L56878+00N 7073+00E	Soil	0.8	21.6	5.0	43	<0.1	23.9	11.8	286	3.27	5.5	1.8	1.0	9	0.3	0.2	<0.1	98	0.32	0.043	4
L56878+00N 7073+25E	Soil	0.8	15.7	9.9	32	<0.1	9.4	6.6	362	2.32	1.6	1.2	0.4	7	0.2	0.2	0.2	91	0.15	0.032	4
L56878+00N 7073+50E	Soil	0.8	14.2	9.6	30	0.2	11.4	4.5	201	2.27	2.0	1.9	0.6	7	0.2	0.2	0.2	75	0.11	0.036	5
L56878+00N 7073+75E	Soil	0.8	12.3	12.6	26	0.2	7.2	3.0	193	1.91	1.7	1.1	0.3	6	0.2	0.2	0.3	65	0.09	0.040	4
L56878+00N 7074+00E	Soil	0.6	11.0	10.5	39	<0.1	14.3	5.8	298	2.48	3.7	0.9	0.8	11	0.1	0.3	0.2	79	0.22	0.041	4
L56878+00N 7074+25E	Soil	0.5	9.8	8.9	28	<0.1	6.5	2.8	281	1.21	0.9	1.3	0.1	13	0.1	0.1	0.2	46	0.26	0.031	3
L56878+00N 7074+50E	Soil	0.9	14.0	9.6	41	<0.1	12.9	5.4	248	2.60	2.6	3.5	0.8	6	0.1	0.2	0.2	75	0.11	0.052	5
L56878+00N 7074+75E	Soil	0.7	13.7	8.0	42	0.1	17.3	8.0	452	2.83	3.8	2.2	0.7	11	0.1	0.2	0.2	80	0.20	0.044	5
L56878+00N 7075+00E	Soil	0.6	12.8	12.4	40	<0.1	17.6	6.3	527	2.30	4.1	6.4	0.6	14	0.2	0.2	0.2	70	0.26	0.042	5
L56878+00N 7075+25E	Soil	0.7	13.7	12.5	48	<0.1	15.0	6.2	562	2.63	3.1	0.7	0.6	9	0.1	0.3	0.2	74	0.18	0.053	5
L56878+00N 7075+50E	Soil	0.8	11.2	12.4	39	<0.1	11.9	4.6	339	2.27	2.8	4.2	0.5	11	<0.1	0.2	0.2	66	0.21	0.053	5
L56878+00N 7075+75E	Soil	0.7	17.1	12.2	46	<0.1	22.7	8.7	372	3.16	4.8	1.6	1.0	10	0.2	0.4	0.2	89	0.19	0.051	5
L56878+00N 7076+00E	Soil	0.8	15.9	12.2	47	<0.1	21.6	9.0	681	2.89	4.5	1.1	0.8	12	0.3	0.4	0.2	83	0.34	0.052	4
L56878+00N 7076+25E	Soil	0.9	23.5	14.2	50	<0.1	29.4	18.5	991	2.93	3.7	0.8	0.6	11	0.2	0.3	0.2	78	0.38	0.048	5
L56878+00N 7076+50E	Soil	1.0	20.9	11.7	42	0.1	21.9	11.5	773	2.91	3.4	1.6	0.5	11	0.3	0.3	0.2	78	0.38	0.054	5
L56878+00N 7076+75E	Soil	0.8	22.3	10.2	43	<0.1	25.2	9.1	307	3.24	4.3	<0.5	1.0	7	0.2	0.4	0.2	99	0.18	0.037	4
L56878+00N 7077+00E	Soil	1.1	15.0	9.9	46	0.1	43.9	13.6	380	3.48	2.5	28.3	1.1	8	0.3	0.2	0.2	68	0.21	0.037	3
L56878+00N 7077+25E	Soil	1.1	63.0	32.2	15	0.6	21.4	52.2	3261	0.58	3.3	0.9	<0.1	24	1.3	2.1	0.2	12	0.53	0.167	18
L56878+00N 7077+50E	Soil	0.8	21.9	10.0	33	0.5	17.5	13.7	338	1.94	2.5	<0.5	0.3	8	0.3	0.2	0.2	57	0.12	0.047	7
L56878+00N 7077+75E	Soil	0.8	18.1	8.6	52	0.2	23.3	9.8	392	3.35	4.9	1.1	1.1	8	0.1	0.2	0.2	95	0.18	0.047	5
L56878+00N 7078+00E	Soil	0.6	12.2	11.4	20	0.2	14.6	4.5	99	1.76	2.4	0.6	0.5	7	0.2	0.2	0.2	68	0.11	0.039	5
L56878+00N 7078+25E	Soil	0.9	15.6	8.8	31	<0.1	25.1	7.4	254	2.51	4.0	1.6	1.6	6	0.1	0.3	0.2	79	0.13	0.030	6
L56878+00N 7078+50E	Soil	0.8	16.9	9.9	22	0.3	11.8	3.8	116	2.44	3.2	<0.5	0.4	6	0.4	0.2	0.2	59	0.09	0.046	5
L56878+00N 7078+75E	Soil	0.6	8.0	19.7	22	<0.1	8.4	2.6	90	1.30	2.9	<0.5	0.3	6	0.2	0.3	0.3	54	0.10	0.037	5

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Project: CCS 2011
Report Date: September 20, 2011

