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**BC Geological Survey
Assessment Report
34235**

2012 / 2013 PHASE II 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
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By: R. Tim Henneberry, P. Geo.
April 27, 2013

-2-
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 three pronged Phase II exploration program was completed between August 2012 and March 2013. The first period was August 31 to September 8, 2012 and consisted of two mini soil grids on the Lacey block and road and reconnaissance soil lines on the Limestone block. Two hundred and seventeen soil were taken on the Lacey block and a further 190 soils were taken on the Limestone Block. The second period was November 23 to November 28, 2012 and consisted of rock and soil sampling on the Lacey block. Twenty eight soils from two reconnaissance lines and 13 rock samples were taken. The final period was March 17 to March 22, 2013 and consisted of 218 road soils on the Lacey block and a one-half day visit to the Limestone block that was curtailed by heavy snow. These program were successful in locating eight areas of anomalous gold in soil and/or copper in soil values:

- 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.
- 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.
- Lacey RS Area I consists of a 950 metre semi-continuous zone of anomalous copper and gold values along a logging road in the area.
- Lacey RS Area II consists of a 450 metre semi-continuous zone of anomalous copper and gold values along a logging road in the area.
- Lacey brecciated fault zone carrying pods of semi-massive pyrite north of Lacey RS Area II returned grab values of 17 and 36 ppb Au.
- Road soil sampling at Limestone Area I suggests a possible north south trending zone based on anomalous gold-in-soil values on two parallel roads
- Road soil sampling at Limestone Area II also suggests a possible north south trending zone based on anomalous gold-in-soil values on two legs of a switchback road
- Scattered anomalous gold values in Limestone Area III requires some geological mapping and detailed prospecting. This includes the area hosting the Phase I anomalous gold rock samples.

A Phase II program of mini grid soil sampling at 5 of the areas, prospecting of all areas and additional Lacey road soil sampling is estimated at \$205,000.

The cost of the 2012/2013 Phase II Exploration Program was \$81,229.89 with \$61,536.63 allocated to the Lacey block and \$19,685.27 allocated to the Limestone block.

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INTRODUCTION

The purpose of this report is to compile the data from the 2012 / 2013 Phase II 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 author's consulting company. The author completed the last portion of the Phase II program on the Lacey block from March 17 to March 22, 2013. He visited the Limestone Block on the morning of March 20, 2013.

RELIANCE ON OTHER EXPERTS

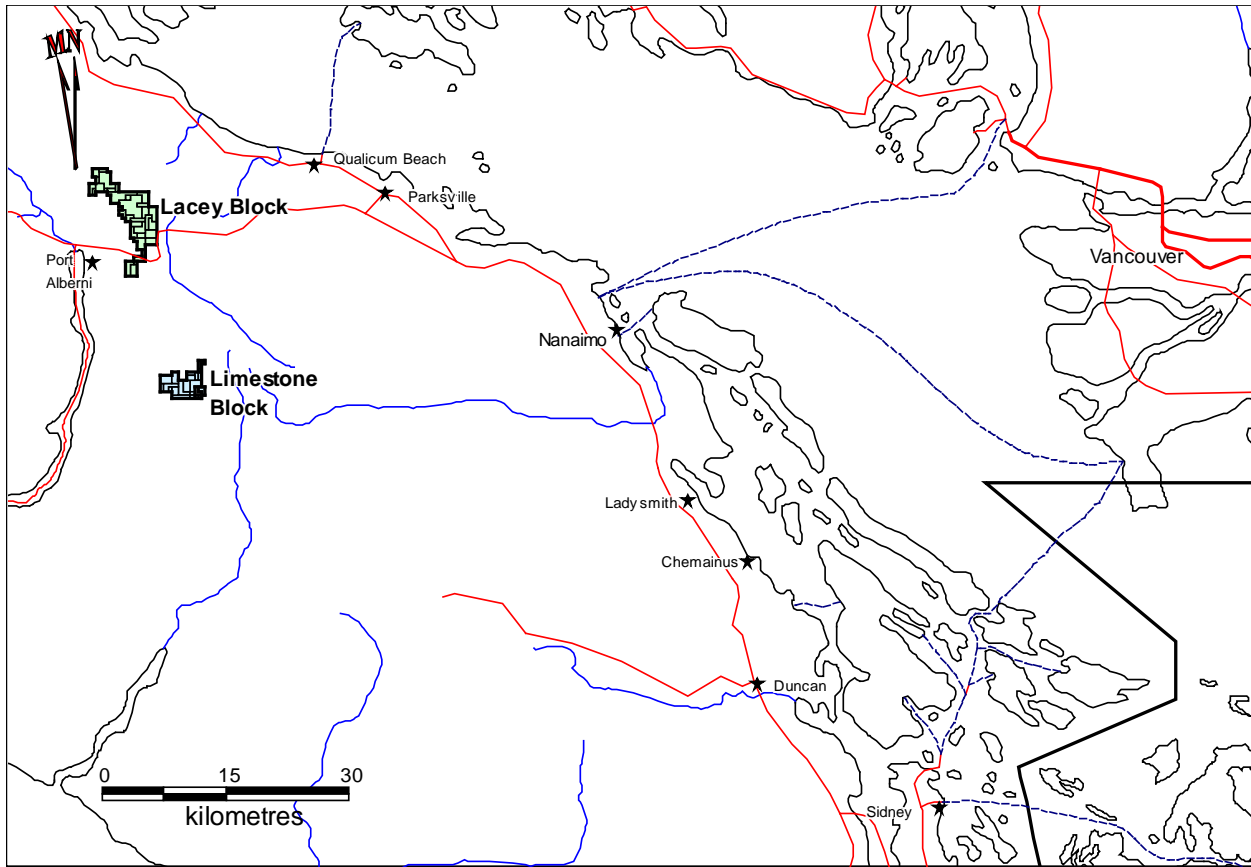
The author is not relying on a report or opinion of any experts. The ownership of the claims comprising the property and the ownership of the surrounding claims has been taken from the Mineral Titles Online database maintained by the British Columbia Ministry of Energy and Mines. The data on this site 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 32 claim, 3,539 hectare Lacey block and the 19 claim 1,397 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 546000N 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.



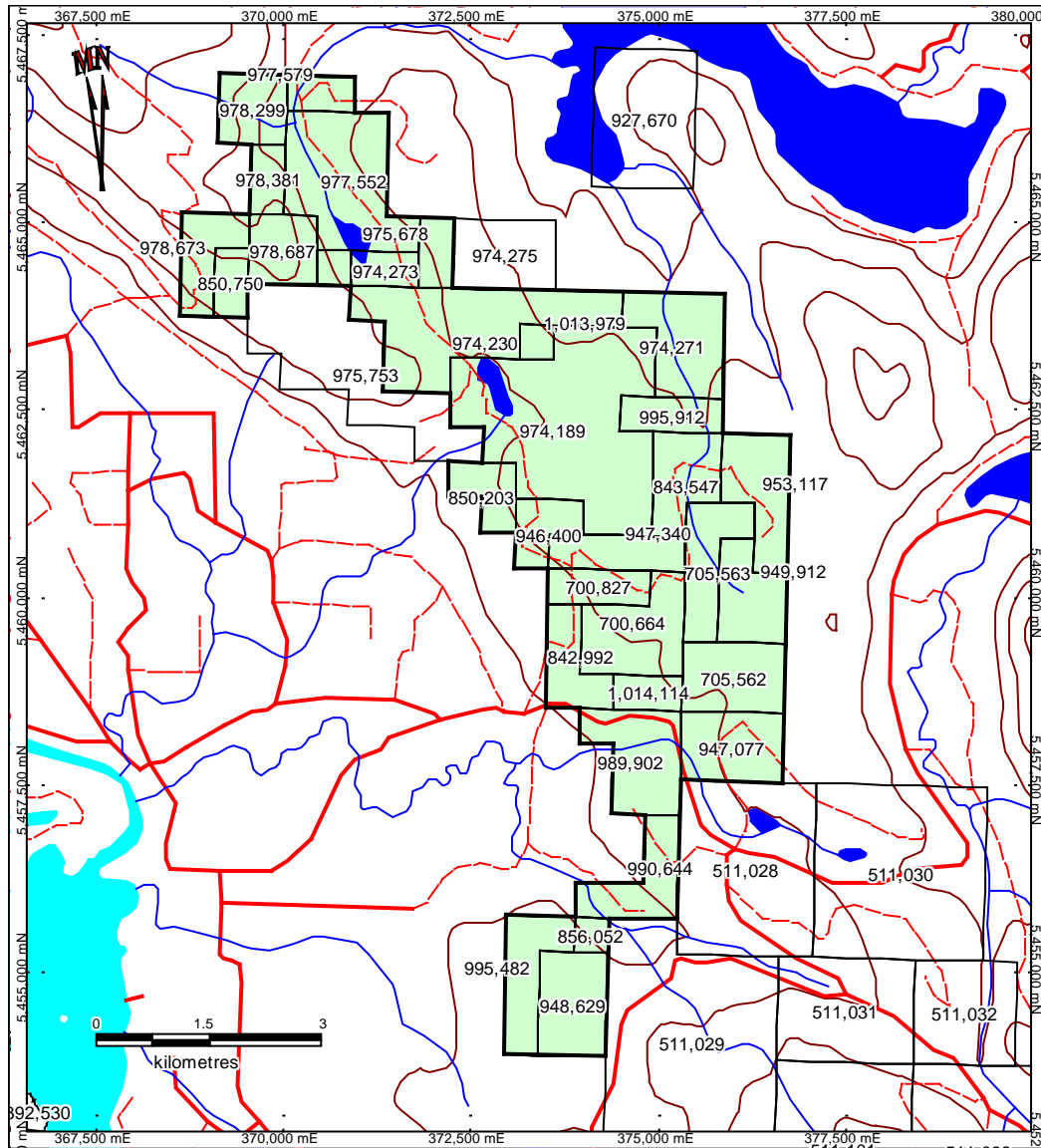
UTM Lat/Long NAD 83

Figure 1. Location Map

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 | 2016/oct/01 | 84.6015 |
| 841088 | LIME2 | 123745 (100%) | 092F | 2010/dec/17 | 2016/oct/01 | 21.1504 |
| 841096 | LIME3 | 123745 (100%) | 092F | 2010/dec/17 | 2016/oct/01 | 105.7448 |
| 841099 | LIME4 | 123745 (100%) | 092F | 2010/dec/17 | 2016/oct/01 | 126.8659 |
| 841914 | LIME3 | 123745 (100%) | 092F | 2010/dec/29 | 2016/oct/01 | 126.8925 |
| 841923 | LIME5 | 123745 (100%) | 092F | 2010/dec/29 | 2016/oct/01 | 21.1505 |
| 897997 | LIME | 123745 (100%) | 092F | 2011/sep/19 | 2016/oct/01 | 42.3007 |
| 937852 | LIME4 | 123745 (100%) | 092F | 2011/dec/18 | 2016/oct/01 | 126.8783 |
| 937859 | LIME5 | 123745 (100%) | 092F | 2011/dec/18 | 2016/oct/01 | 105.7622 |
| 939410 | LIME | 123745 (100%) | 092F | 2012/jan/01 | 2016/oct/01 | 21.1522 |
| 1003803 | DUCK | 123745 (100%) | 092F | 2012/jun/28 | 2016/oct/01 | 63.4134 |
| 1015567 | LIM10 | 123745 (100%) | 092F | 2012/dec/31 | 2015/jan/05 | 42.2876 |
| 1015732 | | 123745 (100%) | 092F | 2013/jan/05 | 2015/jan/05 | 42.2843 |
| 1015733 | | 123745 (100%) | 092F | 2013/jan/05 | 2015/jan/05 | 42.286 |
| 1015734 | LIME | 123745 (100%) | 092F | 2013/jan/05 | 2015/jan/05 | 63.4268 |
| 1016354 | | 123745 (100%) | 092F | 2013/jan/27 | 2015/jan/05 | 126.8828 |
| 1016355 | | 123745 (100%) | 092F | 2013/jan/27 | 2015/jan/05 | 148.027 |
| 1017682 | | 123745 (100%) | 092F | 2013/mar/10 | 2014/mar/10 | 63.4486 |
| 1018004 | | 123745 (100%) | 092F | 2013/mar/23 | 2014/mar/23 | 21.1505 |
| 19 | Claims | | | | | 1395.706 |

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 NAD 83 Zone 10

Figure 2a. Lacey Block Claim 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.

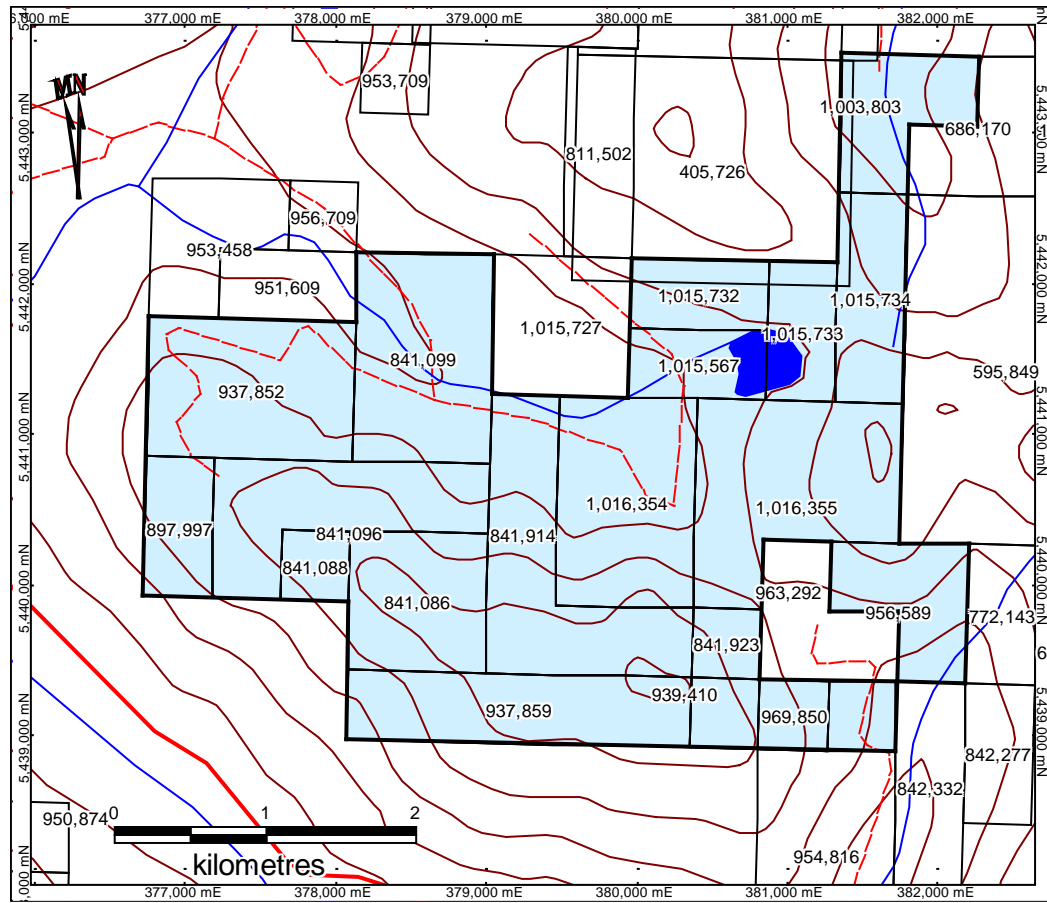
ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND
PHYSIOGRAPHY

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.

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 | 2016/jun/15 | 147.5159 |
| 700827 | | 123745 (100%) | 092F | 2010/jan/17 | 2016/jun/15 | 63.2133 |
| 705562 | HORNE1 | 123745 (100%) | 092F | 2010/feb/05 | 2016/jun/15 | 126.4581 |
| 705563 | HORNE2 | 123745 (100%) | 092F | 2010/feb/05 | 2016/jun/15 | 105.3495 |
| 842992 | LACY4 | 123745 (100%) | 092F | 2011/jan/14 | 2016/jun/15 | 84.3014 |
| 843547 | LASY | 123745 (100%) | 092F | 2011/jan/19 | 2016/jun/15 | 105.3261 |
| 850203 | | 123745 (100%) | 092F | 2011/mar/31 | 2016/jun/15 | 63.1991 |
| 850750 | LASY | 123745 (100%) | 092F | 2011/apr/04 | 2016/jun/15 | 42.1151 |
| 856052 | | 123745 (100%) | 092F | 2011/jun/01 | 2016/jun/15 | 126.5617 |
| 946400 | HORNE | 123745 (100%) | 092F | 2012/feb/05 | 2016/jun/15 | 63.2031 |
| 947077 | | 123745 (100%) | 092F | 2012/feb/08 | 2016/jun/15 | 126.4811 |
| 947340 | HORNE | 123745 (100%) | 092F | 2012/feb/09 | 2016/jun/15 | 84.277 |
| 948629 | HV | 123745 (100%) | 092F | 2012/feb/12 | 2016/jun/15 | 126.5726 |
| 949912 | HORNE6 | 123745 (100%) | 092F | 2012/feb/15 | 2016/jun/15 | 105.36 |
| 953117 | HORNE4 | 123745 (100%) | 092F | 2012/feb/27 | 2016/jun/15 | 126.3971 |
| 974189 | HORNE 5 | 123745 (100%) | 092F | 2012/mar/29 | 2016/jun/15 | 526.5533 |
| 974230 | HORNE 6 | 123745 (100%) | 092F | 2012/mar/29 | 2016/jun/15 | 294.8179 |
| 974271 | HORNE7 | 123745 (100%) | 092F | 2012/mar/29 | 2016/jun/15 | 147.4035 |
| 974273 | HORNE8 | 123745 (100%) | 092F | 2012/mar/29 | 2016/jun/15 | 42.1134 |
| 975678 | HORNE8 | 123745 (100%) | 092F | 2012/mar/31 | 2016/jun/15 | 42.1115 |
| 977552 | | 123745 (100%) | 092F | 2012/apr/03 | 2016/jun/15 | 252.6406 |
| 977579 | HORNE | 123745 (100%) | 092F | 2012/apr/03 | 2016/jun/15 | 42.1044 |
| 978286 | HORNE13 | 123745 (100%) | 092F | 2012/apr/05 | 2016/jun/15 | 21.0567 |
| 978299 | HORNE | 123745 (100%) | 092F | 2012/apr/05 | 2016/jun/15 | 84.2123 |
| 978381 | HORNE | 123745 (100%) | 092F | 2012/apr/06 | 2016/jun/15 | 42.1047 |
| 978673 | HORNE | 123745 (100%) | 092F | 2012/apr/09 | 2016/jun/15 | 84.2252 |
| 978687 | HORNE | 123745 (100%) | 092F | 2012/apr/09 | 2016/jun/15 | 84.2234 |
| 989902 | HORNE | 123745 (100%) | 092F | 2012/may/24 | 2016/jun/15 | 147.5639 |
| 990644 | HORNE | 123745 (100%) | 092F | 2012/may/26 | 2016/jun/15 | 105.4436 |
| 995912 | HORNE4 | 123745 (100%) | 092F | 2012/jun/10 | 2016/jun/15 | 63.1852 |
| 1013979 | Lasy | 123745 (100%) | 092F | 2012/oct/25 | 2016/jun/15 | 21.06 |
| 1014114 | Lasy | 123745 (100%) | 092F | 2012/oct/30 | 2016/jun/15 | 42.15 |
| 32 | Claims | | | | | 3539.3007 |

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.



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Figure 2b. Limestone Block Claim Map

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.

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 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).

A 2012 Phase I exploration program was completed under the supervision of the author in early 2012. A total of 43 rocks and 147 road soils were taken. Two anomalous areas were identified for follow up. The follow up program is the basis of this report.

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).

A 2012 Phase I exploration program was completed under the supervision of the author in early 2012. A total of 15 rocks and 15 road soils were taken. A semi-continuous zone of copper and gold in soil was identified for follow up. The follow up program is the basis of this report.

GEOLOGICAL SETTING

(Summarized from Massey and Friday, 1989)

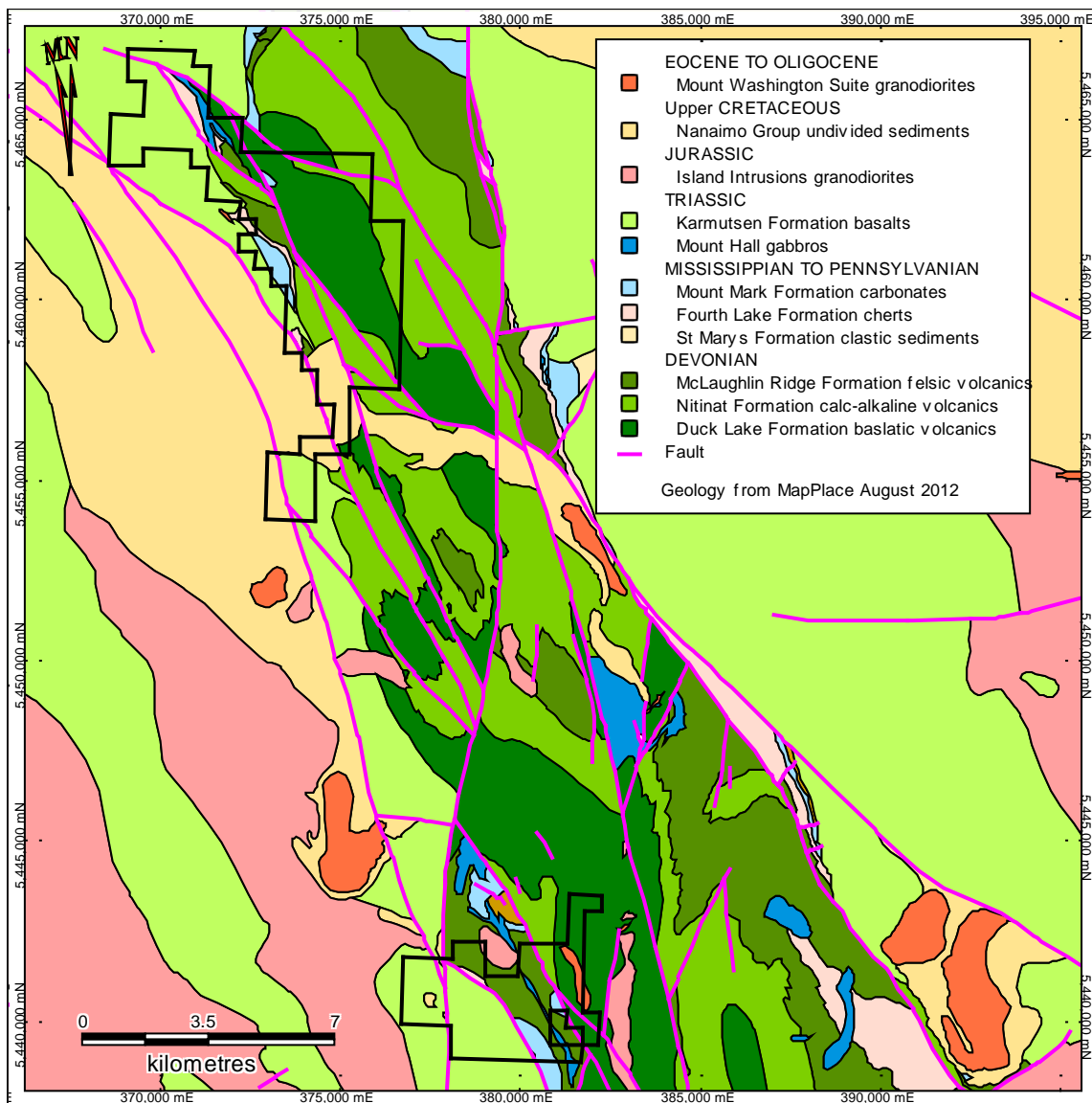
The Lacey properties lie within the Alberni – Nanaimo Lakes area at the northwestern end of the Cowichan Uplift, one of a series of major geanticlines constituting the structural fabric of southern Vancouver Island. The area lies within the Wrangellia terrane, which on Vancouver Island comprises three 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).

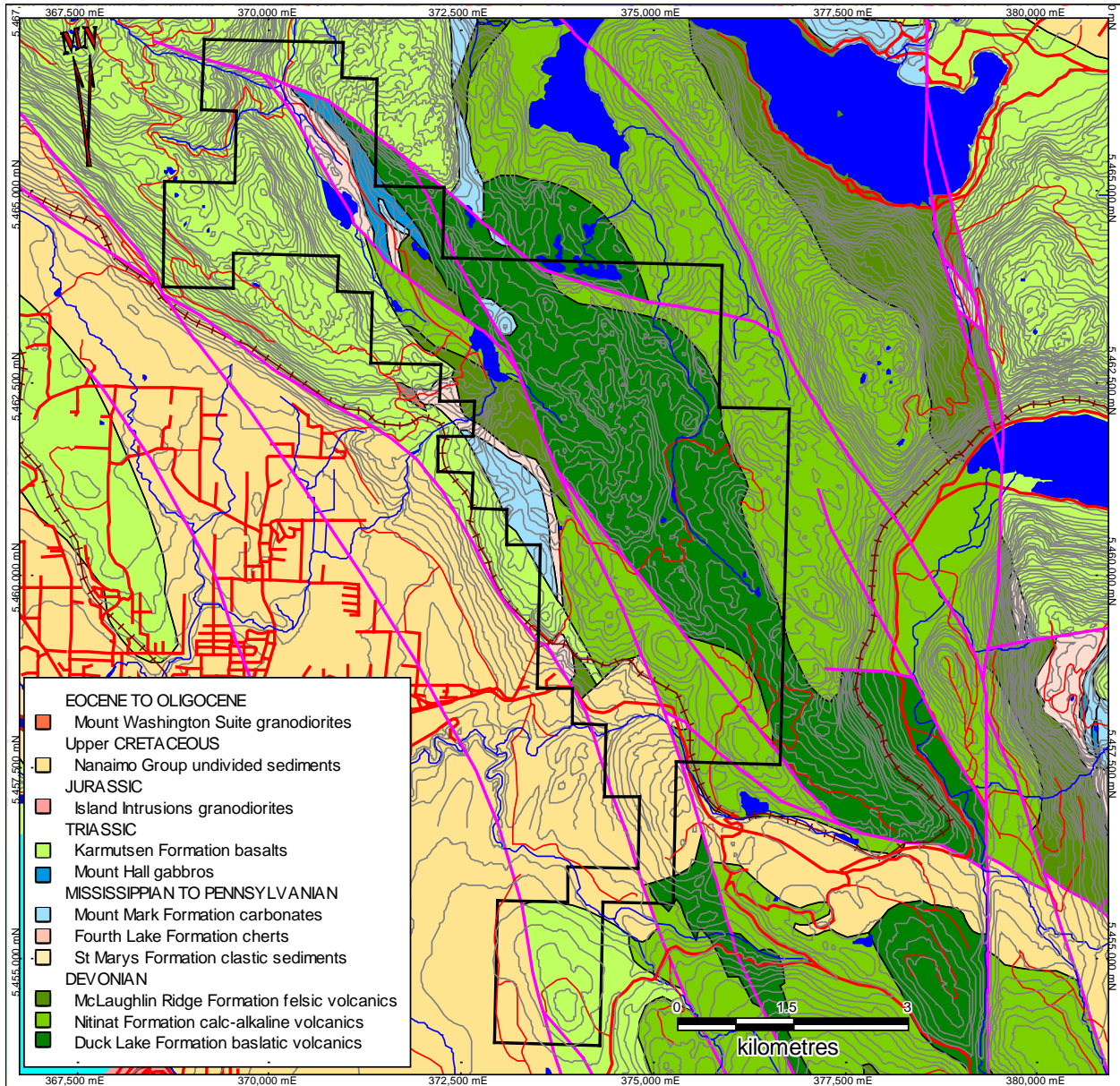
Laanela (1987) found the claims are underlain predominantly by northwest trending volcanic-volcaniclastic-sedimentary rocks of the Paleozoic Sicker Group, except for the margins of the property where the younger mafic volcanics of the Vancouver Group and sediments of the Nanaimo Group occur. The Sicker Group rocks form a "jigsaw puzzle" of fault blocks and display a very complex stratigraphy with numerous intercalations and rapid lateral 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.



UTM NAD 83 Zone 10

Figure 3. Regional Geology

Unit 1 (oldest?) consists of basaltic to andesitic volcanic and volcanoclastic 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.



UTM NAD 83 Zone 10

Figure 4. Lacey Block Geology

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 volcanoclastic "melange" containing clasts and blocks (up to 1m) 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.

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.

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.

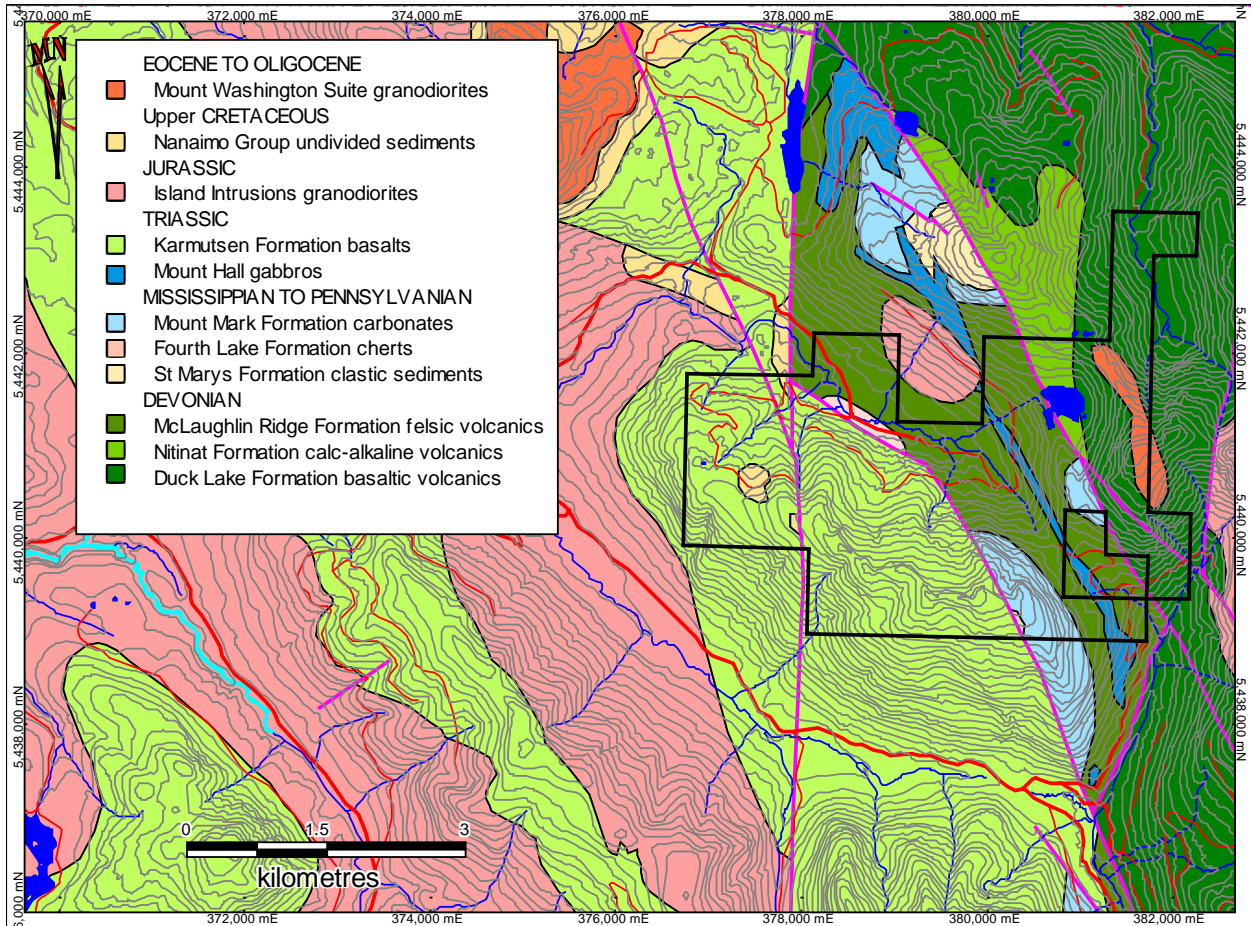
Unit 5 comprises dacitic to andesitic flows which underlie a large area in the southern portion of the map-area. These flows are plagioclase and hornblende porphyritic, with phenocrysts up to 5 mm. Minor tuffaceous, cherty, and fragmental beds are also present. This unit is also part of the Nitinat Formation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



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Figure 5. Limestone Block Geology

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.

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, five areas of anomalous gold-in-soil and/or copper-in-soil within the property boundaries: Lacey NE Au Cu area, Lacey Central Cu area, Lacey RS I area and Lacey RS II area and Limestone area as shown on Figure 6.

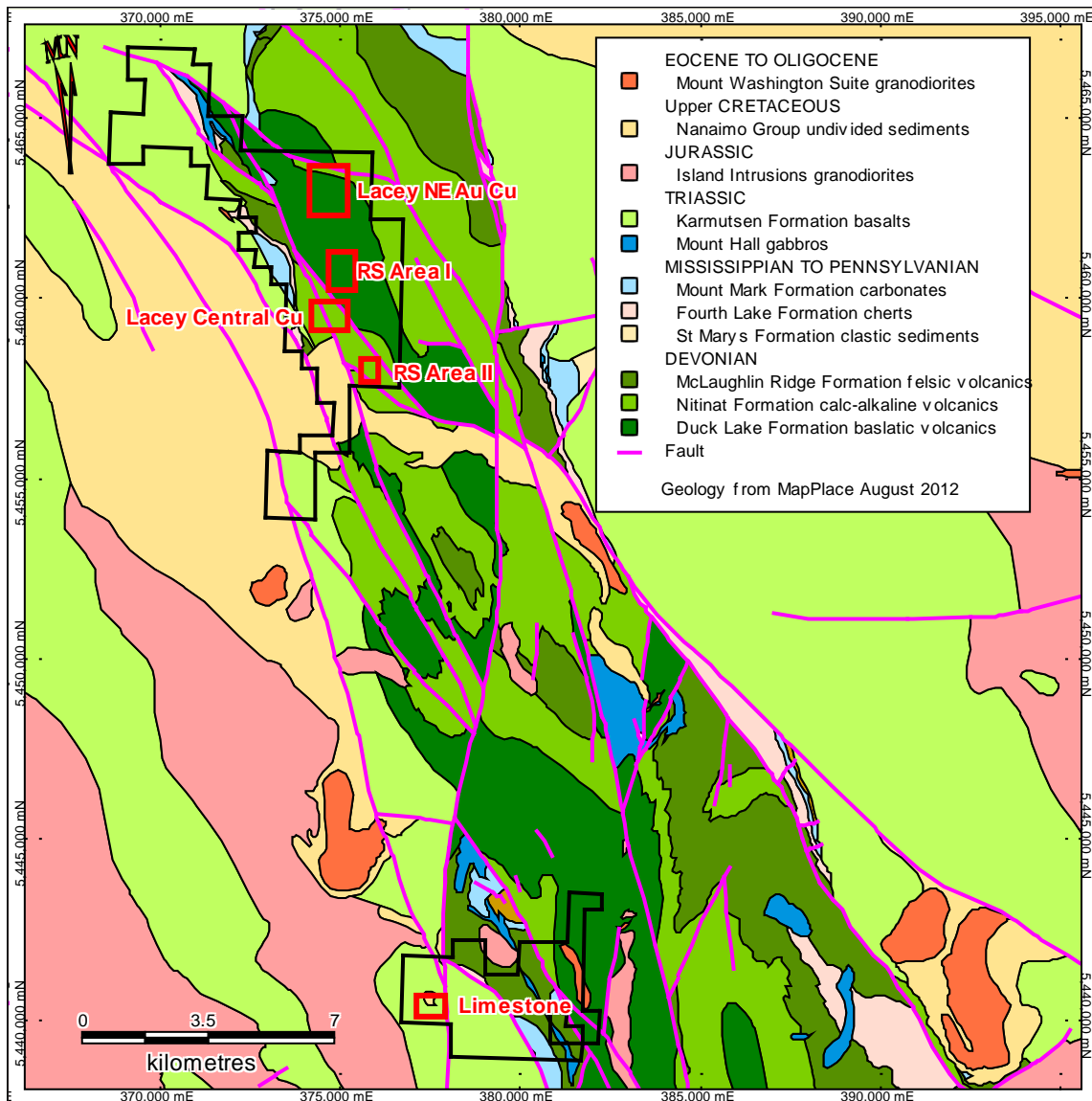
The Lacey NE Au Cu area was identified during the Phase I program and consists of two sections of continuous anomalous gold in soil and copper in soil over a 1500 metre section of logging road. A Phase II mini grid over the area confirmed the anomaly.

The Lacey Central Cu area was identified during the Phase I program and consists of a 750 metre zone of continuous anomalous copper in soil was located. A Phase II mini grid over the area did not expand or enhance the copper anomaly.

Two new areas were located during the Phase II Lacey road soil sampling program. Lacey RS Area I consists of a 950 metre semi-continuous zone of anomalous copper and gold values where thirteen of the 17 samples taken were above the 75th percentile for property wide copper and ten of the 17 were above the 75th percentile for property wide gold.

Lacey RS Area II consists of a 450 metre semi-continuous zone of anomalous copper and gold in soil where eleven of the 12 samples were above the 75th percentile for both property wide copper and property wide gold.

Three sub areas have been identified within the main Limestone area. Limestone area I lies in the central eastern section of the claim block and consists of two short zones of anomalous gold in soil values over two parallel roads, suggesting a possible structure running perpendicular to the road. Limestone area II lies in the northwest corner of the claim group and consists of two areas of anomalous values on the two legs of a switchback road, again suggesting a possible north trending anomalous zone. Limestone area III lies on the southwestern section of the claim group and consists of several clusters of gold values in an area where Phase I rock sampling obtained values of 211 and 304 ppb Au.



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Figure 6. Mineralization

The Lacey Project is being explored for polymetallic quartz veins. 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 Lacey would be classified as igneous hosted. Igneous hosted veins typically occur in country rock marginal to an intrusive stock. Typically veins crosscut volcanic sequences and follow volcano- tectonic structures, such as caldera ring-faults or radial faults. In some cases the veins cut older intrusions. Veins postdate deformation and metamorphism. Many veins are associated with dikes following the same structures. The age of these veins is Proterozoic 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 drusy. 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.

Igneous hosted polymetallic veins are generally comprised of quartz, carbonate (rhodochrosite, siderite, calcite, dolomite), sometimes specular hematite, hematite, barite and fluorite. Carbonate species may correlate with distance from source of hydrothermal fluids with proximal calcium and magnesium-rich carbonates and distal iron and manganese-rich species.

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.

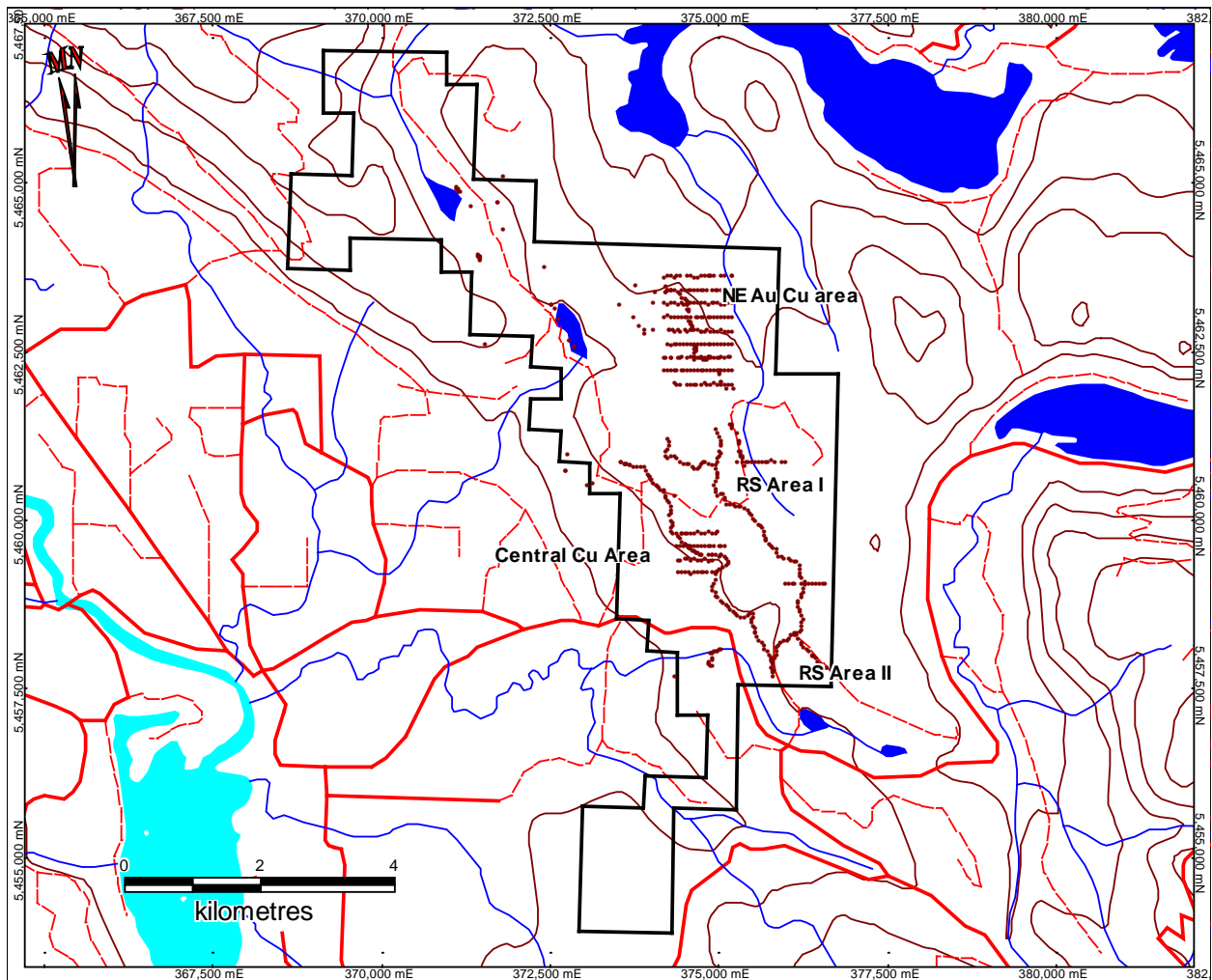
British Columbia examples of metasediment hosted polymetallic vein deposits include: the Slocan-New Denver-Ainsworth district, the Trout Lake Camp and St. Eugene Mine. Other examples are the Mayo District in the Yukon and the Couer d'Alene District in Idaho.

EXPLORATION

The 2012 / 2013 Phase II exploration program consisted of road and mini grid soil sampling and rock sampling, divided over 3 separate time periods. The first period was August 31 to September 8, 2012 and consisted of two mini soil grids on the Lacey block and road and reconnaissance soil lines on the Limestone block. Two hundred and seventeen soil were taken on the Lacey block and a further 190 soils were taken on the Limestone Block. The second period was November 23 to November 28, 2012 and consisted of rock and soil sampling on the Lacey block. Twenty eight soils from two reconnaissance lines and 13 rock samples were taken. The final period was March 17 to March 22, 2013 and consisted of 218 road soils on the Lacey block and a one-half day visit to the Limestone block that was curtailed by heavy snow.

The Phase II program followed up on areas that were identified during the initial Phase I program and completed initial testing of other areas. The follow up areas were the NE Au Cu area and the Central Cu area on the Lacey block where mini grids of 200 metre lines sampled at 50 metre intervals were completed. In addition rock sampling and 10.9 kilometres of road soil sampling at 50 metres intervals were completed on the Lacey block. Four reconnaissance cross country soil lines and additional road soil sampling was completed on the Limestone block at 50 metre intervals totaling 9.8 line kilometres. Rocks were grab samples of alteration and limited mineralization.

The mini grid soil sampling consisted of 50 metre spaced samples along 200 metre spaced lines. Each soil line was flagged and sampled at 50 metre intervals along the line measured with a hip chain. 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 and placed in the corresponding soil bag. Each sample location was marked as a waypoint in a GPS unit in the map datum NAD 83. The data was downloaded nightly to computers.



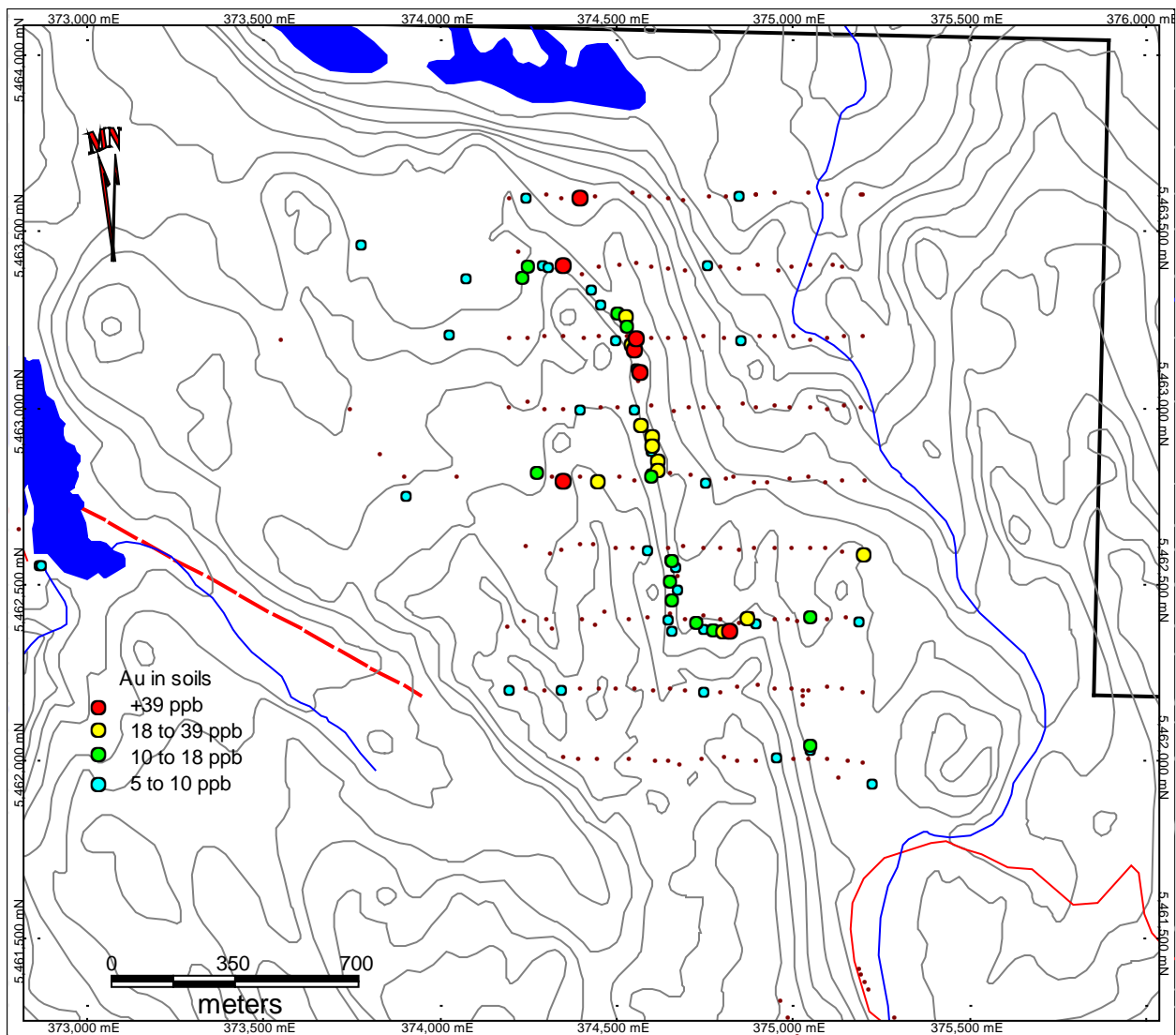
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Figure 7. Lacey Block Anomalous Areas

The road soil sampling was spaced more or less at 50 metre intervals 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 Phase II exploration program 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.

