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

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TYPE OF REPORT (type of survey(s))	**TOTAL COST**	**$37,782.14**
Geochemical Sampling		

AUTHOR(S) R. T. Henneberry
SIGNATURE(S) "signed and sealed"

NOTICE OF WORK NUMBER(S) / DATE(S)
YEAR OF WORK 2012

STATEMENT OF WORK – CASH PAYMENT EVENT NUMBERS / DATE(S) 5399057, 5405351

PROPERTY NAME Lacey

CLAIM NAME(S) (on which work was done)
Lacey block 700664,700827,705562,705563,843547,850203,946400,947077,947340,974189,974230,974273,989902, 995912; Limestone block 841088,841096,937852
COMMODITIES SOUGHT gold
MINERAL INVENTORY MINFILE NUMBERS, IF KNOWN
MINING DIVISION Similkameen
NTS: 092F/02,07 TRIM 092F027, 036,037; 092F007,017

LATITUDE
NORTHING 5462000 EASTING 374000
LONGITUDE
UTM ZONE 10 MAP DATUM NAD 83 (at centre of work)

OWNER 1
Paul Saulnier

OWNER 2

MAILING ADDRESS
6495 Cherry Creek Road
Port Alberni, B.C. V9Y 8T3

OPERATORS (who paid for work)
ANGILD INVESTMENTS LTD.

MAILING ADDRESS
1601 – 2075 Comox Street
Vancouver, B.C. V6T 1C2

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size, attitude)
Lacey Property is comprised of two blocks of claims: Lacey and Limestone. Both blocks are underlain by Sicker Group rocks, Vancouver Group rocks and Nanaimo Group rocks, intruded by Jurassic and Eocene intrusions.
Two areas of anomalous Au and/or Cu in soil were found on the Lacey block and one was found on the Limestone block.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS
26919,29053,32090,32685

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (In Metric Units)	On Which Claims	Project Costs Apportioned
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo Interpretation			
GEOPHYSICAL (line kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Siesmic			
Other			
Airborne			
GEOCHEMICAL (number of samples analyzed for)			
Soil Lacey Block	147	700664,700827,705562,843547, 850203,947077,947340,974189,974230,974273, 977552, 989902, 995912	
Soil Limestone Block	15	841096	
Silt			
Rock Lacey Block	43	700664,705562, 947077,947340,974189, 974230,974273,977552, 989902, 995912	
Rock Limestone Block	15	841088,841096,937852	
Other			
DRILLING (total metres, number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / assaying			
Petrographic			
Mineralogical			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATION / PHYSICAL			
Line/grid (kilometres)			
Topographic / Photogrammatic (scale, area)			
Legal Surveys (scale, area)			
Road, local access (kilometres)			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST	**$37,782.14**

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2012 PHASE I GEOCHEMICAL REPORT

LACEY PROJECT
(LACEY and LIMESTONE BLOCKS)

Alberni Mining Division

Lacey Block TRIM Sheet 09F027, 092F036, 092F037
UTM (NAD 83) ZONE 10 374000E 5462000N

Limestone Block TRIM Sheet 092F007, 092F017
UTM (NAD 83) ZONE 10 378500E 5440500N

FOR

Angild Investments Ltd.
1601 – 2075 Comox Street
Vancouver, B.C. V6G 1S2

By: R.Tim Henneberry, P.Geo.
September 23, 2012

SUMMARY

The road accessible Lacey and Limestone Blocks of the Lacey Property are being explored for polymetallic quartz veins. The Lacey Block lies 4 kilometres east of Port Alberni, British Columbia and the Limestone Block lies 18 southeast of Port Alberni on central Vancouver Island. Angild Investments Ltd. of Vancouver, British Columbia is funding the on-going exploration of the Lacey Property and is earning a 60% undivided interest in the claims.

Both blocks of the Lacey property are underlain predominantly by northwest trending volcanic-volcaniclastic-sedimentary rocks of the Paleozoic Sicker Group, younger mafic volcanics of the Vancouver Group and sediments of the Nanaimo Group.

A Phase I exploration program of preliminary rock sampling and limited road soil sampling was successful in locating three areas of anomalous gold in soil and/or copper in soil values:

- The Lacey NE Au Cu area consists of two sections of continuous anomalous gold in soil and copper in soil over a 1500 metre section of logging road in this area.

- The Lacey Central Cu consists of an area of semi-continuous copper in soil values 750 long along a logging road. The highest gold value on the Lacey block also came from this area.

- A zone of continuous copper in soil and semi-continuous gold in soil was located in limited sampling on the Limestone block. Two anomalous rock samples in excess of 100 ppb Au were also obtained on the Limestone block.

A Phase II program of grid soil sampling on the two Lacey block anomalous areas and road soil sampling on the Limestone block is recommended at a cost of $50,000.

The cost of the 2012 Phase I Exploration Program was $37,782.14 with $27,263.02 allocated to the Lacey block and $10,519.13 allocated to the Limestone block.

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APPENDICIES

INTRODUCTION

The purpose of this report is to compile the data from the 2012 Phase I exploration program on the Lacey and Limestone Blocks of the Lacey Project to meet assessment requirements.

This report was commissioned by Mr. Sydney Wilson of Angild Investments Ltd., the operator and Mr. Paul Saulnier, the property owner. By funding the exploration programs, Angild Investments has earned a 60% interest in the property.

The Lacey project is being explored for auriferous polymetallic quartz veins. The geological setting in the Sicker volcanics makes the ground also prospective for Volcanogenic Massive Sulfide (VMS) deposits.

The exploration program was undertaken by Mammoth Geological Ltd., the authors consulting company. However, the author has yet to visit the Lacey project.

RELIANCE ON OTHER EXPERTS

The author is not relying on a report or opinion of any experts. The ownership of the claims comprising the property and the ownership of the surrounding claims has been taken from the Mineral Titles Online database maintained by the British Columbia Ministry of Energy and Mines. The data on this site is assumed to be correct.

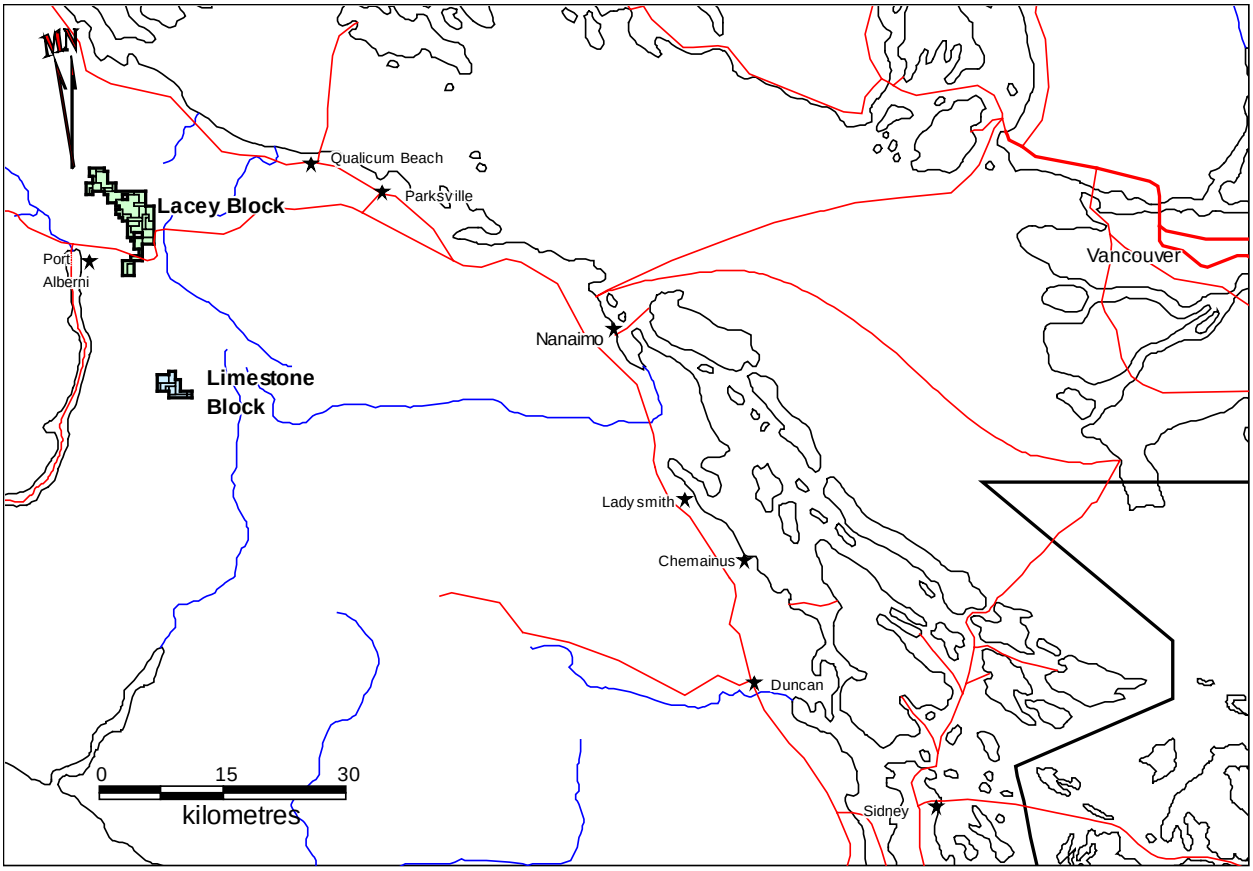
The section describing the History of the property area has been taken from the British Columbia Ministry of Energy and Mines Assessment Files. The geological assessment reports have been written by competent geologists and engineers to the industry standards of the day. The rock, soil and silt analyses were completed by reputable Canadian assay labs in accord with industry standards of the day.

PROPERTY DESCRIPTION AND LOCATION

The Lacey Project consists of two claim blocks: the 30 claim, 3,476 hectare Lacey block and the 10 claim 782 hectare Limestone block. The Lacey block lies on TRIM sheets 092F027, 092F036 and 092F037 and the Limestone block lies on TRIM Sheets 092F007 and 092F017. Both block lie on NTS sheet 092F in the Alberni Mining Division. The claims were acquired by map staking under the provincial Mineral Titles Online system. The geographic center of the Lacey Block is property is approximately 374000E 5460000N in UTM ZONE 10 (NAD 83). The geographic center of the Limestone Block is property is approximately 378500E 5440500N in UTM ZONE 10 (NAD 83).

All claims are registered in the name of Paul Albert Saulnier of Port Alberni, B.C. Angild Investments Ltd. of Vancouver, B.C. funded the exploration program and now holds sixty percent ownership in the claims.

There are no environmental liabilities associated with the Lacey property to the best of the author's knowledge. The next phase of exploration on the Lacey property will be further soil sampling for which a permit is not required.



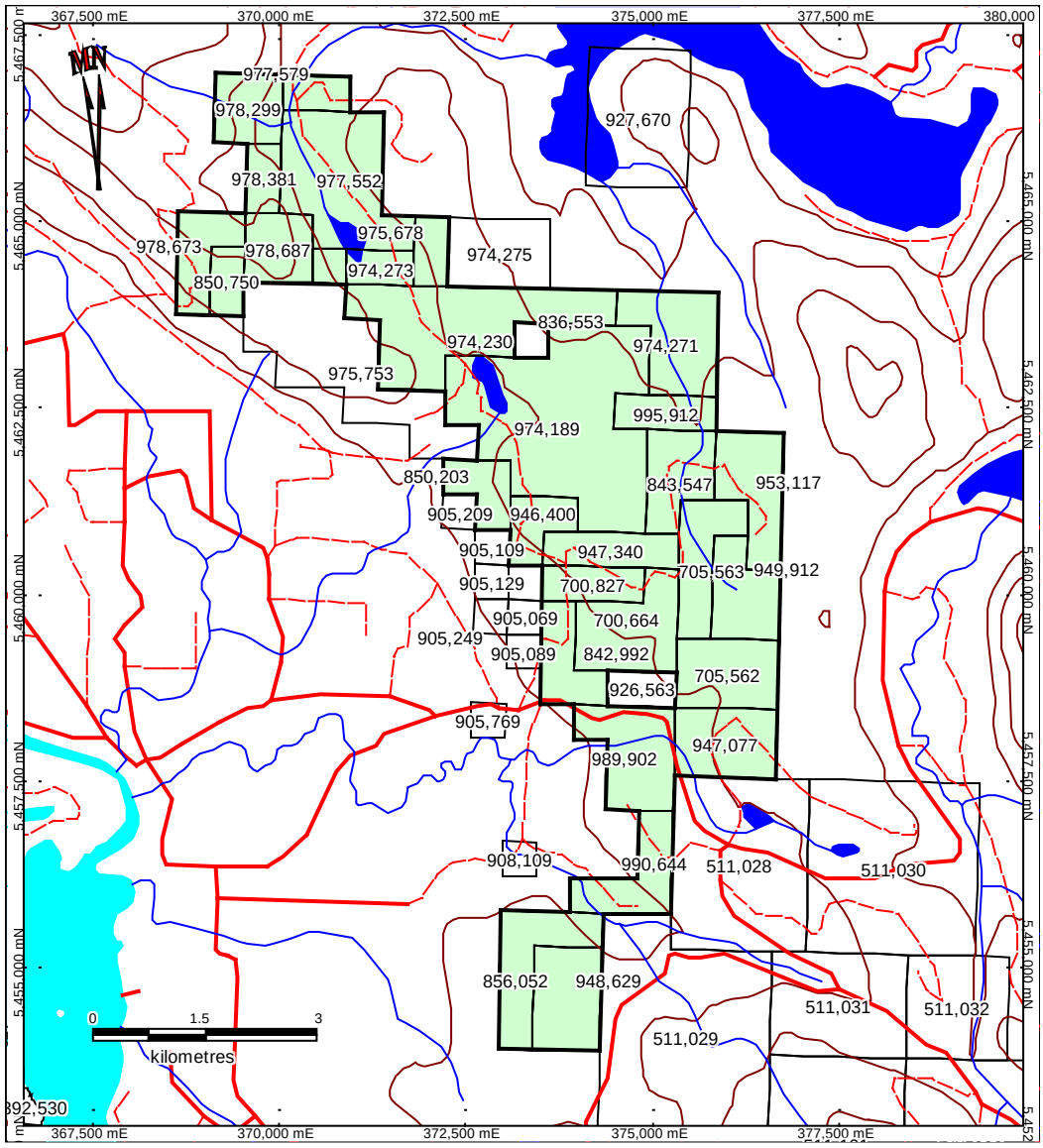
UTM Lat/Long NAD 83

Figure 1. Location Map

The author is not aware of any other significant factors and risks that may affect access, title, or the right or ability to perform work on the Lacey property.

Table 1a. List of Limestone Block Mineral Tenures

Tenure Number	Claim Name	Owner	Map Number	Issue Date	Good To Date	Area (ha)
841086	LIME	123745 (100%)	092F	2010/dec/17	2014/dec/01	84.6015
841088	LIME2	123745 (100%)	092F	2010/dec/17	2014/dec/01	21.1504
841096	LIME3	123745 (100%)	092F	2010/dec/17	2014/dec/01	105.7448
841099	LIME4	123745 (100%)	092F	2010/dec/17	2014/dec/01	126.8659
841914	LIME3	123745 (100%)	092F	2010/dec/29	2014/dec/01	126.8925
841923	LIME5	123745 (100%)	092F	2010/dec/29	2014/dec/01	21.1505
897997	LIME	123745 (100%)	092F	2011/sep/19	2014/dec/01	42.3007
937852	LIME4	123745 (100%)	092F	2011/dec/18	2014/dec/01	126.8783
937859	LIME5	123745 (100%)	092F	2011/dec/18	2014/dec/01	105.7622
939410	LIME	123745 (100%)	092F	2012/jan/01	2014/dec/01	21.1522
10	Claims					782.499



UTM NAD 83 Zone 10

Figure 2a. Lacey Block Claim Map

ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

The Lacey Block of the Lacey Property lies 4 kilometres east of Port Alberni. The Lacey Block is accessed by taking Highway 5 kilometres east from Port Alberni to the Lacy Lake Forest Service Road. This road bisects most of the property, which is accessible by the numerous spur roads from the Forest Service Road. Topography is moderate but rugged ranging from 260 metres at Lacy Lake and Lacy Creek to 740 metres at the top northern end of the claim block and 440 metres at the southern end of the claim block.

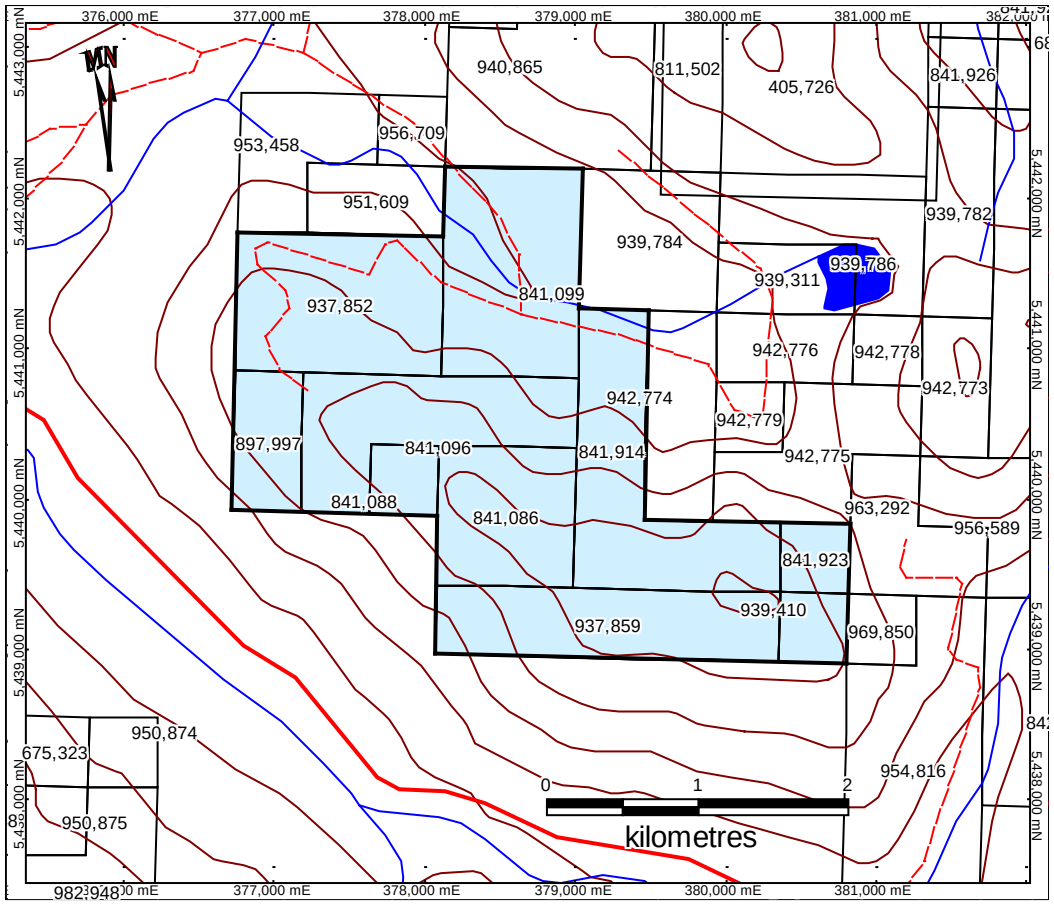
The Limestone Block of the Lacey Property lies 18 kilometres southeast of Port Alberni. The Limestone Block is accessed by taking the Bamfield Road south from Port Alberni for approximately 18 kilometres to the Thistle Mine Road. The block lies at approximately kilometre 9 along the Thistle Mine Road. Branch 50 logging road and its spurs provide access to much of the claim block. There is active logging on some of the Branch 50 spurs. Topography is steep and rugged ranging from 560 metres at Franklin Creek to 1480 metres at the top of Limestone Mountain in the southeast of the claim block.

Table 1b. List of Lacey Block Mineral Tenures

Tenure Number	Claim Name	Owner	Map Number	Issue Date	Good To Date	Area (ha)
700664		123745 (100%)	092F	2010/jan/16	2014/jun/30	147.5159
700827		123745 (100%)	092F	2010/jan/17	2014/jun/30	63.2133
705562	HORNE1	123745 (100%)	092F	2010/feb/05	2014/jun/30	126.4581
705563	HORNE2	123745 (100%)	092F	2010/feb/05	2014/jun/30	105.3495
842992	LACY4	123745 (100%)	092F	2011/jan/14	2014/jun/30	84.3014
843547	LASY	123745 (100%)	092F	2011/jan/19	2014/jun/30	105.3261
850203		123745 (100%)	092F	2011/mar/31	2014/jun/30	63.1991
850750	LASY	123745 (100%)	092F	2011/apr/04	2014/jun/30	42.1151
856052		123745 (100%)	092F	2011/jun/01	2014/jun/30	126.5617
946400	HORNE	123745 (100%)	092F	2012/feb/05	2014/jun/30	63.2031
947077		123745 (100%)	092F	2012/feb/08	2014/jun/30	126.4811
947340	HORNE	123745 (100%)	092F	2012/feb/09	2014/jun/30	84.277
948629	HV	123745 (100%)	092F	2012/feb/12	2014/jun/30	126.5726
949912	HORNE6	123745 (100%)	092F	2012/feb/15	2014/jun/30	105.36
953117	HORNE4	123745 (100%)	092F	2012/feb/27	2014/jun/30	126.3971
974189	HORNE 5	123745 (100%)	092F	2012/mar/29	2014/jun/30	526.5533
974230	HORNE 6	123745 (100%)	092F	2012/mar/29	2014/jun/30	294.8179
974271	HORNE7	123745 (100%)	092F	2012/mar/29	2014/jun/30	147.4035
974273	HORNE8	123745 (100%)	092F	2012/mar/29	2014/jun/30	42.1134
975678	HORNE8	123745 (100%)	092F	2012/mar/31	2014/jun/30	42.1115
977552		123745 (100%)	092F	2012/apr/03	2014/jun/30	252.6406
977579	HORNE	123745 (100%)	092F	2012/apr/03	2014/jun/30	42.1044
978286	HORNE13	123745 (100%)	092F	2012/apr/05	2014/jun/30	21.0567
978299	HORNE	123745 (100%)	092F	2012/apr/05	2014/jun/30	84.2123
978381	HORNE	123745 (100%)	092F	2012/apr/06	2014/jun/30	42.1047
978673	HORNE	123745 (100%)	092F	2012/apr/09	2014/jun/30	84.2252
978687	HORNE	123745 (100%)	092F	2012/apr/09	2014/jun/30	84.2234
989902	HORNE	123745 (100%)	092F	2012/may/24	2014/jun/30	147.5639
990644	HORNE	123745 (100%)	092F	2012/may/26	2014/jun/30	105.4436
995912	HORNE4	123745 (100%)	092F	2012/jun/10	2014/jun/30	63.1852
30	Claims					3476.0907

Both claim blocks are generally covered with dense stands of spruce, fir, balsam and cedar. The underbrush is dense and thick. Several areas of the claim have recently been logged with second generation growth at various stages of development. Secondary logging roads in various degrees of deactivation will provide access to most of the property.

The climate on the central island is relatively mild. The summers are warm and generally dry, while the winters are cool and wet. Snow will accumulate on the higher peaks, but generally the valley bottoms and lower hills are clear for year round work.



UTM NAD 83 Zone 10 **Figure 2b. Limestone Block Claim Map**

The logistics of working in this part of the province are excellent. Gravel road access will allow the movement of supplies and equipment by road. Heavy equipment should be available locally in Port Alberni, as are supplies, fuel and lodging.

HISTORY

Following are summaries of the historic exploration completed on the Lacey and Limestone Blocks:

Lacey Block

Heather Resources Inc. completed a 105 sample soil program on their Joy and Sandy claims in the area of old trenches in 1981. Samples were collected on a north-south oriented grid at intervals of 30.5 metres. One gold value of 90 ppb was obtained. (Bullis, 1981). The Joy and Sandy claims are now covered by current tenure 948629.

Westmin Resources Ltd. and Noranda Exploration Company, Limited completed a program of grid soil sampling and ground geophysics on the Oets Group in 1985. They took 182 soil samples on a 100 metre by 50 metre grid and 1 rock sample and completed 8.4 line kilometres of VLF-EM and 7.2 line kilometres of horizontal loop EM. Nothing of significance was noted in the geochemistry or geophysics. (Wilson and Bradish, 1985). The north end of the Oets property covers current tenure 947077.

Reward Resources Ltd. completed a program of reconnaissance geological mapping and rock and silt sampling on the Horne claim group in 1986 (Hawkins, 1986). The western portion of the Horne group lies on current tenure 953117. Nothing of significance was noted on this portion of the Horne property. Reward subsequently optioned the ground to Nexus Resource Corporation, who carried out further exploration in 1987 (Cope and Hawkins, 1987) and 1988 (Cope, 1988). Again, nothing of significance was noted on this portion of the Horne property. This property was subsequently restaked and prospected in 1989-1990 (Hayes, 1990). Once again, nothing of significance was noted on this portion of the Horne property.

Lode Resource Corporation completed a program of soil sampling, rock sampling, mapping, and ground geophysical surveys on their Lacy Stokes claim group from December 1986 to February 1987. A total of 1,625 B-horizon soil samples were collected at 50 metre intervals and 25 metre intervals in detailed grid areas. The grids were also surveyed using VLF-EM and magnetics at 25 metre intervals. The same grid was also used for control of geological mapping and prospecting. The soil geochemistry found a number of geochemical soil anomalies, consisting of precious and base metals, and other associated or "pathfinder" metals, formed several, distinct, NW to NNW trending geochemically anomalous zones, following the strike of regional geology. A narrow but persistent gold soil anomaly was be traced for some 5 km in NNW direction across the survey grid on the claims, with Au values up to 415 ppb. In addition, several silver anomalies were found following a similar regional trend. The mapping and sampling located massive sulphide type pyrite in one location along a railway cut, returning a grab value of 0.46 ounces/ton gold. (Laanela, 1987). The Lacy Stokes claim group covers much of the northern half of the present Lacey Block.

Claim 516540 was prospected in 2005. Limestone of the Mt. Mark Formation was mapped. The limestone was sampled for further examination for industrial chemical applications. The results were not reported. (McLelland, 2005). Claim 516540 lies at the northern end of the Lacey Block within current tenures 974273, 975678 and 977552.

The present property owner completed two recent exploration programs on the Egghill area (current tenures 856052 and 948629). In 2002, 48 soil samples were taken at 30 metre interval. No anomalous halos were detected (Saulnier, 2002). Mr. Saulnier took 8 mobile Metal Ion soil samples in 2007 covering 1000 metres of line. No anomalous halos were detected (Saulnier, 2007).

The present property owner completed four small grids totaling 26 soil samples over the centre of the Lacey Block in 2010. He also took 4 rocks. No anomalous halos were detected (Saulnier, 2011).

Limestone Block

Western Geophysical Aero Data Ltd. conducted approximately 350 km of airborne VLF-EM and magnetometer survey on behalf of Jan Resources Ltd, Oliver Resources Ltd. and McQuillan Gold Ltd. over the Mt. McQuillan project area in 1981. This included the area underlying the present Limestone claims. The survey found a major electromagnetic anomaly along the western slope of Limestone Mountain. (Pezzot and White, 1981).

Nexus Resources Corporation conducted a soil geochemistry survey over the April claim which includes the southwestern portion of the present Limestone Block in 1984. The survey consisted of 203 grid soil samples at 50 metre sample spacings for 10.3 line kilometres. The results indicated the presence of a zone of weakly anomalous Cu values with a few coincident higher Au and Ag values. (Neale and Hawkins, 1984).

Nexus followed the 1984 results with a mapping and sampling program in 1986. An additional 70 soil samples were taken over 3.3 km of newly established grid in the area of the 1984 anomalies. A total of 10 rocks were collected to be analyzed for Au and by 30-element I.C.P. Four of the rock samples were also subjected to whole rock analysis. Reconnaissance mapping was carried out over the northwestern and southeastern portions of the property. Sampling in the northwest portion of the April claim located quartz carbonate veining carrying anomalous values of 2.0 ppm Cd, 50 ppm Ga, 3667 ppm Mn, and 8 ppm Pb. Soil samples anomalous in a similar suite of elements uphill from the rock sample location may be an indication of an extension to the anomalous vein. Soil sampling also located a Cu anomaly about 500 m long by 100 m wide, as well as smaller, but possibly significant, Zn, Cr, Mn, and Ag anomalies. The Cu anomaly parallels an inferred fault structure and is open to the east. (Neale and Hawkins, 1986).

Nexus completed an additional small program in 1987: 11 rock samples, 28 soil samples from 1.3 line kilometres and 8 silt samples. One of the rock samples returned 350 ppb Au and 2203 ppm Cu and a second sample returned 120 ppb Au and 4294 ppm Cu. The silt sampling indicated elevated gold and lead in selected samples and elevated copper in all samples. (Getsinger, 1987).

The present property owner completed reconnaissance sampling of the Limestone Group in 2011. He took 13 silt samples, 5 rock samples and 2 soil samples. Two silt samples from adjacent creeks on the north side of Limestone Mountain returned values of 40 ppb Au and 80 ppb Au respectively. (Saulnier, 2011b).

GEOLOGICAL SETTING
(Summarized from Massey and Friday, 1989)

The Lacey properties lie within the Alberni – Nanaimo Lakes area at the northwestern end of the Cowichan Uplift, one of a series of major geanticlines constituting the structural fabric of southern Vancouver Island. The area lies within the Wrangellia teranne, which on Vancouver Island comprises three thick, volcano-sedimentary cycles: the Paleozoic Sicker Group, the Upper Triassic Vancouver Group and the Jurassic Bonanza Group. They are overlapped by the late Cretaceous sediments of the Nanaimo Group.

The oldest rocks in the area belong to the Paleozoic Sicker Group which contains volcanic and sedimentary units ranging in age from Middle Devonian(?) to Early Permian. These are intruded by mafic sills and dykes coeval with overlying basaltic volcanics of the Late Triassic Karmutsen Formation. Micritic limestone of the Quatsino Formation and volcanic rocks of the Early Jurassic Bonanza Group overlie the Karmutsen Formation. All these sequences have been subsequently intruded by granodioritic stocks of the Middle Jurassic Island intrusions. Late Cretaceous sediments of the Nanaimo Group lie unconformably on the older sequences and are the principal host to Late(?) Eocene porphyry sills.

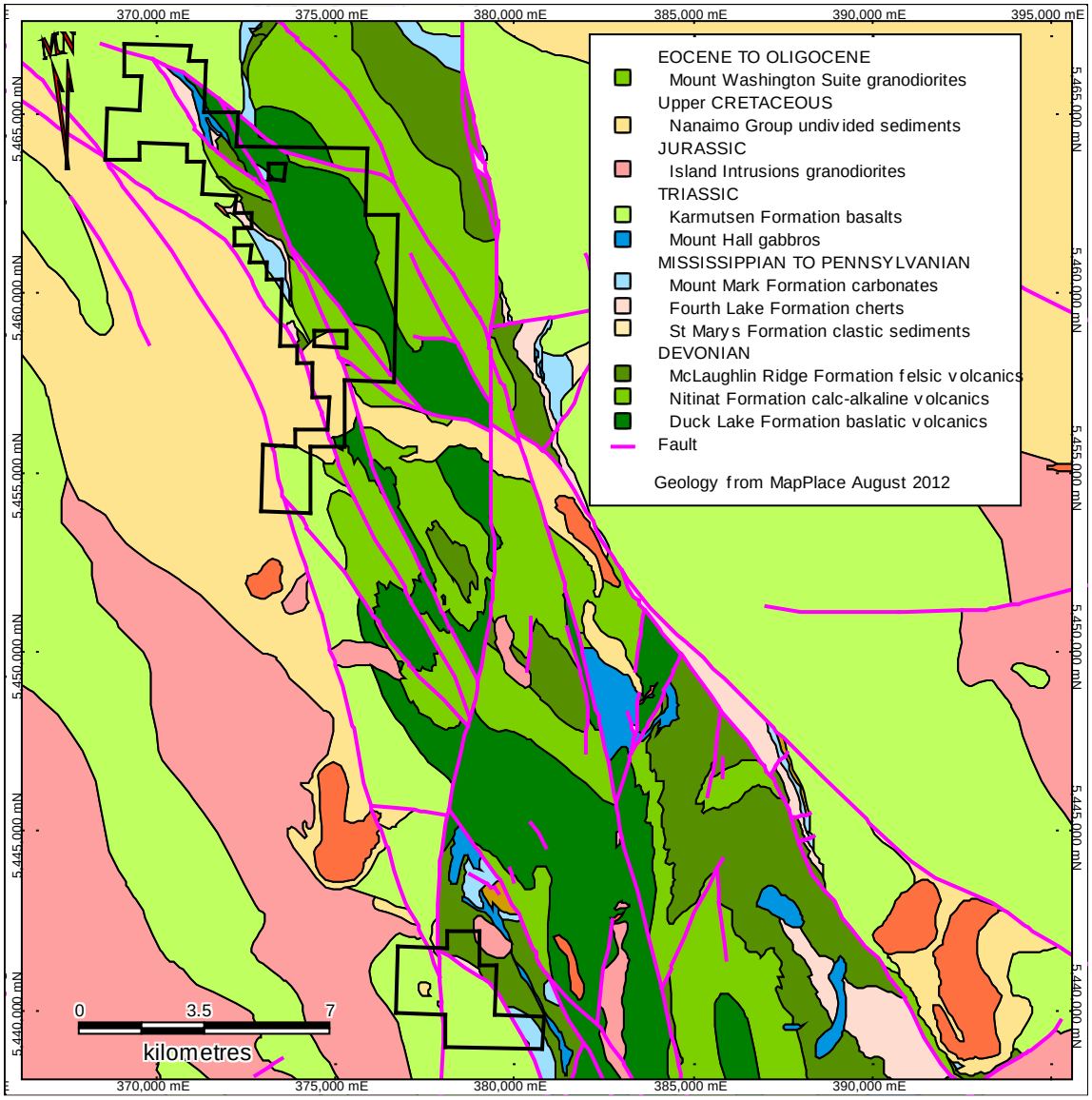
Geology of the Lacey Properties

The Lacey Block has not been mapped recently. The last mapping was confined to the majority of the Lacey Block lying north of Highway 4 and was completed by Laanela (1987). The author has updated the actual units to align with the updated mapping completed by Massey and Findlay (1989).

Laanela (1987) found the claims are underlain predominantly by northwest trending volcanic-volcaniclastic-sedimentary rocks of the Paleozoic Sicker Group, except for the margins of the property where the younger mafic volcanics of the Vancouver Group and sediments of the Nanaimo Group occur. The Sicker Group rocks form a "jigsaw puzzle" of fault blocks and display a very complex stratigraphy with numerous intercalations and rapid latera1 facies changes. The rocks are commonly schistose in the vicinity of faults with associated carbonatization and silicification. Elsewhere they are relatively fresh with internal textures and fossils preserved. The stratigraphic nomenclature of the day was found to be inadequate for mapping at this scale, so a strictly lithological format was adopted. Attempts were made to place each lithological unit within this stratigraphic succession. The units are described in roughly ascending order.

Unit 1 (oldest?) consists of basaltic to andesitic volcanic and volcaniclastic rocks which occur along the easternmost side of the property, and as a few thin members higher up in the sequence. Pillowed flow textures are common along with quartz and calcite filled amygdules and plagioclase/hornblende porphyritic textures. Clastic rocks are subordinate and range from fine tuffs and reworked tuffs, to coarse agglomeratic and pillow breccia horizons. Lenses of jasper-magnetite iron formation are present in two locations within this unit. This unit is the Duck Lake Formation of Massey and Findlay (1989) as shown on Figure 3.

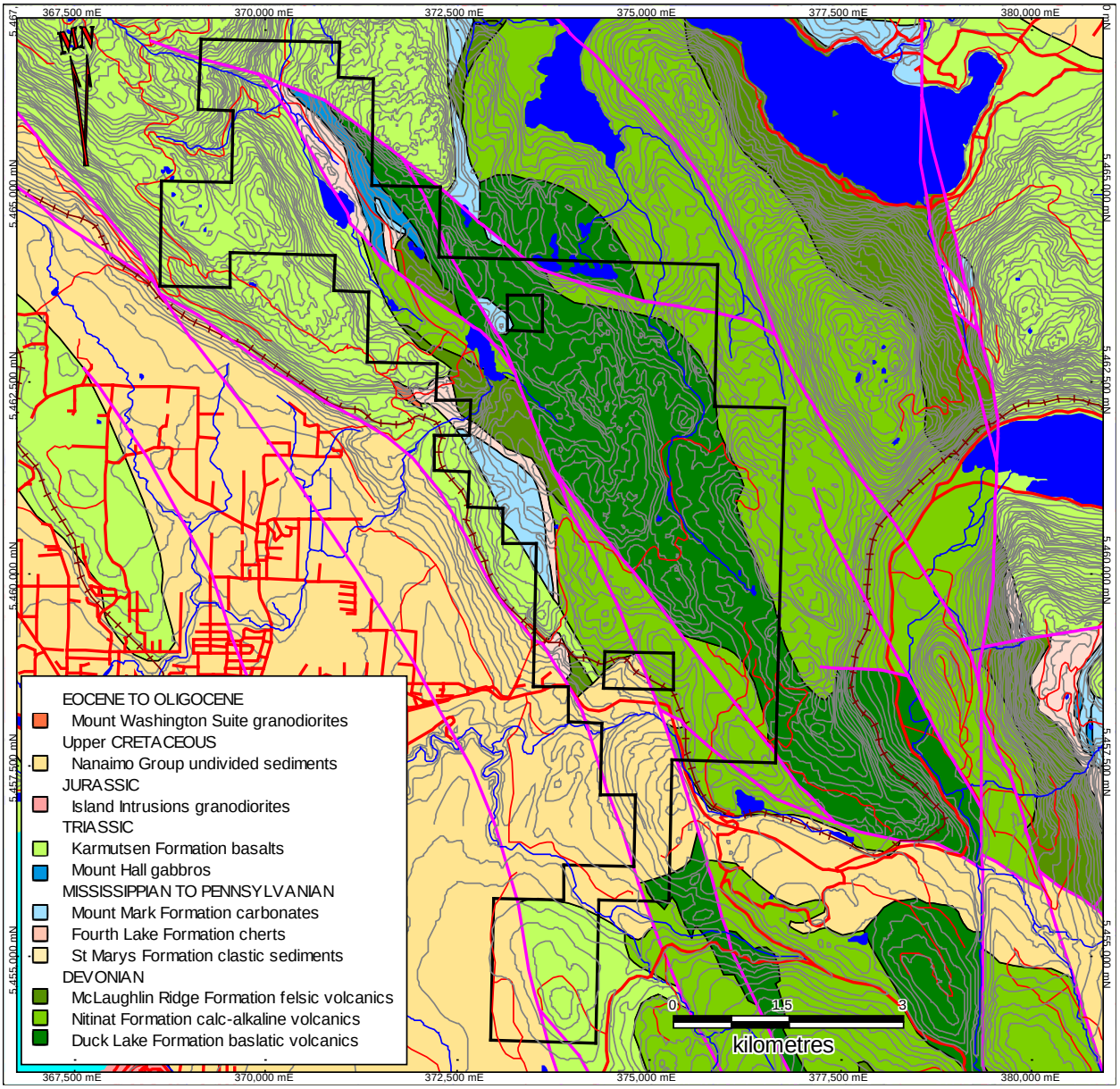
Unit 2 on the property is the most widespread and also the most complex, displaying discontinuous individual lithologic units, and the most widespread facies changes. Lithologies include massive volcaniclastic "melange" containing clasts and blocks (up to lm) of all types of volcanic rocks and chert in a poorly sorted wacke-like matrix. This grades laterally into thickly bedded mafic to intermediate lapilli tuff, chert, and chert breccia (containing rip-up clasts). Chemical sedimentary rocks are subordinate and include grey to green chert and lenses of pale red jasperoidal and manganiferous chert (especially north of Lacy Lake). Hematization has locally affected Unit 2, and to a lesser degree Unit 1, imparting to the rocks a streaky and patchy maroon coloured tinge. This alteration is believed to be diagenetic and unrelated to later faulting and fluid movement. This unit is the Nitinat Formation of Massey and Findlay (1989) as shown on Figure 3, though it appears to include some of the Fourth Lake Formation cherts.