CERTIFICATE OF ANALYSIS VAN11003589.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56878+00N 7071+50E	Soil		31	0.28	237	0.346	<1	0.75	0.011	0.02	<0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7071+75E	Soil		33	0.32	113	0.284	1	0.73	0.011	0.05	<0.1	0.07	1.2	<0.1	0.07	6	0.7	<0.2
L56878+00N 7072+00E	Soil		32	0.30	76	0.335	<1	0.82	0.009	0.03	<0.1	0.04	1.3	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7072+25E	Soil		31	0.34	64	0.287	<1	1.06	0.010	0.02	0.1	0.07	1.3	<0.1	<0.05	7	0.6	<0.2
L56878+00N 7072+50E	Soil		41	0.43	90	0.091	1	2.10	0.017	0.04	<0.1	0.11	3.1	<0.1	0.08	5	1.3	<0.2
L56878+00N 7072+75E	Soil		21	0.13	151	0.145	<1	0.71	0.010	0.03	<0.1	0.06	0.7	<0.1	<0.05	7	0.6	<0.2
L56878+00N 7073+00E	Soil		48	0.75	51	0.294	<1	2.18	0.010	0.02	0.1	0.06	2.8	<0.1	<0.05	6	<0.5	<0.2
L56878+00N 7073+25E	Soil		22	0.21	109	0.215	<1	0.75	0.010	0.03	<0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7073+50E	Soil		30	0.28	79	0.229	<1	0.94	0.010	0.03	<0.1	0.03	1.2	<0.1	<0.05	8	<0.5	<0.2
L56878+00N 7073+75E	Soil		20	0.16	45	0.170	1	0.68	0.009	0.03	<0.1	0.05	0.8	<0.1	<0.05	8	<0.5	<0.2
L56878+00N 7074+00E	Soil		35	0.37	93	0.255	<1	0.85	0.011	0.03	0.1	0.03	1.4	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7074+25E	Soil		15	0.11	135	0.113	<1	0.43	0.012	0.03	<0.1	0.04	0.6	<0.1	<0.05	6	<0.5	<0.2
L56878+00N 7074+50E	Soil		33	0.33	94	0.234	<1	1.01	0.008	0.03	0.1	0.05	1.5	<0.1	<0.05	8	<0.5	<0.2
L56878+00N 7074+75E	Soil		40	0.45	86	0.239	<1	1.19	0.010	0.03	<0.1	0.04	1.7	<0.1	<0.05	7	0.6	<0.2
L56878+00N 7075+00E	Soil		35	0.41	121	0.230	<1	0.96	0.008	0.04	<0.1	0.04	1.4	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7075+25E	Soil		32	0.35	98	0.204	1	1.03	0.009	0.04	0.1	0.07	1.4	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7075+50E	Soil		28	0.31	102	0.183	<1	0.88	0.009	0.03	0.1	0.08	1.2	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7075+75E	Soil		47	0.58	108	0.275	<1	1.32	0.010	0.03	0.1	0.07	1.9	<0.1	<0.05	7	0.6	<0.2
L56878+00N 7076+00E	Soil		44	0.54	142	0.259	1	1.11	0.011	0.05	<0.1	0.07	1.8	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7076+25E	Soil		44	0.54	258	0.229	1	1.32	0.011	0.05	0.1	0.07	1.8	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7076+50E	Soil		39	0.45	106	0.216	<1	1.17	0.012	0.04	0.1	0.06	1.6	<0.1	0.07	8	<0.5	<0.2
L56878+00N 7076+75E	Soil		49	0.63	84	0.319	<1	1.23	0.010	0.03	0.1	0.05	1.9	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7077+00E	Soil		68	0.83	83	0.205	<1	1.41	0.013	0.03	0.1	0.06	1.6	<0.1	<0.05	8	0.5	<0.2
L56878+00N 7077+25E	Soil		18	0.13	132	0.010	3	2.09	0.018	0.08	0.1	0.39	2.0	0.2	0.13	<1	2.3	<0.2
L56878+00N 7077+50E	Soil		29	0.33	84	0.113	2	1.42	0.012	0.03	0.1	0.06	1.2	<0.1	0.07	7	<0.5	<0.2
L56878+00N 7077+75E	Soil		47	0.53	110	0.211	2	1.29	0.009	0.03	<0.1	0.05	1.7	<0.1	<0.05	8	0.6	<0.2
L56878+00N 7078+00E	Soil		37	0.25	85	0.160	1	0.75	0.009	0.03	<0.1	0.04	1.1	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7078+25E	Soil		51	0.58	89	0.212	1	1.22	0.010	0.03	<0.1	0.07	1.5	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7078+50E	Soil		28	0.19	61	0.129	2	1.16	0.014	0.03	<0.1	0.08	1.0	<0.1	0.05	8	<0.5	<0.2
L56878+00N 7078+75E	Soil		21	0.15	70	0.141	2	0.62	0.008	0.03	<0.1	0.06	0.7	<0.1	0.06	8	<0.5	<0.2

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CERTIFICATE OF ANALYSIS VAN11003589.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56878+00N 7079+00E	Soil		0.8	11.6	8.9	28	0.1	14.8	4.8	149	2.22	3.6	0.9	0.7	6	0.2	0.2	0.2	65	0.11	0.041	5
L56878+00N 7079+25E	Soil		0.9	45.6	17.0	65	0.7	47.2	13.9	574	2.61	5.9	0.9	0.2	12	0.4	0.3	0.3	74	0.23	0.074	9
L56878+00N 7079+50E	Soil		1.0	54.7	11.8	39	1.6	32.8	14.2	368	1.76	4.0	1.0	<0.1	12	0.5	0.2	0.2	59	0.24	0.120	11
L56878+00N 7079+75E	Soil		1.6	47.4	10.2	32	1.2	17.5	8.3	307	1.45	3.2	<0.5	<0.1	16	0.4	0.2	0.2	44	0.33	0.145	9
L56878+00N 7080+25E	Soil		1.0	24.9	12.2	34	0.5	23.7	8.1	171	1.62	3.5	3.8	0.4	9	0.2	0.2	0.2	67	0.18	0.037	8
L56878+00N 7080+50E	Soil		1.4	16.1	11.1	30	0.3	19.7	5.7	102	1.46	2.8	2.1	0.5	8	0.1	0.2	0.2	67	0.18	0.044	6
L56878+00N 7080+75E	Soil		1.2	44.3	9.5	56	0.3	41.8	21.5	604	3.18	7.3	1.2	0.7	9	0.3	0.2	0.2	76	0.27	0.055	9
L56878+00N 7081+00E	Soil		1.3	28.6	12.0	37	0.5	20.2	10.7	349	1.88	3.7	1.1	0.3	9	0.4	0.2	0.2	56	0.20	0.064	6
L56878+00N 7081+25E	Soil		0.4	24.8	6.7	8	1.4	6.1	3.4	38	0.51	1.1	<0.5	<0.1	6	<0.1	0.2	<0.1	20	0.11	0.111	7
L56878+00N 7081+50E	Soil		0.6	14.2	8.1	9	1.4	5.4	4.6	67	0.35	1.1	<0.5	<0.1	8	0.2	0.2	<0.1	13	0.15	0.240	6
L56878+00N 7081+75E	Soil		0.7	26.4	6.4	10	1.3	6.3	9.5	98	0.48	1.2	<0.5	<0.1	5	0.2	0.2	0.1	19	0.08	0.175	7
L56878+00N 7082+00E	Soil		1.6	37.3	7.0	33	0.8	22.3	11.1	509	1.48	2.8	<0.5	<0.1	11	0.4	0.2	0.2	48	0.17	0.135	10
L56878+00N 7082+25E	Soil		1.4	29.4	7.3	53	0.3	43.3	29.1	1097	2.83	4.6	3.4	0.8	10	0.3	0.2	0.1	81	0.25	0.043	9
L56878+00N 7082+50E	Soil		1.7	40.0	16.3	46	0.5	27.1	17.6	723	1.98	7.6	16.2	0.2	15	0.8	0.2	0.2	57	0.29	0.073	12
L56878+00N 7082+75E	Soil		0.8	14.2	10.7	21	0.2	8.2	3.1	71	1.66	3.0	1.3	0.7	8	0.3	0.1	0.2	46	0.19	0.038	5
L56878+00N 7083+00E	Soil		0.5	8.1	9.1	12	0.2	6.3	2.1	43	0.97	1.1	0.9	0.3	5	0.2	0.1	0.2	41	0.08	0.026	5
L56878+00N 7083+25E	Soil		0.6	11.3	9.4	17	0.2	17.6	4.3	67	1.22	1.9	<0.5	0.3	6	0.1	0.2	0.2	47	0.11	0.036	6
L56878+00N 7083+50E	Soil		0.8	8.8	9.0	17	0.3	7.7	2.5	82	1.66	1.6	0.9	0.6	4	0.2	0.2	0.2	48	0.06	0.028	4
L56878+00N 7083+75E	Soil		0.6	20.7	7.0	42	0.1	40.9	11.2	220	3.11	8.2	1.5	1.7	7	<0.1	0.3	0.1	87	0.19	0.034	8
L56878+00N 7084+00E	Soil		1.3	52.5	9.5	45	0.4	23.7	10.4	480	1.93	8.9	1.2	0.3	14	0.3	0.2	0.2	53	0.50	0.075	11
L56878+00N 7084+25E	Soil		0.9	126.8	9.4	63	1.0	44.9	10.0	401	2.34	18.0	1.8	0.4	13	0.6	0.2	0.2	59	0.42	0.121	21
L56878+00N 7084+50E	Soil		0.5	6.6	7.4	11	0.2	4.8	1.6	31	1.06	1.2	1.1	0.6	4	0.2	<0.1	0.2	35	0.04	0.020	4
L56878+00N 7084+75E	Soil		1.0	11.1	8.1	25	0.3	11.7	4.0	94	2.68	3.7	0.7	1.1	5	0.3	0.2	0.2	65	0.07	0.047	5
L56878+00N 7085+00E	Soil		1.3	21.9	11.3	57	0.3	18.5	10.8	393	2.70	24.1	1.2	0.7	6	0.3	0.2	0.2	52	0.11	0.050	6
L56878+00N 7085+25E	Soil		0.8	14.3	8.5	40	0.2	14.7	6.0	191	2.05	3.7	<0.5	0.2	13	0.4	0.2	0.2	52	0.36	0.055	4
L56878+00N 7085+50E	Soil		0.9	7.8	10.1	18	0.1	9.0	2.6	58	1.68	2.0	1.9	0.5	5	0.3	0.2	0.2	62	0.10	0.030	4
L56878+00N 7085+75E	Soil		0.7	37.6	12.9	90	0.3	42.2	13.7	437	3.06	30.6	3.8	1.5	12	0.3	0.3	0.3	70	0.48	0.045	6
L56878+00N 7086+00E	Soil		1.0	14.3	10.9	38	0.1	13.4	7.3	277	2.22	6.7	1.1	1.2	5	0.2	0.2	0.2	56	0.10	0.026	6
L56878+00N 7086+25E	Soil		0.8	13.3	9.8	33	0.2	11.2	4.9	252	2.02	5.1	1.0	1.0	5	0.2	0.2	0.2	65	0.11	0.039	6
L56878+00N 7086+50E	Soil		1.0	20.5	11.6	56	0.2	15.9	6.4	356	2.50	12.8	0.6	0.3	10	0.4	0.2	0.2	54	0.40	0.056	4