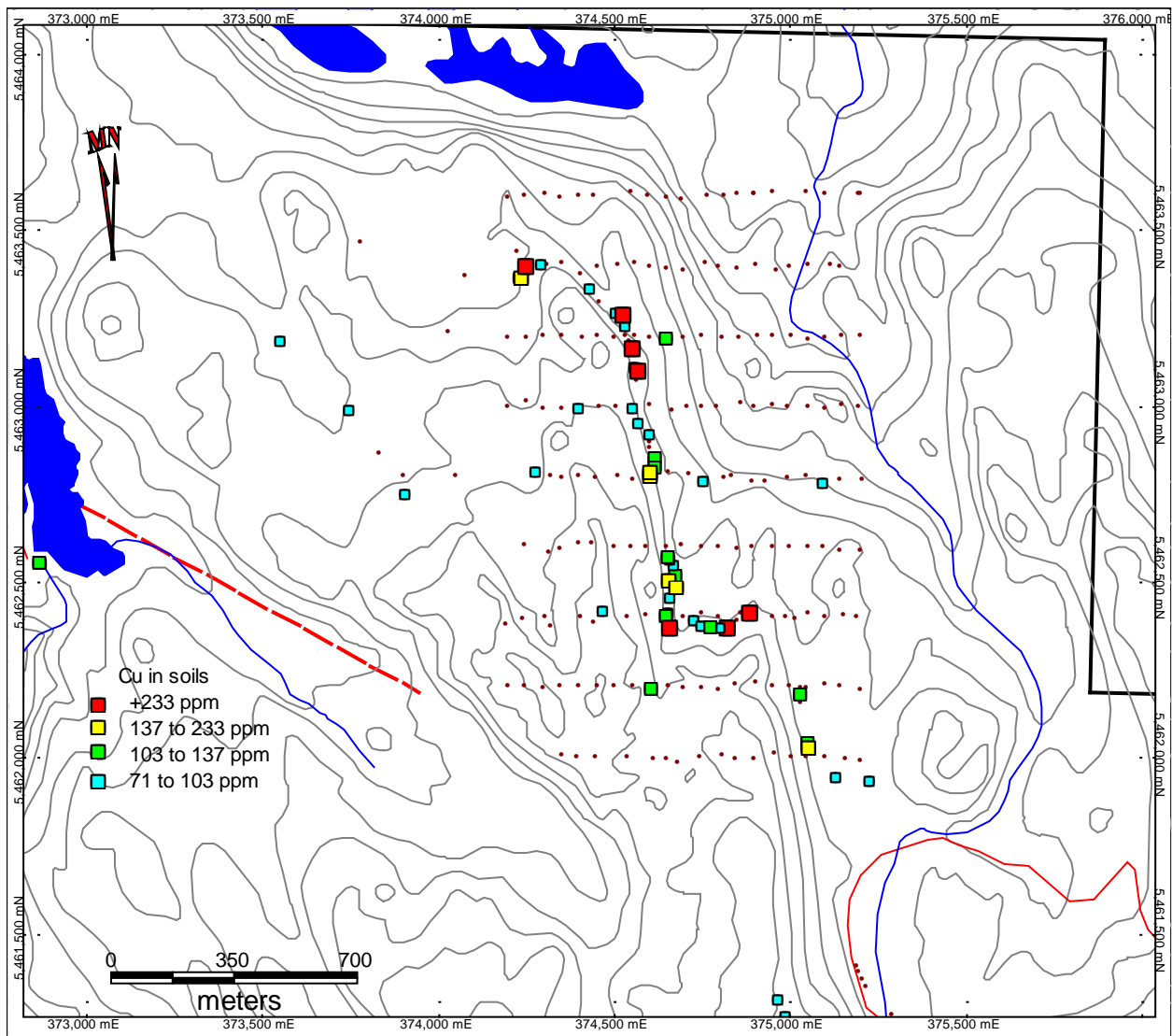


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Figure 8. Lacey Block NE Gold In Soil

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.

There are now four areas of anomalous gold and/or copper in soil on the Lacey block that will require follow up: NE Au Cu area, Central Cu area, road sampling (RS Area I) and RS Area II). The semi-massive pyrite in the brecciated fault zone north of RS Area II also needs to be further investigated. There are three areas of anomalous gold in soil values on the Limestone block (Areas I, II and III). Two anomalous gold rock samples were also located in Area III.



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Figure 9. Lacey Block NE Copper in Soil

Lacey Block

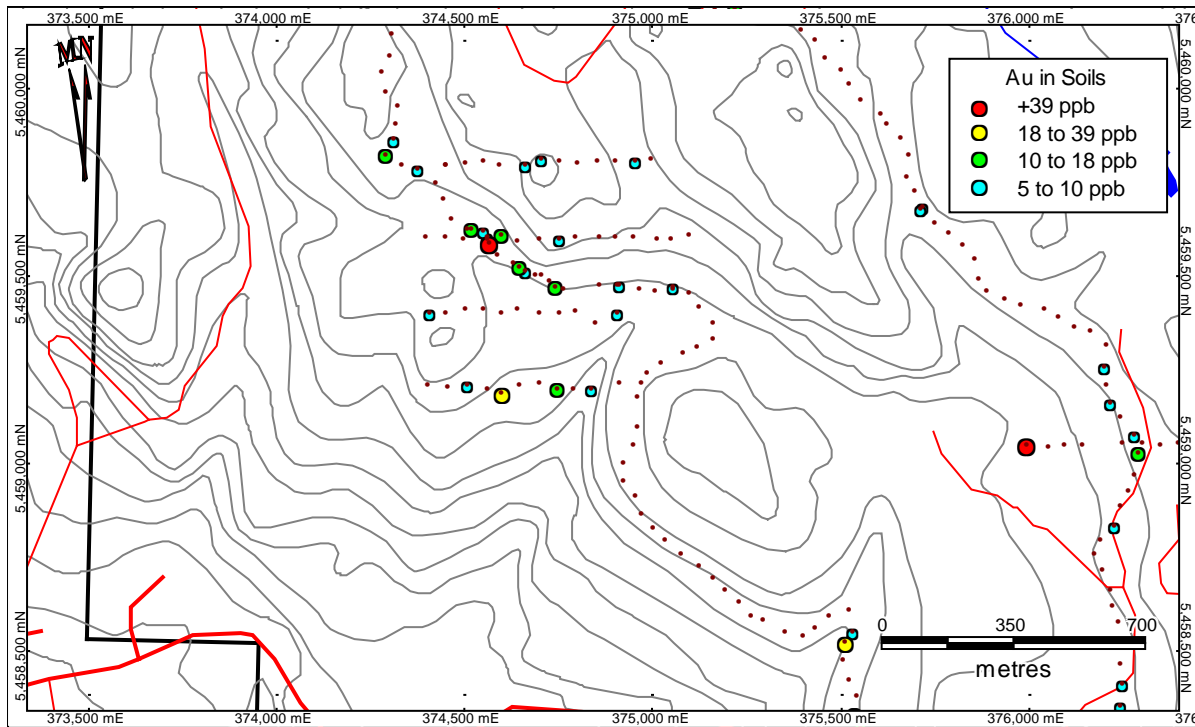
The Phase II program initially followed up on the two anomalous areas located during the Phase I program: the NE Au-Cu area and the Central Cu area. Subsequently, rock sampling and road soil sampling was completed in the southern portion of the property.

All the Lacey soil samples were compiled into 1 file and the geochemistry statistics were run for the entire file. The statistics are shown in Table 2.

Table 2. Lacey Geochemistry Statistics

| Percentile | 75 th | 90 th | 95 th | 98 th | Maximum | Count |
|------------|------------------|------------------|------------------|------------------|---------|-------|
| ppb Au | 5 | 10 | 18 | 39 | 2304 | 628 |
| ppm Cu | 71 | 103 | 137 | 233 | 928 | 628 |

The NE area (Figures 8 and 9) was identified during the Phase I program. The NE area is underlain by basalts of the Sicker Group Duck Lake Formation. Iron carbonate alteration was noted in the basalts and some local iron carbonate shears and fractures. A follow up mini-grid of 9 one thousand metre E-W lines spaced at 200 metre intervals was sampled at 50 metre intervals. The grid sampling did not expand the gold anomaly to any great extent though it did appear to substantiate the existing anomaly with anomalous values on most of the lines as they crossed the areas of Phase I road soil sampling. The grid sampling did not expand the existing copper anomaly. In addition, the grid sampling did not appear to substantiate the Phase I road soil sampling copper results. Detailed prospecting of this area is required.

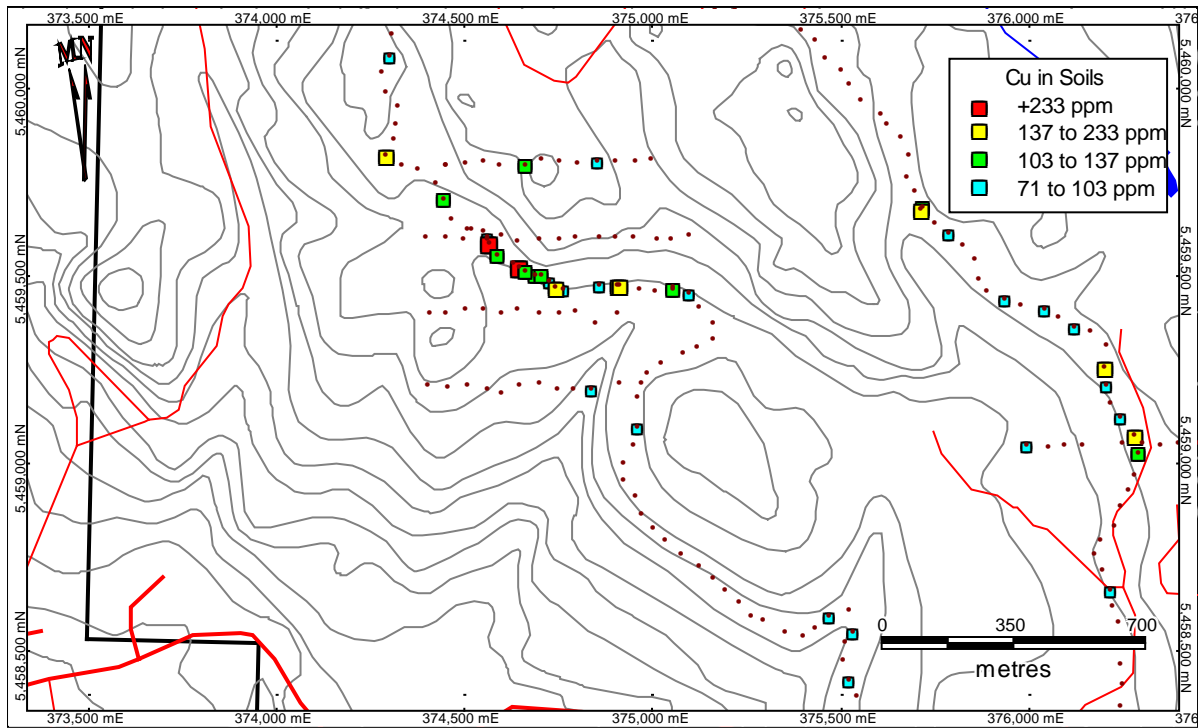


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Figure 10. Lacey Block Central Copper Zone Gold in Soil

A second area was identified near the southern portion of the claim block during the Phase I program, where a zone of continuous anomalous copper in soil was located. A small grid of four 600 metre east west lines spaced at 200 metre intervals was completed. (Figures 10 and 11). This area is underlain by Sicker Group Nitinat Formation calc alkaline volcanics. The gold in soil shows considerable scatter (Figure 10). The mini grid did not expand or enhance the copper anomaly (Figure 11).

The March 2013 road soil sampling program also passed through the grid area, which is shown on Figures 10 and 11. The gold and copper from the road soils did not enhance the existing anomalies any further.



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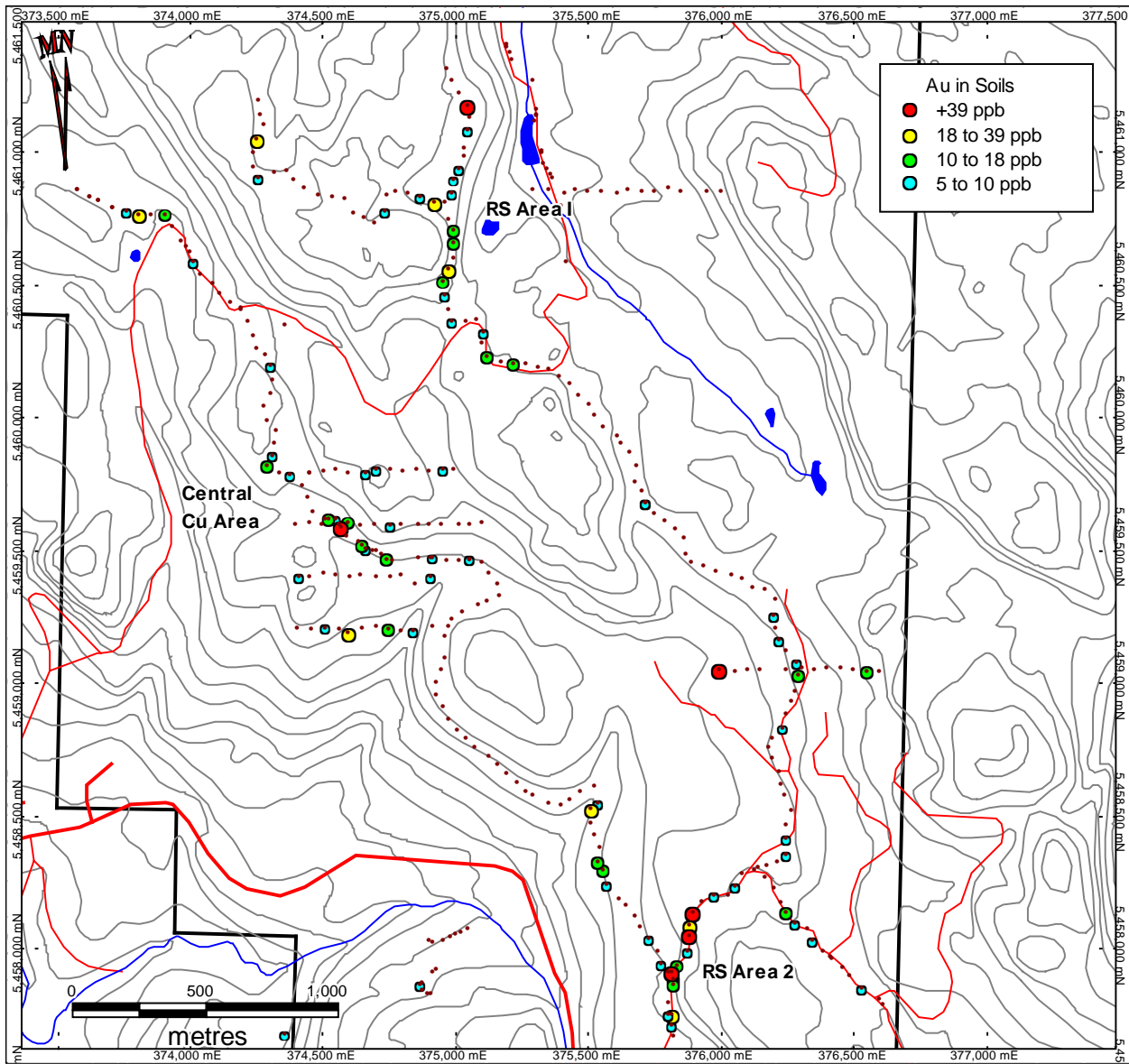
Figure 11. Lacey Block Central Copper Zone Copper in Soil

Based on the success of the limited road soil sampling during the Phase I program, the main access roads on the southern portion of the claim block were sampled at 50 metre intervals, resulting in the collection of 218 samples.

Table 3. Lacey RS Area 1 Au Cu Area Soil Values

| Sample | ppm Cu | ppb Au | Sample | ppm Cu | ppb Au | Sample | ppm Cu | ppb Au |
|---------|--------|--------|---------|--------|--------|---------|--------|--------|
| 13LS003 | 91.6 | 7 | 13LS009 | 64.8 | 4 | 13LS016 | 97.9 | 5.8 |
| 13LS004 | 128.4 | 11.9 | 13LS010 | 62 | 3.9 | 13LS017 | 65.8 | 4.6 |
| 13LS005 | 199.1 | 36.7 | 13LS011 | 73.2 | 9.7 | 13LS018 | 490.8 | 39.9 |
| 13LS006 | 76 | 3.7 | 13LS012 | 98.3 | 8.8 | 13LS019 | 153 | 3.2 |
| 13LS007 | 94.9 | 11.2 | 13LS013 | 97.4 | 7.4 | 13LS020 | 74.4 | 2.8 |
| 13LS008 | 132.6 | 16.6 | 13LS014 | 43.7 | 3.5 | 13LS021 | 85.8 | 2.1 |
| | | | 13LS015 | 52.8 | 1.9 | | | |

Two areas were identified from the sampling (Figures 12 and 13). RS Area I lies at the northern end of the extent of the sampling and is coincident in gold and copper. This area is underlain by andesitic to basaltic volcanics of the Duck Lake Formation. Local zones of quartz carbonate stockwork, up to 2% of the rock by volume was noted. A 950 metre semi-continuous zone of anomalous copper and gold values was located as shown in Table 3, where the sampling runs from south to north. Thirteen of the 17 samples taken were above the 75th percentile for property wide copper and ten of the 17 were above the 75th percentile for property wide gold.



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Figure 12. Lacey Block Road Sampling Gold in Soil

RS Area II lies in the southern portion of the claim block and is coincident in copper and gold. RS Area II is underlain by andesites of the Nitinat Formation. A 450 metre semi-continuous zone of anomalous copper and gold in soil was located as shown in Table 4, with the samples running from north to south. Eleven of the 12 samples were above the 75th percentile for both property wide copper and property wide gold.

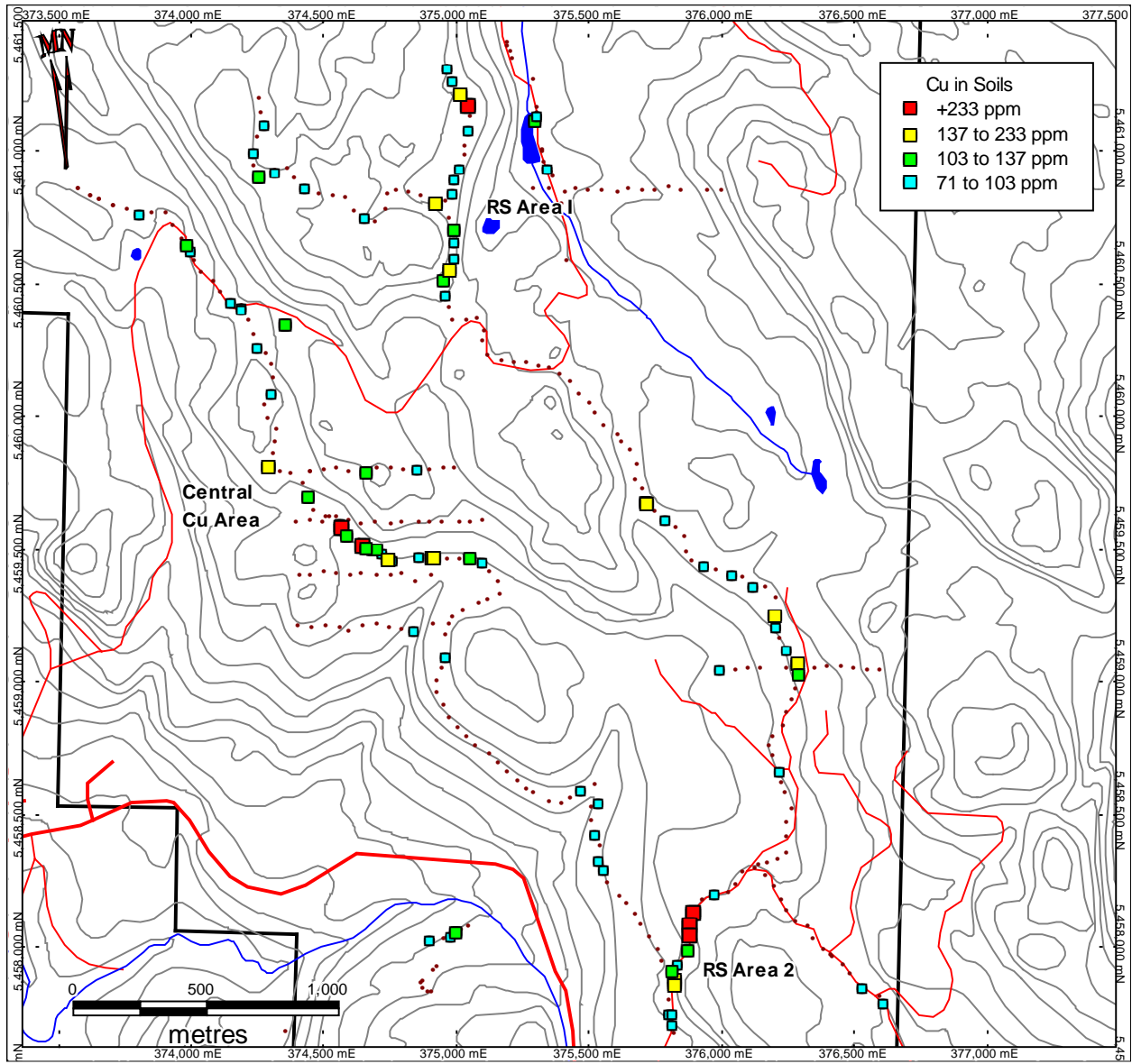
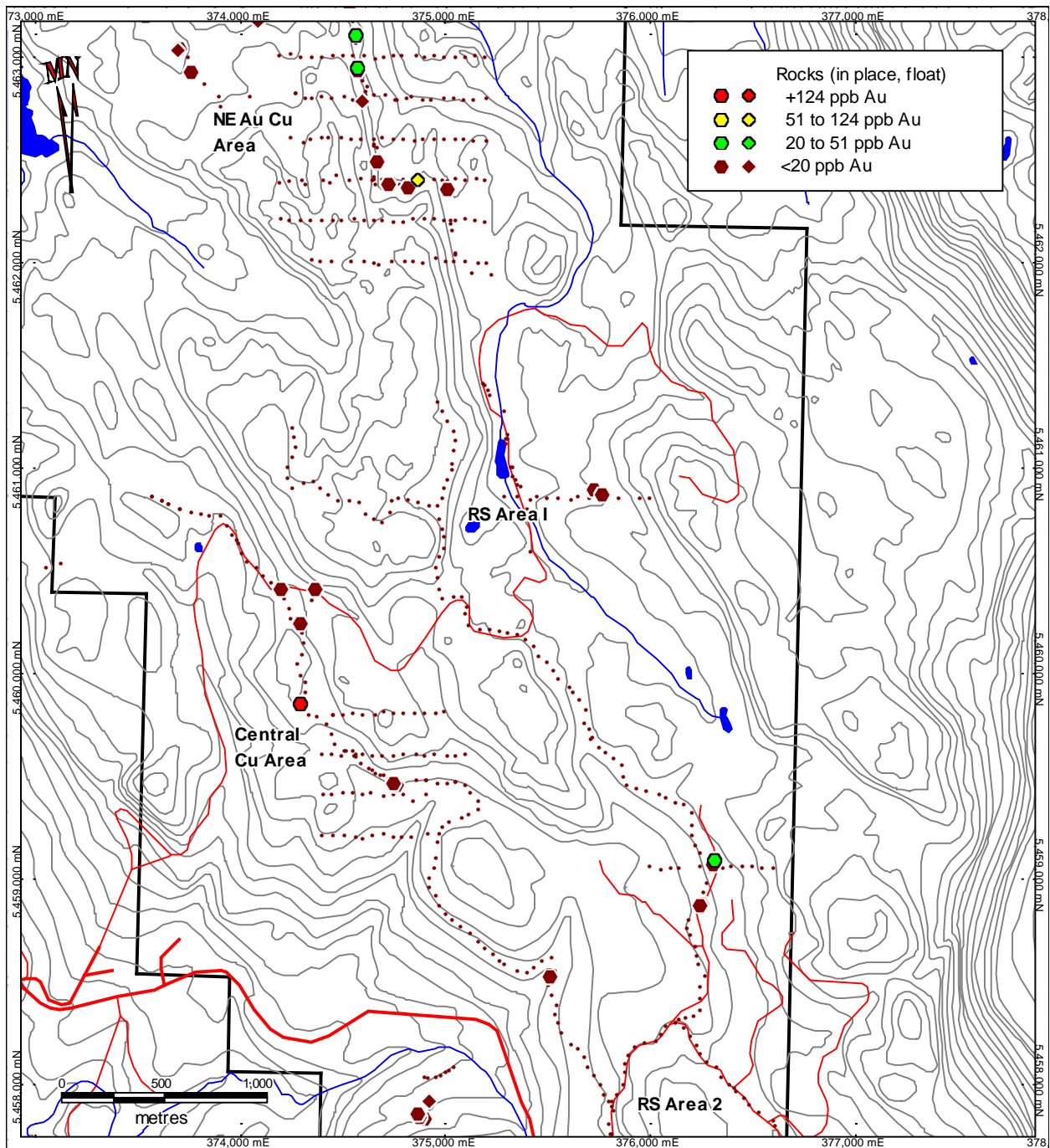


Figure 13. Lacey Block Road Sampling Copper in Soil

Table 4. Lacey RS Area II Au Cu Area Soil Values

| Sample | ppm Cu | ppb Au | Sample | ppm Cu | ppb Au | Sample | ppm Cu | ppb Au |
|---------|--------|--------|-----------|--------|--------|-----------|--------|--------|
| 13LS124 | 235.1 | 55.2 | 13LS128 | 93.5 | 10.4 | 13LS131 | 47.5 | 3.7 |
| 13LS125 | 301.2 | 30.9 | 13LS129 | 119.3 | 64.2 | 13LS132 | 74.6 | 20.2 |
| 13LS126 | 421.8 | 44.9 | L12EBS116 | 172.2 | 16 | L12EBS115 | 91.9 | 7.7 |
| 13LS127 | 116.3 | 9.5 | 13LS130 | 172.6 | 12.1 | 13LS133 | 99.8 | 8.3 |

Thirteen rock samples were taken during the Phase II program. They are shown in Table 5 and are shown with the earlier Phase I sampling on Figures 14 and 15. Sample 2107990 lies in the NE Au Cu area and is a bleached, strongly to intensely oxidized schist displaying foliation at 330/60 showing local azurite. Sample 2107994 lies in RS Area I and is a quartz veinlet showing local traces of malachite and pyrite. Sample 2107995 lies north of RS Area II and consists of a fault zone in altered andesite with light green grey breccia clasts in blue grey matrix trending 160/85. It is moderately oxidized and carries traces of pyrite throughout the rock and also pods of massive pyrite that is locally up to 30% of the rock.



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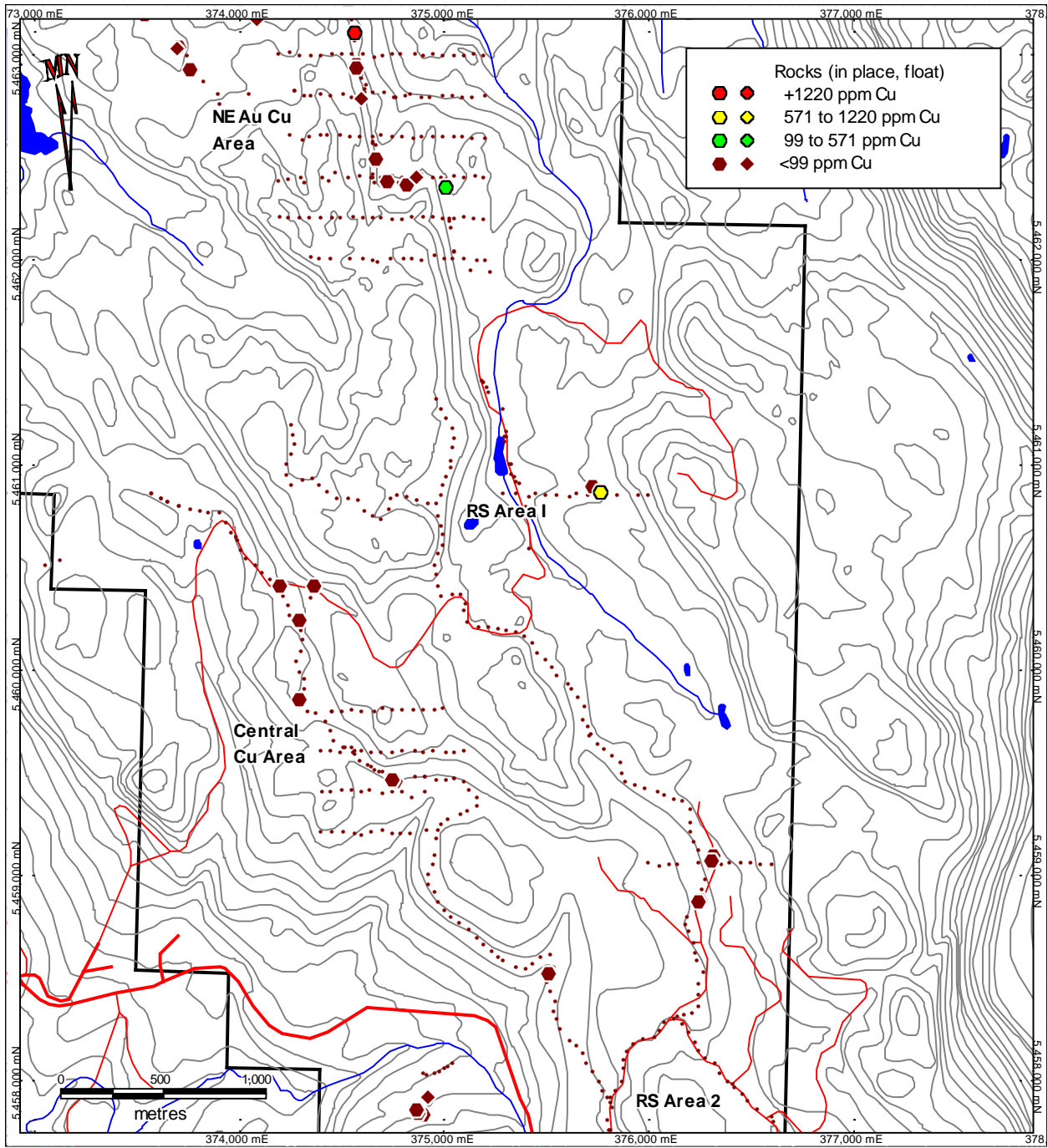
Figure 14. Lacey Rock Samples Gold

Table 5. Lacey Phase II Rock Samples

| Sample | Description | Type | ppm Cu | ppm Pb | ppm Zn | ppb Au |
|---------|--|------|--------|--------|--------|--------|
| 2107988 | oxidized schist | grab | 19 | 3 | 24 | 2.6 |
| 2107989 | sediments with quartz veinlet | grab | 96 | 82 | 163 | 5.5 |
| 2107990 | oxidized schist with trace azurite | grab | 443 | 3 | 152 | 0.7 |
| 2107991 | bleached volcanic with disseminated pyrite | grab | 8 | 2 | 13 | 2.9 |
| 2107992 | oxidized quartz veinlet | grab | 82 | 5 | 59 | 5 |
| 2107993 | oxidized fault gouge | grab | 28 | 4 | 95 | 9.5 |
| 2107994 | quartz vein with malachite | grab | 1249 | 2 | 75 | 1.8 |
| 2107995 | 30% pyrite in bleached volcanic breccia | grab | 40 | 17 | 300 | 36.5 |
| 2107996 | 3% layered pyrite in bleached volcanic | grab | 71 | 5 | 107 | 16.9 |
| 2107997 | oxidized fault | grab | 39 | 5 | 55 | 2.2 |
| 2107998 | oxidized fault | grab | 41 | 6 | 46 | <0.5 |
| 2107999 | oxidized vuggy quartz rubble | grab | 67 | 6 | 62 | 1.4 |
| 2108000 | altered andesite | grab | 45 | 2 | 62 | 5.1 |

Plate 1. Brecciated Fault Zone with Pyrite (Sample 2107995)





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Figure 15. Lacey Rock Samples Copper

Limestone Block

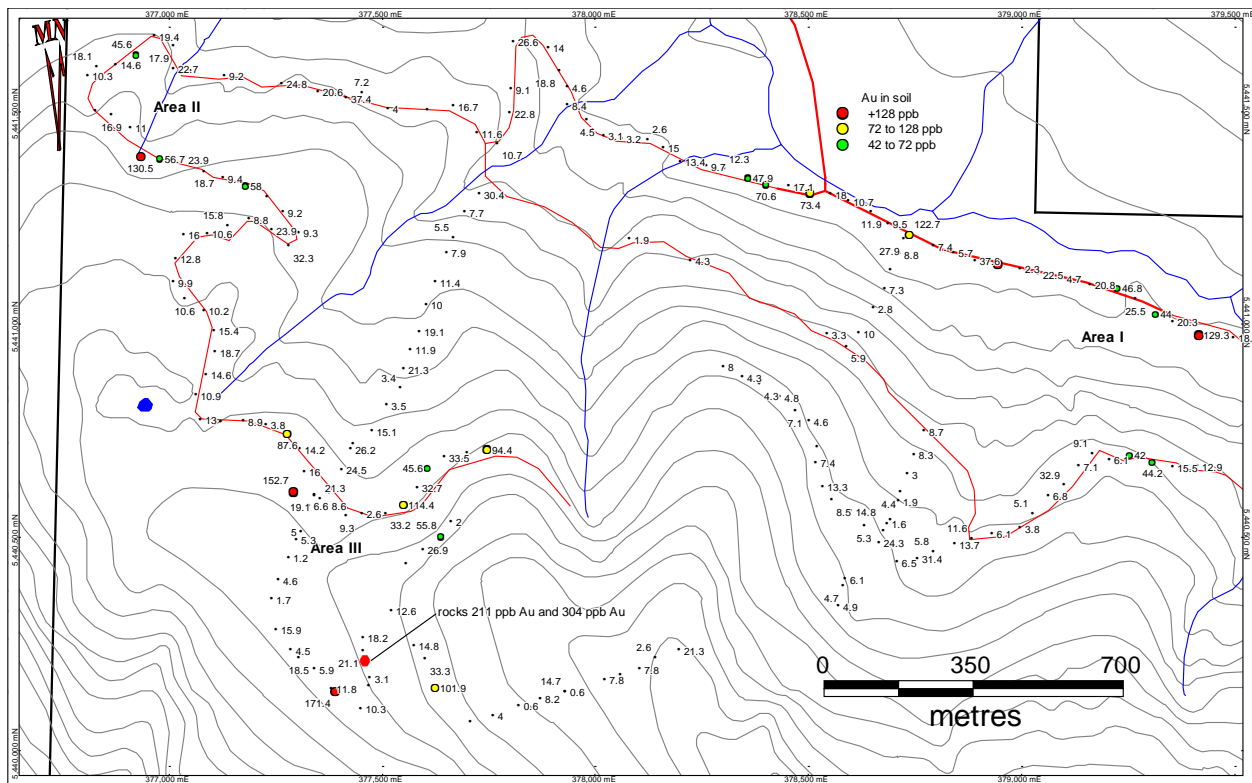
Phase II exploration on the Limestone block consisted of expansion of the road soil sampling program from Phase I program and four reconnaissance cross country soil lines with the exploration confined to readily accessible northern half of the property. The geochemistry statistics for gold and copper are shown in Table 6.

A further 196 soil samples were taken during Phase II in addition to the 15 taken during the Phase I program. Three areas of continuous to semi-continuous gold-in-soil values were identified as shown on Figure 16.

Table 6. Limestone Geochemistry Statistics

| Percentile | 75th | 90th | 95th | 98th | Maximum | Count |
|------------|------|------|------|------|---------|-------|
| ppb Au | 20 | 42 | 72 | 128 | 173 | 211 |
| ppm Cu | 191 | 256 | 299 | 366 | 684 | 211 |

Area I lies in the central eastern section of the claim block. Two short zones of anomalous values were located: two contiguous values of 42 and 44 ppb Au on the upper road and a series of five contiguous values of 47, 26, 44, 20 and 129 ppb Au on the lower road. This suggests the possible presence of a north trending anomalous zone. In addition a value of 173 ppb Au was obtained further to the west along the lower road.

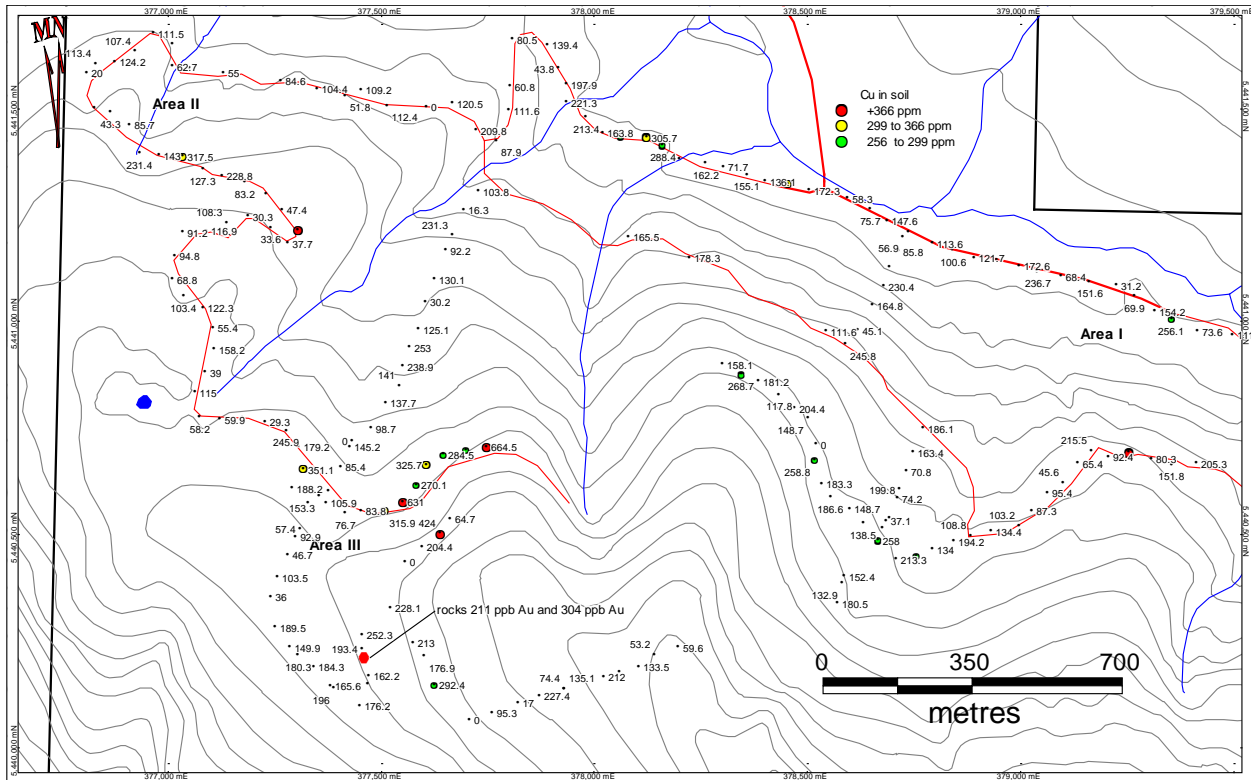


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Figure 16. Limestone Au Soil Samples

Area II lies in the northwest corner of the claim group and consists of soil of two areas of anomalous values on the two legs of a switchback road, again suggesting a possible north trending anomalous zone. A value of 46 ppb Au was obtained on the lower leg and values of 130 and 57 ppb Au were obtained on the upper leg.

Area III lies on the southwestern section of the claim group and consists of several cluster of gold values in an area where Phase I rock sampling obtained values of 211 and 304 ppb Au. Scattered gold values of 46, 55, 102, 114, 153 and 171 ppb Au were obtained over an area 200 metres by 500 metres.



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Figure 17. Limestone Cu Soil Samples

Area I and Area II are not anomalous in copper. There is one part of Area III that is also anomalous in copper to the tune of seven contiguous samples, with values of 316, 631, 270, 326, 285, 280 and 665 ppm Cu.

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 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 / 2013 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-HNO₃-H₂O 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-HNO₃-H₂O 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 13 standards were employed at regular intervals throughout the sample stream. The CDN standards performed relatively well for gold with only 3 of the 6 analyses within the range for Standard CDN-GS-7PE, and 4 of 5 analyses within the range for Standard CDN-ME-1101 as shown in Table 7. The copper analyses for CDN-ME-1101 performed poorly with only 1 of the 5 copper values reporting within the range. This is very likely a function of a fluxing issues reflecting the differences between the soil matrix and the standard matrix and does not place the soil and rock analyses in question from the surveys.

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 |
| LCYSTD-11 | 576 | >100000 | LCYSTD-12 | 592 | 38 |
| LCYSTD 13 | 533 | 7453 | LCYSTD 14 | 779 | 46 |
| LCYSTD 15 | 641 | 7599 | LCYSTD 16 | 620 | 43 |
| LCYSTD 17 | 556 | 6905 | LCYSTD 19 | 750 | 37 |
| LCYSTD-20 | 609 | 7817 | 13LS051 | 733 | 43 |
| | | | 13LS203 | 585 | 48 |

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. The author undertook the final sampling program in March 2013. 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 follow up Phase II exploration program continued to meet with success. There are a number of areas on both the Lacey Block and Limestone Block that warrant further exploration.

The following areas on the Lacey block host anomalous gold-in-soil and/or copper-in-soil and need to be followed up: the NE Au Cu area, Central Cu area, (road sampling) RS Area I and RS Area II. In addition, the semi-massive pyrite in the brecciated fault zone north of RS Area II also needs to be further investigated.

The Lacey NE Au Cu area consists of two sections of anomalous road gold-in-soil and copper in soil over a total length of 1500 metres first identified during the Phase I program. The Phase II follow up mini-grid did not widen or expand the anomaly, though the grid sampling did substantiate the Phase I results. Detailed prospecting of this area is required.

The Lacey Central Cu area consists of a semi-continuous 750 metre section of anomalous copper-in-soil identified in the Phase I program. The Phase II follow up mini grid did not widen or expand the anomaly. Detailed prospecting of this area is required.

Lacey RS Area I consists of a 950 metre semi-continuous zone of anomalous copper and gold values with 13 of the 17 samples taken were above the 75th percentile for property wide copper and 10 of the 17 were above the 75th percentile for property wide gold. Detailed prospecting and mini grid is required to follow up on this area.

Lacey RS Area II consists of a 450 metre semi-continuous zone of anomalous copper and gold with 11 of the 12 samples were above the 75th percentile for both property wide copper and property wide gold. Detailed prospecting and mini grid is required to follow up on this area.

The brecciated fault zone carrying pods of semi-massive pyrite north of Lacey RS Area II also needs to be investigated. The Phase II road soil sampling area passed through the area and located spot gold-in-soil anomalies in the general area of the this showing and the similar showing located 200 metres to the south during the Phase I program. A close spaced mini grid is required for this area, along with detailed prospecting.

The success of systematic road soil sampling in the southern sections of the Lacey block argues strongly for systematic road soil sampling over the remainder of the property.

The following areas on the Limestone block host anomalous gold-in-soil and need to be followed up: area I, Area II and Area III. In addition further work needs to be done in the area where the two Phase I rock samples anomalous in gold were taken.

The road soil sampling at Limestone Area I suggests a possible north south trending zone and should be followed up with a mini grid and prospecting.

The road soil sampling at Limestone Area II also suggests a possible north south trending zone and should be followed up with a mini grid and prospecting.

The scatter of anomalous gold values in Limestone Area III requires some geological mapping and detailed prospecting. This includes the area hosting the Phase I anomalous gold rock samples.

RECOMMENDATIONS

Further work is recommended for eight areas within the Lacey property: 6 on the Lacey block and 3 on the Limestone block, resulting in the collection of 200 rock samples and 1575 soil samples as follows:

- Lacey NE Au Cu area - 10 man days of prospecting
- Lacey Central Cu area - 10 man days of prospecting
- Lacey RS area I - 4 man days of prospecting and mini grid of six 1000 metre lines spaced at 100 metre intervals and sampled at 50 metre intervals
- Lacey RS area II - 8 man days of prospecting and mini grid of eleven 50 metre lines spaced at 50 metre intervals and sampled at 25 metre intervals
- Lacey pyrite showing area - 8 man days of prospecting and mini grid of eleven 50 metre lines spaced at 50 metre intervals and sampled at 25 metre intervals
- Lacey road soiling - 18 man days of prospecting and 25 line kilometres of road soil sampling at 50 metre intervals
- Limestone Area I - 8 man days of prospecting and mini grid of eleven 50 metre lines spaced at 50 metre intervals and sampled at 25 metre intervals
- Limestone Area II - 8 man days of prospecting and mini grid of eleven 50 metre lines spaced at 50 metre intervals and sampled at 25 metre intervals
- Limestone Area III - 10 man days of prospecting

The cost is estimated at \$205,000 as detailed in Table 8.

Table 8. 2013 Phase III Budget

| | | | | | | |
|---------------|------|---------|---|-------|---------|------------------|
| Geologist | 42 | days | @ | \$750 | /day | \$31,500 |
| Assistant | 42 | days | @ | \$650 | /day | \$27,300 |
| Lead Hand | 27 | days | @ | \$475 | /day | \$12,825 |
| Sampler | 27 | days | @ | \$425 | /day | \$11,475 |
| Vehicle | 69 | days | @ | \$150 | /day | \$10,350 |
| R&B | 138 | days | @ | \$125 | /day | \$17,250 |
| Analysis | 1575 | samples | @ | \$21 | /sample | \$33,075 |
| Analysis | 200 | samples | @ | \$36 | /sample | \$7,200 |
| Analysis | 36 | samples | @ | \$21 | /sample | \$756 |
| Supplies | | | | | | \$2,500 |
| Travel | | | | | | \$7,500 |
| Supervision | | | | | | \$10,000 |
| Documentation | | | | | | \$10,000 |
| Contingency | | | | | | \$23,269 |
| Total | | | | | | \$205,000 |

The cost of the 2012/2013 Phase II Exploration Program was \$81,229.89 with \$61,536.63 allocated to the Lacey block and \$19,685.27 allocated to the Limestone block.

<http://www.empr.gov.bc.ca/mining/Geoscience/MapPlace/Pages/default.aspx>. The British Columbia Ministry of Energy and Mines MapPlace website provided the regional geological map and legend.

Bullis, A.R. (1981). Report Geochemical Survey Joy and Sandy Claims. British Columbia Ministry of Energy and Mines Assessment Report 09986.

Cope, G.R. (1988). 1988 Geological Assessment of Horne 1-4 Claims (Cathedral Property). British Columbia Ministry of Energy and Mines Assessment Report 17474.

Cope, G.R. and Hawkins, T.G. (1987). 1987 Geological Assessment of Horne 1-4 Claims (Cathedral Property). British Columbia Ministry of Energy and Mines Assessment Report 16118.

Getsinger, J.S. (1987). Assessment Report on 1987 Rock Sampling and Soil Sampling on the April Claim. British Columbia Ministry of Energy and Mines Assessment Report 15953.

Hawkins, T.G. (1986). Reconnaissance Geological Mapping, Rock Sampling and Silt Sampling on the Cathedral Property. British Columbia Ministry of Energy and Mines Assessment Report 14941.

Hayes, E.W. (1990). 1989-1990 Prospecting of the Ho 1 - Ho 4 Mineral Claims. British Columbia Ministry of Energy and Mines Assessment Report 20067.

Henneberry, R.T. (2012). 2012 Phase I Geochemical Report Lacey Project (Lacey and Limestone Blocks). British Columbia Ministry of Energy and Mines Assessment Report (not yet assigned).

Laanela, H. (1987). Assessment Report On The Geological, Geochemical and Geophysical Surveys on Lacy and Stokes Claim Groups. British Columbia Ministry of Energy and Mines Assessment Report 16138.

Lefebure, D.V. and Church, B. N. (1996): Polymetallic Veins Ag-Pb-Zn+/-Au, in Selected British Columbia Mineral Deposit Profiles, Volume 2 - Metallic Deposits, Lefebure, D.V. and Høy, T, Editors, British Columbia Ministry of Energy of Employment and Investment, Open File 1996-13, pages 67-70.

Massey, N.W.D. and Friday, S.J. (1988). Geology of the Alberni - Nanaimo Lakes Area, Vancouver Island. (092F/1W, 092F/2E and part of 092F/7). British Columbia Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork, 1988. Pp. 61-74.

McLelland, D.J. (2005). Assessment Report for Tenure 516540. British Columbia Ministry of Energy and Mines Assessment Report 28290.

Neale, T. and Hawkins, T.G. (1984). Report on Geochemical Sampling April Claim. British Columbia Ministry of Energy and Mines Assessment Report 12696.

Neale, T. and Hawkins, T.G. (1986). Assessment Report on Reconnaissance Geological Mapping, Rock Sampling and Soil Sampling on the April Claim. British Columbia Ministry of Energy and Mines Assessment Report 15288.

Pezzot, E.T. and White, G.E. (1981) Geophysical Report on an Airborne VLF-Electro Magnetometer and Magnetometer Survey on the Crow, Levi, Sue, Mar, Jan, Rand, Remy claims. British Columbia Ministry of Energy and Mines Assessment Report 09126.

Saulnier, P. (2002). Physical Work Report on the HV Mineral Claim. British Columbia Ministry of Energy and Mines Assessment Report 26919.