UTM NAD 83 Zone 10

Figure 3. Regional Geology

Unit 3 consists of agglomeratic rhyolite flows and felsic tuff, and is relatively uncommon on the property, occurring in the southeast as a single lens up to 150 metres thick. It is quartz and feldspar porphyritic, with minor sericitic tuffaceous beds, and contains numerous white pegmatitic quartz patches and veins. Agglomeratic phases contain clasts 5-15 cm in size, which are sub-rounded and display partially resorbed margins within a fine grained siliceous matrix. Finely disseminated pyrite is present in the matrix and in the clasts. This unit is the McLaughlin Ridge Formation of Massey and Findlay (1989) as shown on Figure 3, though this unit lies outside of the present property boundaries.



UTM NAD 83 Zone 10

Figure 4. Lacey Block Geology

Unit 4 consists of a very distinctive white to green rhythmically laminated cherty tuff which occurs as lenses and interbeds mainly within Unit 2, and possibly as a lateral equivalent of Unit 3. This unit is the Fourth Lake Formation of Massey and Findlay (1989) as shown on Figure 3.

Unit 5 comprises dacitic to andesitic flows which underlie a large area in the southern portion of the map-area. These flows are plagioclase and hornblende porphyritic, with phenocrysts up to 5 mm. Minor tuffaceous, cherty, and fragmental beds are also present. This unit is also part of the Nitinat Formation of Massey and Findlay (1989) as shown on Figure 3.

Unit 6 is comprised of distinctive calcareous sediments consisting predominantly of thickly bedded crinoidal limestone, with lesser dark grey to black chert and argillite. Minor chloritic tuffaceous material is also present locally, as are weakly jasperoidal chert beds near the (?) paraconformable contact with overlying Vancouver Group volcanics. Caves, sinkholes and underground streams were encountered while mapping the limy members of this unit. Also, in the vicinity of diabase-gabbro intrusions contact metamorphism has converted the limestone to a cream-coloured marble, which has been quarried economically in the past on the property. This unit is the Mount Mark Formation of Massey and Findlay (1989) as shown on Figure 3

Unit 7 includes diabase and gabbro intrusions which are restricted to Units 2 through *6.* The intrusions occur as dyke swarms, sills, and large bodies, and possibly are coeval with Vancouver Group-Karmutsen Formation volcanism. On the Lacy-Stokes property these intrusions are common at approximately this stratigraphic level, but also occur lower in Unit 2 as dyke swarms. These dykes display slightly elevated background base and precious metal levels, along with a distinctive high magnetic signature due to the presence of accessory sulphides and magnetite. These are the Mount Hall gabbros or Massey and Findlay (1989) as shown in Figure 3.

Unit 8 consists of prominently outcropping massive basaltic flows, along with lesser andesite and intrusive equivalents. This unit correlates with the Triassic Vancouver Group Karmutsen Formation and occupies the northern and western margins of the property.

Unit 9 (youngest) is composed of the Cretaceous Nanaimo Group sediments consisting of mainly soft-weathering conglomerate, shale and greywacke, occupying the low-lying areas at the southernmost edge of the property.

The Limestone Block has not been mapped. The geology is taken from the MapPlace geology which is the mapping of Massey and Findlay (1989).

The oldest rocks are the Devonian McLaughlin Ridge felsic volcanics. This unit consists of thickly bedded tuffite and lithic tuffite, breccia, tuff, feldspar and quartz-feldspar crystal tuff, lapilli tuff, rhyolite, dacite, laminated tuff, jasper, chert, hematite-chert iron formation. These rocks are locally overlain by ribbon chert, cherty tuff, graphitic argillite, thinly bedded intercalated sandstone-siltstone-argillite, volcanic sandstone and conglomerate, interbedded argillite and crinoidal limestone, massive and pillowed basalt with intercalated cherty sediments of the Mississippian to Pennsylvanian Fourth Lake Formation and massive crinoidal limestone, bedded calcirudite and calcarenite, chert, cherty argillite and siltstone, marble of the Mount Mark Formation. These units underlie the eastern extremities of the claim block.

The majority of the property is underlain by Triassic Karmutsen Formation basalt pillowed flows, pillow breccia, hyaloclastite tuff and breccia, massive amygdaloidal flows, minor tuffs, interflow sediment and limestone lenses.

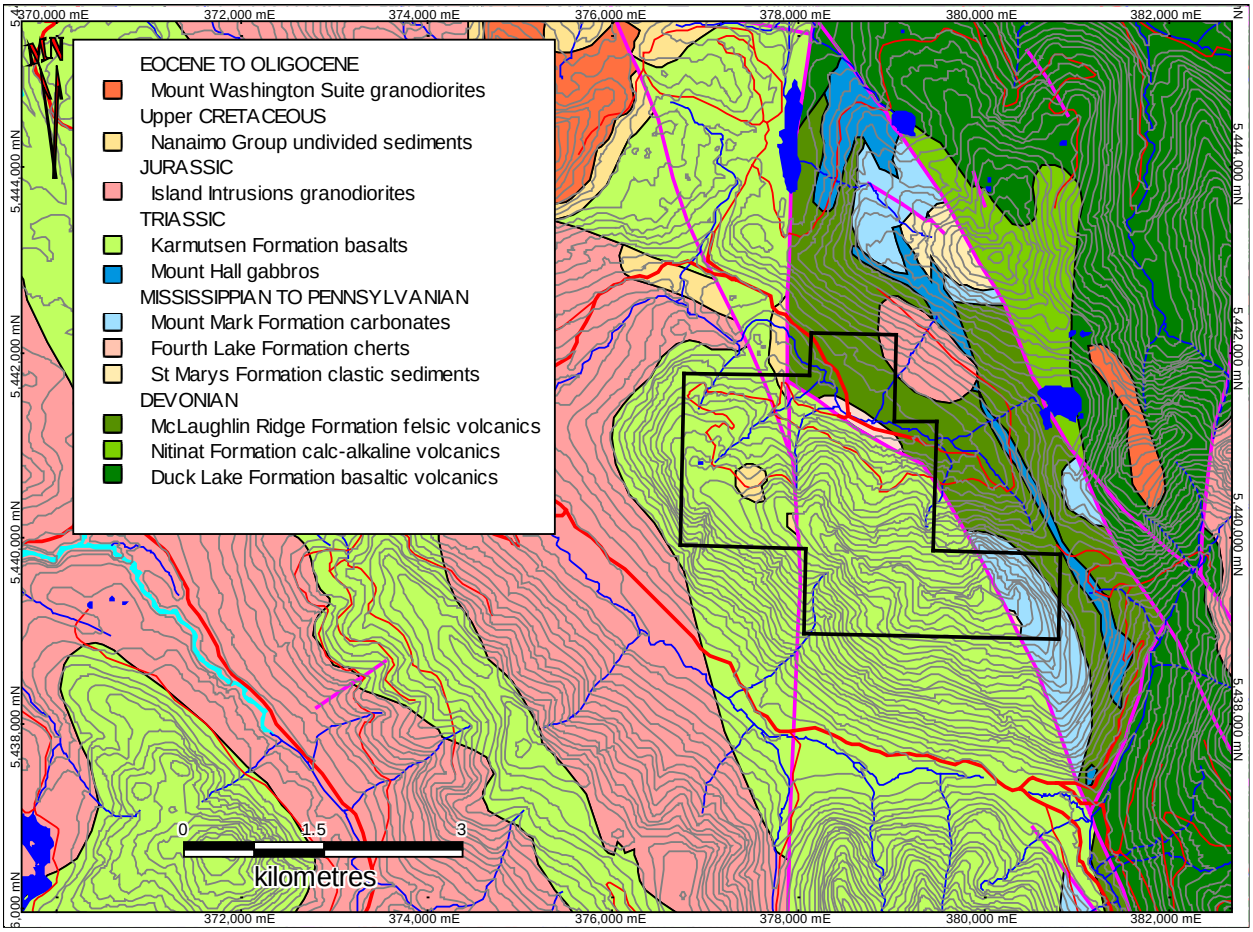


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Figure 5. Limestone Block Geology

The western edge of a small Jurassic Island Intrusion granodiorite, quartz diorite, quartz monzonite, diorite, agmatite, feldspar porphyry, minor gabbro and aplite lies in the extreme northeastern corner of the property. Small outliers of Cretaceous Nanaimo Group boulder, cobble and pebble conglomerate, coarse to fine sandstone, siltstone, shale and coal lie over the western half of the Limestone claim block.

Mineralization

There is presently no known bedrock mineralization on the Lacey Property. There are, however, three areas of anomalous gold-in-soil and/or copper-in-soil within the property boundaries: Lacey NE Au Cu area, Lacey Central Cu area and Limestone area as shown on Figure 6.

The Lacey NE Au Cu area consists of two sections of continuous anomalous gold in soil and copper in soil over a 1500 metre section of logging road in this area.

The Lacey Central Cu area is underlain by Sicker Group Nitinat Formation calc alkaline volcanics. An area of semi-continuous copper in soil values 750 long along a logging road was noted in this area. The highest gold value on the Lacey block also came from this area.

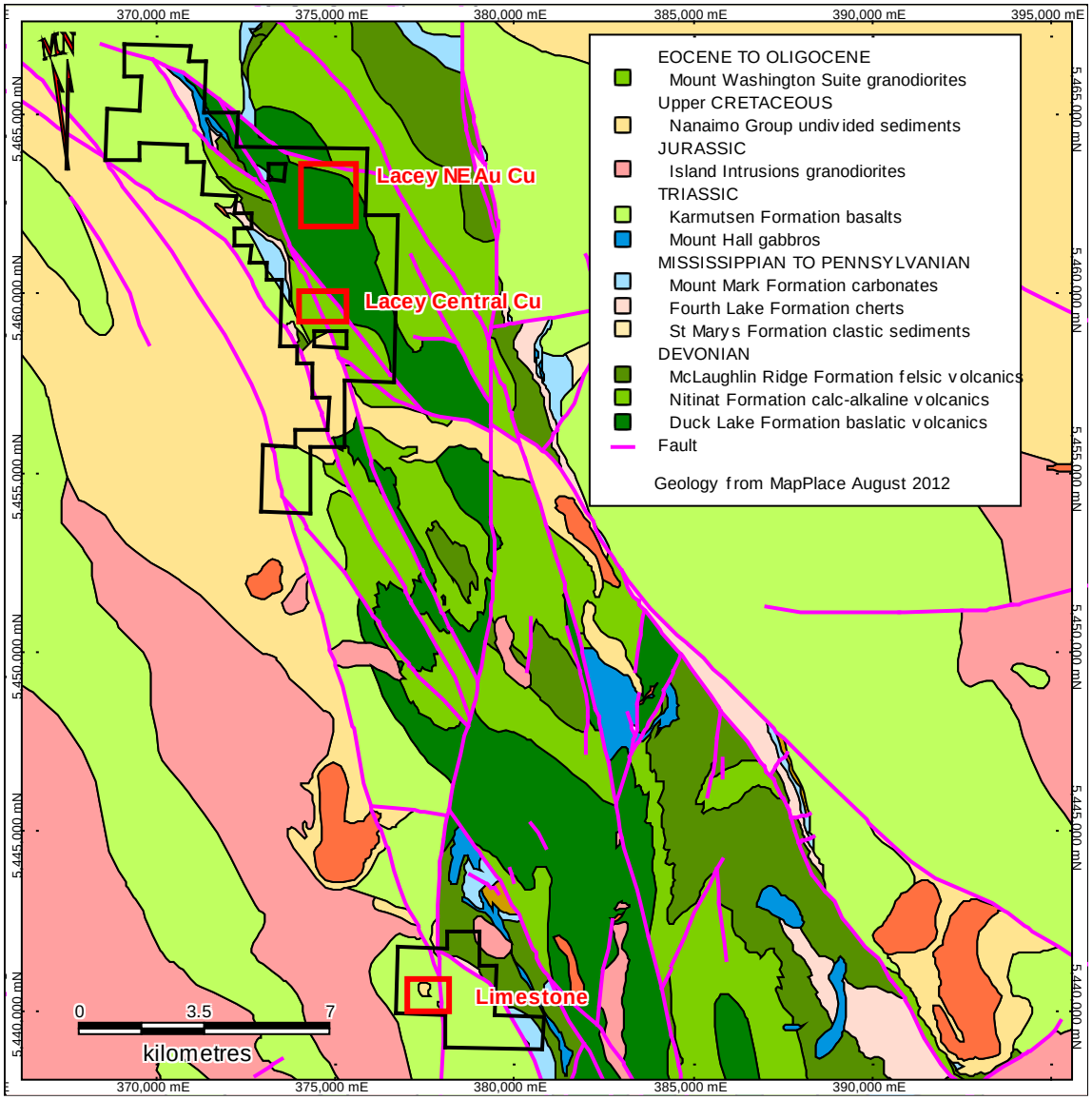

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Figure 6. Mineralization

The limited area of the Limestone block tested located a zone of continuous copper in soil and semi-continuous gold in soil. Two anomalous rock samples in excess of 100 ppb Au were also obtained on the Limestone block.

DEPOSIT TYPES

The Lacey Project is being explored for polymetallic quartz veins and porphyry Cu – Mo deposits. The following description of polymetallic quartz veins is condensed from British Columbia Ore Deposit Models (Lefebure and Church, 1996).

Polymetallic Quartz Veins

Polymetallic veins occur in virtually all tectonic settings except oceanic, including continental margins, island arcs, continental volcanics and cratonic sequences. They are usually divided into metasediment hosted veins and igneous hosted veins. The polymetallic veins at Maroon would be classified as metasediment hosted. Metasediment hosted veins are emplaced along faults and fractures in sedimentary basins dominated by clastic rocks that have been deformed, metamorphosed and intruded by igneous rocks. Veins postdate deformation and metamorphism. Many veins are associated with dikes following the same structures. The age of these veins is Proterozic or younger; though mainly Cretaceous to Tertiary in British Columbia.

Polymetallic veins are typically steeply dipping, narrow, tabular or splayed. They commonly occur as sets of parallel and offset veins. Individual veins vary from centimetres up to more than 3 metres wide and can be followed from a few hundred to more than 1000 metres in length and depth. Veins may widen to tens of metres in stockwork zones. Compound veins with a complex paragenetic sequence are common. The veins display a wide variety of textures, including cockade texture, colloform banding and crustifications and locally druzy. Veins may grade into broad zones of stockwork or breccia. Coarse grain sulphides occur as patches and pods, and fine grain disseminations are confined to veins.

Regional faults, fault sets and fractures are an important ore control, however, veins are typically associated with second order structures. Significant polymetallic veins are often restricted to competent lithologies. Dikes are often emplaced along the same faults and in some camps are believed to be roughly contemporaneous with mineralization. Some polymetallic veins are found surrounding intrusions with porphyry deposits or prospects.

Metasediment hosted polymetallic veins are generally comprised of carbonates (most commonly siderite with minor dolomite, ankerite and calcite) and/or quartz, with lesser barite, fluorite, magnetite and bitumen.

Mineralization within the veins consists of: galena, sphalerite, tetrahedrite-tennantite, with lesser sulphosalts including pyrargyrite, stephanite, bournonite and acanthite, native silver, chalcopyrite, pyrite, arsenopyrite and stibnite. Silver minerals often occur as inclusions in galena. Some deposits include native gold and electrum. Rhythmic compositional banding is sometimes present in sphalerite. Some veins contain more chalcopyrite and gold at depth and Au grades are normally low for the amount of sulphides present.

Wall rock alteration is typically limited in extent (measured in metres or less). Metasediments typically display sericitization, silicification and pyritization. Thin veining of siderite or ankerite may be locally developed adjacent to veins.

Black manganese oxide stains are common weathering products and can be used as guide for prospecting. Polymetallic veins are generally strongly structurally controlled and commonly occur in clusters, therefore, the best place to explore for new veins is in the area of known veins. Geochemically, there are generally elevated levels of Zn, Pb, Ag, Mn, Cu, Ba and As associated with the veins. Geophysically, polymetallic veins may have elongate zones of low magnetic response and/or electromagnetic, self potential or induced polarization anomalies related to ore zones.

Individual vein systems range from several hundred to several million tonnes grading from 5 to 1500 g/t Ag, 0.5 to 20% Pb and 0.5 to 8% Zn. Average grades are strongly influenced by the minimum size of deposit included in the population. For B.C. deposits larger than 20,000 t the average size is 161,000 t with grades of 304 g/t Ag, 3.47 % Pb and 2.66 % Zn. Copper and gold are reported in less than half the occurrences, with average grades of 0.09 % Cu and 4 g/t Au.

Polymetallic veins usually support small to medium-size underground mines. The mineralization may contain arsenic which typically reduces smelting credits.

British Columbia examples of metasediment hosted polymetallic vein deposits include: the Slocan-New Denver-Ainsworth district, the Trout Lake Camp and St. Eugene Mine. Other examples are the Mayo District in the Yukon and the Couer d'Alene District in Idaho.

EXPLORATION

The 2012 Phase I exploration program consisted of road soil sampling and rock sampling. A total of 162 soils and 58 rocks were taken, broken down as follows: Lacey Block 43 rocks and 147 soils; Limestone Block 15 rocks and 15 soils.

This program was a first pass evaluation through the claim blocks. Interesting areas were sampled by road soil sampling, with samples taken from the high cut bank at intervals varying from 10 to 50 metres. Rocks were grab samples of alteration and limited mineralization.

The road soil sampling was confined to areas of alteration with samples spaced at 10 metres to 50 metres along the road. The sample locations were measured hip chain and recorded as waypoints on Garmin GPS units in the NAD83 datum. Soil bags and flagging were pre-numbered the day before. At each sample location a 500 to 1000 gram sample of the soil from the "B" horizon was taken from the high bank road cut and placed in the corresponding soil bag. The data was downloaded nightly to computers.

2012 rock samples from 1 to 3 kilograms for float samples and 2.5 to 8 kilograms for bedrock chip samples were collected. Float samples consisted of chips taken from one or two larger cobbles, or of several smaller fragments collected from an area of a few square metres. Individual samples were placed in labeled plastic bags, with an assay ticket also placed in the same bag. The sample locations were marked in the field with pink flagging and labeled Tyvex tags. UTM coordinates, in the map datum NAD 83, were recorded with a handheld Global Positioning System (GPS) unit.

The purpose of the first pass surveys was to attempt to locate mineralization on the Lacey Property. At this stage of the exploration program the sampling must be considered representative but biased as the sampling was confined to areas of alteration.

The sampling on the Lacey block was spread throughout the claim block while the sampling on the Limestone block was confined to the western portion of the claim block.

One area of significant gold and copper in soil (NE Au Cu area) and one area of significant copper in soil (Central Cu area) were located on the Lacey block. One area of significant gold in soil with a couple of accompanying rock samples were found on the Limestone block. This area should be considered for follow. In addition, one float rock sample on Lacey returned values in excess of 1% Pb, 0.32% Zn and 0.09% Cu. This area should also be followed up.

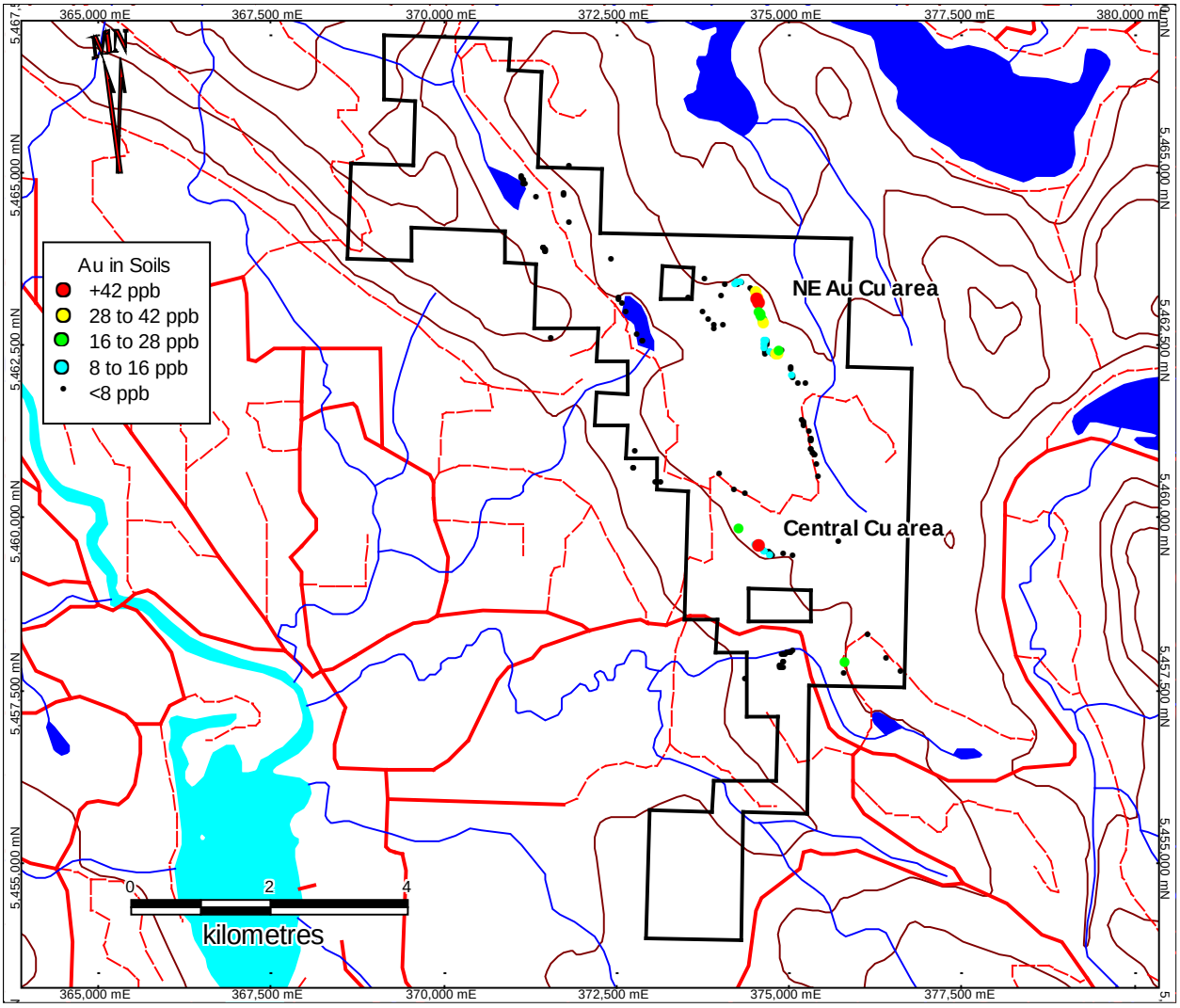

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Figure7. Lacey Block Gold Soil Anomalies

Lacey Block

Two areas of anomalous gold and copper in soil were located along a 1.5 kilometre section of a logging road in the northeast section of the Lacey Block (Figures 7, 8 and 9). The rocks are basalts of the Sicker Group Duck Lake Formation. Iron carbonate alteration was noted in the basalts and some local iron carbonate shears and fractures. The gold in soil remains unexplained.

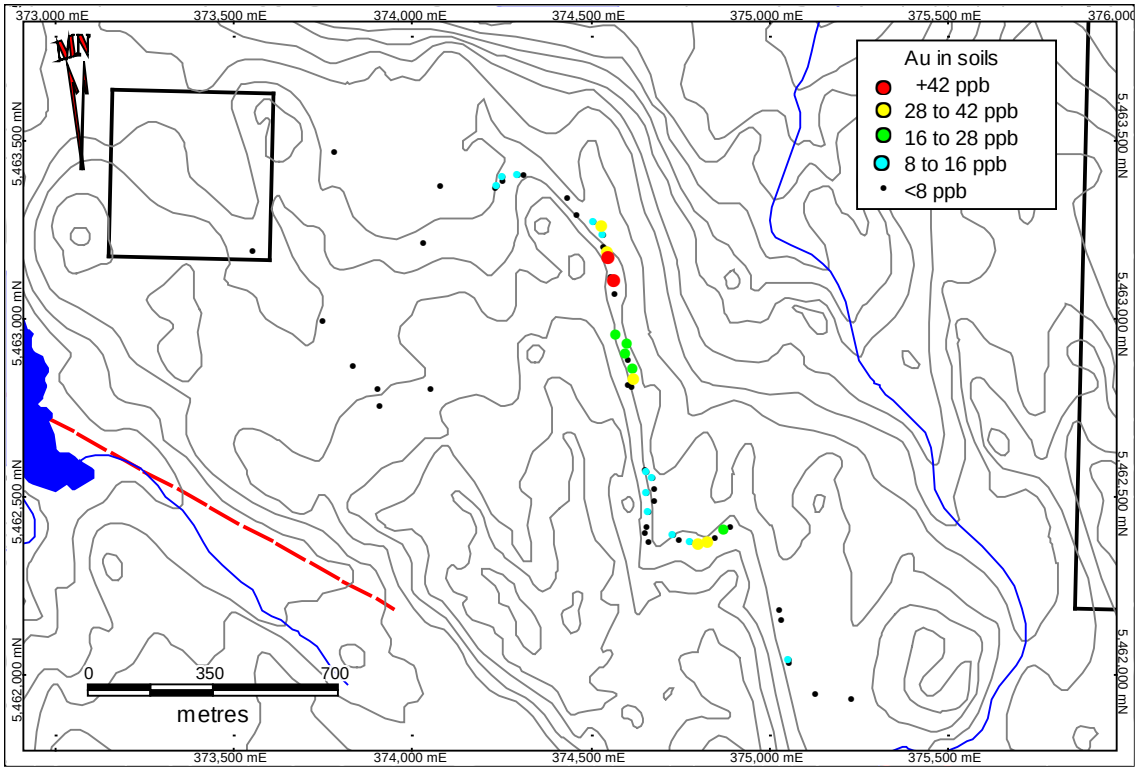

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Figure 8. Lacey Block NE Gold Soil Anomaly

Table 2. Lacey NE Au Cu Area Soil Values

Sample	ppm Cu	ppb Au	Sample	ppm Cu	ppb Au	Sample	ppm Cu	ppb Au
L12EBS28	72.2	3.9	L12EBS42	96.9	5.8	L12EBS57	174.1	13.3
L12EBS29	231.2	15.9	L12EBS43	241	188.2	L12EBS58	184.5	6.3
L12EBS30	70.2	3.1	L12EBS44	65.8	4.7	L12EBS59	96	12.1
L12EBS31	277.7	14	L12EBS45	89.7	25.9	L12EBS60	82.1	3.5
L12EBS32	98.8	8	L12EBS46	88.5	18.3	L12EBS61	121	7
L12EBS33	36.5	6.7	L12EBS47	67.8	24.4	L12EBS62	397.7	6.8
L12EBS34	77.4	7.1	L12EBS48	20.7	6.3	L12EBS63	96.8	10.8
L12EBS35	64.5	5.9	L12EBS49	114.1	27.7	L12EBS64	79.2	5.6
L12EBS36	75.3	10.2	L12EBS50	107.4	29.2	L12EBS65	110.9	12
L12EBS37	251.8	29.4	L12EBS51	165	5.3	L12EBS66	91.7	32.8
L12EBS38	81	15	L12EBS52	45.6	4.3	L12EBS67	928.3	39.9
L12EBS39	69.8	4.8	L12EBS53	106.4	6.5	L12EBS68	60.5	4.1
L12EBS40	56.4	33.5	L12EBS54	92.2	10.4	L12EBS69	50.1	27.7
L12EBS41	303.2	64.8	L12EBS55	74.2	9	L12EBS70	307	4
			L12EBS56	117	3.4			

The string of gold and copper soil values is shown in Table 2. There are two good sections of continuous anomalous gold values from L12EBS037 to L12EBS050 and from L12EBS063 to L12EBS069. The sections that are anomalous in copper correlate somewhat well with the gold though they are longer. Copper sections of continuous anomalous values are: L12EBS029 to L12EBS031, L12EBS037 to L12EBS043, L12EBS049 to L12EBS058 and L12EBS062 to L12EBS070.

The Lacey NE Au Cu area should be followed up with a small soil grid.

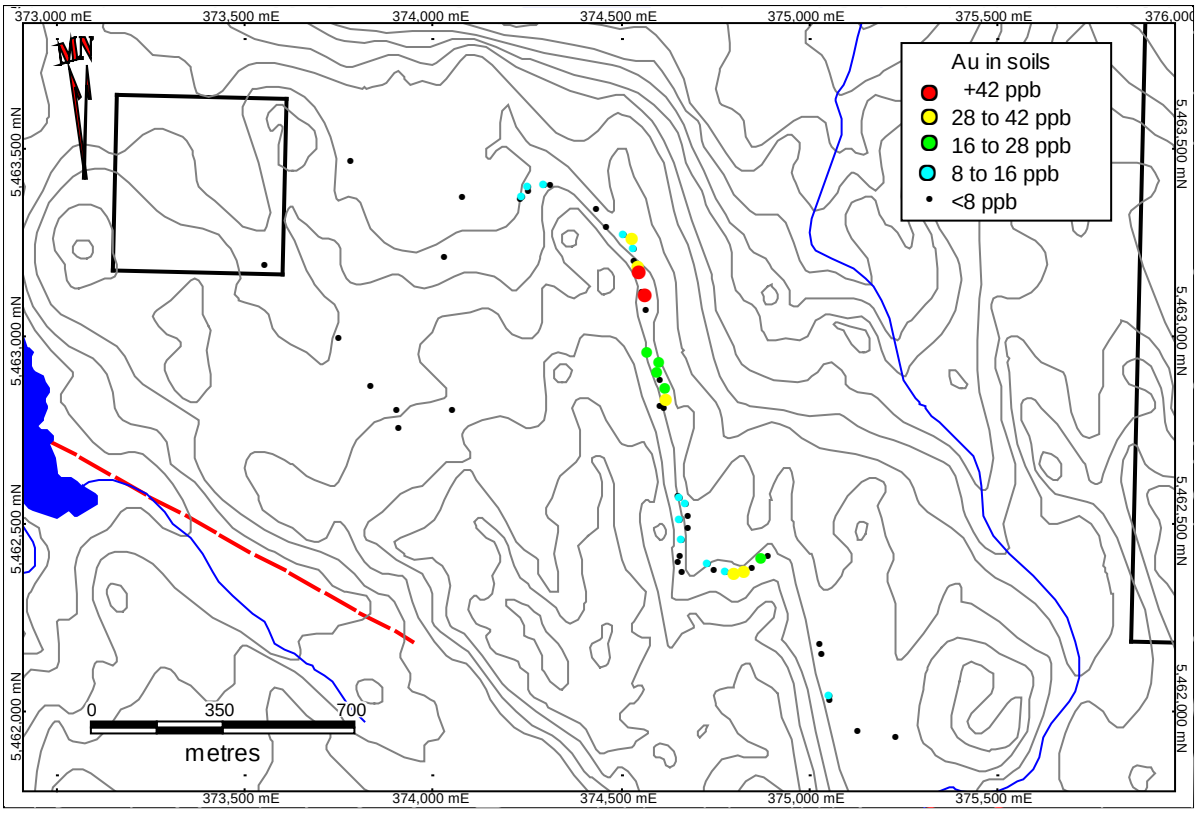

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Figure 9. Lacey Block NE Copper Soil Anomaly

The copper soil geochemistry located a second smaller area of semi-continuous anomalous values, the Central Cu area, on the Lacey property, running from L12EBS136 to L12EBS147, the last sample taken. The highest gold value, 705 ppb, came from this section. (Figure 10; Table 3).

Table 3. Lacey Central Cu Area Soil Values

Sample	ppm Cu	ppb Au		Sample	ppm Cu	ppb Au		Sample	ppm Cu	ppb Au
L12EBS133	53.9	12.4		L12EBS138	66.6	3.6		L12EBS143	72.8	3.8
L12EBS134	65.5	8.8		L12EBS139	509.1	10.4		L12EBS144	144.4	13.1
L12EBS135	51.5	3.4		L12EBS140	128.4	8.3		L12EBS145	87.9	2.5
L12EBS136	248.1	705		L12EBS141	106.6	2.2		L12EBS146	140.6	4.9
L12EBS137	103.5	2		L12EBS142	110.1	3		L12EBS147	119.7	3.1

This area is underlain by Sicker Group Nitinat Formation calc alkaline volcanics and should also be followed up with a mini soil grid.

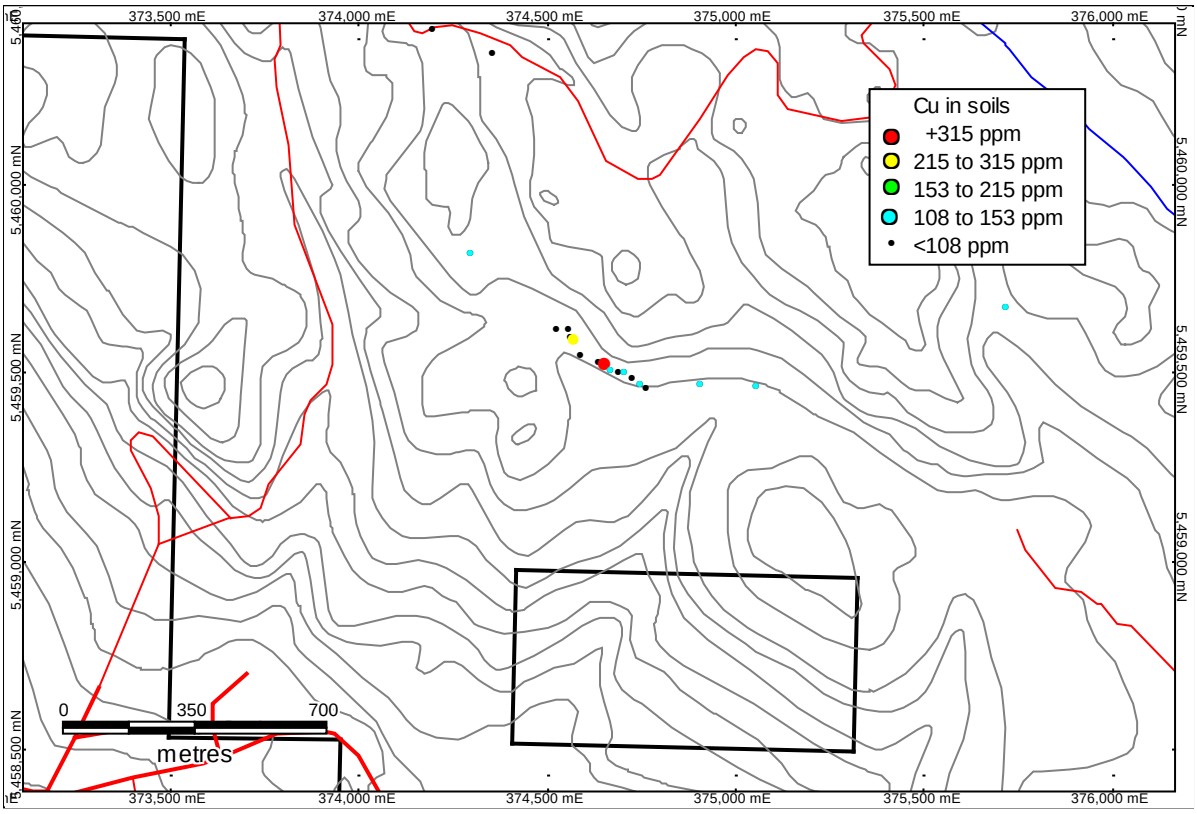

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Figure 10. Lacey Block Central Copper Soil Anomaly

Three anomalous rocks were taken on the Lacey project as shown in Table 4. Descriptions of all samples can be found in the appendix. Sample L12EBR05 was taken in the northern section of the property and consisted of one piece of altered fractured andesite float hosting a 1 cm wide arsenopyrite vein with limonite and scorodite on the vein margins. Sample L12EBR24 was taken in the NE Au Cu area and was a select grab of a 23 cm carbonate-quartz-limonite shear zone hosted in an altered volcanic. The shear zone carried 5% to 7% chalcopyrite, malachite and azurite. Sample L12EBR43 was taken the Central Cu area and consisted of a grab sample of silicic to carbonate altered volcanic with 1% disseminated to patchy pyrite both within the matrix and on fractures.