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www.acmelab.com

Client: **PAC Geological Consulting Inc.**
3707 W. 34th Ave.
Vancouver BC V6N 2C9 Canada

Project: CCS 2011
Report Date: September 20, 2011

CERTIFICATE OF ANALYSIS VAN11003589.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56878+00N 7079+00E	Soil	33	0.31	93	0.166	1	1.01	0.010	0.03	0.1	0.11	1.2	<0.1	0.08	7	<0.5	<0.2
L56878+00N 7079+25E	Soil	76	0.70	216	0.071	2	2.16	0.013	0.07	<0.1	0.08	2.2	0.1	0.08	9	<0.5	<0.2
L56878+00N 7079+50E	Soil	56	0.42	167	0.033	1	2.34	0.013	0.05	<0.1	0.14	1.6	<0.1	0.14	6	0.6	<0.2
L56878+00N 7079+75E	Soil	34	0.20	171	0.018	2	1.78	0.016	0.05	<0.1	0.16	0.7	<0.1	0.17	6	0.9	<0.2
L56878+00N 7080+25E	Soil	46	0.50	128	0.145	2	1.51	0.010	0.04	<0.1	0.06	2.0	<0.1	0.07	8	<0.5	<0.2
L56878+00N 7080+50E	Soil	42	0.41	108	0.191	<1	1.31	0.010	0.03	<0.1	0.09	1.6	<0.1	0.08	9	<0.5	<0.2
L56878+00N 7080+75E	Soil	69	0.77	139	0.140	2	2.69	0.009	0.06	0.1	0.10	3.1	<0.1	0.09	8	0.9	<0.2
L56878+00N 7081+00E	Soil	40	0.42	115	0.121	2	1.53	0.008	0.03	<0.1	0.11	1.4	<0.1	0.11	7	0.6	<0.2
L56878+00N 7081+25E	Soil	24	0.08	39	0.015	2	1.58	0.007	0.02	<0.1	0.21	0.2	<0.1	0.25	3	1.5	<0.2
L56878+00N 7081+50E	Soil	25	0.09	53	0.003	1	0.92	0.005	0.06	<0.1	0.17	0.3	<0.1	0.23	2	0.9	<0.2
L56878+00N 7081+75E	Soil	28	0.09	41	0.010	1	1.36	0.008	0.04	<0.1	0.17	0.4	<0.1	0.22	3	1.4	<0.2
L56878+00N 7082+00E	Soil	47	0.34	120	0.047	2	1.63	0.009	0.05	0.1	0.12	1.6	<0.1	0.12	6	1.5	<0.2
L56878+00N 7082+25E	Soil	79	1.02	162	0.148	1	2.02	0.009	0.04	<0.1	0.05	3.1	<0.1	0.05	7	<0.5	<0.2
L56878+00N 7082+50E	Soil	40	0.38	236	0.064	2	1.65	0.012	0.05	<0.1	0.08	1.9	<0.1	0.11	8	0.5	<0.2
L56878+00N 7082+75E	Soil	21	0.13	106	0.098	<1	0.77	0.011	0.04	0.1	0.04	1.1	<0.1	0.05	7	<0.5	<0.2
L56878+00N 7083+00E	Soil	21	0.10	69	0.118	1	0.74	0.010	0.02	<0.1	0.02	0.7	<0.1	<0.05	6	<0.5	<0.2
L56878+00N 7083+25E	Soil	43	0.35	74	0.093	<1	0.97	0.007	0.03	<0.1	0.04	0.9	<0.1	<0.05	6	<0.5	<0.2
L56878+00N 7083+50E	Soil	23	0.13	61	0.111	<1	0.73	0.010	0.02	<0.1	0.04	0.7	<0.1	<0.05	8	<0.5	<0.2
L56878+00N 7083+75E	Soil	83	0.87	109	0.177	<1	1.40	0.007	0.03	<0.1	0.05	2.2	<0.1	<0.05	5	<0.5	<0.2
L56878+00N 7084+00E	Soil	44	0.39	140	0.066	<1	1.86	0.012	0.03	0.1	0.04	2.2	<0.1	0.08	8	0.6	<0.2
L56878+00N 7084+25E	Soil	79	0.46	174	0.056	1	3.43	0.013	0.04	0.1	0.08	4.6	<0.1	0.12	8	1.5	<0.2
L56878+00N 7084+50E	Soil	16	0.07	46	0.098	<1	0.57	0.010	0.02	<0.1	0.04	0.6	<0.1	<0.05	6	<0.5	<0.2
L56878+00N 7084+75E	Soil	42	0.21	58	0.157	<1	1.76	0.011	0.02	0.1	0.09	1.6	<0.1	0.07	9	0.6	<0.2
L56878+00N 7085+00E	Soil	33	0.21	120	0.095	2	1.77	0.013	0.03	0.1	0.06	2.0	<0.1	0.07	11	<0.5	<0.2
L56878+00N 7085+25E	Soil	36	0.20	268	0.081	1	0.85	0.010	0.03	<0.1	0.08	1.2	<0.1	0.09	6	<0.5	<0.2
L56878+00N 7085+50E	Soil	30	0.16	93	0.135	<1	0.69	0.009	0.02	<0.1	0.05	0.9	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7085+75E	Soil	74	0.54	153	0.119	2	2.88	0.013	0.05	0.1	0.08	4.1	<0.1	<0.05	10	<0.5	<0.2
L56878+00N 7086+00E	Soil	32	0.23	66	0.114	<1	1.32	0.012	0.03	0.1	0.04	1.5	<0.1	<0.05	9	<0.5	<0.2
L56878+00N 7086+25E	Soil	32	0.22	89	0.098	<1	0.94	0.008	0.03	0.1	0.05	1.6	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7086+50E	Soil	29	0.21	114	0.071	<1	1.23	0.011	0.04	<0.1	0.08	1.4	<0.1	<0.05	8	<0.5	<0.2