Saulnier, P. (2007). Physical Work Report on the HV Mineral Claim. British Columbia Ministry of Energy and Mines Assessment Report 29053.

Saulnier, P. (2011). Physical Report for Statement of Work Claims 700664, 700827, 701146, 705562, 705563, 705712, 700683. British Columbia Ministry of Energy and Mines Assessment Report 32090.

Saulnier, P. (2011b). Report on Prospecting and Geochemical Survey Lime Claims. British Columbia Ministry of Energy and Mines Assessment Report 32685.

Wilson, R. and Bradish, L. (1985). Report on Geophysics and Geochemistry on the Oets Group. British Columbia Ministry of Energy and Mines Assessment Report 13743.

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 an independent consulting geologist and 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:

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

I am responsible for the preparation of the technical report titled "2012/2013 Phase II Geochemical Report Lacey Project" and dated April 27, 2013 relating to the Lacey property. I visited the Lacey Property from March 17 to March 22, 2013, conducting the final portion of the Phase II exploration program.

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

As of April 30, 2013, 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 1.5 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 April 27, 2013.

"signed and sealed"

R.Tim Henneberry, P.Geo



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 | \$81,221.89 |
| Geochemical Sampling | | |

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

NOTICE OF WORK NUMBER(S) / DATE(S) _____ YEAR OF WORK 2012/2013

STATEMENT OF WORK – CASH PAYMENT EVENT NUMBERS / DATE(S) 5445407-5445411

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 841086,841088,841089,841096,841914,897997,937852

COMMODITIES SOUGHT gold

MINERAL INVENTORY MINFILE NUMBERS, IF KNOWN _____

MINING DIVISION Alberni

NTS: 092F/02,07 TRIM 092F027, 036,037; 092F007,017

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

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 | 463 | 700664,700827,705562,705563,843547,947077,947340,949912,974189,974271,995912,1014114,841086,841088,841096,841099,841914,897997,937852 | |
| Soil Limestone Block | 190 | | |
| Silt | | | |
| Rock Lacey Block | 13 | 700664,700827,705562,705563, 947340,974189, 995912 | |

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 **\$81.221.89**

LACEY PROPERTY 2012/2013 PHASE II STATEMENT OF COSTS

| | Dates Worked | Lacey | Limestone |
|-----------------|-------------------------------|-------------------------|-------------|
| Leah Henneberry | Aug 31; Sep 1,2,3,4,5,6,7,8 | Aug 31; Sep 1,2,3,4,5 | Sep 6,7,8 |
| Mike Pym | Aug 31; Sep 1,2,3,4,5,6,7,8 | Aug 31; Sep 1,2,3,4,5 | Sep 6,7,8 |
| John Taylor | Aug 31; Sep 1,2,3,4,5,6,7,8,9 | Aug 31; Sep 1,2,3,4,5,9 | Sep 6,7,8,9 |
| Riley Pym | Aug 31; Sep 1,2,3,4,5,6,7,8 | Aug 31; Sep 1,2,3,4,5 | Sep 6,7,8 |
| Adam Pym | Aug 31; Sep 1,2,3,4,5,6,7,8 | Aug 31; Sep 1,2,3,4,5 | Sep 6,7,8 |
| Mamie Sentoso | Aug 31; Sep 1,2,3,4,5,6,7,8 | Aug 31; Sep 1,2,3,4,5 | Sep 6,7,8 |

| | | | | | | | Lacey | Limestone |
|----------------------------|----------|---|-------------|-------------|--|--|--------------------|--------------------|
| Field Crew | | | | | | | | |
| Leah Henneberry | 9 days | @ | \$400 /day | \$ 3,600.00 | | | \$2,400.00 | \$1,200.00 |
| Mike Pym | 9 days | @ | \$450 /day | \$ 4,050.00 | | | \$2,700.00 | \$1,350.00 |
| John Taylor | 10 days | @ | \$450 /day | \$ 4,500.00 | | | \$2,925.00 | \$1,575.00 |
| Riley Pym | 9 days | @ | \$400 /day | \$ 3,600.00 | | | \$2,400.00 | \$1,200.00 |
| Adam Pym | 9 days | @ | \$400 /day | \$ 3,600.00 | | | \$2,400.00 | \$1,200.00 |
| Mamie Sentoso | 9 days | @ | \$300 /day | \$ 2,700.00 | | | \$1,800.00 | \$900.00 |
| Vehicle Rentals | | | | | | | | |
| Mike Pym | 9 days | @ | \$75 /day | \$ 675.00 | | | \$450.00 | \$225.00 |
| Mike Pym | 3 days | @ | \$60 /day | \$ 180.00 | | | | \$180.00 |
| Supervision | | | | | | | | |
| Tim Henneberry | 10 hours | @ | \$125 /hour | \$1,250.00 | | | \$625.00 | \$625.00 |
| Documentation | | | | | | | | |
| Tim Henneberry | 15 hours | @ | \$125 /hour | \$1,875.00 | | | \$1,250.00 | \$625.00 |
| Expenses | | | | | | | | |
| Supplies | | | | \$59.91 | | | \$27.97 | \$31.94 |
| Lodging | | | | \$3,600.00 | | | \$2,400.00 | \$1,200.00 |
| Meals | | | | \$1,848.80 | | | \$1,632.59 | \$216.21 |
| Fuel | | | | \$779.97 | | | \$477.60 | \$302.37 |
| Travel | | | | \$353.30 | | | \$176.65 | \$176.65 |
| Service 10% | | | | \$664.20 | | | \$471.48 | \$192.72 |
| Analysis | | | | | | | | |
| Acme Analytical | | | | | | | \$8,937.39 | |
| Pre-HST Invoice | | | | | | | | |
| VAN12004382 - VANI146261 | | | | \$883.35 | | | \$883.35 | |
| VAN12004383 - VANI146391 | | | | \$4,291.74 | | | \$2,468.95 | \$1,822.79 |
| VAN12004384 - VANI147823 | | | | \$24.94 | | | \$24.94 | |
| VAN12004385 - VANI146143 | | | | \$2,924.87 | | | \$961.87 | \$1,963.00 |
| Service (10%) | | | | \$812.49 | | | \$433.91 | \$378.58 |
| HST (GST Number 133959049) | | | | | | | | |
| Services | | | | \$3,123.60 | | | \$2,034.00 | \$1,089.60 |
| Expenses | | | | \$876.74 | | | \$622.35 | \$254.39 |
| Analysis | | | | \$1,072.49 | | | \$572.76 | \$499.72 |
| Total Filed | | | | | | | \$47,346.40 | \$30,138.43 |
| | | | | | | | | \$17,207.97 |

Kelly Wynne
John Taylor

Dates Worked
Nov 23,24,25,26,27,28
Nov 23,24,25,26,27,28

Lacey
Nov 23,24,25,26,27,28
Nov 23,24,25,26,27,28

Limestone

| | | | | | | | | Lacey | Limestone |
|----------------------------|--------------------------|---------|---|-------------|------------|-------------|----------|-------------|-----------|
| Field Crew | | | | | | | | | |
| | Kelly Wynne | 6 days | @ | \$550 /day | | \$3,300.00 | | \$3,300.00 | |
| | John Taylor | 6 days | @ | \$450 /day | | \$2,700.00 | | \$2,700.00 | |
| Vehicle Rentals | | | | | | | | | |
| | Mammoth | 6 days | @ | \$100 /day | | \$600.00 | | \$600.00 | |
| Supervision | | | | | | | | | |
| | Tim Henneberry | hours | @ | \$125 /hour | | \$0.00 | | \$0.00 | |
| Documentation | | | | | | | | | |
| | Kelly Wynne | 4 hours | @ | \$75 /hour | | \$300.00 | | \$300.00 | |
| | Tim Henneberry | hours | @ | \$125 /hour | | \$0.00 | | \$0.00 | |
| Expenses | | | | | | | | | |
| | Supplies | | | | | | | | |
| | Lodging | | | | \$1,101.50 | | | \$1,101.50 | |
| | Meals | | | | \$440.36 | | | \$440.36 | |
| | Fuel | | | | \$77.79 | | | \$77.79 | |
| | Travel | | | | \$161.40 | | | \$161.40 | |
| | Service 10% | | | | \$178.11 | | | \$178.11 | |
| Analysis | | | | | | | | | |
| | Acme Analytical | | | | | | \$911.90 | | |
| | Pre-HST Invoice | | | | | | | | |
| | VAN12005600 - VANI154099 | | | | \$512.46 | | | \$512.46 | |
| | VAN12005602 - VANI154638 | | | | \$316.54 | | | \$316.54 | |
| | Service (10%) | | | | \$82.90 | | | \$82.90 | |
| HST (GST Number 133959049) | | | | | | | | | |
| | Services | | | | \$828.00 | | | \$828.00 | |
| | Expenses | | | | \$235.10 | | | \$235.10 | |
| | Analysis | | | | \$109.43 | | | \$109.43 | |
| Total Filed | | | | | | | | | |
| | | | | | | \$10,943.58 | | \$10,943.58 | \$0.00 |

Tim Henneberry
Gary Wesa

Dates Worked
Mar 17,18,19,20,21,22
Mar 17,18,19,20,21,22

Lacey
Mar 17,18,19,20,21,22
Mar 17,18,19,20,21,22

Limestone
Mar 20
Mar 20

| | | | | | | | | Lacey | Limestone | |
|----------------------------|--------------------------|----------|---|-------------|-------------|--|--|--------------------|--------------------|-------------------|
| Field Crew | | | | | | | | | | |
| | Tim Henneberry | 6 days | @ | \$750 /day | \$ 4,500.00 | | | \$4,125.00 | \$375.00 | |
| | Gary Wesa | 6 days | @ | \$650 /day | \$ 3,900.00 | | | \$3,575.00 | \$325.00 | |
| Vehicle Rentals | | | | | | | | | | |
| | Mammoth | 6 days | @ | \$100 /day | \$600.00 | | | \$550.00 | \$50.00 | |
| Supervision | | | | | | | | | | |
| | Tim Henneberry | 10 hours | @ | \$125 /hour | \$1,250.00 | | | \$1,000.00 | \$250.00 | |
| Documentation | | | | | | | | | | |
| | Gary Wesa | 4 hours | @ | \$100 /hour | \$400.00 | | | \$400.00 | | |
| | Tim Henneberry | 40 hours | @ | \$125 /hour | \$5,000.00 | | | \$3,750.00 | \$1,250.00 | |
| Expenses | | | | | | | | | | |
| | Supplies | | | | | | | | | |
| | Lodging | | | | \$600.00 | | | \$550.00 | \$50.00 | |
| | Meals | | | | \$597.17 | | | \$537.84 | \$59.34 | |
| | Fuel | | | | \$75.31 | | | \$75.31 | | |
| | Travel | | | | \$93.78 | | | \$93.78 | | |
| | Service 10% | | | | \$136.63 | | | \$136.63 | | |
| Analysis | | | | | | | | | | |
| | Acme Analytical | | | | | | | | | |
| | VAN13000972 - VAN1163492 | | | | \$4,260.94 | | | \$4,260.94 | | |
| | Service (10%) | | | | \$426.09 | | | \$426.09 | | |
| GST (GST Number 133959049) | | | | | | | | | | |
| | Services | | | | \$782.50 | | | \$670.00 | \$112.50 | |
| | Expenses | | | | \$75.14 | | | \$69.68 | \$5.47 | |
| | Analysis | | | | \$234.35 | | | \$234.35 | | |
| Total Filed | | | | | | | | \$22,931.92 | \$20,454.61 | \$2,477.30 |

\$81,221.89

\$61,536.63

\$19,685.27

Lacey Phase II Rock Samples

| Project | Sample | 83Z10E | 83Z10N | Altitude | Description | ppb Au | ppm Cu | ppm Pb | ppm Zn |
|---------|---------|--------|---------|----------|---|--------|--------|--------|--------|
| Lacey | 2107988 | 375517 | 5458525 | 354 | strong schist with 150/75 FO, locally strong pervasive OX on thin irregular faults. | 2.6 | 19 | 2.7 | 24 |
| Lacey | 2107989 | 375730 | 5460898 | 483 | sediments with red black layers in quartz vein trending 325/85. Vol within ~ 1m. | 5.5 | 96.3 | 81.6 | 163 |
| Lacey | 2107990 | 375012 | 5462364 | 446 | bleached, FO at 330/60, strong to intense OX schist with azurite locally. | 0.7 | 442.9 | 2.5 | 152 |
| Lacey | 2107991 | 376243 | 5458869 | 446 | bleached vol, moderate pervasive OX. Mg disseminated py and ox vugs up to 4% of rock. Faults at 280/50 with going 10 cm thick common. | 2.9 | 7.9 | 1.5 | 13 |
| Lacey | 2107992 | 374825 | 5462370 | 476 | intense OX along fault 225/40. 10 cm quartz vein irregular, subvertical. | 5 | 82.2 | 5.4 | 59 |
| Lacey | 2107993 | 374576 | 5462941 | 447 | sample of intensely OX gouge where two faults meet. | 9.5 | 27.7 | 3.7 | 95 |
| Lacey | 2107994 | 375767 | 5460871 | 479 | trace malachite and py locally, near FO following quartz vein. | 1.8 | 1249 | 2.3 | 75 |
| Lacey | 2107995 | 376313 | 5459093 | 473 | light green grey breccia clasts in blue grey matrix, with 160/85 fault with up to 30% py. Trace py throughout rock. Moderate OX. | 36.5 | 39.5 | 17.2 | 300 |
| Lacey | 2107996 | 376305 | 5459071 | 474 | 3% mg fo fg euhedral py in 10-20 cm layers with 150-180 degree strike in light green grey vol, weakly silicified. FO strongest near py rich layers; thin fault set. | 16.9 | 70.7 | 4.5 | 107 |
| Lacey | 2107997 | 374764 | 5459456 | 424 | intense OX, bright orange schistose rubble, likely fault zone. | 2.2 | 38.8 | 5 | 55 |
| Lacey | 2107998 | 374748 | 5459469 | 425 | intense pervasive OX with dark brown moderate alt (sid?). Likely fault, 30 cm, with schistose white rock and quartz breccia | <0.5 | 40.9 | 5.7 | 46 |
| Lacey | 2107999 | 374297 | 5460245 | 463 | light grey with strong ox coating, bright orange. Local purple grey alteration (silicification). Vuggy quartz as rubble at base of OC. Trace py on FX near vein rims. Light purple crystals near sample, carbonate? | 1.4 | 66.7 | 5.7 | 62 |
| Lacey | 2108000 | 374365 | 5460410 | 483 | vfg light green grey with moderate oxide. Siderite in brown elongate vugs (weathered Ca vein). Locally intensely bleached with metallic OX sheen on some FX. Siderite vein at 320/45. | 5.1 | 44.9 | 1.7 | 62 |

| Project | Sample No | 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 | ppm V | % Ca |
|---------|--------------|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| Lacey | LL 12 AP-01 | 375204 | 5462794 | 362 | 0.7 | 35.8 | 3.7 | 51 | <0.1 | 32.9 | 15.1 | 343 | 4.73 | 4.9 | 0.6 | 0.7 | 11 | <0.1 | 0.6 | <0.1 | 175 | 0.31 |
| Lacey | LL 12 AP-02 | 375142 | 5462792 | 375 | 1.6 | 19 | 3.9 | 42 | 0.2 | 34.3 | 11.7 | 277 | 4.18 | 3.7 | 1.2 | 0.4 | 14 | <0.1 | 0.6 | <0.1 | 155 | 0.36 |
| Lacey | LL 12 AP-03 | 375092 | 5462788 | 381 | 1.7 | 83.9 | 3.9 | 48 | 0.1 | 93.3 | 27.5 | 900 | 5.29 | 8.4 | 2.3 | 0.9 | 16 | 0.2 | 3.3 | <0.1 | 162 | 0.77 |
| Lacey | LL 12 AP-04 | 375047 | 5462801 | 382 | 1.4 | 52.2 | 3.7 | 38 | <0.1 | 61.6 | 23.6 | 513 | 4.54 | 5.5 | 1.4 | 0.8 | 11 | <0.1 | 2.3 | <0.1 | 163 | 0.32 |
| Lacey | LL 12 AP-05 | 374993 | 5462797 | 392 | 1.1 | 44 | 3.4 | 48 | <0.1 | 23.1 | 14 | 318 | 4.08 | 2.5 | 2.1 | 0.7 | 9 | 0.1 | 1.4 | <0.1 | 152 | 0.25 |
| Lacey | LH 01 | 374197 | 5463000 | 457 | 0.8 | 29.3 | 7.9 | 78 | 0.1 | 26.9 | 12.3 | 552 | 4.6 | 10.3 | 2.7 | 1.1 | 9 | 0.5 | 1.3 | 0.3 | 144 | 0.24 |
| Lacey | LH 02 | 374250 | 5463013 | 458 | 1.6 | 48.9 | 8.7 | 68 | 0.2 | 40.4 | 34.8 | 5579 | 3.6 | 7.5 | 3.5 | 0.6 | 17 | 0.6 | 1 | 0.2 | 100 | 0.67 |
| Lacey | LH 03 | 374298 | 5462994 | 463 | 0.4 | 35.8 | 5.4 | 43 | 0.1 | 22 | 9.5 | 233 | 3.89 | 8.5 | 1.7 | 0.7 | 8 | <0.1 | 0.8 | 0.3 | 138 | 0.22 |
| Lacey | LH 04 | 374351 | 5462993 | 470 | 0.5 | 37 | 8.4 | 81 | <0.1 | 27.7 | 16.1 | 1049 | 4.57 | 5.8 | 1.5 | 0.9 | 11 | 0.2 | 0.7 | 0.2 | 132 | 0.21 |
| Lacey | LH 05 | 374402 | 5462997 | 487 | 2.5 | 76 | 11.5 | 161 | 0.2 | 84.2 | 90.1 | >10000 | 3.93 | 6.9 | 6.1 | 0.5 | 16 | 0.7 | 0.9 | 0.2 | 118 | 0.54 |
| Lacey | LH 06 | 374457 | 5463001 | 475 | 0.9 | 58.7 | 11.4 | 64 | 0.1 | 22.3 | 13.5 | 965 | 4.8 | 8.9 | 2.1 | 1.4 | 11 | 0.1 | 1.2 | 0.1 | 144 | 0.2 |
| Lacey | LH 07 | 374505 | 5463000 | 476 | 0.3 | 21.6 | 11.5 | 76 | 0.2 | 10 | 52.5 | 6131 | 3.31 | 4.6 | 1 | 0.6 | 18 | 0.2 | 0.6 | 0.1 | 75 | 0.12 |
| Lacey | LH 08 | 374552 | 5463000 | 452 | 1 | 93.5 | 4.9 | 53 | 0.1 | 37.1 | 19.2 | 479 | 4.91 | 17.8 | 5.6 | 1.3 | 12 | <0.1 | 1.9 | <0.1 | 153 | 0.33 |
| Lacey | LH 09 | 374603 | 5463004 | 434 | 0.8 | 48.7 | 6 | 78 | 0.1 | 28.9 | 15.4 | 770 | 4.53 | 9 | 1.7 | 0.9 | 11 | 0.1 | 1.2 | 0.1 | 146 | 0.33 |
| Lacey | LH 10 | 374665 | 5462990 | 422 | 0.3 | 15 | 7.2 | 39 | <0.1 | 6.6 | 6 | 532 | 3.64 | 3.1 | <0.5 | 0.7 | 13 | 0.1 | 0.7 | 0.1 | 114 | 0.18 |
| Lacey | | 374706 | 5462998 | 400 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | | 374750 | 5463000 | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LH 13 | 374792 | 5463001 | 372 | 0.9 | 42.8 | 10 | 71 | 0.1 | 46.8 | 22.1 | 477 | 4.91 | 9.1 | <0.5 | 0.5 | 15 | 0.3 | 3.4 | <0.1 | 119 | 0.35 |
| Lacey | LH 14 | 374860 | 5463007 | 353 | 1.1 | 34.7 | 5.8 | 56 | 0.1 | 24.1 | 11.6 | 337 | 4.69 | 9.3 | <0.5 | 0.5 | 13 | 0.2 | 2 | <0.1 | 152 | 0.29 |
| Lacey | LH 15 | 374900 | 5462997 | 363 | 0.3 | 24.4 | 4.6 | 54 | 0.2 | 14.7 | 8.5 | 472 | 3.33 | 3.3 | 1.4 | 0.7 | 13 | 0.1 | 0.6 | <0.1 | 100 | 0.26 |
| Lacey | LL 12 LH 16 | 374950 | 5463004 | 361 | 0.8 | 38.3 | 4.5 | 67 | <0.1 | 92.2 | 20.3 | 327 | 4.5 | 8.2 | <0.5 | 1.3 | 14 | <0.1 | 3.8 | <0.1 | 174 | 0.11 |
| Lacey | | 374994 | 5462998 | 380 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LL 12 LH 18 | 375053 | 5462998 | 382 | 0.3 | 8.4 | 4.5 | 24 | 0.1 | 9 | 5 | 203 | 2.47 | 1.4 | 3.7 | 0.6 | 19 | <0.1 | 0.4 | <0.1 | 93 | 0.29 |
| Lacey | | 375101 | 5462994 | 388 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | | 375145 | 5463006 | 364 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | | 375197 | 5462998 | 353 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LL 12 AP-06 | 374998 | 5462201 | 445 | 1.8 | 39.3 | 5.1 | 82 | 0.2 | 46.7 | 19 | 307 | 5.17 | 11 | 3.7 | 0.8 | 11 | 0.3 | 0.7 | 0.1 | 163 | 0.46 |
| Lacey | LL 12 AP-07 | 374952 | 5462206 | 455 | 0.6 | 42.6 | 8.1 | 47 | 0.2 | 28.4 | 16.6 | 1671 | 3.9 | 7.3 | 2.2 | 0.5 | 12 | 0.1 | 0.4 | 0.1 | 151 | 0.3 |
| Lacey | LL 12 AP-08 | 374901 | 5462212 | 474 | 1.4 | 48.3 | 6.8 | 68 | 0.2 | 42.9 | 25.4 | 1124 | 3.74 | 12 | 2.7 | 0.6 | 9 | 0.3 | 0.4 | <0.1 | 131 | 0.3 |
| Lacey | LL 12 AP-09 | 374844 | 5462209 | 506 | 0.7 | 18.4 | 6.4 | 31 | <0.1 | 15.2 | 5.6 | 725 | 4.61 | 4.5 | 2.1 | 0.7 | 12 | 0.1 | 0.4 | 0.1 | 177 | 0.21 |
| Lacey | LL 12 AP-10 | 374795 | 5462193 | 513 | 0.2 | 8.1 | 21 | 21 | <0.1 | 14.6 | 4.8 | 2983 | 0.93 | 2.4 | 1 | <0.1 | 6 | 0.2 | 0.2 | 0.1 | 47 | 0.23 |
| Lacey | LL 12 AP-11 | 374750 | 5462197 | | 0.8 | 30.6 | 5.4 | 49 | 0.1 | 19.6 | 11.4 | 488 | 3.66 | 4.7 | 6.9 | 0.6 | 9 | 0.2 | 0.4 | <0.1 | 134 | 0.23 |
| Lacey | LL 12 AP-12 | 374694 | 5462200 | 486 | 1.1 | 56.5 | 5.4 | 50 | 0.1 | 26 | 15 | 330 | 4.1 | 4.7 | 1.5 | 0.8 | 10 | 0.3 | 0.7 | <0.1 | 147 | 0.28 |
| Lacey | LL 12 AP-13 | 374397 | 5459599 | 430 | 0.4 | 27.4 | 4.7 | 64 | 0.2 | 18.2 | 12.9 | 2397 | 2.91 | 2.9 | 0.8 | 0.5 | 10 | 0.1 | 0.3 | <0.1 | 76 | 0.27 |
| Lacey | | 374450 | 5459602 | 425 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LLS 12 AP-15 | 374497 | 5459596 | 430 | 1.2 | 43.7 | 4 | 50 | <0.1 | 24.5 | 14.1 | 605 | 3.79 | 4.1 | 1.9 | 0.8 | 10 | <0.1 | 0.3 | <0.1 | 137 | 0.34 |
| Lacey | LLS 12 AP 16 | 374565 | 5459600 | 448 | 0.7 | 74.8 | 3.1 | 47 | 0.1 | 43.8 | 18 | 697 | 4.88 | 6.9 | 5.3 | 0.9 | 7 | 0.1 | 2 | <0.1 | 150 | 0.27 |
| Lacey | LLS 12 AP 17 | 374598 | 5459606 | 424 | 0.4 | 42.7 | 2.9 | 54 | 0.2 | 94.1 | 25.5 | 829 | 4.83 | 2.4 | 15.8 | 0.4 | 3 | <0.1 | 0.9 | <0.1 | 161 | 0.07 |
| Lacey | LLS 12 AP 18 | 374644 | 5459592 | 427 | 0.4 | 42.6 | 3 | 52 | 0.1 | 44.7 | 15.8 | 590 | 3.82 | 7.1 | 3.4 | 0.7 | 16 | 0.1 | 2 | <0.1 | 117 | 0.53 |
| Lacey | LLS 12 AP 19 | 374698 | 5459596 | 464 | 0.4 | 59.9 | 4.2 | 41 | <0.1 | 61.5 | 21.2 | 1833 | 4.39 | 5.6 | 2.9 | 0.5 | 9 | <0.1 | 2.4 | <0.1 | 165 | 0.23 |
| Lacey | LLS 12 AP 20 | 374753 | 5459594 | 473 | 0.5 | 15.4 | 20 | 16 | <0.1 | 16.4 | 8 | 236 | 2.61 | 3.6 | 7.1 | 0.4 | 9 | <0.1 | 2.6 | <0.1 | 79 | 0.27 |
| Lacey | LLS 12 AP 21 | 374798 | 5459601 | 460 | 0.5 | 37.6 | 3 | 34 | 0.1 | 29.5 | 13.8 | 412 | 3.66 | 5.5 | 1.9 | 1.1 | 13 | <0.1 | 1 | <0.1 | 138 | 0.51 |
| Lacey | LLS 12 AP 22 | 374858 | 5459601 | 479 | 0.2 | 18.4 | 3.9 | 41 | <0.1 | 44.4 | 19 | 1100 | 3.36 | 2.6 | 1 | 0.5 | 26 | <0.1 | 0.5 | <0.1 | 124 | 0.41 |
| Lacey | LLS 12 AP 23 | 374900 | 5459598 | 475 | 0.4 | 42.9 | 5.6 | 42 | <0.1 | 38.3 | 16.9 | 1266 | 3.87 | 4.2 | 2.6 | 0.7 | 13 | 0.1 | 0.5 | <0.1 | 145 | 0.31 |
| Lacey | LLS 12 AP 24 | 374949 | 5459600 | 475 | 0.5 | 45.2 | 5 | 40 | <0.1 | 37.8 | 18.3 | 552 | 3.87 | 59.9 | 2.3 | 0.9 | 12 | <0.1 | 0.7 | <0.1 | 135 | 0.42 |
| Lacey | LLS 12 AP 25 | 375013 | 5459596 | 454 | 0.4 | 25.9 | 3.1 | 44 | <0.1 | 29.5 | 11.6 | 239 | 3.15 | 3.3 | 0.7 | 0.6 | 11 | <0.1 | 0.6 | <0.1 | 101 | 0.26 |
| Lacey | LLS 12 AP 26 | 375051 | 5459595 | 460 | 0.3 | 44.3 | 3.5 | 57 | <0.1 | 29.3 | 17.3 | 707 | 4.02 | 3.4 | 4.8 | 0.5 | 12 | <0.1 | 0.3 | <0.1 | 143 | 0.26 |

| Project | Sample No | 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 | ppm V | % Ca |
|---------|--------------|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| Lacey | LLS 12 AP 27 | 375098 | 5459604 | 463 | 0.4 | 18.5 | 3.3 | 27 | <0.1 | 13.2 | 9.1 | 234 | 3.38 | 3 | 1.1 | 0.4 | 10 | <0.1 | 1.2 | <0.1 | 126 | 0.28 |
| Lacey | RP 01 | 375192 | 5462401 | 442 | 1.3 | 18.4 | 12.9 | 40 | 0.1 | 20.5 | 6.7 | 262 | 5.1 | 2.8 | 5.4 | 0.8 | 27 | <0.1 | 0.7 | <0.1 | 146 | 0.26 |
| Lacey | RP 02 | 375152 | 5462404 | 445 | 0.8 | 51.7 | 5.4 | 51 | 0.1 | 23.5 | 9.9 | 249 | 4.09 | 5.5 | 1.6 | 1.1 | 12 | <0.1 | 0.8 | <0.1 | 127 | 0.21 |
| Lacey | RP 03 | 375101 | 5462399 | 450 | 0.5 | 22.6 | 6.9 | 38 | 0.2 | 11.7 | 5.8 | 216 | 3.32 | 4.5 | 2.9 | 0.9 | 17 | <0.1 | 0.8 | <0.1 | 107 | 0.24 |
| Lacey | RP 04 | 375054 | 5462408 | 439 | 0.4 | 13.7 | 3.9 | 27 | <0.1 | 10.9 | 5.5 | 264 | 3.32 | 2.7 | 17.4 | 0.4 | 11 | <0.1 | 0.6 | <0.1 | 111 | 0.21 |
| Lacey | RP 05 | 375013 | 5462393 | 443 | 1.1 | 53.3 | 4.7 | 67 | 0.1 | 26 | 9.9 | 392 | 4.84 | 8.4 | 3.5 | 0.9 | 10 | 0.1 | 1.3 | <0.1 | 135 | 0.26 |
| Lacey | RP 06 | 374201 | 5463592 | 418 | 0.8 | 42.9 | 5.1 | 46 | <0.1 | 23.2 | 9.1 | 480 | 6.29 | 6.7 | 2.4 | 1 | 8 | <0.1 | 0.7 | 0.1 | 200 | 0.29 |
| Lacey | RP 07 | 374247 | 5463598 | 418 | 0.4 | 20.2 | 10.3 | 97 | <0.1 | 10.7 | 9.7 | 3429 | 2.89 | 2.9 | 8.3 | 0.2 | 21 | 0.1 | 0.4 | 0.1 | 57 | 0.5 |
| Lacey | RP 08 | 374302 | 5463603 | 416 | 0.7 | 38.1 | 7.1 | 106 | 0.1 | 23.2 | 11.5 | 1670 | 4.85 | 12.2 | 4.6 | 0.7 | 10 | 0.2 | 0.9 | <0.1 | 143 | 0.37 |
| Lacey | RP 09 | 374347 | 5463592 | 407 | 0.2 | 4.3 | 8.5 | 17 | <0.1 | 2.5 | 2.2 | 174 | 2.3 | 1.8 | 2 | 0.3 | 5 | <0.1 | 0.5 | 0.1 | 72 | 0.14 |
| Lacey | RP 10 | 374398 | 5463599 | 406 | 1.1 | 65.1 | 4.6 | 64 | <0.1 | 36.3 | 14.9 | 573 | 5.44 | 12.6 | 54.7 | 0.8 | 10 | <0.1 | 5.1 | <0.1 | 156 | 0.31 |
| Lacey | RP 11 | 374444 | 5463596 | 401 | 0.9 | 26.6 | 11.2 | 45 | <0.1 | 17 | 8.3 | 245 | 4.06 | 4.2 | 3.7 | 0.6 | 9 | <0.1 | 0.8 | <0.1 | 156 | 0.19 |
| Lacey | | 374548 | 5463609 | 375 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | | 374596 | 5463595 | 351 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | RP 14 | 374648 | 5463593 | 329 | 1.4 | 52.2 | 7.7 | 74 | <0.1 | 56.8 | 17.3 | 566 | 4.9 | 13.1 | 3.6 | 0.6 | 10 | 0.2 | 1.3 | <0.1 | 125 | 0.34 |
| Lacey | RP 15 | 374691 | 5463588 | 308 | 0.9 | 24.5 | 3.6 | 50 | <0.1 | 24.2 | 9.3 | 347 | 3.84 | 6.5 | 2.2 | 0.5 | 8 | <0.1 | 0.8 | <0.1 | 119 | 0.31 |
| Lacey | RP 16 | 374766 | 5463598 | 277 | 1 | 42.3 | 15 | 71 | <0.1 | 14.6 | 13 | 1286 | 6.17 | 9 | 3.9 | 0.5 | 27 | 0.2 | 0.9 | 0.1 | 202 | 0.5 |
| Lacey | RP 17 | 374814 | 5463598 | 304 | 2.3 | 2.8 | 6.9 | 20 | <0.1 | 5.1 | 3.7 | 603 | 2.57 | 1.4 | 0.8 | 0.4 | 21 | 0.1 | 0.4 | <0.1 | 130 | 0.72 |
| Lacey | RP 18 | 374849 | 5463603 | 285 | 0.6 | 29.6 | 5.8 | 54 | <0.1 | 25.8 | 9.6 | 594 | 3.8 | 4.2 | 8.3 | 0.7 | 16 | 0.1 | 0.8 | <0.1 | 103 | 0.34 |
| Lacey | RP 19 | 374897 | 5463601 | 279 | 0.5 | 8.9 | 4 | 21 | <0.1 | 18.4 | 4.4 | 100 | 3.56 | 1.4 | 3.3 | 0.4 | 26 | <0.1 | 0.7 | <0.1 | 90 | 0.27 |
| Lacey | RP 20 | 374897 | 5463601 | 280 | 0.6 | 13.3 | 5.3 | 34 | <0.1 | 15.1 | 6.8 | 314 | 3.45 | 2.8 | 3.4 | 0.4 | 14 | <0.1 | 1.3 | <0.1 | 112 | 0.31 |
| Lacey | RP 21 | 374951 | 5463607 | 284 | 0.7 | 48 | 4.1 | 64 | <0.1 | 35.8 | 15.1 | 450 | 5.09 | 4.2 | 1.3 | 0.7 | 14 | <0.1 | 0.8 | <0.1 | 136 | 0.3 |
| Lacey | RP 22 | 375049 | 5463606 | 285 | 1.2 | 31.6 | 8.4 | 75 | 0.1 | 37.8 | 20.6 | 1978 | 6.14 | 5.9 | 1.9 | 0.6 | 30 | 0.2 | 0.6 | 0.1 | 161 | 0.41 |
| Lacey | RP 23 | 375098 | 5463602 | 290 | 0.7 | 11.6 | 5.6 | 78 | 0.2 | 18.8 | 10.2 | 639 | 3.5 | 3.4 | 1 | 0.4 | 15 | 0.4 | 0.4 | <0.1 | 107 | 0.3 |
| Lacey | RP 24 | 375195 | 5463603 | 291 | 0.3 | 16.2 | 4.6 | 44 | <0.1 | 26.1 | 11.1 | 721 | 3.5 | 2.1 | 1.3 | 0.6 | 16 | <0.1 | 1.5 | <0.1 | 128 | 0.22 |
| Lacey | RP 25 | 375200 | 5463601 | 291 | 0.3 | 15.6 | 5.9 | 36 | 0.1 | 13 | 7.2 | 710 | 2.44 | 1.9 | 1.7 | 0.5 | 15 | <0.1 | 0.5 | <0.1 | 65 | 0.3 |
| Lacey | RP 27 | 374436 | 5462610 | 528 | 0.6 | 13.3 | 7.9 | 33 | <0.1 | 7.7 | 4.9 | 527 | 5.34 | 3.5 | 1.2 | 0.7 | 21 | <0.1 | 1.1 | 0.1 | 166 | 0.28 |
| Lacey | RP 28 | 374499 | 5462603 | 519 | 0.8 | 42 | 6.1 | 62 | <0.1 | 21 | 10.6 | 325 | 4.89 | 5.9 | 1.3 | 0.9 | 13 | <0.1 | 1 | 0.1 | 141 | 0.24 |
| Lacey | RP 29 | 374546 | 5462602 | 511 | 0.7 | 19.3 | 10.2 | 43 | <0.1 | 11.3 | 4.9 | 237 | 4.91 | 4.7 | 2.5 | 0.7 | 12 | 0.1 | 0.7 | 0.2 | 149 | 0.23 |
| Lacey | RP 30 | 374593 | 5462599 | 489 | 0.5 | 28.2 | 8.3 | 52 | <0.1 | 26.8 | 19.8 | 854 | 5.34 | 2.9 | 6 | 0.7 | 24 | 0.1 | 0.6 | <0.1 | 178 | 0.49 |
| Lacey | RP 31 | 374651 | 5462601 | 465 | 0.5 | 11.9 | 8.7 | 23 | 0.1 | 10.9 | 3.8 | 135 | 2.1 | 7.7 | 1 | 0.4 | 20 | 0.2 | 0.4 | <0.1 | 71 | 0.36 |
| Lacey | RP 32 | 374696 | 5462400 | 466 | 0.6 | 10.6 | 8.7 | 26 | 0.1 | 11.6 | 4.4 | 159 | 2.37 | 8.9 | 0.5 | 0.4 | 20 | 0.3 | 0.4 | <0.1 | 97 | 0.36 |
| Lacey | RP 33 | 374751 | 5462408 | 445 | 0.6 | 10.4 | 8.8 | 30 | 0.1 | 13.7 | 5.1 | 202 | 2.51 | 9.5 | 0.9 | 0.4 | 22 | 0.3 | 0.4 | <0.1 | 90 | 0.42 |
| Lacey | RP 34 | 374797 | 5462398 | 435 | 0.7 | 10.8 | 9.1 | 37 | 0.1 | 14.5 | 5.6 | 215 | 2.75 | 11 | 3 | 0.4 | 22 | 0.2 | 0.4 | <0.1 | 100 | 0.4 |
| Lacey | RP 35 | 374863 | 5462410 | 455 | 1.8 | 28.8 | 5.7 | 54 | 0.2 | 22.1 | 9.8 | 1075 | 3.36 | 5.1 | 1.9 | 0.6 | 16 | 1.1 | 0.6 | <0.1 | 103 | 0.49 |
| Lacey | RP 36 | 374896 | 5462395 | 454 | 2 | 30.9 | 5.6 | 59 | 0.2 | 23.9 | 10.3 | 1194 | 3.54 | 5.5 | 7.4 | 0.7 | 16 | 1.3 | 0.6 | <0.1 | 106 | 0.48 |
| Lacey | RP 37 | 374951 | 5462398 | 455 | 1.4 | 39.1 | 4.2 | 47 | 0.1 | 31.5 | 12.4 | 379 | 3.67 | 7.2 | 2.3 | 0.8 | 10 | 0.2 | 0.6 | <0.1 | 116 | 0.28 |
| Lacey | RP 38 | 374989 | 5462398 | 433 | 1 | 49.7 | 4.5 | 63 | 0.1 | 23.9 | 8.9 | 357 | 4.89 | 8.8 | 2.7 | 0.9 | 12 | 0.1 | 1.2 | <0.1 | 127 | 0.25 |
| Lacey | RP 39 | 374954 | 5462015 | 505 | 0.2 | 4.1 | 4.9 | 14 | <0.1 | 4 | 1.9 | 161 | 2.04 | 1.6 | 5.6 | 0.3 | 15 | <0.1 | 0.4 | <0.1 | 92 | 0.24 |
| Lacey | RP 40 | 374897 | 5461998 | 516 | 0.5 | 31.3 | 4.8 | 44 | <0.1 | 17 | 7.6 | 1130 | 4.17 | 3.8 | 1.7 | 0.7 | 9 | <0.1 | 0.6 | <0.1 | 129 | 0.24 |
| Lacey | RP 41 | 374843 | 5461999 | 521 | 0.8 | 23.5 | 6.4 | 34 | <0.1 | 9.9 | 3.8 | 175 | 3.39 | 2.9 | 1.8 | 0.7 | 13 | <0.1 | 0.5 | <0.1 | 105 | 0.24 |
| Lacey | RP 42 | 374807 | 5462006 | 527 | 0.3 | 25.5 | 6.4 | 30 | <0.1 | 9.8 | 5.8 | 529 | 4.51 | 2.6 | <0.5 | 0.7 | 15 | <0.1 | 0.5 | 0.3 | 149 | 0.19 |
| Lacey | RP 43 | 374745 | 5462001 | 503 | 0.4 | 25.6 | 5.5 | 42 | <0.1 | 12.2 | 5.7 | 152 | 3.59 | 3.3 | 3 | 0.7 | 9 | <0.1 | 0.5 | 0.2 | 120 | 0.2 |
| Lacey | RP 44 | 374680 | 5461984 | 526 | 0.5 | 31.2 | 5.8 | 33 | <0.1 | 9.4 | 4.8 | 168 | 2.61 | 2.9 | 2.1 | 0.5 | 10 | 0.1 | 0.4 | 0.2 | 91 | 0.18 |
| Lacey | RP 45 | 374651 | 5461998 | 527 | 0.5 | 20.4 | 7.4 | 38 | 0.1 | 5 | 4.9 | 170 | 2.63 | 3.9 | 4.8 | 0.6 | 5 | <0.1 | 0.4 | 0.2 | 74 | 0.1 |
| Lacey | RP 46 | 374610 | 5461999 | 524 | 0.4 | 23 | 15.2 | 32 | 0.1 | 3.7 | 12 | 7796 | 1.45 | 2 | <0.5 | <0.1 | 28 | 0.2 | 0.3 | 0.2 | 71 | 0.59 |
| Lacey | RP 47 | 374540 | 5462003 | 540 | 0.3 | 8.1 | 7.3 | 22 | <0.1 | 3.3 | 3.1 | 374 | 3.01 | 2 | 1.3 | 0.5 | 28 | <0.1 | 0.4 | 0.2 | 131 | 0.34 |

| Project | Sample No | 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 | ppm V | % Ca |
|---------|--------------|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| Lacey | | 374450 | 5462001 | 527 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | | 374392 | 5462000 | 534 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | | 374351 | 5462010 | 525 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LL 12 LH 22 | 374651 | 5462396 | 451 | 0.4 | 34.3 | 6.2 | 54 | 0.1 | 13.5 | 10.9 | 468 | 4.42 | 4.5 | 1 | 0.6 | 14 | 0.1 | 0.6 | <0.1 | 178 | 0.34 |
| Lacey | | 374591 | 5462407 | 473 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LL 12 LH 24 | 374538 | 5462399 | 495 | 0.8 | 18.1 | 10 | 125 | 0.5 | 14.2 | 11.9 | 532 | 3.9 | 5.5 | 3.5 | 0.6 | 19 | 0.3 | 0.7 | 0.1 | 122 | 0.26 |
| Lacey | LL 12 LH 25 | 374470 | 5462420 | 508 | 1.4 | 77.3 | 4.4 | 86 | 0.2 | 15.1 | 39.1 | 1542 | 4.16 | 9.7 | 3.3 | 2.7 | 10 | 0.1 | 0.6 | <0.1 | 101 | 0.16 |
| Lacey | LL 12 LH 26 | 374443 | 5462386 | 530 | 0.3 | 28.4 | 7.3 | 73 | <0.1 | 8.3 | 12.3 | 1383 | 5.89 | 4.4 | 2.4 | 1.2 | 26 | <0.1 | 0.3 | 0.2 | 188 | 0.32 |
| Lacey | LL 12 LH 27 | 374405 | 5462400 | 524 | 0.7 | 8.8 | 8.2 | 20 | <0.1 | 5.1 | 3.2 | 145 | 5.75 | 5.4 | 0.6 | 0.5 | 23 | <0.1 | 0.7 | 0.2 | 279 | 0.29 |
| Lacey | LL 12 LH 28 | 374318 | 5462375 | 511 | 1 | 61.4 | 17.2 | 174 | 0.1 | 25.5 | 19.6 | 1069 | 4.93 | 12 | 3.2 | 1.1 | 14 | 0.3 | 0.9 | 0.1 | 173 | 0.35 |
| Lacey | LL 12 LH 29 | 374307 | 5462398 | 496 | 6.2 | 23.3 | 10.2 | 103 | 0.2 | 8.1 | 14.4 | 967 | 4.87 | 333.9 | 1.3 | 0.5 | 32 | 3 | 1.1 | 0.1 | 181 | 0.65 |
| Lacey | LL 12 LH 30 | 374239 | 5462393 | 513 | 1.3 | 52.4 | 4 | 123 | <0.1 | 6.3 | 26.3 | 1421 | 8.16 | 61.7 | 1.5 | 0.9 | 22 | 0.3 | 0.4 | <0.1 | 138 | 0.57 |
| Lacey | | 374192 | 5462381 | 528 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LL12 LH-32 | 374246 | 5462608 | 502 | 0.6 | 12.6 | 4 | 39 | 0.1 | 9.3 | 4.6 | 106 | 3.42 | 5.6 | 1 | 0.4 | 11 | <0.1 | 1.1 | <0.1 | 123 | 0.19 |
| Lacey | LL12 LH-33 | 374314 | 5462586 | 512 | 0.6 | 60.1 | 6.7 | 111 | 0.1 | 13.2 | 9.8 | 282 | 3.49 | 4.7 | 3.4 | 0.7 | 14 | 0.1 | 0.8 | 0.1 | 116 | 0.25 |
| Lacey | LL12 LH-34 | 374348 | 5462596 | 516 | 0.6 | 11 | 6 | 27 | <0.1 | 6.7 | 4.3 | 142 | 3.07 | 3.2 | 2.8 | 0.4 | 17 | 0.1 | 0.7 | <0.1 | 106 | 0.23 |
| Lacey | | 374398 | 5462609 | 527 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LLS 12 LH-36 | 374906 | 5459400 | 415 | 0.6 | 32.6 | 7.3 | 27 | 0.2 | 21 | 13.2 | 840 | 3.19 | 11.2 | 7.8 | 0.7 | 27 | 0.2 | 0.8 | <0.1 | 98 | 1.2 |
| Lacey | LLS 12 LH-37 | 374849 | 5459372 | 420 | 0.5 | 14 | 6.6 | 70 | 0.2 | 14.2 | 14 | 1800 | 2.33 | 2.3 | 3 | 0.6 | 13 | <0.1 | 0.3 | 0.1 | 65 | 0.33 |
| Lacey | LLS 12 LH-38 | 374798 | 5459406 | 420 | 0.3 | 13.8 | 4.4 | 25 | <0.1 | 14.7 | 7.3 | 310 | 2.3 | 2.4 | 1.7 | 0.4 | 14 | <0.1 | 0.3 | <0.1 | 78 | 0.3 |
| Lacey | LLS 12 LH-39 | 374752 | 5459400 | 421 | 0.6 | 32.1 | 4.5 | 89 | 0.2 | 32.1 | 15.3 | 381 | 3.58 | 3.9 | 2.9 | 0.7 | 12 | 0.2 | 0.7 | <0.1 | 87 | 0.23 |
| Lacey | LLS 12 LH-40 | 374703 | 5459399 | 418 | 0.7 | 23.7 | 5 | 35 | 0.1 | 25.2 | 17.9 | 2042 | 4.13 | 4.7 | 3.1 | 0.7 | 27 | 0.2 | 1.6 | <0.1 | 121 | 0.83 |
| Lacey | LLS 12 LH-41 | 374641 | 5459408 | 424 | 0.5 | 35.2 | 5 | 48 | <0.1 | 22.4 | 13.2 | 854 | 3.25 | 3.3 | 1.1 | 0.9 | 13 | <0.1 | 0.3 | <0.1 | 110 | 0.29 |
| Lacey | | 374600 | 5459400 | 429 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LLS 12 LH-43 | 374550 | 5459409 | 429 | 1.2 | 43.6 | 4.9 | 45 | 0.2 | 24 | 12.4 | 316 | 4.06 | 3.5 | 2 | 1 | 12 | 0.1 | 0.3 | <0.1 | 144 | 0.29 |
| Lacey | LLS 12 LH-44 | 374505 | 5459411 | 431 | 1.4 | 54.9 | 4.3 | 46 | 0.1 | 26.8 | 14 | 355 | 4.23 | 4 | 1.9 | 1.2 | 11 | 0.1 | 0.4 | <0.1 | 145 | 0.3 |
| Lacey | LLS 12 LH-45 | 374451 | 5459400 | 433 | 0.7 | 13.2 | 6.8 | 52 | <0.1 | 7.9 | 6.5 | 1128 | 3.03 | 2.7 | 3 | 0.7 | 15 | <0.1 | 0.3 | 0.1 | 95 | 0.23 |
| Lacey | LLS 12 LH-46 | 374409 | 5459401 | 437 | 0.4 | 5.2 | 6.2 | 33 | <0.1 | 6.9 | 5.2 | 492 | 1.94 | 0.8 | 5.3 | 0.4 | 18 | <0.1 | 0.3 | <0.1 | 63 | 0.22 |
| Lacey | JT 001 | 375201 | 5462593 | 469 | 0.8 | 21.3 | 4.2 | 41 | 0.1 | 20.9 | 7.2 | 315 | 3.5 | 3.7 | 21 | 0.5 | 13 | 0.1 | 0.9 | <0.1 | 137 | 0.29 |
| Lacey | JT 002 | 375141 | 5462593 | 451 | 0.9 | 15.2 | 9.4 | 69 | 0.2 | 28.5 | 26.3 | >10000 | 2.48 | 5.2 | 2.3 | 0.4 | 15 | 0.2 | 1.3 | 0.1 | 61 | 0.31 |
| Lacey | JT 003 | 375093 | 5462601 | 447 | 0.4 | 13.3 | 5.7 | 28 | 0.2 | 9.8 | 3.2 | 150 | 2.53 | 1.2 | 4 | 0.4 | 21 | <0.1 | 0.3 | <0.1 | 86 | 0.26 |
| Lacey | JT 004 | 375051 | 5462600 | 443 | 0.7 | 54.9 | 4.6 | 60 | <0.1 | 30.9 | 10.7 | 473 | 4.2 | 5.7 | 1.6 | 0.9 | 10 | 0.1 | 0.9 | <0.1 | 157 | 0.3 |
| Lacey | JT 005 | 374998 | 5462601 | 426 | 2 | 55.1 | 4.1 | 52 | <0.1 | 40.1 | 15.6 | 282 | 5.18 | 6.1 | 2.9 | 0.9 | 10 | 0.2 | 1.2 | <0.1 | 199 | 0.26 |
| Lacey | JT 006 | 374950 | 5462601 | 432 | 0.8 | 19.8 | 6.7 | 90 | 0.2 | 43.9 | 22.9 | 2823 | 4.83 | 3 | <0.5 | 0.4 | 34 | 0.2 | 0.3 | <0.1 | 162 | 0.71 |
| Lacey | JT 007 | 374893 | 5462602 | 451 | 0.4 | 29.5 | 7 | 41 | 0.1 | 21.4 | 8.1 | 486 | 3.05 | 3.7 | 1.3 | 0.7 | 8 | <0.1 | 0.5 | <0.1 | 117 | 0.25 |
| Lacey | JT 008 | 374850 | 5462594 | 448 | 0.5 | 16.3 | 4.1 | 30 | 0.2 | 10.8 | 4.6 | 166 | 2.79 | 2.3 | 0.9 | 0.4 | 21 | 0.2 | 0.4 | <0.1 | 124 | 0.25 |
| Lacey | JT 009 | 374796 | 5462599 | 459 | 0.2 | 2.6 | 5.6 | 23 | <0.1 | 8.5 | 4.9 | 182 | 1.83 | 0.7 | 1.2 | 0.2 | 16 | <0.1 | 0.3 | <0.1 | 90 | 0.28 |
| Lacey | JT 010 | 374749 | 5462599 | 459 | 0.8 | 31.1 | 4.7 | 36 | 0.1 | 17.2 | 6 | 212 | 4.22 | 2.6 | 1.2 | 0.7 | 11 | <0.1 | 0.6 | <0.1 | 172 | 0.23 |
| Lacey | JT 011 | 374692 | 5462605 | 444 | 0.8 | 29.9 | 6.2 | 58 | 0.1 | 20.7 | 8.5 | 505 | 4.03 | 5.2 | 1.4 | 0.5 | 10 | 0.2 | 0.6 | <0.1 | 156 | 0.27 |
| Lacey | JT 012 | 374199 | 5463196 | 453 | 0.5 | 47.9 | 6.4 | 66 | <0.1 | 23.4 | 10.8 | 389 | 4.38 | 6.3 | 1.5 | 0.6 | 9 | 0.1 | 0.7 | <0.1 | 189 | 0.3 |
| Lacey | JT 013 | 374250 | 5463192 | 467 | 0.9 | 37 | 5.4 | 39 | <0.1 | 35.1 | 14 | 414 | 5.05 | 5.1 | 1.1 | 0.7 | 8 | <0.1 | 0.8 | <0.1 | 193 | 0.26 |
| Lacey | JT 014 | 374299 | 5463201 | 459 | 1.8 | 37.7 | 5.5 | 126 | 0.1 | 58 | 32 | 1349 | 6.74 | 10.5 | 1.4 | 1 | 9 | 0.2 | 1.5 | <0.1 | 227 | 0.35 |
| Lacey | JT 015 | 374352 | 5463199 | 479 | 0.5 | 20.4 | 11.7 | 31 | <0.1 | 11.1 | 7.5 | 723 | 3.33 | 4.1 | 1.6 | 0.3 | 19 | 0.1 | 0.5 | 0.1 | 104 | 0.27 |
| Lacey | JT 016 | 374410 | 5463195 | 482 | 0.5 | 31.4 | 6.4 | 56 | <0.1 | 24.5 | 10.2 | 1444 | 4.22 | 6.5 | 1 | 0.6 | 9 | <0.1 | 0.5 | <0.1 | 153 | 0.25 |
| Lacey | JT 017 | 374452 | 5463199 | 478 | 0.3 | 8.8 | 6.3 | 23 | <0.1 | 6.8 | 3.2 | 633 | 2.73 | 3.5 | 1.6 | 0.5 | 11 | <0.1 | 0.4 | <0.1 | 98 | 0.3 |
| Lacey | JT 018 | 374498 | 5463193 | 463 | 0.7 | 49.8 | 7.1 | 74 | 0.2 | 39.6 | 23.5 | 1887 | 5.94 | 6.9 | 6.6 | 0.7 | 15 | 0.2 | 1.1 | 0.1 | 267 | 0.5 |
| Lacey | JT 019 | 374560 | 5463200 | 443 | 0.9 | 57.8 | 5 | 69 | 0.3 | 32 | 11.8 | 1145 | 4.98 | 10.5 | 2304.4 | 0.8 | 9 | 0.2 | 1.3 | <0.1 | 187 | 0.28 |