Table 4. Lacey Anomalous Rocks

Sample	Description	Type	ppm Cu	ppm Pb	ppm Zn	ppb Au
L12EBR05	Altered andesite with aspy vein	float	955.9	>10000.0	3229	276.9
L12EBR24	Shear zone in altered volcanic	select	2602.4	5.5	508	23.5
L12EBR43	Altered volcanic	grab	13.7	2.4	35	126.9

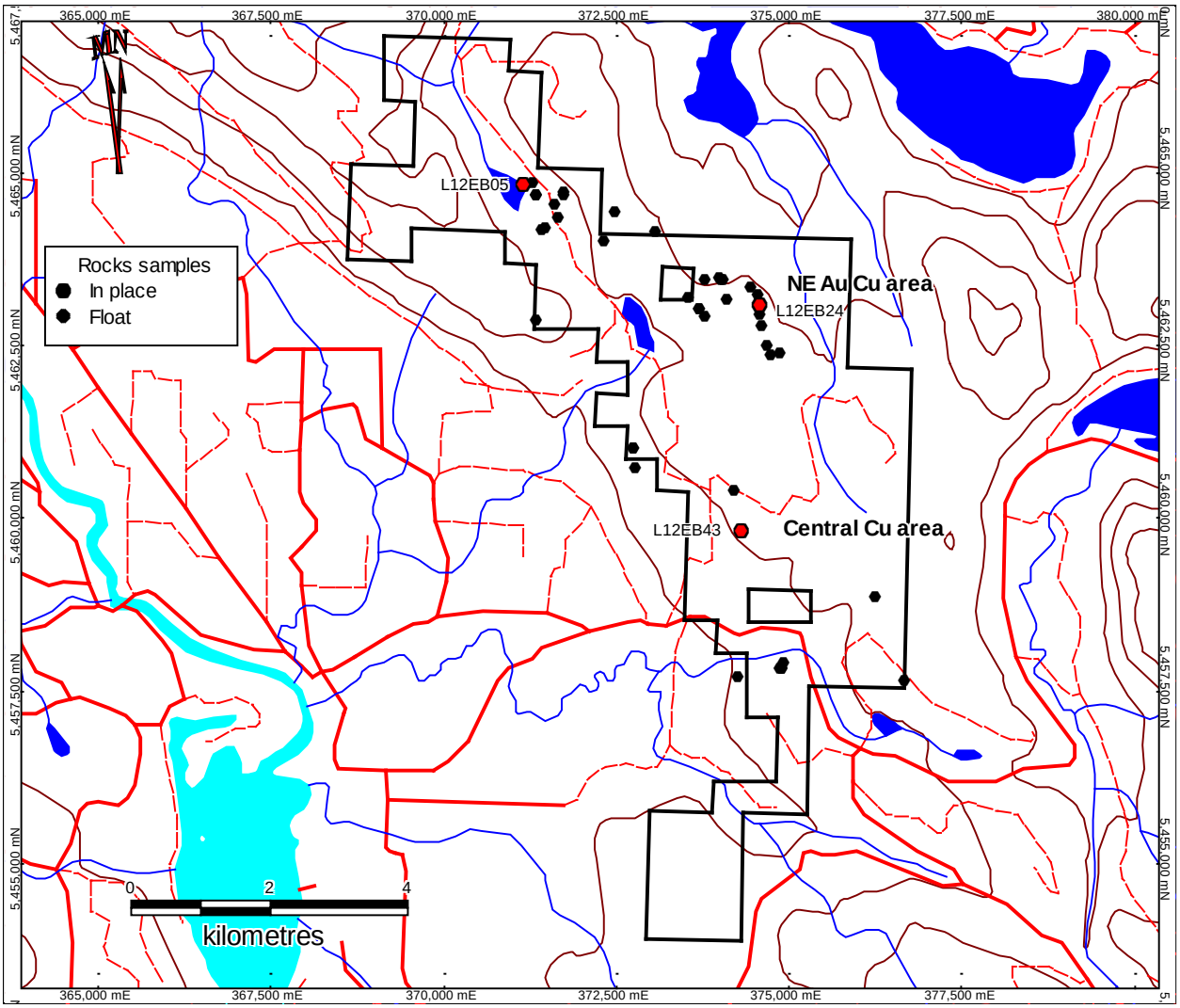

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Figure 11. Lacey Rock Samples

Limestone Block

The limited road soil sampling and rock sampling on the Limestone block was successful in locating a good anomalous zone of continuous copper in soil and semi continuous gold in soil, as shown in Tables 5 and 6 and Figures 12 and 13. The Limestone block is underlain by Buttle Lake cherts and limestones and Sicker volcaniclastics on the east and Karmutsen basalts and Nanaimo sediments to the west.

Table 5. Limestone Anomalous Au Soil Values

Sample	ppm Cu	ppb Au		Sample	ppm Cu	ppb Au		Sample	ppm Cu	ppb Au
LS12EBS01	176.9	33.3		LS12EBS06	176.2	10.3		LS12EBS11	149.9	4.5
LS12EBS02	252.3	18.2		LS12EBS07	165.6	11.8		LS12EBS12	189.5	15.9
LS12EBS03	193.4	21.1		LS12EBS08	196	171.4		LS12EBS13	188.2	152.7
LS12EBS04	162.2	3.1		LS12EBS09	184.3	5.9		LS12EBS14	170.3	14
LS12EBS05	211.3	9.2		LS12EBS10	180.3	18.5		LS12EBS15	153.3	21.3

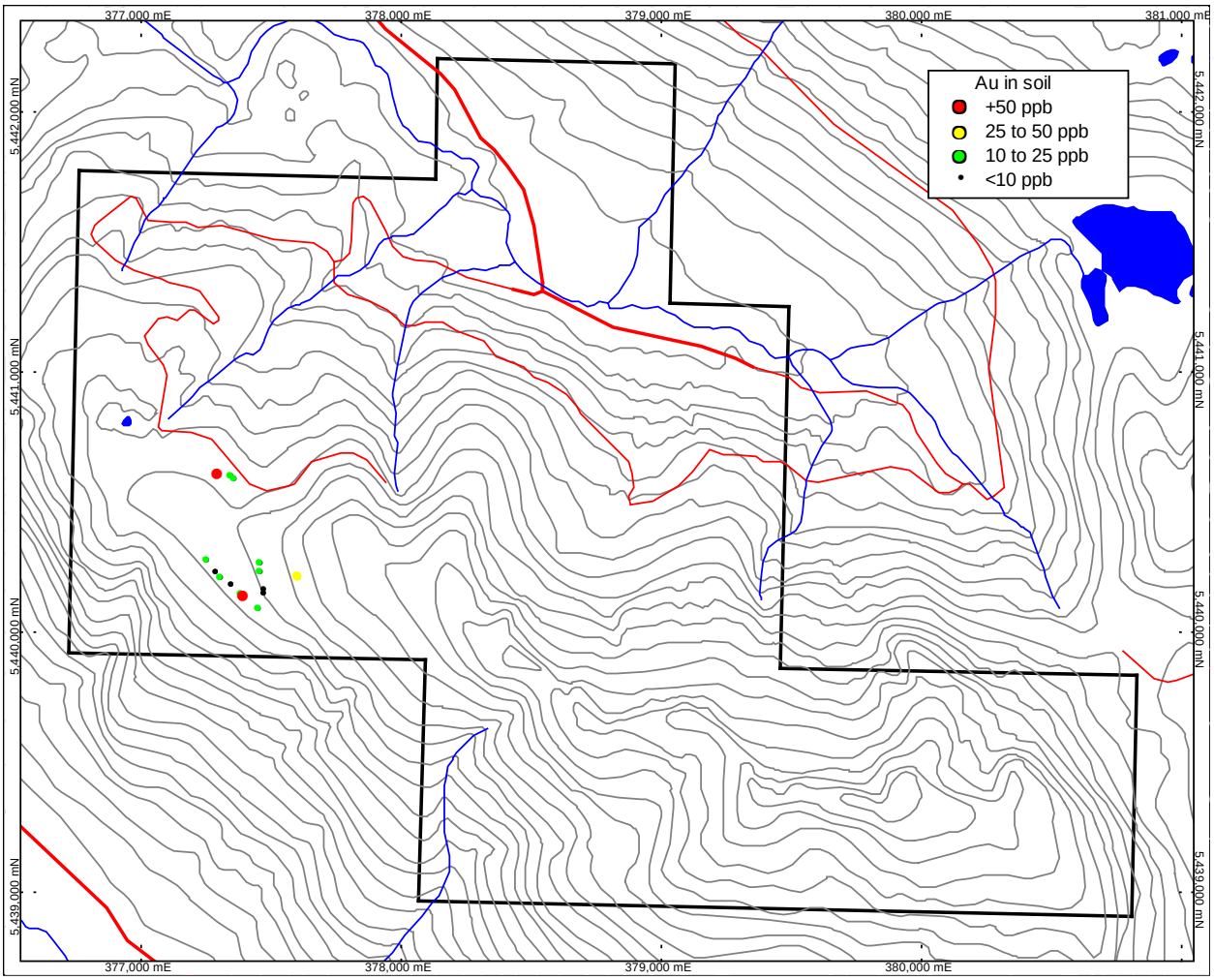

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Figure 12. Limestone Au Soil Samples

Four anomalous rocks were taken on the Limestone project as shown in Table 6 and Figure 14. Descriptions of all samples can be found in the appendix. LS12EBR01 was a piece of fractured and sheared andesite talus float with trace to 0.5% chalcopyrite and malachite in quartz and epidote veinlets. LS12EBR02 was a grab sample of pods, stringers and inclusions of semi-massive to massive fine grained pyrite in a fractured volcanic. LS12EBR04 was a piece of gossanous quartz limonite vein talus float. LS12EBR12 was a grab sample from a 0.9 metre shear zone in volcanics that carried 10%-15% disseminated to semi-massive, coarse clots of fine grained pyrite.

This area requires some follow up as well with road soiling and reconnaissance soil lines..

Table 6. Limestone Anomalous Rock Samples

Sample	Description	Type	ppm Cu	ppm Pb	ppm Zn	ppb Au
LS12EBR01	Altered andesite	float	1872.1	1.9	55	14.8
LS12EBR03	Pyrite pods in volcanic	select	251.5	58.3	36	210.8
LS12EBR04	Limonite quartz vein	float	331.1	43.4	43	303.7
LS12EBR12	Shear zone in volcanic	grab	2421.5	12.5	118	24.9

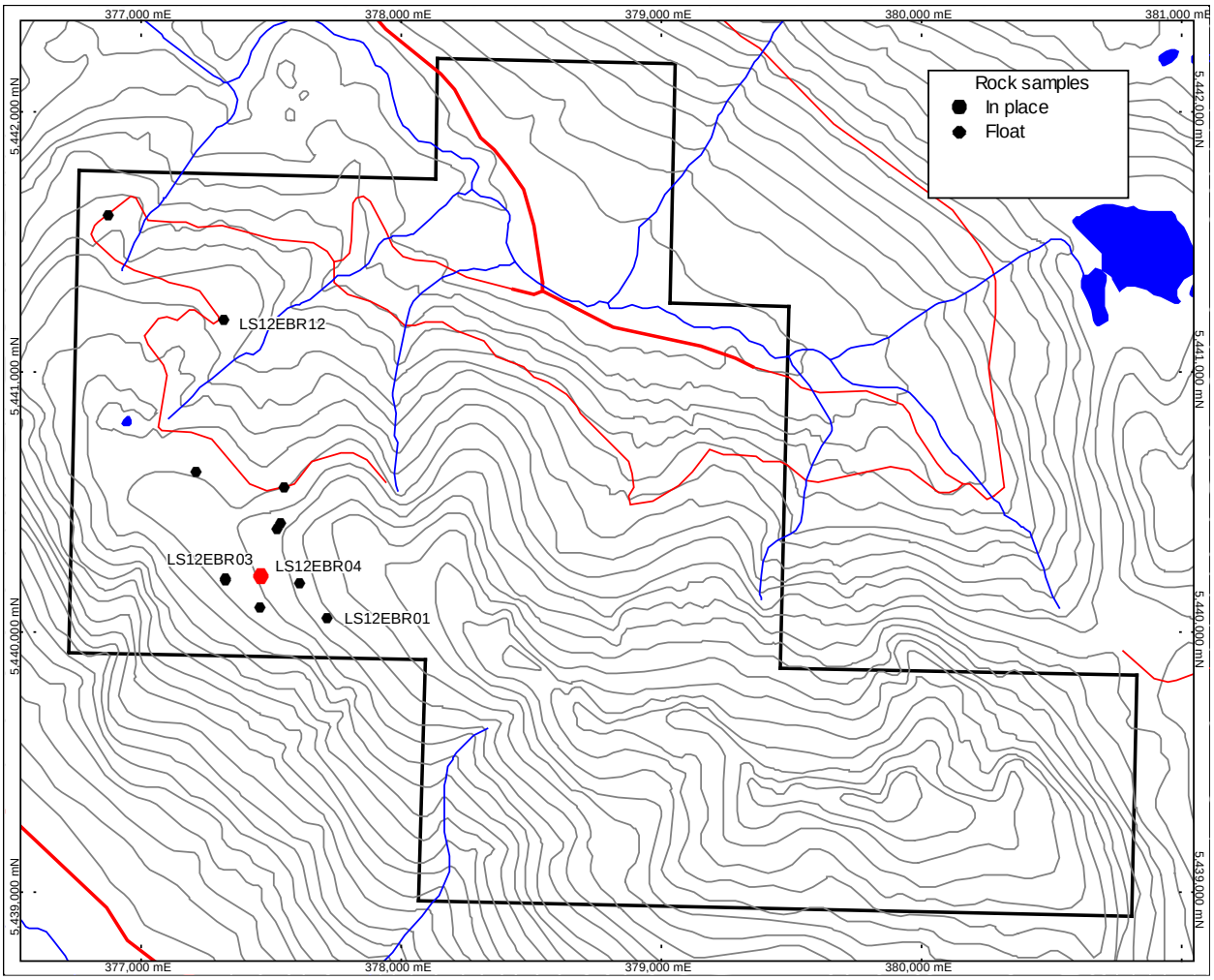

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Figure 13. Limestone Rock Samples

DRILLING

There has not been any drilling completed on the Lacey property.

SAMPLE PREPARATION, ANALYSIS AND SECURITY

At the end of the field day, all soil samples were brought back to town. They were put in sequence and placed 12 to 15 in a 13 by 18 poly bag. Three poly bags were then placed in a rice bag. One standard, sealed in a Ziploc bag, was also placed in the rice bag. The bag was then zap strapped and shipped in groups of 10 to 20 rice bags to Acme Analytical Laboratories Ltd. in Vancouver, British Columbia by Mammoth Geological Ltd. (the geological contractor) personnel. Rock samples were handled similarly, though only 10 to 12 samples were placed in the rice bags. Since these were preliminary surveys no sample splitting or reduction was necessary. The rice bags were stored in the motel rooms of Mammoth Geological Ltd. personnel until there were a sufficient number to make a shipment to the lab. Mammoth Geological Ltd. is independent of the property owner, Paul Saulnier and also independent of the property operator Angild Investments Ltd.

All samples from the 2012 exploration program were analyzed at Acme Analytical Laboratories Ltd. in Vancouver, an ISO 9001 certified lab. The sample preparation procedures follow. Silt and soil samples are first dried at 60°C and sieved at -80 mesh to obtain a 100 gram pulp. Depending on the amount of -80 mesh material obtained, a 7.5, 15 or 30 gram sub-sample is cut and leached with 90ml or 180ml of 2-2-2 HCl-HNO_3-H_2O solution at 95°C for one hour, followed by dilution to 300ml or 600ml and 36 element ICP-MS.

Rock samples are crushed to 70% passing through a 10 mesh screen. A 250 gram split is pulverized to 95% passing through a 150 mesh screen. A 30gm sub-sample of the pulverized pulp is leached with 90ml or 180ml of 2-2-2 HCl-HNO_3-H_2O solution at 95°C for one hour, followed by dilution to 300ml or 600ml and 36 element ICP-MS.

The exploration programs completed by Angild Investments Ltd. are preliminary surveys. The quality control procedures employed included duplicates and standards supplied by CDN Resources Laboratories Ltd. A total of 7 standards were employed at regular intervals throughout the sample stream. The CDN standards performed poorly for gold with only one of the 3 analyses within the range for Standard CDN-GS-7PE, and two of 4 analyses within the range for Standard CDN-ME-1101 as shown in Table 7. The copper analyses for CDN-ME-1101 performed well with all three analyses reporting within the range.

Table 7. Summary of Standard Performance

CDN ME 1101				**CDN GS P7E**		
Ranges	508-620	6210-7250		**Ranges**	680-852	
Sample No	**ppb Au**	**ppm Cu**		**Sample No**	**ppb Au**	**ppm Cu**
LYS-02	674	6834		LYS-01	770.7	42.1
LYS-04	650	6429		LYS-03	647.5	45
LYS-06	513	6964		LYS-05	698.8	44.8
				LYS-07	660.8	45.8

DATA VERIFICATION

The author applied minimal verification procedures as the field crew conducting the exploration program were working for the author's geological consulting company. A review of the assay data shows no irregularities in the author's opinion.

The author is therefore satisfied that the data is adequate for the exploration programs it supports for the purpose of this technical report.

MINERAL PROCESSING AND METALLURGICAL TESTING

There has been no mineral processing or metallurgical testing undertaken on the Lacey property.

MINERAL RESOURCES AND MINERAL RESERVE ESTIMATES

There are presently no mineral reserves or mineral resources on the Lacey property.

ADJACENT PROPERTIES

The author is not relying on information from adjacent properties.

OTHER RELEVANT DATA AND INFORMATION

There is no additional relevant data or information known that is not disclosed on the Lacey property.

INTERPRETATION AND CONCLUSIONS

The first pass exploration program on the Lacey property has met with some success. Three areas were identified for further exploration: Lacey NE Au Cu area, Lacey Central Cu area and Limestone area.

The Lacey NE Au Cu area should be followed up. There are two good continuous sections of continuous anomalous gold in soil and copper in soil over a 1500 metre section of logging road in this area. A small soil grid should test the continuity and strength of this anomaly.

The Lacey Central Cu area is underlain by Sicker Group Nitinat Formation calc alkaline volcanics and should also be followed up. An area of semi-continuous copper in soil values 750 long along a logging road was noted in this area. The highest gold value on the Lacey block also came from this area. Again, a small grid is recommended to evaluate this anomaly.

The limited area of the Limestone block tested located a zone of continuous copper and soil and semi-continuous gold in soil. This area needs to be followed up and the entire block should be tested by soil sampling the existing road system.

RECOMMENDATIONS

Further work is recommended for three areas within the Lacey property, the NE Au Cu area and the Central Cu area on the Lacey block and the Limestone block. A small 1600 metre by 1000 metre grid with lines spaced at 200 metre intervals making 9 lines of 21 samples yielding 189 samples is required for the NE Au Cu area. A small grid 600 metres by 500 metres with lines spaced at 200 metres making 4 lines of 500 metres yielding 44 samples is required for the Central Cu area. The best approach for the Limestone block at this time is road soiling as a couple of roads bisect the property in an east west direction. As well a few lines can be run from one road to the next down the mountain. A total of 10 kilometres of soil lines at 50 metre sample intervals will yield 210 samples. The total budget is estimated at $50,000.

Table 8. 2012 Phase II Budget

Field Crew							
	Lead Hand	9	days	@	$450	/day	$4,050
	Lead Hand	9	days	@	$450	/day	$4,050
	Sampler	9	days	@	$400	/day	$3,600
	Sampler	9	days	@	$400	/day	$3,600
	Sampler	9	days	@	$400	/day	$3,600
Support							
	Vehicle and Fuel	9	days	@	$150	/day	$1,350
	Vehicle and Fuel	9	days	@	$150	/day	$1,350
	Room and Board	45	days	@	$150	/day	$6,750
	Supplies						$500
Analyses							
	Analysis - soil	450	samples	@	$20		$9,000
	Analysis - rock	0	samples	@	35		$0
	Analysis - standards	8	samples	@	$20		$160
Supervision							$2,500
Documentation							$5,000
Contingency:							$4,490
Total Budget							**$50,000**

The cost of the 2012 Phase I Exploration Program was $37,782.14 with $27,263.02 allocated to the Lacey block and $10,519.13 allocated to the Limestone block.

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CERTIFICATE OF QUALIFIED PERSON

I, R.Tim Henneberry, P.Geo. of 2446 Bidston Road, Mill Bay, B.C. V0R 2P4 do hereby certify that: I am the Qualified Person for:

Angild Investment Ltd.
1601 – 2075 Comox Street
Vancouver, B.C. V6G 1S2

I earned a Bachelor of Science Degree majoring in geology from Dalhousie University, graduating in May 1980.

I am registered with the Association of Professional Engineers and Geoscientists in the Province of British Columbia as a Professional Geoscientist.

I have practiced my profession continuously for 32 years since graduation.

I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101. My relevant experience for the purpose of this Technical Report is:

- 32 years of exploration experience for base and precious metals in the Western Cordillera

I am responsible for the preparation of the technical report titled "2012 Phase I Geochemical Report Lacey Property" and dated September 23, 2012 relating to the Lacey property. I have yet to visit the Lacey Property.

I have had no prior involvement with the property that is the subject of the Technical Report.

As of September 23, 2012, to the best of my knowledge, information and belief, the Technical Report contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

I am independent of the issuer after applying all of the tests in section 1.4 of NI 43-101. However, my geological consulting company undertook the exploration programs that are the subject of this report.

I have read NI 43-101 and Form 43-101F, and the Technical Report has been prepared in compliance with that instrument and form.

I make this Technical Report effective September 23, 2012.

"signed and sealed"

_____

R.Tim Henneberry, P.Geo

LACEY PROPERTY 2012 PHASE I STATEMENT OF COSTS

	Dates Worked	
Gary Wesa	Jun 7,10,11,12,13,14,15,16,17,18.19.20,21	Jun 18,19
Ed Balon	Jun 10,11,12,13,14,15,16,17,18,19,20,21	Jun 18,19

										Lacey	Limestone
Field Crew											
	Tim Henneberry		days	@	$750.00	/day	$0.00				
	Gary Wesa	13	days	@	$650.00	/day	$8,450.00			$7,150.00	$1,300.00
	Ed Balon	12	days	@	$650.00	/day	$7,800.00			$6,500.00	$1,300.00
Vehcile Rentals											
	Mammoth	13	days	@	$100.00	/day	$1,300.00			$1,100.00	$200.00
Supervision											
	Tim Henneberry	26	hours	@	$125.00	/hour	$3,250.00			$1,375.00	$1,875.00
Documentation											
	Tim Henneberry	41	hours	@	$125.00	/hour	$5,125.00			$1,375.00	$3,750.00
Expenses							$2,692.60				
	Supplies					$379.14				$373.29	$5.85
	Lodging					$660.00				$660.00	
	Meals					$1,064.60				$889.13	$175.47
	Fuel					$243.68				$193.40	$50.28
	Travel					$121.45				$121.45	
	Service 10%					$223.73				$223.73	
Analysis							$5,179.94				
	Acme Analytical				Pre-HST Invoice						
	VANI135230 - VAN12002836					$1,405.78				$1,042.22	$363.56
	VANI135232 - VAN12002837					$3,303.26				$2,991.21	$312.05
	Service (10%)					$470.90				$403.34	$67.56
HST (GST Number 133959049)							$3,984.60				
	Services					$3,111.00				$2,100.00	$1,011.00
	Expenses					$252.01				$232.84	$19.17
	Analysis					$621.59				$532.41	$89.18
Total Filed							**$37,782.14**			**$27,263.02**	**$10,519.13**

Lacey and Limestone Rock Samples

Project	Sample	83Z10E	83Z10N	Altitude	Description	ppb Au	ppm Cu	ppm Pb	ppm Zn
Lacey	L12EBR01	371327	5464676	287	Select Grab: rusty wth'd, carb altr'd maf volc w/ tr to 1% f diss py	<0.5	9.7	3.2	64
Lacey	L12EBR02	371336	5464688	291	Contin Chip: across 70cm; same as EBR01 w/ abund qz stringers	<0.5	1.5	1.1	24
Lacey	L12EBR03	371458	5464199	305	Grab: hem altr'd chert w/ f wispy stringers, v f diss, smears, patches py	<0.5	3.1	0.7	18
Lacey	L12EBR04	371414	5464179	284	Grab: chert chips w/ <1.0mm to 1.0cm qz strgrs, tr v f diss py grains	1	5.1	2	17
Lacey	L12EBR05	371165	5464870	278	Float: altr'd, frac'd andes w/ 1.0cm aspy vn; lim-scorodite alt'n on vn margins	276.9	955.9	>10000.0	3229
Lacey	L12EBR06	371287	5464874	310	Contin Chip: 30cm carb alt'n zone in sheared int volc w/ pods, lenses cc	1.1	18.3	6.2	104
Lacey	L12EBR07	371599	5464543	333	Select Grab: qz flooded, possibly chert w/ v f diss & wispy stringer py	4.4	12.9	288.8	26
Lacey	L12EBR08	371644	5464351	341	Float: qz vn'd dk grey chert w/ qz vns up to 2.0cm, tr tp 1.0% v f g py in matrix	0.8	9.7	2.9	11
Lacey	L12EBR09	371749	5464681	380	Grab: chips from 7.0cm qz vn in blk argillite w/ rusty patches	<0.5	14.7	16.7	48
Lacey	L12EBR10	371724	5464731	387	Float: qz-cemented, brx'd gabbro with Mn-Ox filled vugs; boxwork texture	<0.5	47.6	2	25
Lacey	L12EBR11	372467	5464447	442	Decomposed Gouge: 30cm width rusty clay gouge w/ limonitic rock chips	4.7	137.5	7.3	90
Lacey	L12EBR12	373066	5464155	398	Select Grab: silicf'd argillite w/ qz strgrs, vns, minor qz matrix brx; tr to 1% py	1.6	22.6	5.2	83
Lacey	L12EBR13	373538	5463206	440	Composite Grab: carb altr'd tuff w/ tr to 1% f diss to wispy py, tr fuchsite	<0.5	13.5	3.3	101
Lacey	L12EBR14	373702	5463035	444	Float: qz-cb altr'd volc w/ ribbon-banded qz vns, lenses, pods, irreg masses	<0.5	11.6	0.7	14
Lacey	L12EBR15	373707	5463043	444	Select Grab: qz-cb-fuchsite altr'd volcaniclastic w/ tr diss py in matrix	<0.5	36	1.8	31
Lacey	L12EBR16	373768	5462936	454	Talus Grab: goss, altr'd blk argillite w/ vuggy qz vns	2	11.6	2.9	34
Lacey	L12EBR17	373776	5463467	420	Float: blk argillite w/ mm to cm-scale, sheeted qz vns exhib wk bxwrk texture	<0.5	14	4.5	55
Lacey	L12EBR18	374091	5463176	439	Float: rusty wthr'd fault brx vn w/ abund crse cc and ankerite xstls	<0.5	1.9	5.1	102
Lacey	L12EBR19	373988	5463476	413	Grab: rusty wth'd, cb altr'd volc w/ up to 5% diss, f patchy & frac fill/strgr py	3.1	3.2	2.1	52
Lacey	L12EBR20	374042	5463445	421	Grab: rusty wth'd, cb altr'd basaltic andes w/ tr f g diss py	0.5	101.4	2	79
Lacey	L12EBR21	374026	5463459	419	Float: wte bull qz vn 4.5 – 6.0cm wide (2 pcs float beside road)	<0.5	33.4	0.5	10
Lacey	L12EBR22	374432	5463341	435	Grab: rusty wth'd, cb shear zone in andes w/ cc-ank lenses and bands	<0.5	35.5	5.4	78
Lacey	L12EBR23	374533	5463257	443	Grab: 15cm qz vn w/ tr v f g py in andesite	1.7	12.7	1.2	17
Lacey	L12EBR24	374564	5463113	449	Select Grab: 5-7% chalco, mal, az in 23cm cb-qz-lim shear zone in altr'd volc	23.5	2602.4	5.5	508
Lacey	L12EBR25	374579	5462956	454	Grab: tr v f diss py in 1.0m alt'n zone in qz-cb altr'd volc	21.9	75.6	9.5	64
Lacey	L12EBR26	374601	5462790	457	Composite Grab: qz vn float in talus debris (3 pcs up to 6.0cm width)	1.4	14.6	1.8	13
Lacey	L12EBR27	374672	5462496	472	Grab: limonitic wth'd qz-cb-fuchsite altr'd volc	1.4	63.5	3.1	53
Lacey	L12EBR28	374730	5462382	482	Select Grab: blk argill w/ tr to 1.0% diss py, qz strgrs, vns, pods & inclus'ns	1.2	51.2	10.3	69
Lacey	L12EBR29	374866	5462405	474	Float: banded qz vn w/ diss to f f py in qz-lim shear zone in blk argillite	92.8	52	6.9	22
Lacey	L12EBR30	374198	5460413	460	Select Grab: intense cb-qz-fuchsite alt'n in 7.0m goss shear zone	3.9	9.5	1	14
Lacey	L12EBR31	374901	5457828	305	Grab: rusty, limonitic decomposed bedrock; clay gouge	3.5	25.3	2.9	12
Lacey	L12EBR32	374878	5457836	305	Grab: same as EBR31	<0.5	31.4	5.5	10
Lacey	L12EBR33	374866	5457850	304	Grab: same as EBR31; 80cm sample across road bank	1.7	28.3	3	19
Lacey	L12EBR34	374924	5457919	295	Float (Composite): angular qz vn float; 10 pcs up to 5x5.5x7cm	<0.5	6.9	1.2	5
Lacey	L12EBR35	374261	5457704	210	Float: limonitic, vuggy qz vn float; wte bull qz	<0.5	5.4	3.8	11
Lacey	L12EBR36	376673	5457661	464	Select Grab: qz-cb altr'd volc w/ crse qz vn w/ lim filled cavities; wkly banded	<0.5	1.9	0.6	12
Lacey	L12EBR37	376250	5458881	449	Contin Chip: semi-massive to crse aggregate to f g py in cb-qz altr'd volc	7.1	7.5	2.3	11
Lacey	L12EBR38	371347	5462868	485	Select Grab: 30cm chip across limonitic, cb altr'd andes	<0.5	22.1	1.8	74
Lacey	L12EBR39	372323	5464006	386	Grab: ank-cc-fuch altr'd volc w/ tr-1.0% v f wispy to v f diss py in aphan matrix	2.5	76.6	2.1	57
Lacey	L12EBR40	372739	5461023	303	Select Grab: limonitic, 15cm shear zone in sheared volc w/ clay gouge	1.1	33.3	4.9	207
Lacey	L12EBR41	372742	5461008	318	Grab: limonitic, 60cm shear zone w/ clay gouge & decomposed bdrk	2.9	75.5	3.9	116
Lacey	L12EBR42	372758	5460730	335	Float: ank-cc altr'd volc w/ up to 1.0% v f g patchy to smoky-gry, diss py	<0.5	24.8	2.2	86
Lacey	L12EBR43	374298	5459854	452	Grab: silic to cb altr'd volc w/ ~1.0% diss to patchy py in fracs and matrix	126.9	13.7	2.4	35
Limestone	LS12EBR01	377715	5440056	1062	Talus Float: frac'd, sheared andes w/ tr-0.5% cpy, chalco, mal, qz-epid vns	14.8	1872.1	1.9	55

Lacey and Limestone Rock Samples

Project	Sample	83Z10E	83Z10N	Altitude	Description	ppb Au	ppm Cu	ppm Pb	ppm Zn
Limestone	LS12EBR02	377605	5440190	1047	Float: qz-epidote vns up to 14cm wide; sample 6 pcs up to 14x18x19cm	<0.5	27.5	1.8	26
Limestone	LS12EBR03	377460	5440211	986	Grab: semi-mass to mass, f g py in pods, vns, strgrs, inclus'ns in frac volc.	210.8	251.5	58.3	36
Limestone	LS12EBR04	377462	5440206	987	Talus Float: gossanous qz-limonite vein	303.7	331.1	43.4	43
Limestone	LS12EBR05	377455	5440095	970	Float: rusty, frac'd qz-lim altr'd mafic volc brx w/ qz inclus'ns clots & masses	10.6	32.4	1.3	29
Limestone	LS12EBR06	377537	5440420	1020	Float: wkly cb altr'd maf volc w/ Fe- & Mn-Ox lined fracs and cavities	6.1	57.9	1.8	34
Limestone	LS12EBR07	377520	5440399	1017	Float: same as EBR06; cc-ank vns & brx vns cutting maf volc	13.3	129.8	3.7	29
Limestone	LS12EBR08	377324	5440204	960	Float: silicf'd, qz flooded volc w/ ~5-7% f diss to nodular, frac coating py	7.7	179.6	3.1	46
Limestone	LS12EBR09	377322	5440203	962	Float: rusty wth'd volc w/ cc-ank-py strgrs, diss to patchy frac-coating py	4.3	217	2.7	66
Limestone	LS12EBR10	377213	5440616	953	Grab: ~ 1.0m wd limonitic, frac'd to brx'd volc w/ tr to 1-2% diss to patchy py	15	244.6	7.3	85
Limestone	LS12EBR11	377551	5440561	958	Grab: limonitic volc w/ up to 10% crse diss to irreg clots, inclus'ns py	31.7	760	3.1	80
Limestone	LS12EBR12	377318	5441201	832	Grab: ~10-15% diss to semi-mass, crse clots, f g py in 0.9m shear zn in volc	24.9	2421.5	12.5	118
Limestone	LS12EBR13	376874	5441607	741	Grab: limonitic maf volc w/ hairline fracs coated with Mn- & Fe-Ox	24.4	293.9	4.2	49
Limestone	BP-R1	377320	5442832	552	Grab: rusty ong wthr'd, intensely cb alt'd maf volc w/ perv ank-cc veining	10.3	119.1	2.3	44
Limestone	BP-R2	377324	5442832	552	Grab: 5.0cm massive siderite vn w/ <5% ank from footwall of alt'n zone'	<0.5	6.2	2	76

Project	Sample	Wayppoint	83Z10E	83Z10N	Altitude	ppm Mo	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Ni	ppm Co	ppm Mn	% Fe	ppm As	ppb Au	ppm Th	ppm Sr	ppm Cd	ppm Sb	ppm Bi
Lacey	L12EBS01	3	371345	5464649	293	6.8	84.2	5.8	78	0.1	78.6	22.6	586	7.23	192.8	7.9	0.9	8	0.1	12.5	0.1
Lacey	L12EBS02	5	371473	5463857	303	1.1	86.6	5.3	89	0.3	46.1	21.1	491	5.39	19.8	3.1	0.8	8	0.3	2.1	<0.1
Lacey	L12EBS03	6	371469	5463868	300	1.1	55.6	4.8	81	0.5	83	25.4	485	6.27	18.9	1.6	0.7	7	0.2	2.3	0.2
Lacey	L12EBS04	7	371464	5463877	299	0.6	49.8	1.8	69	0.2	88.8	27.8	526	7.3	8.2	1.5	0.4	7	0.1	2.3	<0.1
Lacey	L12EBS05	8	371460	5463886	298	0.9	77.1	2.6	108	0.1	274.5	40.5	445	8.35	142.4	1.7	0.5	5	0.1	10.9	<0.1
Lacey	L12EBS06	9	371457	5463896	297	0.4	78.7	3.3	121	<0.1	149.7	44.4	1369	8.4	25	3.5	0.5	8	0.3	4.4	<0.1
Lacey	L12EBS07	10	371455	5463905	295	0.9	137.3	3.6	93	0.1	188.3	36.3	1155	8.76	34.7	1.9	0.5	5	0.4	3	<0.1
Lacey	L12EBS08	11	371454	5463916	293	0.8	133.3	2.2	95	0.1	121.7	40.9	1040	8.12	19.9	3.2	0.8	12	0.2	1.4	<0.1
Lacey	L12EBS09	13	371188	5464842	271	1.1	102.7	3.3	50	0.1	50.1	27.9	706	5.39	23.4	5.8	0.9	26	<0.1	2	<0.1
Lacey	L12EBS10	14	371162	5464848	275	0.6	85.1	3.7	62	<0.1	47.8	23.1	677	5.41	24.9	3.8	1.1	13	0.2	1.9	<0.1
Lacey	L12EBS11	15	371159	5464888	277	1.2	85.4	4.8	68	<0.1	45.1	23.6	782	5.63	19	3.6	0.9	16	0.1	1.6	<0.1
Lacey	L12EBS12	16	371140	5464899	277	0.8	136.8	3.1	58	<0.1	50.6	25.3	718	5.78	20.8	6.7	1	18	0.1	1.6	<0.1
Lacey	L12EBS13	17	371125	5464915	278	1.3	85.9	4.2	60	0.3	48	26.4	992	6.16	16.3	4.5	1	23	0.2	2	<0.1
Lacey	L12EBS14	19	371114	5464939	261	1.5	99.1	3.3	51	0.2	50.7	25.2	371	6.3	17.8	4.1	1.1	17	<0.1	1.8	<0.1
Lacey	L12EBS15	23	371806	5464290	340	1.1	24.6	11.7	69	0.1	31.3	11.5	915	3.49	33.6	2.2	1.1	13	0.9	2.5	<0.1
Lacey	L12EBS16	24	371734	5464693	382	3	53.3	15.1	326	<0.1	246.7	31.1	375	16.39	392	1.7	0.6	2	0.6	19.2	<0.1
Lacey	L12EBS17	26	371739	5464681	382	1.9	50	54.7	243	<0.1	335.2	74.1	2531	14.9	265.8	4.1	0.7	11	2.4	10.1	<0.1
Lacey	L12EBS18	28	371823	5465095	421	1.2	75	6.3	88	0.1	27.4	14.9	647	5	19.3	3.8	0.7	8	<0.1	6.5	<0.1
Lacey	L12EBS19	32	373550	5463191	438	0.6	80.5	4.3	62	<0.1	64.3	24.1	294	6	19.3	2.5	0.6	8	0.1	10.3	<0.1
Lacey	L12EBS20	35	373746	5462993	449	2.3	74.5	5.2	85	1.4	27.8	14.9	619	4.34	15.4	4.2	1.4	4	0.2	2.6	<0.1
Lacey	L12EBS21	37	374052	5462805	469	2.6	62.5	3.5	79	0.2	118.6	44.8	914	9.28	47.8	1.6	0.5	9	0.2	1.9	<0.1
Lacey	L12EBS22	38	373831	5462866	461	10.8	48.8	22.4	202	1.2	76.5	24.1	1742	11.23	97.4	3.8	0.6	8	0.3	20.9	<0.1
Lacey	L12EBS23	39	373907	5462755	462	2.6	94.2	5.2	88	<0.1	25.2	19.3	607	7.5	53	7.6	0.6	5	<0.1	20	<0.1
Lacey	L12EBS24	40	373900	5462803	462	3.1	59.6	5.9	162	0.2	124	20.9	149	8.26	229	3.1	0.7	3	0.2	20.3	<0.1
Lacey	L12EBS25	42	373779	5463467	419	1.5	51.5	6.2	112	0.8	24.8	16	791	6.48	15.8	5.3	0.7	11	0.3	5.2	0.2
Lacey	L12EBS26	43	374028	5463211	430	0.7	27.7	4.8	83	<0.1	46.3	12.8	416	3.92	8.2	7.2	0.6	9	0.4	0.8	<0.1
Lacey	L12EBS27	48	374077	5463370	423	0.7	67.1	4.7	77	<0.1	38.5	22	955	6.59	11.3	5.1	0.7	9	0.2	15.4	<0.1
Lacey	L12EBS28	49	374230	5463367	434	0.4	72.2	18.7	411	0.1	55.4	59.2	8052	24.3	40.6	3.9	0.4	10	1.7	35.9	<0.1
Lacey	L12EBS29	50	374236	5463371	433	2.1	231.2	9.7	160	<0.1	28.5	37.6	3898	15.15	148.8	15.9	0.7	3	0.3	145.5	<0.1
Lacey	L12EBS30	51	374251	5463388	439	0.8	70.2	4	87	0.1	30.8	17.5	757	6.75	73.2	3.1	0.6	9	0.2	15.4	<0.1
Lacey	L12EBS31	52	374250	5463399	438	2.1	277.7	8.3	231	0.4	23.1	19.5	2834	11.05	110.6	14	0.6	9	0.7	82.5	<0.1
Lacey	L12EBS32	53	374295	5463405	444	1.1	98.8	3.8	65	0.2	28	12.5	388	4.34	11.8	8	1.1	9	<0.1	1.2	<0.1
Lacey	L12EBS33	54	374309	5463403	445	1.4	36.5	5.1	71	0.1	20.4	13.4	860	5.02	10.8	6.7	1	11	0.1	2.4	<0.1
Lacey	L12EBS34	56	374434	5463338	441	2.5	77.4	12.2	91	0.3	8.1	13.4	941	8.19	31.1	7.1	1.2	11	0.2	33.7	<0.1
Lacey	L12EBS35	57	374459	5463294	446	0.7	64.5	5.6	67	0.2	43.7	18.7	780	5.03	16.8	5.9	0.9	10	0.1	2.6	<0.1
Lacey	L12EBS36	58	374506	5463271	449	2.1	75.3	12.4	180	0.8	39.2	21.2	962	5.64	28.3	10.2	1.1	9	0.4	8.8	0.2
Lacey	L12EBS37	59	374529	5463262	446	7.6	251.8	15.4	197	0.3	53.5	39.9	4296	13.4	115.3	29.4	1.2	14	0.4	98.4	0.2
Lacey	L12EBS38	61	374533	5463232	446	0.6	81	4.2	58	0.1	46.6	15.4	649	3.87	12.8	15	1.1	16	0.1	1.8	<0.1
Lacey	L12EBS39	62	374532	5463201	447	0.7	69.8	4.7	74	0.2	71	31.1	438	3.73	10.4	4.8	0.9	13	0.1	1.2	<0.1
Lacey	L12EBS40	63	374543	5463185	450	0.9	56.4	5.4	58	0.1	36.2	17.2	493	4.57	11.1	33.5	0.7	11	<0.1	1.7	0.1
Lacey	L12EBS41	64	374551	5463170	451	8.6	303.2	11.5	159	0.4	39.1	27.9	2814	12.53	134.6	64.8	1	6	0.3	102.2	0.2
Lacey	L12EBS42	65	374557	5463116	452	2.1	96.9	4.7	79	0.1	45.2	18.9	481	4.66	19.2	5.8	1.1	10	0.1	2.6	<0.1
Lacey	L12EBS43	67	374567	5463105	450	221.6	241	63.5	108	3	21.7	29.5	5195	8.02	81.2	188.2	0.4	6	1.6	22	0.2
Lacey	L12EBS44	68	374565	5463071	451	1.8	65.8	14.2	113	0.1	30.4	24.1	4072	7.27	20.9	4.7	1	12	0.4	5.4	<0.1
Lacey	L12EBS45	69	374572	5462954	451	4	89.7	20.4	65	0.4	9.4	14.7	1715	6.68	115.7	25.9	0.6	4	0.2	67.7	<0.1
Lacey	L12EBS46	71	374601	5462925	457	1.3	88.5	6.4	80	0.1	21.3	14.9	958	5.72	21.9	18.3	0.7	15	0.1	3.6	<0.1
Lacey	L12EBS47	72	374599	5462898	454	2.4	67.8	5.5	41	0.3	9.2	12.1	747	4.57	10.9	24.4	0.6	8	<0.1	8.2	<0.1
Lacey	L12EBS48	73	374600	5462883	455	0.1	20.7	3.3	111	0.1	14.6	23.6	778	2.72	30.4	6.3	0.4	31	0.1	9.4	<0.1