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		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56878+00N 7087+00E	Soil		0.7	13.1	9.6	25	0.2	6.7	2.7	96	1.02	1.7	<0.5	0.2	7	0.2	0.2	0.3	32	0.12	0.030	4
L56878+00N 7087+25E	Soil		0.7	12.3	11.1	44	0.1	9.8	4.8	455	1.89	2.4	1.0	0.2	10	0.2	0.2	0.3	51	0.19	0.036	5
L56878+00N 7087+50E	Soil		0.7	16.4	12.3	42	0.2	20.7	7.9	344	2.20	4.8	21.7	0.9	9	<0.1	0.2	0.3	66	0.16	0.047	7
L56878+00N 7087+75E	Soil		0.7	16.1	10.8	36	<0.1	17.8	6.1	146	2.25	3.6	3.0	2.0	6	0.1	0.2	0.2	66	0.09	0.022	7
L56878+00N 7088+00E	Soil		0.6	19.0	13.1	47	0.1	24.6	7.8	373	2.79	5.7	2.4	1.6	7	0.2	0.3	0.2	70	0.16	0.042	7
L56879+00N 7070+00E	Soil		0.6	13.5	8.3	31	0.2	10.1	4.8	218	2.53	1.8	3.2	0.7	8	<0.1	0.2	0.2	83	0.14	0.036	4
L56879+00N 7070+25E	Soil		0.7	10.9	12.6	22	0.2	8.4	3.5	130	1.59	1.3	1.6	0.2	8	0.1	0.2	0.3	61	0.12	0.047	4
L56879+00N 7070+50E	Soil		0.6	16.4	5.9	33	0.2	16.4	7.9	299	2.91	3.5	5.7	0.8	7	0.2	0.2	0.1	85	0.20	0.032	4
L56879+00N 7070+75E	Soil		0.8	10.9	8.6	17	0.2	8.6	3.6	84	1.24	<0.5	0.9	0.3	9	0.3	0.1	0.2	55	0.16	0.030	6
L56879+00N 7071+00E	Soil		1.0	14.4	16.4	33	0.1	13.6	6.3	316	1.99	3.4	1.5	0.7	17	0.1	0.3	0.2	76	0.40	0.051	4
L56879+00N 7071+25E	Soil		0.6	12.4	10.0	24	0.1	8.5	3.3	110	2.26	1.6	1.0	0.3	7	0.2	0.2	0.2	65	0.10	0.041	4
L56879+00N 7071+50E	Soil		1.0	15.1	8.0	32	0.2	13.0	5.2	162	2.95	2.5	1.1	1.1	7	0.2	0.2	0.2	90	0.11	0.036	5
L56879+00N 7071+75E	Soil		1.3	32.9	6.6	18	0.6	10.0	11.7	717	1.23	1.4	<0.5	0.1	34	0.8	0.4	0.2	35	1.71	0.078	9
L56879+00N 7072+25E	Soil		1.1	11.5	10.6	37	<0.1	8.5	4.5	151	2.00	2.2	<0.5	0.7	11	0.2	0.2	0.2	82	0.24	0.041	4
L56879+00N 7072+50E	Soil		1.0	15.0	9.5	52	<0.1	13.1	8.9	722	2.80	2.3	1.8	0.6	16	0.1	0.2	0.2	73	0.44	0.051	5
L56879+00N 7072+75E	Soil		0.9	16.9	8.3	43	0.1	20.0	7.7	252	3.03	4.3	0.5	1.0	10	0.3	0.3	0.2	87	0.22	0.043	5
L56879+00N 7073+00E	Soil		0.9	26.5	21.4	74	<0.1	20.1	13.6	1350	2.90	21.4	<0.5	0.5	19	0.4	0.3	0.2	85	0.81	0.086	7
L56879+00N 7073+25E	Soil		0.9	16.7	8.1	47	0.2	21.7	8.9	267	3.33	4.9	1.9	1.1	11	0.2	0.3	0.2	89	0.25	0.047	6
L56879+00N 7073+50E	Soil		0.9	18.3	9.4	52	0.1	17.4	17.3	851	2.53	2.1	1.8	0.4	11	0.2	0.1	0.2	73	0.30	0.042	6
L56879+00N 7073+75E	Soil		0.9	19.9	9.7	44	0.1	19.9	8.2	265	3.26	4.4	2.0	1.0	10	0.3	0.3	0.2	86	0.26	0.047	7
L56879+00N 7074+00E	Soil		1.0	15.8	9.6	44	0.1	14.3	7.8	590	2.49	2.0	<0.5	0.6	9	0.2	0.2	0.2	71	0.22	0.037	6
L56879+00N 7074+25E	Soil		0.7	14.2	8.9	36	0.1	10.9	4.1	158	2.10	1.6	1.3	0.5	9	<0.1	0.2	0.2	63	0.20	0.037	5
L56879+00N 7074+50E	Soil		0.6	16.3	9.2	38	<0.1	11.7	4.8	201	2.53	1.7	1.8	0.8	9	0.1	0.2	0.2	76	0.17	0.036	5
L56879+00N 7074+75E	Soil		0.7	16.7	11.3	28	<0.1	11.2	4.2	150	2.29	2.3	1.2	0.8	6	0.1	0.2	0.2	67	0.11	0.043	5
L56879+00N 7075+00E	Soil		0.7	13.4	9.4	31	<0.1	11.6	4.3	224	2.43	1.4	1.1	0.3	8	<0.1	0.2	0.2	77	0.16	0.037	5
L56879+00N 7075+25E	Soil		0.8	21.8	8.7	48	0.2	14.7	6.5	384	2.81	1.7	<0.5	0.5	11	0.3	0.2	0.2	79	0.17	0.057	6
L56879+00N 7075+50E	Soil		1.0	20.8	10.5	38	0.1	14.9	6.5	296	2.30	3.5	<0.5	0.4	10	0.2	0.2	0.3	66	0.22	0.042	5
L56879+00N 7075+75E	Soil		1.0	22.7	10.8	45	0.2	15.2	6.8	174	2.65	4.7	3.0	0.9	9	0.1	0.2	0.2	71	0.23	0.042	5
L56879+00N 7076+00E	Soil		0.8	49.2	9.2	49	0.3	25.3	30.8	801	2.65	4.5	1.0	0.3	12	0.3	0.2	0.2	64	0.50	0.055	8
L56879+00N 7076+25E	Soil		1.1	25.0	8.0	47	0.1	24.6	12.5	491	3.17	3.6	1.1	0.9	9	0.2	0.2	0.2	90	0.24	0.051	7