| Project | Sample No | 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 | ppm V | % Ca |
|---------|-----------|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| Lacey | JT 020 | 374600 | 5463196 | 427 | 0.4 | 29 | 4.8 | 55 | 0.2 | 26.8 | 11.3 | 713 | 3.8 | 6.4 | 3.1 | 0.4 | 11 | 0.1 | 0.7 | <0.1 | 152 | 0.35 |
| Lacey | JT 021 | 374649 | 5463196 | 414 | 0.8 | 103 | 8.1 | 79 | 0.2 | 50.4 | 19.8 | 1179 | 5.08 | 7.4 | 3.9 | 0.7 | 15 | 0.3 | 0.8 | <0.1 | 219 | 0.34 |
| Lacey | JT 022 | 374699 | 5463197 | 384 | 0.5 | 18.2 | 4.7 | 82 | <0.1 | 20.6 | 16.7 | 5391 | 2.89 | 2 | 0.9 | 0.3 | 23 | 0.5 | 0.2 | <0.1 | 86 | 0.39 |
| Lacey | JT 023 | 374749 | 5463202 | 361 | 0.8 | 42.3 | 5 | 66 | 0.2 | 31.5 | 11.7 | 603 | 3.87 | 4.7 | 1.7 | 0.6 | 12 | 0.4 | 1.3 | <0.1 | 105 | 0.47 |
| Lacey | JT 024 | 374806 | 5463197 | 339 | 0.6 | 10.8 | 4 | 43 | <0.1 | 27.1 | 11.1 | 508 | 3.85 | 2.5 | 1.1 | 0.4 | 12 | <0.1 | 4.7 | <0.1 | 136 | 0.33 |
| Lacey | JT 025 | 374854 | 5463195 | 340 | 1.1 | 14.3 | 7.7 | 47 | 0.3 | 29 | 9.6 | 2417 | 3.7 | 3.4 | 5.2 | 0.3 | 31 | 0.2 | 0.5 | <0.1 | 87 | 0.44 |
| Lacey | JT 026 | 374910 | 5463198 | 317 | 0.9 | 26.5 | 4.9 | 55 | 0.1 | 26.2 | 10.1 | 402 | 4.28 | 5 | 1.6 | 0.6 | 9 | 0.1 | 0.6 | <0.1 | 181 | 0.35 |
| Lacey | JT 027 | 374949 | 5463201 | 313 | 2.4 | 33.5 | 4.8 | 40 | 0.1 | 31.8 | 12.3 | 399 | 5.28 | 5.1 | 1.9 | 0.6 | 12 | 0.1 | 1.1 | <0.1 | 213 | 0.35 |
| Lacey | JT 028 | 375002 | 5463198 | 303 | 1.4 | 52.1 | 5.3 | 34 | 0.3 | 47.8 | 15.8 | 540 | 5.39 | 5.8 | 2.1 | 0.8 | 16 | 0.2 | 1.4 | <0.1 | 196 | 0.83 |
| Lacey | JT 029 | 375050 | 5463187 | 309 | 0.9 | 29.5 | 5.2 | 45 | <0.1 | 20.5 | 9.3 | 633 | 4.57 | 3.4 | 2.4 | 0.9 | 15 | 0.1 | 0.8 | 0.1 | 176 | 0.27 |
| Lacey | JT 030 | 375099 | 5463192 | 326 | 2.6 | 49.6 | 3.8 | 45 | 0.1 | 36.4 | 19 | 292 | 4.11 | 4.4 | 2.2 | 0.7 | 12 | <0.1 | 2.1 | <0.1 | 183 | 0.29 |
| Lacey | JT 031 | 375148 | 5463201 | 332 | 0.6 | 15.8 | 4.2 | 27 | <0.1 | 9.7 | 4.8 | 146 | 2.5 | 1 | 1.7 | 0.7 | 19 | <0.1 | 0.6 | <0.1 | 84 | 0.25 |
| Lacey | JT 032 | 375199 | 5463198 | 325 | 1.2 | 17.9 | 13.3 | 37 | 0.1 | 13.6 | 7.9 | 265 | 4.19 | 1.8 | 2.9 | 0.5 | 24 | <0.1 | 0.9 | <0.1 | 189 | 0.33 |
| Lacey | JT 033 | 375003 | 5462000 | 478 | 0.6 | 27.6 | 11.7 | 46 | <0.1 | 15.8 | 11.7 | 1128 | 3.4 | 2.3 | 1.9 | 0.7 | 18 | 0.1 | 0.6 | 0.1 | 112 | 0.35 |
| Lacey | JT 034 | 375045 | 5462003 | 459 | 1 | 41.5 | 4.3 | 47 | 0.1 | 22.1 | 13.6 | 516 | 3.8 | 4.8 | 2.7 | 0.7 | 12 | 0.2 | 0.6 | <0.1 | 152 | 0.32 |
| Lacey | JT 035 | 375100 | 5462001 | 451 | 0.6 | 18.7 | 3.8 | 34 | 0.1 | 13.1 | 5.8 | 148 | 3.17 | 2.2 | 3.5 | 0.5 | 15 | <0.1 | 0.4 | <0.1 | 110 | 0.25 |
| Lacey | JT 036 | 375160 | 5461998 | 453 | 1.5 | 6.1 | 4.7 | 26 | <0.1 | 14.8 | 4.6 | 103 | 2.68 | 7 | 0.6 | 0.3 | 15 | <0.1 | 2.9 | <0.1 | 93 | 0.32 |
| Lacey | JT 037 | 375202 | 5461994 | 449 | 1 | 39 | 6.9 | 62 | <0.1 | 43.8 | 16.5 | 313 | 4.39 | 6.9 | 1.8 | 0.8 | 16 | 0.1 | 1.1 | <0.1 | 159 | 0.3 |
| Lacey | JT 038 | 375198 | 5462195 | 432 | 0.5 | 14 | 5 | 33 | <0.1 | 15.9 | 5.6 | 157 | 3.15 | 2.1 | <0.5 | 0.5 | 11 | <0.1 | 0.9 | <0.1 | 107 | 0.24 |
| Lacey | JT 039 | 375144 | 5462202 | 457 | 1.4 | 63.8 | 4.7 | 67 | 0.2 | 31.1 | 13 | 348 | 4.56 | 5.5 | 1.7 | 1 | 10 | 0.2 | 0.7 | <0.1 | 174 | 0.23 |
| Lacey | JT 040 | 375102 | 5462208 | 451 | 0.6 | 27.9 | 4.8 | 43 | 0.2 | 20 | 7.7 | 179 | 3.57 | 5.1 | 1.4 | 0.7 | 12 | 0.1 | 0.7 | <0.1 | 118 | 0.26 |
| Lacey | JT 041 | 375049 | 5462198 | 443 | 1.4 | 41.3 | 4.4 | 43 | 0.3 | 48.1 | 16.8 | 402 | 3.73 | 4.9 | 3.2 | 0.6 | 24 | 0.2 | 0.9 | <0.1 | 111 | 0.88 |
| Lacey | JT 042 | 374453 | 5459793 | 461 | 1.1 | 31.4 | 4.9 | 60 | 0.1 | 30.9 | 16 | 738 | 3.86 | 4.3 | 1.8 | 0.9 | 12 | <0.1 | 0.5 | <0.1 | 119 | 0.36 |
| Lacey | JT 043 | 374453 | 5459793 | 460 | 0.7 | 29.4 | 4.5 | 46 | <0.1 | 19.6 | 11 | 257 | 3.7 | 3 | 3.3 | 0.8 | 12 | <0.1 | 0.4 | <0.1 | 115 | 0.33 |
| Lacey | JT 044 | 374505 | 5459796 | 468 | 0.5 | 48.1 | 3.8 | 51 | <0.1 | 45.6 | 17.4 | 519 | 3.58 | 7.3 | 1.4 | 0.8 | 13 | <0.1 | 1 | <0.1 | 115 | 0.34 |
| Lacey | JT 045 | 374551 | 5459801 | 474 | 1.1 | 46.9 | 4.4 | 42 | 0.1 | 47 | 18.3 | 536 | 4.69 | 3.9 | 2.4 | 0.8 | 12 | <0.1 | 0.6 | <0.1 | 175 | 0.33 |
| Lacey | JT 046 | 374596 | 5459793 | 490 | 0.2 | 31.4 | 6 | 56 | 0.1 | 47.4 | 25.9 | 982 | 3.41 | 3.7 | 1.9 | 0.3 | 18 | <0.1 | 0.5 | <0.1 | 116 | 0.37 |
| Lacey | JT 047 | 374662 | 5459793 | 496 | 0.8 | 108.7 | 4.8 | 65 | 0.2 | 74.8 | 30.8 | 830 | 5.93 | 11.4 | 8.5 | 0.7 | 17 | 0.1 | 2.7 | <0.1 | 160 | 0.34 |
| Lacey | JT 048 | 374705 | 5459806 | 507 | 0.7 | 33.5 | 4 | 48 | <0.1 | 25.9 | 12.2 | 396 | 3.65 | 4.2 | 6.5 | 1 | 12 | <0.1 | 0.6 | <0.1 | 124 | 0.28 |
| Lacey | JT 049 | 374752 | 5459802 | 496 | 0.3 | 23.4 | 4.2 | 62 | <0.1 | 16.8 | 13.2 | 723 | 2.81 | 2.4 | 2.1 | 0.7 | 15 | <0.1 | 0.3 | <0.1 | 93 | 0.32 |
| Lacey | JT 050 | 374801 | 5459798 | 498 | 0.6 | 37.9 | 3.7 | 53 | <0.1 | 25 | 12.4 | 1252 | 3.4 | 5.7 | <0.5 | 0.8 | 11 | <0.1 | 0.6 | <0.1 | 109 | 0.26 |
| Lacey | JT 051 | 374853 | 5459804 | 494 | 0.5 | 76.5 | 4.3 | 42 | 0.1 | 39.3 | 18.1 | 668 | 3.8 | 9.4 | 2.7 | 0.9 | 13 | <0.1 | 1.7 | <0.1 | 157 | 0.26 |
| Lacey | JT 052 | 374902 | 5459800 | 493 | 0.6 | 36.7 | 3.8 | 50 | 0.2 | 29.4 | 13.9 | 276 | 3.43 | 7.3 | 1.3 | 0.6 | 17 | <0.1 | 1.1 | <0.1 | 112 | 0.3 |
| Lacey | JT 053 | 374956 | 5459803 | 484 | 0.8 | 25.4 | 4.4 | 32 | <0.1 | 17.4 | 9.9 | 318 | 4.11 | 4.7 | 7.2 | 0.6 | 13 | <0.1 | 2.1 | <0.1 | 172 | 0.25 |
| Lacey | JT 054 | 374996 | 5459806 | 484 | 0.7 | 18.7 | 3.3 | 88 | <0.1 | 37.1 | 14.4 | 225 | 2.71 | 6.3 | 0.5 | 0.6 | 6 | 0.2 | 0.5 | <0.1 | 79 | 0.17 |
| Lacey | JT 055 | 374605 | 5462198 | 531 | 1.9 | 116.2 | 6.2 | 233 | 0.3 | 45.8 | 92.8 | 7964 | 5.63 | 4 | 4.8 | 1 | 20 | 0.3 | 1.4 | 0.1 | 145 | 0.45 |
| Lacey | JT 056 | 374556 | 5462206 | 518 | 1.3 | 32.1 | 14.2 | 55 | <0.1 | 11 | 9.1 | 971 | 7.51 | 5.1 | 1.1 | 1.2 | 20 | 0.1 | 0.7 | 0.2 | 268 | 0.3 |
| Lacey | JT 057 | 374499 | 5462204 | 529 | 0.9 | 46.2 | 6.5 | 80 | <0.1 | 24.5 | 14.4 | 361 | 5.94 | 5.4 | 2.4 | 1.2 | 15 | <0.1 | 0.6 | 0.1 | 215 | 0.31 |
| Lacey | JT 058 | 374455 | 5462201 | 549 | 0.8 | 57.7 | 5.2 | 48 | <0.1 | 28.5 | 12.5 | 367 | 6.01 | 7.3 | 4.1 | 1.3 | 10 | <0.1 | 0.9 | <0.1 | 242 | 0.28 |
| Lacey | JT 059 | 374398 | 5462205 | 546 | 0.6 | 29.3 | 6 | 56 | <0.1 | 16 | 9.6 | 358 | 3.9 | 4.9 | 1.6 | 0.7 | 10 | <0.1 | 0.6 | <0.1 | 121 | 0.19 |
| Lacey | JT 060 | 374346 | 5462201 | 539 | 1.7 | 58.1 | 8.3 | 98 | 0.2 | 15.9 | 20.8 | 1090 | 5.42 | 9.7 | 8.9 | 0.7 | 17 | 0.3 | 2.1 | 0.1 | 207 | 0.25 |
| Lacey | JT 061 | 374299 | 5462198 | 559 | 2.3 | 34.5 | 6 | 125 | 0.1 | 18.8 | 16.4 | 874 | 5.48 | 53.5 | 2 | 1.2 | 10 | 0.4 | 0.9 | <0.1 | 112 | 0.27 |
| Lacey | JT 062 | 374244 | 5462204 | 549 | 0.6 | 55.7 | 3.6 | 104 | <0.1 | 6.7 | 33.2 | 1743 | 8.23 | 6.2 | <0.5 | 0.6 | 41 | 0.1 | 0.5 | <0.1 | 245 | 0.57 |
| Lacey | JT 063 | 374198 | 5462206 | 540 | 1 | 27.8 | 8.7 | 84 | <0.1 | 16.8 | 18.8 | 3085 | 5.21 | 7 | 5.6 | 1.1 | 13 | <0.1 | 0.7 | 0.1 | 175 | 0.33 |
| Lacey | JT 064 | 374653 | 5462205 | 511 | 0.4 | 9.1 | 6.2 | 28 | <0.1 | 2.6 | 11.3 | 1935 | 3.83 | 0.7 | <0.5 | 0.5 | 35 | 0.1 | 0.8 | 0.1 | 110 | 0.26 |
| Lacey | MP 01 | 374227 | 5463438 | 420 | 0.7 | 34 | 8.2 | 51 | <0.1 | 12.4 | 14.4 | 1159 | 5.95 | 7 | 1.2 | 0.3 | 16 | <0.1 | 4 | <0.1 | 200 | 0.27 |
| Lacey | MP 02 | 374248 | 5463392 | 453 | 0.3 | 42 | 7 | 52 | <0.1 | 4.9 | 9.8 | 1045 | 4.37 | 17.5 | 4.6 | 0.4 | 6 | <0.1 | 6.8 | <0.1 | 140 | 0.13 |

| Project | Sample No | 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 | ppm V | % Ca |
|---------|-----------|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| Lacey | MP 03 | 374306 | 5463399 | 453 | 0.6 | 40.2 | 5.7 | 81 | 0.1 | 23.2 | 12.9 | 707 | 4.93 | 9.2 | 2.6 | 0.7 | 11 | <0.1 | 1.7 | <0.1 | 149 | 0.26 |
| Lacey | MP 04 | 374350 | 5463406 | 438 | 0.8 | 51.3 | 5 | 68 | 0.1 | 27 | 12.1 | 440 | 5.03 | 9.6 | 45 | 0.9 | 12 | <0.1 | 0.9 | <0.1 | 168 | 0.29 |
| Lacey | MP 05 | 374406 | 5463375 | 429 | 0.6 | 33.1 | 5.5 | 84 | 0.6 | 23.5 | 14.1 | 792 | 4.53 | 6.3 | 0.8 | 0.5 | 13 | 0.2 | 1 | <0.1 | 158 | 0.41 |
| Lacey | MP 06 | 374452 | 5463396 | 434 | 0.9 | 46.8 | 7.4 | 60 | <0.1 | 27.6 | 14.5 | 699 | 5.03 | 8.4 | 3.7 | 0.9 | 13 | <0.1 | 0.9 | 0.1 | 154 | 0.3 |
| Lacey | MP 07 | 374512 | 5463401 | 432 | 0.4 | 18.9 | 5.8 | 42 | 0.1 | 10.6 | 6.4 | 299 | 3.16 | 3.9 | 2.5 | 0.5 | 17 | <0.1 | 1.4 | <0.1 | 96 | 0.24 |
| Lacey | MP 08 | 374559 | 5463404 | 428 | 1.7 | 44.1 | 6.9 | 64 | 0.2 | 34.6 | 18.5 | 1372 | 4.45 | 9.9 | 2.1 | 0.5 | 31 | 0.2 | 1.6 | <0.1 | 118 | 0.29 |
| Lacey | MP 09 | 374602 | 5463394 | 411 | 1.7 | 28.5 | 4.7 | 58 | 0.2 | 38.4 | 13.8 | 543 | 4.39 | 8 | 1 | 0.4 | 13 | 0.2 | 3.9 | <0.1 | 136 | 0.27 |
| Lacey | MP 10 | 374649 | 5463393 | 374 | 1.7 | 48.7 | 11.1 | 190 | 0.3 | 95.2 | 26.7 | 757 | 4.99 | 14.3 | 1.1 | 0.6 | 15 | 0.5 | 1 | <0.1 | 165 | 0.31 |
| Lacey | MP 11 | 374697 | 5463387 | 349 | 0.9 | 50.9 | 8.2 | 88 | <0.1 | 35.4 | 15.7 | 1442 | 4.09 | 10.2 | 1.2 | 0.6 | 14 | 0.4 | 0.8 | <0.1 | 121 | 0.51 |
| Lacey | MP 12 | 374759 | 5463407 | 321 | 0.9 | 45 | 5.4 | 80 | 0.2 | 41.7 | 14.8 | 461 | 4.07 | 8.9 | 6.2 | 0.7 | 12 | 0.3 | 1.3 | <0.1 | 136 | 0.32 |
| Lacey | MP 13 | 374795 | 5463397 | 309 | 1.4 | 44.4 | 5.7 | 134 | 0.2 | 58 | 15.6 | 2604 | 4.81 | 6.4 | 1.3 | 0.8 | 16 | 0.4 | 7.3 | <0.1 | 124 | 0.37 |
| Lacey | MP 14 | 374848 | 5463390 | 306 | 0.6 | 31.1 | 3.7 | 57 | 0.2 | 39.7 | 16 | 489 | 4.29 | 5.8 | 0.5 | 0.5 | 20 | 0.1 | 0.5 | <0.1 | 120 | 0.33 |
| Lacey | MP 15 | 374902 | 5463400 | 315 | 0.6 | 16.2 | 5.4 | 31 | 0.1 | 13.7 | 5.7 | 160 | 3.18 | 3.8 | 1 | 0.6 | 19 | <0.1 | 0.5 | <0.1 | 114 | 0.27 |
| Lacey | MP 16 | 374961 | 5463383 | 314 | 0.2 | 11.6 | 6.8 | 32 | <0.1 | 22.5 | 9 | 440 | 3.1 | 1.3 | <0.5 | 0.6 | 53 | <0.1 | 0.2 | <0.1 | 98 | 0.43 |
| Lacey | MP 17 | 375001 | 5463394 | 315 | 0.8 | 32.2 | 3.9 | 60 | <0.1 | 31.4 | 12.3 | 239 | 4.31 | 4.8 | 0.6 | 0.8 | 18 | <0.1 | 0.6 | <0.1 | 144 | 0.36 |
| Lacey | MP 18 | 375050 | 5463399 | 315 | 1.3 | 36.6 | 5.3 | 60 | 0.1 | 29 | 13.6 | 628 | 4.51 | 4.4 | 1.5 | 0.8 | 18 | <0.1 | 0.8 | <0.1 | 149 | 0.38 |
| Lacey | MP 19 | 375116 | 5463403 | 307 | 0.7 | 11.6 | 4.8 | 33 | 0.2 | 4.3 | 9.4 | 1092 | 2.64 | 1.4 | <0.5 | 0.5 | 10 | <0.1 | 0.2 | <0.1 | 75 | 0.11 |
| Lacey | MP 20 | 375144 | 5463398 | 305 | 0.5 | 25.5 | 4.5 | 50 | <0.1 | 16.9 | 12.6 | 714 | 3.45 | 2.5 | 0.9 | 0.7 | 22 | <0.1 | 0.6 | <0.1 | 107 | 0.39 |
| Lacey | MP 21 | 375028 | 5462200 | 446 | 1.2 | 45.5 | 5.7 | 122 | 0.1 | 59.1 | 14.9 | 1550 | 4.99 | 7.1 | 1.1 | 0.8 | 12 | 0.3 | 8.7 | <0.1 | 129 | 0.27 |
| Lacey | MP 22 | 374277 | 5462818 | 480 | 0.9 | 20.3 | 16 | 74 | <0.1 | 16.3 | 71.6 | 3410 | 5.77 | 10.5 | 0.9 | 0.6 | 19 | 0.1 | 0.6 | 0.2 | 169 | 0.27 |
| Lacey | MP 23 | 374277 | 5462818 | 481 | 1.5 | 72.9 | 4.4 | 65 | <0.1 | 44.9 | 19.5 | 317 | 5.09 | 10.7 | 16.7 | 0.9 | 10 | <0.1 | 0.9 | <0.1 | 165 | 0.3 |
| Lacey | MP 24 | 374321 | 5462801 | 486 | 0.6 | 40.7 | 5.9 | 51 | <0.1 | 25.2 | 9.8 | 250 | 4.32 | 8.3 | 2.1 | 0.8 | 11 | <0.1 | 1 | <0.1 | 147 | 0.24 |
| Lacey | MP 25 | 374351 | 5462798 | 498 | 0.7 | 48.7 | 6 | 75 | 0.1 | 22.9 | 11.6 | 312 | 4.94 | 9.5 | 111 | 0.8 | 12 | 0.1 | 1.2 | <0.1 | 146 | 0.26 |
| Lacey | MP 26 | 374402 | 5462803 | 503 | 0.7 | 18.3 | 8.9 | 27 | <0.1 | 8.1 | 4.7 | 768 | 4.69 | 3.5 | 4.3 | 0.6 | 32 | <0.1 | 0.6 | 0.1 | 157 | 0.38 |
| Lacey | MP 27 | 374450 | 5462798 | 497 | 0.9 | 25.2 | 9.6 | 48 | 0.4 | 7.1 | 10.5 | 5107 | 2.84 | 5.6 | 22.8 | 0.4 | 9 | <0.1 | 0.4 | <0.1 | 114 | 0.28 |
| Lacey | MP 28 | 374510 | 5462803 | 491 | 0.1 | 3.5 | 6.4 | 12 | <0.1 | 2.4 | 6.2 | 784 | 1.27 | 1 | 1.8 | 0.4 | 93 | <0.1 | 0.3 | <0.1 | 73 | 0.76 |
| Lacey | MP 29 | 374551 | 5462790 | 480 | 0.7 | 26.4 | 14.1 | 108 | 0.2 | 14.1 | 15.3 | 1538 | 3.82 | 2.3 | 0.5 | 1.5 | 26 | 0.2 | 0.4 | 0.2 | 83 | 0.35 |
| Lacey | MP 30 | 374600 | 5462809 | 456 | 1.6 | 139.5 | 10.1 | 85 | 0.3 | 29.6 | 21.6 | 698 | 5.64 | 12 | 16.6 | 1.3 | 11 | 0.2 | 1.1 | 0.1 | 117 | 0.29 |
| Lacey | MP 31 | 374652 | 5462811 | 446 | 0.3 | 5 | 4.8 | 10 | <0.1 | 2.9 | 1.6 | 182 | 1.84 | 1.6 | 1.4 | 0.4 | 21 | <0.1 | 0.3 | <0.1 | 85 | 0.23 |
| Lacey | MP 32 | 374712 | 5462810 | 435 | 0.5 | 20.5 | 13.1 | 55 | <0.1 | 9.8 | 8.6 | 3009 | 3.19 | 4.7 | 1 | 0.4 | 16 | 0.2 | 0.5 | 0.1 | 93 | 0.38 |
| Lacey | MP 33 | 374755 | 5462791 | 427 | 1 | 84.9 | 13.2 | 120 | 0.2 | 22.6 | 24.5 | 2874 | 5.43 | 6.1 | 5.9 | 0.6 | 15 | 0.3 | 1.8 | 0.4 | 121 | 0.3 |
| Lacey | MP 34 | 374763 | 5462790 | 409 | 1.6 | 66.7 | 6.8 | 118 | 0.3 | 79 | 27.7 | 1330 | 6.18 | 9.7 | 2.4 | 0.7 | 17 | 1.4 | 3 | <0.1 | 163 | 0.76 |
| Lacey | | 374812 | 5462795 | 403 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | MP 35 | 374835 | 5462803 | 402 | 0.9 | 18.7 | 6 | 50 | <0.1 | 22.2 | 10.2 | 571 | 3.47 | 3.7 | 2.1 | 0.4 | 43 | 0.2 | 0.6 | <0.1 | 116 | 0.41 |
| Lacey | MP 36 | 374895 | 5462789 | 402 | 0.7 | 27 | 16.6 | 88 | 0.2 | 20.9 | 11.6 | 770 | 3.83 | 4.7 | 2.1 | 0.6 | 15 | 0.4 | 0.4 | <0.1 | 122 | 0.32 |
| Lacey | | 374929 | 5462788 | 398 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | MP 38 | 374913 | 5459211 | 410 | 0.6 | 60.2 | 2.6 | 37 | 0.1 | 50.3 | 20.3 | 352 | 4.83 | 85.9 | 3.3 | 0.5 | 7 | <0.1 | 7.2 | <0.1 | 153 | 0.17 |
| Lacey | MP 39 | 374841 | 5459197 | 399 | 0.8 | 95.2 | 5.5 | 48 | <0.1 | 96.7 | 33.5 | 1616 | 5.59 | 7.4 | 5.7 | 0.4 | 11 | 0.1 | 6.1 | <0.1 | 106 | 0.22 |
| Lacey | MP 40 | 374793 | 5459196 | 398 | 0.4 | 49.2 | 2.9 | 32 | <0.1 | 20.7 | 9.7 | 555 | 2.56 | 8 | 3.1 | 0.8 | 8 | <0.1 | 0.6 | <0.1 | 83 | 0.33 |
| Lacey | MP 41 | 374747 | 5459199 | 390 | 2.5 | 41 | 4.6 | 34 | <0.1 | 26.8 | 13.3 | 274 | 4.34 | 6.1 | 14.4 | 0.9 | 9 | <0.1 | 0.4 | <0.1 | 136 | 0.28 |
| Lacey | MP 42 | 374701 | 5459211 | 394 | 0.7 | 30.5 | 5 | 42 | <0.1 | 17.4 | 10.9 | 886 | 3.32 | 1.8 | 0.8 | 0.5 | 8 | <0.1 | 0.1 | <0.1 | 98 | 0.22 |
| Lacey | MP 43 | 374646 | 5459205 | 393 | 0.4 | 27 | 3.9 | 45 | <0.1 | 24.2 | 10.7 | 379 | 2.61 | 2.1 | 2.1 | 0.5 | 8 | <0.1 | 0.2 | <0.1 | 83 | 0.28 |
| Lacey | MP 44 | 374599 | 5459187 | 400 | 0.3 | 20.6 | 37.2 | 72 | <0.1 | 13 | 11 | 5782 | 2.49 | 2.2 | 38.5 | 0.4 | 14 | 0.1 | 0.1 | <0.1 | 72 | 0.48 |
| Lacey | MP 45 | 374564 | 5459199 | 400 | 0.6 | 56.1 | 3.9 | 51 | 0.1 | 23.9 | 17.1 | 566 | 3.51 | 7.4 | 3.6 | 0.7 | 14 | <0.1 | 1.4 | <0.1 | 94 | 0.35 |
| Lacey | MP 46 | 374510 | 5459208 | 404 | 0.6 | 9.3 | 6.8 | 34 | <0.1 | 12.1 | 7.4 | 1506 | 2.59 | 2.1 | 6 | 0.6 | 26 | <0.1 | 0.4 | <0.1 | 83 | 0.32 |
| Lacey | MP 47 | 374456 | 5459201 | 415 | 1.1 | 37.8 | 7.9 | 65 | <0.1 | 28 | 13.7 | 793 | 3.88 | 4.2 | 2.3 | 1 | 11 | <0.1 | 0.6 | 0.1 | 115 | 0.26 |
| Lacey | MP 48 | 374404 | 5459207 | 413 | 0.9 | 45 | 6.7 | 41 | <0.1 | 11.3 | 7.5 | 391 | 5.15 | 10.3 | 2.4 | 1.4 | 10 | <0.1 | 0.6 | 0.1 | 111 | 0.17 |

| Project | Sample No | 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 | ppm V | % Ca |
|---------|--------------|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| Lacey | LA-12 JT-001 | 376248 | 5459051 | | 6.3 | 50.9 | 10.1 | 428 | <0.1 | 21.1 | 33.9 | 1523 | 4.97 | 1.6 | 4.3 | 0.6 | 22 | 1 | 0.3 | 0.7 | 88 | 0.93 |
| Lacey | LA-12 JT-003 | 376143 | 5459047 | | 0.5 | 12.5 | 5.1 | 109 | <0.1 | 137.4 | 37.3 | 3139 | 6.03 | 2.3 | <0.5 | 0.5 | 27 | 0.1 | 0.2 | 0.4 | 136 | 0.32 |
| Lacey | LA-12 JT-004 | 376098 | 5459046 | | 0.5 | 60.5 | 4 | 59 | <0.1 | 48.1 | 25 | 1407 | 4.52 | 2.9 | 2.3 | 0.8 | 14 | <0.1 | 0.4 | 0.1 | 114 | 0.31 |
| Lacey | LA-12 JT-005 | 376054 | 5459041 | | 0.5 | 30 | 5.1 | 63 | <0.1 | 27.7 | 17.3 | 978 | 3.99 | 3.4 | 0.9 | 0.6 | 18 | <0.1 | 0.7 | <0.1 | 114 | 0.29 |
| Lacey | LA-12 JT-006 | 375996 | 5459050 | | 0.6 | 87.5 | 5.5 | 47 | <0.1 | 30.3 | 16 | 406 | 4.2 | 4.7 | 70.6 | 1.3 | 10 | <0.1 | 0.7 | <0.1 | 104 | 0.21 |
| Lacey | LA-12 JT-007 | 376304 | 5459055 | | 0.3 | 13.1 | 3.8 | 171 | <0.1 | 10.5 | 7.4 | 546 | 1.98 | 0.8 | <0.5 | 0.4 | 15 | 0.3 | <0.1 | <0.1 | 68 | 0.28 |
| Lacey | LA-12 JT-008 | 376354 | 5459049 | | 0.2 | 11.5 | 3.9 | 39 | <0.1 | 7.7 | 5.8 | 793 | 2.06 | 1.3 | 4.1 | 0.4 | 12 | <0.1 | 0.2 | <0.1 | 69 | 0.24 |
| Lacey | LA-12 JT-009 | 376399 | 5459055 | | 0.4 | 24.3 | 4.1 | 91 | <0.1 | 18.2 | 10.5 | 337 | 3.46 | 2.4 | <0.5 | 0.7 | 11 | 0.2 | 0.2 | <0.1 | 109 | 0.26 |
| Lacey | LA-12 JT-010 | 376453 | 5459055 | | 0.9 | 22.1 | 5.6 | 40 | <0.1 | 12.8 | 10.8 | 348 | 3.32 | 2.2 | 2.2 | 0.7 | 10 | <0.1 | 0.2 | 0.1 | 96 | 0.3 |
| Lacey | LA-12 JT-011 | 376500 | 5459050 | | 0.6 | 56.6 | 5.4 | 44 | 0.1 | 24.1 | 13 | 587 | 3.22 | 3.5 | <0.5 | 0.9 | 11 | <0.1 | 0.2 | <0.1 | 98 | 0.31 |
| Lacey | LA-12 JT-012 | 376549 | 5459043 | | 0.6 | 24 | 6.4 | 58 | 0.2 | 21.2 | 13.9 | 512 | 3.44 | 2.4 | 11.7 | 0.8 | 16 | <0.1 | 0.1 | <0.1 | 101 | 0.39 |
| Lacey | LA-12 JT-013 | 376598 | 5459043 | | 0.6 | 34.8 | 5.2 | 46 | <0.1 | 16.7 | 9.5 | 601 | 2.97 | 2.4 | 2.8 | 0.9 | 10 | <0.1 | 0.1 | <0.1 | 89 | 0.25 |
| Lacey | LA-12 PS-001 | 376000 | 5460850 | | 0.7 | 29.8 | 5.7 | 48 | <0.1 | 32.2 | 13.4 | 730 | 3.2 | 2.8 | <0.5 | 0.8 | 12 | <0.1 | 0.2 | <0.1 | 96 | 0.26 |
| Lacey | LA-12 PS-002 | 375950 | 5460850 | | 1 | 24.6 | 5.7 | 28 | <0.1 | 30 | 13.5 | 304 | 3.45 | 3.1 | 0.7 | 0.7 | 15 | <0.1 | 0.4 | <0.1 | 111 | 0.54 |
| Lacey | LA-12 PS-004 | 375850 | 5460850 | | 2 | 28.9 | 8.7 | 61 | 0.2 | 100.4 | 25.5 | 450 | 5.36 | 6.8 | <0.5 | 1.3 | 31 | <0.1 | 0.4 | 0.1 | 207 | 0.3 |
| Lacey | LA-12 PS-005 | 375799 | 5460866 | | 1.7 | 60.4 | 4.5 | 55 | 0.1 | 105.9 | 33.9 | 279 | 5.26 | 12.6 | 1.5 | 1.1 | 11 | 0.1 | 4.4 | <0.1 | 131 | 0.25 |
| Lacey | LA-12 PS-006 | 375750 | 5460850 | | 1.1 | 21.1 | 4.6 | 30 | <0.1 | 28.7 | 13.6 | 485 | 4.07 | 2.6 | 2.1 | 0.7 | 15 | <0.1 | 0.4 | <0.1 | 112 | 0.72 |
| Lacey | LA-12 PS-007 | 375700 | 5460850 | | 0.2 | 10.4 | 5.5 | 34 | 0.2 | 9.7 | 5.1 | 531 | 2.31 | 1.5 | <0.5 | 0.4 | 13 | <0.1 | 0.2 | <0.1 | 72 | 0.27 |
| Lacey | LA-12 PS-008 | 375652 | 5460855 | | 0.5 | 29.6 | 3.9 | 41 | 0.2 | 29 | 11.7 | 803 | 3.18 | 2.5 | <0.5 | 0.8 | 13 | <0.1 | 0.3 | <0.1 | 91 | 0.57 |
| Lacey | LA-12 PS-009 | 375613 | 5460841 | | 0.7 | 28.8 | 3.8 | 34 | <0.1 | 17.3 | 12.3 | 464 | 2.92 | 2.3 | <0.5 | 1 | 9 | <0.1 | 0.3 | <0.1 | 85 | 0.32 |
| Lacey | LA-12 PS-010 | 375553 | 5460850 | | 0.5 | 18.2 | 5.4 | 37 | <0.1 | 14.9 | 6.6 | 188 | 3.23 | 1 | 1.5 | 0.5 | 19 | <0.1 | 0.3 | <0.1 | 96 | 0.25 |
| Lacey | LA-12 PS-011 | 375495 | 5460852 | | 0.4 | 11 | 6.6 | 23 | <0.1 | 6.7 | 3.3 | 101 | 2.91 | 2 | 0.6 | 0.7 | 14 | <0.1 | 0.2 | <0.1 | 101 | 0.19 |
| Lacey | LA-12 PS-012 | 375451 | 5460855 | | 0.8 | 24.9 | 7.6 | 52 | <0.1 | 14.3 | 6.4 | 158 | 3.73 | 3 | <0.5 | 0.9 | 11 | <0.1 | 0.3 | <0.1 | 98 | 0.2 |
| Lacey | LA-12 PS-013 | 375414 | 5460842 | | 1.1 | 26.3 | 6.9 | 30 | <0.1 | 23.7 | 12.3 | 193 | 3.73 | 2.3 | 1.3 | 0.8 | 12 | <0.1 | 0.2 | <0.1 | 115 | 0.35 |
| Lacey | LA-12 PS-014 | 375353 | 5460855 | | 1.9 | 34.3 | 3.6 | 49 | <0.1 | 37 | 13.9 | 212 | 6.32 | 5.9 | <0.5 | 0.3 | 15 | 0.2 | 3 | <0.1 | 159 | 0.23 |
| Lacey | LA-12 PS-015 | 375292 | 5460855 | | 0.9 | 6.5 | 4.4 | 24 | <0.1 | 8.9 | 4.3 | 85 | 3.56 | 1.1 | 0.8 | 0.4 | 12 | <0.1 | 0.4 | <0.1 | 118 | 0.15 |
| Lacey | 13LS001 | 374986 | 5460360 | 515 | 2.1 | 46.1 | 15.7 | 129 | <0.1 | 11.7 | 11.1 | 838 | 3.76 | 2.9 | 6.3 | 0.4 | 14 | <0.1 | 0.8 | 0.2 | 128 | 0.13 |
| Lacey | 13LS002 | 374974 | 5460404 | 518 | 0.6 | 55.3 | 6 | 48 | <0.1 | 16.3 | 9.2 | 472 | 3.33 | 2.6 | 3.6 | 0.8 | 12 | <0.1 | 0.6 | 0.1 | 101 | 0.29 |
| Lacey | 13LS003 | 374963 | 5460459 | 523 | 1.6 | 91.6 | 3.6 | 34 | 0.2 | 11.4 | 13.9 | 452 | 4.2 | 2.3 | 7 | 0.5 | 21 | <0.1 | 0.5 | 0.2 | 138 | 0.25 |
| Lacey | 13LS004 | 374953 | 5460511 | 531 | 0.5 | 128.4 | 4.2 | 36 | 0.1 | 13.5 | 12.1 | 620 | 2.82 | 2.3 | 11.9 | 0.7 | 10 | <0.1 | 0.6 | 0.2 | 94 | 0.22 |
| Lacey | 13LS005 | 374976 | 5460560 | 533 | 1.4 | 199.1 | 6.9 | 219 | 0.3 | 16.8 | 22.9 | 1827 | 5.65 | 13.6 | 36.7 | 0.9 | 19 | 0.5 | 0.9 | 0.3 | 128 | 0.24 |
| Lacey | 13LS006 | 374994 | 5460600 | 531 | 4.4 | 76 | 6.5 | 97 | 0.1 | 52 | 30 | 1491 | 8.26 | 17 | 3.7 | 1.2 | 7 | 0.3 | 1.5 | <0.1 | 207 | 0.24 |
| Lacey | 13LS007 | 374993 | 5460656 | 531 | 0.5 | 94.9 | 3.4 | 38 | <0.1 | 30.1 | 13.9 | 303 | 3.35 | 6.7 | 11.2 | 1.2 | 10 | <0.1 | 0.5 | <0.1 | 97 | 0.41 |
| Lacey | 13LS008 | 374992 | 5460702 | 534 | 0.8 | 132.6 | 5.7 | 52 | 0.3 | 23.5 | 14.6 | 496 | 3.77 | 4.8 | 16.6 | 1.1 | 11 | 0.2 | 0.4 | <0.1 | 98 | 0.27 |
| Lacey | 13LS009 | 374975 | 5460745 | 531 | 0.4 | 64.8 | 2.5 | 33 | <0.1 | 24 | 10.1 | 324 | 2.44 | 3.1 | 4 | 0.9 | 8 | <0.1 | 0.2 | <0.1 | 76 | 0.25 |
| Lacey | 13LS010 | 374961 | 5460808 | 527 | 0.7 | 62 | 4.5 | 52 | <0.1 | 22.2 | 10.9 | 288 | 3.63 | 7.3 | 3.9 | 1 | 11 | <0.1 | 0.6 | <0.1 | 120 | 0.28 |
| Lacey | 13LS011 | 374986 | 5460846 | 525 | 2.2 | 73.2 | 5.5 | 84 | 0.3 | 25.8 | 28.4 | 7965 | 4.28 | 7.8 | 9.7 | 0.5 | 24 | 0.5 | 0.7 | 0.1 | 121 | 0.92 |
| Lacey | 13LS012 | 374995 | 5460899 | 522 | 0.8 | 98.3 | 3.9 | 52 | <0.1 | 33.2 | 18.9 | 272 | 3.84 | 6.8 | 8.8 | 1.2 | 9 | <0.1 | 0.6 | <0.1 | 122 | 0.29 |
| Lacey | 13LS013 | 375012 | 5460937 | 521 | 0.8 | 97.4 | 4.1 | 122 | <0.1 | 37.7 | 18.4 | 335 | 3.92 | 9.8 | 7.4 | 1.1 | 10 | <0.1 | 0.7 | <0.1 | 114 | 0.32 |
| Lacey | 13LS014 | 375035 | 5460985 | 526 | 0.3 | 43.7 | 6 | 58 | <0.1 | 18.2 | 9.5 | 417 | 3.29 | 5.2 | 3.5 | 0.7 | 9 | 0.1 | 0.8 | <0.1 | 105 | 0.26 |
| Lacey | 13LS015 | 375034 | 5461018 | 527 | 0.6 | 52.8 | 5.2 | 58 | 0.1 | 22.2 | 12.3 | 402 | 3.62 | 5.3 | 1.9 | 0.9 | 10 | 0.1 | 0.5 | <0.1 | 123 | 0.25 |
| Lacey | 13LS016 | 375046 | 5461083 | 526 | 0.9 | 97.9 | 4.5 | 64 | 0.2 | 35.2 | 19.2 | 289 | 5.14 | 14.9 | 5.8 | 1.5 | 7 | 0.2 | 1.1 | <0.1 | 155 | 0.23 |
| Lacey | 13LS017 | 375055 | 5461128 | 523 | 0.4 | 65.8 | 3.2 | 58 | <0.1 | 21.5 | 12.8 | 683 | 3.42 | 6.1 | 4.6 | 0.9 | 10 | 0.1 | 7.7 | <0.1 | 94 | 0.4 |
| Lacey | 13LS018 | 375045 | 5461178 | 526 | 7.2 | 490.8 | 58.3 | 103 | 0.3 | 74.4 | 55.8 | 5266 | 5.36 | 69.5 | 39.9 | 1.2 | 22 | 1.2 | 4.5 | 0.5 | 122 | 0.47 |
| Lacey | 13LS019 | 375014 | 5461220 | 531 | 2.4 | 153 | 3.9 | 44 | <0.1 | 61.4 | 31.7 | 240 | 3.94 | 12.2 | 3.2 | 1.1 | 17 | <0.1 | 1.2 | <0.1 | 97 | 0.74 |
| Lacey | 13LS020 | 374986 | 5461270 | 535 | 0.8 | 74.4 | 4.5 | 50 | <0.1 | 23.4 | 12.5 | 248 | 4.16 | 7.6 | 2.8 | 1.4 | 9 | <0.1 | 0.7 | <0.1 | 130 | 0.26 |
| Lacey | 13LS021 | 374966 | 5461316 | 536 | 1.2 | 85.8 | 4.6 | 59 | <0.1 | 31.2 | 17.1 | 454 | 4.26 | 6.7 | 2.1 | 1.3 | 10 | <0.1 | 0.6 | <0.1 | 128 | 0.24 |