Project	Sample	Wayppoint	83Z10E	83Z10N	Altitude	ppm Mo	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Ni	ppm Co	ppm Mn	% Fe	ppm As	ppb Au	ppm Th	ppm Sr	ppm Cd	ppm Sb	ppm Bi
Lacey	L12EBS49	74	374619	5462855	454	6.2	114.1	9.9	74	0.4	15.8	12.6	1310	5.46	62.6	27.7	0.9	7	0.1	34.5	<0.1
Lacey	L12EBS50	75	374616	5462828	456	9.8	107.4	9.7	176	0.2	28.7	29.4	5119	9.65	28.7	29.2	1.1	6	0.4	26.3	<0.1
Lacey	L12EBS51	76	374603	5462816	458	1.6	165	7.2	120	0.2	54	19.8	775	6.36	35.6	5.3	1.3	11	0.4	37.8	<0.1
Lacey	L12EBS52	77	374615	5462811	459	0.5	45.6	5.4	40	<0.1	20.6	9.3	407	3.27	13.3	4.3	0.7	9	<0.1	1.2	<0.1
Lacey	L12EBS53	79	374652	5462574	460	1.2	106.4	7.9	74	0.2	25.7	18.4	1497	4.62	20	6.5	1	22	0.4	6.3	<0.1
Lacey	L12EBS54	80	374657	5462570	460	1	92.2	12.3	110	0.5	42.1	26.2	1733	6.42	20.5	10.4	2.1	18	0.7	6.1	<0.1
Lacey	L12EBS55	81	374671	5462555	463	1	74.2	12.8	99	0.4	38.4	18.3	657	5.08	12	9	0.9	16	0.2	5.5	<0.1
Lacey	L12EBS56	82	374676	5462523	468	1.2	117	9	75	0.2	72.7	27.5	1799	5.83	19	3.4	1.1	11	0.4	4.5	<0.1
Lacey	L12EBS57	83	374654	5462511	469	3	174.1	12.4	73	0.3	41.4	22.3	883	7.32	33.2	13.3	1.2	14	0.2	6.8	<0.1
Lacey	L12EBS58	84	374677	5462492	471	11.8	184.5	16	199	0.2	270.9	89.6	4716	15.26	152.2	6.3	0.8	9	0.8	52.4	<0.1
Lacey	L12EBS59	86	374661	5462459	474	0.8	96	3.6	48	0.1	30.4	14.8	537	3.98	9	12.1	1.2	14	0.1	1	<0.1
Lacey	L12EBS60	87	374654	5462418	476	0.9	82.1	8.3	60	0.2	32.8	17.1	536	4.59	8.3	3.5	0.9	14	0.1	0.8	<0.1
Lacey	L12EBS61	88	374648	5462403	478	1	121	3.3	47	0.3	35.8	18.4	346	5.05	14.3	7	1.2	15	0.1	1.5	<0.1
Lacey	L12EBS62	89	374660	5462373	477	2.2	397.7	31	164	0.3	214.5	55.7	2506	16.21	42.5	6.8	0.9	12	1.8	44	<0.1
Lacey	L12EBS63	90	374731	5462396	481	2.4	96.8	19.1	92	0.2	59.7	23.9	608	5.03	115.1	10.8	1.1	15	0.5	1.3	0.1
Lacey	L12EBS64	92	374748	5462381	480	3.5	79.2	45	82	0.3	54.8	27.6	696	7.45	70.8	5.6	1.2	29	0.5	1.5	0.3
Lacey	L12EBS65	93	374778	5462373	481	3.5	110.9	22	85	0.2	38.6	22.7	628	5.97	41.6	12	1.4	11	0.3	1.6	<0.1
Lacey	L12EBS66	94	374800	5462371	480	1.7	91.7	11.2	61	0.1	57.8	26.2	878	4.15	35.7	32.8	1	13	0.6	0.9	<0.1
Lacey	L12EBS67	95	374825	5462372	482	11.3	928.3	45.1	170	0.6	301.2	90.2	4230	12.35	763.9	39.9	0.7	18	2.4	12.9	0.1
Lacey	L12EBS68	96	374849	5462387	479	0.9	60.5	6.8	72	0.2	30.8	15.9	609	3.73	10.8	4.1	0.9	12	0.1	0.6	<0.1
Lacey	L12EBS69	97	374872	5462408	476	1.5	50.1	7.5	81	0.2	25.9	15.9	622	4.63	11.2	27.7	1	9	0.2	0.6	0.2
Lacey	L12EBS70	99	374890	5462415	473	22.7	307	4.7	128	0.2	111	30	842	16.86	76	4	0.6	10	0.2	8.6	<0.1
Lacey	L12EBS71	100	375028	5462184	458	4.2	128	6.7	127	<0.1	143.4	51.9	3460	13.3	21.1	2.3	0.5	17	0.6	20	<0.1
Lacey	L12EBS72	101	375033	5462156	457	3.5	20.2	3.6	33	0.2	16.9	7.1	743	3.04	4	0.7	0.6	10	0.3	2.5	<0.1
Lacey	L12EBS73	102	375051	5462046	460	3.9	126.1	8.6	112	0.1	43.4	25.5	786	8.63	18.6	14.7	0.8	12	0.2	19.3	<0.1
Lacey	L12EBS74	103	375053	5462032	460	1.6	202.3	4.7	63	0.2	25	13	239	4.99	13.5	5.4	1.4	9	0.2	9.6	0.1
Lacey	L12EBS75	104	375130	5461947	454	1.3	77.8	7.1	71	0.1	36	16.5	300	5.15	9.1	0.8	1.4	10	0.2	1.8	0.1
Lacey	L12EBS76	105	375227	5461936	455	0.9	77.5	4.5	71	0.1	73.3	19	359	5.45	13	7.2	1.1	13	0.1	4.3	<0.1
Lacey	L12EBS77	106	375190	5461407	453	1.4	63.9	10	128	0.3	21.2	18.7	2700	4.62	4.7	<0.5	1.1	18	0.5	1.9	0.2
Lacey	L12EBS78	107	375195	5461395	454	1	54.8	5.3	36	<0.1	16.2	8.8	698	3.19	8.8	3.4	2.4	12	0.2	5.7	0.3
Lacey	L12EBS79	108	375208	5461371	453	0.7	38.3	5.3	47	0.1	22	9.7	296	4.14	7.3	1.6	1.2	12	0.1	1	<0.1
Lacey	L12EBS80	109	375215	5461349	454	1.5	8.3	3.2	17	<0.1	2.9	2.7	65	1.55	3.3	<0.5	1.3	7	<0.1	0.7	0.1
Lacey	L12EBS81	110	375292	5461270	458	0.7	59.3	15	78	0.1	26.3	11.4	226	3.91	4.6	2.7	1.3	13	0.5	1.1	<0.1
Lacey	L12EBS82	111	375308	5461162	467	0.8	30.8	3.8	29	<0.1	16.6	8.3	221	2.84	3.2	1.3	0.8	11	0.1	0.7	<0.1
	L12EBS83	112	375304	5461140	467	0.7	46.2	2.9	35	0.2	27.9	12.4	184	3.61	4.5	<0.5	1.1	10	0.2	0.6	<0.1
Lacey	L12EBS84	113	375302	5461136	469	2	93.5	5.2	152	0.4	53.3	20	335	11.19	33.3	1.3	0.7	4	<0.1	11.9	<0.1
Lacey	L12EBS85	114	375301	5461113	468	2.1	135.6	3.3	98	<0.1	47.3	19.6	264	7.05	25.8	<0.5	0.4	7	<0.1	22.5	<0.1
Lacey	L12EBS86	115	375325	5461003	468	0.9	33	4.7	51	0.3	45.2	15.3	222	4.36	8.4	<0.5	0.8	12	<0.1	2.7	<0.1
Lacey	L12EBS87	116	375327	5460999	469	1.2	32.8	4.4	54	0.1	42.8	14	207	4.63	11.2	3.6	0.5	14	0.1	3.4	<0.1
Lacey	L12EBS88	117	375331	5460953	470	1.8	37.6	5	45	0.2	34.6	11.3	221	4.3	8.4	1.2	0.8	15	0.2	1.2	<0.1
Lacey	L12EBS89	118	375343	5460937	471	1.6	72.8	11.4	118	0.2	114.9	40	1525	7.25	31.3	2.1	0.9	13	0.3	22	<0.1
Lacey	L12EBS90	119	375355	5460917	472	0.9	33.1	4.2	39	<0.1	24	10.4	188	3.62	4.8	2.3	1.2	13	0.1	0.8	<0.1
Lacey	L12EBS91	120	375367	5460905	474	0.8	26.2	4.6	33	<0.1	24.8	10.2	215	4.15	5.1	0.7	0.8	15	0.2	1.5	<0.1
Lacey	L12EBS92	121	375400	5460794	476	1.2	25.1	4.7	36	0.1	17.4	7.8	210	4.44	4.3	<0.5	1.1	11	<0.1	0.4	<0.1
Lacey	L12EBS93	122	375420	5460587	478	1.9	46.3	6.7	53	0.1	40.7	25.1	226	5.59	6	<0.5	1.1	18	0.2	0.5	<0.1
Lacey	L12EBS94	123	374355	5460350	476	0.8	107.1	3.8	60	<0.1	151	30.9	627	9.84	316.8	2.4	0.7	5	0.1	62.1	<0.1
Lacey	L12EBS95	124	374193	5460415	457	0.6	101	4.1	78	<0.1	100.6	36.3	1201	7.21	112.6	4.9	0.8	13	0.2	36	<0.1
Lacey	L12EBS96	126	373989	5460646	457	0.7	113.1	3.5	74	0.1	55.2	29.9	1110	7.19	14.9	2.9	1.1	8	0.1	9.3	<0.1

Project	Sample	Wayppoint	83Z10E	83Z10N	Altitude	ppm Mo	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Ni	ppm Co	ppm Mn	% Fe	ppm As	ppb Au	ppm Th	ppm Sr	ppm Cd	ppm Sb	ppm Bi
Lacey	L12EBS97	127	374910	5457828	306	0.3	38.7	3.3	51	<0.1	21.7	10.4	256	3.15	5.3	1.8	1.2	8	<0.1	0.7	<0.1
Lacey	L12EBS98	129	374895	5457830	306	0.1	31.8	3.2	43	<0.1	10.1	7.9	184	3.2	7.2	1.2	0.7	6	<0.1	0.3	<0.1
Lacey	L12EBS99	131	374873	5457844	305	0.2	34.4	2.9	43	<0.1	7.8	7.5	227	3.26	10.9	<0.5	0.6	4	<0.1	0.3	<0.1
Lacey	L12EBS100	133	374865	5457860	302	0.1	23.6	2.5	36	<0.1	6.6	7.8	219	2.91	12.7	5.3	0.8	7	<0.1	0.4	<0.1
Lacey	L12EBS101	134	374875	5457869	300	0.3	37	3.5	70	<0.1	16.2	9.7	163	3.18	9.5	<0.5	0.9	5	<0.1	0.4	<0.1
Lacey	L12EBS102	135	374914	5457911	298	<0.1	39.5	2.1	43	<0.1	16.6	14	605	3.51	1.8	1.6	1.6	4	<0.1	<0.1	<0.1
Lacey	L12EBS103	137	374927	5457924	297	0.4	31.4	2.3	31	<0.1	16.3	12.5	137	2.2	10.3	1.6	1	10	<0.1	0.3	<0.1
Lacey	L12EBS104	138	375046	5458075	280	0.3	37.1	2.5	49	<0.1	21.9	13.1	371	3.48	2.3	1	0.8	20	<0.1	0.3	<0.1
Lacey	L12EBS105	139	375023	5458064	280	0.3	52.7	2.4	54	<0.1	32.2	17.8	351	3.89	2.9	<0.5	1	4	<0.1	0.2	<0.1
Lacey	L12EBS106	140	375002	5458052	279	0.8	109.1	6.3	57	0.1	32.5	23	591	5.24	12.5	3.4	0.8	4	<0.1	0.3	<0.1
Lacey	L12EBS107	141	374978	5458040	277	0.2	82.9	2.4	66	<0.1	39.2	24.6	342	4.42	3.3	<0.5	0.7	6	<0.1	0.2	<0.1
Lacey	L12EBS108	142	374954	5458030	275	0.2	57	2.5	44	<0.1	28.8	18.2	404	3.76	3.2	<0.5	1.2	16	<0.1	0.2	<0.1
Lacey	L12EBS109	143	374913	5458022	276	0.2	46.8	3.1	34	<0.1	21.9	10.5	163	4.17	2.7	1.5	1.2	10	<0.1	0.6	<0.1
Lacey	L12EBS110	144	374901	5458027	276	0.1	74.8	2.2	42	<0.1	23.9	15.7	283	3.83	2	2.3	1.3	4	<0.1	0.4	<0.1
Lacey	L12EBS111	145	374357	5457678	214	0.5	51.7	3.6	56	<0.1	26.9	15.1	428	3.79	12.5	6	1.1	12	<0.1	0.4	<0.1
Lacey	L12EBS112	147	376139	5458305	449	0.6	64.9	3.9	35	<0.1	21.6	13	490	3	3	3.7	1.2	10	<0.1	0.2	<0.1
Lacey	L12EBS113	148	376412	5457969	471	0.3	19.8	3.4	43	<0.1	13.6	8	219	2.66	1.9	0.9	0.6	7	<0.1	<0.1	<0.1
Lacey	L12EBS114	149	376607	5457793	480	1.3	96.1	11.5	46	0.2	37.5	20.3	368	3.5	3.3	3.7	1.3	16	0.1	0.5	<0.1
Lacey	L12EBS115	151	375804	5457749	427	0.6	91.9	3.6	72	<0.1	17.3	23.9	967	5.44	6.9	7.7	0.7	8	0.2	1.3	<0.1
Lacey	L12EBS116	152	375819	5457885	436	7.6	172.2	4.8	69	0.1	27.2	22.1	663	5.06	8.1	16	1.2	11	0.2	3.6	0.1
Lacey	L12EBS117	154	375718	5459680	477	3.4	108.4	22.6	52	0.3	38.2	30.7	940	10.11	10	5.8	0.4	6	<0.1	0.4	0.3
Lacey	L12EBS118	155	371553	5462610	457	1.8	55	7.2	287	0.1	45.3	24	1717	18.29	35.1	<0.5	0.9	5	0.4	4.9	<0.1
Lacey	L12EBS119	157	372867	5462556	401	6.1	133.7	64	240	0.4	12.5	37.9	8768	19.82	39	7.7	1.2	21	1.4	34.4	0.1
Lacey	L12EBS120	158	372874	5462560	417	3	90.2	24.6	113	0.2	42.3	28.3	4736	11.81	57.8	7.9	0.7	12	1	14.6	<0.1
Lacey	L12EBS121	159	372808	5462654	412	0.5	56.7	2.8	35	<0.1	27.3	13.6	234	3.47	7.5	<0.5	1	8	<0.1	0.6	<0.1
Lacey	L12EBS122	160	372632	5462972	401	1.2	102.4	11.2	83	0.1	39.1	27.9	2220	5.92	25.8	4.7	0.7	12	0.5	7.5	<0.1
Lacey	L12EBS123	161	372576	5463119	395	1	37.7	11.7	63	<0.1	25.9	7.5	1681	2.18	14.5	4.1	0.3	2	0.7	1.9	<0.1
Lacey	L12EBS124	162	372533	5463170	405	0.5	32.5	2.7	57	<0.1	24.9	9.5	209	2.01	8	<0.5	0.4	3	0.1	0.7	<0.1
Lacey	L12EBS125	163	372518	5463189	398	2.1	48.6	10.2	153	0.4	65.6	21.4	1486	8.14	102	7.1	1.2	4	0.9	31.8	<0.1
Lacey	L12EBS126	165	372431	5463743	400	4.6	109.4	7.9	74	0.5	83.3	25.1	1660	7.49	63.9	<0.5	0.7	8	0.4	9.9	<0.1
Lacey	L12EBS127	198	372758	5460967	314	2.1	12	4.7	211	<0.1	25.6	12.6	1620	10.9	25.1	2.1	0.5	7	0.6	1	<0.1
Lacey	L12EBS128	199	372750	5460726	340	2.7	39.4	6.1	208	<0.1	17.7	39.2	1336	14.08	220.4	1.6	1.1	4	0.2	8.9	<0.1
Lacey	L12EBS129	200	372755	5460730	342	1.4	46.8	5.1	205	<0.1	24.2	29.8	1420	12.33	41.6	<0.5	1	7	0.4	5.3	<0.1
Lacey	L12EBS130	202	373057	5460512	392	3.7	37.5	8.6	228	<0.1	459.5	40.3	2260	15.93	1111.5	0.5	0.8	4	0.4	30	<0.1
Lacey	L12EBS131	203	373131	5460529	391	2.3	33.8	3	32	0.1	74.8	12.5	414	4.05	162.2	5.9	0.7	5	<0.1	17.6	0.1
Lacey	L12EBS132	205	374293	5459819	447	6.5	141.3	11.5	179	0.1	16.2	34.6	2533	9.51	30.1	16.9	1.1	10	0.5	29	<0.1
Lacey	L12EBS133	206	374522	5459619	420	5.7	53.9	7.6	58	0.3	5.8	13.4	1616	6.57	14	12.4	1.2	15	0.3	3.2	<0.1
Lacey	L12EBS134	207	374553	5459617	432	0.4	65.5	5.3	50	0.1	45	15.2	352	4.35	25	8.8	0.9	8	0.2	6.8	<0.1
Lacey	L12EBS135	208	374561	5459596	432	0.4	51.5	6.8	82	<0.1	109.4	37.7	1419	8.55	6	3.4	0.9	3	0.4	3.6	<0.1
Lacey	L12EBS136	209	374570	5459585	432	0.5	248.1	8.7	58	0.1	92.7	36.9	971	7.42	21.6	705	0.5	2	0.2	5.5	<0.1
Lacey	L12EBS137	210	374588	5459551	434	0.3	103.5	6	109	0.2	169.6	44.7	1387	7.12	7.2	2	1	7	0.4	6.3	<0.1
Lacey	L12EBS138	211	374633	5459531	441	1.5	66.6	5.2	54	0.2	60.3	23.8	805	6.11	14	3.6	0.6	7	<0.1	9.1	<0.1
Lacey	L12EBS139	212	374648	5459522	435	1.5	509.1	22.5	133	0.1	102.6	56.8	2959	21.39	15.6	10.4	1.8	4	0.8	3.2	<0.1
Lacey	L12EBS140	213	374664	5459508	436	0.6	128.4	6.4	60	0.1	87	31.1	891	7.47	8.7	8.3	0.9	8	0.2	6.7	<0.1
Lacey	L12EBS141	214	374688	5459500	438	0.2	106.6	3	63	0.1	148	32.5	297	4.21	96.8	2.2	0.4	4	0.2	29.2	<0.1
Lacey	L12EBS142	215	374704	5459500	437	1	110.1	35.2	127	0.2	149.1	38.4	2591	9.46	39.3	3	1	8	1.7	13.2	<0.1
Lacey	L12EBS143	216	374725	5459484	436	1.6	72.8	4.9	76	0.1	97.4	30.4	1041	6.07	158.3	3.8	1	12	0.2	25.1	<0.1
Lacey	L12EBS144	217	374743	5459469	427	8.7	144.4	19.9	160	0.2	81.2	52.6	4666	16.03	70.7	13.1	1.7	7	0.6	22.8	0.1

Project	Sample	Wayppoint	83Z10E	83Z10N	Altitude	ppm Mo	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Ni	ppm Co	ppm Mn	% Fe	ppm As	ppb Au	ppm Th	ppm Sr	ppm Cd	ppm Sb	ppm Bi
Lacey	L12EBS145	218	374763	5459462	424	8.6	87.9	8.6	118	<0.1	92.7	43.3	2161	9.42	4.1	2.5	1.3	11	0.5	4	<0.1
Lacey	L12EBS146	219	374906	5459472	433	0.8	140.6	6.1	116	<0.1	87.1	25.8	221	9.54	88.7	4.9	0.8	6	<0.1	18.2	<0.1
Lacey	L12EBS147	220	375054	5459463	426	1.1	119.7	4.7	79	<0.1	42.6	23.6	1080	5.48	26.7	3.1	1.1	12	0.2	7	<0.1
Limestone	LS12EBS01	168	377601	5440215	1039	3.8	176.9	95.3	271	4.2	32.8	37.3	513	7.52	40.4	33.3	0.2	145	2.9	0.5	0.7
Limestone	LS12EBS02	169	377455	5440265	991	1.2	252.3	6.4	110	1.5	69.6	44.2	642	9.86	37.2	18.2	0.6	13	0.4	5.9	0.1
Limestone	LS12EBS03	171	377457	5440233	986	4.2	193.4	6.7	98	2.2	96.3	33.7	1720	7.4	39.9	21.1	0.4	11	1.3	3.5	<0.1
Limestone	LS12EBS04	173	377472	5440169	982	1.3	162.2	8.1	119	2.4	86.9	30.7	567	7.38	73.3	3.1	0.6	12	0.7	5.3	0.1
Limestone	LS12EBS05	174	377468	5440151	987	4.7	211.3	19.3	127	3.5	129.7	35.3	1856	9.81	163	9.2	0.6	7	2.8	38.7	<0.1
Limestone	LS12EBS06	177	377450	5440097	973	1.4	176.2	6.9	79	1.4	168.2	38	754	7.9	122.8	10.3	0.4	10	0.3	14.4	<0.1
Limestone	LS12EBS07	178	377382	5440146	962	1.1	165.6	6.4	129	1	54.4	33.6	1082	10.13	27.9	11.8	0.5	7	0.1	2.9	<0.1
Limestone	LS12EBS08	179	377390	5440139	964	1	196	5.6	121	0.7	92.2	41.2	790	9.06	25.4	171.4	0.6	9	0.2	3.1	<0.1
Limestone	LS12EBS09	182	377341	5440190	959	1.8	184.3	8.4	119	0.3	56.3	31.2	930	6.78	18.5	5.9	0.6	15	0.7	1.7	0.1
Limestone	LS12EBS10	185	377306	5440216	962	1.1	180.3	7	72	0.6	48.4	40	1134	7.9	14.5	18.5	0.6	12	0.3	1.6	0.5
Limestone	LS12EBS11	186	377286	5440236	967	0.9	149.9	3.3	100	0.9	35.9	19	414	5.24	9	4.5	0.5	9	0.3	0.8	0.2
Limestone	LS12EBS12	187	377253	5440282	969	0.8	189.5	5.8	77	0.9	33.1	23.2	553	6.69	16.6	15.9	0.5	12	0.4	1.6	0.2
Limestone	LS12EBS13	189	377291	5440608	950	1.4	188.2	8.3	54	0.7	29	19.7	1191	9.38	19	152.7	0.8	9	0.1	5.1	<0.1
Limestone	LS12EBS14	190	377341	5440602	944	1.3	170.3	3.2	74	0.1	49.8	24.2	471	7.86	8.7	14	1.1	22	0.1	1.2	<0.1
Limestone	LS12EBS15	191	377354	5440590	941	1.2	153.3	2.4	57	<0.1	45.2	19.7	434	7.89	8.5	21.3	1.2	27	<0.1	0.6	<0.1

Project	Sample	ppm V	% Ca	% P	ppm La	ppm Cr	% Mg	ppm Ba	% Ti	ppm B	% Al	% Na	% K	ppm W	ppm Hg	ppm Sc	ppm Tl	% S	ppm Ga	ppm Se	ppm Te
Lacey	L12EBS01	155	0.27	0.034	13	107	0.64	100	0.028	4	2.46	0.004	0.04	0.1	0.17	24.9	<0.1	<0.05	6	1	<0.2
Lacey	L12EBS02	163	0.28	0.075	6	57	0.54	151	0.165	3	3.38	0.007	0.03	0.1	0.34	8.6	<0.1	<0.05	10	0.6	<0.2
Lacey	L12EBS03	183	0.23	0.072	7	109	0.65	155	0.109	3	3.95	0.006	0.03	0.2	0.5	8.8	0.1	<0.05	10	<0.5	<0.2
Lacey	L12EBS04	176	0.12	0.055	8	159	1.26	215	0.005	2	3.16	0.004	0.04	0.1	0.57	16.7	0.1	<0.05	8	<0.5	<0.2
Lacey	L12EBS05	145	0.09	0.068	8	232	0.46	145	0.007	3	2.26	0.003	0.06	0.3	1.97	22.5	<0.1	<0.05	5	<0.5	<0.2
Lacey	L12EBS06	122	0.22	0.118	18	146	0.26	152	0.005	3	1.2	0.003	0.07	0.3	2.49	23.8	<0.1	<0.05	3	<0.5	<0.2
Lacey	L12EBS07	217	0.15	0.058	18	247	0.53	116	0.008	3	1.46	0.002	0.04	0.2	5.23	55	<0.1	<0.05	4	<0.5	<0.2
Lacey	L12EBS08	144	0.55	0.051	27	143	3.15	156	0.088	5	3.54	0.006	0.05	<0.1	0.51	44.8	<0.1	<0.05	11	0.5	<0.2
Lacey	L12EBS09	212	0.43	0.026	8	74	0.89	194	0.304	3	3.72	0.012	0.02	<0.1	0.16	18.5	<0.1	<0.05	11	<0.5	<0.2
Lacey	L12EBS10	179	0.56	0.043	6	64	0.86	86	0.291	4	3.81	0.01	0.03	0.1	0.16	14	<0.1	<0.05	11	0.6	<0.2
Lacey	L12EBS11	193	0.42	0.044	9	66	0.69	104	0.27	3	3.95	0.01	0.02	<0.1	0.21	15.4	<0.1	<0.05	11	0.5	<0.2
Lacey	L12EBS12	197	0.64	0.04	9	70	0.98	102	0.367	4	4.1	0.013	0.03	<0.1	0.18	19.4	<0.1	<0.05	11	<0.5	<0.2
Lacey	L12EBS13	203	0.73	0.038	11	84	0.62	132	0.364	3	4.11	0.014	0.02	<0.1	0.18	22	<0.1	<0.05	13	0.7	<0.2
Lacey	L12EBS14	240	0.47	0.031	7	89	0.75	103	0.416	3	4.54	0.011	0.02	<0.1	0.4	18	<0.1	<0.05	13	0.7	<0.2
Lacey	L12EBS15	72	0.85	0.077	34	30	0.28	50	0.026	2	1.37	0.004	0.03	0.1	0.12	20	<0.1	<0.05	3	<0.5	<0.2
Lacey	L12EBS16	284	0.02	0.089	16	427	0.18	8	0.009	2	1.27	0.002	<0.01	0.6	0.29	46.9	<0.1	<0.05	3	1	<0.2
Lacey	L12EBS17	211	0.33	0.128	42	370	0.59	47	0.034	4	1.57	0.004	0.02	0.4	0.74	36.9	<0.1	<0.05	5	<0.5	<0.2
Lacey	L12EBS18	126	0.2	0.06	5	43	0.41	99	0.119	3	2.7	0.006	0.03	<0.1	0.15	6.9	0.1	<0.05	9	<0.5	<0.2
Lacey	L12EBS19	210	0.4	0.046	12	227	0.38	111	0.001	4	1.73	0.003	0.05	0.1	1.82	44	<0.1	<0.05	4	<0.5	<0.2
Lacey	L12EBS20	90	0.13	0.093	6	51	0.52	21	0.106	2	4.46	0.004	0.02	0.4	0.29	10.8	<0.1	<0.05	6	1.6	<0.2
Lacey	L12EBS21	205	0.18	0.085	9	269	1.53	35	0.025	4	3.6	0.006	0.03	<0.1	0.16	22.1	<0.1	<0.05	10	0.8	<0.2
Lacey	L12EBS22	124	0.21	0.119	11	57	0.14	105	0.005	<1	2.31	0.002	0.05	0.5	0.34	12.8	0.1	<0.05	6	3	<0.2
Lacey	L12EBS23	221	0.17	0.088	5	22	0.36	27	0.013	4	2.72	0.003	0.03	0.3	0.16	12.9	<0.1	<0.05	8	1	<0.2
Lacey	L12EBS24	206	0.05	0.058	4	141	0.14	15	0.004	2	1.73	0.002	0.02	0.4	0.06	15.3	<0.1	<0.05	4	1.5	<0.2
Lacey	L12EBS25	171	0.27	0.057	6	50	0.34	76	0.086	2	2.54	0.006	0.03	<0.1	0.27	8.3	<0.1	<0.05	9	<0.5	<0.2
Lacey	L12EBS26	106	0.28	0.046	7	41	0.53	29	0.146	1	2.84	0.006	0.02	<0.1	0.1	5.4	<0.1	<0.05	7	<0.5	<0.2
Lacey	L12EBS27	161	0.2	0.044	5	83	0.42	62	0.099	3	2.34	0.005	0.02	0.1	0.66	18.4	<0.1	<0.05	7	<0.5	<0.2
Lacey	L12EBS28	233	0.23	0.055	17	23	0.23	82	0.002	3	0.42	0.002	0.05	0.4	1.84	27.5	<0.1	<0.05	1	<0.5	<0.2
Lacey	L12EBS29	222	0.09	0.101	6	51	0.11	126	0.002	4	2.29	0.003	0.03	0.7	11.4	23.3	0.5	<0.05	2	2.1	<0.2
Lacey	L12EBS30	134	0.27	0.069	8	31	0.36	137	0.007	4	2.68	0.006	0.04	0.2	0.49	9.5	0.2	<0.05	6	<0.5	<0.2
Lacey	L12EBS31	144	0.3	0.073	14	19	0.09	199	0.002	3	0.83	0.003	0.07	0.4	5.16	21.8	0.1	<0.05	2	0.9	<0.2
Lacey	L12EBS32	126	0.23	0.12	5	47	0.63	44	0.121	3	4.75	0.008	0.02	0.1	0.43	9.6	<0.1	<0.05	8	1.3	<0.2
Lacey	L12EBS33	116	0.2	0.181	12	41	0.41	114	0.011	4	3.48	0.006	0.06	0.1	0.68	14.5	<0.1	<0.05	6	1.2	<0.2
Lacey	L12EBS34	54	0.22	0.081	24	9	0.05	81	<0.001	4	0.61	0.004	0.04	0.3	0.67	21.8	<0.1	<0.05	1	<0.5	<0.2
Lacey	L12EBS35	122	0.32	0.057	8	69	0.83	73	0.129	3	2.96	0.006	0.02	0.1	0.24	9.9	<0.1	<0.05	8	0.6	<0.2
Lacey	L12EBS36	121	0.3	0.146	6	50	0.65	55	0.115	3	3.76	0.007	0.02	0.1	0.21	8.7	<0.1	<0.05	8	1.1	<0.2
Lacey	L12EBS37	177	0.3	0.101	25	54	0.26	195	0.016	3	0.99	0.003	0.04	1.5	1.56	32.9	0.1	<0.05	3	1.7	<0.2
Lacey	L12EBS38	111	0.49	0.05	8	70	0.77	169	0.129	3	3.35	0.009	0.02	<0.1	0.13	11.4	<0.1	<0.05	9	0.6	<0.2
Lacey	L12EBS39	108	0.37	0.052	6	80	1.08	112	0.17	4	4.2	0.009	0.02	<0.1	0.12	8.4	<0.1	<0.05	9	1.1	<0.2
Lacey	L12EBS40	133	0.31	0.074	8	56	0.68	68	0.186	3	2.81	0.008	0.02	<0.1	0.13	5.9	<0.1	<0.05	8	0.5	<0.2
Lacey	L12EBS41	168	0.09	0.107	12	46	0.29	124	0.022	2	2.64	0.003	0.02	0.4	1.3	22.1	0.3	<0.05	4	3.4	<0.2
Lacey	L12EBS42	137	0.26	0.089	4	67	0.87	46	0.205	4	3.64	0.007	0.02	0.1	0.31	8.7	<0.1	<0.05	7	0.6	<0.2
Lacey	L12EBS43	38	0.13	0.082	21	18	0.04	236	0.002	2	0.67	0.002	0.05	0.2	0.32	21.9	1.7	<0.05	1	0.8	0.2
Lacey	L12EBS44	85	0.3	0.074	23	27	0.58	169	0.026	5	1.77	0.005	0.04	0.1	0.17	13	<0.1	<0.05	5	1.3	<0.2
Lacey	L12EBS45	75	0.12	0.033	10	9	0.05	79	<0.001	5	0.51	0.001	0.02	0.2	1.6	19.4	0.3	<0.05	<1	1.3	<0.2
Lacey	L12EBS46	147	0.33	0.087	4	35	0.85	74	0.121	3	2.42	0.007	0.03	0.2	0.35	11.4	<0.1	<0.05	9	<0.5	<0.2
Lacey	L12EBS47	93	0.21	0.031	8	16	0.36	109	0.014	3	1.38	0.005	0.04	0.1	0.87	20.9	<0.1	<0.05	3	0.8	<0.2
Lacey	L12EBS48	84	1.68	0.04	<1	6	0.64	10	<0.001	8	0.21	0.002	0.04	0.2	0.71	12.9	<0.1	0.36	<1	<0.5	<0.2