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		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56878+00N 7087+00E	Soil		15	0.09	76	0.065	<1	0.51	0.011	0.03	<0.1	0.04	0.7	<0.1	0.06	5	0.6	<0.2
L56878+00N 7087+25E	Soil		22	0.17	125	0.101	1	0.73	0.010	0.04	<0.1	0.05	0.9	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7087+50E	Soil		41	0.43	86	0.180	2	1.02	0.008	0.05	0.1	0.07	1.7	<0.1	0.10	6	1.0	<0.2
L56878+00N 7087+75E	Soil		39	0.33	55	0.167	<1	1.16	0.008	0.03	<0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7088+00E	Soil		47	0.49	75	0.165	<1	1.51	0.008	0.04	0.1	0.08	2.1	<0.1	<0.05	7	<0.5	<0.2
L56879+00N 7070+00E	Soil		34	0.27	78	0.286	1	0.86	0.010	0.03	<0.1	0.04	1.5	<0.1	<0.05	7	<0.5	<0.2
L56879+00N 7070+25E	Soil		23	0.18	75	0.228	2	0.79	0.010	0.02	<0.1	0.08	0.9	<0.1	<0.05	7	<0.5	<0.2
L56879+00N 7070+50E	Soil		44	0.48	38	0.360	<1	1.51	0.010	0.02	<0.1	0.06	2.1	<0.1	<0.05	6	<0.5	<0.2
L56879+00N 7070+75E	Soil		25	0.21	50	0.265	<1	0.97	0.029	0.02	0.1	0.04	1.4	<0.1	<0.05	6	1.0	<0.2
L56879+00N 7071+00E	Soil		33	0.39	114	0.295	2	0.96	0.010	0.04	0.1	0.07	1.6	<0.1	<0.05	6	<0.5	<0.2
L56879+00N 7071+25E	Soil		23	0.16	57	0.191	<1	0.91	0.010	0.02	<0.1	0.08	1.1	<0.1	0.06	8	0.6	<0.2
L56879+00N 7071+50E	Soil		37	0.32	58	0.319	<1	1.42	0.011	0.02	0.1	0.05	1.9	<0.1	<0.05	8	<0.5	<0.2
L56879+00N 7071+75E	Soil		25	0.14	149	0.097	1	1.03	0.016	0.03	<0.1	0.13	2.6	<0.1	0.11	4	1.9	<0.2
L56879+00N 7072+25E	Soil		23	0.17	97	0.214	<1	0.59	0.009	0.03	0.2	0.05	1.2	<0.1	0.05	7	<0.5	<0.2
L56879+00N 7072+50E	Soil		29	0.34	165	0.194	<1	1.18	0.012	0.03	<0.1	0.03	1.6	<0.1	<0.05	9	<0.5	<0.2
L56879+00N 7072+75E	Soil		43	0.51	121	0.269	<1	1.23	0.008	0.03	0.1	0.06	1.9	<0.1	<0.05	7	0.9	<0.2
L56879+00N 7073+00E	Soil		38	0.48	131	0.164	<1	1.70	0.014	0.05	0.1	0.06	2.7	<0.1	<0.05	7	<0.5	<0.2
L56879+00N 7073+25E	Soil		49	0.57	148	0.281	<1	1.28	0.012	0.04	0.1	0.06	2.1	<0.1	<0.05	7	0.6	<0.2
L56879+00N 7073+50E	Soil		34	0.44	119	0.179	<1	1.37	0.012	0.04	<0.1	0.04	1.8	<0.1	<0.05	8	<0.5	<0.2
L56879+00N 7073+75E	Soil		43	0.49	94	0.296	<1	1.33	0.012	0.04	0.1	0.05	2.1	<0.1	<0.05	8	<0.5	<0.2
L56879+00N 7074+00E	Soil		29	0.33	70	0.203	<1	1.18	0.011	0.03	<0.1	0.03	1.6	<0.1	<0.05	8	<0.5	<0.2
L56879+00N 7074+25E	Soil		27	0.28	89	0.195	<1	0.93	0.009	0.03	<0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
L56879+00N 7074+50E	Soil		29	0.30	74	0.196	<1	1.04	0.010	0.03	<0.1	0.07	1.4	<0.1	<0.05	8	<0.5	<0.2
L56879+00N 7074+75E	Soil		28	0.28	44	0.186	<1	1.13	0.011	0.03	<0.1	0.05	1.5	<0.1	<0.05	8	0.7	<0.2
L56879+00N 7075+00E	Soil		29	0.26	90	0.183	<1	0.93	0.009	0.03	<0.1	0.04	1.2	<0.1	<0.05	8	<0.5	<0.2
L56879+00N 7075+25E	Soil		34	0.35	91	0.238	<1	1.20	0.010	0.04	0.2	0.06	1.6	<0.1	0.06	8	0.6	<0.2
L56879+00N 7075+50E	Soil		33	0.27	73	0.165	<1	1.03	0.013	0.03	0.1	0.04	1.3	<0.1	0.06	9	<0.5	<0.2
L56879+00N 7075+75E	Soil		33	0.31	72	0.198	1	1.25	0.012	0.04	0.1	0.09	1.8	<0.1	0.06	9	<0.5	<0.2
L56879+00N 7076+00E	Soil		42	0.37	88	0.133	1	1.64	0.015	0.03	<0.1	0.07	2.3	<0.1	0.06	7	<0.5	<0.2
L56879+00N 7076+25E	Soil		47	0.52	127	0.234	<1	1.46	0.010	0.03	<0.1	0.04	2.4	<0.1	<0.05	7	0.7	<0.2

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3707 W. 34th Ave.
Vancouver BC V6N 2C9 Canada

Project: CCS 2011
Report Date: September 20, 2011

CERTIFICATE OF ANALYSIS VAN11003589.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L56879+00N 7076+50E	Soil	1.3	20.5	8.4	49	<0.1	32.8	12.9	443	3.08	2.2	15.1	1.2	8	0.2	0.2	0.2	79	0.22	0.041	7
L56879+00N 7076+75E	Soil	0.7	14.3	8.8	34	<0.1	22.4	6.8	243	2.27	<0.5	1.2	0.4	9	<0.1	0.2	0.2	76	0.21	0.046	5
L56879+00N 7077+00E	Soil	0.7	20.6	8.4	32	<0.1	21.0	6.8	239	2.83	9.7	1.5	1.0	8	0.1	0.2	0.2	82	0.18	0.027	4
L56879+00N 7077+25E	Soil	0.6	19.9	7.1	41	0.2	21.7	13.4	281	2.56	2.1	1.4	0.5	15	0.2	0.2	0.1	66	0.52	0.043	7
L56879+00N 7077+50E	Soil	0.8	16.2	11.2	31	0.1	16.0	5.5	162	2.18	1.9	1.7	0.5	9	0.1	0.2	0.2	66	0.13	0.036	6
L56879+00N 7077+75E	Soil	0.8	25.1	9.2	40	0.4	19.1	8.5	361	2.13	1.5	<0.5	0.1	10	0.3	0.2	0.2	53	0.13	0.057	7
L56879+00N 7078+00E	Soil	0.7	18.9	8.0	38	0.2	22.5	8.2	290	2.60	6.7	4.6	0.4	8	0.1	0.2	0.2	70	0.14	0.041	6
L56879+00N 7078+25E	Soil	1.1	28.6	9.0	44	0.3	25.7	8.2	209	2.48	6.5	<0.5	0.3	9	0.3	0.2	0.2	67	0.17	0.053	7
L56879+00N 7078+50E	Soil	0.7	50.6	10.5	75	0.5	157.6	39.1	798	4.25	12.4	2.9	1.4	7	0.2	0.3	0.2	78	0.17	0.048	5
L56879+00N 7078+75E	Soil	1.0	22.3	12.2	36	0.3	14.7	14.2	418	1.75	7.1	7.2	0.1	9	0.4	0.2	0.2	59	0.13	0.048	6
L56879+00N 7079+00E	Soil	0.8	28.6	9.9	37	0.3	15.5	9.4	317	1.79	4.5	<0.5	<0.1	11	0.6	0.1	0.2	53	0.20	0.057	9
L56879+00N 7079+25E	Soil	0.9	23.6	12.1	31	0.5	13.1	6.3	381	1.57	3.4	1.4	<0.1	13	0.3	0.1	0.2	41	0.24	0.054	5
L56879+00N 7079+50E	Soil	1.2	17.5	7.4	40	0.3	20.4	7.8	271	2.92	8.2	2.9	0.9	8	0.2	0.2	0.1	72	0.20	0.047	4
L56879+00N 7079+75E	Soil	0.8	29.4	8.5	44	0.2	39.3	12.6	285	2.96	7.7	2.3	0.9	8	0.4	0.3	0.1	77	0.19	0.034	6