| Project | Sample No | 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 | ppm V | % Ca |
|---------|-----------|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| Lacey | 13LS022 | 374923 | 5460808 | 529 | 1 | 172.1 | 4.9 | 53 | 0.2 | 26.7 | 15.5 | 338 | 4.65 | 8.9 | 28.8 | 1.2 | 8 | <0.1 | 1.6 | 0.2 | 161 | 0.26 |
| Lacey | 13LS023 | 374867 | 5460827 | 533 | 0.4 | 37.6 | 3.2 | 36 | <0.1 | 15.4 | 8.9 | 231 | 2.93 | 3.9 | 6.2 | 0.9 | 10 | <0.1 | 0.4 | <0.1 | 101 | 0.28 |
| Lacey | 13LS024 | 374820 | 5460841 | 539 | 0.4 | 60.3 | 3 | 41 | <0.1 | 20.5 | 12.6 | 308 | 3.13 | 3.6 | 3 | 0.8 | 11 | 0.2 | 0.4 | <0.1 | 104 | 0.31 |
| Lacey | 13LS025 | 374776 | 5460852 | 548 | 0.6 | 36.9 | 5.8 | 51 | <0.1 | 15.1 | 8.4 | 433 | 3.43 | 4.8 | 2.9 | 0.7 | 18 | <0.1 | 0.4 | <0.1 | 116 | 0.43 |
| Lacey | 13LS026 | 374745 | 5460836 | 555 | 0.7 | 47.3 | 6.4 | 62 | <0.1 | 17.4 | 8.3 | 154 | 5.95 | 4.8 | 1.3 | 1 | 8 | <0.1 | 0.5 | 0.1 | 187 | 0.2 |
| Lacey | 13LS027 | 374737 | 5460779 | 561 | 1.3 | 64.2 | 7.7 | 226 | 0.2 | 28.2 | 53.4 | 4299 | 4.17 | 5 | 8 | 0.7 | 20 | 0.4 | 0.7 | 0.2 | 104 | 0.56 |
| Lacey | 13LS028 | 374695 | 5460734 | 561 | 1 | 55.1 | 4.3 | 67 | <0.1 | 31.7 | 15.6 | 315 | 4.39 | 6.4 | 1.1 | 1.1 | 10 | <0.1 | 0.6 | <0.1 | 141 | 0.26 |
| Lacey | 13LS029 | 374654 | 5460749 | 558 | 0.7 | 72.1 | 2.6 | 36 | <0.1 | 20.4 | 13.1 | 477 | 3.04 | 7 | 2.3 | 1.3 | 14 | <0.1 | 0.3 | <0.1 | 112 | 0.42 |
| Lacey | 13LS030 | 374616 | 5460772 | 559 | 0.8 | 41 | 4.7 | 52 | 0.1 | 22.4 | 10.5 | 291 | 3.2 | 10 | 2.2 | 0.9 | 10 | 0.2 | 1.7 | <0.1 | 94 | 0.33 |
| Lacey | 13LS031 | 374583 | 5460826 | 564 | 1.3 | 52.6 | 5.2 | 70 | 0.1 | 34.6 | 14.3 | 315 | 2.96 | 15.5 | 2.5 | 1 | 8 | 0.4 | 2.9 | <0.1 | 80 | 0.19 |
| Lacey | 13LS032 | 374534 | 5460831 | 562 | 0.5 | 39.2 | 4 | 63 | <0.1 | 41.1 | 15.2 | 343 | 3.6 | 7.3 | 1.2 | 1.1 | 19 | 0.4 | 1.2 | <0.1 | 95 | 0.36 |
| Lacey | 13LS033 | 374483 | 5460835 | 555 | 1 | 40.1 | 8 | 72 | <0.1 | 19.6 | 12.1 | 379 | 3.61 | 7.4 | 2.4 | 0.9 | 8 | 0.1 | 1.7 | <0.1 | 101 | 0.21 |
| Lacey | 13LS034 | 374431 | 5460862 | 549 | 0.3 | 76.1 | 2.9 | 52 | 0.1 | 31 | 12.5 | 955 | 3.3 | 6 | 3.6 | 1.3 | 22 | <0.1 | 1.4 | <0.1 | 104 | 0.55 |
| Lacey | 13LS035 | 374391 | 5460897 | 543 | 0.5 | 41.2 | 4.3 | 46 | <0.1 | 23.1 | 13.6 | 275 | 3.92 | 3.7 | 1.6 | 0.8 | 12 | <0.1 | 0.5 | <0.1 | 132 | 0.3 |
| Lacey | 13LS036 | 374364 | 5460930 | 541 | 0.6 | 59.3 | 5.2 | 51 | <0.1 | 20.8 | 11 | 273 | 3.95 | 4.7 | 1.4 | 0.8 | 10 | <0.1 | 0.6 | <0.1 | 132 | 0.25 |
| Lacey | 13LS037 | 374316 | 5460921 | 544 | 0.4 | 74.1 | 3.3 | 35 | <0.1 | 21.7 | 9.7 | 262 | 2.52 | 4.4 | 4 | 1.2 | 10 | <0.1 | 0.4 | <0.1 | 93 | 0.33 |
| Lacey | 13LS038 | 374261 | 5460900 | 547 | 0.7 | 119 | 8.2 | 62 | 0.3 | 38 | 15.1 | 589 | 3.64 | 10 | 9.9 | 1.1 | 15 | <0.1 | 1.8 | 0.8 | 101 | 0.57 |
| Lacey | 13LS039 | 374237 | 5460943 | 546 | 0.5 | 44.1 | 4.3 | 61 | 0.1 | 18.6 | 13.8 | 762 | 3.47 | 4.1 | 3.9 | 0.8 | 9 | 0.1 | 0.6 | 0.1 | 107 | 0.26 |
| Lacey | 13LS040 | 374237 | 5460997 | 544 | 0.7 | 90.5 | 4.7 | 51 | <0.1 | 30.3 | 16.3 | 481 | 3.77 | 7.1 | 3.9 | 1.4 | 11 | 0.1 | 0.9 | <0.1 | 123 | 0.3 |
| Lacey | 13LS041 | 374255 | 5461049 | 539 | 0.9 | 70.2 | 4.5 | 45 | 0.2 | 28.3 | 14.1 | 531 | 4.43 | 7.5 | 20.5 | 0.8 | 16 | 0.1 | 1.8 | <0.1 | 141 | 0.49 |
| Lacey | 13LS042 | 374277 | 5461099 | 540 | 0.3 | 90.1 | 2.9 | 48 | <0.1 | 29.9 | 14.1 | 357 | 3.25 | 5 | 1.5 | 0.9 | 11 | <0.1 | 0.6 | <0.1 | 110 | 0.35 |
| Lacey | 13LS043 | 374268 | 5461142 | 541 | 0.5 | 64.5 | 5 | 60 | 0.1 | 24.9 | 15.5 | 569 | 4.22 | 5.3 | 3.9 | 1 | 11 | 0.1 | 0.6 | 0.1 | 141 | 0.26 |
| Lacey | 13LS044 | 374260 | 5461192 | 537 | 0.4 | 69.1 | 3 | 42 | <0.1 | 28.8 | 14.7 | 291 | 3.29 | 5.8 | 3 | 1.1 | 10 | <0.1 | 0.6 | <0.1 | 110 | 0.32 |
| Lacey | 13LS045 | 375043 | 5460362 | 515 | 0.2 | 12.5 | 4.3 | 31 | 0.2 | 6.6 | 4 | 172 | 2.01 | 1 | 4.1 | 0.7 | 18 | <0.1 | 0.3 | 0.1 | 69 | 0.2 |
| Lacey | 13LS046 | 375082 | 5460368 | 513 | 0.5 | 48.8 | 6.6 | 68 | 0.3 | 15.6 | 9.5 | 487 | 3.01 | 3.6 | 2.1 | 0.9 | 13 | <0.1 | 0.4 | 0.1 | 93 | 0.22 |
| Lacey | 13LS047 | 375104 | 5460317 | 511 | 0.4 | 53.5 | 10.6 | 37 | 0.1 | 4.8 | 9.8 | 788 | 1.59 | 1.4 | 5.3 | 0.2 | 24 | <0.1 | 0.4 | 0.1 | 52 | 0.3 |
| Lacey | 13LS048 | 375099 | 5460282 | 509 | 1.2 | 64.2 | 4.7 | 61 | <0.1 | 31.3 | 21.9 | 326 | 3.92 | 5.9 | 2.9 | 1.2 | 13 | 0.1 | 0.6 | <0.1 | 109 | 0.26 |
| Lacey | 13LS049 | 375117 | 5460227 | 505 | 1.7 | 48.6 | 6.2 | 48 | 0.1 | 23.1 | 19.5 | 1253 | 3.27 | 5.4 | 10.2 | 0.8 | 15 | 0.2 | 0.8 | <0.1 | 101 | 0.37 |
| Lacey | 13LS050 | 375170 | 5460205 | 504 | 1 | 43 | 6.7 | 40 | <0.1 | 19 | 15.4 | 1051 | 2.96 | 2.7 | 3.5 | 0.8 | 16 | <0.1 | 0.5 | <0.1 | 92 | 0.42 |
| Lacey | 13LS052 | 375221 | 5460204 | 502 | 1.5 | 33.6 | 8.4 | 80 | <0.1 | 10 | 17.1 | 1744 | 5.45 | 3.5 | 11.5 | 0.9 | 28 | <0.1 | 0.9 | 0.1 | 133 | 0.28 |
| Lacey | 13LS053 | 375267 | 5460199 | 500 | 0.4 | 40.5 | 10 | 31 | <0.1 | 17 | 10 | 512 | 3.15 | 2.2 | 2 | 0.8 | 17 | 0.1 | 0.4 | <0.1 | 117 | 0.51 |
| Lacey | 13LS054 | 375310 | 5460189 | 498 | 1 | 21.8 | 8.4 | 52 | 0.1 | 15.6 | 9.5 | 328 | 3.09 | 5.5 | 2 | 0.8 | 19 | <0.1 | 0.5 | <0.1 | 103 | 0.27 |
| Lacey | 13LS055 | 375352 | 5460179 | 499 | 1.1 | 57.5 | 5 | 66 | 0.1 | 25.8 | 17.3 | 431 | 3.51 | 4.6 | 3.5 | 1.2 | 13 | 0.1 | 0.4 | <0.1 | 107 | 0.28 |
| Lacey | 13LS056 | 375394 | 5460155 | 496 | 0.7 | 50.3 | 2.6 | 43 | <0.1 | 20.1 | 13.6 | 330 | 3.29 | 3.4 | 2.4 | 0.9 | 15 | <0.1 | 0.3 | <0.1 | 103 | 0.37 |
| Lacey | 13LS057 | 375433 | 5460125 | 494 | 0.7 | 47.5 | 2.5 | 31 | <0.1 | 23.6 | 13.4 | 257 | 3.13 | 3 | 1.6 | 1 | 13 | <0.1 | 0.3 | <0.1 | 101 | 0.39 |
| Lacey | 13LS058 | 375461 | 5460079 | 491 | 0.5 | 51.3 | 2.5 | 32 | <0.1 | 22.8 | 12.6 | 276 | 3.24 | 3.5 | 2.4 | 1.1 | 14 | 0.1 | 0.4 | <0.1 | 114 | 0.35 |
| Lacey | 13LS059 | 375501 | 5460046 | 488 | 1.1 | 50.6 | 25.4 | 46 | 0.1 | 29.7 | 12.7 | 324 | 4.09 | 8.2 | 3 | 1.1 | 31 | 0.2 | 0.3 | <0.1 | 123 | 0.4 |
| Lacey | 13LS060 | 375525 | 5460007 | 487 | 0.7 | 59.2 | 4.2 | 47 | <0.1 | 27.5 | 13.2 | 322 | 3.41 | 4.7 | 2.4 | 1.4 | 17 | 0.2 | 0.4 | <0.1 | 112 | 0.34 |
| Lacey | 13LS061 | 375555 | 5459965 | 484 | 0.8 | 40.2 | 3.3 | 54 | <0.1 | 29.3 | 17.3 | 274 | 3.41 | 4.8 | 1.3 | 0.8 | 16 | <0.1 | 0.4 | <0.1 | 100 | 0.29 |
| Lacey | 13LS062 | 375607 | 5459928 | 482 | 0.4 | 52 | 3.9 | 47 | <0.1 | 23.5 | 13.5 | 331 | 2.85 | 4.1 | 1.5 | 1 | 13 | <0.1 | 0.5 | <0.1 | 87 | 0.32 |
| Lacey | 13LS063 | 375626 | 5459901 | 480 | 0.6 | 42.5 | 8.3 | 52 | <0.1 | 28.7 | 13.2 | 555 | 2.9 | 4.5 | 0.7 | 0.6 | 16 | 0.1 | 0.3 | <0.1 | 90 | 0.43 |
| Lacey | 13LS064 | 375659 | 5459867 | 479 | 1.2 | 42.5 | 5.6 | 49 | 0.1 | 36.7 | 14 | 256 | 4.5 | 3.3 | 0.7 | 0.9 | 14 | 0.2 | 0.5 | <0.1 | 130 | 0.28 |
| Lacey | 13LS065 | 375685 | 5459818 | 480 | 1.3 | 17.9 | 5.4 | 38 | 0.1 | 54.4 | 15.8 | 269 | 4.19 | 1.3 | <0.5 | 0.4 | 56 | 0.2 | 0.2 | <0.1 | 144 | 0.32 |
| Lacey | 13LS066 | 375679 | 5459757 | 482 | 1 | 19.4 | 16 | 58 | <0.1 | 16.2 | 18.8 | 622 | 3.04 | 1.7 | 0.9 | 0.6 | 13 | <0.1 | 0.3 | <0.1 | 85 | 0.23 |
| Lacey | 13LS067 | 375700 | 5459722 | 482 | 1.5 | 39.4 | 7.3 | 35 | <0.1 | 18.3 | 10.7 | 228 | 3.36 | 1.6 | 1 | 1.1 | 13 | 0.1 | 0.3 | <0.1 | 97 | 0.28 |
| Lacey | 13LS068 | 375714 | 5459677 | 480 | 5.7 | 148 | 28.8 | 85 | 0.4 | 29.5 | 30 | 1044 | 13.11 | 14.8 | 5.7 | 0.6 | 12 | 0.3 | 0.4 | 0.2 | 64 | 0.14 |
| Lacey | 13LS069 | 375751 | 5459635 | 475 | 0.8 | 34.9 | 11.9 | 60 | <0.1 | 17.9 | 21.9 | 902 | 4.57 | 3 | 1 | 0.5 | 14 | 0.1 | 0.2 | 0.1 | 93 | 0.3 |

| Project | Sample No | 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 | ppm V | % Ca |
|---------|-----------|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| Lacey | 13LS070 | 375787 | 5459610 | 475 | 1.8 | 85.3 | 6.3 | 56 | <0.1 | 39.5 | 37.4 | 586 | 3.82 | 3.7 | 1.7 | 1.3 | 12 | 0.1 | 0.3 | <0.1 | 88 | 0.27 |
| Lacey | 13LS071 | 375826 | 5459578 | 475 | 0.9 | 48.2 | 5.4 | 34 | 0.2 | 29.9 | 15 | 234 | 3.21 | 1.6 | 0.8 | 1.3 | 14 | 0.1 | 0.2 | <0.1 | 89 | 0.32 |
| Lacey | 13LS072 | 375859 | 5459543 | 477 | 1.1 | 37.8 | 8.8 | 28 | <0.1 | 23.1 | 10.7 | 365 | 2.77 | 1.3 | <0.5 | 0.8 | 18 | <0.1 | 0.3 | <0.1 | 86 | 0.41 |
| Lacey | 13LS073 | 375868 | 5459487 | 472 | 0.5 | 12.6 | 12.5 | 32 | <0.1 | 10.4 | 3.8 | 361 | 1.08 | 0.9 | <0.5 | 0.2 | 27 | 0.1 | 0.3 | 0.3 | 42 | 0.45 |
| Lacey | 13LS074 | 375890 | 5459455 | 468 | 1.4 | 42.3 | 8 | 51 | <0.1 | 21.1 | 10.9 | 380 | 4 | 2.5 | 1.5 | 1.1 | 18 | <0.1 | 0.5 | 0.1 | 117 | 0.31 |
| Lacey | 13LS075 | 375937 | 5459436 | 471 | 1.4 | 72.2 | 5 | 42 | <0.1 | 46 | 21.7 | 396 | 3.84 | 3.7 | 1.2 | 1.2 | 12 | <0.1 | 0.5 | <0.1 | 109 | 0.27 |
| Lacey | 13LS076 | 375981 | 5459422 | 469 | 1 | 60.7 | 4.7 | 38 | <0.1 | 21.1 | 10.4 | 309 | 3.24 | 3.2 | 1.9 | 1.2 | 13 | <0.1 | 0.7 | <0.1 | 108 | 0.25 |
| Lacey | 13LS077 | 376042 | 5459407 | 470 | 0.6 | 74.4 | 3.8 | 45 | <0.1 | 27.6 | 13.3 | 261 | 2.97 | 4.2 | 2.4 | 1.4 | 14 | <0.1 | 0.4 | <0.1 | 85 | 0.35 |
| Lacey | 13LS078 | 376079 | 5459390 | 474 | 1.1 | 65.8 | 7.4 | 64 | 0.1 | 38 | 17.7 | 620 | 3.7 | 2.6 | <0.5 | 1.1 | 21 | 0.2 | 0.3 | <0.1 | 108 | 0.32 |
| Lacey | 13LS079 | 376122 | 5459363 | 476 | 1.1 | 71.7 | 6.2 | 82 | <0.1 | 51.1 | 17.3 | 452 | 3.55 | 3.7 | 1.7 | 1 | 13 | <0.1 | 0.4 | <0.1 | 98 | 0.31 |
| Lacey | 13LS080 | 376166 | 5459353 | 478 | 0.7 | 49.2 | 6.6 | 87 | <0.1 | 26 | 12.7 | 484 | 4.39 | 2.3 | 1.5 | 1.3 | 17 | <0.1 | 0.3 | 0.1 | 124 | 0.22 |
| Lacey | 13LS081 | 376207 | 5459314 | 482 | 1.4 | 66.8 | 13.8 | 84 | 0.1 | 28.8 | 17.1 | 613 | 4.75 | 3.3 | 0.8 | 1.4 | 18 | 0.2 | 0.5 | 0.2 | 125 | 0.28 |
| Lacey | 13LS082 | 376201 | 5459254 | 480 | 1 | 140.6 | 6.4 | 47 | <0.1 | 32.4 | 22 | 660 | 3.8 | 4.7 | 6.8 | 1.2 | 18 | <0.1 | 0.6 | <0.1 | 123 | 0.4 |
| Lacey | 13LS083 | 376208 | 5459205 | 480 | 2.3 | 92.8 | 26.7 | 102 | <0.1 | 43 | 25.1 | 491 | 4.41 | 4.4 | 1.8 | 1.3 | 19 | 0.3 | 0.8 | 0.1 | 138 | 0.39 |
| Lacey | 13LS084 | 376219 | 5459160 | 473 | 0.6 | 70.9 | 6.2 | 87 | <0.1 | 41.5 | 20 | 961 | 4.17 | 3.6 | 8.5 | 1.1 | 20 | 0.3 | 0.7 | <0.1 | 134 | 0.34 |
| Lacey | 13LS085 | 376245 | 5459120 | 466 | 0.8 | 76.3 | 2.9 | 46 | <0.1 | 33.8 | 19.7 | 409 | 3.57 | 2.9 | 3.2 | 1.1 | 15 | 0.1 | 0.4 | <0.1 | 112 | 0.35 |
| Lacey | 13LS086 | 376283 | 5459074 | 468 | 4.6 | 196 | 21.6 | 155 | 0.1 | 66.8 | 35.7 | 2513 | 6.46 | 4.3 | 6.6 | 0.8 | 23 | 0.6 | 0.7 | 0.6 | 111 | 0.4 |
| Lacey | 13LS087 | 376295 | 5459027 | 464 | 1 | 131.3 | 5 | 86 | <0.1 | 26.3 | 14.6 | 1069 | 3.45 | 3.3 | 13.5 | 1.1 | 12 | 0.2 | 0.5 | <0.1 | 102 | 0.27 |
| Lacey | 13LS088 | 376280 | 5458971 | 459 | 0.2 | 25 | 3.7 | 55 | <0.1 | 14.5 | 9.4 | 320 | 2.63 | 1.8 | 2 | 0.7 | 15 | <0.1 | 0.3 | <0.1 | 85 | 0.25 |
| Lacey | 13LS089 | 376264 | 5458926 | 454 | 1.1 | 65.3 | 6.8 | 81 | <0.1 | 37.8 | 17.4 | 801 | 3.56 | 2.9 | 2 | 1 | 15 | 0.1 | 0.6 | 0.2 | 101 | 0.3 |
| Lacey | 13LS090 | 376244 | 5458882 | 445 | 2 | 70.2 | 7.4 | 62 | <0.1 | 58 | 33.1 | 1197 | 4.98 | 3.4 | 1.5 | 1.1 | 15 | <0.1 | 0.6 | 0.2 | 121 | 0.27 |
| Lacey | 13LS091 | 376232 | 5458831 | 435 | 0.3 | 38 | 4.9 | 32 | <0.1 | 20.1 | 11.1 | 450 | 2.9 | 2.7 | 5.5 | 1 | 13 | <0.1 | 0.3 | <0.1 | 97 | 0.34 |
| Lacey | 13LS092 | 376191 | 5458793 | 437 | 0.4 | 39.9 | 4.7 | 64 | <0.1 | 21.7 | 11.8 | 365 | 3.04 | 2.6 | <0.5 | 0.9 | 13 | <0.1 | 0.3 | <0.1 | 93 | 0.26 |
| Lacey | 13LS093 | 376177 | 5458754 | 438 | 0.4 | 55.2 | 6.1 | 42 | <0.1 | 22.6 | 11.1 | 368 | 3.05 | 2.9 | 0.7 | 1.4 | 12 | <0.1 | 0.4 | <0.1 | 92 | 0.25 |
| Lacey | 13LS094 | 376195 | 5458716 | 439 | 0.3 | 33.1 | 4.8 | 54 | <0.1 | 16.9 | 13.6 | 959 | 2.99 | 2.3 | <0.5 | 0.8 | 16 | <0.1 | 0.3 | <0.1 | 91 | 0.32 |
| Lacey | 13LS095 | 376218 | 5458661 | 442 | 0.5 | 77.3 | 6 | 41 | <0.1 | 25.4 | 14.8 | 519 | 3.45 | 3.6 | <0.5 | 1.1 | 15 | <0.1 | 0.5 | <0.1 | 116 | 0.27 |
| Lacey | 13LS096 | 376225 | 5458617 | 439 | 0.3 | 70.7 | 6.1 | 53 | <0.1 | 31.9 | 17 | 732 | 3.49 | 5 | <0.5 | 0.9 | 22 | <0.1 | 0.4 | <0.1 | 113 | 0.33 |
| Lacey | 13LS097 | 376240 | 5458578 | 423 | 0.5 | 39.9 | 4.5 | 40 | <0.1 | 24.9 | 13.9 | 506 | 3.05 | 3 | 1.2 | 1.2 | 11 | <0.1 | 0.3 | <0.1 | 95 | 0.26 |
| Lacey | 13LS098 | 376266 | 5458521 | 420 | 1.3 | 41.2 | 14.5 | 50 | <0.1 | 23.4 | 19 | 629 | 3.88 | 11.9 | 3.3 | 2 | 11 | 0.1 | 0.8 | 0.2 | 83 | 0.23 |
| Lacey | 13LS099 | 376246 | 5458465 | 423 | 0.4 | 30.4 | 11.9 | 40 | <0.1 | 15.8 | 9.3 | 279 | 2.52 | 4.5 | <0.5 | 1.2 | 12 | 0.1 | 0.2 | <0.1 | 78 | 0.25 |
| Lacey | 13LS100 | 376248 | 5458411 | 428 | 0.4 | 44.8 | 5.6 | 57 | <0.1 | 22.5 | 14.4 | 653 | 3.45 | 6.4 | 5.3 | 0.9 | 13 | <0.1 | 0.4 | <0.1 | 103 | 0.25 |
| Lacey | 13LS101 | 376243 | 5458352 | 430 | 0.4 | 69.9 | 7.4 | 51 | 0.1 | 29.4 | 15.3 | 420 | 3.47 | 12.5 | 7.4 | 1.1 | 15 | <0.1 | 0.4 | <0.1 | 110 | 0.29 |
| Lacey | 13LS103 | 376210 | 5458324 | 431 | 0.2 | 23.7 | 3.5 | 24 | <0.1 | 11.8 | 6 | 169 | 2.04 | 2.2 | 0.5 | 1.1 | 10 | <0.1 | 0.1 | <0.1 | 75 | 0.24 |
| Lacey | 13LS104 | 376172 | 5458312 | 436 | 0.3 | 17.3 | 3.4 | 39 | <0.1 | 15.4 | 8.1 | 191 | 2.3 | 2.5 | 4.9 | 1.2 | 10 | <0.1 | 0.1 | <0.1 | 81 | 0.2 |
| Lacey | 13LS105 | 376125 | 5458290 | 437 | 0.7 | 48.1 | 5.2 | 51 | 0.1 | 23.3 | 13.4 | 1190 | 3.22 | 2.7 | 1.6 | 0.9 | 16 | 0.1 | 0.3 | 0.2 | 91 | 0.41 |
| Lacey | 13LS106 | 376168 | 5458270 | 443 | 0.7 | 38.1 | 4.3 | 30 | <0.1 | 16.4 | 10.5 | 262 | 3.24 | 2.2 | 2.6 | 0.9 | 12 | <0.1 | 0.3 | 0.1 | 105 | 0.24 |
| Lacey | 13LS107 | 376199 | 5458225 | 448 | 0.4 | 46.8 | 4.3 | 40 | <0.1 | 18.8 | 10.8 | 322 | 2.69 | 2.7 | 1.8 | 1 | 11 | <0.1 | 0.3 | <0.1 | 88 | 0.24 |
| Lacey | 13LS108 | 376228 | 5458177 | 451 | 0.5 | 61.2 | 4.8 | 46 | <0.1 | 16.8 | 10.3 | 283 | 3.11 | 3.2 | 1.4 | 1.2 | 11 | <0.1 | 0.2 | <0.1 | 95 | 0.21 |
| Lacey | 13LS109 | 376248 | 5458136 | 457 | 0.8 | 66 | 3.9 | 34 | <0.1 | 23.9 | 14.5 | 290 | 3.63 | 4.1 | 10 | 1.5 | 9 | 0.1 | 0.2 | <0.1 | 112 | 0.27 |
| Lacey | 13LS110 | 376277 | 5458096 | 461 | 0.5 | 31.1 | 7 | 37 | <0.1 | 16 | 9.5 | 814 | 2.56 | 2.9 | 5.9 | 1.1 | 11 | 0.1 | 0.2 | <0.1 | 79 | 0.36 |
| Lacey | 13LS111 | 376323 | 5458073 | 463 | 0.4 | 43.7 | 6.6 | 38 | 0.1 | 16.1 | 9.4 | 208 | 2.49 | 2.5 | 4.2 | 1.5 | 8 | <0.1 | 0.1 | <0.1 | 79 | 0.23 |
| Lacey | 13LS112 | 376344 | 5458028 | 466 | 0.7 | 68.1 | 6 | 50 | <0.1 | 21.3 | 14.8 | 263 | 3.51 | 4.8 | 6 | 1.2 | 10 | <0.1 | 0.2 | <0.1 | 99 | 0.26 |
| Lacey | 13LS113 | 376388 | 5457990 | 463 | 0.6 | 39 | 3.8 | 39 | <0.1 | 20.8 | 12.5 | 199 | 3.37 | 3.1 | 3.4 | 1.1 | 9 | <0.1 | 0.2 | <0.1 | 106 | 0.26 |
| Lacey | 13LS114 | 376419 | 5457960 | 466 | 0.3 | 29.1 | 3.1 | 26 | <0.1 | 15.9 | 9 | 323 | 2.41 | 2.4 | 2.2 | 1.1 | 9 | <0.1 | 0.1 | <0.1 | 78 | 0.31 |
| Lacey | 13LS115 | 376458 | 5457926 | 468 | 0.4 | 36.4 | 3 | 30 | <0.1 | 16.9 | 9.4 | 302 | 2.7 | 2.8 | 3.2 | 1.3 | 9 | <0.1 | 0.2 | <0.1 | 90 | 0.32 |
| Lacey | 13LS116 | 376486 | 5457895 | 468 | 0.5 | 34.7 | 5.2 | 29 | <0.1 | 18.6 | 10.6 | 221 | 3.4 | 2.2 | 4.8 | 0.9 | 11 | <0.1 | 0.2 | <0.1 | 114 | 0.34 |
| Lacey | 13LS117 | 376529 | 5457851 | 467 | 0.7 | 100.4 | 13.8 | 63 | <0.1 | 44.8 | 24.4 | 1357 | 4.32 | 9.1 | 8.4 | 0.9 | 21 | 0.1 | 0.6 | <0.1 | 126 | 0.82 |

| Project | Sample No | 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 | ppm V | % Ca |
|---------|-----------|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| Lacey | 13LS118 | 376600 | 5457810 | 465 | 2 | 52.4 | 4 | 34 | <0.1 | 28.6 | 13.6 | 326 | 3.34 | 2.6 | 3.9 | 1.2 | 14 | <0.1 | 0.3 | <0.1 | 110 | 0.41 |
| Lacey | 13LS119 | 376079 | 5458277 | 445 | 0.5 | 65.6 | 3.7 | 39 | <0.1 | 28.5 | 15.3 | 496 | 3.26 | 5.3 | 3.2 | 1.1 | 10 | <0.1 | 0.3 | <0.1 | 101 | 0.33 |
| Lacey | 13LS120 | 376056 | 5458235 | 446 | 0.4 | 47.8 | 3.7 | 28 | <0.1 | 18.1 | 11 | 462 | 3.05 | 3.4 | 7.5 | 1.2 | 11 | 0.1 | 0.2 | <0.1 | 96 | 0.31 |
| Lacey | 13LS121 | 376030 | 5458202 | 446 | 0.4 | 54.5 | 3.9 | 30 | <0.1 | 22.5 | 12.9 | 531 | 2.91 | 3.8 | 4.9 | 1.3 | 13 | <0.1 | 0.2 | 0.2 | 88 | 0.38 |
| Lacey | 13LS122 | 375975 | 5458199 | 446 | 0.7 | 84.9 | 8.6 | 52 | <0.1 | 33.4 | 20.4 | 1368 | 3.86 | 24.4 | 9.7 | 0.8 | 16 | 0.2 | 0.6 | <0.1 | 99 | 0.48 |
| Lacey | 13LS123 | 375927 | 5458174 | 449 | 0.8 | 63.1 | 5.1 | 42 | <0.1 | 17.3 | 15.2 | 756 | 3.69 | 3.5 | 4.4 | 0.9 | 11 | <0.1 | 0.4 | <0.1 | 98 | 0.23 |
| Lacey | 13LS124 | 375892 | 5458133 | 451 | 1.4 | 235.1 | 12.1 | 55 | 0.1 | 22.2 | 22 | 2065 | 4.62 | 10.6 | 55.2 | 1.3 | 15 | 0.4 | 1.4 | 0.3 | 101 | 0.45 |
| Lacey | 13LS125 | 375882 | 5458089 | 451 | 2.1 | 301.2 | 15.6 | 66 | 0.2 | 12.8 | 39.6 | 4608 | 6.17 | 10 | 30.9 | 1.1 | 9 | 0.2 | 2.7 | 0.2 | 129 | 0.2 |
| Lacey | 13LS126 | 375879 | 5458050 | 439 | 3.3 | 421.8 | 14.2 | 52 | 0.2 | 20.1 | 37.1 | 3149 | 5.76 | 11.2 | 44.9 | 1.3 | 11 | 0.2 | 1.8 | 0.2 | 95 | 0.27 |
| Lacey | 13LS127 | 375873 | 5457986 | 438 | 1.4 | 116.3 | 12.8 | 59 | <0.1 | 17.2 | 17.6 | 1812 | 4.37 | 4.6 | 9.5 | 0.6 | 15 | 0.5 | 0.6 | <0.1 | 92 | 0.55 |
| Lacey | 13LS128 | 375836 | 5457938 | 434 | 1 | 93.5 | 5.7 | 60 | 0.1 | 25.8 | 15.5 | 952 | 3.88 | 4.9 | 10.4 | 1 | 13 | 0.1 | 0.6 | <0.1 | 114 | 0.34 |
| Lacey | 13LS129 | 375815 | 5457907 | 431 | 1.9 | 119.3 | 12 | 197 | 0.2 | 16.5 | 21.2 | 3806 | 4.42 | 11.6 | 64.2 | 1.2 | 17 | 1.8 | 5.1 | <0.1 | 82 | 0.57 |
| Lacey | 13LS130 | 375821 | 5457864 | 428 | 3 | 172.6 | 11.3 | 155 | 0.1 | 23.5 | 26.4 | 2744 | 6.18 | 8.4 | 12.1 | 1 | 9 | 0.8 | 2.6 | <0.1 | 105 | 0.35 |
| Lacey | 13LS131 | 375802 | 5457795 | 429 | 1.2 | 47.5 | 7.8 | 147 | 0.3 | 18.1 | 15.3 | 398 | 4.36 | 4.6 | 3.7 | 0.9 | 12 | 0.5 | 0.5 | 0.1 | 125 | 0.24 |
| Lacey | 13LS132 | 375813 | 5457748 | 426 | 0.6 | 74.6 | 4.2 | 255 | 0.1 | 23 | 14 | 356 | 3.29 | 4 | 20.2 | 1.2 | 10 | 0.8 | 0.9 | <0.1 | 103 | 0.23 |
| Lacey | 13LS133 | 375817 | 5457713 | 418 | 0.8 | 99.8 | 18.9 | 46 | <0.1 | 25.5 | 14.2 | 398 | 3.39 | 8.3 | 8.3 | 1.3 | 15 | 0.2 | 0.5 | <0.1 | 109 | 0.36 |
| Lacey | 13LS134 | 375823 | 5457672 | 408 | 0.7 | 59 | 3.8 | 36 | <0.1 | 24.2 | 12.5 | 214 | 3.23 | 5.2 | 3.1 | 1.4 | 9 | <0.1 | 0.3 | <0.1 | 108 | 0.27 |
| Lacey | 13LS135 | 375799 | 5457910 | 422 | 0.9 | 63.2 | 3.8 | 42 | 0.1 | 29 | 16.8 | 224 | 3.39 | 8.4 | 3.4 | 1.2 | 10 | 0.2 | 0.4 | <0.1 | 110 | 0.26 |
| Lacey | 13LS136 | 375778 | 5457942 | 418 | 0.4 | 65.3 | 5.2 | 42 | <0.1 | 27.4 | 14 | 494 | 3.26 | 4.3 | 6.4 | 1.2 | 12 | <0.1 | 0.4 | <0.1 | 101 | 0.28 |
| Lacey | 13LS137 | 375761 | 5457989 | 418 | 0.3 | 27.1 | 3.1 | 39 | <0.1 | 14.7 | 9.2 | 201 | 2.92 | 2.2 | 1.8 | 1 | 8 | <0.1 | 0.2 | <0.1 | 101 | 0.21 |
| Lacey | 13LS138 | 375728 | 5458033 | 413 | 0.6 | 34.3 | 5.5 | 29 | <0.1 | 14.2 | 9 | 678 | 2.38 | 3.1 | 6.1 | 0.8 | 10 | 0.1 | 0.6 | <0.1 | 74 | 0.4 |
| Lacey | 13LS139 | 375695 | 5458078 | 408 | 0.4 | 41 | 3 | 39 | <0.1 | 27.6 | 12.5 | 349 | 3.26 | 3.1 | 0.8 | 0.9 | 10 | <0.1 | 0.4 | <0.1 | 110 | 0.22 |
| Lacey | 13LS140 | 375678 | 5458121 | 402 | 0.4 | 61 | 3.3 | 36 | <0.1 | 36.2 | 17.1 | 425 | 3.66 | 3.3 | 3 | 1.2 | 11 | <0.1 | 0.5 | <0.1 | 103 | 0.19 |
| Lacey | 13LS141 | 375645 | 5458164 | 395 | 0.3 | 61.2 | 47.2 | 35 | <0.1 | 26.4 | 13.2 | 464 | 3.03 | 4.2 | 4.4 | 0.8 | 12 | <0.1 | 0.8 | <0.1 | 88 | 0.2 |
| Lacey | 13LS142 | 375616 | 5458189 | 394 | 0.4 | 48.2 | 2.5 | 25 | <0.1 | 21.1 | 10.4 | 195 | 2.72 | 2.1 | 2.3 | 1.3 | 9 | <0.1 | 0.4 | <0.1 | 95 | 0.24 |
| Lacey | 13LS143 | 375570 | 5458240 | 392 | 0.4 | 65.5 | 359.7 | 44 | <0.1 | 27.9 | 12.4 | 626 | 3.44 | 5.7 | 5.7 | 0.6 | 17 | <0.1 | 3.3 | <0.1 | 93 | 0.2 |
| Lacey | 13LS144 | 375556 | 5458293 | 390 | 0.4 | 81.9 | 1122.2 | 47 | <0.1 | 39 | 17.2 | 548 | 3.73 | 5.4 | 13 | 1.2 | 19 | <0.1 | 7.7 | 0.1 | 110 | 0.28 |
| Lacey | 13LS145 | 375539 | 5458329 | 387 | 0.4 | 85.2 | 3.9 | 45 | <0.1 | 47 | 19.7 | 464 | 3.88 | 4.9 | 15.5 | 1.2 | 15 | <0.1 | 0.7 | 0.1 | 114 | 0.18 |
| Lacey | 13LS146 | 375542 | 5458379 | 383 | 0.4 | 50.1 | 3.8 | 38 | 0.1 | 27.1 | 12.9 | 272 | 3.17 | 3.5 | 2.6 | 1.1 | 10 | <0.1 | 0.5 | 0.1 | 90 | 0.18 |
| Lacey | 13LS147 | 375522 | 5458424 | 390 | 0.3 | 72.4 | 2.6 | 38 | 0.2 | 33.2 | 15.3 | 312 | 3.4 | 4.8 | 2.8 | 0.8 | 13 | <0.1 | 1 | <0.1 | 99 | 0.26 |
| Lacey | 13LS148 | 375508 | 5458475 | 387 | 0.2 | 34.8 | 4.3 | 59 | <0.1 | 22.4 | 12.4 | 536 | 2.84 | 2.3 | 0.7 | 0.8 | 9 | <0.1 | 0.3 | <0.1 | 75 | 0.17 |
| Lacey | 13LS149 | 375511 | 5458522 | 382 | 0.5 | 64.9 | 3.1 | 50 | <0.1 | 43.3 | 17.7 | 697 | 4.31 | 7.7 | 35.4 | 0.9 | 10 | <0.1 | 1.1 | <0.1 | 116 | 0.24 |
| Lacey | 13LS150 | 375535 | 5458548 | 376 | 0.6 | 77.2 | 3.1 | 33 | 0.1 | 33.4 | 15.9 | 397 | 3.55 | 6.2 | 6.8 | 1.2 | 11 | <0.1 | 1.6 | <0.1 | 100 | 0.29 |
| Lacey | 13LS152 | 375522 | 5458609 | 371 | 0.4 | 56 | 7.4 | 51 | 0.1 | 24.1 | 12.8 | 486 | 3.26 | 4.5 | 1.8 | 0.8 | 11 | 0.2 | 0.8 | <0.1 | 98 | 0.23 |
| Lacey | 13LS153 | 375470 | 5458589 | 374 | 0.3 | 80.6 | 2.6 | 36 | <0.1 | 30.4 | 14.7 | 332 | 3.15 | 4.3 | 4.3 | 0.8 | 14 | <0.1 | 0.4 | <0.1 | 90 | 0.24 |
| Lacey | 13LS154 | 375434 | 5458558 | 375 | 0.6 | 62.4 | 3.4 | 32 | 0.1 | 30.5 | 14.2 | 215 | 3.71 | 6.2 | 1.2 | 1 | 10 | <0.1 | 0.4 | <0.1 | 109 | 0.22 |
| Lacey | 13LS155 | 375401 | 5458539 | 377 | 0.5 | 64.8 | 3.7 | 36 | <0.1 | 36.3 | 13.9 | 265 | 3.51 | 7.6 | 0.6 | 0.9 | 13 | <0.1 | 0.5 | <0.1 | 102 | 0.22 |
| Lacey | 13LS156 | 375352 | 5458547 | 383 | 0.5 | 57.1 | 3.6 | 35 | <0.1 | 30.9 | 14.3 | 264 | 3.77 | 3.4 | 0.6 | 1 | 11 | <0.1 | 0.6 | <0.1 | 112 | 0.18 |
| Lacey | 13LS157 | 375294 | 5458580 | 380 | 0.7 | 54.6 | 4 | 37 | 0.1 | 36.7 | 17.1 | 267 | 4.47 | 4.6 | 2.7 | 0.9 | 14 | <0.1 | 0.7 | <0.1 | 146 | 0.22 |
| Lacey | 13LS158 | 375265 | 5458590 | 381 | 0.3 | 40.5 | 4.1 | 32 | <0.1 | 19.2 | 9.7 | 395 | 2.94 | 2.2 | 1 | 0.7 | 11 | 0.1 | 0.2 | <0.1 | 92 | 0.26 |
| Lacey | 13LS159 | 375231 | 5458627 | 382 | 0.3 | 41.9 | 4.5 | 44 | <0.1 | 28.4 | 14 | 865 | 4.03 | 2.6 | 1.9 | 1 | 12 | <0.1 | 0.4 | <0.1 | 118 | 0.32 |
| Lacey | 13LS160 | 375192 | 5458659 | 384 | 0.2 | 40.8 | 4 | 43 | <0.1 | 26.7 | 13.2 | 322 | 3.57 | 4.7 | 3.7 | 1 | 10 | <0.1 | 0.4 | <0.1 | 113 | 0.29 |
| Lacey | 13LS161 | 375160 | 5458691 | 385 | 0.3 | 30.8 | 4.7 | 49 | <0.1 | 28 | 12.4 | 293 | 3.46 | 4.4 | 1.4 | 1 | 12 | <0.1 | 0.4 | <0.1 | 99 | 0.29 |
| Lacey | 13LS162 | 375123 | 5458726 | 390 | 0.4 | 34.1 | 5.7 | 46 | 0.1 | 28.8 | 14.3 | 554 | 3.76 | 5.6 | 2 | 1.1 | 19 | <0.1 | 0.6 | <0.1 | 103 | 0.33 |
| Lacey | 13LS163 | 375076 | 5458758 | 391 | 0.4 | 58.8 | 4 | 36 | <0.1 | 23.3 | 11.3 | 301 | 3.19 | 3.8 | 4.1 | 1.3 | 10 | <0.1 | 0.5 | <0.1 | 102 | 0.21 |
| Lacey | 13LS164 | 375037 | 5458793 | 391 | 0.6 | 52 | 4.2 | 40 | <0.1 | 31.5 | 13.4 | 275 | 4.06 | 8.5 | 4.2 | 1.1 | 11 | <0.1 | 0.9 | <0.1 | 138 | 0.27 |
| Lacey | 13LS165 | 375004 | 5458825 | 392 | 0.6 | 49.6 | 4.4 | 49 | <0.1 | 29.9 | 15.1 | 558 | 3.64 | 6.1 | 4.2 | 1.2 | 13 | <0.1 | 0.7 | <0.1 | 112 | 0.33 |