Project	Sample	ppm V	% Ca	% P	ppm La	ppm Cr	% Mg	ppm Ba	% Ti	ppm B	% Al	% Na	% K	ppm W	ppm Hg	ppm Sc	ppm Tl	% S	ppm Ga	ppm Se	ppm Te
Lacey	L12EBS49	72	0.27	0.039	17	11	0.04	146	<0.001	3	0.68	0.003	0.04	0.2	0.89	16.7	<0.1	<0.05	1	1	<0.2
Lacey	L12EBS50	90	0.14	0.097	18	14	0.15	183	0.002	3	1.26	0.002	0.04	0.3	0.85	16.7	<0.1	<0.05	2	2.6	<0.2
Lacey	L12EBS51	108	0.31	0.1	18	41	0.38	116	0.019	7	5.17	0.006	0.04	0.2	0.34	15.2	<0.1	<0.05	5	1.8	<0.2
Lacey	L12EBS52	83	0.33	0.061	5	28	0.44	51	0.087	3	1.85	0.005	0.02	<0.1	0.1	4.3	<0.1	<0.05	4	0.7	<0.2
Lacey	L12EBS53	117	0.64	0.054	15	40	0.91	148	0.089	6	2.18	0.009	0.04	0.1	0.62	13.9	<0.1	<0.05	6	0.7	<0.2
Lacey	L12EBS54	145	0.53	0.092	18	78	0.57	197	0.057	5	5.33	0.009	0.05	0.1	0.33	21.4	0.1	<0.05	7	2.2	<0.2
Lacey	L12EBS55	132	0.47	0.063	7	55	0.6	199	0.05	3	3.23	0.009	0.04	<0.1	0.23	8.5	<0.1	<0.05	8	0.5	<0.2
Lacey	L12EBS56	176	0.34	0.074	13	195	1.2	84	0.14	3	2.88	0.007	0.02	0.2	0.49	29.4	<0.1	<0.05	7	1	<0.2
Lacey	L12EBS57	179	0.41	0.1	22	77	0.47	187	0.044	6	3.83	0.008	0.03	0.2	0.41	28.6	<0.1	<0.05	8	2.2	<0.2
Lacey	L12EBS58	422	0.25	0.08	22	470	0.36	257	0.034	9	1.23	0.004	0.02	1	3.28	61.4	<0.1	<0.05	5	1.3	<0.2
Lacey	L12EBS59	132	0.33	0.052	5	57	0.76	65	0.187	4	3.82	0.008	0.02	<0.1	0.17	10.3	<0.1	<0.05	7	0.8	<0.2
Lacey	L12EBS60	159	0.34	0.041	4	52	0.74	80	0.201	3	3.12	0.008	0.02	<0.1	0.2	8.4	<0.1	<0.05	9	<0.5	<0.2
Lacey	L12EBS61	169	0.34	0.08	5	66	0.87	54	0.237	5	4.76	0.009	0.02	0.1	0.2	12	<0.1	<0.05	9	1	<0.2
Lacey	L12EBS62	253	0.36	0.105	16	381	1.22	109	0.01	6	2.6	0.003	0.03	0.2	3.65	56.9	<0.1	<0.05	4	2	<0.2
Lacey	L12EBS63	135	0.5	0.117	5	87	0.86	115	0.143	4	2.67	0.01	0.02	0.1	0.16	6.8	<0.1	<0.05	8	1.4	<0.2
Lacey	L12EBS64	209	0.72	0.166	7	108	0.8	98	0.198	4	3.5	0.009	0.02	0.1	0.15	6.6	<0.1	<0.05	14	1.8	<0.2
Lacey	L12EBS65	134	0.3	0.152	7	59	0.9	59	0.172	4	3.36	0.008	0.02	0.2	0.13	10.7	<0.1	<0.05	8	1.5	<0.2
Lacey	L12EBS66	134	0.38	0.064	5	110	1.12	90	0.182	4	3.07	0.008	0.02	0.1	0.11	9.9	<0.1	<0.05	9	0.6	<0.2
Lacey	L12EBS67	509	0.83	0.154	23	650	0.81	237	0.002	6	1.71	0.005	0.05	0.5	0.75	>100.0	<0.1	<0.05	7	2	0.3
Lacey	L12EBS68	122	0.29	0.105	4	64	0.61	58	0.173	3	3.13	0.007	0.03	<0.1	0.15	6.1	<0.1	<0.05	9	<0.5	<0.2
Lacey	L12EBS69	143	0.22	0.138	4	56	0.47	54	0.185	2	3.48	0.007	0.02	0.1	0.12	5.6	<0.1	<0.05	11	0.7	<0.2
Lacey	L12EBS70	279	0.12	0.228	7	155	0.62	45	0.026	2	3.07	0.003	0.03	0.3	0.91	28.3	<0.1	<0.05	7	1.6	<0.2
Lacey	L12EBS71	173	0.39	0.135	30	73	0.63	311	0.01	5	1.37	0.01	0.07	<0.1	2.33	32.8	<0.1	<0.05	4	<0.5	<0.2
Lacey	L12EBS72	75	0.22	0.042	7	39	0.16	97	0.009	2	1.13	0.003	0.02	0.1	0.38	10.9	<0.1	<0.05	3	<0.5	<0.2
Lacey	L12EBS73	88	0.32	0.09	14	38	0.2	155	0.009	3	1.32	0.004	0.07	0.2	1.21	11	<0.1	<0.05	3	1.1	<0.2
Lacey	L12EBS74	137	0.22	0.04	7	43	0.49	74	0.144	2	3.15	0.007	0.04	<0.1	0.91	7.3	<0.1	<0.05	9	0.7	<0.2
Lacey	L12EBS75	142	0.2	0.109	4	69	0.66	46	0.169	2	4.74	0.009	0.02	0.1	0.17	9.5	<0.1	<0.05	10	0.7	<0.2
Lacey	L12EBS76	134	0.27	0.065	5	60	0.58	126	0.09	3	2.8	0.006	0.03	0.3	0.54	11.6	<0.1	<0.05	7	<0.5	<0.2
Lacey	L12EBS77	103	0.54	0.059	13	38	0.32	264	0.09	2	2.96	0.012	0.04	<0.1	0.12	7.5	0.2	<0.05	9	0.6	<0.2
Lacey	L12EBS78	57	0.33	0.06	38	27	0.31	151	0.027	3	1.91	0.012	0.08	0.1	0.19	6.3	<0.1	<0.05	4	0.5	<0.2
Lacey	L12EBS79	124	0.29	0.042	8	46	0.36	54	0.153	<1	2.83	0.008	0.03	<0.1	0.11	6	<0.1	<0.05	8	0.6	<0.2
Lacey	L12EBS80	52	0.08	0.02	24	8	0.06	53	0.02	<1	1.4	0.004	0.03	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
Lacey	L12EBS81	124	0.27	0.046	4	48	0.55	46	0.201	1	2.95	0.011	0.03	0.1	0.42	8	<0.1	<0.05	8	<0.5	<0.2
Lacey	L12EBS82	93	0.26	0.067	3	36	0.32	31	0.158	<1	2.06	0.006	0.02	<0.1	0.17	5	<0.1	<0.05	7	<0.5	<0.2
	L12EBS83	108	0.27	0.071	4	46	0.43	31	0.181	2	3.15	0.008	0.02	<0.1	0.11	7.8	<0.1	<0.05	7	<0.5	<0.2
Lacey	L12EBS84	133	0.07	0.128	4	55	0.15	63	0.015	1	2.62	0.003	0.05	0.4	1.59	12.5	0.1	<0.05	5	0.8	<0.2
Lacey	L12EBS85	115	0.11	0.053	3	40	0.18	96	0.009	2	1.92	0.004	0.04	0.2	0.91	11.4	<0.1	<0.05	5	<0.5	<0.2
Lacey	L12EBS86	123	0.22	0.048	4	60	0.53	56	0.136	1	2.94	0.009	0.02	<0.1	0.39	6.1	<0.1	<0.05	10	<0.5	<0.2
Lacey	L12EBS87	133	0.23	0.043	3	51	0.39	67	0.062	1	2.28	0.005	0.03	<0.1	0.15	6.1	<0.1	<0.05	9	<0.5	<0.2
Lacey	L12EBS88	120	0.19	0.113	4	59	0.66	39	0.11	1	2.8	0.006	0.03	<0.1	0.13	6.3	<0.1	<0.05	11	<0.5	<0.2
Lacey	L12EBS89	104	0.27	0.123	9	72	0.48	58	0.016	5	2.23	0.003	0.05	0.2	1.54	16.2	<0.1	<0.05	3	0.9	<0.2
Lacey	L12EBS90	112	0.24	0.076	5	44	0.38	34	0.202	<1	2.66	0.007	0.02	<0.1	0.1	7.2	<0.1	<0.05	8	<0.5	<0.2
Lacey	L12EBS91	133	0.37	0.059	3	51	0.42	45	0.204	1	2.35	0.007	0.02	<0.1	0.35	4.9	<0.1	<0.05	9	<0.5	<0.2
Lacey	L12EBS92	135	0.32	0.102	4	46	0.3	31	0.25	1	2.78	0.007	0.02	<0.1	0.1	5.1	<0.1	<0.05	10	<0.5	<0.2
Lacey	L12EBS93	132	0.62	0.086	7	53	0.41	60	0.254	1	5.02	0.008	0.02	<0.1	0.13	8	<0.1	<0.05	10	0.7	<0.2
Lacey	L12EBS94	197	0.09	0.065	8	315	0.23	71	0.002	2	1.97	0.005	0.04	1	0.94	25.3	0.1	<0.05	4	1.6	<0.2
Lacey	L12EBS95	148	0.27	0.056	8	148	0.49	82	0.006	3	1.4	0.006	0.07	0.5	0.99	24.4	<0.1	<0.05	3	<0.5	<0.2
Lacey	L12EBS96	194	0.2	0.05	11	115	0.79	85	0.021	3	2.21	0.007	0.05	0.2	1.15	30.1	<0.1	<0.05	6	<0.5	<0.2

Project	Sample	ppm V	% Ca	% P	ppm La	ppm Cr	% Mg	ppm Ba	% Ti	ppm B	% Al	% Na	% K	ppm W	ppm Hg	ppm Sc	ppm Tl	% S	ppm Ga	ppm Se	ppm Te
Lacey	L12EBS97	80	0.13	0.031	5	30	0.25	107	0.005	2	2.7	0.005	0.05	<0.1	0.19	5.3	<0.1	<0.05	6	<0.5	<0.2
Lacey	L12EBS98	57	0.06	0.026	3	19	0.08	94	0.002	2	2.03	0.006	0.06	<0.1	0.18	4.2	<0.1	<0.05	3	<0.5	<0.2
Lacey	L12EBS99	44	0.03	0.03	2	14	0.05	80	0.002	3	1.99	0.004	0.07	<0.1	0.22	5.2	<0.1	<0.05	3	<0.5	<0.2
Lacey	L12EBS100	50	0.08	0.031	2	15	0.05	81	0.002	2	1.57	0.003	0.07	<0.1	0.14	4.4	<0.1	<0.05	2	<0.5	<0.2
Lacey	L12EBS101	66	0.07	0.032	3	20	0.14	98	0.002	1	2.39	0.004	0.06	<0.1	0.12	5.4	<0.1	<0.05	5	<0.5	<0.2
Lacey	L12EBS102	66	0.04	0.026	8	21	0.09	141	0.004	2	1.63	0.004	0.06	<0.1	0.2	11.6	<0.1	<0.05	3	<0.5	<0.2
Lacey	L12EBS103	43	0.08	0.015	4	15	0.07	174	0.004	1	1.64	0.004	0.06	<0.1	0.11	5.4	<0.1	<0.05	2	<0.5	<0.2
Lacey	L12EBS104	85	0.15	0.021	4	38	0.31	192	0.003	<1	1.94	0.005	0.03	<0.1	0.04	6.2	<0.1	<0.05	7	<0.5	<0.2
Lacey	L12EBS105	94	0.07	0.03	4	52	0.4	115	0.003	2	2.92	0.005	0.03	<0.1	0.11	5.2	<0.1	<0.05	7	<0.5	<0.2
Lacey	L12EBS106	108	0.04	0.062	4	94	0.45	98	<0.001	1	2.58	0.005	0.04	<0.1	0.09	9.9	<0.1	<0.05	8	<0.5	<0.2
Lacey	L12EBS107	86	0.06	0.033	3	67	0.44	109	0.001	2	2.22	0.004	0.04	<0.1	0.05	8.1	<0.1	<0.05	7	<0.5	<0.2
Lacey	L12EBS108	77	0.13	0.015	3	50	0.51	168	0.002	1	1.76	0.005	0.03	<0.1	0.13	7.8	<0.1	<0.05	6	<0.5	<0.2
Lacey	L12EBS109	84	0.1	0.018	2	38	0.2	108	0.003	1	1.45	0.004	0.05	<0.1	0.07	4.4	<0.1	<0.05	4	<0.5	<0.2
Lacey	L12EBS110	75	0.04	0.02	3	34	0.23	72	0.007	<1	1.21	0.004	0.05	<0.1	0.09	6	<0.1	<0.05	4	<0.5	<0.2
Lacey	L12EBS111	76	0.15	0.033	5	33	0.33	131	0.006	2	1.53	0.004	0.04	0.1	0.11	7.5	<0.1	<0.05	4	<0.5	<0.2
Lacey	L12EBS112	94	0.24	0.032	6	37	0.5	71	0.145	1	2.97	0.01	0.04	<0.1	0.09	6	<0.1	<0.05	7	<0.5	<0.2
Lacey	L12EBS113	94	0.2	0.031	3	25	0.18	41	0.161	<1	1.68	0.011	0.01	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
Lacey	L12EBS114	109	0.36	0.032	8	61	0.88	122	0.193	1	3.09	0.01	0.03	0.1	0.34	7.2	<0.1	<0.05	8	<0.5	<0.2
Lacey	L12EBS115	120	0.24	0.049	10	24	1.4	50	0.008	2	2.91	0.005	0.05	<0.1	3.04	15.4	0.3	<0.05	7	0.5	<0.2
Lacey	L12EBS116	120	0.2	0.041	10	58	0.63	106	0.074	1	2.45	0.006	0.03	0.1	0.35	12	<0.1	<0.05	6	0.8	<0.2
Lacey	L12EBS117	51	0.07	0.185	3	19	0.5	55	0.01	1	1.02	0.007	0.03	<0.1	0.18	8.2	<0.1	0.1	4	3	2.9
Lacey	L12EBS118	331	0.11	0.083	9	63	0.31	53	0.067	1	2.25	0.003	0.02	<0.1	0.33	17.9	<0.1	<0.05	6	0.7	<0.2
Lacey	L12EBS119	263	0.38	0.078	27	13	0.23	467	0.003	3	0.61	0.003	0.03	0.6	2.42	25.1	0.1	<0.05	2	0.5	<0.2
Lacey	L12EBS120	257	0.43	0.126	14	87	0.28	141	0.022	2	2.45	0.004	0.03	0.4	2.42	31.5	0.2	<0.05	4	0.8	<0.2
Lacey	L12EBS121	111	0.32	0.029	3	39	0.49	56	0.199	2	2.79	0.009	0.01	<0.1	0.16	8	<0.1	<0.05	7	<0.5	<0.2
Lacey	L12EBS122	143	0.4	0.065	9	71	0.85	107	0.074	3	1.89	0.008	0.03	0.1	1.02	19.8	<0.1	<0.05	6	<0.5	<0.2
Lacey	L12EBS123	10	0.05	0.041	26	6	0.05	43	0.004	<1	0.51	0.002	0.01	<0.1	0.08	6.2	<0.1	<0.05	<1	<0.5	<0.2
Lacey	L12EBS124	42	0.06	0.017	6	14	0.46	30	0.023	<1	1.19	0.002	<0.01	<0.1	0.08	6.5	<0.1	<0.05	3	<0.5	<0.2
Lacey	L12EBS125	106	0.21	0.076	43	56	0.2	32	0.003	4	0.45	0.002	0.02	0.5	0.31	33.7	<0.1	<0.05	<1	<0.5	<0.2
Lacey	L12EBS126	140	0.18	0.071	37	104	0.71	126	0.004	2	1.18	0.003	0.02	0.3	5.37	31	<0.1	<0.05	4	<0.5	<0.2
Lacey	L12EBS127	148	0.18	0.076	6	36	0.19	148	0.01	2	1.12	0.003	0.03	<0.1	0.12	12.4	<0.1	<0.05	3	<0.5	<0.2
Lacey	L12EBS128	292	0.08	0.075	7	33	0.2	69	0.008	<1	1.09	0.004	0.02	0.2	0.24	21.8	0.1	<0.05	3	1.6	<0.2
Lacey	L12EBS129	206	0.18	0.058	12	34	0.29	92	0.085	1	1.88	0.005	0.03	<0.1	0.35	19.1	<0.1	<0.05	6	0.6	<0.2
Lacey	L12EBS130	197	0.13	0.057	20	230	0.16	107	0.003	<1	0.94	0.002	0.02	1	0.39	27	<0.1	<0.05	2	<0.5	<0.2
Lacey	L12EBS131	136	0.13	0.034	10	155	0.07	86	<0.001	<1	0.65	0.001	0.03	2.3	2.02	30.6	<0.1	<0.05	2	<0.5	<0.2
Lacey	L12EBS132	88	0.22	0.149	11	12	0.2	294	0.014	1	1.32	0.004	0.06	0.1	1.04	9.8	<0.1	<0.05	3	<0.5	<0.2
Lacey	L12EBS133	52	0.38	0.156	17	7	0.17	85	0.002	<1	1.32	0.005	0.03	0.1	0.42	11.6	<0.1	<0.05	2	0.6	<0.2
Lacey	L12EBS134	114	0.28	0.052	5	57	0.38	97	0.058	2	2.05	0.007	0.03	0.2	3.47	8.8	<0.1	<0.05	5	<0.5	<0.2
Lacey	L12EBS135	183	0.06	0.104	16	177	0.37	44	0.018	<1	1.14	0.004	0.02	<0.1	1.53	19.1	<0.1	<0.05	3	<0.5	<0.2
Lacey	L12EBS136	129	0.04	0.091	14	136	0.52	36	0.004	<1	1.22	0.007	0.01	<0.1	1.2	34	<0.1	<0.05	3	<0.5	<0.2
Lacey	L12EBS137	182	0.22	0.105	10	198	0.39	69	0.052	1	1.52	0.006	0.02	0.1	1.75	22.1	<0.1	<0.05	4	<0.5	<0.2
Lacey	L12EBS138	160	0.15	0.079	7	122	0.67	79	0.019	<1	2.34	0.006	0.03	0.1	1.41	18.4	<0.1	<0.05	6	<0.5	<0.2
Lacey	L12EBS139	214	0.14	0.149	28	169	0.94	57	0.015	2	3.48	0.003	<0.01	0.1	0.8	54	<0.1	<0.05	4	2.2	<0.2
Lacey	L12EBS140	134	0.17	0.059	11	97	0.5	89	0.035	2	2.09	0.005	0.03	<0.1	0.82	18.9	<0.1	<0.05	5	0.9	<0.2
Lacey	L12EBS141	72	0.05	0.036	6	103	0.13	40	0.001	<1	0.74	0.005	0.02	0.6	0.56	14.2	<0.1	<0.05	1	1	<0.2
Lacey	L12EBS142	184	0.21	0.08	16	99	0.22	96	0.025	3	1.41	0.004	0.03	0.1	0.83	33.7	<0.1	<0.05	4	1	<0.2
Lacey	L12EBS143	97	0.24	0.071	7	62	0.37	92	0.044	2	2.16	0.01	0.04	0.2	0.46	10.3	<0.1	<0.05	5	0.5	<0.2
Lacey	L12EBS144	86	0.22	0.147	28	43	0.15	134	0.004	2	1.75	0.004	0.02	3.3	2.64	26.2	0.1	<0.05	2	3.3	<0.2

Project	Sample	ppm V	% Ca	% P	ppm La	ppm Cr	% Mg	ppm Ba	% Ti	ppm B	% Al	% Na	% K	ppm W	ppm Hg	ppm Sc	ppm Tl	% S	ppm Ga	ppm Se	ppm Te
Lacey	L12EBS145	54	0.35	0.099	13	45	0.18	52	0.002	3	0.56	0.006	0.06	<0.1	0.18	14.3	<0.1	<0.05	1	<0.5	<0.2
Lacey	L12EBS146	207	0.08	0.066	5	198	0.31	36	0.002	2	2.2	0.004	0.03	0.2	1.68	23.5	<0.1	<0.05	4	1.3	<0.2
Lacey	L12EBS147	166	0.23	0.086	5	59	0.44	63	0.082	2	2.05	0.008	0.03	0.2	0.62	14.4	<0.1	<0.05	6	0.8	<0.2
Limestone	LS12EBS01	215	2.36	0.058	5	47	0.44	38	0.093	2	4.17	0.007	0.02	<0.1	2.09	13.7	<0.1	<0.05	10	1.2	1.2
Limestone	LS12EBS02	210	0.21	0.094	4	92	0.76	49	0.013	2	4.55	0.009	0.05	<0.1	0.24	17.5	0.1	<0.05	11	1.2	<0.2
Limestone	LS12EBS03	169	0.38	0.09	10	123	1	45	0.006	2	3.38	0.009	0.05	<0.1	0.21	21.7	0.1	<0.05	10	0.8	<0.2
Limestone	LS12EBS04	181	0.19	0.081	3	111	0.76	50	0.014	2	4.08	0.008	0.05	<0.1	0.2	12.8	0.1	<0.05	11	0.7	<0.2
Limestone	LS12EBS05	141	0.33	0.045	6	87	0.19	62	0.002	2	1.24	0.004	0.07	0.1	0.33	33.1	0.1	<0.05	3	1	<0.2
Limestone	LS12EBS06	185	0.15	0.026	4	168	1.22	56	0.009	3	3.57	0.007	0.05	0.1	0.17	31	0.1	<0.05	8	0.7	<0.2
Limestone	LS12EBS07	204	0.07	0.154	4	86	0.95	43	0.007	2	4.5	0.006	0.06	<0.1	0.27	14.2	0.2	<0.05	12	1.2	<0.2
Limestone	LS12EBS08	245	0.08	0.106	4	149	1.77	43	0.024	2	5.13	0.006	0.04	<0.1	0.18	17.8	<0.1	<0.05	14	0.9	<0.2
Limestone	LS12EBS09	164	0.36	0.075	5	79	0.99	65	0.053	3	3.32	0.009	0.05	0.1	0.16	11.6	<0.1	<0.05	11	0.6	<0.2
Limestone	LS12EBS10	157	0.22	0.076	5	62	1.19	48	0.054	2	3.03	0.008	0.05	0.1	0.15	13.9	<0.1	<0.05	10	1.2	<0.2
Limestone	LS12EBS11	129	0.12	0.055	5	46	0.74	57	0.011	2	3.79	0.01	0.04	0.2	0.12	7.2	<0.1	<0.05	11	<0.5	<0.2
Limestone	LS12EBS12	152	0.15	0.061	4	45	0.65	32	0.038	2	2.79	0.008	0.03	<0.1	0.29	9.7	<0.1	<0.05	9	0.5	<0.2
Limestone	LS12EBS13	247	0.15	0.187	4	75	0.83	107	0.409	2	4.68	0.007	0.02	0.6	1.76	15.7	<0.1	<0.05	13	1.4	0.4
Limestone	LS12EBS14	259	0.21	0.064	5	101	1.2	29	0.563	2	5.91	0.009	0.01	0.3	0.21	18	<0.1	<0.05	14	1.5	<0.2
Limestone	LS12EBS15	221	0.29	0.086	6	102	1.26	28	0.588	3	6.82	0.011	0.01	0.3	0.27	21.3	<0.1	<0.05	13	1.9	<0.2

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Client: **Mammoth Geological Ltd.**
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Mill Bay BC V0R 2P4 Canada

Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: June 21, 2012
Report Date: July 06, 2012
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN12002836.1

CLIENT JOB INFORMATION

Project: LACY/LIMESTONE
Shipment ID:
P.O. Number
Number of Samples: 58

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	58	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	58	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: Mammoth Geological Ltd.
2446 Bidston Road
Mill Bay BC V0R 2P4
Canada

CC: Gary Wesa
Ed Balon

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: LACY/LIMESTONE
Report Date: July 06, 2012

CERTIFICATE OF ANALYSIS VAN12002836.1

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
L12EBR01	Rock	2.29	0.7	9.7	3.2	64	<0.1	12.4	29.6	1181	6.09	31.3	<0.5	0.4	102	0.1	2.1	<0.1	152	7.33	0.058
L12EBR02	Rock	2.54	0.7	1.5	1.1	24	<0.1	21.4	3.1	388	1.51	35.8	<0.5	0.4	43	<0.1	1.4	<0.1	27	3.34	0.033
L12EBR03	Rock	1.82	0.2	3.1	0.7	18	<0.1	15.4	5.9	163	1.46	19.8	<0.5	0.3	2	<0.1	0.8	<0.1	17	0.10	0.013
L12EBR04	Rock	2.05	0.2	5.1	2.0	17	<0.1	17.0	5.7	145	1.39	16.5	1.0	0.2	4	<0.1	0.4	<0.1	15	0.14	0.014
L12EBR05	Rock	0.54	1.0	955.9	>10000	3229	15.6	12.5	8.7	344	2.10	48.4	276.9	0.1	24	362.6	>2000	<0.1	43	0.73	0.079
L12EBR06	Rock	2.24	3.2	18.3	6.2	104	0.2	7.4	39.5	1569	10.02	94.1	1.1	0.8	61	0.3	40.0	<0.1	192	5.12	0.131
L12EBR07	Rock	1.67	0.3	12.9	288.8	26	0.2	8.9	4.1	58	0.83	6.1	4.4	0.2	4	1.6	99.9	<0.1	8	0.17	0.036
L12EBR08	Rock	1.86	0.4	9.7	2.9	11	0.1	6.6	2.9	173	0.95	6.1	0.8	<0.1	68	<0.1	2.0	<0.1	20	3.23	0.012
L12EBR09	Rock	1.23	0.7	14.7	16.7	48	<0.1	11.0	4.0	211	1.58	26.2	<0.5	0.1	1	0.3	8.2	<0.1	7	0.06	0.016
L12EBR10	Rock	1.59	1.2	47.6	2.0	25	<0.1	26.5	14.9	753	2.41	20.7	<0.5	0.1	10	<0.1	0.7	<0.1	93	0.44	0.058
L12EBR11	Rock	1.35	5.1	137.5	7.3	90	<0.1	82.3	44.6	3113	7.52	56.1	4.7	0.8	8	0.3	13.0	0.2	220	0.33	0.061
L12EBR12	Rock	2.12	0.8	22.6	5.2	83	0.7	24.6	6.3	120	1.94	97.5	1.6	0.3	7	0.3	3.0	<0.1	23	0.17	0.032
L12EBR13	Rock	2.06	0.2	13.5	3.3	101	<0.1	74.8	31.4	1681	5.78	7.4	<0.5	0.4	190	0.4	2.8	<0.1	145	11.58	0.091
L12EBR14	Rock	2.39	0.2	11.6	0.7	14	<0.1	29.0	10.7	686	1.57	15.5	<0.5	<0.1	582	<0.1	0.3	<0.1	37	15.50	0.024
L12EBR15	Rock	2.60	0.3	36.0	1.8	31	<0.1	67.2	23.4	880	3.40	49.0	<0.5	0.4	275	<0.1	0.9	<0.1	78	10.21	0.065
L12EBR16	Rock	1.59	1.0	11.6	2.9	34	0.4	11.8	3.1	137	1.39	10.2	2.0	0.2	12	<0.1	4.1	<0.1	27	0.42	0.134
L12EBR17	Rock	2.09	0.5	14.0	4.5	55	0.3	20.8	5.5	102	2.54	25.7	<0.5	0.2	3	<0.1	1.3	<0.1	17	0.07	0.033
L12EBR18	Rock	1.86	2.5	1.9	5.1	102	<0.1	83.8	23.0	1434	4.20	120.0	<0.5	0.3	263	0.5	1.5	<0.1	74	15.91	0.049
L12EBR19	Rock	1.76	0.9	3.2	2.1	52	<0.1	9.6	34.5	1594	9.26	2.5	3.1	0.3	40	<0.1	1.2	1.0	85	2.57	0.062
L12EBR20	Rock	2.01	0.7	101.4	2.0	79	0.1	13.4	18.1	1246	4.02	24.3	0.5	0.5	199	0.4	10.8	<0.1	73	8.33	0.119
L12EBR21	Rock	1.11	0.1	33.4	0.5	10	<0.1	1.7	2.2	345	0.74	7.8	<0.5	<0.1	2	<0.1	11.0	<0.1	6	0.14	0.004
L12EBR22	Rock	2.12	1.0	35.5	5.4	78	0.1	7.5	11.4	1690	4.15	14.7	<0.5	0.4	274	0.2	7.1	<0.1	41	11.34	0.039
L12EBR23	Rock	2.08	0.2	12.7	1.2	17	<0.1	4.7	4.6	409	1.19	2.8	1.7	<0.1	23	<0.1	0.3	<0.1	10	1.35	0.010
L12EBR24	Rock	2.68	8.9	2602	5.5	508	1.7	15.5	20.7	1099	3.88	630.1	23.5	0.3	91	4.6	560.3	0.1	44	1.38	0.046
L12EBR25	Rock	1.61	2.1	75.6	9.5	64	0.2	21.2	18.2	853	4.30	27.8	21.9	0.6	50	<0.1	18.9	0.1	44	2.69	0.037
L12EBR26	Rock	0.77	1.1	14.6	1.8	13	<0.1	3.0	1.9	186	0.94	7.4	1.4	<0.1	3	<0.1	4.5	<0.1	9	0.08	0.006
L12EBR27	Rock	1.32	1.0	63.5	3.1	53	<0.1	112.0	30.4	1085	3.74	34.1	1.4	0.3	415	0.2	11.4	<0.1	127	10.86	0.048
L12EBR28	Rock	1.90	1.4	51.2	10.3	69	0.3	28.6	4.1	197	3.41	23.5	1.2	1.1	13	0.3	0.7	<0.1	115	0.69	0.305
L12EBR29	Rock	1.80	1.1	52.0	6.9	22	1.2	14.0	2.4	265	8.29	408.9	92.8	0.5	28	<0.1	1.1	<0.1	76	0.44	0.127
L12EBR30	Rock	1.95	0.4	9.5	1.0	14	<0.1	10.0	2.8	423	1.30	15.3	3.9	<0.1	66	0.1	6.0	<0.1	17	1.49	0.009

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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
L12EBR01	Rock	7	5	1.89	37	<0.001	10	0.41	0.004	0.14	0.4	0.08	15.9	<0.1	0.42	1	<0.5	<0.2
L12EBR02	Rock	7	7	0.72	12	<0.001	8	0.40	0.005	0.03	<0.1	<0.01	5.4	<0.1	<0.05	<1	<0.5	<0.2
L12EBR03	Rock	6	7	0.17	60	<0.001	3	0.35	0.008	0.05	<0.1	<0.01	1.7	<0.1	0.13	1	<0.5	<0.2
L12EBR04	Rock	4	11	0.43	52	0.001	2	0.61	0.012	0.05	<0.1	<0.01	1.3	<0.1	0.20	2	0.6	0.2
L12EBR05	Rock	11	7	0.52	90	0.001	3	0.98	0.004	0.19	<0.1	14.47	3.9	0.1	1.47	3	9.6	<0.2
L12EBR06	Rock	11	1	0.65	92	0.002	10	0.89	0.002	0.10	0.6	0.37	18.8	<0.1	0.67	2	2.8	<0.2
L12EBR07	Rock	6	6	0.21	21	<0.001	2	0.35	0.003	0.08	<0.1	0.14	1.0	<0.1	0.09	<1	<0.5	<0.2
L12EBR08	Rock	3	13	0.22	12	<0.001	2	0.33	0.016	0.02	<0.1	0.02	1.6	<0.1	0.19	1	<0.5	<0.2
L12EBR09	Rock	3	5	0.08	14	<0.001	2	0.27	0.003	0.05	<0.1	0.06	2.0	<0.1	<0.05	<1	0.6	<0.2
L12EBR10	Rock	5	82	1.22	8	0.122	<1	1.37	0.064	<0.01	<0.1	0.02	8.3	<0.1	<0.05	6	<0.5	<0.2
L12EBR11	Rock	8	156	0.10	453	<0.001	8	1.57	0.003	0.15	0.6	6.24	32.2	0.2	<0.05	3	1.0	<0.2
L12EBR12	Rock	6	12	0.41	128	0.002	3	0.68	0.017	0.09	<0.1	0.07	2.2	<0.1	0.18	2	0.7	<0.2
L12EBR13	Rock	5	148	2.99	154	<0.001	10	0.72	0.005	0.10	0.2	1.01	28.9	<0.1	0.54	<1	1.2	<0.2
L12EBR14	Rock	4	58	1.27	19	<0.001	2	0.91	0.003	0.03	<0.1	0.02	4.2	<0.1	<0.05	3	<0.5	<0.2
L12EBR15	Rock	5	165	3.75	38	<0.001	7	0.94	0.008	0.07	<0.1	0.06	14.0	<0.1	0.06	2	<0.5	<0.2
L12EBR16	Rock	10	13	0.13	36	0.003	1	0.32	0.026	0.03	0.5	0.02	2.1	<0.1	0.09	1	0.5	<0.2
L12EBR17	Rock	6	12	0.14	18	<0.001	3	0.45	0.010	0.10	<0.1	0.08	1.9	<0.1	0.31	1	1.9	<0.2
L12EBR18	Rock	4	108	3.11	14	<0.001	7	0.39	0.007	0.11	0.2	0.02	9.8	<0.1	0.22	<1	<0.5	<0.2
L12EBR19	Rock	3	6	1.28	29	<0.001	7	0.93	0.011	0.28	<0.1	0.18	11.6	<0.1	3.61	2	2.7	0.5
L12EBR20	Rock	6	12	2.51	50	<0.001	9	0.78	0.007	0.24	0.2	1.53	7.0	<0.1	<0.05	1	<0.5	<0.2
L12EBR21	Rock	<1	5	0.09	20	<0.001	2	0.16	0.005	0.04	<0.1	6.80	1.5	<0.1	<0.05	<1	<0.5	<0.2
L12EBR22	Rock	6	6	3.35	37	<0.001	11	0.64	0.009	0.15	0.1	0.18	7.1	<0.1	0.21	1	<0.5	<0.2
L12EBR23	Rock	<1	9	0.27	25	<0.001	2	0.46	0.005	0.05	<0.1	0.06	1.4	<0.1	0.08	1	<0.5	<0.2
L12EBR24	Rock	2	4	0.41	83	<0.001	11	0.52	0.019	0.12	0.1	21.98	6.7	<0.1	0.67	<1	1.2	<0.2
L12EBR25	Rock	4	7	0.95	97	<0.001	14	0.58	0.018	0.19	<0.1	1.87	7.4	<0.1	1.42	1	1.4	<0.2
L12EBR26	Rock	<1	6	0.17	94	0.001	2	0.27	0.013	0.03	<0.1	0.33	0.7	<0.1	<0.05	<1	<0.5	<0.2
L12EBR27	Rock	4	240	3.37	1015	<0.001	9	0.68	0.008	0.05	0.1	2.08	20.3	<0.1	0.06	1	<0.5	<0.2
L12EBR28	Rock	6	47	0.97	270	0.062	3	1.37	0.004	0.07	0.3	0.10	2.2	<0.1	0.52	5	4.1	<0.2
L12EBR29	Rock	4	33	0.34	24	0.026	<1	0.68	<0.001	0.02	<0.1	0.07	1.8	<0.1	2.84	4	3.3	<0.2
L12EBR30	Rock	1	16	0.49	18	<0.001	4	0.11	0.003	0.04	<0.1	0.26	3.1	<0.1	<0.05	<1	<0.5	<0.2

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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
L12EBR31	Rock	1.97	0.1	25.3	2.9	12	<0.1	3.3	6.1	202	2.70	5.5	3.5	1.3	4	<0.1	0.1	<0.1	44	0.04	0.007
L12EBR32	Rock	2.18	0.1	31.4	5.5	10	<0.1	2.5	12.0	440	3.44	10.7	<0.5	1.3	3	<0.1	0.1	<0.1	40	0.04	0.009
L12EBR33	Rock	2.28	<0.1	28.3	3.0	19	<0.1	4.9	16.7	569	3.31	10.2	1.7	1.1	3	<0.1	0.2	<0.1	45	0.04	0.006
L12EBR34	Rock	0.47	0.1	6.9	1.2	5	<0.1	5.5	5.0	114	0.72	11.1	<0.5	0.2	1	<0.1	0.2	<0.1	8	0.03	0.003
L12EBR35	Rock	1.19	0.1	5.4	3.8	11	<0.1	2.1	0.6	710	1.18	1.8	<0.5	<0.1	1	<0.1	2.0	<0.1	8	0.02	0.003
L12EBR36	Rock	2.59	0.5	1.9	0.6	12	<0.1	1.9	1.1	374	1.06	2.0	<0.5	0.2	2	<0.1	0.7	<0.1	3	0.03	0.006
L12EBR37	Rock	3.32	8.3	7.5	2.3	11	<0.1	46.1	55.0	135	16.65	<0.5	7.1	0.3	2	<0.1	0.2	0.9	27	0.05	0.025
L12EBR38	Rock	2.05	0.7	22.1	1.8	74	<0.1	26.0	31.8	1182	5.86	74.1	<0.5	0.8	81	0.1	6.2	<0.1	144	4.12	0.056
L12EBR39	Rock	2.21	<0.1	76.6	2.1	57	<0.1	46.1	37.2	907	5.03	97.8	2.5	0.3	200	0.2	19.7	<0.1	107	8.99	0.048
L12EBR40	Rock	2.04	0.7	33.3	4.9	207	<0.1	133.0	26.1	2457	8.66	204.3	1.1	0.4	80	0.9	8.9	<0.1	77	3.36	0.058
L12EBR41	Rock	1.86	2.1	75.5	3.9	116	<0.1	151.2	35.0	1848	6.24	207.0	2.9	0.4	7	0.3	8.2	<0.1	74	0.24	0.058
L12EBR42	Rock	1.78	1.6	24.8	2.2	86	<0.1	26.3	46.1	963	4.66	89.5	<0.5	1.1	115	0.4	5.0	<0.1	157	6.65	0.080
L12EBR43	Rock	2.40	1.2	13.7	2.4	35	<0.1	4.8	29.5	715	3.97	31.0	126.9	0.7	74	0.1	5.0	0.1	31	3.33	0.138
LS12EBR01	Rock	2.42	<0.1	1872	1.9	55	0.4	12.2	14.3	407	2.42	2.6	14.8	0.2	112	0.1	0.3	<0.1	70	0.80	0.045
LS12EBR02	Rock	1.98	0.2	27.5	1.8	26	<0.1	17.3	9.7	354	1.78	2.4	<0.5	<0.1	184	0.2	0.5	<0.1	85	5.38	0.021
LS12EBR03	Rock	2.45	12.2	251.5	58.3	36	4.3	37.3	25.0	492	29.33	637.5	210.8	0.2	<1	0.7	2.0	<0.1	155	0.06	0.040
LS12EBR04	Rock	1.97	121.8	331.1	43.4	43	1.6	33.9	24.7	864	2.13	66.3	303.7	<0.1	1	0.3	32.4	<0.1	81	0.05	0.021
LS12EBR05	Rock	1.92	0.9	32.4	1.3	29	<0.1	31.1	11.1	663	2.13	6.3	10.6	<0.1	4	0.3	0.7	<0.1	32	0.79	0.009
LS12EBR06	Rock	2.53	0.8	57.9	1.8	34	0.2	39.1	19.3	486	4.25	20.4	6.1	0.7	17	<0.1	0.2	<0.1	145	3.01	0.100
LS12EBR07	Rock	2.53	0.6	129.8	3.7	29	0.2	3.3	13.1	448	3.36	18.9	13.3	0.6	17	0.3	0.1	0.2	74	2.20	0.061
LS12EBR08	Rock	1.84	1.0	179.6	3.1	46	0.2	57.3	47.6	1398	8.86	2.3	7.7	0.1	25	<0.1	0.7	1.2	252	2.11	0.082
LS12EBR09	Rock	1.85	0.2	217.0	2.7	66	0.2	50.7	33.2	953	6.43	10.1	4.3	0.2	26	0.3	0.8	<0.1	95	2.22	0.062
LS12EBR10	Rock	2.62	0.9	244.6	7.3	85	0.3	46.6	27.3	670	10.72	2.4	15.0	0.2	4	<0.1	0.5	0.1	311	0.24	0.084
LS12EBR11	Rock	2.41	4.0	760.0	3.1	80	0.7	75.8	39.1	358	6.74	28.2	31.7	0.3	27	1.0	0.4	1.5	110	1.33	0.053
LS12EBR12	Rock	3.07	0.6	2421	12.5	118	7.0	71.1	210.8	199	23.86	263.0	24.9	<0.1	16	2.0	0.9	2.1	83	0.42	0.030
LS12EBR13	Rock	1.58	0.5	293.9	4.2	49	0.2	54.5	55.6	824	5.32	11.2	24.4	0.1	18	0.1	0.5	0.1	192	0.86	0.064
BP-R1	Rock	1.80	0.3	119.1	2.3	44	0.3	25.7	18.4	909	3.80	4.7	10.3	0.3	66	0.3	0.9	0.1	107	5.75	0.049
BP-R2	Rock	1.74	3.3	6.2	2.0	76	<0.1	26.1	27.0	2892	11.99	5.2	<0.5	<0.1	44	1.2	0.7	<0.1	76	24.33	0.006