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CERTIFICATE OF ANALYSIS VAN11003589.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L56879+00N 7076+50E	Soil		53	0.62	129	0.221	<1	1.34	0.011	0.03	0.1	0.03	1.9	<0.1	<0.05	8	<0.5	<0.2
L56879+00N 7076+75E	Soil		44	0.41	95	0.213	<1	0.86	0.010	0.03	<0.1	0.05	1.4	<0.1	0.06	7	0.9	<0.2
L56879+00N 7077+00E	Soil		45	0.43	68	0.272	<1	1.03	0.010	0.02	<0.1	0.04	1.6	<0.1	<0.05	7	<0.5	<0.2
L56879+00N 7077+25E	Soil		44	0.56	179	0.196	<1	1.39	0.013	0.03	0.1	0.04	2.1	<0.1	<0.05	6	<0.5	<0.2
L56879+00N 7077+50E	Soil		36	0.35	101	0.179	1	1.05	0.011	0.03	<0.1	0.02	1.6	<0.1	<0.05	8	<0.5	<0.2
L56879+00N 7077+75E	Soil		32	0.33	115	0.086	<1	1.51	0.013	0.04	0.1	0.04	1.3	<0.1	<0.05	7	<0.5	<0.2
L56879+00N 7078+00E	Soil		45	0.41	109	0.124	<1	1.19	0.008	0.03	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
L56879+00N 7078+25E	Soil		46	0.45	160	0.120	<1	1.59	0.011	0.04	0.1	0.05	1.8	<0.1	<0.05	7	0.8	<0.2
L56879+00N 7078+50E	Soil		230	2.95	125	0.113	<1	3.58	0.010	0.04	0.1	0.07	3.8	<0.1	<0.05	8	<0.5	<0.2
L56879+00N 7078+75E	Soil		21	0.22	105	0.109	<1	1.07	0.013	0.04	0.1	0.02	1.0	<0.1	<0.05	8	3.0	<0.2
L56879+00N 7079+00E	Soil		29	0.21	227	0.066	<1	1.18	0.012	0.03	<0.1	0.05	1.0	<0.1	<0.05	7	0.5	<0.2
L56879+00N 7079+25E	Soil		25	0.17	146	0.068	<1	0.97	0.013	0.04	<0.1	0.07	0.8	<0.1	<0.05	7	0.5	<0.2
L56879+00N 7079+50E	Soil		47	0.38	108	0.178	<1	1.39	0.011	0.04	0.1	0.08	1.8	<0.1	<0.05	7	<0.5	<0.2
L56879+00N 7079+75E	Soil		72	0.89	109	0.208	<1	1.58	0.009	0.03	0.1	0.04	2.5	<0.1	<0.05	5	<0.5	<0.2

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QUALITY CONTROL REPORT VAN11003589.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
L56876+00N 7071+00E	Soil	0.4	21.4	4.1	30	<0.1	20.5	9.4	212	2.09	4.4	2.7	1.0	7	0.1	0.2	<0.1	63	0.35	0.028	5
REP L56876+00N 7071+00E	QC	0.4	20.8	3.9	28	<0.1	19.8	9.4	199	2.04	4.3	1.3	1.0	6	0.1	0.2	<0.1	60	0.33	0.026	5
L56876+00N 7078+25E	Soil	0.7	13.5	8.7	42	0.1	17.7	6.6	314	2.57	3.6	2.5	0.5	8	0.1	0.2	0.2	76	0.18	0.040	6
REP L56876+00N 7078+25E	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56877+00N 7071+00E	Soil	0.5	12.1	13.9	24	0.1	4.4	1.1	91	0.86	2.6	<0.5	<0.1	6	0.3	0.2	0.2	26	0.11	0.047	2
REP L56877+00N 7071+00E	QC	0.7	12.0	13.4	24	<0.1	4.2	1.0	93	0.87	2.8	1.8	<0.1	6	0.3	<0.1	0.1	26	0.11	0.048	2
L56877+00N 7076+75E	Soil	0.6	13.6	8.8	37	0.1	18.1	6.5	211	2.91	3.6	0.6	0.7	8	0.2	0.2	<0.1	89	0.16	0.057	6
REP L56877+00N 7076+75E	QC	0.7	13.6	8.8	38	0.1	17.1	6.7	214	2.97	3.2	1.8	0.7	9	0.2	0.2	<0.1	88	0.18	0.056	6
L56877+00N 7078+50E	Soil	0.8	16.1	8.9	41	0.1	24.9	7.4	292	3.04	2.6	2.0	1.4	6	0.1	0.2	0.3	75	0.11	0.035	5
REP L56877+00N 7078+50E	QC	0.9	16.1	8.7	41	0.1	24.1	7.6	296	3.06	2.3	1.3	1.4	6	0.2	0.2	0.3	76	0.12	0.037	5
L56877+00N 7084+00E	Soil	1.1	13.3	11.0	68	0.2	21.9	9.9	357	3.53	4.7	1.8	1.3	9	0.3	0.3	0.2	95	0.17	0.042	8
REP L56877+00N 7084+00E	QC	0.9	13.6	10.5	71	0.1	21.9	10.0	371	3.56	4.7	4.8	1.3	10	0.5	0.3	0.2	96	0.18	0.045	9
L56878+00N 7072+00E	Soil	0.8	13.6	10.1	30	0.1	11.7	4.5	138	2.07	2.0	2.1	0.6	7	<0.1	0.2	0.2	86	0.12	0.038	4
REP L56878+00N 7072+00E	QC	0.9	14.0	9.8	30	0.1	11.3	4.7	135	2.08	2.4	6.0	0.6	7	0.2	0.2	0.2	84	0.12	0.037	4
L56878+00N 7075+25E	Soil	0.7	13.7	12.5	48	<0.1	15.0	6.2	562	2.63	3.1	0.7	0.6	9	0.1	0.3	0.2	74	0.18	0.053	5
REP L56878+00N 7075+25E	QC	0.7	13.1	12.0	48	<0.1	13.8	6.0	548	2.55	3.2	1.6	0.6	9	0.1	0.3	0.2	69	0.17	0.050	4
L56878+00N 7080+50E	Soil	1.4	16.1	11.1	30	0.3	19.7	5.7	102	1.46	2.8	2.1	0.5	8	0.1	0.2	0.2	67	0.18	0.044	6
REP L56878+00N 7080+50E	QC	1.3	14.8	10.7	28	0.3	18.0	5.5	100	1.39	2.3	4.4	0.5	8	0.1	0.2	0.2	66	0.17	0.038	5
L56878+00N 7085+75E	Soil	0.7	37.6	12.9	90	0.3	42.2	13.7	437	3.06	30.6	3.8	1.5	12	0.3	0.3	0.3	70	0.48	0.045	6
REP L56878+00N 7085+75E	QC	0.9	38.1	12.4	88	0.3	42.0	13.9	436	3.00	30.2	0.7	1.6	12	0.3	0.3	0.2	69	0.47	0.045	6
L56879+00N 7070+25E	Soil	0.7	10.9	12.6	22	0.2	8.4	3.5	130	1.59	1.3	1.6	0.2	8	0.1	0.2	0.3	61	0.12	0.047	4
REP L56879+00N 7070+25E	QC	0.7	10.6	12.7	23	0.1	8.7	3.3	130	1.56	1.1	3.0	0.2	8	<0.1	0.2	0.3	61	0.12	0.047	5
L56879+00N 7076+75E	Soil	0.7	14.3	8.8	34	<0.1	22.4	6.8	243	2.27	<0.5	1.2	0.4	9	<0.1	0.2	0.2	76	0.21	0.046	5
REP L56879+00N 7076+75E	QC	0.7	14.9	9.0	37	<0.1	23.7	6.9	252	2.31	<0.5	0.8	0.4	9	0.2	0.3	0.2	77	0.22	0.051	5
Reference Materials																					
STD DS8	Standard	12.2	110.1	114.4	296	1.6	38.3	7.0	563	2.31	26.7	103.5	6.1	56	2.2	5.1	5.7	40	0.61	0.068	13
STD DS8	Standard	13.1	111.5	123.6	310	1.9	38.5	7.4	616	2.41	25.1	124.3	6.4	63	2.3	5.6	6.4	42	0.66	0.079	15
STD DS8	Standard	13.5	108.5	125.0	311	1.9	36.2	7.2	621	2.46	24.7	109.3	7.4	70	2.3	5.7	6.8	42	0.70	0.080	17