| Project | Sample No | 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 | ppm V | % Ca |
|---------|-----------|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| Lacey | 13LS166 | 374973 | 5458864 | 397 | 0.6 | 41.5 | 3.4 | 39 | <0.1 | 29.1 | 13.2 | 535 | 3.49 | 5 | <0.5 | 0.9 | 12 | <0.1 | 0.8 | <0.1 | 108 | 0.38 |
| Lacey | 13LS167 | 374955 | 5458911 | 403 | 0.8 | 46.1 | 3.7 | 47 | 0.1 | 23 | 14.1 | 677 | 3.23 | 2.9 | 1.1 | 0.8 | 13 | <0.1 | 0.4 | <0.1 | 101 | 0.29 |
| Lacey | 13LS168 | 374925 | 5458953 | 412 | 0.5 | 50.2 | 5.1 | 62 | <0.1 | 30.1 | 18.7 | 1574 | 3.97 | 4.5 | 2.1 | 0.7 | 19 | <0.1 | 0.6 | <0.1 | 110 | 0.28 |
| Lacey | 13LS169 | 374926 | 5458999 | 413 | 0.8 | 35.7 | 4.5 | 30 | <0.1 | 28.9 | 16.8 | 624 | 3.91 | 5.5 | 0.8 | 0.4 | 27 | <0.1 | 0.9 | <0.1 | 122 | 0.62 |
| Lacey | 13LS170 | 374950 | 5459048 | 411 | 1.3 | 57.7 | 4.1 | 36 | 0.2 | 69.3 | 23.1 | 317 | 5.19 | 45.8 | 1.6 | 0.6 | 8 | <0.1 | 8.1 | <0.1 | 147 | 0.16 |
| Lacey | 13LS171 | 374958 | 5459094 | 417 | 0.9 | 86.4 | 4.2 | 48 | 0.2 | 37 | 18.7 | 396 | 4.41 | 12.9 | 3.2 | 1 | 12 | <0.1 | 1.1 | <0.1 | 132 | 0.27 |
| Lacey | 13LS172 | 374962 | 5459174 | 422 | 0.6 | 60.3 | 4.4 | 44 | 0.1 | 32.1 | 15.3 | 425 | 3.88 | 13.5 | 0.7 | 1 | 10 | <0.1 | 1.2 | <0.1 | 113 | 0.26 |
| Lacey | 13LS173 | 374971 | 5459214 | 423 | 0.6 | 64.2 | 4.4 | 40 | <0.1 | 29 | 13.2 | 209 | 3.52 | 11 | 1.5 | 1.4 | 7 | <0.1 | 0.7 | <0.1 | 108 | 0.2 |
| Lacey | 13LS174 | 374985 | 5459241 | 425 | 0.7 | 66.8 | 3.7 | 46 | <0.1 | 31 | 13.8 | 317 | 3.68 | 10.3 | 1.3 | 1.1 | 9 | <0.1 | 1.1 | <0.1 | 107 | 0.22 |
| Lacey | 13LS175 | 375024 | 5459266 | 425 | 0.7 | 41 | 3.8 | 37 | <0.1 | 25.9 | 13.4 | 180 | 3.35 | 5.4 | 1 | 1.1 | 8 | 0.1 | 0.6 | <0.1 | 97 | 0.22 |
| Lacey | 13LS176 | 375085 | 5459291 | 423 | 0.5 | 42.1 | 4.8 | 58 | 0.1 | 16.9 | 10.5 | 385 | 3.97 | 4.3 | <0.5 | 1 | 10 | 0.1 | 0.4 | <0.1 | 110 | 0.2 |
| Lacey | 13LS177 | 375119 | 5459309 | 424 | 0.3 | 31.3 | 4.2 | 69 | 0.1 | 25.9 | 15.4 | 877 | 3.84 | 2.7 | 1.5 | 0.6 | 12 | 0.1 | 0.5 | <0.1 | 102 | 0.35 |
| Lacey | 13LS178 | 375164 | 5459328 | 426 | 0.3 | 44.8 | 3.9 | 49 | <0.1 | 21.9 | 12.8 | 712 | 3.38 | 4.5 | 2.4 | 0.9 | 12 | <0.1 | 0.4 | <0.1 | 104 | 0.39 |
| Lacey | 13LS179 | 375161 | 5459371 | 425 | 0.4 | 38.3 | 4.3 | 62 | <0.1 | 23.6 | 15.4 | 424 | 3.62 | 2.8 | <0.5 | 0.8 | 13 | 0.1 | 0.5 | <0.1 | 101 | 0.23 |
| Lacey | 13LS180 | 375127 | 5459413 | 425 | 0.4 | 45.2 | 3.8 | 56 | 0.1 | 24.9 | 11.9 | 314 | 3.05 | 6.6 | 3.2 | 0.9 | 9 | 0.2 | 1.2 | <0.1 | 90 | 0.21 |
| Lacey | 13LS181 | 375100 | 5459453 | 424 | 0.6 | 90.5 | 3.3 | 39 | <0.1 | 43.3 | 18.4 | 345 | 4.22 | 8 | 3.7 | 0.9 | 10 | <0.1 | 1.3 | <0.1 | 106 | 0.2 |
| Lacey | 13LS182 | 375054 | 5459465 | 432 | 0.8 | 62.2 | 3.7 | 33 | <0.1 | 22 | 10.2 | 243 | 3.52 | 9.1 | 7 | 1.3 | 9 | <0.1 | 0.8 | 0.3 | 99 | 0.23 |
| Lacey | 13LS183 | 375011 | 5459457 | 430 | 0.6 | 19.2 | 4.2 | 27 | <0.1 | 14.4 | 7.8 | 159 | 3.48 | 2.7 | 3.8 | 0.6 | 8 | <0.1 | 0.3 | 0.1 | 106 | 0.21 |
| Lacey | 13LS184 | 374966 | 5459460 | 428 | 0.5 | 37.1 | 3.4 | 26 | <0.1 | 20.8 | 11.2 | 261 | 3.53 | 5 | 3.3 | 0.9 | 11 | <0.1 | 0.5 | <0.1 | 94 | 0.4 |
| Lacey | 13LS185 | 374911 | 5459472 | 433 | 0.7 | 143 | 2.3 | 63 | <0.1 | 107 | 32 | 531 | 7.31 | 21.7 | 9.4 | 0.6 | 5 | <0.1 | 4 | <0.1 | 139 | 0.08 |
| Lacey | 13LS186 | 374859 | 5459474 | 432 | 0.8 | 81.3 | 4.5 | 47 | 0.1 | 52.8 | 23.5 | 281 | 4.97 | 13.6 | 2 | 1 | 16 | <0.1 | 0.7 | <0.1 | 129 | 0.42 |
| Lacey | 13LS187 | 374509 | 5459619 | 428 | 1 | 59 | 5.1 | 64 | 0.1 | 34.1 | 15.5 | 332 | 5.06 | 4.8 | 1.7 | 1.2 | 11 | <0.1 | 0.5 | <0.1 | 132 | 0.27 |
| Lacey | 13LS188 | 374466 | 5459646 | 429 | 0.7 | 39.9 | 5.5 | 45 | <0.1 | 24.8 | 13 | 623 | 3.66 | 4.5 | 3.9 | 0.8 | 11 | <0.1 | 0.4 | <0.1 | 104 | 0.25 |
| Lacey | 13LS189 | 374447 | 5459700 | 435 | 1.1 | 130.9 | 4.7 | 60 | <0.1 | 28.4 | 17.4 | 513 | 4.63 | 5.6 | 2.1 | 1.1 | 9 | 0.1 | 0.7 | <0.1 | 119 | 0.22 |
| Lacey | 13LS190 | 374423 | 5459745 | 440 | 1 | 54.7 | 4.6 | 51 | 0.1 | 23.2 | 14.2 | 258 | 4.47 | 4.2 | 0.8 | 1 | 11 | <0.1 | 1.1 | <0.1 | 115 | 0.24 |
| Lacey | 13LS191 | 374377 | 5459782 | 444 | 0.6 | 45.4 | 5.1 | 57 | <0.1 | 23.7 | 12.9 | 403 | 4.08 | 4.4 | 6.4 | 1 | 11 | <0.1 | 0.4 | <0.1 | 113 | 0.26 |
| Lacey | 13LS192 | 374335 | 5459793 | 449 | 1.2 | 50.6 | 4.6 | 66 | 0.1 | 33.6 | 15.5 | 390 | 4.54 | 6.3 | 1.7 | 1 | 9 | <0.1 | 0.6 | <0.1 | 140 | 0.26 |
| Lacey | 13LS193 | 374314 | 5459858 | 455 | 0.9 | 63.8 | 5.1 | 50 | 0.1 | 27.7 | 13.8 | 482 | 4.55 | 9 | 5.6 | 1.2 | 9 | <0.1 | 1.8 | <0.1 | 119 | 0.25 |
| Lacey | 13LS194 | 374319 | 5459905 | 460 | 2.1 | 49.6 | 5.5 | 61 | <0.1 | 33.8 | 22.3 | 654 | 6.27 | 9.1 | 3.5 | 1.2 | 10 | <0.1 | 1.1 | <0.1 | 154 | 0.27 |
| Lacey | 13LS195 | 374323 | 5459952 | 463 | 1.5 | 61.1 | 4.5 | 41 | <0.1 | 30.8 | 14.7 | 290 | 5.16 | 10 | 1.2 | 1.1 | 9 | <0.1 | 0.8 | <0.1 | 151 | 0.27 |
| Lacey | 13LS196 | 374294 | 5459987 | 465 | 1.4 | 42.8 | 6.2 | 56 | <0.1 | 27.3 | 13.3 | 339 | 4.63 | 4.1 | <0.5 | 0.8 | 9 | <0.1 | 0.4 | <0.1 | 132 | 0.22 |
| Lacey | 13LS197 | 374281 | 5460042 | 468 | 0.9 | 45.5 | 5.4 | 58 | 0.1 | 26.4 | 14.3 | 481 | 4.28 | 5.5 | 3.4 | 0.8 | 9 | <0.1 | 0.4 | <0.1 | 121 | 0.25 |
| Lacey | 13LS198 | 374304 | 5460086 | 468 | 1 | 76.1 | 4.6 | 56 | 0.1 | 37 | 16.7 | 296 | 5.19 | 8.5 | 2.1 | 1.3 | 9 | <0.1 | 0.7 | <0.1 | 162 | 0.25 |
| Lacey | 13LS199 | 374309 | 5460141 | 467 | 0.4 | 69 | 4.5 | 46 | <0.1 | 39.6 | 16 | 391 | 5.01 | 9 | 3.5 | 1.5 | 9 | <0.1 | 0.9 | <0.1 | 143 | 0.27 |
| Lacey | 13LS200 | 374307 | 5460192 | 463 | 0.5 | 60.8 | 4.4 | 62 | 0.1 | 36 | 15.4 | 363 | 4.39 | 4.8 | 5.4 | 1 | 8 | <0.1 | 0.5 | <0.1 | 105 | 0.21 |
| Lacey | 13LS201 | 374285 | 5460235 | 463 | 0.5 | 29.5 | 5.7 | 48 | <0.1 | 20.7 | 12 | 295 | 4.1 | 4.4 | 1.8 | 0.9 | 11 | <0.1 | 0.4 | <0.1 | 118 | 0.28 |
| Lacey | 13LS202 | 374253 | 5460259 | 458 | 0.8 | 88.2 | 7.6 | 57 | <0.1 | 34.1 | 17.2 | 430 | 5.15 | 8.2 | 4.6 | 1.2 | 35 | <0.1 | 1.4 | <0.1 | 157 | 0.28 |
| Lacey | 13LS204 | 374238 | 5460310 | 455 | 0.5 | 61.6 | 4 | 56 | <0.1 | 33.9 | 15.6 | 474 | 4.55 | 8.4 | 2.5 | 1.1 | 9 | <0.1 | 0.5 | <0.1 | 139 | 0.3 |
| Lacey | 13LS205 | 374217 | 5460359 | 454 | 0.7 | 28.4 | 5.5 | 68 | <0.1 | 33.2 | 16.8 | 253 | 5.21 | 5 | 2.2 | 0.7 | 9 | <0.1 | 0.5 | <0.1 | 144 | 0.22 |
| Lacey | 13LS206 | 374194 | 5460406 | 453 | 0.5 | 77.9 | 6.2 | 66 | <0.1 | 102.6 | 37.3 | 1734 | 7.91 | 103.6 | 2.5 | 1 | 8 | <0.1 | 21.4 | <0.1 | 186 | 0.19 |
| Lacey | 13LS207 | 374153 | 5460434 | 452 | 0.4 | 87.2 | 6 | 66 | <0.1 | 76.4 | 29.3 | 932 | 5.85 | 57 | 4.1 | 0.9 | 11 | 0.2 | 12.6 | <0.1 | 153 | 0.35 |
| Lacey | 13LS208 | 374112 | 5460467 | 448 | 0.4 | 69.2 | 6.4 | 53 | 0.1 | 47.3 | 22.6 | 972 | 4.9 | 11 | 3.6 | 1.2 | 14 | 0.2 | 2.7 | <0.1 | 130 | 0.4 |
| Lacey | 13LS209 | 374083 | 5460509 | 443 | 0.2 | 56.6 | 7.3 | 51 | <0.1 | 43.8 | 23.1 | 1020 | 5.04 | 8.5 | 3.8 | 0.9 | 14 | <0.1 | 2.1 | <0.1 | 140 | 0.37 |
| Lacey | 13LS210 | 374038 | 5460540 | 434 | 0.5 | 57.4 | 5.8 | 57 | <0.1 | 46.1 | 22.2 | 540 | 5.71 | 30.2 | 4 | 1.1 | 11 | <0.1 | 7.4 | <0.1 | 148 | 0.31 |
| Lacey | 13LS211 | 374010 | 5460583 | 431 | 0.2 | 65 | 3.5 | 51 | <0.1 | 56.1 | 22 | 598 | 5.2 | 19.2 | 6 | 1.2 | 14 | <0.1 | 5 | <0.1 | 125 | 0.43 |
| Lacey | 13LS212 | 373997 | 5460627 | 426 | 0.6 | 76.3 | 6.5 | 73 | 0.1 | 63 | 26.3 | 897 | 6.65 | 44.5 | 3.5 | 1.1 | 10 | <0.1 | 10.1 | <0.1 | 166 | 0.25 |
| Lacey | 13LS213 | 373966 | 5460666 | 427 | 0.6 | 70.7 | 9.8 | 55 | <0.1 | 42.7 | 23.2 | 895 | 4.93 | 28.8 | 1.6 | 0.9 | 11 | <0.1 | 6.2 | <0.1 | 130 | 0.3 |

| Project | Sample No | 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 | ppm V | % Ca |
|-----------|--------------|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| Limestone | AP 38 | 378517 | 5440676 | 868 | 0.6 | 258.8 | 2.4 | 88 | 0.5 | 66.7 | 43 | 876 | 8.38 | 19 | 7.4 | 1.1 | 12 | 0.1 | 0.7 | <0.1 | 220 | 0.23 |
| Limestone | AP 39 | 378533 | 5440619 | 886 | 0.9 | 183.3 | 2.4 | 89 | 0.4 | 45.5 | 31.2 | 739 | 10.87 | 74 | 13.3 | 1.1 | 9 | 0.1 | 1.2 | <0.1 | 279 | 0.12 |
| Limestone | AP 40 | 378555 | 5440588 | 874 | 1 | 186.6 | 3.5 | 85 | 0.3 | 53.8 | 27.1 | 590 | 10.3 | 27 | 8.5 | 1.2 | 15 | 0.1 | 0.9 | <0.1 | 312 | 0.18 |
| Limestone | AP 41 | 378600 | 5440560 | 873 | 1.2 | 148.7 | 2.7 | 48 | 0.6 | 23 | 13.5 | 413 | 9.94 | 5.5 | 14.8 | 0.9 | 10 | 0.2 | 0.7 | <0.1 | 262 | 0.16 |
| Limestone | AP 42 | 378632 | 5440528 | 834 | 0.8 | 138.5 | 4.2 | 61 | 0.3 | 31.6 | 23.4 | 756 | 11.77 | 6.2 | 5.3 | 0.9 | 33 | 0.1 | 0.9 | <0.1 | 383 | 0.18 |
| Limestone | AP 43 | 378666 | 5440486 | 857 | 0.8 | 258 | 2.4 | 74 | 0.7 | 57.3 | 49 | 2159 | 7.48 | 15.3 | 24.3 | 0.7 | 16 | 0.2 | 0.8 | <0.1 | 213 | 0.33 |
| Limestone | AP 44 | 378709 | 5440442 | 870 | 0.8 | 213.3 | 4 | 90 | 0.6 | 46.5 | 39.6 | 3549 | 8.24 | 20.6 | 6.5 | 0.3 | 30 | 0.3 | 1.2 | <0.1 | 218 | 1.19 |
| Limestone | AP 45 | 378757 | 5440449 | 864 | 1.1 | 263.6 | 7.5 | 79 | 0.3 | 57.1 | 42.9 | 1942 | 7.35 | 36 | 31.4 | 0.4 | 26 | 0.2 | 0.8 | <0.1 | 200 | 0.94 |
| Limestone | LRS AP 46 | 378794 | 5440465 | 840 | 0.7 | 134 | 1.8 | 77 | 0.2 | 52 | 23.6 | 525 | 8.06 | 10.5 | 5.8 | 0.6 | 8 | <0.1 | 0.7 | <0.1 | 241 | 0.16 |
| Limestone | LRS AP 47 | 378843 | 5440484 | 831 | 0.8 | 194.2 | 2.2 | 80 | 0.2 | 58.1 | 40.1 | 3388 | 7.13 | 10.1 | 13.7 | 0.2 | 23 | 0.2 | 0.6 | <0.1 | 243 | 0.96 |
| Limestone | LRS AP 48 | 378884 | 5440497 | 844 | 0.8 | 108.8 | 2.2 | 63 | 0.3 | 30 | 15.9 | 526 | 9 | 11.1 | 11.6 | 0.7 | 7 | 0.1 | 0.7 | <0.1 | 336 | 0.11 |
| Limestone | LRS AP 49 | 378932 | 5440507 | 825 | 0.9 | 134.4 | 1.3 | 66 | 0.5 | 57.4 | 32.7 | 795 | 6.41 | 8.7 | 6.1 | 0.4 | 13 | 0.2 | 0.5 | <0.1 | 173 | 0.32 |
| Limestone | LRS AP 50 | 378999 | 5440521 | 819 | 0.9 | 103.2 | 2.7 | 54 | 0.6 | 27.9 | 15.2 | 495 | 10.56 | 5.1 | 3.8 | 0.7 | 7 | 0.1 | 0.7 | <0.1 | 456 | 0.13 |
| Limestone | LRS AP 51 | 379027 | 5440557 | 825 | 0.8 | 87.3 | 2.8 | 66 | 0.4 | 44 | 20.8 | 504 | 5.64 | 11.4 | 5.1 | 0.7 | 6 | <0.1 | 1 | <0.1 | 173 | 0.24 |
| Limestone | LRS AP 52 | 379064 | 5440599 | 831 | 1.2 | 95.4 | 3.9 | 77 | 0.4 | 47 | 20.7 | 633 | 7.07 | 18.3 | 6.8 | 0.8 | 6 | 0.1 | 1.2 | <0.1 | 203 | 0.2 |
| Limestone | LRS AP 53 | 379101 | 5440623 | 821 | 3.6 | 45.6 | 6.8 | 37 | 0.2 | 4.7 | 10.7 | 221 | 8.82 | 33 | 32.9 | 0.5 | 2 | <0.1 | 2 | 0.2 | 95 | 0.02 |
| Limestone | LRS AP 54 | 379136 | 5440666 | 807 | 0.7 | 65.4 | 3.2 | 40 | 0.5 | 16.1 | 10.8 | 523 | 9.23 | 6.5 | 7.1 | 0.7 | 6 | <0.1 | 0.6 | <0.1 | 348 | 0.08 |
| Limestone | LRS AP 55 | 379166 | 5440696 | 803 | 0.7 | 215.5 | 2.2 | 86 | 0.3 | 67.5 | 37.5 | 1627 | 9.42 | 9.1 | 9.1 | 0.6 | 10 | 0.2 | 0.6 | <0.1 | 300 | 0.25 |
| Limestone | LRS 12 LH-47 | 377035 | 5441209 | 825 | 0.6 | 91.2 | 6.5 | 41 | 0.1 | 24.6 | 15.4 | 517 | 4.84 | 4.6 | 16 | 0.7 | 26 | 0.2 | 0.6 | 0.2 | 196 | 0.43 |
| Limestone | LRS 12 LH-48 | 377089 | 5441214 | 823 | 0.9 | 116.9 | 4 | 92 | 0.4 | 44.5 | 41.8 | 943 | 3.98 | 4.3 | 10.6 | 0.5 | 23 | 0.6 | 0.6 | 0.1 | 151 | 0.62 |
| Limestone | LRS 12 LH-49 | 377139 | 5441231 | 823 | 1 | 108.3 | 3.9 | 49 | 0.1 | 30.6 | 15.8 | 355 | 4.81 | 5.3 | 15.8 | 0.8 | 19 | <0.1 | 0.6 | 0.1 | 156 | 0.25 |
| Limestone | LRS 12 LH-50 | 377188 | 5441248 | 824 | 0.9 | 30.3 | 7.2 | 27 | <0.1 | 16.5 | 9.5 | 271 | 6.53 | 3 | 8.8 | 0.4 | 26 | <0.1 | 0.9 | 0.2 | 297 | 0.32 |
| Limestone | LRS 12 LH-51 | 377240 | 5441221 | 823 | 0.4 | 33.6 | 8.4 | 23 | 0.1 | 13.8 | 8.3 | 404 | 4.27 | 1.6 | 23.9 | 0.3 | 18 | <0.1 | 0.4 | 0.1 | 203 | 0.31 |
| Limestone | LRS 12 LH-52 | 377280 | 5441185 | 818 | 0.5 | 37.7 | 3.6 | 42 | 0.1 | 19.1 | 9.6 | 245 | 5.09 | 2.3 | 32.3 | 0.4 | 17 | <0.1 | 0.4 | <0.1 | 208 | 0.25 |
| Limestone | LRS 12 LH-53 | 377305 | 5441216 | 815 | 0.7 | 369.7 | 5.9 | 60 | 0.3 | 49.1 | 32.9 | 1089 | 5.62 | 16.5 | 9.3 | 0.3 | 30 | 0.2 | 1.4 | 0.3 | 182 | 0.84 |
| Limestone | LRS 12 LH-54 | 377268 | 5441262 | 813 | 0.4 | 47.4 | 3.4 | 30 | 0.1 | 15.4 | 9.9 | 188 | 4.77 | 3.4 | 9.2 | 0.3 | 16 | 0.1 | 0.5 | <0.1 | 218 | 0.25 |
| Limestone | LRS 12 LH-55 | 377230 | 5441300 | 812 | 0.6 | 74.7 | 3.4 | 55 | 0.2 | 21.8 | 12.8 | 287 | 5.23 | 4.1 | 10.8 | 0.5 | 22 | <0.1 | 1.7 | 0.2 | 193 | 0.25 |
| Limestone | LRS 12 LH-56 | 377180 | 5441326 | 808 | 0.8 | 83.2 | 3.1 | 42 | 0.2 | 25.2 | 15.3 | 474 | 5.84 | 4.5 | 58 | 0.5 | 19 | 0.2 | 0.4 | <0.1 | 217 | 0.29 |
| Limestone | LRS 12 LH-57 | 377127 | 5441344 | 807 | 0.3 | 228.8 | 4.1 | 46 | 0.3 | 42.8 | 46.8 | 1972 | 3.74 | 2.8 | 9.4 | 0.2 | 102 | 0.4 | 0.4 | <0.1 | 185 | 1.58 |
| Limestone | LRS 12 LH-58 | 377081 | 5441358 | 804 | 0.7 | 127.3 | 3 | 65 | 0.2 | 47.4 | 27.5 | 908 | 5.03 | 3.7 | 18.7 | 0.4 | 19 | 0.1 | 0.5 | <0.1 | 173 | 0.43 |
| Limestone | LRS 12 LH-59 | 377034 | 5441388 | 798 | 0.7 | 317.5 | 6.1 | 59 | 0.7 | 52.2 | 60.3 | 1398 | 5.81 | 14.4 | 23.9 | 0.3 | 35 | 0.3 | 0.5 | 0.1 | 202 | 0.81 |
| Limestone | LRS 12 LH 61 | 376980 | 5441391 | 790 | 1.1 | 143 | 4 | 47 | 0.2 | 28.6 | 29 | 1464 | 6.07 | 5 | 56.7 | 0.4 | 21 | 0.3 | 0.5 | <0.1 | 225 | 1 |
| Limestone | LRS 12 LH 62 | 376933 | 5441397 | 784 | 0.8 | 231.4 | 5.3 | 34 | 0.6 | 22.2 | 13 | 317 | 6.62 | 4.7 | 130.5 | 0.3 | 23 | <0.1 | 0.5 | 0.2 | 235 | 0.25 |
| Limestone | LRS 12 LH 63 | 376911 | 5441462 | 783 | 0.9 | 85.7 | 3.1 | 47 | 0.2 | 27 | 17.7 | 641 | 5.97 | 5.8 | 11 | 0.6 | 14 | <0.1 | 0.5 | <0.1 | 178 | 0.21 |
| Limestone | LRS 12 LH 64 | 376866 | 5441490 | 779 | 0.6 | 43.3 | 2.7 | 40 | <0.1 | 47.6 | 21.8 | 799 | 4.36 | 6.1 | 16.9 | 0.8 | 16 | <0.1 | 0.7 | <0.1 | 118 | 0.48 |
| Limestone | LRS 12 LH 65 | 376827 | 5441501 | 774 | 1.2 | 44.5 | 3.3 | 62 | 0.1 | 25.6 | 26.5 | 1249 | 4.52 | 2.8 | 8.8 | 0.3 | 21 | 0.2 | 0.4 | <0.1 | 163 | 0.52 |
| Limestone | LRS 12 LH 66 | 376808 | 5441585 | 765 | 0.6 | 20 | 4.3 | 22 | <0.1 | 12.4 | 7.1 | 196 | 4.35 | 1.9 | 10.3 | 0.3 | 21 | <0.1 | 0.4 | <0.1 | 182 | 0.33 |
| Limestone | LRS 12 LH 67 | 376830 | 5441606 | 758 | 1.1 | 113.4 | 2.7 | 55 | <0.1 | 34.3 | 16.6 | 319 | 6.13 | 6.2 | 18.1 | 0.8 | 15 | <0.1 | 0.5 | <0.1 | 226 | 0.23 |
| Limestone | LRS 12 LH 68 | 376875 | 5441610 | 752 | 0.8 | 124.2 | 15.3 | 45 | 0.1 | 31.1 | 21.3 | 899 | 4.68 | 3.9 | 14.6 | 0.5 | 21 | <0.1 | 0.3 | <0.1 | 171 | 0.68 |
| Limestone | LRS 12 LH 69 | 376923 | 5441634 | 743 | 0.8 | 107.4 | 2 | 43 | 0.2 | 43.9 | 17.2 | 384 | 4.52 | 5.2 | 45.6 | 0.8 | 16 | <0.1 | 0.4 | <0.1 | 144 | 0.39 |
| Limestone | LRS 12 LH 70 | 376965 | 5441677 | 734 | 0.9 | 111.5 | 2.4 | 32 | <0.1 | 28.8 | 12.1 | 244 | 6.92 | 5.4 | 19.4 | 0.8 | 11 | <0.1 | 0.4 | <0.1 | 188 | 0.21 |
| Limestone | LRS 12 LH 71 | 377010 | 5441653 | 727 | 1.4 | 201.4 | 2.7 | 63 | 0.2 | 46.4 | 27.9 | 2291 | 6.35 | 6.7 | 17.9 | 0.6 | 15 | 0.2 | 0.5 | <0.1 | 253 | 0.28 |
| Limestone | LRS 12 LH 72 | 377010 | 5441600 | 724 | 0.6 | 62.7 | 2.6 | 41 | <0.1 | 33.4 | 16.4 | 388 | 4.46 | 5.9 | 22.7 | 0.7 | 18 | <0.1 | 0.4 | <0.1 | 144 | 0.3 |
| Limestone | LRS 12 LH 74 | 377050 | 5441595 | 722 | 0.4 | 71.4 | 2 | 43 | <0.1 | 34.7 | 20.4 | 590 | 4.33 | 5.8 | 20.9 | 0.5 | 19 | <0.1 | 0.5 | <0.1 | 148 | 0.42 |
| Limestone | LRS 12 LH 76 | 377130 | 5441584 | 722 | 0.9 | 55 | 2.4 | 40 | <0.1 | 25.6 | 13 | 310 | 5.39 | 3.4 | 9.2 | 0.4 | 15 | <0.1 | 0.5 | <0.1 | 210 | 0.2 |
| Limestone | LRS 12 LH 77 | 377153 | 5441578 | 723 | 0.7 | 76.8 | 2.5 | 46 | 0.2 | 27.9 | 15.1 | 347 | 4.96 | 4.6 | 12.1 | 0.6 | 14 | <0.1 | 0.6 | <0.1 | 174 | 0.21 |
| Limestone | LRS 12 LH 78 | 377264 | 5441565 | 729 | 0.6 | 84.6 | 2.2 | 53 | 0.1 | 43.7 | 21 | 440 | 4.81 | 5.4 | 24.8 | 0.5 | 15 | <0.1 | 0.5 | <0.1 | 161 | 0.26 |

| Project | Sample No | 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 | ppm V | % Ca |
|-----------|--------------|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| Limestone | LRS 12 LH 79 | 377318 | 5441555 | 731 | 0.6 | 82.5 | 2.3 | 52 | 0.1 | 36.9 | 17.5 | 381 | 5.14 | 5.3 | 13.1 | 0.7 | 17 | <0.1 | 0.5 | <0.1 | 182 | 0.2 |
| Limestone | LRS 12 LH 80 | 377350 | 5441548 | 730 | 1.2 | 104.4 | 1.5 | 32 | 0.2 | 24.7 | 13 | 270 | 4.48 | 5.1 | 20.6 | 1.1 | 9 | <0.1 | 0.3 | <0.1 | 114 | 0.16 |
| Limestone | LRS 12 LH 81 | 377416 | 5441532 | 722 | 0.5 | 51.8 | 2.9 | 74 | 0.1 | 37 | 22.5 | 379 | 5.51 | 3.3 | 37.4 | 0.6 | 19 | <0.1 | 0.4 | <0.1 | 201 | 0.25 |
| Limestone | LRS 12 LH 82 | 377452 | 5441545 | 718 | 0.7 | 109.2 | 3 | 53 | 0.1 | 32.3 | 18.5 | 535 | 4.57 | 3 | 7.2 | 0.4 | 22 | <0.1 | 0.4 | <0.1 | 187 | 0.36 |
| Limestone | LRS 12 LH 83 | 377514 | 5441508 | 719 | 1 | 112.4 | 5.9 | 28 | 0.1 | 15.3 | 8.8 | 403 | 6.33 | 3.3 | 4 | 0.4 | 13 | <0.1 | 0.4 | <0.1 | 267 | 0.19 |
| Limestone | | 377608 | 5441505 | 720 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Limestone | LRS 12 LH 84 | 377668 | 5441511 | 707 | 1 | 120.5 | 3.6 | 38 | <0.1 | 35 | 22.5 | 927 | 5.4 | 2.8 | 16.7 | 0.4 | 24 | <0.1 | 0.4 | <0.1 | 292 | 0.74 |
| Limestone | LH 84 | 377723 | 5441448 | 694 | 1 | 209.8 | 2.9 | 68 | 0.1 | 66.3 | 23.5 | 514 | 5.99 | 5.4 | 11.6 | 0.8 | 18 | <0.1 | 0.5 | <0.1 | 245 | 0.24 |
| Limestone | LH 85 | 377771 | 5441425 | 680 | 1.2 | 87.9 | 5 | 54 | 0.2 | 38.9 | 19.4 | 578 | 5.7 | 4.1 | 10.7 | 0.5 | 21 | <0.1 | 0.4 | <0.1 | 233 | 0.44 |
| Limestone | LH 86 | 377800 | 5441496 | 665 | 0.9 | 111.6 | 3.9 | 62 | 0.1 | 52.5 | 25.3 | 716 | 6.14 | 4.7 | 22.8 | 0.5 | 19 | <0.1 | 0.5 | <0.1 | 236 | 0.5 |
| Limestone | LH 87 | 377802 | 5441552 | 656 | 0.8 | 60.8 | 3.6 | 48 | <0.1 | 42.5 | 18.1 | 566 | 4.86 | 4.7 | 9.1 | 0.5 | 17 | <0.1 | 0.5 | <0.1 | 182 | 0.35 |
| Limestone | LH 88 | 377807 | 5441662 | 645 | 1.2 | 80.5 | 3.2 | 38 | <0.1 | 30.2 | 17.1 | 509 | 5.13 | 5.2 | 26.6 | 0.6 | 19 | <0.1 | 0.4 | <0.1 | 201 | 0.37 |
| Limestone | LRS 12 RP 01 | 379499 | 5440970 | 614 | 1.7 | 111.5 | 7.7 | 67 | 0.2 | 35.9 | 27.2 | 1127 | 5.3 | 30.9 | 18.6 | 0.6 | 26 | 0.2 | 1.5 | 0.2 | 155 | 0.57 |
| Limestone | LRS 12 RP 02 | 379417 | 5440976 | 595 | 1.2 | 73.6 | 4.3 | 59 | 0.2 | 20.1 | 25.7 | 1070 | 5.47 | 9.5 | 129.3 | 0.9 | 14 | 0.2 | 0.7 | 0.2 | 141 | 0.2 |
| Limestone | LRS 12 RP 03 | 379355 | 5441007 | 590 | 1.4 | 256.1 | 5.4 | 85 | 0.1 | 52.7 | 36.4 | 1849 | 7 | 9 | 20.3 | 0.8 | 19 | 0.3 | 1 | <0.1 | 186 | 0.36 |
| Limestone | LRS 12 RP 04 | 379315 | 5441026 | 590 | 0.9 | 154.2 | 4.2 | 48 | 0.2 | 29.2 | 29.4 | 864 | 4.76 | 13.8 | 44 | 1 | 17 | 0.4 | 1.1 | 0.1 | 111 | 0.44 |
| Limestone | LRS 12 RP 05 | 379268 | 5441058 | 591 | 1 | 69.9 | 4 | 45 | <0.1 | 16.3 | 14.2 | 492 | 5.08 | 6.3 | 25.5 | 1.1 | 17 | 0.1 | 0.7 | 0.1 | 132 | 0.18 |
| Limestone | LRS 12 RP 06 | 379226 | 5441086 | 588 | 0.4 | 31.2 | 4.2 | 28 | 0.2 | 8.6 | 7.9 | 259 | 5.39 | 6 | 46.8 | 0.7 | 13 | <0.1 | 0.7 | 0.6 | 162 | 0.12 |
| Limestone | LRS 12 RP 07 | 379162 | 5441093 | 580 | 0.9 | 151.6 | 7.2 | 71 | 0.3 | 30.6 | 30.3 | 2849 | 6.12 | 26.1 | 20.8 | 0.3 | 17 | 0.2 | 1.3 | 0.1 | 157 | 0.58 |
| Limestone | LRS 12 RP 08 | 379097 | 5441106 | 582 | 0.9 | 68.4 | 4.1 | 43 | 0.6 | 18.3 | 14.7 | 651 | 9.21 | 17.9 | 4.7 | 0.4 | 8 | 0.1 | 1 | 0.1 | 226 | 0.12 |
| Limestone | LRS 12 RP 09 | 379041 | 5441118 | 587 | 1.4 | 236.7 | 5.7 | 87 | 0.4 | 49.9 | 37.6 | 2595 | 7.44 | 29.9 | 22.5 | 0.6 | 11 | 0.1 | 1.4 | 0.1 | 199 | 0.13 |
| Limestone | LRS 12 RP 10 | 378998 | 5441130 | 588 | 0.9 | 172.6 | 3.2 | 78 | 0.2 | 46.3 | 23.4 | 512 | 7 | 29.2 | 2.3 | 0.9 | 14 | 0.1 | 0.8 | <0.1 | 203 | 0.17 |
| Limestone | LRS 12 RP 11 | 378945 | 5441144 | 588 | 1.3 | 81.4 | 4.6 | 47 | 0.1 | 19.3 | 14.7 | 450 | 5.04 | 10.3 | 173.4 | 1 | 19 | <0.1 | 1 | 0.6 | 115 | 0.18 |
| Limestone | LRS 12 RP 12 | 378892 | 5441148 | 588 | 1 | 121.7 | 2.9 | 60 | 0.1 | 24.3 | 15.8 | 423 | 8.8 | 21.2 | 37.6 | 0.9 | 11 | <0.1 | 1.1 | 0.1 | 292 | 0.13 |
| Limestone | LRS 12 RP 13 | 378842 | 5441167 | 587 | 0.5 | 100.6 | 2.8 | 48 | 0.3 | 22.5 | 17.6 | 616 | 7.72 | 14.8 | 5.7 | 0.9 | 14 | 0.2 | 0.5 | <0.1 | 226 | 0.16 |
| Limestone | LRS 12 RP 14 | 378793 | 5441184 | 586 | 1.1 | 113.6 | 8.7 | 70 | 0.3 | 37.1 | 27.3 | 2383 | 4.75 | 32.9 | 7.4 | 0.1 | 18 | 0.2 | 0.7 | <0.1 | 141 | 0.47 |
| Limestone | LRS 12 RP 15 | 378739 | 5441211 | 586 | 0.6 | 107.7 | 5 | 52 | 0.2 | 25.7 | 31.8 | 1395 | 4.97 | 22.6 | 122.7 | 0.8 | 25 | 0.2 | 1.1 | 1 | 128 | 0.8 |
| Limestone | LRS 12 RP 16 | 378689 | 5441237 | 584 | 4.5 | 147.6 | 7.9 | 97 | 1 | 38.6 | 57 | 731 | 6.66 | 54.2 | 9.5 | 1.4 | 14 | 0.4 | 1.4 | 0.2 | 183 | 0.16 |
| Limestone | LRS 12 RP 17 | 378647 | 5441264 | 581 | 1.7 | 75.7 | 5 | 76 | 0.4 | 15.4 | 22.1 | 2565 | 5.71 | 18.2 | 11.9 | 0.3 | 26 | 0.3 | 0.7 | 0.2 | 188 | 0.7 |
| Limestone | LRS 12 RP 18 | 378595 | 5441290 | 581 | 0.5 | 58.3 | 4.2 | 31 | 0.4 | 12.7 | 10.2 | 268 | 5.39 | 10.3 | 10.7 | 1.3 | 6 | <0.1 | 0.6 | <0.1 | 79 | 0.07 |
| Limestone | LRS 12 RP 19 | 378553 | 5441305 | 581 | 1.8 | 74.7 | 11.9 | 86 | 0.5 | 34.3 | 23.6 | 1397 | 5.05 | 40.5 | 18 | 0.7 | 14 | 0.3 | 2.6 | <0.1 | 111 | 0.25 |
| Limestone | LRS 12 RP 20 | 378504 | 5441307 | 582 | 0.6 | 172.3 | 5.3 | 64 | 1.2 | 36.6 | 36.6 | 2133 | 5.26 | 116.4 | 73.4 | 0.8 | 25 | 0.5 | 1.5 | 0.1 | 135 | 0.71 |
| Limestone | LRS 12 RP 21 | 378455 | 5441324 | 585 | 1.5 | 343.5 | 7.9 | 106 | 1 | 40.8 | 46.2 | 3994 | 4.71 | 55.1 | 17.1 | 0.6 | 22 | 1.8 | 0.7 | 0.1 | 139 | 0.83 |
| Limestone | LRS 12 RP 22 | 378402 | 5441329 | 607 | 0.8 | 136.1 | 3.7 | 57 | 0.9 | 29.2 | 34.3 | 689 | 4.55 | 161 | 70.6 | 1.3 | 29 | 0.4 | 0.9 | 0.1 | 125 | 0.7 |
| Limestone | LRS 12 RP 23 | 378358 | 5441345 | 609 | 0.9 | 155.1 | 3.4 | 58 | 0.5 | 41.7 | 45.7 | 1040 | 4.86 | 44.6 | 47.9 | 0.7 | 23 | 0.3 | 0.7 | <0.1 | 132 | 0.64 |
| Limestone | LRS 12 RP 24 | 378304 | 5441363 | 607 | 0.5 | 71.7 | 3.1 | 61 | 0.2 | 22.1 | 14.7 | 364 | 5.54 | 8.3 | 12.3 | 1.1 | 18 | <0.1 | 0.6 | <0.1 | 149 | 0.16 |
| Limestone | LRS 12 RP 25 | 378262 | 5441371 | 599 | 0.7 | 162.2 | 3.9 | 80 | 0.3 | 48.9 | 33.2 | 695 | 6.86 | 12.2 | 9.7 | 0.8 | 24 | <0.1 | 0.9 | 0.4 | 188 | 0.47 |
| Limestone | LRS 12 RP 26 | 378201 | 5441383 | 595 | 2.6 | 191.8 | 11 | 98 | 0.6 | 48.8 | 49 | 1351 | 7.26 | 33.9 | 13.4 | 0.6 | 19 | 0.7 | 1 | 0.1 | 221 | 0.5 |
| Limestone | LRS 12 RP 27 | 378161 | 5441415 | 606 | 0.5 | 288.4 | 2.3 | 85 | 0.3 | 72.5 | 46.2 | 1263 | 9.14 | 7.5 | 15 | 0.6 | 25 | 0.2 | 0.5 | <0.1 | 271 | 0.51 |
| Limestone | LRS 12 RP 28 | 378123 | 5441434 | 608 | 0.6 | 305.7 | 3.8 | 89 | 0.3 | 67.4 | 42.3 | 1743 | 9.02 | 6.7 | 2.6 | 0.5 | 29 | 0.3 | 0.7 | <0.1 | 269 | 0.83 |
| Limestone | LRS 12 RP 29 | 378062 | 5441435 | 607 | 0.4 | 265.4 | 2.5 | 83 | 0.3 | 57 | 36.2 | 994 | 10.57 | 6.3 | 3.2 | 0.6 | 24 | <0.1 | 0.7 | <0.1 | 336 | 0.36 |
| Limestone | LRS 12 RP 30 | 378020 | 5441444 | 609 | 2 | 163.8 | 2.7 | 65 | 0.4 | 46.2 | 25.2 | 432 | 9.88 | 8.5 | 3.1 | 0.9 | 16 | 0.2 | 0.5 | <0.1 | 279 | 0.28 |
| Limestone | LRS 12 RP 31 | 377981 | 5441481 | 611 | 0.3 | 213.4 | 3.3 | 73 | 0.4 | 64.8 | 32.8 | 612 | 6.49 | 8.8 | 4.5 | 1 | 24 | 0.2 | 0.6 | <0.1 | 230 | 0.34 |
| Limestone | LRS 12 RP 32 | 377935 | 5441516 | 614 | 0.5 | 221.3 | 2.6 | 67 | <0.1 | 53 | 30.4 | 810 | 7.02 | 3.7 | 8.4 | 0.5 | 44 | 0.5 | 0.7 | <0.1 | 248 | 0.73 |
| Limestone | LRS 12 RP 33 | 377936 | 5441557 | 620 | 0.6 | 197.9 | 3 | 63 | <0.1 | 57.6 | 32.7 | 1244 | 5.55 | 7.2 | 4.6 | 0.6 | 32 | <0.1 | 0.5 | <0.1 | 176 | 0.76 |
| Limestone | LRS 12 RP 34 | 377918 | 5441594 | 627 | 0.3 | 43.8 | 3.7 | 47 | <0.1 | 23.5 | 14.2 | 300 | 4.77 | 3.2 | 18.8 | 0.7 | 30 | <0.1 | 0.6 | <0.1 | 151 | 0.32 |
| Limestone | LRS 12 RP 35 | 377891 | 5441650 | 634 | 1.2 | 139.4 | 2.9 | 64 | <0.1 | 50.8 | 48.1 | 1184 | 4.37 | 8.4 | 14 | 0.9 | 15 | <0.1 | 0.5 | <0.1 | 111 | 0.22 |

| Project | Sample No | 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 | ppm V | % Ca |
|-----------|--------------|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| Limestone | LRS 12 RP 36 | 378192 | 5439619 | 229 | 0.3 | 38.5 | 5 | 22 | 0.2 | 10.6 | 6.9 | 265 | 6.59 | 1.6 | <0.5 | 0.3 | 14 | <0.1 | 0.6 | <0.1 | 380 | 0.22 |
| Limestone | LRS 12 RP 37 | 378571 | 5440339 | 751 | 0.8 | 180.5 | 3.2 | 62 | 0.4 | 51.6 | 25.6 | 787 | 6.43 | 91.8 | 4.9 | 0.6 | 15 | 0.3 | 0.5 | <0.1 | 180 | 0.25 |
| Limestone | LRS 12 RP 38 | 378588 | 5440401 | 852 | 0.7 | 152.4 | 4.1 | 54 | 0.4 | 41.9 | 22.3 | 679 | 7.39 | 75.4 | 6.1 | 0.6 | 13 | 0.2 | 0.5 | <0.1 | 239 | 0.24 |
| Limestone | LRS 12 RP 39 | 378583 | 5440386 | 903 | 0.6 | 132.9 | 4.9 | 53 | 0.3 | 41.8 | 20.4 | 689 | 6.12 | 69.4 | 4.7 | 0.5 | 14 | 0.2 | 0.4 | <0.1 | 189 | 0.3 |
| Limestone | LRS 12 RP 40 | 378676 | 5440517 | 866 | 0.5 | 53.4 | 4.2 | 44 | 0.4 | 15.3 | 11.8 | 1016 | 12.96 | 3.6 | 2.2 | 0.6 | 8 | 0.2 | 0.5 | 0.1 | 379 | 0.23 |
| Limestone | LRS 12 RP 41 | 378684 | 5440533 | 858 | 0.3 | 37.1 | 9 | 18 | 0.2 | 10.4 | 5.9 | 211 | 3.33 | 1.9 | 1.6 | 0.3 | 10 | 0.1 | 0.6 | 0.1 | 315 | 0.23 |
| Limestone | LRS 12 RP 42 | 378692 | 5440540 | 854 | 0.6 | 73.5 | 5.1 | 45 | 0.3 | 20.6 | 51 | 1605 | 9.06 | 2 | 1.3 | 0.5 | 8 | 0.1 | 0.5 | 0.1 | 341 | 0.19 |
| Limestone | LRS 12 RP 43 | 378712 | 5440586 | 841 | 0.6 | 74.2 | 5.3 | 44 | 0.4 | 19.3 | 49.9 | 1619 | 8.76 | 2.2 | 1.9 | 0.6 | 8 | 0.2 | 0.5 | 0.1 | 337 | 0.17 |
| Limestone | LRS 12 RP 44 | 378718 | 5440605 | 837 | 2.4 | 199.8 | 3.9 | 146 | 0.8 | 53.3 | 41.9 | >10000 | 5.67 | 8.3 | 4.4 | 0.4 | 15 | 0.9 | 0.5 | <0.1 | 221 | 0.62 |
| Limestone | LRS 12 RP 45 | 378732 | 5440649 | 836 | 1.1 | 70.8 | 4.4 | 42 | 0.2 | 18.5 | 11.7 | 479 | 13.13 | 6.3 | 3 | 0.7 | 8 | <0.1 | 0.7 | 0.1 | 463 | 0.1 |
| Limestone | LRS 12 RP 46 | 378749 | 5440694 | 813 | 0.9 | 163.4 | 1.5 | 61 | 1.1 | 52.3 | 22.6 | 466 | 7.1 | 8.7 | 8.3 | 0.7 | 8 | <0.1 | 0.4 | <0.1 | 247 | 0.18 |
| Limestone | LRS 12 RP 47 | 378773 | 5440750 | 786 | 0.8 | 186.1 | 1.5 | 61 | 0.9 | 50.8 | 22.1 | 437 | 7.08 | 8.5 | 8.7 | 0.7 | 8 | <0.1 | 0.4 | <0.1 | 249 | 0.17 |
| Limestone | LRS 12 RP 48 | 379414 | 5440667 | 764 | 0.9 | 205.3 | 1.5 | 59 | 0.8 | 53.6 | 22.1 | 482 | 6.8 | 8.7 | 12.9 | 0.7 | 8 | <0.1 | 0.4 | <0.1 | 235 | 0.18 |
| Limestone | LRS 12 RP 49 | 379355 | 5440665 | 782 | 0.6 | 151.8 | 4.7 | 74 | 0.5 | 28.2 | 23.3 | 774 | 7.35 | 7.7 | 15.5 | 1.1 | 9 | 0.2 | 0.9 | <0.1 | 129 | 0.16 |
| Limestone | LRS 12 RP 50 | 379308 | 5440679 | 791 | 0.7 | 80.3 | 7 | 73 | 0.2 | 13.5 | 14.2 | 634 | 8.56 | 9.4 | 44.2 | 1.3 | 7 | 0.2 | 0.9 | 0.3 | 134 | 0.09 |
| Limestone | LRS 12 RP 51 | 379254 | 5440693 | 793 | 0.6 | 471.7 | 6.5 | 92 | 0.2 | 47.4 | 34.9 | 1576 | 8.24 | 14.7 | 42 | 1.2 | 15 | 0.2 | 1.3 | <0.1 | 166 | 0.22 |
| Limestone | LRS 12 RP 52 | 379206 | 5440683 | 797 | 0.8 | 92.4 | 3.6 | 78 | 0.6 | 30.7 | 20.2 | 1074 | 8.5 | 7.3 | 6.1 | 0.7 | 8 | <0.1 | 0.6 | <0.1 | 210 | 0.12 |
| Limestone | | 377708 | 5440066 | 1062 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Limestone | JT 066 | 377760 | 5440081 | 1075 | 0.3 | 95.3 | 5.8 | 105 | 0.1 | 51.9 | 32.2 | 910 | 9.12 | 3.1 | 4 | 0.7 | 43 | 0.2 | 0.4 | <0.1 | 279 | 0.29 |
| Limestone | JT 067 | 377821 | 5440106 | 1098 | 0.5 | 17 | 174 | 96 | 0.5 | 23.5 | 17.6 | 372 | 9.01 | 13.9 | 0.6 | 0.4 | 13 | 0.2 | 1.5 | 0.3 | 334 | 0.13 |
| Limestone | JT 068 | 377871 | 5440121 | 1122 | 0.3 | 227.4 | 19.6 | 119 | 0.9 | 47.2 | 38.6 | 1446 | 6.48 | 5.6 | 8.2 | 0.5 | 103 | 0.6 | 0.3 | <0.1 | 215 | 1.89 |
| Limestone | JT 069 | 377930 | 5440137 | 1133 | 0.7 | 74.4 | 7.6 | 96 | 0.5 | 33.5 | 23.3 | 929 | 10.87 | 4.4 | 0.6 | 0.4 | 6 | 0.4 | 0.6 | 0.1 | 411 | 0.13 |
| Limestone | JT 070 | 377929 | 5440137 | 1133 | 0.5 | 135.1 | 4.3 | 63 | 0.2 | 34.8 | 22.8 | 768 | 9.15 | 6.2 | 14.7 | 0.5 | 36 | 0.2 | 0.3 | 0.5 | 301 | 0.31 |
| Limestone | JT 071 | 378022 | 5440166 | 1169 | 0.6 | 212 | 2.6 | 73 | 0.2 | 58.5 | 36.1 | 1552 | 7.9 | 2.3 | 7.8 | 0.6 | 65 | 0.1 | 0.3 | <0.1 | 276 | 0.94 |
| Limestone | JT 072 | 378061 | 5440176 | 1170 | 0.6 | 64 | 4.7 | 50 | 0.1 | 25.4 | 12.6 | 518 | 9.46 | 5.1 | 5.9 | 0.7 | 16 | <0.1 | 1.2 | 0.1 | 360 | 0.28 |
| Limestone | JT 073 | 378106 | 5440191 | 1192 | 0.9 | 133.5 | 2.5 | 51 | 0.1 | 30.3 | 15.7 | 594 | 10.65 | 3.4 | 7.8 | 1.1 | 11 | 0.1 | 0.4 | <0.1 | 332 | 0.24 |
| Limestone | JT 074 | 378141 | 5440216 | 1201 | 0.8 | 53.2 | 6.6 | 38 | <0.1 | 17.9 | 12.1 | 559 | 12.29 | 2.4 | 2.6 | 0.8 | 10 | <0.1 | 0.5 | 0.2 | 451 | 0.38 |
| Limestone | JT 075 | 378198 | 5440234 | 1200 | 1.3 | 59.6 | 6.2 | 35 | <0.1 | 13.9 | 9.6 | 564 | 14.6 | 2.1 | 21.3 | 0.9 | 13 | <0.1 | 0.5 | 0.3 | 488 | 0.3 |
| Limestone | JT 076 | 377625 | 5440149 | 1047 | 1.6 | 292.4 | 43.8 | 91 | 1.1 | 29.7 | 36 | 606 | 9.38 | 21.9 | 101.9 | 0.6 | 17 | 0.8 | 0.6 | 0.3 | 218 | 0.23 |
| Limestone | JT 077 | 377575 | 5440247 | 1027 | 2.6 | 213 | 39.5 | 434 | 5.3 | 54.8 | 64.5 | 2896 | 8.8 | 40.9 | 14.8 | 0.8 | 22 | 6.2 | 0.6 | 0.2 | 239 | 0.85 |
| Limestone | JT 078 | 377522 | 5440328 | 1018 | 0.9 | 228.1 | 9.2 | 83 | 0.6 | 49 | 31.4 | 712 | 8.68 | 16.1 | 12.6 | 0.8 | 13 | 0.1 | 0.7 | <0.1 | 255 | 0.19 |
| Limestone | JT 079 | 378724 | 5441200 | 590 | 0.8 | 56.9 | 3.5 | 41 | 0.3 | 15.2 | 11.3 | 414 | 5.91 | 9.5 | 27.9 | 0.8 | 12 | 0.2 | 0.7 | 0.2 | 174 | 0.17 |
| Limestone | JT 080 | 378714 | 5441166 | 600 | 0.9 | 85.8 | 4.5 | 57 | 0.3 | 29 | 19.3 | 524 | 7.91 | 21.2 | 8.8 | 0.5 | 13 | 0.1 | 1.1 | <0.1 | 245 | 0.23 |
| Limestone | JT 081 | 378693 | 5441127 | 617 | 0.7 | 70 | 4.9 | 48 | 0.4 | 19.5 | 12.5 | 671 | 8.04 | 11.6 | 2.7 | 0.4 | 18 | 0.1 | 0.7 | <0.1 | 347 | 0.24 |
| Limestone | JT 082 | 378681 | 5441084 | 642 | 1 | 230.4 | 4 | 90 | 0.5 | 56.8 | 34.1 | 1016 | 8.7 | 10.3 | 7.3 | 0.6 | 17 | 0.2 | 0.5 | <0.1 | 295 | 0.22 |
| Limestone | JT 083 | 378652 | 5441037 | 704 | 0.7 | 164.8 | 4.8 | 73 | 0.3 | 45 | 23.6 | 530 | 8.74 | 5.2 | 2.8 | 0.4 | 12 | <0.1 | 0.5 | <0.1 | 307 | 0.16 |
| Limestone | JT 084 | 378618 | 5440981 | 735 | 0.5 | 45.1 | 6.9 | 37 | 0.5 | 14.3 | 10.1 | 510 | 6.78 | 1.1 | 10 | 0.4 | 21 | 0.1 | 0.7 | 0.1 | 322 | 0.24 |
| Limestone | JT 085 | 378589 | 5440947 | 767 | 1.1 | 245.8 | 2.4 | 85 | 0.6 | 51.4 | 30.4 | 725 | 9.82 | 11.1 | 5.9 | 0.7 | 14 | 0.2 | 0.7 | <0.1 | 314 | 0.16 |
| Limestone | JT 086 | 378544 | 5440977 | 772 | 0.7 | 111.6 | 5.1 | 66 | 0.5 | 32.2 | 22.8 | 993 | 8.15 | 3.6 | 3.3 | 0.6 | 11 | 0.2 | 0.4 | <0.1 | 271 | 0.14 |
| Limestone | JT 087 | 378223 | 5441148 | 717 | 0.9 | 178.3 | 4 | 80 | 0.7 | 41.5 | 34 | 1130 | 9.56 | 3.1 | 4.3 | 0.5 | 16 | 0.2 | 0.5 | <0.1 | 378 | 0.18 |
| Limestone | JT 088 | 378081 | 5441199 | 689 | 0.7 | 165.5 | 1.9 | 50 | <0.1 | 37.1 | 17.2 | 383 | 7.46 | 5.5 | 1.9 | 1.2 | 10 | <0.1 | 0.5 | <0.1 | 209 | 0.18 |
| Limestone | MP 01 | 377377 | 5440603 | 940 | 1.2 | 95.8 | 8.8 | 159 | 0.1 | 60.9 | 32.5 | 902 | 6.34 | 15.5 | 4.6 | 1.4 | 29 | 0.3 | 1.1 | 0.1 | 159 | 0.83 |
| Limestone | MP 02 | 377405 | 5440659 | 929 | 0.9 | 85.4 | 5.1 | 57 | 0.1 | 28.8 | 17.6 | 393 | 8.19 | 7 | 24.5 | 0.8 | 25 | 0.2 | 0.6 | 0.1 | 298 | 0.32 |
| Limestone | MP 03 | 377426 | 5440708 | 911 | 0.8 | 145.2 | 4.9 | 60 | 0.2 | 33.4 | 19.8 | 354 | 10.84 | 6.6 | 26.2 | 0.9 | 21 | 0.2 | 0.7 | 0.1 | 348 | 0.2 |
| Limestone | | 377431 | 5440720 | 903 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Limestone | MP 04 | 377478 | 5440748 | 895 | 0.8 | 98.7 | 4.5 | 46 | 0.2 | 19.7 | 11.8 | 322 | 10.04 | 3.8 | 15.1 | 1 | 18 | <0.1 | 0.6 | 0.1 | 399 | 0.17 |
| Limestone | MP 05 | 377512 | 5440811 | 868 | 4.4 | 137.7 | 5.6 | 60 | 0.7 | 31.5 | 15 | 752 | 5.23 | 20.8 | 3.5 | 0.4 | 45 | 0.6 | 2 | 0.1 | 198 | 1.68 |