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Client: **Mammoth Geological Ltd.**
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Mill Bay BC V0R 2P4 Canada

Project: LACY/LIMESTONE
Report Date: July 06, 2012

CERTIFICATE OF ANALYSIS VAN12002836.1

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
L12EBR31	Rock	5	15	0.03	62	<0.001	4	1.26	0.013	0.12	<0.1	0.43	5.5	<0.1	<0.05	2	<0.5	<0.2
L12EBR32	Rock	8	13	0.03	78	<0.001	4	1.29	0.006	0.16	<0.1	0.42	10.4	<0.1	<0.05	2	<0.5	<0.2
L12EBR33	Rock	4	14	0.03	111	<0.001	3	1.19	0.010	0.12	<0.1	0.32	10.1	<0.1	<0.05	2	<0.5	<0.2
L12EBR34	Rock	<1	9	0.02	39	<0.001	3	0.17	0.006	0.04	<0.1	0.08	1.0	<0.1	<0.05	<1	<0.5	<0.2
L12EBR35	Rock	1	5	<0.01	14	<0.001	2	0.05	0.003	<0.01	<0.1	0.06	2.3	<0.1	<0.05	<1	<0.5	<0.2
L12EBR36	Rock	3	6	0.01	35	<0.001	4	0.12	0.003	0.06	<0.1	0.05	1.2	<0.1	<0.05	<1	<0.5	<0.2
L12EBR37	Rock	<1	12	0.41	9	0.104	2	0.63	0.002	0.25	0.1	0.05	2.4	<0.1	>10	1	17.0	2.9
L12EBR38	Rock	6	30	1.40	30	<0.001	7	0.82	0.003	0.09	<0.1	0.12	15.7	<0.1	0.11	2	<0.5	<0.2
L12EBR39	Rock	3	84	2.34	35	<0.001	9	0.79	0.013	0.05	<0.1	0.70	21.7	<0.1	0.58	1	<0.5	<0.2
L12EBR40	Rock	7	58	0.94	641	0.005	4	0.81	0.003	0.13	<0.1	0.04	9.9	<0.1	<0.05	2	<0.5	<0.2
L12EBR41	Rock	10	113	0.73	154	0.003	5	1.27	0.002	0.09	<0.1	0.10	12.7	<0.1	<0.05	3	<0.5	<0.2
L12EBR42	Rock	4	19	1.77	15	0.002	5	0.82	0.003	0.08	<0.1	0.06	25.1	<0.1	0.18	2	<0.5	<0.2
L12EBR43	Rock	5	3	0.56	63	0.002	6	0.81	0.008	0.29	0.3	0.34	4.0	<0.1	1.54	2	1.2	0.3
LS12EBR01	Rock	2	13	1.04	5	0.101	2	1.43	<0.001	<0.01	0.1	0.04	5.3	<0.1	<0.05	4	1.5	0.2
LS12EBR02	Rock	<1	25	0.52	4	0.215	20	1.38	<0.001	<0.01	<0.1	0.02	3.5	<0.1	0.07	6	<0.5	<0.2
LS12EBR03	Rock	2	44	1.00	4	0.030	2	1.48	0.012	0.01	<0.1	1.00	7.5	0.3	>10	9	1.4	<0.2
LS12EBR04	Rock	1	46	0.48	16	0.002	3	0.93	0.002	0.08	<0.1	0.34	4.8	<0.1	<0.05	2	<0.5	3.1
LS12EBR05	Rock	2	34	0.56	10	0.001	2	0.87	0.004	0.07	<0.1	0.03	4.0	<0.1	<0.05	2	<0.5	<0.2
LS12EBR06	Rock	5	68	1.36	2	0.265	3	3.46	0.044	<0.01	0.2	0.02	4.1	<0.1	0.11	11	<0.5	<0.2
LS12EBR07	Rock	3	6	1.09	7	0.133	3	2.92	0.062	0.02	0.1	0.02	6.5	<0.1	<0.05	9	<0.5	<0.2
LS12EBR08	Rock	4	90	2.60	18	0.256	3	2.43	0.082	0.03	<0.1	0.07	21.3	<0.1	3.84	16	3.9	<0.2
LS12EBR09	Rock	3	41	1.55	30	0.003	5	1.57	0.016	0.13	<0.1	0.05	16.8	<0.1	0.60	6	<0.5	<0.2
LS12EBR10	Rock	2	125	2.67	30	0.403	1	2.34	0.057	0.04	0.1	0.60	19.5	<0.1	3.61	15	2.1	1.0
LS12EBR11	Rock	2	96	0.69	5	0.208	2	2.00	0.085	0.02	0.4	0.18	5.2	<0.1	3.38	10	3.2	1.6
LS12EBR12	Rock	1	11	0.28	18	0.131	2	0.43	0.007	<0.01	0.1	2.80	1.8	0.2	5.27	7	14.4	1.4
LS12EBR13	Rock	<1	50	0.72	27	0.361	2	1.61	0.086	0.01	0.2	0.14	11.5	<0.1	0.10	8	0.6	<0.2
BP-R1	Rock	2	33	1.93	11	0.004	4	0.61	0.003	0.03	<0.1	0.30	14.8	<0.1	0.12	2	<0.5	<0.2
BP-R2	Rock	1	6	0.44	66	0.004	7	0.12	0.003	0.02	<0.1	0.13	2.7	<0.1	<0.05	<1	<0.5	<0.2

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Project: LACY/LIMESTONE
Report Date: July 06, 2012

QUALITY CONTROL REPORT VAN12002836.1

	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																					
L12EBR04	Rock	2.05	0.2	5.1	2.0	17	<0.1	17.0	5.7	145	1.39	16.5	1.0	0.2	4	<0.1	0.4	<0.1	15	0.14	0.014
REP L12EBR04	QC		0.2	5.1	2.0	17	<0.1	16.9	5.8	149	1.38	15.6	<0.5	0.1	3	<0.1	0.4	<0.1	15	0.13	0.014
L12EBR30	Rock	1.95	0.4	9.5	1.0	14	<0.1	10.0	2.8	423	1.30	15.3	3.9	<0.1	66	0.1	6.0	<0.1	17	1.49	0.009
REP L12EBR30	QC		0.3	9.7	0.9	13	<0.1	9.7	3.0	414	1.29	15.1	4.2	<0.1	65	<0.1	5.6	<0.1	17	1.47	0.009
L12EBR39	Rock	2.21	<0.1	76.6	2.1	57	<0.1	46.1	37.2	907	5.03	97.8	2.5	0.3	200	0.2	19.7	<0.1	107	8.99	0.048
REP L12EBR39	QC		<0.1	76.0	2.0	55	0.1	45.3	36.0	897	4.99	94.8	2.9	0.3	193	0.2	18.3	<0.1	106	8.91	0.048
Core Reject Duplicates																					
L12EBR29	Rock	1.80	1.1	52.0	6.9	22	1.2	14.0	2.4	265	8.29	408.9	92.8	0.5	28	<0.1	1.1	<0.1	76	0.44	0.127
DUP L12EBR29	QC		1.1	52.3	7.2	22	1.3	12.0	2.4	259	8.47	431.6	100.5	0.5	23	<0.1	0.9	<0.1	76	0.29	0.133
Reference Materials																					
STD DS9	Standard		14.3	113.8	122.6	314	2.0	42.6	7.8	591	2.40	25.8	126.5	6.6	67	2.3	5.7	6.0	42	0.78	0.090
STD DS9	Standard		13.1	109.1	125.5	300	1.9	40.7	7.8	584	2.26	24.9	124.1	6.5	72	2.6	6.0	7.1	40	0.73	0.085
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
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	1.9	2.3	41	<0.1	2.0	3.6	514	1.83	<0.5	<0.5	4.6	48	<0.1	<0.1	<0.1	35	0.67	0.069
G1	Prep Blank	<0.01	<0.1	2.8	2.7	40	<0.1	2.2	3.7	515	1.79	<0.5	<0.5	4.7	53	<0.1	<0.1	<0.1	34	0.47	0.074

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Project: LACY/LIMESTONE
Report Date: July 06, 2012

QUALITY CONTROL REPORT VAN12002836.1

	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																		
L12EBR04	Rock	4	11	0.43	52	0.001	2	0.61	0.012	0.05	<0.1	<0.01	1.3	<0.1	0.20	2	0.6	0.2
REP L12EBR04	QC	4	11	0.43	52	<0.001	2	0.61	0.012	0.05	<0.1	<0.01	1.2	<0.1	0.20	2	0.6	0.3
L12EBR30	Rock	1	16	0.49	18	<0.001	4	0.11	0.003	0.04	<0.1	0.26	3.1	<0.1	<0.05	<1	<0.5	<0.2
REP L12EBR30	QC	1	16	0.48	18	<0.001	3	0.11	0.003	0.04	<0.1	0.25	3.2	<0.1	<0.05	<1	<0.5	<0.2
L12EBR39	Rock	3	84	2.34	35	<0.001	9	0.79	0.013	0.05	<0.1	0.70	21.7	<0.1	0.58	1	<0.5	<0.2
REP L12EBR39	QC	3	85	2.30	34	<0.001	9	0.80	0.013	0.05	<0.1	0.63	21.3	<0.1	0.57	1	<0.5	<0.2
Core Reject Duplicates																		
L12EBR29	Rock	4	33	0.34	24	0.026	<1	0.68	<0.001	0.02	<0.1	0.07	1.8	<0.1	2.84	4	3.3	<0.2
DUP L12EBR29	QC	4	30	0.31	22	0.028	1	0.66	<0.001	0.02	<0.1	0.04	1.7	<0.1	2.91	4	4.1	<0.2
Reference Materials																		
STD DS9	Standard	14	123	0.65	305	0.116	3	1.00	0.087	0.41	3.1	0.22	2.5	5.5	0.17	5	5.8	5.5
STD DS9	Standard	12	124	0.61	291	0.111	4	0.94	0.085	0.39	3.2	0.22	2.5	5.4	0.16	4	6.5	5.3
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
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	10	6	0.60	152	0.087	<1	0.78	0.068	0.45	<0.1	<0.01	2.0	0.3	<0.05	4	<0.5	<0.2
G1	Prep Blank	9	5	0.47	141	0.092	1	0.84	0.059	0.44	<0.1	<0.01	1.8	0.3	<0.05	4	<0.5	<0.2

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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: June 21, 2012
Report Date: July 07, 2012
Page: 1 of 7

CERTIFICATE OF ANALYSIS VAN12002837.1

CLIENT JOB INFORMATION

Project: LACY/LIMESTONE
Shipment ID:
P.O. Number
Number of Samples: 169

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	169	Dry at 60C			VAN
SS80	162	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	169	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
DISP2	169	Heat treatment of Soils and Sediments			VAN

ADDITIONAL COMMENTS

Invoice To: Mammoth Geological Ltd.
2446 Bidston Road
Mill Bay BC V0R 2P4
Canada

CC: Gary Wesa
Ed Balon

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: LACY/LIMESTONE
Report Date: July 07, 2012

CERTIFICATE OF ANALYSIS VAN12002837.1

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
L12EBS001	Soil	6.8	84.2	5.8	78	0.1	78.6	22.6	586	7.23	192.8	7.9	0.9	8	0.1	12.5	0.1	155	0.27	0.034	13
L12EBS002	Soil	1.1	86.6	5.3	89	0.3	46.1	21.1	491	5.39	19.8	3.1	0.8	8	0.3	2.1	<0.1	163	0.28	0.075	6
L12EBS003	Soil	1.1	55.6	4.8	81	0.5	83.0	25.4	485	6.27	18.9	1.6	0.7	7	0.2	2.3	0.2	183	0.23	0.072	7
L12EBS004	Soil	0.6	49.8	1.8	69	0.2	88.8	27.8	526	7.30	8.2	1.5	0.4	7	0.1	2.3	<0.1	176	0.12	0.055	8
L12EBS005	Soil	0.9	77.1	2.6	108	0.1	274.5	40.5	445	8.35	142.4	1.7	0.5	5	0.1	10.9	<0.1	145	0.09	0.068	8
L12EBS006	Soil	0.4	78.7	3.3	121	<0.1	149.7	44.4	1369	8.40	25.0	3.5	0.5	8	0.3	4.4	<0.1	122	0.22	0.118	18
L12EBS007	Soil	0.9	137.3	3.6	93	0.1	188.3	36.3	1155	8.76	34.7	1.9	0.5	5	0.4	3.0	<0.1	217	0.15	0.058	18
L12EBS008	Soil	0.8	133.3	2.2	95	0.1	121.7	40.9	1040	8.12	19.9	3.2	0.8	12	0.2	1.4	<0.1	144	0.55	0.051	27
L12EBS009	Soil	1.1	102.7	3.3	50	0.1	50.1	27.9	706	5.39	23.4	5.8	0.9	26	<0.1	2.0	<0.1	212	0.43	0.026	8
L12EBS010	Soil	0.6	85.1	3.7	62	<0.1	47.8	23.1	677	5.41	24.9	3.8	1.1	13	0.2	1.9	<0.1	179	0.56	0.043	6
L12EBS011	Soil	1.2	85.4	4.8	68	<0.1	45.1	23.6	782	5.63	19.0	3.6	0.9	16	0.1	1.6	<0.1	193	0.42	0.044	9
L12EBS012	Soil	0.8	136.8	3.1	58	<0.1	50.6	25.3	718	5.78	20.8	6.7	1.0	18	0.1	1.6	<0.1	197	0.64	0.040	9
L12EBS013	Soil	1.3	85.9	4.2	60	0.3	48.0	26.4	992	6.16	16.3	4.5	1.0	23	0.2	2.0	<0.1	203	0.73	0.038	11
L12EBS014	Soil	1.5	99.1	3.3	51	0.2	50.7	25.2	371	6.30	17.8	4.1	1.1	17	<0.1	1.8	<0.1	240	0.47	0.031	7
L12EBS015	Soil	1.1	24.6	11.7	69	0.1	31.3	11.5	915	3.49	33.6	2.2	1.1	13	0.9	2.5	<0.1	72	0.85	0.077	34
L12EBS016	Soil	3.0	53.3	15.1	326	<0.1	246.7	31.1	375	16.39	392.0	1.7	0.6	2	0.6	19.2	<0.1	284	0.02	0.089	16
L12EBS017	Soil	1.9	50.0	54.7	243	<0.1	335.2	74.1	2531	14.90	265.8	4.1	0.7	11	2.4	10.1	<0.1	211	0.33	0.128	42
L12EBS018	Soil	1.2	75.0	6.3	88	0.1	27.4	14.9	647	5.00	19.3	3.8	0.7	8	<0.1	6.5	<0.1	126	0.20	0.060	5
L12EBS019	Soil	0.6	80.5	4.3	62	<0.1	64.3	24.1	294	6.00	19.3	2.5	0.6	8	0.1	10.3	<0.1	210	0.40	0.046	12
L12EBS020	Soil	2.3	74.5	5.2	85	1.4	27.8	14.9	619	4.34	15.4	4.2	1.4	4	0.2	2.6	<0.1	90	0.13	0.093	6
L12EBS021	Soil	2.6	62.5	3.5	79	0.2	118.6	44.8	914	9.28	47.8	1.6	0.5	9	0.2	1.9	<0.1	205	0.18	0.085	9
L12EBS022	Soil	10.8	48.8	22.4	202	1.2	76.5	24.1	1742	11.23	97.4	3.8	0.6	8	0.3	20.9	<0.1	124	0.21	0.119	11
LYS-01	Rock Pulp	6.6	42.1	4.5	50	0.6	31.6	13.6	475	2.93	6.7	770.7	1.2	42	0.3	0.9	<0.1	64	0.83	0.055	6
L12EBS023	Soil	2.6	94.2	5.2	88	<0.1	25.2	19.3	607	7.50	53.0	7.6	0.6	5	<0.1	20.0	<0.1	221	0.17	0.088	5
L12EBS024	Soil	3.1	59.6	5.9	162	0.2	124.0	20.9	149	8.26	229.0	3.1	0.7	3	0.2	20.3	<0.1	206	0.05	0.058	4
L12EBS025	Soil	1.5	51.5	6.2	112	0.8	24.8	16.0	791	6.48	15.8	5.3	0.7	11	0.3	5.2	0.2	171	0.27	0.057	6
L12EBS026	Soil	0.7	27.7	4.8	83	<0.1	46.3	12.8	416	3.92	8.2	7.2	0.6	9	0.4	0.8	<0.1	106	0.28	0.046	7
L12EBS027	Soil	0.7	67.1	4.7	77	<0.1	38.5	22.0	955	6.59	11.3	5.1	0.7	9	0.2	15.4	<0.1	161	0.20	0.044	5
L12EBS028	Soil	0.4	72.2	18.7	411	0.1	55.4	59.2	8052	24.30	40.6	3.9	0.4	10	1.7	35.9	<0.1	233	0.23	0.055	17
L12EBS029	Soil	2.1	231.2	9.7	160	<0.1	28.5	37.6	3898	15.15	148.8	15.9	0.7	3	0.3	145.5	<0.1	222	0.09	0.101	6

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Project: LACY/LIMESTONE
Report Date: July 07, 2012

CERTIFICATE OF ANALYSIS VAN12002837.1

	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
L12EBS001	Soil	107	0.64	100	0.028	4	2.46	0.004	0.04	0.1	0.17	24.9	<0.1	<0.05	6	1.0	<0.2
L12EBS002	Soil	57	0.54	151	0.165	3	3.38	0.007	0.03	0.1	0.34	8.6	<0.1	<0.05	10	0.6	<0.2
L12EBS003	Soil	109	0.65	155	0.109	3	3.95	0.006	0.03	0.2	0.50	8.8	0.1	<0.05	10	<0.5	<0.2
L12EBS004	Soil	159	1.26	215	0.005	2	3.16	0.004	0.04	0.1	0.57	16.7	0.1	<0.05	8	<0.5	<0.2
L12EBS005	Soil	232	0.46	145	0.007	3	2.26	0.003	0.06	0.3	1.97	22.5	<0.1	<0.05	5	<0.5	<0.2
L12EBS006	Soil	146	0.26	152	0.005	3	1.20	0.003	0.07	0.3	2.49	23.8	<0.1	<0.05	3	<0.5	<0.2
L12EBS007	Soil	247	0.53	116	0.008	3	1.46	0.002	0.04	0.2	5.23	55.0	<0.1	<0.05	4	<0.5	<0.2
L12EBS008	Soil	143	3.15	156	0.088	5	3.54	0.006	0.05	<0.1	0.51	44.8	<0.1	<0.05	11	0.5	<0.2
L12EBS009	Soil	74	0.89	194	0.304	3	3.72	0.012	0.02	<0.1	0.16	18.5	<0.1	<0.05	11	<0.5	<0.2
L12EBS010	Soil	64	0.86	86	0.291	4	3.81	0.010	0.03	0.1	0.16	14.0	<0.1	<0.05	11	0.6	<0.2
L12EBS011	Soil	66	0.69	104	0.270	3	3.95	0.010	0.02	<0.1	0.21	15.4	<0.1	<0.05	11	0.5	<0.2
L12EBS012	Soil	70	0.98	102	0.367	4	4.10	0.013	0.03	<0.1	0.18	19.4	<0.1	<0.05	11	<0.5	<0.2
L12EBS013	Soil	84	0.62	132	0.364	3	4.11	0.014	0.02	<0.1	0.18	22.0	<0.1	<0.05	13	0.7	<0.2
L12EBS014	Soil	89	0.75	103	0.416	3	4.54	0.011	0.02	<0.1	0.40	18.0	<0.1	<0.05	13	0.7	<0.2
L12EBS015	Soil	30	0.28	50	0.026	2	1.37	0.004	0.03	0.1	0.12	20.0	<0.1	<0.05	3	<0.5	<0.2
L12EBS016	Soil	427	0.18	8	0.009	2	1.27	0.002	<0.01	0.6	0.29	46.9	<0.1	<0.05	3	1.0	<0.2
L12EBS017	Soil	370	0.59	47	0.034	4	1.57	0.004	0.02	0.4	0.74	36.9	<0.1	<0.05	5	<0.5	<0.2
L12EBS018	Soil	43	0.41	99	0.119	3	2.70	0.006	0.03	<0.1	0.15	6.9	0.1	<0.05	9	<0.5	<0.2
L12EBS019	Soil	227	0.38	111	0.001	4	1.73	0.003	0.05	0.1	1.82	44.0	<0.1	<0.05	4	<0.5	<0.2
L12EBS020	Soil	51	0.52	21	0.106	2	4.46	0.004	0.02	0.4	0.29	10.8	<0.1	<0.05	6	1.6	<0.2
L12EBS021	Soil	269	1.53	35	0.025	4	3.60	0.006	0.03	<0.1	0.16	22.1	<0.1	<0.05	10	0.8	<0.2
L12EBS022	Soil	57	0.14	105	0.005	<1	2.31	0.002	0.05	0.5	0.34	12.8	0.1	<0.05	6	3.0	<0.2
LYS-01	Rock Pulp	37	0.74	149	0.132	4	1.49	0.122	0.13	25.7	0.07	5.8	<0.1	<0.05	5	<0.5	<0.2
L12EBS023	Soil	22	0.36	27	0.013	4	2.72	0.003	0.03	0.3	0.16	12.9	<0.1	<0.05	8	1.0	<0.2
L12EBS024	Soil	141	0.14	15	0.004	2	1.73	0.002	0.02	0.4	0.06	15.3	<0.1	<0.05	4	1.5	<0.2
L12EBS025	Soil	50	0.34	76	0.086	2	2.54	0.006	0.03	<0.1	0.27	8.3	<0.1	<0.05	9	<0.5	<0.2
L12EBS026	Soil	41	0.53	29	0.146	1	2.84	0.006	0.02	<0.1	0.10	5.4	<0.1	<0.05	7	<0.5	<0.2
L12EBS027	Soil	83	0.42	62	0.099	3	2.34	0.005	0.02	0.1	0.66	18.4	<0.1	<0.05	7	<0.5	<0.2
L12EBS028	Soil	23	0.23	82	0.002	3	0.42	0.002	0.05	0.4	1.84	27.5	<0.1	<0.05	1	<0.5	<0.2
L12EBS029	Soil	51	0.11	126	0.002	4	2.29	0.003	0.03	0.7	11.40	23.3	0.5	<0.05	2	2.1	<0.2

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CERTIFICATE OF ANALYSIS VAN12002837.1

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
L12EBS030	Soil	0.8	70.2	4.0	87	0.1	30.8	17.5	757	6.75	73.2	3.1	0.6	9	0.2	15.4	<0.1	134	0.27	0.069	8
L12EBS031	Soil	2.1	277.7	8.3	231	0.4	23.1	19.5	2834	11.05	110.6	14.0	0.6	9	0.7	82.5	<0.1	144	0.30	0.073	14
L12EBS032	Soil	1.1	98.8	3.8	65	0.2	28.0	12.5	388	4.34	11.8	8.0	1.1	9	<0.1	1.2	<0.1	126	0.23	0.120	5
L12EBS033	Soil	1.4	36.5	5.1	71	0.1	20.4	13.4	860	5.02	10.8	6.7	1.0	11	0.1	2.4	<0.1	116	0.20	0.181	12
L12EBS034	Soil	2.5	77.4	12.2	91	0.3	8.1	13.4	941	8.19	31.1	7.1	1.2	11	0.2	33.7	<0.1	54	0.22	0.081	24
L12EBS035	Soil	0.7	64.5	5.6	67	0.2	43.7	18.7	780	5.03	16.8	5.9	0.9	10	0.1	2.6	<0.1	122	0.32	0.057	8
L12EBS036	Soil	2.1	75.3	12.4	180	0.8	39.2	21.2	962	5.64	28.3	10.2	1.1	9	0.4	8.8	0.2	121	0.30	0.146	6
L12EBS037	Soil	7.6	251.8	15.4	197	0.3	53.5	39.9	4296	13.40	115.3	29.4	1.2	14	0.4	98.4	0.2	177	0.30	0.101	25
L12EBS038	Soil	0.6	81.0	4.2	58	0.1	46.6	15.4	649	3.87	12.8	15.0	1.1	16	0.1	1.8	<0.1	111	0.49	0.050	8
L12EBS039	Soil	0.7	69.8	4.7	74	0.2	71.0	31.1	438	3.73	10.4	4.8	0.9	13	0.1	1.2	<0.1	108	0.37	0.052	6
L12EBS040	Soil	0.9	56.4	5.4	58	0.1	36.2	17.2	493	4.57	11.1	33.5	0.7	11	<0.1	1.7	0.1	133	0.31	0.074	8
L12EBS041	Soil	8.6	303.2	11.5	159	0.4	39.1	27.9	2814	12.53	134.6	64.8	1.0	6	0.3	102.2	0.2	168	0.09	0.107	12
L12EBS042	Soil	2.1	96.9	4.7	79	0.1	45.2	18.9	481	4.66	19.2	5.8	1.1	10	0.1	2.6	<0.1	137	0.26	0.089	4
L12EBS043	Soil	221.6	241.0	63.5	108	3.0	21.7	29.5	5195	8.02	81.2	188.2	0.4	6	1.6	22.0	0.2	38	0.13	0.082	21
L12EBS044	Soil	1.8	65.8	14.2	113	0.1	30.4	24.1	4072	7.27	20.9	4.7	1.0	12	0.4	5.4	<0.1	85	0.30	0.074	23
LYS-02	Rock Pulp	32.9	6834	4055	>10000	73.9	36.9	50.0	488	4.50	55.9	674.3	4.3	38	68.3	78.1	12.6	58	0.77	0.048	10
L12EBS045	Soil	4.0	89.7	20.4	65	0.4	9.4	14.7	1715	6.68	115.7	25.9	0.6	4	0.2	67.7	<0.1	75	0.12	0.033	10
L12EBS046	Soil	1.3	88.5	6.4	80	0.1	21.3	14.9	958	5.72	21.9	18.3	0.7	15	0.1	3.6	<0.1	147	0.33	0.087	4
L12EBS047	Soil	2.4	67.8	5.5	41	0.3	9.2	12.1	747	4.57	10.9	24.4	0.6	8	<0.1	8.2	<0.1	93	0.21	0.031	8
L12EBS048	Soil	0.1	20.7	3.3	111	0.1	14.6	23.6	778	2.72	30.4	6.3	0.4	31	0.1	9.4	<0.1	84	1.68	0.040	<1
L12EBS049	Soil	6.2	114.1	9.9	74	0.4	15.8	12.6	1310	5.46	62.6	27.7	0.9	7	0.1	34.5	<0.1	72	0.27	0.039	17
L12EBS050	Soil	9.8	107.4	9.7	176	0.2	28.7	29.4	5119	9.65	28.7	29.2	1.1	6	0.4	26.3	<0.1	90	0.14	0.097	18
L12EBS051	Soil	1.6	165.0	7.2	120	0.2	54.0	19.8	775	6.36	35.6	5.3	1.3	11	0.4	37.8	<0.1	108	0.31	0.100	18
L12EBS052	Soil	0.5	45.6	5.4	40	<0.1	20.6	9.3	407	3.27	13.3	4.3	0.7	9	<0.1	1.2	<0.1	83	0.33	0.061	5
L12EBS053	Soil	1.2	106.4	7.9	74	0.2	25.7	18.4	1497	4.62	20.0	6.5	1.0	22	0.4	6.3	<0.1	117	0.64	0.054	15
L12EBS054	Soil	1.0	92.2	12.3	110	0.5	42.1	26.2	1733	6.42	20.5	10.4	2.1	18	0.7	6.1	<0.1	145	0.53	0.092	18
L12EBS055	Soil	1.0	74.2	12.8	99	0.4	38.4	18.3	657	5.08	12.0	9.0	0.9	16	0.2	5.5	<0.1	132	0.47	0.063	7
L12EBS056	Soil	1.2	117.0	9.0	75	0.2	72.7	27.5	1799	5.83	19.0	3.4	1.1	11	0.4	4.5	<0.1	176	0.34	0.074	13
L12EBS057	Soil	3.0	174.1	12.4	73	0.3	41.4	22.3	883	7.32	33.2	13.3	1.2	14	0.2	6.8	<0.1	179	0.41	0.100	22
L12EBS058	Soil	11.8	184.5	16.0	199	0.2	270.9	89.6	4716	15.26	152.2	6.3	0.8	9	0.8	52.4	<0.1	422	0.25	0.080	22

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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
L12EBS030	Soil	31	0.36	137	0.007	4	2.68	0.006	0.04	0.2	0.49	9.5	0.2	<0.05	6	<0.5	<0.2
L12EBS031	Soil	19	0.09	199	0.002	3	0.83	0.003	0.07	0.4	5.16	21.8	0.1	<0.05	2	0.9	<0.2
L12EBS032	Soil	47	0.63	44	0.121	3	4.75	0.008	0.02	0.1	0.43	9.6	<0.1	<0.05	8	1.3	<0.2
L12EBS033	Soil	41	0.41	114	0.011	4	3.48	0.006	0.06	0.1	0.68	14.5	<0.1	<0.05	6	1.2	<0.2
L12EBS034	Soil	9	0.05	81	<0.001	4	0.61	0.004	0.04	0.3	0.67	21.8	<0.1	<0.05	1	<0.5	<0.2
L12EBS035	Soil	69	0.83	73	0.129	3	2.96	0.006	0.02	0.1	0.24	9.9	<0.1	<0.05	8	0.6	<0.2
L12EBS036	Soil	50	0.65	55	0.115	3	3.76	0.007	0.02	0.1	0.21	8.7	<0.1	<0.05	8	1.1	<0.2
L12EBS037	Soil	54	0.26	195	0.016	3	0.99	0.003	0.04	1.5	1.56	32.9	0.1	<0.05	3	1.7	<0.2
L12EBS038	Soil	70	0.77	169	0.129	3	3.35	0.009	0.02	<0.1	0.13	11.4	<0.1	<0.05	9	0.6	<0.2
L12EBS039	Soil	80	1.08	112	0.170	4	4.20	0.009	0.02	<0.1	0.12	8.4	<0.1	<0.05	9	1.1	<0.2
L12EBS040	Soil	56	0.68	68	0.186	3	2.81	0.008	0.02	<0.1	0.13	5.9	<0.1	<0.05	8	0.5	<0.2
L12EBS041	Soil	46	0.29	124	0.022	2	2.64	0.003	0.02	0.4	1.30	22.1	0.3	<0.05	4	3.4	<0.2
L12EBS042	Soil	67	0.87	46	0.205	4	3.64	0.007	0.02	0.1	0.31	8.7	<0.1	<0.05	7	0.6	<0.2
L12EBS043	Soil	18	0.04	236	0.002	2	0.67	0.002	0.05	0.2	0.32	21.9	1.7	<0.05	1	0.8	0.2
L12EBS044	Soil	27	0.58	169	0.026	5	1.77	0.005	0.04	0.1	0.17	13.0	<0.1	<0.05	5	1.3	<0.2
LYS-02	Rock Pulp	34	0.96	63	0.117	4	1.49	0.090	0.19	31.7	1.81	4.3	1.9	2.99	9	4.7	<0.2
L12EBS045	Soil	9	0.05	79	<0.001	5	0.51	0.001	0.02	0.2	1.60	19.4	0.3	<0.05	<1	1.3	<0.2
L12EBS046	Soil	35	0.85	74	0.121	3	2.42	0.007	0.03	0.2	0.35	11.4	<0.1	<0.05	9	<0.5	<0.2
L12EBS047	Soil	16	0.36	109	0.014	3	1.38	0.005	0.04	0.1	0.87	20.9	<0.1	<0.05	3	0.8	<0.2
L12EBS048	Soil	6	0.64	10	<0.001	8	0.21	0.002	0.04	0.2	0.71	12.9	<0.1	0.36	<1	<0.5	<0.2
L12EBS049	Soil	11	0.04	146	<0.001	3	0.68	0.003	0.04	0.2	0.89	16.7	<0.1	<0.05	1	1.0	<0.2
L12EBS050	Soil	14	0.15	183	0.002	3	1.26	0.002	0.04	0.3	0.85	16.7	<0.1	<0.05	2	2.6	<0.2
L12EBS051	Soil	41	0.38	116	0.019	7	5.17	0.006	0.04	0.2	0.34	15.2	<0.1	<0.05	5	1.8	<0.2
L12EBS052	Soil	28	0.44	51	0.087	3	1.85	0.005	0.02	<0.1	0.10	4.3	<0.1	<0.05	4	0.7	<0.2
L12EBS053	Soil	40	0.91	148	0.089	6	2.18	0.009	0.04	0.1	0.62	13.9	<0.1	<0.05	6	0.7	<0.2
L12EBS054	Soil	78	0.57	197	0.057	5	5.33	0.009	0.05	0.1	0.33	21.4	0.1	<0.05	7	2.2	<0.2
L12EBS055	Soil	55	0.60	199	0.050	3	3.23	0.009	0.04	<0.1	0.23	8.5	<0.1	<0.05	8	0.5	<0.2
L12EBS056	Soil	195	1.20	84	0.140	3	2.88	0.007	0.02	0.2	0.49	29.4	<0.1	<0.05	7	1.0	<0.2
L12EBS057	Soil	77	0.47	187	0.044	6	3.83	0.008	0.03	0.2	0.41	28.6	<0.1	<0.05	8	2.2	<0.2
L12EBS058	Soil	470	0.36	257	0.034	9	1.23	0.004	0.02	1.0	3.28	61.4	<0.1	<0.05	5	1.3	<0.2

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Project: LACY/LIMESTONE
Report Date: July 07, 2012