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
L56876+00N 7071+00E	Soil	41	0.64	30	0.300	<1	1.47	0.007	0.01	<0.1	0.02	2.4	<0.1	<0.05	4	0.8	<0.2
REP L56876+00N 7071+00E	QC	40	0.62	30	0.289	<1	1.38	0.006	0.01	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
L56876+00N 7078+25E	Soil	41	0.44	102	0.200	1	1.06	0.010	0.03	<0.1	0.06	1.6	<0.1	<0.05	7	0.6	<0.2
REP L56876+00N 7078+25E	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L56877+00N 7071+00E	Soil	10	0.03	82	0.040	<1	0.34	0.015	0.02	<0.1	0.07	0.1	<0.1	<0.05	6	<0.5	<0.2
REP L56877+00N 7071+00E	QC	10	0.04	79	0.045	<1	0.34	0.014	0.02	<0.1	0.08	<0.1	<0.1	<0.05	6	<0.5	<0.2
L56877+00N 7076+75E	Soil	41	0.42	68	0.278	<1	1.15	0.011	0.03	0.2	0.04	1.6	<0.1	0.06	7	<0.5	<0.2
REP L56877+00N 7076+75E	QC	41	0.41	67	0.278	<1	1.14	0.011	0.03	0.2	0.04	1.6	<0.1	<0.05	7	<0.5	<0.2
L56877+00N 7078+50E	Soil	47	0.52	60	0.233	1	1.46	0.013	0.03	0.1	0.05	1.6	<0.1	<0.05	9	<0.5	<0.2
REP L56877+00N 7078+50E	QC	48	0.53	57	0.236	<1	1.51	0.013	0.03	0.1	0.06	1.6	<0.1	<0.05	9	0.6	<0.2
L56877+00N 7084+00E	Soil	54	0.59	124	0.239	<1	1.43	0.009	0.03	<0.1	0.05	1.9	<0.1	0.06	9	0.6	<0.2
REP L56877+00N 7084+00E	QC	55	0.59	123	0.275	1	1.48	0.011	0.03	0.2	0.04	2.1	<0.1	<0.05	10	<0.5	<0.2
L56878+00N 7072+00E	Soil	32	0.30	76	0.335	<1	0.82	0.009	0.03	<0.1	0.04	1.3	<0.1	<0.05	7	<0.5	<0.2
REP L56878+00N 7072+00E	QC	32	0.29	76	0.328	<1	0.82	0.009	0.03	0.1	0.04	1.2	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7075+25E	Soil	32	0.35	98	0.204	1	1.03	0.009	0.04	0.1	0.07	1.4	<0.1	<0.05	7	<0.5	<0.2
REP L56878+00N 7075+25E	QC	30	0.33	94	0.190	<1	0.97	0.008	0.04	0.1	0.07	1.2	<0.1	<0.05	7	<0.5	<0.2
L56878+00N 7080+50E	Soil	42	0.41	108	0.191	<1	1.31	0.010	0.03	<0.1	0.09	1.6	<0.1	0.08	9	<0.5	<0.2
REP L56878+00N 7080+50E	QC	42	0.40	104	0.178	<1	1.26	0.010	0.03	<0.1	0.08	1.5	<0.1	0.06	8	<0.5	<0.2
L56878+00N 7085+75E	Soil	74	0.54	153	0.119	2	2.88	0.013	0.05	0.1	0.08	4.1	<0.1	<0.05	10	<0.5	<0.2
REP L56878+00N 7085+75E	QC	75	0.53	151	0.118	<1	2.86	0.013	0.05	0.2	0.07	4.0	<0.1	<0.05	10	<0.5	<0.2
L56879+00N 7070+25E	Soil	23	0.18	75	0.228	2	0.79	0.010	0.02	<0.1	0.08	0.9	<0.1	<0.05	7	<0.5	<0.2
REP L56879+00N 7070+25E	QC	23	0.17	79	0.226	1	0.80	0.011	0.02	0.1	0.11	1.1	<0.1	<0.05	7	1.2	<0.2
L56879+00N 7076+75E	Soil	44	0.41	95	0.213	<1	0.86	0.010	0.03	<0.1	0.05	1.4	<0.1	0.06	7	0.9	<0.2
REP L56879+00N 7076+75E	QC	45	0.43	98	0.221	1	0.91	0.011	0.03	0.1	0.06	1.4	<0.1	0.06	8	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	112	0.54	250	0.101	2	0.81	0.074	0.39	2.7	0.19	1.7	5.1	0.13	4	5.9	4.9
STD DS8	Standard	118	0.60	276	0.115	2	0.89	0.081	0.39	3.1	0.21	2.1	5.3	0.17	5	5.7	4.9
STD DS8	Standard	116	0.61	283	0.124	3	0.90	0.091	0.41	2.9	0.19	2.3	5.5	0.13	5	5.2	4.5

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Phone (604) 253-3158 Fax (604) 253-1716
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Client: **PAC Geological Consulting Inc.**
3707 W. 34th Ave.
Vancouver BC V6N 2C9 Canada