| Project | Sample No | 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 | ppm V | % Ca |
|-----------|-----------|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| Limestone | MP 06 | 377543 | 5440849 | 847 | 4.5 | 141 | 6.4 | 73 | 0.5 | 40.7 | 17.7 | 876 | 6.06 | 19.9 | 3.4 | 0.5 | 38 | 0.6 | 2 | 0.2 | 235 | 1.24 |
| Limestone | MP 07 | 377552 | 5440896 | 829 | 0.7 | 238.9 | 4 | 66 | 0.2 | 67.6 | 36.1 | 1458 | 5.67 | 11.3 | 21.3 | 0.4 | 72 | 0.4 | 0.7 | <0.1 | 183 | 1.43 |
| Limestone | MP 08 | 377568 | 5440940 | 822 | 0.6 | 253 | 33.7 | 69 | 0.2 | 61.2 | 32.7 | 918 | 5.79 | 6.2 | 11.9 | 0.6 | 58 | 0.2 | 0.5 | <0.1 | 198 | 1.05 |
| Limestone | MP 09 | 377589 | 5440983 | 811 | 2.3 | 125.1 | 5 | 50 | 0.3 | 33 | 32.5 | 536 | 6.76 | 3.6 | 19.1 | 0.7 | 31 | 0.1 | 0.4 | <0.1 | 254 | 0.29 |
| Limestone | MP 10 | 377604 | 5441046 | 803 | 0.3 | 30.2 | 4.7 | 22 | 0.3 | 10.5 | 6.1 | 185 | 4.22 | 4 | 10 | 0.5 | 16 | <0.1 | 0.6 | <0.1 | 197 | 0.17 |
| Limestone | MP 11 | 377626 | 5441099 | 783 | 0.9 | 130.1 | 3.5 | 46 | 0.2 | 33.5 | 17.8 | 366 | 6.48 | 13.2 | 11.4 | 0.8 | 20 | <0.1 | 0.6 | <0.1 | 223 | 0.25 |
| Limestone | MP 12 | 377653 | 5441169 | 776 | 0.6 | 92.2 | 4 | 38 | 0.2 | 22.4 | 28 | 601 | 5.75 | 4.9 | 7.9 | 0.6 | 25 | <0.1 | 0.5 | <0.1 | 200 | 0.29 |
| Limestone | MP 13 | 377669 | 5441201 | 762 | 2.5 | 231.3 | 4.4 | 106 | 0.1 | 36.3 | 36.4 | 1065 | 8.81 | 10 | 5.5 | 0.8 | 28 | 0.2 | 0.6 | 0.1 | 327 | 0.23 |
| Limestone | MP 14 | 377695 | 5441263 | 742 | 0.4 | 16.3 | 5.8 | 19 | 0.2 | 7.2 | 4.6 | 143 | 5.11 | 4.9 | 7.7 | 0.4 | 14 | <0.1 | 0.7 | <0.1 | 259 | 0.15 |
| Limestone | MP 15 | 377729 | 5441306 | 715 | 0.8 | 103.8 | 3.7 | 51 | 0.4 | 34.4 | 23.5 | 681 | 6.16 | 19.3 | 30.4 | 0.9 | 18 | 0.1 | 0.7 | <0.1 | 198 | 0.28 |
| Limestone | | 380270 | 5441303 | 877 | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Limestone | MP 16 | 380267 | 5441155 | 848 | 1.1 | 244.7 | 8.3 | 102 | 0.9 | 45.8 | 28.3 | 508 | 7.54 | 23.5 | 12.6 | 1.1 | 14 | 0.3 | 2.7 | 0.3 | 199 | 0.12 |
| Limestone | MP 17 | 377242 | 5440354 | 967 | 0.6 | 36 | 6.5 | 34 | 0.2 | 18.4 | 8 | 198 | 4.85 | 9.3 | 1.7 | 0.6 | 16 | 0.1 | 1 | 0.1 | 149 | 0.16 |
| Limestone | MP 18 | 377256 | 5440400 | 973 | 0.9 | 103.5 | 10.4 | 97 | 0.4 | 44.8 | 19.9 | 603 | 6.28 | 29.9 | 4.6 | 1.3 | 19 | 0.2 | 1.5 | 0.2 | 169 | 0.23 |
| Limestone | MP 19 | 377280 | 5440452 | 969 | 1.3 | 46.7 | 8.5 | 52 | 0.5 | 24.3 | 12.2 | 482 | 5.79 | 12 | 1.2 | 1.1 | 15 | <0.1 | 1 | 0.2 | 176 | 0.17 |
| Limestone | MP 20 | 377299 | 5440494 | 964 | 0.7 | 92.9 | 6.9 | 63 | 0.4 | 30.9 | 18.6 | 737 | 7.94 | 9.8 | 5.3 | 0.9 | 22 | 0.1 | 1.4 | 0.2 | 261 | 0.22 |
| Limestone | MP 21 | 377309 | 5440513 | 956 | 0.8 | 57.4 | 3.4 | 55 | 0.2 | 25.1 | 10.6 | 287 | 7.17 | 5.5 | 5 | 0.7 | 22 | 0.1 | 0.6 | 0.1 | 325 | 0.27 |
| Limestone | MP 22 | 377328 | 5440575 | 942 | 1.4 | 70.1 | 5.8 | 61 | 0.2 | 24.3 | 11.1 | 289 | 8.6 | 5.8 | 6.6 | 0.7 | 12 | 0.2 | 1.5 | 0.1 | 357 | 0.2 |

| Project | Sample No | % 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 | LL 12 AP-01 | 0.063 | 3 | 59 | 0.61 | 41 | 0.23 | 2 | 3.18 | 0.006 | 0.02 | 0.1 | 0.15 | 6.5 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LL 12 AP-02 | 0.039 | 3 | 63 | 0.58 | 44 | 0.136 | 2 | 2.32 | 0.007 | 0.03 | <0.1 | 0.13 | 4.2 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | LL 12 AP-03 | 0.038 | 7 | 162 | 1.58 | 67 | 0.231 | 5 | 3.73 | 0.009 | 0.03 | 0.2 | 0.25 | 11.5 | <0.1 | <0.05 | 9 | 1.3 | <0.2 |
| Lacey | LL 12 AP-04 | 0.052 | 4 | 80 | 0.96 | 35 | 0.225 | 3 | 3.53 | 0.005 | 0.02 | 0.2 | 0.21 | 8.4 | <0.1 | <0.05 | 8 | 0.5 | <0.2 |
| Lacey | LL 12 AP-05 | 0.037 | 3 | 48 | 0.41 | 29 | 0.229 | 2 | 2.92 | 0.006 | 0.02 | 0.2 | 0.07 | 6 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LH 01 | 0.051 | 4 | 53 | 0.35 | 40 | 0.213 | 3 | 2.72 | 0.008 | 0.02 | 0.1 | 0.11 | 5.8 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LH 02 | 0.058 | 18 | 51 | 0.41 | 99 | 0.149 | 4 | 3.23 | 0.009 | 0.03 | <0.1 | 0.17 | 10.7 | 0.1 | <0.05 | 6 | 0.7 | <0.2 |
| Lacey | LH 03 | 0.025 | 2 | 46 | 0.44 | 45 | 0.166 | 1 | 2.15 | 0.007 | 0.02 | <0.1 | 0.11 | 4.3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | LH 04 | 0.099 | 3 | 67 | 0.4 | 64 | 0.204 | 2 | 2.67 | 0.008 | 0.03 | <0.1 | 0.1 | 4.6 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LH 05 | 0.156 | 44 | 57 | 0.77 | 154 | 0.142 | 4 | 4.23 | 0.01 | 0.03 | <0.1 | 0.18 | 18.6 | 0.2 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | LH 06 | 0.146 | 5 | 61 | 0.51 | 47 | 0.184 | 2 | 4.74 | 0.009 | 0.04 | <0.1 | 0.15 | 8.5 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LH 07 | 0.18 | 8 | 20 | 0.22 | 102 | 0.044 | 1 | 2.5 | 0.006 | 0.06 | <0.1 | 0.17 | 3.4 | 0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LH 08 | 0.051 | 8 | 59 | 1.15 | 82 | 0.24 | 3 | 3.53 | 0.008 | 0.04 | 0.1 | 0.18 | 15 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | LH 09 | 0.063 | 3 | 45 | 0.59 | 92 | 0.232 | 2 | 3.19 | 0.008 | 0.03 | 0.1 | 0.12 | 5.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LH 10 | 0.045 | 4 | 24 | 0.2 | 48 | 0.07 | <1 | 1.59 | 0.006 | 0.02 | <0.1 | 0.06 | 2.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LH 13 | 0.031 | 5 | 71 | 0.68 | 113 | 0.051 | 2 | 1.97 | 0.006 | 0.03 | <0.1 | 0.2 | 6.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | LH 14 | 0.071 | 3 | 48 | 0.48 | 61 | 0.119 | 2 | 2.16 | 0.01 | 0.03 | 0.1 | 0.14 | 4.9 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LH 15 | 0.082 | 2 | 35 | 0.27 | 27 | 0.169 | 1 | 1.82 | 0.005 | 0.02 | <0.1 | 0.08 | 3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | LL 12 LH 16 | 0.13 | 13 | 123 | 0.84 | 149 | 0.002 | 4 | 3.69 | 0.005 | 0.04 | 0.1 | 0.9 | 12.9 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LL 12 LH 18 | 0.026 | 3 | 27 | 0.26 | 28 | 0.131 | <1 | 1.25 | 0.005 | 0.02 | <0.1 | 0.04 | 2.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LL 12 AP-06 | 0.055 | 4 | 87 | 0.43 | 67 | 0.195 | 2 | 3.68 | 0.006 | 0.03 | <0.1 | 0.14 | 5.2 | <0.1 | <0.05 | 9 | 0.7 | <0.2 |
| Lacey | LL 12 AP-07 | 0.06 | 3 | 74 | 0.5 | 72 | 0.129 | 1 | 2.84 | 0.005 | 0.03 | <0.1 | 0.1 | 3.5 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LL 12 AP-08 | 0.052 | 3 | 78 | 0.55 | 62 | 0.143 | 2 | 2.84 | 0.005 | 0.03 | <0.1 | 0.13 | 4.9 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | LL 12 AP-09 | 0.072 | 3 | 77 | 0.31 | 29 | 0.134 | <1 | 2.26 | 0.004 | 0.02 | <0.1 | 0.09 | 3.4 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Lacey | LL 12 AP-10 | 0.026 | 2 | 61 | 0.14 | 60 | 0.062 | <1 | 0.8 | 0.005 | 0.04 | <0.1 | 0.08 | 1.9 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | LL 12 AP-11 | 0.032 | 3 | 43 | 0.35 | 50 | 0.103 | 1 | 2.23 | 0.006 | 0.02 | <0.1 | 0.14 | 3.5 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LL 12 AP-12 | 0.038 | 3 | 50 | 0.58 | 54 | 0.154 | 1 | 3.54 | 0.005 | 0.02 | <0.1 | 0.13 | 4.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | LL 12 AP-13 | 0.086 | 3 | 34 | 0.35 | 83 | 0.06 | 1 | 2.41 | 0.006 | 0.04 | <0.1 | 0.14 | 3.7 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LLS 12 AP-15 | 0.04 | 4 | 42 | 0.5 | 60 | 0.144 | 2 | 2.8 | 0.006 | 0.04 | <0.1 | 0.1 | 5.2 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | LLS 12 AP 16 | 0.052 | 6 | 70 | 0.61 | 71 | 0.11 | 2 | 2.57 | 0.007 | 0.03 | 0.1 | 0.48 | 11.5 | <0.1 | <0.05 | 7 | 1 | <0.2 |
| Lacey | LLS 12 AP 17 | 0.038 | 4 | 221 | 1.08 | 53 | 0.008 | <1 | 1.94 | 0.005 | 0.03 | <0.1 | 0.33 | 9.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | LLS 12 AP 18 | 0.041 | 4 | 53 | 0.64 | 59 | 0.085 | 3 | 2.83 | 0.008 | 0.03 | <0.1 | 0.12 | 5.7 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | LLS 12 AP 19 | 0.042 | 4 | 203 | 1.74 | 54 | 0.034 | 2 | 3.1 | 0.006 | 0.03 | <0.1 | 0.1 | 9.9 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LLS 12 AP 20 | 0.012 | 2 | 33 | 0.24 | 33 | 0.047 | <1 | 1.14 | 0.005 | 0.02 | <0.1 | 0.09 | 2.5 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| Lacey | LLS 12 AP 21 | 0.036 | 6 | 53 | 0.47 | 55 | 0.118 | 2 | 3.1 | 0.008 | 0.04 | <0.1 | 0.15 | 6.2 | <0.1 | <0.05 | 8 | 0.5 | <0.2 |
| Lacey | LLS 12 AP 22 | 0.055 | 3 | 155 | 1.16 | 60 | 0.147 | <1 | 1.86 | 0.006 | 0.03 | <0.1 | 0.07 | 4.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | LLS 12 AP 23 | 0.066 | 3 | 95 | 0.83 | 54 | 0.165 | 1 | 2.94 | 0.006 | 0.03 | <0.1 | 0.07 | 5.1 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LLS 12 AP 24 | 0.036 | 4 | 54 | 0.63 | 73 | 0.097 | 2 | 3.02 | 0.007 | 0.03 | <0.1 | 0.09 | 6 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | LLS 12 AP 25 | 0.052 | 3 | 69 | 0.62 | 46 | 0.098 | <1 | 3.09 | 0.005 | 0.03 | <0.1 | 0.06 | 3.6 | 0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | LLS 12 AP 26 | 0.059 | 2 | 96 | 1.21 | 45 | 0.103 | <1 | 3.23 | 0.005 | 0.03 | <0.1 | 0.08 | 6.1 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |

| Project | Sample No | % 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 | LLS 12 AP 27 | 0.024 | 3 | 35 | 0.51 | 52 | 0.016 | 1 | 1.85 | 0.006 | 0.03 | <0.1 | 0.16 | 4.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | RP 01 | 0.07 | 4 | 51 | 0.44 | 24 | 0.292 | <1 | 2.15 | 0.006 | 0.02 | <0.1 | 0.09 | 2.7 | <0.1 | <0.05 | 13 | <0.5 | <0.2 |
| Lacey | RP 02 | 0.081 | 3 | 50 | 0.43 | 42 | 0.18 | 1 | 4.7 | 0.007 | 0.03 | <0.1 | 0.06 | 4.2 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | RP 03 | 0.082 | 3 | 33 | 0.3 | 34 | 0.138 | <1 | 2.16 | 0.006 | 0.02 | <0.1 | 0.14 | 3.3 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | RP 04 | 0.034 | 3 | 32 | 0.33 | 16 | 0.136 | 1 | 1.67 | 0.005 | 0.01 | <0.1 | 0.16 | 3.1 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | RP 05 | 0.208 | 3 | 66 | 0.57 | 37 | 0.162 | 2 | 3.93 | 0.006 | 0.03 | 0.1 | 0.22 | 7.6 | <0.1 | <0.05 | 10 | 0.6 | <0.2 |
| Lacey | RP 06 | 0.106 | 3 | 72 | 0.55 | 23 | 0.273 | 2 | 4.02 | 0.006 | 0.02 | <0.1 | 0.13 | 8.3 | <0.1 | <0.05 | 13 | <0.5 | <0.2 |
| Lacey | RP 07 | 0.18 | 12 | 18 | 0.3 | 164 | 0.023 | 2 | 3.19 | 0.005 | 0.04 | <0.1 | 0.19 | 4 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | RP 08 | 0.107 | 3 | 46 | 0.51 | 88 | 0.22 | 3 | 2.75 | 0.007 | 0.03 | <0.1 | 0.1 | 5.1 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | RP 09 | 0.024 | 3 | 11 | 0.09 | 26 | 0.088 | <1 | 1.07 | 0.005 | 0.01 | <0.1 | 0.03 | 2.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | RP 10 | 0.049 | 3 | 49 | 0.68 | 81 | 0.116 | 3 | 3.47 | 0.006 | 0.04 | <0.1 | 0.12 | 6.6 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | RP 11 | 0.03 | 6 | 41 | 0.75 | 64 | 0.06 | 1 | 2.6 | 0.005 | 0.03 | <0.1 | 0.08 | 5.7 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | RP 14 | 0.054 | 5 | 69 | 0.88 | 53 | 0.127 | 2 | 2.79 | 0.006 | 0.02 | <0.1 | 0.13 | 7.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | RP 15 | 0.061 | 2 | 44 | 0.42 | 41 | 0.192 | 2 | 2.4 | 0.006 | 0.01 | <0.1 | 0.05 | 3.6 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | RP 16 | 0.099 | 4 | 25 | 0.53 | 58 | 0.24 | 2 | 2.26 | 0.006 | 0.04 | <0.1 | 0.09 | 4.1 | <0.1 | <0.05 | 13 | <0.5 | <0.2 |
| Lacey | RP 17 | 0.027 | 3 | 26 | 0.22 | 28 | 0.261 | 3 | 1.22 | 0.006 | 0.01 | <0.1 | 0.03 | 2.5 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | RP 18 | 0.076 | 4 | 60 | 0.48 | 48 | 0.101 | <1 | 2.4 | 0.006 | 0.03 | <0.1 | 0.14 | 5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | RP 19 | 0.019 | 3 | 78 | 0.37 | 22 | 0.04 | <1 | 1.59 | 0.003 | 0.01 | <0.1 | 0.04 | 3.9 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | RP 20 | 0.025 | 3 | 35 | 0.39 | 51 | 0.09 | 1 | 1.57 | 0.005 | 0.02 | <0.1 | 0.05 | 3.2 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | RP 21 | 0.049 | 3 | 65 | 0.77 | 64 | 0.13 | 1 | 3.46 | 0.007 | 0.03 | 0.1 | 0.05 | 4.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | RP 22 | 0.133 | 3 | 83 | 0.56 | 78 | 0.299 | 2 | 2.79 | 0.007 | 0.02 | <0.1 | 0.06 | 5.7 | <0.1 | <0.05 | 15 | <0.5 | <0.2 |
| Lacey | RP 23 | 0.059 | 4 | 45 | 0.43 | 90 | 0.078 | 2 | 1.61 | 0.006 | 0.02 | <0.1 | 0.08 | 3.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | RP 24 | 0.033 | 4 | 69 | 0.45 | 41 | 0.038 | <1 | 1.77 | 0.005 | 0.03 | <0.1 | 0.25 | 8.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | RP 25 | 0.056 | 3 | 31 | 0.3 | 40 | 0.087 | 1 | 1.67 | 0.005 | 0.02 | <0.1 | 0.1 | 3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | RP 27 | 0.048 | 3 | 30 | 0.33 | 26 | 0.117 | <1 | 2.05 | 0.005 | 0.02 | <0.1 | 0.06 | 4 | <0.1 | <0.05 | 13 | <0.5 | <0.2 |
| Lacey | RP 28 | 0.056 | 5 | 45 | 0.51 | 59 | 0.169 | 2 | 3.73 | 0.008 | 0.04 | <0.1 | 0.09 | 5.8 | 0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Lacey | RP 29 | 0.108 | 3 | 41 | 0.3 | 36 | 0.159 | <1 | 2.5 | 0.005 | 0.03 | <0.1 | 0.08 | 3.5 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Lacey | RP 30 | 0.032 | 4 | 68 | 0.53 | 90 | 0.193 | 3 | 4.01 | 0.007 | 0.02 | <0.1 | 0.1 | 6.7 | <0.1 | <0.05 | 13 | <0.5 | <0.2 |
| Lacey | RP 31 | 0.03 | 3 | 37 | 0.17 | 52 | 0.306 | 2 | 0.84 | 0.005 | <0.01 | <0.1 | 0.03 | 3.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | RP 32 | 0.035 | 3 | 37 | 0.22 | 50 | 0.312 | 2 | 0.94 | 0.005 | <0.01 | <0.1 | 0.03 | 3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | RP 33 | 0.037 | 3 | 40 | 0.29 | 53 | 0.31 | 2 | 1.04 | 0.005 | 0.01 | <0.1 | 0.05 | 3.4 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | RP 34 | 0.04 | 3 | 44 | 0.34 | 48 | 0.324 | 2 | 1.18 | 0.005 | 0.01 | <0.1 | 0.04 | 3.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | RP 35 | 0.035 | 7 | 42 | 0.43 | 108 | 0.122 | 3 | 2.13 | 0.007 | 0.02 | <0.1 | 0.07 | 5.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | RP 36 | 0.037 | 8 | 44 | 0.44 | 116 | 0.132 | 4 | 2.21 | 0.007 | 0.02 | <0.1 | 0.07 | 6.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | RP 37 | 0.049 | 3 | 48 | 0.6 | 45 | 0.169 | 2 | 2.98 | 0.008 | 0.02 | <0.1 | 0.14 | 7.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | RP 38 | 0.291 | 3 | 66 | 0.51 | 31 | 0.147 | 1 | 3.88 | 0.006 | 0.03 | 0.1 | 0.24 | 6.9 | <0.1 | <0.05 | 10 | 0.6 | <0.2 |
| Lacey | RP 39 | 0.024 | 2 | 14 | 0.2 | 16 | 0.12 | <1 | 0.92 | 0.004 | 0.02 | <0.1 | 0.05 | 2.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | RP 40 | 0.083 | 2 | 43 | 0.3 | 38 | 0.161 | <1 | 3.23 | 0.006 | 0.02 | <0.1 | 0.11 | 4 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | RP 41 | 0.039 | 3 | 32 | 0.29 | 37 | 0.079 | <1 | 2.16 | 0.006 | 0.02 | <0.1 | 0.07 | 3.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | RP 42 | 0.123 | 3 | 53 | 0.27 | 19 | 0.128 | 2 | 2.05 | 0.006 | 0.01 | <0.1 | 0.05 | 3.2 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Lacey | RP 43 | 0.036 | 3 | 34 | 0.31 | 33 | 0.123 | 2 | 2.25 | 0.008 | 0.02 | <0.1 | 0.06 | 3.1 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | RP 44 | 0.043 | 3 | 24 | 0.28 | 33 | 0.079 | 2 | 1.62 | 0.005 | 0.02 | <0.1 | 0.06 | 3.7 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | RP 45 | 0.031 | 5 | 12 | 0.25 | 43 | 0.015 | 1 | 1.51 | 0.006 | 0.02 | <0.1 | 0.05 | 2.3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | RP 46 | 0.125 | 5 | 7 | 0.1 | 177 | 0.039 | 3 | 1.36 | 0.018 | 0.04 | <0.1 | 0.09 | 3.4 | 0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | RP 47 | 0.028 | 3 | 12 | 0.25 | 24 | 0.09 | 1 | 1.51 | 0.005 | 0.02 | <0.1 | 0.06 | 5.3 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |

| Project | Sample No | % 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 | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LL 12 LH 22 | 0.049 | 3 | 37 | 0.28 | 92 | 0.182 | 1 | 1.9 | 0.006 | 0.02 | <0.1 | 0.07 | 4.3 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LL 12 LH 24 | 0.054 | 4 | 35 | 0.37 | 53 | 0.069 | <1 | 2.68 | 0.004 | 0.03 | <0.1 | 0.17 | 4.8 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LL 12 LH 25 | 0.261 | 8 | 65 | 0.18 | 48 | 0.107 | 2 | 9.38 | 0.006 | 0.03 | 0.1 | 0.47 | 23.7 | <0.1 | <0.05 | 7 | 3.4 | <0.2 |
| Lacey | LL 12 LH 26 | 0.153 | 3 | 39 | 0.28 | 50 | 0.237 | 2 | 2.3 | 0.009 | 0.02 | <0.1 | 0.17 | 7.8 | <0.1 | <0.05 | 13 | 1.2 | <0.2 |
| Lacey | LL 12 LH 27 | 0.076 | 3 | 26 | 0.19 | 20 | 0.22 | <1 | 1.39 | 0.004 | 0.03 | <0.1 | 0.09 | 3.9 | <0.1 | <0.05 | 17 | <0.5 | <0.2 |
| Lacey | LL 12 LH 28 | 0.07 | 5 | 45 | 0.59 | 71 | 0.178 | 2 | 3.65 | 0.006 | 0.04 | <0.1 | 0.14 | 7.5 | <0.1 | <0.05 | 10 | 0.8 | <0.2 |
| Lacey | LL 12 LH 29 | 0.08 | 7 | 24 | 0.39 | 33 | 0.338 | 2 | 1.83 | 0.005 | 0.03 | <0.1 | 0.13 | 2.5 | <0.1 | <0.05 | 10 | 0.8 | <0.2 |
| Lacey | LL 12 LH 30 | 0.292 | 18 | 7 | 1.96 | 41 | 0.382 | <1 | 3.76 | 0.005 | 0.36 | <0.1 | 0.06 | 6.7 | <0.1 | <0.05 | 17 | 0.7 | <0.2 |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LL12 LH-32 | 0.021 | 3 | 26 | 0.23 | 33 | 0.092 | 1 | 1.34 | 0.005 | 0.02 | <0.1 | 0.08 | 2.6 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | LL12 LH-33 | 0.033 | 3 | 30 | 0.31 | 34 | 0.156 | 1 | 2.44 | 0.008 | 0.02 | <0.1 | 0.19 | 3.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | LL12 LH-34 | 0.022 | 3 | 23 | 0.22 | 34 | 0.08 | 1 | 1.21 | 0.006 | 0.02 | <0.1 | 0.04 | 2.7 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LLS 12 LH-36 | 0.041 | 9 | 57 | 0.33 | 85 | 0.096 | 4 | 2.32 | 0.011 | 0.02 | <0.1 | 0.19 | 8.2 | <0.1 | <0.05 | 6 | 1.6 | <0.2 |
| Lacey | LLS 12 LH-37 | 0.06 | 6 | 21 | 0.24 | 74 | 0.072 | 2 | 1.86 | 0.005 | 0.03 | <0.1 | 0.14 | 3.2 | <0.1 | <0.05 | 6 | 0.7 | <0.2 |
| Lacey | LLS 12 LH-38 | 0.028 | 3 | 27 | 0.26 | 73 | 0.026 | <1 | 1.68 | 0.005 | 0.02 | <0.1 | 0.08 | 2.7 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | LLS 12 LH-39 | 0.103 | 4 | 37 | 0.41 | 89 | 0.056 | 2 | 2.64 | 0.006 | 0.04 | <0.1 | 0.11 | 3.6 | <0.1 | <0.05 | 7 | 0.6 | <0.2 |
| Lacey | LLS 12 LH-40 | 0.04 | 9 | 56 | 0.38 | 123 | 0.077 | 1 | 2.96 | 0.008 | 0.03 | <0.1 | 0.13 | 9.7 | <0.1 | <0.05 | 8 | 1.7 | <0.2 |
| Lacey | LLS 12 LH-41 | 0.05 | 4 | 37 | 0.39 | 92 | 0.124 | 2 | 2.7 | 0.007 | 0.03 | <0.1 | 0.09 | 4.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | LLS 12 LH-43 | 0.077 | 4 | 40 | 0.49 | 62 | 0.19 | 2 | 3.53 | 0.006 | 0.03 | <0.1 | 0.18 | 5.2 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | LLS 12 LH-44 | 0.061 | 8 | 46 | 0.51 | 49 | 0.194 | 2 | 3.86 | 0.007 | 0.03 | <0.1 | 0.16 | 8.9 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LLS 12 LH-45 | 0.167 | 3 | 23 | 0.2 | 71 | 0.075 | <1 | 2.25 | 0.005 | 0.03 | <0.1 | 0.1 | 3.1 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LLS 12 LH-46 | 0.025 | 3 | 19 | 0.33 | 62 | 0.032 | 1 | 1.37 | 0.006 | 0.03 | <0.1 | 0.08 | 3.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | JT 001 | 0.082 | 3 | 38 | 0.45 | 40 | 0.119 | 1 | 2.26 | 0.005 | 0.02 | <0.1 | 0.15 | 3.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 002 | 0.072 | 6 | 30 | 0.3 | 203 | 0.099 | 1 | 1.66 | 0.006 | 0.03 | <0.1 | 0.15 | 4.3 | 0.2 | <0.05 | 7 | 0.7 | <0.2 |
| Lacey | JT 003 | 0.034 | 2 | 43 | 0.22 | 21 | 0.124 | <1 | 1.42 | 0.004 | 0.02 | <0.1 | 0.14 | 2.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | JT 004 | 0.1 | 3 | 53 | 0.55 | 38 | 0.124 | 2 | 3.69 | 0.006 | 0.04 | <0.1 | 0.13 | 5.3 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | JT 005 | 0.022 | 5 | 65 | 0.63 | 81 | 0.179 | 2 | 3.82 | 0.007 | 0.03 | <0.1 | 0.2 | 8.9 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| Lacey | JT 006 | 0.076 | 3 | 100 | 1.71 | 174 | 0.384 | 2 | 3.13 | 0.005 | 0.04 | <0.1 | 0.11 | 8.6 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| Lacey | JT 007 | 0.043 | 2 | 41 | 0.53 | 28 | 0.11 | 2 | 2.76 | 0.006 | 0.03 | <0.1 | 0.13 | 3.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 008 | 0.017 | 3 | 34 | 0.41 | 55 | 0.228 | <1 | 1.38 | 0.005 | 0.02 | <0.1 | 0.05 | 3.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | JT 009 | 0.013 | 2 | 21 | 0.51 | 24 | 0.283 | <1 | 1.8 | 0.006 | 0.01 | <0.1 | 0.04 | 2.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | JT 010 | 0.04 | 3 | 50 | 0.34 | 25 | 0.192 | 1 | 2.73 | 0.006 | 0.01 | <0.1 | 0.09 | 5.4 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | JT 011 | 0.073 | 3 | 43 | 0.45 | 67 | 0.126 | 2 | 2.11 | 0.006 | 0.02 | <0.1 | 0.1 | 3.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 012 | 0.068 | 3 | 47 | 0.37 | 51 | 0.202 | 1 | 3.07 | 0.006 | 0.02 | <0.1 | 0.1 | 5.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | JT 013 | 0.022 | 4 | 53 | 0.43 | 67 | 0.232 | 2 | 3.34 | 0.006 | 0.02 | <0.1 | 0.08 | 4.7 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | JT 014 | 0.054 | 7 | 73 | 0.59 | 99 | 0.234 | 3 | 4.27 | 0.007 | 0.03 | <0.1 | 0.1 | 9.2 | 0.1 | <0.05 | 11 | <0.5 | <0.2 |
| Lacey | JT 015 | 0.077 | 5 | 27 | 0.2 | 46 | 0.09 | 1 | 2.49 | 0.005 | 0.02 | <0.1 | 0.14 | 3.9 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | JT 016 | 0.136 | 3 | 62 | 0.48 | 35 | 0.127 | 2 | 2.68 | 0.006 | 0.03 | <0.1 | 0.18 | 4.4 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | JT 017 | 0.136 | 3 | 26 | 0.15 | 27 | 0.114 | 2 | 1.13 | 0.005 | 0.01 | <0.1 | 0.04 | 3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | JT 018 | 0.112 | 4 | 107 | 1.47 | 98 | 0.177 | 2 | 4.43 | 0.005 | 0.03 | 0.1 | 0.13 | 12.6 | 0.1 | <0.05 | 13 | <0.5 | <0.2 |
| Lacey | JT 019 | 0.095 | 3 | 66 | 0.59 | 55 | 0.203 | 2 | 3.94 | 0.005 | 0.02 | <0.1 | 0.17 | 5.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |

| Project | Sample No | % 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 | JT 020 | 0.04 | 3 | 55 | 0.52 | 80 | 0.199 | <1 | 2 | 0.007 | 0.02 | <0.1 | 0.06 | 3.6 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | JT 021 | 0.045 | 6 | 83 | 1.56 | 160 | 0.022 | 2 | 4.31 | 0.005 | 0.04 | <0.1 | 0.09 | 10.1 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | JT 022 | 0.068 | 4 | 33 | 0.68 | 216 | 0.008 | <1 | 2.31 | 0.006 | 0.04 | <0.1 | 0.07 | 5.2 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 023 | 0.048 | 8 | 42 | 0.62 | 98 | 0.088 | 3 | 2.9 | 0.007 | 0.03 | <0.1 | 0.13 | 5.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 024 | 0.022 | 4 | 43 | 0.44 | 69 | 0.066 | 1 | 1.63 | 0.005 | 0.02 | 0.2 | 0.14 | 3.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | JT 025 | 0.098 | 2 | 49 | 0.51 | 54 | 0.354 | 2 | 1.56 | 0.005 | 0.02 | <0.1 | 0.16 | 3 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | JT 026 | 0.054 | 2 | 47 | 0.43 | 49 | 0.236 | 1 | 2.83 | 0.006 | 0.02 | <0.1 | 0.21 | 4.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 027 | 0.051 | 3 | 61 | 0.52 | 74 | 0.277 | 2 | 3.18 | 0.007 | 0.02 | <0.1 | 0.16 | 4.4 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | JT 028 | 0.048 | 4 | 96 | 0.5 | 89 | 0.206 | 3 | 4.04 | 0.006 | 0.01 | 0.1 | 0.18 | 6.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | JT 029 | 0.167 | 3 | 62 | 0.43 | 48 | 0.207 | 2 | 3.14 | 0.005 | 0.03 | 0.1 | 0.16 | 4.3 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | JT 030 | 0.051 | 5 | 58 | 0.52 | 55 | 0.221 | 2 | 3.8 | 0.006 | 0.02 | 0.1 | 0.23 | 5.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | JT 031 | 0.028 | 3 | 28 | 0.29 | 23 | 0.092 | <1 | 1.91 | 0.004 | 0.01 | <0.1 | 0.21 | 2.9 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | JT 032 | 0.036 | 3 | 40 | 0.38 | 51 | 0.116 | <1 | 2.23 | 0.006 | 0.02 | <0.1 | 0.07 | 4.1 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | JT 033 | 0.035 | 5 | 30 | 0.31 | 141 | 0.101 | 2 | 2.44 | 0.006 | 0.04 | <0.1 | 0.11 | 4.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 034 | 0.038 | 4 | 38 | 0.51 | 84 | 0.101 | 2 | 2.69 | 0.008 | 0.02 | <0.1 | 0.09 | 5.2 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 035 | 0.04 | 2 | 33 | 0.37 | 40 | 0.047 | <1 | 2.14 | 0.005 | 0.02 | <0.1 | 0.09 | 3.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 036 | 0.013 | 3 | 28 | 0.18 | 66 | 0.023 | <1 | 1.23 | 0.003 | 0.02 | 0.1 | 0.08 | 3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | JT 037 | 0.067 | 3 | 64 | 0.8 | 58 | 0.256 | 2 | 3.15 | 0.006 | 0.03 | <0.1 | 0.1 | 6 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | JT 038 | 0.025 | 3 | 28 | 0.2 | 45 | 0.087 | <1 | 1.5 | 0.006 | 0.01 | <0.1 | 0.05 | 3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | JT 039 | 0.108 | 3 | 63 | 0.58 | 41 | 0.143 | 2 | 5.12 | 0.007 | 0.04 | <0.1 | 0.24 | 6.3 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| Lacey | JT 040 | 0.056 | 3 | 41 | 0.32 | 37 | 0.099 | <1 | 2.6 | 0.005 | 0.02 | <0.1 | 0.24 | 4.1 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | JT 041 | 0.064 | 11 | 60 | 0.65 | 148 | 0.134 | 5 | 4 | 0.01 | 0.02 | <0.1 | 0.29 | 9.6 | <0.1 | <0.05 | 10 | 1.7 | <0.2 |
| Lacey | JT 042 | 0.076 | 5 | 46 | 0.44 | 131 | 0.148 | 2 | 3.43 | 0.007 | 0.03 | <0.1 | 0.13 | 5.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | JT 043 | 0.042 | 4 | 36 | 0.39 | 97 | 0.09 | 1 | 2.64 | 0.007 | 0.03 | <0.1 | 0.09 | 4.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | JT 044 | 0.123 | 4 | 66 | 0.61 | 122 | 0.082 | 2 | 2.94 | 0.008 | 0.04 | <0.1 | 0.07 | 5.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 045 | 0.044 | 5 | 82 | 0.67 | 94 | 0.124 | 1 | 3.07 | 0.007 | 0.04 | <0.1 | 0.19 | 6 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | JT 046 | 0.053 | 4 | 214 | 1.07 | 123 | 0.024 | <1 | 2.21 | 0.004 | 0.02 | <0.1 | 0.19 | 8.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 047 | 0.063 | 6 | 101 | 0.78 | 129 | 0.072 | 2 | 2.93 | 0.007 | 0.04 | <0.1 | 0.13 | 7.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 048 | 0.087 | 3 | 57 | 0.41 | 40 | 0.155 | 1 | 3.23 | 0.006 | 0.02 | <0.1 | 0.15 | 5.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 049 | 0.073 | 3 | 38 | 0.37 | 55 | 0.117 | <1 | 2.16 | 0.006 | 0.01 | <0.1 | 0.12 | 3.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 050 | 0.194 | 3 | 64 | 0.58 | 43 | 0.129 | 2 | 3.27 | 0.005 | 0.02 | <0.1 | 0.12 | 4.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 051 | 0.055 | 3 | 94 | 0.9 | 45 | 0.154 | 2 | 3.28 | 0.007 | 0.03 | <0.1 | 0.14 | 7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 052 | 0.048 | 3 | 61 | 0.6 | 41 | 0.13 | 1 | 2.24 | 0.006 | 0.02 | <0.1 | 0.07 | 4.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 053 | 0.021 | 3 | 53 | 0.39 | 51 | 0.09 | <1 | 1.87 | 0.006 | 0.01 | <0.1 | 0.17 | 5.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | JT 054 | 0.035 | 3 | 31 | 0.3 | 60 | 0.055 | 1 | 2.66 | 0.004 | 0.02 | <0.1 | 0.09 | 2.4 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | JT 055 | 0.138 | 9 | 57 | 0.41 | 177 | 0.107 | 3 | 5.29 | 0.007 | 0.04 | <0.1 | 0.36 | 12.5 | 0.2 | <0.05 | 11 | 0.9 | <0.2 |
| Lacey | JT 056 | 0.131 | 3 | 49 | 0.43 | 42 | 0.221 | 2 | 3.58 | 0.005 | 0.03 | <0.1 | 0.1 | 6 | <0.1 | <0.05 | 14 | <0.5 | <0.2 |
| Lacey | JT 057 | 0.098 | 3 | 57 | 0.59 | 44 | 0.23 | 2 | 4.43 | 0.006 | 0.03 | <0.1 | 0.11 | 6.5 | <0.1 | <0.05 | 13 | <0.5 | <0.2 |
| Lacey | JT 058 | 0.062 | 4 | 68 | 0.65 | 33 | 0.227 | 2 | 4.74 | 0.005 | 0.02 | <0.1 | 0.07 | 9.8 | <0.1 | <0.05 | 13 | <0.5 | <0.2 |
| Lacey | JT 059 | 0.078 | 4 | 35 | 0.25 | 40 | 0.092 | <1 | 2.56 | 0.005 | 0.02 | <0.1 | 0.07 | 4.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | JT 060 | 0.066 | 6 | 43 | 0.48 | 101 | 0.012 | 1 | 3.16 | 0.007 | 0.04 | <0.1 | 0.13 | 8.5 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | JT 061 | 0.224 | 5 | 38 | 0.66 | 46 | 0.234 | 2 | 3.33 | 0.006 | 0.04 | <0.1 | 0.11 | 6.5 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Lacey | JT 062 | 0.201 | 8 | 2 | 1.88 | 34 | 0.433 | 1 | 3.52 | 0.006 | 0.09 | <0.1 | 0.05 | 5.5 | <0.1 | <0.05 | 17 | <0.5 | <0.2 |
| Lacey | JT 063 | 0.117 | 4 | 38 | 0.38 | 96 | 0.13 | 2 | 3.13 | 0.005 | 0.03 | <0.1 | 0.16 | 4.9 | 0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Lacey | JT 064 | 0.041 | 5 | 7 | 0.13 | 28 | 0.16 | <1 | 0.94 | 0.005 | 0.01 | <0.1 | 0.08 | 3.6 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | MP 01 | 0.049 | 2 | 36 | 0.68 | 83 | 0.026 | 1 | 2.11 | 0.005 | 0.02 | 0.1 | 0.14 | 9.3 | <0.1 | 0.18 | 8 | <0.5 | <0.2 |
| Lacey | MP 02 | 0.047 | 5 | 10 | 0.4 | 106 | 0.001 | <1 | 2.97 | 0.006 | 0.05 | 0.2 | 0.33 | 7.4 | 0.1 | 0.16 | 9 | <0.5 | <0.2 |