CERTIFICATE OF ANALYSIS VAN12002837.1

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
L12EBS059	Soil	0.8	96.0	3.6	48	0.1	30.4	14.8	537	3.98	9.0	12.1	1.2	14	0.1	1.0	<0.1	132	0.33	0.052	5
L12EBS060	Soil	0.9	82.1	8.3	60	0.2	32.8	17.1	536	4.59	8.3	3.5	0.9	14	0.1	0.8	<0.1	159	0.34	0.041	4
L12EBS061	Soil	1.0	121.0	3.3	47	0.3	35.8	18.4	346	5.05	14.3	7.0	1.2	15	0.1	1.5	<0.1	169	0.34	0.080	5
L12EBS062	Soil	2.2	397.7	31.0	164	0.3	214.5	55.7	2506	16.21	42.5	6.8	0.9	12	1.8	44.0	<0.1	253	0.36	0.105	16
L12EBS063	Soil	2.4	96.8	19.1	92	0.2	59.7	23.9	608	5.03	115.1	10.8	1.1	15	0.5	1.3	0.1	135	0.50	0.117	5
L12EBS064	Soil	3.5	79.2	45.0	82	0.3	54.8	27.6	696	7.45	70.8	5.6	1.2	29	0.5	1.5	0.3	209	0.72	0.166	7
L12EBS065	Soil	3.5	110.9	22.0	85	0.2	38.6	22.7	628	5.97	41.6	12.0	1.4	11	0.3	1.6	<0.1	134	0.30	0.152	7
L12EBS066	Soil	1.7	91.7	11.2	61	0.1	57.8	26.2	878	4.15	35.7	32.8	1.0	13	0.6	0.9	<0.1	134	0.38	0.064	5
LYS-03	Rock Pulp	6.3	45.0	4.8	54	0.5	31.4	13.0	473	2.82	6.9	647.5	1.4	47	0.3	1.0	<0.1	62	0.79	0.056	6
L12EBS067	Soil	11.3	928.3	45.1	170	0.6	301.2	90.2	4230	12.35	763.9	39.9	0.7	18	2.4	12.9	0.1	509	0.83	0.154	23
L12EBS068	Soil	0.9	60.5	6.8	72	0.2	30.8	15.9	609	3.73	10.8	4.1	0.9	12	0.1	0.6	<0.1	122	0.29	0.105	4
L12EBS069	Soil	1.5	50.1	7.5	81	0.2	25.9	15.9	622	4.63	11.2	27.7	1.0	9	0.2	0.6	0.2	143	0.22	0.138	4
L12EBS070	Soil	22.7	307.0	4.7	128	0.2	111.0	30.0	842	16.86	76.0	4.0	0.6	10	0.2	8.6	<0.1	279	0.12	0.228	7
L12EBS071	Soil	4.2	128.0	6.7	127	<0.1	143.4	51.9	3460	13.30	21.1	2.3	0.5	17	0.6	20.0	<0.1	173	0.39	0.135	30
L12EBS072	Soil	3.5	20.2	3.6	33	0.2	16.9	7.1	743	3.04	4.0	0.7	0.6	10	0.3	2.5	<0.1	75	0.22	0.042	7
L12EBS073	Soil	3.9	126.1	8.6	112	0.1	43.4	25.5	786	8.63	18.6	14.7	0.8	12	0.2	19.3	<0.1	88	0.32	0.090	14
L12EBS074	Soil	1.6	202.3	4.7	63	0.2	25.0	13.0	239	4.99	13.5	5.4	1.4	9	0.2	9.6	0.1	137	0.22	0.040	7
L12EBS075	Soil	1.3	77.8	7.1	71	0.1	36.0	16.5	300	5.15	9.1	0.8	1.4	10	0.2	1.8	0.1	142	0.20	0.109	4
L12EBS076	Soil	0.9	77.5	4.5	71	0.1	73.3	19.0	359	5.45	13.0	7.2	1.1	13	0.1	4.3	<0.1	134	0.27	0.065	5
L12EBS077	Soil	1.4	63.9	10.0	128	0.3	21.2	18.7	2700	4.62	4.7	<0.5	1.1	18	0.5	1.9	0.2	103	0.54	0.059	13
L12EBS078	Soil	1.0	54.8	5.3	36	<0.1	16.2	8.8	698	3.19	8.8	3.4	2.4	12	0.2	5.7	0.3	57	0.33	0.060	38
L12EBS079	Soil	0.7	38.3	5.3	47	0.1	22.0	9.7	296	4.14	7.3	1.6	1.2	12	0.1	1.0	<0.1	124	0.29	0.042	8
L12EBS080	Soil	1.5	8.3	3.2	17	<0.1	2.9	2.7	65	1.55	3.3	<0.5	1.3	7	<0.1	0.7	0.1	52	0.08	0.020	24
L12EBS081	Soil	0.7	59.3	15.0	78	0.1	26.3	11.4	226	3.91	4.6	2.7	1.3	13	0.5	1.1	<0.1	124	0.27	0.046	4
L12EBS082	Soil	0.8	30.8	3.8	29	<0.1	16.6	8.3	221	2.84	3.2	1.3	0.8	11	0.1	0.7	<0.1	93	0.26	0.067	3
L12EBS083	Soil	0.7	46.2	2.9	35	0.2	27.9	12.4	184	3.61	4.5	<0.5	1.1	10	0.2	0.6	<0.1	108	0.27	0.071	4
L12EBS084	Soil	2.0	93.5	5.2	152	0.4	53.3	20.0	335	11.19	33.3	1.3	0.7	4	<0.1	11.9	<0.1	133	0.07	0.128	4
L12EBS085	Soil	2.1	135.6	3.3	98	<0.1	47.3	19.6	264	7.05	25.8	<0.5	0.4	7	<0.1	22.5	<0.1	115	0.11	0.053	3
L12EBS086	Soil	0.9	33.0	4.7	51	0.3	45.2	15.3	222	4.36	8.4	<0.5	0.8	12	<0.1	2.7	<0.1	123	0.22	0.048	4
L12EBS087	Soil	1.2	32.8	4.4	54	0.1	42.8	14.0	207	4.63	11.2	3.6	0.5	14	0.1	3.4	<0.1	133	0.23	0.043	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
L12EBS059	Soil	57	0.76	65	0.187	4	3.82	0.008	0.02	<0.1	0.17	10.3	<0.1	<0.05	7	0.8	<0.2
L12EBS060	Soil	52	0.74	80	0.201	3	3.12	0.008	0.02	<0.1	0.20	8.4	<0.1	<0.05	9	<0.5	<0.2
L12EBS061	Soil	66	0.87	54	0.237	5	4.76	0.009	0.02	0.1	0.20	12.0	<0.1	<0.05	9	1.0	<0.2
L12EBS062	Soil	381	1.22	109	0.010	6	2.60	0.003	0.03	0.2	3.65	56.9	<0.1	<0.05	4	2.0	<0.2
L12EBS063	Soil	87	0.86	115	0.143	4	2.67	0.010	0.02	0.1	0.16	6.8	<0.1	<0.05	8	1.4	<0.2
L12EBS064	Soil	108	0.80	98	0.198	4	3.50	0.009	0.02	0.1	0.15	6.6	<0.1	<0.05	14	1.8	<0.2
L12EBS065	Soil	59	0.90	59	0.172	4	3.36	0.008	0.02	0.2	0.13	10.7	<0.1	<0.05	8	1.5	<0.2
L12EBS066	Soil	110	1.12	90	0.182	4	3.07	0.008	0.02	0.1	0.11	9.9	<0.1	<0.05	9	0.6	<0.2
LYS-03	Rock Pulp	36	0.72	150	0.130	5	1.54	0.128	0.13	26.0	0.05	5.4	<0.1	<0.05	5	0.5	<0.2
L12EBS067	Soil	650	0.81	237	0.002	6	1.71	0.005	0.05	0.5	0.75	>100	<0.1	<0.05	7	2.0	0.3
L12EBS068	Soil	64	0.61	58	0.173	3	3.13	0.007	0.03	<0.1	0.15	6.1	<0.1	<0.05	9	<0.5	<0.2
L12EBS069	Soil	56	0.47	54	0.185	2	3.48	0.007	0.02	0.1	0.12	5.6	<0.1	<0.05	11	0.7	<0.2
L12EBS070	Soil	155	0.62	45	0.026	2	3.07	0.003	0.03	0.3	0.91	28.3	<0.1	<0.05	7	1.6	<0.2
L12EBS071	Soil	73	0.63	311	0.010	5	1.37	0.010	0.07	<0.1	2.33	32.8	<0.1	<0.05	4	<0.5	<0.2
L12EBS072	Soil	39	0.16	97	0.009	2	1.13	0.003	0.02	0.1	0.38	10.9	<0.1	<0.05	3	<0.5	<0.2
L12EBS073	Soil	38	0.20	155	0.009	3	1.32	0.004	0.07	0.2	1.21	11.0	<0.1	<0.05	3	1.1	<0.2
L12EBS074	Soil	43	0.49	74	0.144	2	3.15	0.007	0.04	<0.1	0.91	7.3	<0.1	<0.05	9	0.7	<0.2
L12EBS075	Soil	69	0.66	46	0.169	2	4.74	0.009	0.02	0.1	0.17	9.5	<0.1	<0.05	10	0.7	<0.2
L12EBS076	Soil	60	0.58	126	0.090	3	2.80	0.006	0.03	0.3	0.54	11.6	<0.1	<0.05	7	<0.5	<0.2
L12EBS077	Soil	38	0.32	264	0.090	2	2.96	0.012	0.04	<0.1	0.12	7.5	0.2	<0.05	9	0.6	<0.2
L12EBS078	Soil	27	0.31	151	0.027	3	1.91	0.012	0.08	0.1	0.19	6.3	<0.1	<0.05	4	0.5	<0.2
L12EBS079	Soil	46	0.36	54	0.153	<1	2.83	0.008	0.03	<0.1	0.11	6.0	<0.1	<0.05	8	0.6	<0.2
L12EBS080	Soil	8	0.06	53	0.020	<1	1.40	0.004	0.03	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
L12EBS081	Soil	48	0.55	46	0.201	1	2.95	0.011	0.03	0.1	0.42	8.0	<0.1	<0.05	8	<0.5	<0.2
L12EBS082	Soil	36	0.32	31	0.158	<1	2.06	0.006	0.02	<0.1	0.17	5.0	<0.1	<0.05	7	<0.5	<0.2
L12EBS083	Soil	46	0.43	31	0.181	2	3.15	0.008	0.02	<0.1	0.11	7.8	<0.1	<0.05	7	<0.5	<0.2
L12EBS084	Soil	55	0.15	63	0.015	1	2.62	0.003	0.05	0.4	1.59	12.5	0.1	<0.05	5	0.8	<0.2
L12EBS085	Soil	40	0.18	96	0.009	2	1.92	0.004	0.04	0.2	0.91	11.4	<0.1	<0.05	5	<0.5	<0.2
L12EBS086	Soil	60	0.53	56	0.136	1	2.94	0.009	0.02	<0.1	0.39	6.1	<0.1	<0.05	10	<0.5	<0.2
L12EBS087	Soil	51	0.39	67	0.062	1	2.28	0.005	0.03	<0.1	0.15	6.1	<0.1	<0.05	9	<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
L12EBS088	Soil	1.8	37.6	5.0	45	0.2	34.6	11.3	221	4.30	8.4	1.2	0.8	15	0.2	1.2	<0.1	120	0.19	0.113	4
LYS-04	Rock Pulp	29.5	6429	4414	>10000	69.8	33.7	45.9	451	4.32	51.1	650.3	4.1	33	66.3	74.7	11.9	53	0.73	0.044	9
L12EBS089	Soil	1.6	72.8	11.4	118	0.2	114.9	40.0	1525	7.25	31.3	2.1	0.9	13	0.3	22.0	<0.1	104	0.27	0.123	9
L12EBS090	Soil	0.9	33.1	4.2	39	<0.1	24.0	10.4	188	3.62	4.8	2.3	1.2	13	0.1	0.8	<0.1	112	0.24	0.076	5
L12EBS091	Soil	0.8	26.2	4.6	33	<0.1	24.8	10.2	215	4.15	5.1	0.7	0.8	15	0.2	1.5	<0.1	133	0.37	0.059	3
L12EBS092	Soil	1.2	25.1	4.7	36	0.1	17.4	7.8	210	4.44	4.3	<0.5	1.1	11	<0.1	0.4	<0.1	135	0.32	0.102	4
L12EBS093	Soil	1.9	46.3	6.7	53	0.1	40.7	25.1	226	5.59	6.0	<0.5	1.1	18	0.2	0.5	<0.1	132	0.62	0.086	7
L12EBS094	Soil	0.8	107.1	3.8	60	<0.1	151.0	30.9	627	9.84	316.8	2.4	0.7	5	0.1	62.1	<0.1	197	0.09	0.065	8
L12EBS095	Soil	0.6	101.0	4.1	78	<0.1	100.6	36.3	1201	7.21	112.6	4.9	0.8	13	0.2	36.0	<0.1	148	0.27	0.056	8
L12EBS096	Soil	0.7	113.1	3.5	74	0.1	55.2	29.9	1110	7.19	14.9	2.9	1.1	8	0.1	9.3	<0.1	194	0.20	0.050	11
L12EBS097	Soil	0.3	38.7	3.3	51	<0.1	21.7	10.4	256	3.15	5.3	1.8	1.2	8	<0.1	0.7	<0.1	80	0.13	0.031	5
L12EBS098	Soil	0.1	31.8	3.2	43	<0.1	10.1	7.9	184	3.20	7.2	1.2	0.7	6	<0.1	0.3	<0.1	57	0.06	0.026	3
L12EBS099	Soil	0.2	34.4	2.9	43	<0.1	7.8	7.5	227	3.26	10.9	<0.5	0.6	4	<0.1	0.3	<0.1	44	0.03	0.030	2
L12EBS100	Soil	0.1	23.6	2.5	36	<0.1	6.6	7.8	219	2.91	12.7	5.3	0.8	7	<0.1	0.4	<0.1	50	0.08	0.031	2
L12EBS101	Soil	0.3	37.0	3.5	70	<0.1	16.2	9.7	163	3.18	9.5	<0.5	0.9	5	<0.1	0.4	<0.1	66	0.07	0.032	3
L12EBS102	Soil	<0.1	39.5	2.1	43	<0.1	16.6	14.0	605	3.51	1.8	1.6	1.6	4	<0.1	<0.1	<0.1	66	0.04	0.026	8
L12EBS103	Soil	0.4	31.4	2.3	31	<0.1	16.3	12.5	137	2.20	10.3	1.6	1.0	10	<0.1	0.3	<0.1	43	0.08	0.015	4
L12EBS104	Soil	0.3	37.1	2.5	49	<0.1	21.9	13.1	371	3.48	2.3	1.0	0.8	20	<0.1	0.3	<0.1	85	0.15	0.021	4
L12EBS105	Soil	0.3	52.7	2.4	54	<0.1	32.2	17.8	351	3.89	2.9	<0.5	1.0	4	<0.1	0.2	<0.1	94	0.07	0.030	4
L12EBS106	Soil	0.8	109.1	6.3	57	0.1	32.5	23.0	591	5.24	12.5	3.4	0.8	4	<0.1	0.3	<0.1	108	0.04	0.062	4
L12EBS107	Soil	0.2	82.9	2.4	66	<0.1	39.2	24.6	342	4.42	3.3	<0.5	0.7	6	<0.1	0.2	<0.1	86	0.06	0.033	3
L12EBS108	Soil	0.2	57.0	2.5	44	<0.1	28.8	18.2	404	3.76	3.2	<0.5	1.2	16	<0.1	0.2	<0.1	77	0.13	0.015	3
L12EBS109	Soil	0.2	46.8	3.1	34	<0.1	21.9	10.5	163	4.17	2.7	1.5	1.2	10	<0.1	0.6	<0.1	84	0.10	0.018	2
L12EBS110	Soil	0.1	74.8	2.2	42	<0.1	23.9	15.7	283	3.83	2.0	2.3	1.3	4	<0.1	0.4	<0.1	75	0.04	0.020	3
LYS-05	Rock Pulp	6.6	44.8	4.4	50	0.5	31.5	13.5	477	2.91	6.4	698.8	1.2	37	0.2	0.9	0.1	63	0.78	0.053	6
L12EBS111	Soil	0.5	51.7	3.6	56	<0.1	26.9	15.1	428	3.79	12.5	6.0	1.1	12	<0.1	0.4	<0.1	76	0.15	0.033	5
L12EBS112	Soil	0.6	64.9	3.9	35	<0.1	21.6	13.0	490	3.00	3.0	3.7	1.2	10	<0.1	0.2	<0.1	94	0.24	0.032	6
L12EBS113	Soil	0.3	19.8	3.4	43	<0.1	13.6	8.0	219	2.66	1.9	0.9	0.6	7	<0.1	<0.1	<0.1	94	0.20	0.031	3
L12EBS114	Soil	1.3	96.1	11.5	46	0.2	37.5	20.3	368	3.50	3.3	3.7	1.3	16	0.1	0.5	<0.1	109	0.36	0.032	8
L12EBS115	Soil	0.6	91.9	3.6	72	<0.1	17.3	23.9	967	5.44	6.9	7.7	0.7	8	0.2	1.3	<0.1	120	0.24	0.049	10

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Project: LACY/LIMESTONE
Report Date: July 07, 2012

CERTIFICATE OF ANALYSIS VAN12002837.1

	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
L12EBS088	Soil	59	0.66	39	0.110	1	2.80	0.006	0.03	<0.1	0.13	6.3	<0.1	<0.05	11	<0.5	<0.2
LYS-04	Rock Pulp	30	0.93	62	0.104	2	1.43	0.096	0.19	30.4	1.70	5.2	2.0	2.60	8	3.6	<0.2
L12EBS089	Soil	72	0.48	58	0.016	5	2.23	0.003	0.05	0.2	1.54	16.2	<0.1	<0.05	3	0.9	<0.2
L12EBS090	Soil	44	0.38	34	0.202	<1	2.66	0.007	0.02	<0.1	0.10	7.2	<0.1	<0.05	8	<0.5	<0.2
L12EBS091	Soil	51	0.42	45	0.204	1	2.35	0.007	0.02	<0.1	0.35	4.9	<0.1	<0.05	9	<0.5	<0.2
L12EBS092	Soil	46	0.30	31	0.250	1	2.78	0.007	0.02	<0.1	0.10	5.1	<0.1	<0.05	10	<0.5	<0.2
L12EBS093	Soil	53	0.41	60	0.254	1	5.02	0.008	0.02	<0.1	0.13	8.0	<0.1	<0.05	10	0.7	<0.2
L12EBS094	Soil	315	0.23	71	0.002	2	1.97	0.005	0.04	1.0	0.94	25.3	0.1	<0.05	4	1.6	<0.2
L12EBS095	Soil	148	0.49	82	0.006	3	1.40	0.006	0.07	0.5	0.99	24.4	<0.1	<0.05	3	<0.5	<0.2
L12EBS096	Soil	115	0.79	85	0.021	3	2.21	0.007	0.05	0.2	1.15	30.1	<0.1	<0.05	6	<0.5	<0.2
L12EBS097	Soil	30	0.25	107	0.005	2	2.70	0.005	0.05	<0.1	0.19	5.3	<0.1	<0.05	6	<0.5	<0.2
L12EBS098	Soil	19	0.08	94	0.002	2	2.03	0.006	0.06	<0.1	0.18	4.2	<0.1	<0.05	3	<0.5	<0.2
L12EBS099	Soil	14	0.05	80	0.002	3	1.99	0.004	0.07	<0.1	0.22	5.2	<0.1	<0.05	3	<0.5	<0.2
L12EBS100	Soil	15	0.05	81	0.002	2	1.57	0.003	0.07	<0.1	0.14	4.4	<0.1	<0.05	2	<0.5	<0.2
L12EBS101	Soil	20	0.14	98	0.002	1	2.39	0.004	0.06	<0.1	0.12	5.4	<0.1	<0.05	5	<0.5	<0.2
L12EBS102	Soil	21	0.09	141	0.004	2	1.63	0.004	0.06	<0.1	0.20	11.6	<0.1	<0.05	3	<0.5	<0.2
L12EBS103	Soil	15	0.07	174	0.004	1	1.64	0.004	0.06	<0.1	0.11	5.4	<0.1	<0.05	2	<0.5	<0.2
L12EBS104	Soil	38	0.31	192	0.003	<1	1.94	0.005	0.03	<0.1	0.04	6.2	<0.1	<0.05	7	<0.5	<0.2
L12EBS105	Soil	52	0.40	115	0.003	2	2.92	0.005	0.03	<0.1	0.11	5.2	<0.1	<0.05	7	<0.5	<0.2
L12EBS106	Soil	94	0.45	98	<0.001	1	2.58	0.005	0.04	<0.1	0.09	9.9	<0.1	<0.05	8	<0.5	<0.2
L12EBS107	Soil	67	0.44	109	0.001	2	2.22	0.004	0.04	<0.1	0.05	8.1	<0.1	<0.05	7	<0.5	<0.2
L12EBS108	Soil	50	0.51	168	0.002	1	1.76	0.005	0.03	<0.1	0.13	7.8	<0.1	<0.05	6	<0.5	<0.2
L12EBS109	Soil	38	0.20	108	0.003	1	1.45	0.004	0.05	<0.1	0.07	4.4	<0.1	<0.05	4	<0.5	<0.2
L12EBS110	Soil	34	0.23	72	0.007	<1	1.21	0.004	0.05	<0.1	0.09	6.0	<0.1	<0.05	4	<0.5	<0.2
LYS-05	Rock Pulp	36	0.71	137	0.122	4	1.45	0.107	0.13	25.1	0.05	4.8	<0.1	<0.05	5	<0.5	<0.2
L12EBS111	Soil	33	0.33	131	0.006	2	1.53	0.004	0.04	0.1	0.11	7.5	<0.1	<0.05	4	<0.5	<0.2
L12EBS112	Soil	37	0.50	71	0.145	1	2.97	0.010	0.04	<0.1	0.09	6.0	<0.1	<0.05	7	<0.5	<0.2
L12EBS113	Soil	25	0.18	41	0.161	<1	1.68	0.011	0.01	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
L12EBS114	Soil	61	0.88	122	0.193	1	3.09	0.010	0.03	0.1	0.34	7.2	<0.1	<0.05	8	<0.5	<0.2
L12EBS115	Soil	24	1.40	50	0.008	2	2.91	0.005	0.05	<0.1	3.04	15.4	0.3	<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	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
L12EBS116	Soil	7.6	172.2	4.8	69	0.1	27.2	22.1	663	5.06	8.1	16.0	1.2	11	0.2	3.6	0.1	120	0.20	0.041	10
L12EBS117	Soil	3.4	108.4	22.6	52	0.3	38.2	30.7	940	10.11	10.0	5.8	0.4	6	<0.1	0.4	0.3	51	0.07	0.185	3
L12EBS118	Soil	1.8	55.0	7.2	287	0.1	45.3	24.0	1717	18.29	35.1	<0.5	0.9	5	0.4	4.9	<0.1	331	0.11	0.083	9
L12EBS119	Soil	6.1	133.7	64.0	240	0.4	12.5	37.9	8768	19.82	39.0	7.7	1.2	21	1.4	34.4	0.1	263	0.38	0.078	27
L12EBS120	Soil	3.0	90.2	24.6	113	0.2	42.3	28.3	4736	11.81	57.8	7.9	0.7	12	1.0	14.6	<0.1	257	0.43	0.126	14
L12EBS121	Soil	0.5	56.7	2.8	35	<0.1	27.3	13.6	234	3.47	7.5	<0.5	1.0	8	<0.1	0.6	<0.1	111	0.32	0.029	3
L12EBS122	Soil	1.2	102.4	11.2	83	0.1	39.1	27.9	2220	5.92	25.8	4.7	0.7	12	0.5	7.5	<0.1	143	0.40	0.065	9
L12EBS123	Soil	1.0	37.7	11.7	63	<0.1	25.9	7.5	1681	2.18	14.5	4.1	0.3	2	0.7	1.9	<0.1	10	0.05	0.041	26
L12EBS124	Soil	0.5	32.5	2.7	57	<0.1	24.9	9.5	209	2.01	8.0	<0.5	0.4	3	0.1	0.7	<0.1	42	0.06	0.017	6
L12EBS125	Soil	2.1	48.6	10.2	153	0.4	65.6	21.4	1486	8.14	102.0	7.1	1.2	4	0.9	31.8	<0.1	106	0.21	0.076	43
L12EBS126	Soil	4.6	109.4	7.9	74	0.5	83.3	25.1	1660	7.49	63.9	<0.5	0.7	8	0.4	9.9	<0.1	140	0.18	0.071	37
L12EBS127	Soil	2.1	12.0	4.7	211	<0.1	25.6	12.6	1620	10.90	25.1	2.1	0.5	7	0.6	1.0	<0.1	148	0.18	0.076	6
L12EBS128	Soil	2.7	39.4	6.1	208	<0.1	17.7	39.2	1336	14.08	220.4	1.6	1.1	4	0.2	8.9	<0.1	292	0.08	0.075	7
L12EBS129	Soil	1.4	46.8	5.1	205	<0.1	24.2	29.8	1420	12.33	41.6	<0.5	1.0	7	0.4	5.3	<0.1	206	0.18	0.058	12
L12EBS130	Soil	3.7	37.5	8.6	228	<0.1	459.5	40.3	2260	15.93	1111	0.5	0.8	4	0.4	30.0	<0.1	197	0.13	0.057	20
LYS-06	Rock Pulp	28.8	6963	4508	>10000	66.2	32.7	47.0	447	4.12	47.8	513.3	3.6	26	56.7	63.4	9.5	52	0.68	0.039	9
L12EBS131	Soil	2.3	33.8	3.0	32	0.1	74.8	12.5	414	4.05	162.2	5.9	0.7	5	<0.1	17.6	0.1	136	0.13	0.034	10
L12EBS132	Soil	6.5	141.3	11.5	179	0.1	16.2	34.6	2533	9.51	30.1	16.9	1.1	10	0.5	29.0	<0.1	88	0.22	0.149	11
L12EBS133	Soil	5.7	53.9	7.6	58	0.3	5.8	13.4	1616	6.57	14.0	12.4	1.2	15	0.3	3.2	<0.1	52	0.38	0.156	17
L12EBS134	Soil	0.4	65.5	5.3	50	0.1	45.0	15.2	352	4.35	25.0	8.8	0.9	8	0.2	6.8	<0.1	114	0.28	0.052	5
L12EBS135	Soil	0.4	51.5	6.8	82	<0.1	109.4	37.7	1419	8.55	6.0	3.4	0.9	3	0.4	3.6	<0.1	183	0.06	0.104	16
L12EBS136	Soil	0.5	248.1	8.7	58	0.1	92.7	36.9	971	7.42	21.6	705.0	0.5	2	0.2	5.5	<0.1	129	0.04	0.091	14
L12EBS137	Soil	0.3	103.5	6.0	109	0.2	169.6	44.7	1387	7.12	7.2	2.0	1.0	7	0.4	6.3	<0.1	182	0.22	0.105	10
L12EBS138	Soil	1.5	66.6	5.2	54	0.2	60.3	23.8	805	6.11	14.0	3.6	0.6	7	<0.1	9.1	<0.1	160	0.15	0.079	7
L12EBS139	Soil	1.5	509.1	22.5	133	0.1	102.6	56.8	2959	21.39	15.6	10.4	1.8	4	0.8	3.2	<0.1	214	0.14	0.149	28
L12EBS140	Soil	0.6	128.4	6.4	60	0.1	87.0	31.1	891	7.47	8.7	8.3	0.9	8	0.2	6.7	<0.1	134	0.17	0.059	11
L12EBS141	Soil	0.2	106.6	3.0	63	0.1	148.0	32.5	297	4.21	96.8	2.2	0.4	4	0.2	29.2	<0.1	72	0.05	0.036	6
L12EBS142	Soil	1.0	110.1	35.2	127	0.2	149.1	38.4	2591	9.46	39.3	3.0	1.0	8	1.7	13.2	<0.1	184	0.21	0.080	16
L12EBS143	Soil	1.6	72.8	4.9	76	0.1	97.4	30.4	1041	6.07	158.3	3.8	1.0	12	0.2	25.1	<0.1	97	0.24	0.071	7
L12EBS144	Soil	8.7	144.4	19.9	160	0.2	81.2	52.6	4666	16.03	70.7	13.1	1.7	7	0.6	22.8	0.1	86	0.22	0.147	28

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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
L12EBS116	Soil	58	0.63	106	0.074	1	2.45	0.006	0.03	0.1	0.35	12.0	<0.1	<0.05	6	0.8	<0.2
L12EBS117	Soil	19	0.50	55	0.010	1	1.02	0.007	0.03	<0.1	0.18	8.2	<0.1	0.10	4	3.0	2.9
L12EBS118	Soil	63	0.31	53	0.067	1	2.25	0.003	0.02	<0.1	0.33	17.9	<0.1	<0.05	6	0.7	<0.2
L12EBS119	Soil	13	0.23	467	0.003	3	0.61	0.003	0.03	0.6	2.42	25.1	0.1	<0.05	2	0.5	<0.2
L12EBS120	Soil	87	0.28	141	0.022	2	2.45	0.004	0.03	0.4	2.42	31.5	0.2	<0.05	4	0.8	<0.2
L12EBS121	Soil	39	0.49	56	0.199	2	2.79	0.009	0.01	<0.1	0.16	8.0	<0.1	<0.05	7	<0.5	<0.2
L12EBS122	Soil	71	0.85	107	0.074	3	1.89	0.008	0.03	0.1	1.02	19.8	<0.1	<0.05	6	<0.5	<0.2
L12EBS123	Soil	6	0.05	43	0.004	<1	0.51	0.002	0.01	<0.1	0.08	6.2	<0.1	<0.05	<1	<0.5	<0.2
L12EBS124	Soil	14	0.46	30	0.023	<1	1.19	0.002	<0.01	<0.1	0.08	6.5	<0.1	<0.05	3	<0.5	<0.2
L12EBS125	Soil	56	0.20	32	0.003	4	0.45	0.002	0.02	0.5	0.31	33.7	<0.1	<0.05	<1	<0.5	<0.2
L12EBS126	Soil	104	0.71	126	0.004	2	1.18	0.003	0.02	0.3	5.37	31.0	<0.1	<0.05	4	<0.5	<0.2
L12EBS127	Soil	36	0.19	148	0.010	2	1.12	0.003	0.03	<0.1	0.12	12.4	<0.1	<0.05	3	<0.5	<0.2
L12EBS128	Soil	33	0.20	69	0.008	<1	1.09	0.004	0.02	0.2	0.24	21.8	0.1	<0.05	3	1.6	<0.2
L12EBS129	Soil	34	0.29	92	0.085	1	1.88	0.005	0.03	<0.1	0.35	19.1	<0.1	<0.05	6	0.6	<0.2
L12EBS130	Soil	230	0.16	107	0.003	<1	0.94	0.002	0.02	1.0	0.39	27.0	<0.1	<0.05	2	<0.5	<0.2
LYS-06	Rock Pulp	32	0.89	54	0.097	2	1.36	0.072	0.18	28.3	1.75	3.8	1.8	2.84	8	3.2	<0.2
L12EBS131	Soil	155	0.07	86	<0.001	<1	0.65	0.001	0.03	2.3	2.02	30.6	<0.1	<0.05	2	<0.5	<0.2
L12EBS132	Soil	12	0.20	294	0.014	1	1.32	0.004	0.06	0.1	1.04	9.8	<0.1	<0.05	3	<0.5	<0.2
L12EBS133	Soil	7	0.17	85	0.002	<1	1.32	0.005	0.03	0.1	0.42	11.6	<0.1	<0.05	2	0.6	<0.2
L12EBS134	Soil	57	0.38	97	0.058	2	2.05	0.007	0.03	0.2	3.47	8.8	<0.1	<0.05	5	<0.5	<0.2
L12EBS135	Soil	177	0.37	44	0.018	<1	1.14	0.004	0.02	<0.1	1.53	19.1	<0.1	<0.05	3	<0.5	<0.2
L12EBS136	Soil	136	0.52	36	0.004	<1	1.22	0.007	0.01	<0.1	1.20	34.0	<0.1	<0.05	3	<0.5	<0.2
L12EBS137	Soil	198	0.39	69	0.052	1	1.52	0.006	0.02	0.1	1.75	22.1	<0.1	<0.05	4	<0.5	<0.2
L12EBS138	Soil	122	0.67	79	0.019	<1	2.34	0.006	0.03	0.1	1.41	18.4	<0.1	<0.05	6	<0.5	<0.2
L12EBS139	Soil	169	0.94	57	0.015	2	3.48	0.003	<0.01	0.1	0.80	54.0	<0.1	<0.05	4	2.2	<0.2
L12EBS140	Soil	97	0.50	89	0.035	2	2.09	0.005	0.03	<0.1	0.82	18.9	<0.1	<0.05	5	0.9	<0.2
L12EBS141	Soil	103	0.13	40	0.001	<1	0.74	0.005	0.02	0.6	0.56	14.2	<0.1	<0.05	1	1.0	<0.2
L12EBS142	Soil	99	0.22	96	0.025	3	1.41	0.004	0.03	0.1	0.83	33.7	<0.1	<0.05	4	1.0	<0.2
L12EBS143	Soil	62	0.37	92	0.044	2	2.16	0.010	0.04	0.2	0.46	10.3	<0.1	<0.05	5	0.5	<0.2
L12EBS144	Soil	43	0.15	134	0.004	2	1.75	0.004	0.02	3.3	2.64	26.2	0.1	<0.05	2	3.3	<0.2

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Project: LACY/LIMESTONE
Report Date: July 07, 2012

CERTIFICATE OF ANALYSIS VAN12002837.1

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
L12EBS145	Soil	8.6	87.9	8.6	118	<0.1	92.7	43.3	2161	9.42	4.1	2.5	1.3	11	0.5	4.0	<0.1	54	0.35	0.099	13
L12EBS146	Soil	0.8	140.6	6.1	116	<0.1	87.1	25.8	221	9.54	88.7	4.9	0.8	6	<0.1	18.2	<0.1	207	0.08	0.066	5
L12EBS147	Soil	1.1	119.7	4.7	79	<0.1	42.6	23.6	1080	5.48	26.7	3.1	1.1	12	0.2	7.0	<0.1	166	0.23	0.086	5
LYS-07	Rock Pulp	7.7	45.8	4.7	53	0.6	34.8	14.7	500	3.12	6.8	660.8	1.4	43	0.3	0.9	0.1	66	0.88	0.057	7
LS12EBS01	Soil	3.8	176.9	95.3	271	4.2	32.8	37.3	513	7.52	40.4	33.3	0.2	145	2.9	0.5	0.7	215	2.36	0.058	5
LS12EBS02	Soil	1.2	252.3	6.4	110	1.5	69.6	44.2	642	9.86	37.2	18.2	0.6	13	0.4	5.9	0.1	210	0.21	0.094	4
LS12EBS03	Soil	4.2	193.4	6.7	98	2.2	96.3	33.7	1720	7.40	39.9	21.1	0.4	11	1.3	3.5	<0.1	169	0.38	0.090	10
LS12EBS04	Soil	1.3	162.2	8.1	119	2.4	86.9	30.7	567	7.38	73.3	3.1	0.6	12	0.7	5.3	0.1	181	0.19	0.081	3
LS12EBS05	Soil	4.7	211.3	19.3	127	3.5	129.7	35.3	1856	9.81	163.0	9.2	0.6	7	2.8	38.7	<0.1	141	0.33	0.045	6
LS12EBS06	Soil	1.4	176.2	6.9	79	1.4	168.2	38.0	754	7.90	122.8	10.3	0.4	10	0.3	14.4	<0.1	185	0.15	0.026	4
LS12EBS07	Soil	1.1	165.6	6.4	129	1.0	54.4	33.6	1082	10.13	27.9	11.8	0.5	7	0.1	2.9	<0.1	204	0.07	0.154	4
LS12EBS08	Soil	1.0	196.0	5.6	121	0.7	92.2	41.2	790	9.06	25.4	171.4	0.6	9	0.2	3.1	<0.1	245	0.08	0.106	4
LS12EBS09	Soil	1.8	184.3	8.4	119	0.3	56.3	31.2	930	6.78	18.5	5.9	0.6	15	0.7	1.7	0.1	164	0.36	0.075	5
LS12EBS10	Soil	1.1	180.3	7.0	72	0.6	48.4	40.0	1134	7.90	14.5	18.5	0.6	12	0.3	1.6	0.5	157	0.22	0.076	5
LS12EBS11	Soil	0.9	149.9	3.3	100	0.9	35.9	19.0	414	5.24	9.0	4.5	0.5	9	0.3	0.8	0.2	129	0.12	0.055	5
LS12EBS12	Soil	0.8	189.5	5.8	77	0.9	33.1	23.2	553	6.69	16.6	15.9	0.5	12	0.4	1.6	0.2	152	0.15	0.061	4
LS12EBS13	Soil	1.4	188.2	8.3	54	0.7	29.0	19.7	1191	9.38	19.0	152.7	0.8	9	0.1	5.1	<0.1	247	0.15	0.187	4
LS12EBS14	Soil	1.3	170.3	3.2	74	0.1	49.8	24.2	471	7.86	8.7	14.0	1.1	22	0.1	1.2	<0.1	259	0.21	0.064	5
LS12EBS15	Soil	1.2	153.3	2.4	57	<0.1	45.2	19.7	434	7.89	8.5	21.3	1.2	27	<0.1	0.6	<0.1	221	0.29	0.086	6

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CERTIFICATE OF ANALYSIS VAN12002837.1

	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
L12EBS145	Soil	45	0.18	52	0.002	3	0.56	0.006	0.06	<0.1	0.18	14.3	<0.1	<0.05	1	<0.5	<0.2
L12EBS146	Soil	198	0.31	36	0.002	2	2.20	0.004	0.03	0.2	1.68	23.5	<0.1	<0.05	4	1.3	<0.2
L12EBS147	Soil	59	0.44	63	0.082	2	2.05	0.008	0.03	0.2	0.62	14.4	<0.1	<0.05	6	0.8	<0.2
LYS-07	Rock Pulp	38	0.77	147	0.147	4	1.62	0.122	0.15	26.4	0.06	5.6	<0.1	0.06	6	<0.5	<0.2
LS12EBS01	Soil	47	0.44	38	0.093	2	4.17	0.007	0.02	<0.1	2.09	13.7	<0.1	<0.05	10	1.2	1.2
LS12EBS02	Soil	92	0.76	49	0.013	2	4.55	0.009	0.05	<0.1	0.24	17.5	0.1	<0.05	11	1.2	<0.2
LS12EBS03	Soil	123	1.00	45	0.006	2	3.38	0.009	0.05	<0.1	0.21	21.7	0.1	<0.05	10	0.8	<0.2
LS12EBS04	Soil	111	0.76	50	0.014	2	4.08	0.008	0.05	<0.1	0.20	12.8	0.1	<0.05	11	0.7	<0.2
LS12EBS05	Soil	87	0.19	62	0.002	2	1.24	0.004	0.07	0.1	0.33	33.1	0.1	<0.05	3	1.0	<0.2
LS12EBS06	Soil	168	1.22	56	0.009	3	3.57	0.007	0.05	0.1	0.17	31.0	0.1	<0.05	8	0.7	<0.2
LS12EBS07	Soil	86	0.95	43	0.007	2	4.50	0.006	0.06	<0.1	0.27	14.2	0.2	<0.05	12	1.2	<0.2
LS12EBS08	Soil	149	1.77	43	0.024	2	5.13	0.006	0.04	<0.1	0.18	17.8	<0.1	<0.05	14	0.9	<0.2
LS12EBS09	Soil	79	0.99	65	0.053	3	3.32	0.009	0.05	0.1	0.16	11.6	<0.1	<0.05	11	0.6	<0.2
LS12EBS10	Soil	62	1.19	48	0.054	2	3.03	0.008	0.05	0.1	0.15	13.9	<0.1	<0.05	10	1.2	<0.2
LS12EBS11	Soil	46	0.74	57	0.011	2	3.79	0.010	0.04	0.2	0.12	7.2	<0.1	<0.05	11	<0.5	<0.2
LS12EBS12	Soil	45	0.65	32	0.038	2	2.79	0.008	0.03	<0.1	0.29	9.7	<0.1	<0.05	9	0.5	<0.2
LS12EBS13	Soil	75	0.83	107	0.409	2	4.68	0.007	0.02	0.6	1.76	15.7	<0.1	<0.05	13	1.4	0.4
LS12EBS14	Soil	101	1.20	29	0.563	2	5.91	0.009	0.01	0.3	0.21	18.0	<0.1	<0.05	14	1.5	<0.2
LS12EBS15	Soil	102	1.26	28	0.588	3	6.82	0.011	0.01	0.3	0.27	21.3	<0.1	<0.05	13	1.9	<0.2

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Project: LACY/LIMESTONE
Report Date: July 07, 2012