Project: CCS 2011
Report Date: September 20, 2011

QUALITY CONTROL REPORT VAN11003589.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	**Cu**	**Pb**	**Zn**	**Ag**	**Ni**	**Co**	**Mn**	**Fe**	**As**	**Au**	**Th**	**Sr**	**Cd**	**Sb**	**Bi**	**V**	**Ca**	**P**	**La**
		ppm	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**%**	**ppm**	**ppb**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**%**	**%**	**ppm**
		0.1	**0.1**	**0.1**	**1**	**0.1**	**0.1**	**0.1**	**1**	**0.01**	**0.5**	**0.5**	**0.1**	**1**	**0.1**	**0.1**	**0.1**	**2**	**0.01**	**0.001**	**1**
STD DS8	Standard	11.7	101.4	120.6	295	1.7	34.3	6.7	566	2.27	23.2	104.3	6.2	62	2.2	5.0	6.3	37	0.61	0.074	14
STD DS8	Standard	12.7	108.7	125.2	311	1.8	37.2	7.3	595	2.41	25.2	121.2	6.6	65	2.1	5.4	6.9	41	0.64	0.081	13
STD DS8	Standard	12.6	107.9	121.5	317	1.8	37.1	7.5	621	2.48	24.3	134.9	6.7	68	2.6	5.9	6.5	41	0.69	0.080	15
STD DS8	Standard	13.4	103.2	121.7	316	2.0	39.1	7.8	623	2.57	27.0	116.6	6.7	62	2.5	5.4	6.1	45	0.69	0.082	16
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	2.2	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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QUALITY CONTROL REPORT VAN11003589.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	106	0.56	248	0.104	2	0.83	0.080	0.38	2.6	0.20	2.0	5.3	0.12	4	5.7	4.5
STD DS8	Standard	115	0.59	262	0.111	3	0.88	0.086	0.41	2.9	0.20	2.2	5.3	0.15	4	3.5	4.7
STD DS8	Standard	118	0.61	273	0.116	3	0.91	0.091	0.41	2.9	0.21	2.3	5.3	0.15	5	6.7	4.3
STD DS8	Standard	120	0.62	284	0.111	3	0.98	0.108	0.44	3.0	0.20	2.1	5.5	0.17	5	4.9	5.4
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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StewartGroup
Geochemical & Assay

CERTIFICATE OF ANALYSIS AK 2011-1627

Gerald Locke
775 Sequoia Place
Kamloops, BC
V2C 5W3

5-Oct-11

No. of samples received: 8
Sample Type: Rock
Submitted by: Gerald Locke

ET #.	Tag #	Au (ppb)
1	Sample #1	415
2	Sample #2	325
3	Rock sample Fr #2	250
4	Sample #3	670
5	Sample #4	25
6	Sample #5	20
7	Sample #6	20
8	Sample #7	10

QC DATA:

Repeat:

1	Sample #1	420
4	Sample #3	645

Resplit:

1	Sample #1	360

Standard:

OXG84	920

FA Geochem/AA Finish

NM/EL
XLS/11

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Geochemical & Assay

CERTIFICATE OF ASSAY AK 2011-1237

Gerald Locke
775 Sequoia Place
Kamloops, BC
V2C 5W3

26-Sep-11

No. of samples received: 3
Sample Type: Rock
Submitted by: Gerald Locke

ET #.	Tag #	Au (g/t)	Au (oz/t)
2	Sulphide #2	3.67	0.107

QC DATA:
Standard:
OXK69 3.55 0.104

FA/AA Finish

NM/mb
XLS/11

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StewartGroup
Geochemical & Assay

CERTIFICATE OF ANALYSIS AK 2011-1121

Gerald Locke
775 Sequoia Place
Kamloops, BC
V2C 5W3

25-Aug-11

No. of samples received: 7
Sample Type: Rock
Submitted by: Gerald Locke

ET #.	Tag #	Au (ppb)
1	#1	75
2	#2	<5
3	#3	75
4	#4	170
5	#5	<5
6	#6	25
7	#7	15

QC DATA:

Repeat:

1	#1	65
4	#4	155

Resplit:

1	#1	85

Standard:

OXG84	945

FA Geochem/AA Finish

NM/EL
XLS/11

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StewartGrou
Geochemical & Assay

CERTIFICATE OF ANALYSIS AK 2011-1054

Gerald Locke
775 Sequoia Place
Kamloops, BC
V2C 5W3

25-Aug-11

No. of samples received: 1
Sample Type: Rock
Submitted by: Gerald Locke

ET #.	Tag #	Au (ppb)
1	Chu Chua North	160

QC DATA:

Repeat:

1	Chu Chua North	175

Standard:

OXE86	610

FA Geochem/AA Finish

ECO TECH LABORATORY LTD.
Norman Monteith
B.C. Certified Assayer

NM/EL
XLS/11

APPENDIX B ACME Quality Assurance & Certification

Acme Analytical Laboratories has dedicated itself to providing a high quality service to the mining and exploration industry.

Quality Management System and ISO Registration

Foreseeing the need for a globally recognized mark of quality in 1994, Acme began adapting its Quality Management System to an ISO 9000 model. Acme implemented a quality system compliant with the International Standards Organization (ISO) 9001 Model for Quality Assurance and ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories. On November 13, 1996, Acme became the first commercial geochemical analysis and assaying lab in North America to be accredited under ISO 9001. The laboratory has maintained its registration in good standing since then. Vancouver expanded the scope of it's registration to include the Smithers preparation facility in June of 2009, Yellowknife in April 2010 and Whitehorse in May 2010.

In 2005 the Santiago, Chile laboratories received ISO 9001:2000 registration with the preparation facilities in Mendoza, Argentina and Georgetown, Guyana following in 2006 and Acme's Lima, Peru facility in 2009. As of July 2010 Chile's new Copiapo facility has been added to the Sanitago registration and shortly Acme anticipates the addition of both Medellin Colombia and Goiania Brazil.

Both the Vancouver and Santiago hub laboratories are working toward ISO 17025:2005 accreditation and are expected to complete the accreditation process within the next year.

Acme has for many years regularly participated in the CANMET and Geostats round robin proficiency tests. Acme is recognized as a participant in the CALA Proficiency Testing Program and is registered by the BC Ministry of Water Land and Air Protection under the Environmental Data Quality Assurance (EDQA) Regulation.

All laboratories fall under the Quality Management Scope helping to ensure the same practices and procedures are followed throughout the organization.

Quality Control in Testing

Samples submitted are analyzed with the strictest quality control. Blanks (analytical and method), duplicates and standard reference materials inserted in the sequences of client samples provide a measure of background noise, accuracy and precision. QA/QC protocol incorporates agranite or quartz sample-prep blank(s) carried through all stages of preparation and analysis as the first sample(s) in the job. Typically an analytical batch will be comprised of 34-36 client samples, a pulp duplicate to monitor analytical precision, a -10 mesh reject duplicate to monitor sub-sampling variation (drill core only), a reagent blank to measure background and an aliquot of Certified Reference Material (CRM) or Inhouse Reference Material to monitor accuracy. In the absence of suitable CRMs Inhouse Reference Materials are prepared and certified against internationally certified reference materials such as CANMET and USGS standards where possible and will be externally verified at a minimum of 3 other commercial laboratories. Using these inserted quality control samples each analytical batch and complete job is rigorously reviewed and validated prior to release.

Acme has always prided itself on providing the highest level of quality control data to its clients. Recent implementation of Acme new laboratory information management system (LIMS) and AcmeAccess provides clients with even greater access to quality control data.