QUALITY CONTROL REPORT VAN12002837.1

	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																					
L12EBS017	Soil	1.9	50.0	54.7	243	<0.1	335.2	74.1	2531	14.90	265.8	4.1	0.7	11	2.4	10.1	<0.1	211	0.33	0.128	42
REP L12EBS017	QC	1.9	49.4	55.9	240	0.1	338.3	76.5	2432	14.62	263.5	2.4	0.7	10	2.5	9.9	<0.1	208	0.32	0.124	41
L12EBS031	Soil	2.1	277.7	8.3	231	0.4	23.1	19.5	2834	11.05	110.6	14.0	0.6	9	0.7	82.5	<0.1	144	0.30	0.073	14
REP L12EBS031	QC	2.0	290.3	8.7	240	0.4	24.2	20.4	2995	11.60	110.6	15.6	0.7	9	0.6	81.2	<0.1	151	0.31	0.078	14
L12EBS051	Soil	1.6	165.0	7.2	120	0.2	54.0	19.8	775	6.36	35.6	5.3	1.3	11	0.4	37.8	<0.1	108	0.31	0.100	18
REP L12EBS051	QC	1.5	165.5	7.5	118	0.2	55.6	20.8	840	6.49	36.9	7.1	1.4	12	0.4	38.1	<0.1	109	0.30	0.099	19
L12EBS066	Soil	1.7	91.7	11.2	61	0.1	57.8	26.2	878	4.15	35.7	32.8	1.0	13	0.6	0.9	<0.1	134	0.38	0.064	5
REP L12EBS066	QC	1.5	89.5	11.2	63	0.1	56.1	25.7	844	4.20	34.8	3.6	1.0	12	0.5	0.9	<0.1	129	0.38	0.064	5
L12EBS086	Soil	0.9	33.0	4.7	51	0.3	45.2	15.3	222	4.36	8.4	<0.5	0.8	12	<0.1	2.7	<0.1	123	0.22	0.048	4
REP L12EBS086	QC	0.9	33.9	4.6	53	0.3	44.5	15.4	225	4.42	8.0	<0.5	0.7	13	0.2	2.7	<0.1	125	0.21	0.048	4
L12EBS100	Soil	0.1	23.6	2.5	36	<0.1	6.6	7.8	219	2.91	12.7	5.3	0.8	7	<0.1	0.4	<0.1	50	0.08	0.031	2
REP L12EBS100	QC	<0.1	24.2	2.5	36	<0.1	6.8	7.7	222	2.90	12.9	0.7	0.8	7	<0.1	0.5	<0.1	49	0.07	0.030	2
L12EBS120	Soil	3.0	90.2	24.6	113	0.2	42.3	28.3	4736	11.81	57.8	7.9	0.7	12	1.0	14.6	<0.1	257	0.43	0.126	14
REP L12EBS120	QC	3.0	87.9	24.2	113	0.2	40.9	27.6	4670	11.47	58.1	7.4	0.7	12	1.0	14.2	<0.1	254	0.43	0.124	14
L12EBS134	Soil	0.4	65.5	5.3	50	0.1	45.0	15.2	352	4.35	25.0	8.8	0.9	8	0.2	6.8	<0.1	114	0.28	0.052	5
REP L12EBS134	QC	0.5	66.0	5.4	51	0.1	42.1	14.6	335	4.19	25.1	18.5	0.9	8	0.2	6.8	<0.1	109	0.26	0.050	5
L12EBS145	Soil	8.6	87.9	8.6	118	<0.1	92.7	43.3	2161	9.42	4.1	2.5	1.3	11	0.5	4.0	<0.1	54	0.35	0.099	13
REP L12EBS145	QC	8.5	91.3	8.5	123	<0.1	93.5	43.4	2253	9.83	4.2	1.9	1.2	11	0.5	4.1	<0.1	57	0.32	0.106	13
Reference Materials																					
STD DS9	Standard	14.1	111.7	122.3	309	1.8	43.7	7.8	613	2.44	24.5	117.7	6.8	71	2.4	5.5	6.3	45	0.80	0.080	14
STD DS9	Standard	13.1	107.0	119.3	318	1.9	40.8	7.3	588	2.36	25.2	132.2	6.2	73	2.4	5.6	6.4	42	0.73	0.086	13
STD DS9	Standard	14.1	102.8	126.4	306	2.0	41.9	7.8	590	2.37	26.6	134.8	6.1	71	2.3	5.8	6.4	45	0.74	0.085	13
STD DS9	Standard	12.1	104.5	124.7	295	1.8	38.1	7.1	550	2.24	25.9	155.5	6.8	74	2.4	6.0	7.1	39	0.69	0.080	12
STD DS9	Standard	12.6	109.1	122.2	300	1.9	39.8	7.7	558	2.27	25.3	123.7	6.2	64	2.5	5.5	5.8	42	0.70	0.083	12
STD DS9	Standard	12.4	110.2	123.0	303	1.8	44.2	7.5	569	2.34	25.0	111.0	6.4	76	2.6	6.2	7.1	41	0.71	0.086	12
STD DS9	Standard	13.0	109.7	121.1	301	1.8	41.3	7.5	566	2.29	23.6	120.9	5.5	64	2.3	4.9	5.4	42	0.74	0.078	13
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
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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	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																	
L12EBS017	Soil	370	0.59	47	0.034	4	1.57	0.004	0.02	0.4	0.74	36.9	<0.1	<0.05	5	<0.5	<0.2
REP L12EBS017	QC	376	0.56	45	0.034	3	1.49	0.003	0.02	0.4	0.71	36.8	<0.1	<0.05	5	<0.5	<0.2
L12EBS031	Soil	19	0.09	199	0.002	3	0.83	0.003	0.07	0.4	5.16	21.8	0.1	<0.05	2	0.9	<0.2
REP L12EBS031	QC	20	0.09	200	0.002	3	0.89	0.002	0.07	0.3	5.18	23.3	0.1	<0.05	2	<0.5	<0.2
L12EBS051	Soil	41	0.38	116	0.019	7	5.17	0.006	0.04	0.2	0.34	15.2	<0.1	<0.05	5	1.8	<0.2
REP L12EBS051	QC	43	0.42	121	0.020	6	5.23	0.007	0.04	0.2	0.34	15.2	<0.1	<0.05	6	1.8	<0.2
L12EBS066	Soil	110	1.12	90	0.182	4	3.07	0.008	0.02	0.1	0.11	9.9	<0.1	<0.05	9	0.6	<0.2
REP L12EBS066	QC	109	1.16	87	0.181	3	3.28	0.008	0.02	0.1	0.13	10.0	<0.1	<0.05	8	0.7	<0.2
L12EBS086	Soil	60	0.53	56	0.136	1	2.94	0.009	0.02	<0.1	0.39	6.1	<0.1	<0.05	10	<0.5	<0.2
REP L12EBS086	QC	60	0.55	56	0.135	2	3.06	0.007	0.02	<0.1	0.39	6.5	<0.1	<0.05	9	<0.5	<0.2
L12EBS100	Soil	15	0.05	81	0.002	2	1.57	0.003	0.07	<0.1	0.14	4.4	<0.1	<0.05	2	<0.5	<0.2
REP L12EBS100	QC	14	0.05	85	0.001	1	1.53	0.003	0.07	<0.1	0.14	4.3	<0.1	<0.05	2	<0.5	<0.2
L12EBS120	Soil	87	0.28	141	0.022	2	2.45	0.004	0.03	0.4	2.42	31.5	0.2	<0.05	4	0.8	<0.2
REP L12EBS120	QC	86	0.26	144	0.021	2	2.35	0.004	0.03	0.3	2.17	30.9	0.1	<0.05	4	0.8	<0.2
L12EBS134	Soil	57	0.38	97	0.058	2	2.05	0.007	0.03	0.2	3.47	8.8	<0.1	<0.05	5	<0.5	<0.2
REP L12EBS134	QC	55	0.37	97	0.052	2	2.01	0.007	0.02	0.2	3.65	8.7	<0.1	<0.05	5	<0.5	<0.2
L12EBS145	Soil	45	0.18	52	0.002	3	0.56	0.006	0.06	<0.1	0.18	14.3	<0.1	<0.05	1	<0.5	<0.2
REP L12EBS145	QC	47	0.18	54	0.002	4	0.55	0.006	0.05	<0.1	0.20	14.1	<0.1	<0.05	1	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	127	0.63	301	0.123	3	0.94	0.085	0.38	3.1	0.20	2.7	5.5	0.24	5	5.6	5.2
STD DS9	Standard	124	0.63	310	0.111	3	0.97	0.106	0.41	3.2	0.22	2.2	5.8	0.14	5	5.7	5.4
STD DS9	Standard	131	0.61	300	0.110	4	0.94	0.095	0.37	3.1	0.21	2.9	6.1	0.11	5	5.2	5.1
STD DS9	Standard	116	0.59	311	0.107	3	0.90	0.105	0.38	3.2	0.22	3.5	5.5	0.16	5	5.1	5.0
STD DS9	Standard	121	0.62	284	0.103	2	0.90	0.079	0.35	3.1	0.21	2.2	5.5	0.08	5	5.8	5.3
STD DS9	Standard	122	0.61	289	0.109	3	0.90	0.088	0.35	3.1	0.20	2.4	5.6	0.17	4	6.0	5.4
STD DS9	Standard	122	0.61	293	0.105	3	0.93	0.100	0.36	3.0	0.22	2.6	5.5	0.13	4	5.7	5.5
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
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

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Mammoth Geological Ltd.**
2446 Bidston Road
Mill Bay BC V0R 2P4 Canada

Project: LACY/LIMESTONE
Report Date: July 07, 2012

QUALITY CONTROL REPORT VAN12002837.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001	1DX15 La ppm 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	0.2	<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

AcmeLabs Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Mammoth Geological Ltd.**
2446 Bidston Road
Mill Bay BC V0R 2P4 Canada

Project: LACY/LIMESTONE
Report Date: July 07, 2012

QUALITY CONTROL REPORT VAN12002837.1

		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
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	0.02	<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

MN

371,000 mE | 372,000 mE | 373,000 mE | 374,000 mE | 375,000 mE | 376,000 mE | 377,000 mE | 378,000 mE

5,465,000 mN | 5,464,000 mN | 5,463,000 mN | 5,462,000 mN | 5,461,000 mN

L12EBR05 L12EBR02 L12EBR01 L12EBR10 L12EBR09 L12EBR07 L12EBR08 L12EBR03 L12EBR11 L12EBR12 L12EBR39 L12EBR38 L12EBR17 L12EBR19 L12EBR21 L12EBR22 L12EBR23 L12EBR13 L12EBR18 L12EBR24 L12EBR15 L12EBR14 L12EBR16 L12EBR25 L12EBR26 L12EBR27 L12EBR28 L12EBR29 L12EBR40 L12EBR42 L12EBR30

975,678 978,286 974,273 974,230 974,271 974,189 840,458 843,547 850,203 953,117 946,400 947,340 705,563 700,827 949,912

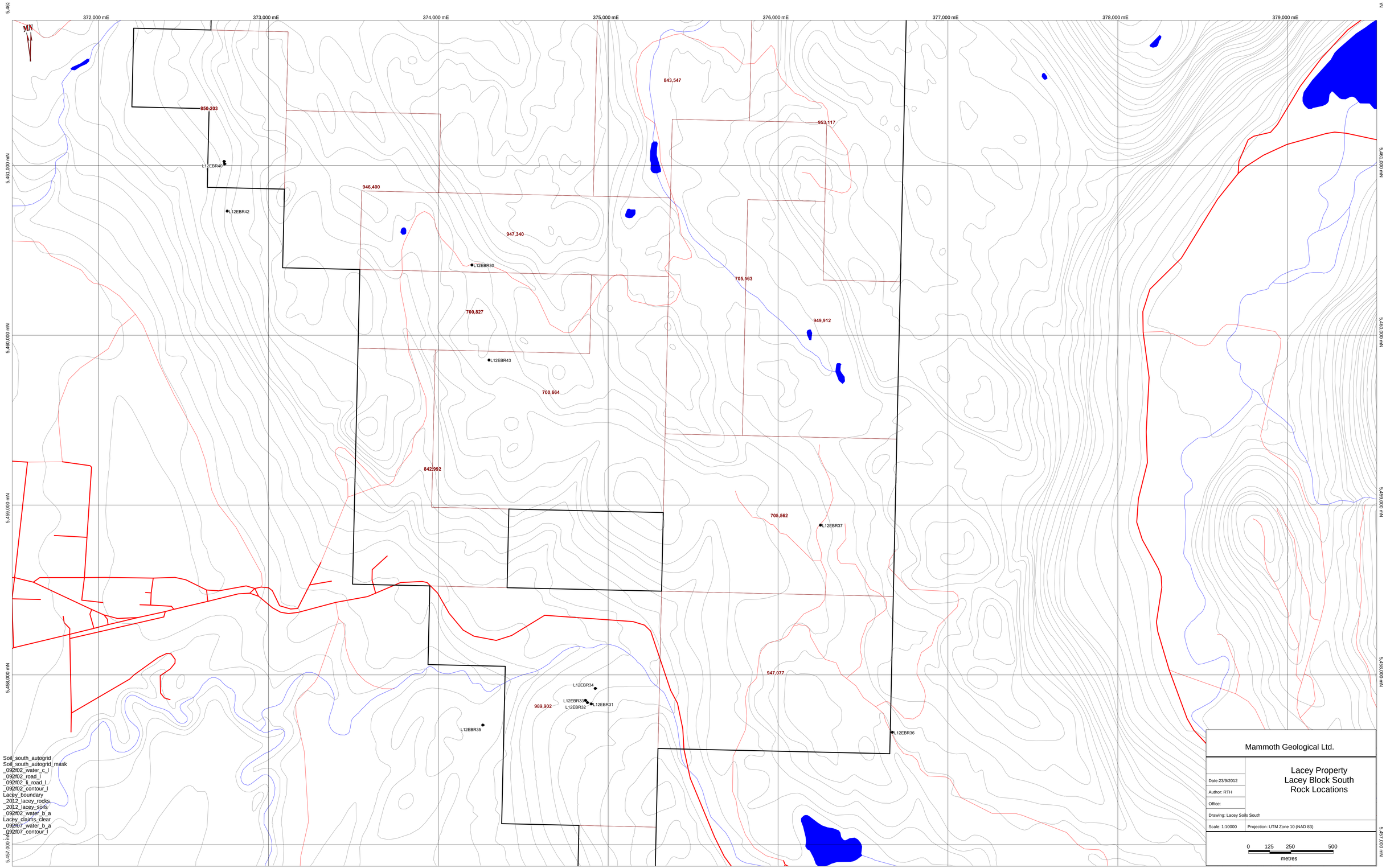
Soil_north_autogrid
Soil_north_autogrid_mask
Lacey_boundary
_2012_lacey_rocks
_2012_lacey_soils
Lacey_claims_clear
_092f07_water_b_a
_092f07_contour_l
_092f07_li_road_l
_092f07_road_l
_092f07_water_c_l
_2012_lacey_soils_cu_plus_108
...

Mammoth Geological Ltd.

Lacey Property
Lacey Block North
Rock Locations

Date: 23/9/2012
Author: RTH
Office:
Drawing: Lacey Soils North
Scale: 1:10000
Projection: UTM Zone 10 (NAD 83)

0 125 250 500
metres


372,000 mE
373,000 mE
374,000 mE
375,000 mE
376,000 mE
377,000 mE
378,000 mE
379,000 mE
5,462,000 mN
5,461,000 mN
5,460,000 mN
5,459,000 mN
5,458,000 mN
5,457,000 mN
MN
850,203
L12EBR40
L12EBR42
946,400
947,340
L12EBR30
700,827
L12EBR43
700,664
842,992
843,547
953,117
705,563
949,912
705,562
L12EBR37
947,077
L12EBR36
L12EBR34
L12EBR33
L12EBR32
L12EBR31
989,902
L12EBR35
Soil_south_autogrid
Soil_south_autogrid_mask
_092f02_water_c_l
_092f02_road_l
_092f02_li_road_l
_092f02_contour_l
Lacey_boundary
_2012_lacey_rocks
_2012_lacey_soils
_092f02_water_b_a
Lacey_claims_clear
_092f07_water_b_a
_092f07_contour_l
Mammoth Geological Ltd.
Lacey Property
Lacey Block South
Rock Locations
Date:23/9/2012
Author: RTH
Office:
Drawing: Lacey Soils South
Scale: 1:10000
Projection: UTM Zone 10 (NAD 83)
0
125
250
500
metres

377,000 mE
378,000 mE
379,000 mE
380,000 mE
381,000 mE

5,442,000 mN
5,441,000 mN
5,440,000 mN
5,439,000 mN

MN

LS12EBR13
LS12EBR12
LS12EBR10
LS12EBR11
LS12EBR07
LS12EBR06
LS12EBR04
LS12EBR03
LS12EBR02
LS12EBR05
LS12EBR01

Limestone_autogrid
Limestone_autogrid_mask
_2012_limestone_soils_au
_2012_limestone_rocks
_2012_limestone_soils
_092f02_water_c_l
_092f02_road_l
_092f02_li_road_l
_092f02_contour_l
Limestone_claims_clear
_092f02_water_b_a
Limestone_boundary

Mammoth Geological Ltd.

Lacey Property
Limestone Block
Rock Locations

Date:23/9/2012
Author: RTH
Office:
Drawing: Limestone Soils
Scale: 1:10000
Projection: UTM Zone 10 (NAD 83)

0 125 250 500
metres

MN

371,000 mE | 372,000 mE | 373,000 mE | 374,000 mE | 375,000 mE | 376,000 mE | 377,000 mE | 378,000 mE

5,465,000 mN | 5,464,000 mN | 5,463,000 mN | 5,462,000 mN | 5,461,000 mN

L12EBS18
L12EBS14
L12EBS11
L12EBS12
L12EBS09
L12EBS16
L12EBS17
L12EBS01
975,678
978,286
974,273
L12EBS15
L12EBS08
L12EBS04
L12EBS06
L12EBS03
L12EBS02
L12EBS126
974,230
L12EBS25
L12EBS30
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L12EBS70
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L12EBS66
974,189
L12EBS71
L12EBS72
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L12EBS75
L12EBS76
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L12EBS77
L12EBS78
L12EBS79
L12EBS80
L12EBS81
953,117
L12EBS82
L12EBS83
L12EBS86
L12EBS87
L12EBS88
L12EBS90
L12EBS91
L12EBS92
850,203
L12EBS127
946,400
L12EBS129
L12EBS128
L12EBS96
947,340
L12EBS93
L12EBS131
L12EBS130
L12EBS95
L12EBS94
705,563
700,827
949,912

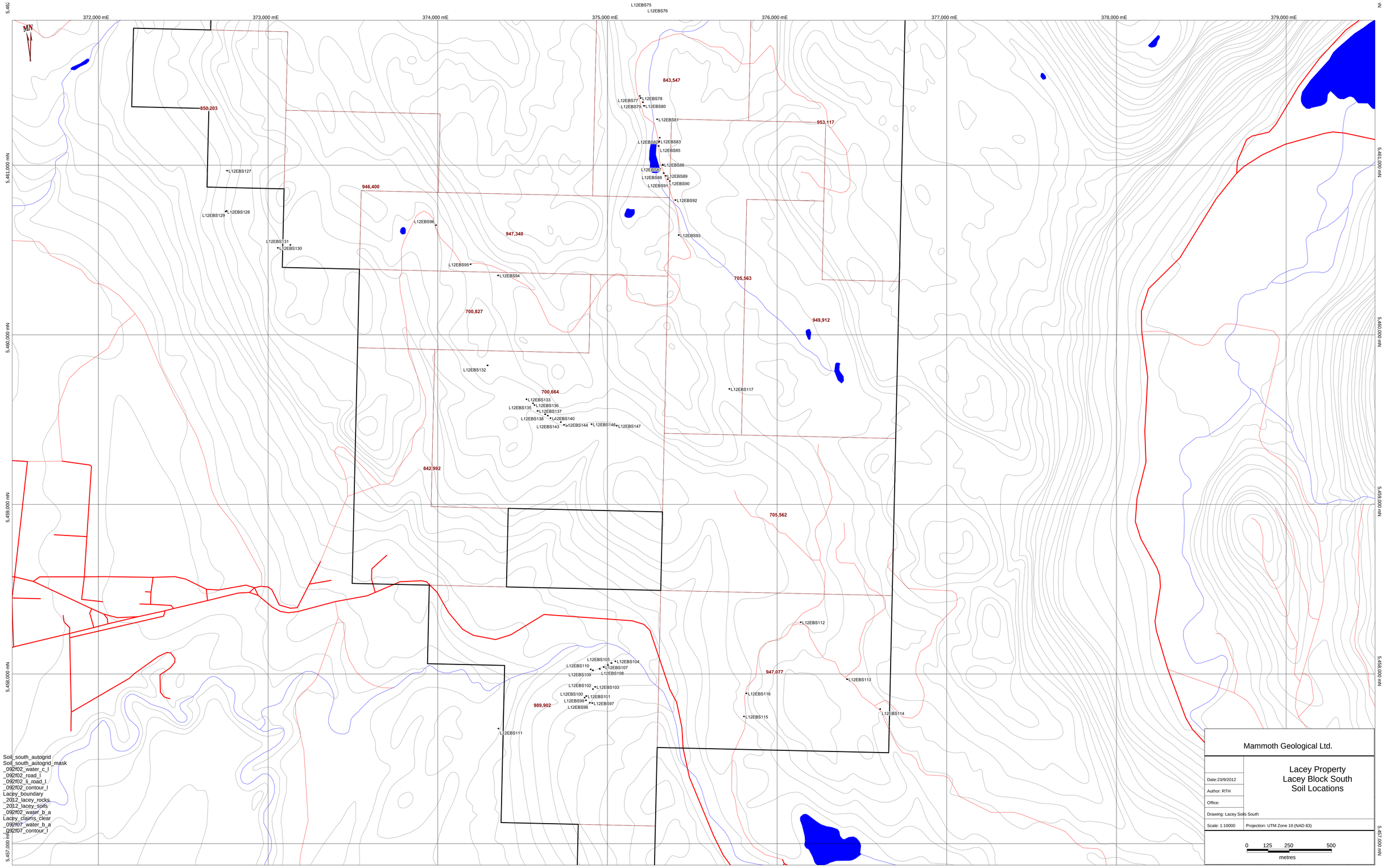
Soil_north_autogrid
Soil_north_autogrid_mask
Lacey_boundary
_2012_lacey_rocks
_2012_lacey_soils
Lacey_claims_clear
_092f07_water_b_a
_092f07_contour_l
_092f07_li_road_l
_092f07_road_l
_092f07_water_c_l
_2012_lacey_soils_cu_plus_108
...

Mammoth Geological Ltd.

Lacey Property
Lacey Block North
Soil Locations

Date:23/9/2012
Author: RTH
Office:
Drawing: Lacey Soils North
Scale: 1:10000
Projection: UTM Zone 10 (NAD 83)

0 125 250 500
metres


372,000 mE
373,000 mE
374,000 mE
375,000 mE
376,000 mE
377,000 mE
378,000 mE
379,000 mE
5,462,000 mN
5,461,000 mN
5,460,000 mN
5,459,000 mN
5,458,000 mN
5,457,000 mN
MN
L12EBS75
L12EBS76
843,547
850,203
953,117
946,400
947,340
705,563
949,912
700,827
842,992
705,562
947,077
989,902
700,664
L12EBS77
L12EBS78
L12EBS79
L12EBS80
L12EBS81
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L12EBS104
L12EBS105
L12EBS107
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L12EBS110
L12EBS111
Soil_south_autogrid
Soil_south_autogrid_mask
_092f02_water_c_l
_092f02_road_l
_092f02_li_road_l
_092f02_contour_l
Lacey_boundary
_2012_lacey_rocks
_2012_lacey_soils
_092f02_water_b_a
Lacey_claims_clear
_092f07_water_b_a
_092f07_contour_l
Mammoth Geological Ltd.
Lacey Property
Lacey Block South
Soil Locations
Date:23/9/2012
Author: RTH
Office:
Drawing: Lacey Soils South
Scale: 1:10000
Projection: UTM Zone 10 (NAD 83)
0
125
250
500
metres

377,000 mE
378,000 mE
379,000 mE
380,000 mE
381,000 mE

5,442,000 mN
5,441,000 mN
5,440,000 mN
5,439,000 mN

MN

LS12EBS13
LS12EBS15
LS12EBS12
LS12EBS02
LS12EBS10
LS12EBS01
LS12EBS07
LS12EBS04
LS12EBS05

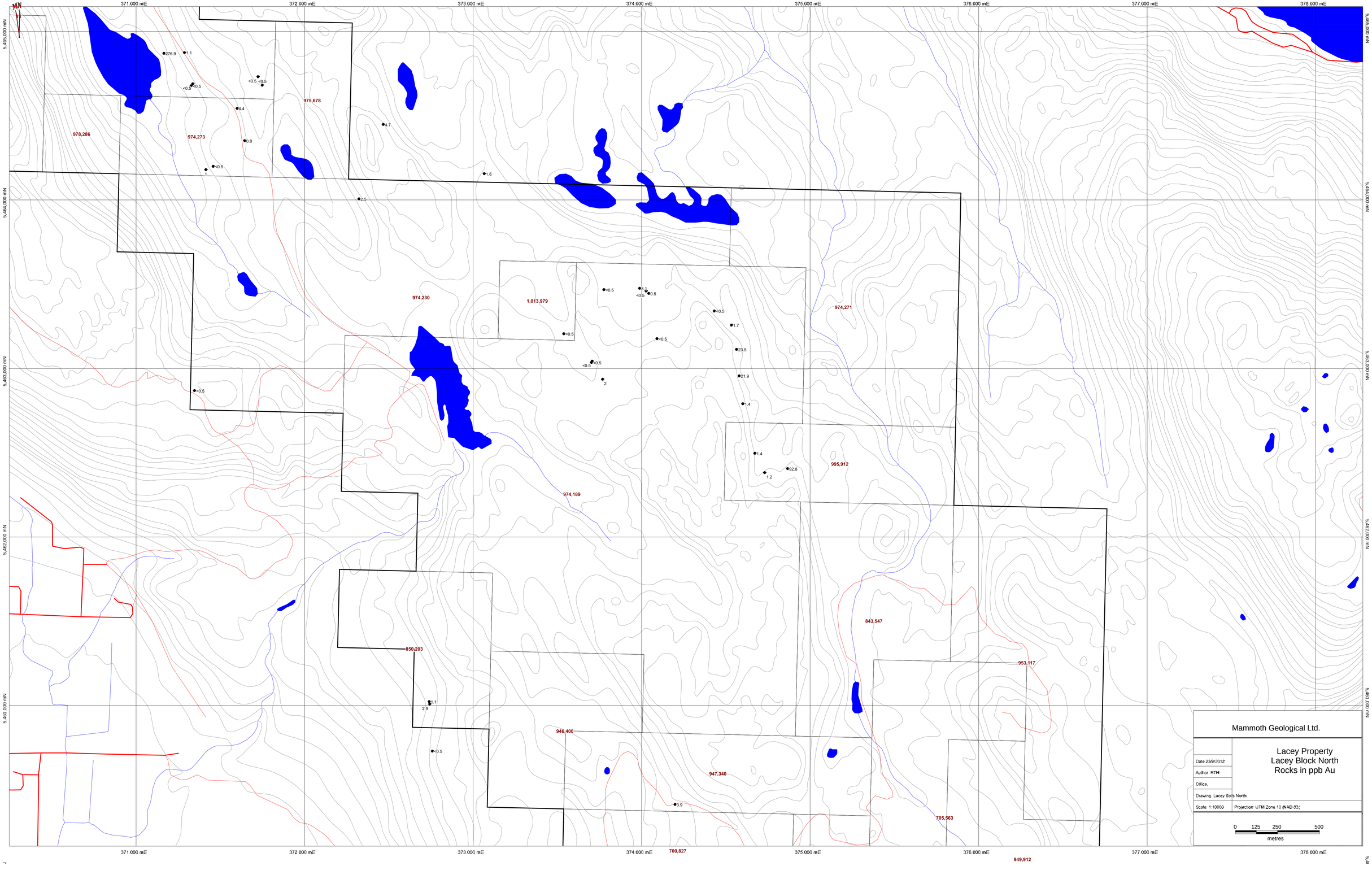
Limestone_autogrid
Limestone_autogrid_mask
_2012_limestone_soils_au
_2012_limestone_rocks
_2012_limestone_soils
_092f02_water_c_l
_092f02_road_l
_092f02_li_road_l
_092f02_contour_l
Limestone_claims_clear
_092f02_water_b_a
Limestone_boundary

Mammoth Geological Ltd.

Lacey Property
Limestone Block
Soil Locations

Date:23/9/2012
Author: RTH
Office:
Drawing: Limestone Soils
Scale: 1:10000
Projection: UTM Zone 10 (NAD 83)

0 125 250 500
metres


MN
371.000 mE
372.000 mE
373.000 mE
374.000 mE
375.000 mE
376.000 mE
377.000 mE
378.000 mE
5,465,000 mN
5,464,000 mN
5,463,000 mN
5,462,000 mN
5,461,000 mN
276.9
1.1
<0.5
<0.5
<0.5
<0.5
4.4
975,678
978,286
974,273
0.8
4.7
<0.5
1
1.6
2.5
974,230
1,013,979
<0.5
<0.5
<0.5
<0.5
<0.5
974,271
1.7
<0.5
23.5
<0.5
<0.5
2
21.9
1.4
<0.5
1.4
92.8
1.2
995,912
974,189
843,547
953,117
850,203
2.1
2.9
<0.5
946,400
947,340
3.9
705,563
700,827
949,912
Mammoth Geological Ltd.
Lacey Property
Lacey Block North
Rocks in ppb Au
Date:23/9/2012
Author: RTH
Office:
Drawing: Lacey Soils North
Scale: 1:10000
Projection: UTM Zone 10 (NAD 83)
0
125
250
500
metres

MN

371.000 mE | 372.000 mE | 373.000 mE | 374.000 mE | 375.000 mE | 376.000 mE | 377.000 mE | 378.000 mE

5,465,000 mN | 5,464,000 mN | 5,463,000 mN | 5,462,000 mN | 5,461,000 mN

955.9 | 18.3 | 1.3 | 6.7 | 47.6 | 14.7 | 12.9 | 975,678 | 137.5 | 978,286 | 974,273 | 9.7 | 3.1 | 5.1 | 22.6 | 76.6 | 974,230 | 1,013,979 | 14 | 3.2 | 33.4 | 101.4 | 35.5 | 974,271 | 12.7 | 13.5 | 1.9 | 2,602.4 | 36 | 11.6 | 11.6 | 75.6 | 22.1 | 14.6 | 63.5 | 995,912 | 51.2 | 52 | 974,189 | 843,547 | 850,203 | 953,117 | 75.5 | 33.3 | 946,400 | 24.8 | 947,340 | 9.5 | 705,563 | 700,827 | 949,912

Mammoth Geological Ltd.

Lacey Property
Lacey Block North
Rocks in ppm Cu

Date: 23/9/2012	
Author: RTH	
Office:	
Drawing: Lacey Soils North	
Scale: 1:10000	Projection: UTM Zone 10 (NAD 83)

0 125 250 500
metres

372,000 mE
373,000 mE
374,000 mE
375,000 mE
376,000 mE
377,000 mE
378,000 mE
379,000 mE

5,462,000 mN
5,461,000 mN
5,460,000 mN
5,459,000 mN
5,458,000 mN
5,457,000 mN

MN

850,203
946,400
947,340
700,827
842,992
1,014,114
989,902
700,664
843,547
953,117
705,563
949,912
705,562
947,077

1.1
2.9
<0.5
3.9
126.9
<0.5
<0.5
1.7
3.5
<0.5
<0.5
7.1
<0.5

Mammoth Geological Ltd.

Lacey Property
Lacey Block South
Rocks in ppb Au

Date 23/8/2012
Author RTH
Office.
Drawing. Lacey Soils South
Scale 1:10000
Projection: UTM Zone 10 (NAD 83)

0 125 250 500
metres

372,000 mE
373,000 mE
374,000 mE
375,000 mE
376,000 mE
377,000 mE
378,000 mE
379,000 mE

5,462,000 mN
5,461,000 mN
5,460,000 mN
5,459,000 mN
5,458,000 mN
5,457,000 mN

MN

850,203
946,400
842,992
989,902
1,014,114
947,340
700,827
700,664
843,547
953,117
705,563
949,912
705,562
947,077

75.5
33.3
24.8
9.5
13.7
5.4
6.9
28.3
31.2
25.3
7.5
1.9

Mammoth Geological Ltd.

Lacey Property
Lacey Block South
Rocks in ppm Cu

Date 23/9/2012
Author RTH
Office.
Drawing. Lacey Soils South
Scale 1:10000
Projection: UTM Zone 10 (NAD 83)

0 125 250 500
metres

377.000 mE
378.000 mE
379.000 mE
380.000 mE
381.000 mE
5,442,000 mN
5,441,000 mN
5,440,000 mN
5,439,000 mN
MN
24.4
24.9
15
31.7
6.1
13.3
4.3
7.7
303.7
210.8
<0.5
10.6
14.8

Mammoth Geological Ltd.

Lacey Property
Rocks in ppb Au

Date:23/9/2012
Author RTH
Office.
Drawing. Limestone Soils
Scale: 1:10000
Projection: UTM Zone 10 (NAD 83)

0 125 250 500
metres

377,000 mE
378,000 mE
379,000 mE
380,000 mE
381,000 mE
5,442,000 mN
5,441,000 mN
5,440,000 mN
5,439,000 mN
MN
293.9
2,421.5
244.6
760
57.9
129.8
179.6
217
251.5
27.5
32.4
1,872.1

Mammoth Geological Ltd.

Lacey Property
Rocks in ppm Cu

Date:23/9/2012
Author RTH
Office.
Drawing. Limestone Soils
Scale: 1:10000
Projection: UTM Zone 10 (NAD 83)

0 125 250 500
metres

MN

371,000 mE | 372,000 mE | 373,000 mE | 374,000 mE | 375,000 mE | 376,000 mE | 377,000 mE | 378,000 mE

5,465,000 mN | 5,464,000 mN | 5,463,000 mN | 5,462,000 mN | 5,461,000 mN

INSET 1

INSET 2

INSET 3

INSET 4

978,286 | 974,273 | 975,678 | 974,230 | 1,013,979 | 974,271 | 995,912 | 974,189 | 850,203 | 946,400 | 947,340 | 700,827 | 949,912 | 705,563 | 953,117 | 843,547

0 100 200 metres

Mammoth Geological Ltd.

	Lacey Property Lacey Block North Soils in ppb Au
Date: 23/9/2012	
Author: RTH	
Office:	
Drawing: Lacey Soils North	
Scale: 1:10000	Projection: UTM Zone 10 (NAD 83)

0 125 250 500 metres

MN

371,000 mE | 372,000 mE | 373,000 mE | 374,000 mE | 375,000 mE | 376,000 mE | 377,000 mE | 378,000 mE

5,465,000 mN | 5,464,000 mN | 5,463,000 mN | 5,462,000 mN | 5,461,000 mN

INSET 1

INSET 2

INSET 3

INSET 4

978,286 | 974,273 | 975,678 | 974,230 | 1,013,979 | 974,271 | 995,912 | 974,189 | 850,203 | 946,400 | 947,340 | 700,827 | 949,912 | 705,563 | 953,117 | 843,547

Mammoth Geological Ltd.

Lacey Property
Lacey Block North
Soils in ppm Cu

Date: 23/9/2012
Author: RTH
Office:
Drawing: Lacey Soils North
Scale: 1:10000
Projection: UTM Zone 10 (NAD 83)

0 125 250 500
metres

372,000 mE | 373,000 mE | 374,000 mE | 375,000 mE | 376,000 mE | 377,000 mE | 378,000 mE | 379,000 mE

5,462,000 mN | 5,461,000 mN | 5,460,000 mN | 5,459,000 mN | 5,458,000 mN | 5,457,000 mN

MN

850,203
946,400
947,340
700,827
842,992
1,014,114
989,902
843,547
953,117
705,563
949,912
705,562
947,077

INSET 4
INSET 5

Mammoth Geological Ltd.

Lacey Property
Lacey Block South
Soils in ppb Au

Date 23/9/2012
Author RTH
Office.
Drawing. Lacey Soils South
Scale 1:10000
Projection: UTM Zone 10 (NAD 83)

0 125 250 500
metres

372,000 mE | 373,000 mE | 374,000 mE | 375,000 mE | 376,000 mE | 377,000 mE | 378,000 mE | 379,000 mE

5,462,000 mN | 5,461,000 mN | 5,460,000 mN | 5,459,000 mN | 5,458,000 mN | 5,457,000 mN

MN

77.8 77.5

850,203

946,400

947,340

700,827

842,992

1,014,114

989,902

843,547

953,117

705,563

949,912

705,562

947,077

INSET 4

INSET 5

700,664

INSET 5

700,664

INSET 4

Mammoth Geological Ltd.

Lacey Property
Lacey Block South
Soils in ppm Cu

Date 23/9/2012
Author RTH
Office.
Drawing. Lacey Soils South
Scale 1:10000
Projection: UTM Zone 10 (NAD 83)

0 125 250 500
metres

377,000 mE
378,000 mE
379,000 mE
380,000 mE
381,000 mE
5,442,000 mN
5,441,000 mN
5,440,000 mN
5,439,000 mN
MN
INSET
152.7
14
21.3
15.9
18.2
4.5
21.1
18.5
33.3
5.9
3.1
9.2
171.4
11.8
10.3
0
125
250
500
metres

Mammoth Geological Ltd.

Lacey Property
Soils in ppb Au

Date:23/9/2012
Author RTH
Office.
Drawing. Limestone Soils
Scale: 1:10000
Projection: UTM Zone 10 (NAD 83)

377,000 mE
378,000 mE
379,000 mE
380,000 mE
381,000 mE
5,442,000 mN
5,441,000 mN
5,440,000 mN
5,439,000 mN

MN

INSET

188.2
170.3
153.3
189.5
252.3
149.9
193.4
180.3
176.9
184.3
162.2
165.6
211.3
196
176.2

0 5C 10C
metres

Mammoth Geological Ltd.

Lacey Property
Soils in ppm Cu

Date:23/9/2012
Author RTH
Office.
Drawing. Limestone Soils
Scale: 1:10000
Projection: UTM Zone 10 (NAD 83)

0 125 250 500
metres