| Project | Sample No | % 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 | MP 03 | 0.11 | 3 | 43 | 0.44 | 62 | 0.066 | <1 | 3.51 | 0.006 | 0.03 | <0.1 | 0.26 | 5.8 | <0.1 | 0.16 | 10 | <0.5 | <0.2 |
| Lacey | MP 04 | 0.126 | 3 | 48 | 0.5 | 48 | 0.244 | 2 | 3.49 | 0.01 | 0.03 | <0.1 | 0.19 | 6.2 | <0.1 | 0.16 | 11 | 0.6 | <0.2 |
| Lacey | MP 05 | 0.047 | 5 | 48 | 0.4 | 70 | 0.223 | 1 | 2.27 | 0.007 | 0.03 | <0.1 | 0.14 | 4.9 | <0.1 | 0.17 | 9 | <0.5 | <0.2 |
| Lacey | MP 06 | 0.07 | 3 | 54 | 0.63 | 69 | 0.2 | 1 | 3.22 | 0.007 | 0.03 | <0.1 | 0.1 | 6.3 | <0.1 | 0.16 | 10 | <0.5 | <0.2 |
| Lacey | MP 07 | 0.036 | 4 | 26 | 0.31 | 41 | 0.068 | <1 | 1.86 | 0.006 | 0.03 | <0.1 | 0.13 | 3.6 | <0.1 | 0.17 | 7 | <0.5 | <0.2 |
| Lacey | MP 08 | 0.137 | 5 | 67 | 0.95 | 69 | 0.161 | 2 | 2.33 | 0.005 | 0.05 | <0.1 | 0.08 | 5.7 | <0.1 | 0.14 | 10 | <0.5 | <0.2 |
| Lacey | MP 09 | 0.053 | 3 | 61 | 0.42 | 56 | 0.038 | 2 | 2.24 | 0.005 | 0.02 | <0.1 | 0.2 | 7.2 | <0.1 | 0.16 | 8 | <0.5 | <0.2 |
| Lacey | MP 10 | 0.055 | 4 | 200 | 1.25 | 85 | 0.187 | 2 | 3.21 | 0.007 | 0.03 | <0.1 | 0.09 | 6.8 | <0.1 | 0.16 | 10 | <0.5 | 0.2 |
| Lacey | MP 11 | 0.15 | 4 | 54 | 0.61 | 115 | 0.141 | 2 | 2.39 | 0.007 | 0.04 | <0.1 | 0.09 | 5.6 | <0.1 | 0.17 | 8 | <0.5 | <0.2 |
| Lacey | MP 12 | 0.088 | 4 | 73 | 0.61 | 84 | 0.173 | 2 | 2.73 | 0.007 | 0.02 | <0.1 | 0.15 | 5.5 | <0.1 | 0.15 | 8 | <0.5 | <0.2 |
| Lacey | MP 13 | 0.054 | 16 | 108 | 0.18 | 197 | 0.016 | 2 | 1.9 | 0.005 | 0.02 | 0.4 | 0.37 | 13.1 | <0.1 | 0.18 | 6 | <0.5 | <0.2 |
| Lacey | MP 14 | 0.111 | 3 | 86 | 0.73 | 50 | 0.264 | 1 | 2.5 | 0.007 | 0.03 | <0.1 | 0.25 | 4.5 | <0.1 | 0.1 | 9 | 0.5 | <0.2 |
| Lacey | MP 15 | 0.053 | 4 | 39 | 0.3 | 42 | 0.154 | <1 | 1.98 | 0.005 | 0.02 | <0.1 | 0.04 | 3.3 | <0.1 | 0.16 | 9 | <0.5 | <0.2 |
| Lacey | MP 16 | 0.041 | 4 | 75 | 0.32 | 47 | 0.105 | <1 | 1.74 | 0.005 | 0.03 | <0.1 | 0.06 | 5.7 | <0.1 | 0.18 | 8 | <0.5 | <0.2 |
| Lacey | MP 17 | 0.055 | 3 | 55 | 0.49 | 61 | 0.221 | 2 | 2.52 | 0.007 | 0.02 | 0.1 | 0.05 | 4.4 | <0.1 | 0.14 | 9 | <0.5 | <0.2 |
| Lacey | MP 18 | 0.11 | 3 | 49 | 0.49 | 75 | 0.186 | 2 | 3.49 | 0.007 | 0.03 | <0.1 | 0.19 | 5.4 | <0.1 | 0.15 | 9 | <0.5 | <0.2 |
| Lacey | MP 19 | 0.056 | 7 | 9 | 0.25 | 65 | 0.003 | <1 | 1.71 | 0.007 | 0.04 | <0.1 | 0.13 | 3.2 | <0.1 | 0.17 | 6 | <0.5 | <0.2 |
| Lacey | MP 20 | 0.082 | 4 | 33 | 0.41 | 55 | 0.111 | 1 | 2.41 | 0.007 | 0.03 | <0.1 | 0.14 | 3.8 | <0.1 | 0.15 | 8 | <0.5 | <0.2 |
| Lacey | MP 21 | 0.056 | 14 | 116 | 0.16 | 161 | 0.01 | 2 | 1.83 | 0.004 | 0.03 | 0.5 | 0.33 | 13.2 | <0.1 | 0.17 | 5 | <0.5 | <0.2 |
| Lacey | MP 22 | 0.13 | 3 | 50 | 0.33 | 72 | 0.223 | 1 | 2.06 | 0.007 | 0.04 | <0.1 | 0.13 | 4.1 | <0.1 | 0.17 | 13 | <0.5 | <0.2 |
| Lacey | MP 23 | 0.07 | 5 | 74 | 0.67 | 39 | 0.245 | 2 | 4.21 | 0.01 | 0.03 | <0.1 | 0.08 | 9.9 | <0.1 | 0.15 | 10 | 0.8 | <0.2 |
| Lacey | MP 24 | 0.051 | 2 | 55 | 0.43 | 39 | 0.219 | 2 | 4.23 | 0.009 | 0.02 | <0.1 | 0.09 | 4.9 | <0.1 | 0.16 | 10 | <0.5 | <0.2 |
| Lacey | MP 25 | 0.056 | 3 | 44 | 0.49 | 50 | 0.214 | 2 | 3.7 | 0.007 | 0.02 | <0.1 | 0.39 | 5.4 | <0.1 | 0.16 | 11 | <0.5 | <0.2 |
| Lacey | MP 26 | 0.122 | 3 | 33 | 0.24 | 24 | 0.174 | 1 | 1.73 | 0.006 | 0.02 | <0.1 | 0.1 | 4 | <0.1 | 0.18 | 10 | <0.5 | <0.2 |
| Lacey | MP 27 | 0.044 | 5 | 29 | 0.24 | 213 | 0.001 | 1 | 2.58 | 0.003 | 0.11 | <0.1 | 0.09 | 8.4 | 0.2 | 0.15 | 7 | <0.5 | <0.2 |
| Lacey | MP 28 | 0.025 | 3 | 9 | 0.13 | 30 | 0.118 | 1 | 1.08 | 0.005 | 0.02 | <0.1 | 0.04 | 5 | <0.1 | 0.2 | 6 | <0.5 | <0.2 |
| Lacey | MP 29 | 0.108 | 7 | 26 | 0.37 | 116 | 0.052 | 2 | 3.85 | 0.006 | 0.06 | <0.1 | 0.1 | 3.9 | 0.1 | 0.15 | 10 | <0.5 | <0.2 |
| Lacey | MP 30 | 0.07 | 11 | 34 | 0.71 | 135 | 0.046 | 4 | 4.62 | 0.008 | 0.05 | <0.1 | 0.14 | 9.8 | <0.1 | 0.14 | 8 | 0.8 | <0.2 |
| Lacey | MP 31 | 0.033 | 3 | 11 | 0.09 | 11 | 0.105 | <1 | 0.75 | 0.004 | 0.03 | <0.1 | 0.02 | 2.2 | <0.1 | 0.18 | 6 | <0.5 | <0.2 |
| Lacey | MP 32 | 0.145 | 4 | 24 | 0.28 | 141 | 0.069 | 1 | 1.61 | 0.005 | 0.05 | <0.1 | 0.12 | 3.3 | <0.1 | 0.17 | 8 | <0.5 | <0.2 |
| Lacey | MP 33 | 0.095 | 9 | 39 | 0.66 | 202 | 0.02 | 2 | 2.72 | 0.004 | 0.09 | 0.1 | 0.13 | 7.9 | <0.1 | 0.17 | 8 | <0.5 | 0.4 |
| Lacey | MP 34 | 0.057 | 16 | 209 | 1.05 | 180 | 0.039 | 4 | 3.49 | 0.008 | 0.03 | <0.1 | 0.25 | 20.9 | <0.1 | 0.15 | 8 | 1.2 | <0.2 |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | MP 35 | 0.047 | 5 | 43 | 0.48 | 57 | 0.126 | 1 | 2.06 | 0.005 | 0.02 | <0.1 | 0.09 | 5.1 | <0.1 | 0.18 | 10 | <0.5 | <0.2 |
| Lacey | MP 36 | 0.09 | 4 | 40 | 0.37 | 75 | 0.149 | <1 | 2.37 | 0.006 | 0.02 | <0.1 | 0.07 | 4.3 | <0.1 | 0.15 | 9 | <0.5 | <0.2 |
| Lacey | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Lacey | MP 38 | 0.039 | 4 | 126 | 0.68 | 84 | 0.013 | 3 | 2.58 | 0.003 | 0.03 | 0.3 | 0.55 | 10.6 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | MP 39 | 0.054 | 4 | 170 | 0.82 | 155 | 0.002 | 3 | 2.19 | 0.008 | 0.04 | 0.2 | 0.26 | 13.6 | <0.1 | <0.05 | 5 | 0.6 | <0.2 |
| Lacey | MP 40 | 0.06 | 5 | 33 | 0.46 | 105 | 0.095 | 3 | 2.37 | 0.005 | 0.04 | <0.1 | 0.07 | 5.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | MP 41 | 0.031 | 3 | 45 | 0.46 | 85 | 0.13 | 2 | 3.94 | 0.006 | 0.03 | 0.1 | 0.07 | 4.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | MP 42 | 0.047 | 3 | 31 | 0.41 | 93 | 0.084 | 2 | 2.5 | 0.004 | 0.03 | <0.1 | 0.08 | 2.9 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | MP 43 | 0.042 | 3 | 35 | 0.43 | 59 | 0.078 | 1 | 2.57 | 0.005 | 0.03 | <0.1 | 0.06 | 3.3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | MP 44 | 0.141 | 3 | 24 | 0.17 | 200 | 0.076 | 2 | 1.63 | 0.004 | 0.03 | <0.1 | 0.09 | 3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | MP 45 | 0.055 | 6 | 41 | 0.68 | 70 | 0.048 | 4 | 2.86 | 0.004 | 0.05 | 0.1 | 0.06 | 5.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | MP 46 | 0.043 | 4 | 22 | 0.37 | 98 | 0.079 | <1 | 1.49 | 0.006 | 0.04 | <0.1 | 0.08 | 3.1 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | MP 47 | 0.114 | 3 | 37 | 0.5 | 108 | 0.11 | 2 | 2.87 | 0.007 | 0.04 | <0.1 | 0.08 | 4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | MP 48 | 0.405 | 6 | 24 | 0.35 | 59 | 0.112 | 1 | 3.91 | 0.006 | 0.05 | <0.1 | 0.17 | 5.7 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |

| Project | Sample No | % 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 | LA-12 JT-001 | 0.063 | 11 | 37 | 0.41 | 130 | 0.092 | 3 | 2.51 | 0.009 | 0.03 | <0.1 | 0.22 | 5.5 | <0.1 | 0.09 | 5 | 2 | 0.7 |
| Lacey | LA-12 JT-003 | 0.072 | 3 | 455 | 3.14 | 62 | 0.149 | 1 | 3.04 | 0.004 | 0.02 | <0.1 | 0.08 | 10.1 | <0.1 | <0.05 | 8 | <0.5 | 1 |
| Lacey | LA-12 JT-004 | 0.078 | 5 | 86 | 1.19 | 102 | 0.12 | 2 | 3.01 | 0.009 | 0.03 | <0.1 | 0.11 | 8.3 | <0.1 | <0.05 | 8 | <0.5 | 0.3 |
| Lacey | LA-12 JT-005 | 0.07 | 4 | 76 | 1.01 | 116 | 0.067 | <1 | 2.57 | 0.009 | 0.03 | 0.1 | 0.04 | 6.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | LA-12 JT-006 | 0.028 | 4 | 65 | 1.13 | 98 | 0.096 | 2 | 3.16 | 0.01 | 0.04 | <0.1 | 0.11 | 7.7 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | LA-12 JT-007 | 0.032 | 3 | 33 | 0.37 | 42 | 0.088 | <1 | 1.19 | 0.007 | 0.02 | <0.1 | 0.06 | 3.1 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| Lacey | LA-12 JT-008 | 0.063 | 2 | 23 | 0.27 | 30 | 0.108 | <1 | 1.45 | 0.008 | 0.02 | <0.1 | 0.11 | 2.8 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| Lacey | LA-12 JT-009 | 0.067 | 3 | 42 | 0.44 | 65 | 0.169 | 2 | 2.41 | 0.008 | 0.02 | <0.1 | 0.09 | 3.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | LA-12 JT-010 | 0.04 | 4 | 27 | 0.29 | 62 | 0.156 | 1 | 2.31 | 0.009 | 0.02 | <0.1 | 0.09 | 3.9 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |
| Lacey | LA-12 JT-011 | 0.069 | 4 | 44 | 0.62 | 71 | 0.154 | 2 | 2.53 | 0.011 | 0.03 | <0.1 | 0.13 | 5.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | LA-12 JT-012 | 0.117 | 4 | 41 | 0.38 | 64 | 0.145 | 1 | 2.35 | 0.008 | 0.03 | <0.1 | 0.07 | 3.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | LA-12 JT-013 | 0.074 | 3 | 31 | 0.37 | 58 | 0.139 | 2 | 2.24 | 0.009 | 0.02 | <0.1 | 0.07 | 4 | <0.1 | <0.05 | 6 | 0.6 | <0.2 |
| Lacey | LA-12 PS-001 | 0.094 | 3 | 55 | 0.51 | 78 | 0.152 | 1 | 2.35 | 0.008 | 0.03 | <0.1 | 0.08 | 3.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | LA-12 PS-002 | 0.034 | 5 | 47 | 0.4 | 63 | 0.164 | 1 | 2.5 | 0.009 | 0.02 | <0.1 | 0.08 | 3.6 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | LA-12 PS-004 | 0.056 | 11 | 256 | 2.23 | 88 | 0.383 | 2 | 3.11 | 0.006 | 0.02 | 0.5 | 0.07 | 7.2 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Lacey | LA-12 PS-005 | 0.037 | 7 | 140 | 0.62 | 173 | 0.038 | 2 | 3.45 | 0.007 | 0.04 | 0.1 | 0.38 | 9.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | LA-12 PS-006 | 0.033 | 4 | 55 | 0.37 | 51 | 0.206 | 2 | 2.94 | 0.01 | 0.02 | <0.1 | 0.08 | 5.1 | <0.1 | <0.05 | 8 | 0.8 | <0.2 |
| Lacey | LA-12 PS-007 | 0.062 | 3 | 25 | 0.23 | 54 | 0.102 | <1 | 1.33 | 0.005 | 0.03 | <0.1 | 0.08 | 2.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | LA-12 PS-008 | 0.054 | 5 | 36 | 0.4 | 71 | 0.152 | 2 | 2.62 | 0.015 | 0.02 | <0.1 | 0.08 | 4.1 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | LA-12 PS-009 | 0.066 | 4 | 33 | 0.27 | 43 | 0.163 | 1 | 2.54 | 0.009 | 0.02 | <0.1 | 0.12 | 3.6 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | LA-12 PS-010 | 0.048 | 3 | 38 | 0.29 | 41 | 0.174 | <1 | 1.68 | 0.006 | 0.01 | <0.1 | 0.04 | 2.9 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | LA-12 PS-011 | 0.094 | 3 | 23 | 0.16 | 26 | 0.128 | <1 | 1.62 | 0.005 | 0.02 | <0.1 | 0.05 | 3 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| Lacey | LA-12 PS-012 | 0.117 | 3 | 36 | 0.31 | 49 | 0.154 | <1 | 2.38 | 0.011 | 0.02 | <0.1 | 0.08 | 3.8 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | LA-12 PS-013 | 0.04 | 4 | 45 | 0.43 | 47 | 0.232 | 1 | 2.55 | 0.008 | 0.02 | <0.1 | 0.05 | 4.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | LA-12 PS-014 | 0.039 | 3 | 60 | 0.56 | 79 | 0.009 | 2 | 2.38 | 0.004 | 0.02 | <0.1 | 0.13 | 8.6 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | LA-12 PS-015 | 0.015 | 3 | 33 | 0.28 | 42 | 0.086 | <1 | 1.89 | 0.004 | 0.03 | <0.1 | 0.03 | 3.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | 13LS001 | 0.058 | 3 | 24 | 1.11 | 62 | 0.005 | 2 | 2.9 | 0.007 | 0.03 | <0.1 | 0.18 | 7.6 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS002 | 0.076 | 3 | 38 | 0.28 | 69 | 0.087 | 2 | 2.36 | 0.008 | 0.03 | <0.1 | 0.07 | 4.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS003 | 0.127 | 2 | 36 | 0.87 | 48 | 0.054 | 1 | 3.1 | 0.007 | 0.02 | <0.1 | 0.12 | 6.1 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | 13LS004 | 0.054 | 4 | 26 | 0.61 | 122 | 0.014 | 1 | 2.11 | 0.007 | 0.04 | <0.1 | 0.05 | 4 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS005 | 0.257 | 4 | 47 | 1.61 | 48 | 0.111 | 2 | 3.81 | 0.006 | 0.04 | 0.3 | 0.14 | 8 | <0.1 | <0.05 | 9 | 0.6 | <0.2 |
| Lacey | 13LS006 | 0.092 | 5 | 91 | 0.66 | 53 | 0.105 | 2 | 2.72 | 0.007 | 0.02 | <0.1 | 0.09 | 12.9 | <0.1 | <0.05 | 6 | 2.1 | <0.2 |
| Lacey | 13LS007 | 0.04 | 6 | 47 | 0.77 | 48 | 0.142 | 3 | 2.7 | 0.01 | 0.02 | <0.1 | 0.07 | 8.4 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS008 | 0.064 | 4 | 41 | 0.75 | 42 | 0.134 | 2 | 2.86 | 0.007 | 0.03 | 0.2 | 0.16 | 7 | <0.1 | <0.05 | 7 | 0.9 | <0.2 |
| Lacey | 13LS009 | 0.025 | 3 | 29 | 0.5 | 57 | 0.125 | 2 | 1.98 | 0.009 | 0.02 | <0.1 | 0.06 | 4.7 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| Lacey | 13LS010 | 0.06 | 4 | 39 | 0.49 | 38 | 0.17 | 3 | 2.56 | 0.008 | 0.02 | <0.1 | 0.09 | 7.3 | <0.1 | <0.05 | 7 | 0.5 | <0.2 |
| Lacey | 13LS011 | 0.086 | 11 | 57 | 0.45 | 191 | 0.089 | 2 | 2.98 | 0.01 | 0.02 | <0.1 | 0.15 | 11.5 | 0.2 | 0.09 | 8 | 1.7 | <0.2 |
| Lacey | 13LS012 | 0.022 | 5 | 49 | 0.62 | 69 | 0.185 | 2 | 3.16 | 0.009 | 0.03 | <0.1 | 0.07 | 9.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS013 | 0.026 | 4 | 46 | 0.68 | 109 | 0.159 | 3 | 3.5 | 0.01 | 0.03 | <0.1 | 0.06 | 6.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS014 | 0.049 | 2 | 38 | 0.35 | 69 | 0.134 | 2 | 2.2 | 0.007 | 0.05 | <0.1 | 0.04 | 3.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS015 | 0.054 | 4 | 45 | 0.44 | 51 | 0.163 | 2 | 2.63 | 0.008 | 0.02 | <0.1 | 0.16 | 6 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS016 | 0.102 | 7 | 55 | 0.54 | 69 | 0.16 | 2 | 4.78 | 0.008 | 0.03 | <0.1 | 0.27 | 10.4 | <0.1 | <0.05 | 9 | 1.1 | <0.2 |
| Lacey | 13LS017 | 0.052 | 10 | 32 | 0.42 | 106 | 0.096 | 2 | 1.75 | 0.009 | 0.05 | 0.1 | 2.17 | 8.9 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| Lacey | 13LS018 | 0.177 | 15 | 48 | 0.9 | 232 | 0.111 | 2 | 2.39 | 0.007 | 0.04 | 0.2 | 0.61 | 9.1 | 1.6 | <0.05 | 7 | 0.6 | 1.3 |
| Lacey | 13LS019 | 0.071 | 9 | 61 | 0.36 | 204 | 0.087 | 3 | 6.62 | 0.01 | 0.03 | <0.1 | 0.23 | 10 | <0.1 | 0.1 | 7 | 2.4 | <0.2 |
| Lacey | 13LS020 | 0.064 | 4 | 43 | 0.52 | 46 | 0.164 | 2 | 3.06 | 0.008 | 0.03 | <0.1 | 0.14 | 7.6 | <0.1 | <0.05 | 9 | 0.5 | <0.2 |
| Lacey | 13LS021 | 0.069 | 3 | 55 | 0.63 | 53 | 0.196 | 2 | 4.35 | 0.008 | 0.03 | <0.1 | 0.18 | 6.8 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |

| Project | Sample No | % 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 | 13LS022 | 0.038 | 6 | 50 | 0.47 | 72 | 0.21 | 1 | 3.13 | 0.008 | 0.02 | 0.1 | 0.15 | 9.4 | <0.1 | <0.05 | 9 | 0.5 | <0.2 |
| Lacey | 13LS023 | 0.035 | 3 | 33 | 0.45 | 39 | 0.161 | 1 | 1.95 | 0.008 | 0.02 | <0.1 | 0.09 | 4.9 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS024 | 0.045 | 4 | 38 | 0.47 | 60 | 0.151 | 2 | 2.07 | 0.008 | 0.05 | <0.1 | 0.06 | 4.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS025 | 0.042 | 3 | 35 | 0.25 | 92 | 0.146 | 1 | 2.07 | 0.007 | 0.02 | <0.1 | 0.11 | 2.9 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS026 | 0.088 | 3 | 58 | 0.26 | 36 | 0.18 | <1 | 3.41 | 0.006 | 0.02 | <0.1 | 0.15 | 4.4 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Lacey | 13LS027 | 0.121 | 7 | 46 | 0.31 | 102 | 0.125 | 2 | 3.2 | 0.008 | 0.03 | <0.1 | 0.17 | 6.5 | 0.1 | 0.06 | 8 | 0.8 | <0.2 |
| Lacey | 13LS028 | 0.056 | 3 | 57 | 0.47 | 52 | 0.188 | 2 | 3.32 | 0.008 | 0.02 | <0.1 | 0.09 | 6.4 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | 13LS029 | 0.136 | 5 | 39 | 0.74 | 25 | 0.17 | 2 | 3.57 | 0.009 | 0.02 | <0.1 | 0.1 | 11.6 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS030 | 0.045 | 10 | 35 | 0.39 | 40 | 0.103 | 1 | 2.18 | 0.007 | 0.02 | <0.1 | 0.13 | 6.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS031 | 0.041 | 5 | 37 | 0.43 | 56 | 0.072 | 2 | 2.49 | 0.006 | 0.02 | <0.1 | 0.21 | 7.7 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| Lacey | 13LS032 | 0.024 | 11 | 54 | 0.81 | 52 | 0.122 | 1 | 2.92 | 0.01 | 0.02 | <0.1 | 0.14 | 9.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS033 | 0.041 | 5 | 39 | 0.45 | 42 | 0.096 | 1 | 2.29 | 0.006 | 0.02 | <0.1 | 0.08 | 4.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS034 | 0.053 | 7 | 55 | 0.65 | 322 | 0.13 | 1 | 2.58 | 0.011 | 0.03 | <0.1 | 0.14 | 12.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS035 | 0.027 | 4 | 42 | 0.35 | 69 | 0.194 | 2 | 2.56 | 0.008 | 0.02 | <0.1 | 0.05 | 4.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS036 | 0.05 | 4 | 46 | 0.36 | 44 | 0.178 | 1 | 2.45 | 0.008 | 0.02 | <0.1 | 0.17 | 5.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS037 | 0.041 | 5 | 37 | 0.5 | 82 | 0.181 | 3 | 2.83 | 0.009 | 0.03 | <0.1 | 0.08 | 6.8 | <0.1 | <0.05 | 6 | 0.5 | <0.2 |
| Lacey | 13LS038 | 0.087 | 13 | 63 | 0.95 | 116 | 0.109 | 5 | 3.1 | 0.011 | 0.05 | <0.1 | 0.23 | 13.6 | <0.1 | <0.05 | 7 | 0.5 | <0.2 |
| Lacey | 13LS039 | 0.083 | 4 | 36 | 0.35 | 49 | 0.153 | 2 | 2.34 | 0.008 | 0.02 | <0.1 | 0.14 | 4.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS040 | 0.046 | 5 | 48 | 0.71 | 96 | 0.161 | 4 | 3.86 | 0.009 | 0.04 | <0.1 | 0.17 | 8.7 | <0.1 | <0.05 | 8 | 0.7 | <0.2 |
| Lacey | 13LS041 | 0.046 | 8 | 63 | 0.54 | 75 | 0.148 | 3 | 3.7 | 0.009 | 0.02 | <0.1 | 0.13 | 8.6 | <0.1 | <0.05 | 9 | 1 | <0.2 |
| Lacey | 13LS042 | 0.056 | 4 | 43 | 0.63 | 54 | 0.158 | 3 | 2.84 | 0.01 | 0.02 | <0.1 | 0.07 | 6.3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS043 | 0.052 | 4 | 47 | 0.64 | 75 | 0.187 | 3 | 2.92 | 0.008 | 0.03 | <0.1 | 0.18 | 7.9 | <0.1 | <0.05 | 9 | 0.7 | <0.2 |
| Lacey | 13LS044 | 0.022 | 5 | 43 | 0.64 | 58 | 0.187 | 3 | 2.83 | 0.009 | 0.02 | <0.1 | 0.13 | 7.6 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS045 | 0.024 | 4 | 23 | 0.2 | 24 | 0.057 | 1 | 1.28 | 0.006 | 0.02 | <0.1 | 0.15 | 2.3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS046 | 0.077 | 4 | 36 | 0.42 | 44 | 0.082 | 2 | 2.52 | 0.007 | 0.03 | <0.1 | 0.24 | 4.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS047 | 0.042 | 3 | 13 | 0.25 | 53 | 0.045 | 1 | 1.41 | 0.005 | 0.03 | <0.1 | 0.12 | 2.9 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| Lacey | 13LS048 | 0.078 | 6 | 48 | 0.43 | 48 | 0.164 | 2 | 3.9 | 0.008 | 0.03 | <0.1 | 0.1 | 6.6 | <0.1 | <0.05 | 8 | 0.5 | <0.2 |
| Lacey | 13LS049 | 0.051 | 9 | 48 | 0.48 | 63 | 0.142 | 2 | 3 | 0.009 | 0.02 | <0.1 | 0.13 | 6.6 | <0.1 | <0.05 | 7 | 1 | <0.2 |
| Lacey | 13LS050 | 0.04 | 7 | 37 | 0.45 | 71 | 0.138 | 2 | 2.29 | 0.009 | 0.02 | <0.1 | 0.11 | 5.1 | <0.1 | <0.05 | 7 | 0.7 | <0.2 |
| Lacey | 13LS052 | 0.072 | 5 | 25 | 0.49 | 92 | 0.128 | 2 | 2.46 | 0.005 | 0.02 | <0.1 | 0.09 | 5.1 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Lacey | 13LS053 | 0.041 | 4 | 50 | 0.53 | 46 | 0.148 | 2 | 2.19 | 0.007 | 0.02 | <0.1 | 0.1 | 5.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS054 | 0.049 | 4 | 40 | 0.37 | 51 | 0.181 | 2 | 2.16 | 0.008 | 0.02 | <0.1 | 0.12 | 3.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS055 | 0.097 | 5 | 42 | 0.44 | 42 | 0.191 | 2 | 3.28 | 0.009 | 0.03 | <0.1 | 0.33 | 5.7 | <0.1 | <0.05 | 8 | 0.7 | <0.2 |
| Lacey | 13LS056 | 0.048 | 4 | 34 | 0.57 | 51 | 0.205 | 2 | 2.34 | 0.009 | 0.02 | <0.1 | 0.12 | 5.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS057 | 0.042 | 3 | 42 | 0.52 | 36 | 0.196 | 3 | 2.9 | 0.009 | 0.02 | <0.1 | 0.08 | 5.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS058 | 0.04 | 5 | 45 | 0.64 | 37 | 0.214 | 2 | 2.74 | 0.01 | 0.02 | <0.1 | 0.12 | 8.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS059 | 0.076 | 4 | 65 | 0.6 | 29 | 0.223 | 3 | 3.73 | 0.007 | 0.02 | <0.1 | 0.16 | 7.3 | <0.1 | <0.05 | 9 | 0.8 | <0.2 |
| Lacey | 13LS060 | 0.04 | 7 | 48 | 0.78 | 88 | 0.189 | 3 | 3.61 | 0.012 | 0.05 | <0.1 | 0.09 | 8.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS061 | 0.084 | 3 | 50 | 0.57 | 39 | 0.183 | 2 | 3.29 | 0.007 | 0.03 | <0.1 | 0.14 | 5 | <0.1 | <0.05 | 7 | 0.5 | <0.2 |
| Lacey | 13LS062 | 0.071 | 4 | 35 | 0.57 | 46 | 0.159 | 3 | 2.32 | 0.009 | 0.03 | <0.1 | 0.1 | 4.7 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS063 | 0.082 | 3 | 51 | 0.62 | 64 | 0.152 | 3 | 2.05 | 0.007 | 0.03 | <0.1 | 0.09 | 4 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS064 | 0.053 | 3 | 65 | 0.56 | 48 | 0.169 | 2 | 2.71 | 0.007 | 0.03 | <0.1 | 0.15 | 4.4 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | 13LS065 | 0.026 | 3 | 89 | 0.98 | 28 | 0.316 | <1 | 1.68 | 0.009 | 0.02 | <0.1 | 0.03 | 5.4 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | 13LS066 | 0.057 | 4 | 31 | 0.43 | 70 | 0.072 | 1 | 1.87 | 0.006 | 0.02 | <0.1 | 0.09 | 3.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS067 | 0.032 | 6 | 36 | 0.35 | 64 | 0.125 | 1 | 2.76 | 0.009 | 0.03 | <0.1 | 0.07 | 4.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS068 | 0.244 | 4 | 18 | 0.8 | 124 | 0.007 | 3 | 1.56 | 0.016 | 0.06 | <0.1 | 0.13 | 12 | <0.1 | 0.52 | 5 | 4.4 | 1.7 |
| Lacey | 13LS069 | 0.081 | 4 | 29 | 0.45 | 95 | 0.06 | 2 | 1.87 | 0.009 | 0.04 | <0.1 | 0.08 | 3.9 | <0.1 | 0.05 | 8 | 0.6 | 0.4 |

| Project | Sample No | % 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 | 13LS070 | 0.083 | 5 | 38 | 0.51 | 86 | 0.123 | 2 | 4.06 | 0.011 | 0.05 | <0.1 | 0.1 | 5.4 | <0.1 | <0.05 | 8 | 0.9 | 0.2 |
| Lacey | 13LS071 | 0.029 | 7 | 41 | 0.41 | 54 | 0.174 | 1 | 3.08 | 0.011 | 0.03 | <0.1 | 0.05 | 5.3 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | 13LS072 | 0.046 | 5 | 36 | 0.36 | 43 | 0.136 | 1 | 2.17 | 0.007 | 0.04 | <0.1 | 0.08 | 3.7 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS073 | 0.037 | 2 | 23 | 0.19 | 105 | 0.138 | 2 | 0.54 | 0.006 | 0.02 | <0.1 | 0.1 | 1.6 | <0.1 | <0.05 | 3 | <0.5 | <0.2 |
| Lacey | 13LS074 | 0.08 | 4 | 50 | 0.49 | 62 | 0.169 | 1 | 3.15 | 0.007 | 0.03 | <0.1 | 0.09 | 3.9 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | 13LS075 | 0.062 | 6 | 59 | 0.67 | 58 | 0.153 | 2 | 4.47 | 0.008 | 0.04 | <0.1 | 0.34 | 5.4 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |
| Lacey | 13LS076 | 0.057 | 4 | 46 | 0.52 | 51 | 0.177 | 2 | 3.21 | 0.007 | 0.03 | <0.1 | 0.15 | 5.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS077 | 0.063 | 5 | 43 | 0.66 | 52 | 0.149 | 2 | 3.27 | 0.01 | 0.04 | <0.1 | 0.17 | 5.4 | <0.1 | <0.05 | 6 | 0.8 | <0.2 |
| Lacey | 13LS078 | 0.077 | 5 | 76 | 0.81 | 62 | 0.171 | 2 | 3.2 | 0.007 | 0.03 | <0.1 | 0.09 | 5.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS079 | 0.088 | 5 | 76 | 1.06 | 38 | 0.156 | 2 | 2.89 | 0.007 | 0.03 | 0.1 | 0.09 | 5.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS080 | 0.165 | 4 | 80 | 0.68 | 48 | 0.165 | <1 | 3.19 | 0.007 | 0.03 | 0.1 | 0.11 | 5.4 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | 13LS081 | 0.12 | 5 | 81 | 0.76 | 66 | 0.164 | <1 | 3.82 | 0.008 | 0.04 | 0.1 | 0.35 | 6.6 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |
| Lacey | 13LS082 | 0.072 | 8 | 58 | 1.05 | 81 | 0.186 | 2 | 3.23 | 0.008 | 0.03 | 0.1 | 0.21 | 10.1 | <0.1 | <0.05 | 7 | 0.6 | <0.2 |
| Lacey | 13LS083 | 0.05 | 13 | 83 | 1.04 | 117 | 0.172 | 2 | 4.47 | 0.008 | 0.04 | 0.1 | 0.12 | 10.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS084 | 0.059 | 6 | 76 | 1.05 | 153 | 0.174 | 1 | 4.02 | 0.006 | 0.05 | <0.1 | 0.08 | 7.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS085 | 0.031 | 5 | 56 | 0.82 | 73 | 0.187 | 2 | 3 | 0.008 | 0.03 | 0.1 | 0.07 | 5.7 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS086 | 0.107 | 5 | 185 | 1.81 | 122 | 0.143 | 2 | 2.69 | 0.005 | 0.04 | <0.1 | 0.15 | 8.7 | <0.1 | 0.25 | 7 | 2 | 1.4 |
| Lacey | 13LS087 | 0.106 | 6 | 49 | 0.71 | 70 | 0.16 | 2 | 2.92 | 0.007 | 0.03 | 0.1 | 0.15 | 7.2 | <0.1 | <0.05 | 6 | 0.5 | <0.2 |
| Lacey | 13LS088 | 0.027 | 4 | 27 | 0.32 | 71 | 0.137 | 1 | 1.91 | 0.007 | 0.02 | <0.1 | 0.07 | 3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS089 | 0.073 | 5 | 75 | 0.86 | 65 | 0.159 | 2 | 2.82 | 0.007 | 0.03 | <0.1 | 0.12 | 5.9 | <0.1 | <0.05 | 6 | <0.5 | 0.3 |
| Lacey | 13LS090 | 0.067 | 7 | 92 | 1.11 | 76 | 0.176 | 1 | 3.4 | 0.007 | 0.04 | <0.1 | 0.09 | 8.6 | <0.1 | <0.05 | 7 | 0.6 | 0.7 |
| Lacey | 13LS091 | 0.061 | 5 | 30 | 0.47 | 42 | 0.168 | 2 | 2.24 | 0.008 | 0.02 | <0.1 | 0.07 | 5.1 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| Lacey | 13LS092 | 0.074 | 4 | 34 | 0.46 | 56 | 0.171 | 1 | 2.56 | 0.007 | 0.02 | <0.1 | 0.14 | 3.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS093 | 0.071 | 4 | 43 | 0.49 | 52 | 0.175 | 1 | 3.95 | 0.009 | 0.03 | <0.1 | 0.11 | 4.1 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS094 | 0.117 | 3 | 40 | 0.49 | 56 | 0.129 | <1 | 2.22 | 0.006 | 0.02 | <0.1 | 0.07 | 3.3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS095 | 0.063 | 5 | 55 | 0.75 | 67 | 0.191 | 2 | 2.96 | 0.007 | 0.03 | <0.1 | 0.07 | 7.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS096 | 0.076 | 4 | 84 | 0.94 | 77 | 0.192 | 1 | 2.5 | 0.007 | 0.03 | <0.1 | 0.16 | 5.3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS097 | 0.044 | 7 | 43 | 0.57 | 65 | 0.145 | 2 | 2.23 | 0.008 | 0.03 | <0.1 | 0.07 | 5.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS098 | 0.045 | 17 | 30 | 0.52 | 86 | 0.104 | 2 | 2.54 | 0.008 | 0.04 | <0.1 | 0.14 | 6.9 | <0.1 | <0.05 | 6 | <0.5 | 0.3 |
| Lacey | 13LS099 | 0.079 | 4 | 28 | 0.42 | 58 | 0.141 | <1 | 2.19 | 0.009 | 0.03 | <0.1 | 0.06 | 3.1 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS100 | 0.117 | 4 | 51 | 0.69 | 63 | 0.143 | 1 | 2.47 | 0.008 | 0.03 | <0.1 | 0.05 | 4.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS101 | 0.061 | 4 | 64 | 0.82 | 69 | 0.151 | 3 | 2.91 | 0.008 | 0.03 | <0.1 | 0.07 | 6.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS103 | 0.017 | 4 | 20 | 0.3 | 41 | 0.141 | 1 | 1.52 | 0.01 | 0.02 | <0.1 | 0.03 | 3.5 | <0.1 | <0.05 | 4 | <0.5 | <0.2 |
| Lacey | 13LS104 | 0.063 | 5 | 24 | 0.32 | 49 | 0.147 | <1 | 2.05 | 0.009 | 0.03 | <0.1 | 0.03 | 3.4 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| Lacey | 13LS105 | 0.047 | 6 | 37 | 0.55 | 96 | 0.141 | 2 | 2.37 | 0.01 | 0.03 | <0.1 | 0.08 | 5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS106 | 0.03 | 5 | 32 | 0.39 | 46 | 0.16 | <1 | 2.13 | 0.008 | 0.02 | <0.1 | 0.09 | 4.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS107 | 0.057 | 4 | 31 | 0.51 | 47 | 0.157 | 1 | 2.25 | 0.008 | 0.02 | <0.1 | 0.07 | 3.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS108 | 0.044 | 4 | 33 | 0.48 | 45 | 0.144 | <1 | 2.28 | 0.008 | 0.03 | <0.1 | 0.07 | 3.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS109 | 0.031 | 5 | 37 | 0.46 | 71 | 0.185 | 5 | 3.04 | 0.009 | 0.03 | <0.1 | 0.07 | 6.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS110 | 0.035 | 5 | 28 | 0.38 | 61 | 0.136 | 3 | 2 | 0.007 | 0.04 | <0.1 | 0.05 | 3.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS111 | 0.026 | 5 | 24 | 0.36 | 57 | 0.14 | 3 | 2.06 | 0.008 | 0.04 | <0.1 | 0.04 | 4.2 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| Lacey | 13LS112 | 0.043 | 3 | 35 | 0.44 | 81 | 0.176 | 4 | 2.78 | 0.007 | 0.03 | <0.1 | 0.06 | 4 | <0.1 | <0.05 | 7 | 0.7 | <0.2 |
| Lacey | 13LS113 | 0.029 | 3 | 30 | 0.32 | 73 | 0.176 | 2 | 2.58 | 0.012 | 0.03 | <0.1 | 0.08 | 3.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS114 | 0.025 | 5 | 24 | 0.33 | 50 | 0.171 | 5 | 1.96 | 0.009 | 0.03 | <0.1 | 0.05 | 4.6 | <0.1 | <0.05 | 5 | 0.8 | <0.2 |
| Lacey | 13LS115 | 0.039 | 6 | 29 | 0.38 | 65 | 0.157 | 3 | 2.02 | 0.008 | 0.04 | <0.1 | 0.05 | 5.5 | <0.1 | <0.05 | 5 | 0.7 | <0.2 |
| Lacey | 13LS116 | 0.032 | 4 | 33 | 0.32 | 64 | 0.187 | 3 | 2.36 | 0.007 | 0.02 | <0.1 | 0.06 | 3.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS117 | 0.079 | 6 | 95 | 1.69 | 91 | 0.174 | 4 | 3.16 | 0.01 | 0.06 | <0.1 | 0.22 | 9.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |

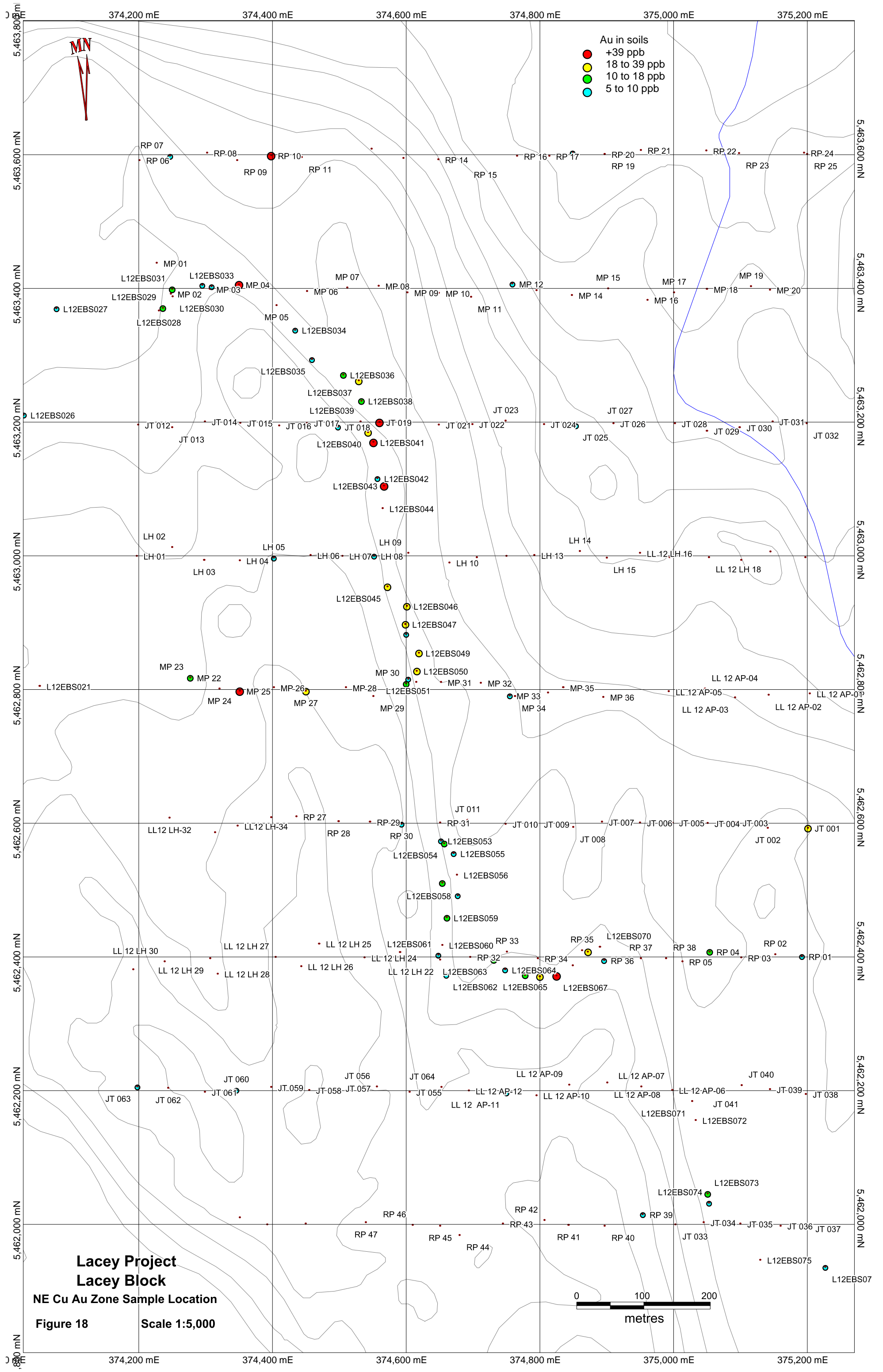
| Project | Sample No | % P | ppm La | ppm Cr | % Mg | ppm Ba | % Ti | ppm B | % Al | % Na | % K | ppm W | ppm Hg | ppm Sc | ppm Tl | % S | ppm Ga | ppm Se | ppm Te |
|---------|-----------|-------|--------|--------|------|--------|-------|-------|------|-------|------|-------|--------|--------|--------|-------|--------|--------|--------|
| Lacey | 13LS118 | 0.027 | 5 | 41 | 0.49 | 101 | 0.185 | 2 | 3.08 | 0.008 | 0.04 | <0.1 | 0.08 | 4.8 | <0.1 | <0.05 | 8 | 0.8 | <0.2 |
| Lacey | 13LS119 | 0.053 | 4 | 41 | 0.78 | 67 | 0.158 | 4 | 2.67 | 0.008 | 0.04 | <0.1 | 0.07 | 6.2 | <0.1 | <0.05 | 6 | 0.9 | <0.2 |
| Lacey | 13LS120 | 0.044 | 6 | 31 | 0.36 | 38 | 0.154 | 2 | 2.57 | 0.007 | 0.02 | <0.1 | 0.05 | 6.4 | <0.1 | <0.05 | 6 | 1.1 | <0.2 |
| Lacey | 13LS121 | 0.032 | 6 | 35 | 0.51 | 69 | 0.149 | 4 | 2.83 | 0.01 | 0.03 | <0.1 | 0.05 | 6.1 | <0.1 | <0.05 | 5 | 1.1 | <0.2 |
| Lacey | 13LS122 | 0.064 | 5 | 60 | 1.19 | 56 | 0.114 | 3 | 2.66 | 0.008 | 0.03 | <0.1 | 0.08 | 7.8 | <0.1 | <0.05 | 6 | 0.6 | <0.2 |
| Lacey | 13LS123 | 0.068 | 4 | 31 | 0.37 | 53 | 0.122 | 1 | 2.55 | 0.006 | 0.02 | <0.1 | 0.09 | 4.7 | <0.1 | <0.05 | 7 | 0.9 | <0.2 |
| Lacey | 13LS124 | 0.079 | 10 | 36 | 0.92 | 73 | 0.107 | 3 | 3.07 | 0.007 | 0.03 | <0.1 | 0.09 | 9.7 | <0.1 | <0.05 | 7 | 1.3 | 0.2 |
| Lacey | 13LS125 | 0.112 | 10 | 26 | 1.01 | 102 | 0.049 | 2 | 3.33 | 0.005 | 0.04 | <0.1 | 0.13 | 9.8 | <0.1 | <0.05 | 8 | 1.1 | <0.2 |
| Lacey | 13LS126 | 0.087 | 11 | 37 | 1.55 | 65 | 0.045 | 4 | 2.82 | 0.005 | 0.04 | <0.1 | 0.25 | 15 | <0.1 | <0.05 | 7 | 1.8 | <0.2 |
| Lacey | 13LS127 | 0.047 | 5 | 29 | 0.75 | 78 | 0.075 | 2 | 2.29 | 0.006 | 0.03 | <0.1 | 0.11 | 9.7 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| Lacey | 13LS128 | 0.077 | 5 | 50 | 0.75 | 80 | 0.166 | 2 | 2.87 | 0.008 | 0.04 | 0.1 | 0.1 | 6 | <0.1 | <0.05 | 7 | 1.3 | <0.2 |
| Lacey | 13LS129 | 0.104 | 22 | 18 | 0.85 | 276 | 0.009 | 5 | 1.74 | 0.008 | 0.04 | 0.1 | 0.37 | 14.2 | <0.1 | <0.05 | 4 | 1 | <0.2 |
| Lacey | 13LS130 | 0.085 | 17 | 32 | 0.85 | 102 | 0.017 | 6 | 1.88 | 0.005 | 0.04 | 0.1 | 0.26 | 16.6 | <0.1 | <0.05 | 4 | 1.3 | <0.2 |
| Lacey | 13LS131 | 0.063 | 7 | 36 | 0.7 | 126 | 0.07 | 2 | 2.91 | 0.006 | 0.03 | 0.1 | 0.42 | 4.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS132 | 0.034 | 6 | 37 | 0.57 | 66 | 0.159 | 2 | 2.78 | 0.007 | 0.03 | <0.1 | 0.4 | 8.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS133 | 0.035 | 7 | 45 | 0.6 | 147 | 0.151 | 2 | 3.01 | 0.008 | 0.03 | <0.1 | 0.28 | 8.4 | <0.1 | <0.05 | 7 | 0.6 | <0.2 |
| Lacey | 13LS134 | 0.03 | 5 | 40 | 0.49 | 77 | 0.192 | 2 | 3.22 | 0.007 | 0.02 | <0.1 | 0.1 | 5.7 | <0.1 | <0.05 | 7 | 0.9 | <0.2 |
| Lacey | 13LS135 | 0.032 | 5 | 52 | 0.64 | 81 | 0.188 | 3 | 3.21 | 0.007 | 0.03 | 0.1 | 0.14 | 6 | <0.1 | <0.05 | 7 | 1.1 | <0.2 |
| Lacey | 13LS136 | 0.052 | 5 | 53 | 0.77 | 91 | 0.073 | 3 | 2.73 | 0.006 | 0.04 | <0.1 | 0.07 | 6.1 | <0.1 | <0.05 | 6 | 0.7 | <0.2 |
| Lacey | 13LS137 | 0.062 | 2 | 31 | 0.24 | 35 | 0.136 | 2 | 2.41 | 0.006 | 0.01 | <0.1 | 0.06 | 3.7 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS138 | 0.04 | 5 | 26 | 0.39 | 57 | 0.113 | 1 | 1.78 | 0.005 | 0.03 | <0.1 | 0.1 | 5.9 | <0.1 | <0.05 | 4 | <0.5 | <0.2 |
| Lacey | 13LS139 | 0.045 | 3 | 55 | 0.49 | 63 | 0.128 | 2 | 3.23 | 0.005 | 0.02 | <0.1 | 0.07 | 4.3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS140 | 0.04 | 3 | 77 | 0.8 | 59 | 0.061 | 2 | 3.27 | 0.005 | 0.03 | <0.1 | 0.1 | 6.6 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS141 | 0.051 | 4 | 64 | 0.77 | 55 | 0.045 | 2 | 2.81 | 0.004 | 0.02 | <0.1 | 0.11 | 5.5 | <0.1 | <0.05 | 6 | 1 | <0.2 |
| Lacey | 13LS142 | 0.045 | 4 | 39 | 0.44 | 37 | 0.166 | 2 | 3.14 | 0.006 | 0.01 | <0.1 | 0.11 | 7.1 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS143 | 0.197 | 4 | 99 | 0.56 | 51 | 0.067 | 2 | 2.98 | 0.004 | 0.02 | <0.1 | 0.12 | 5.2 | <0.1 | <0.05 | 7 | 0.9 | <0.2 |
| Lacey | 13LS144 | 0.078 | 4 | 109 | 1.09 | 60 | 0.096 | 4 | 3.27 | 0.005 | 0.04 | 0.1 | 0.09 | 8.2 | <0.1 | <0.05 | 6 | 0.8 | <0.2 |
| Lacey | 13LS145 | 0.103 | 4 | 146 | 1.24 | 35 | 0.138 | 3 | 4.06 | 0.006 | 0.02 | 0.1 | 0.14 | 10.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS146 | 0.03 | 4 | 60 | 0.63 | 73 | 0.045 | 2 | 2.8 | 0.008 | 0.03 | <0.1 | 0.15 | 6.4 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS147 | 0.022 | 3 | 77 | 0.94 | 81 | 0.059 | 4 | 2.51 | 0.009 | 0.03 | 0.2 | 0.19 | 5.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS148 | 0.079 | 3 | 43 | 0.37 | 67 | 0.057 | 2 | 2.8 | 0.006 | 0.02 | <0.1 | 0.12 | 3.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS149 | 0.111 | 4 | 102 | 1.24 | 84 | 0.027 | 2 | 3.02 | 0.006 | 0.04 | 0.1 | 0.21 | 7.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS150 | 0.035 | 9 | 71 | 0.66 | 84 | 0.112 | 3 | 3.39 | 0.012 | 0.03 | 0.2 | 0.41 | 10.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS152 | 0.09 | 4 | 66 | 0.7 | 52 | 0.101 | 2 | 2.38 | 0.008 | 0.02 | 0.1 | 0.13 | 5.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS153 | 0.057 | 3 | 75 | 0.87 | 53 | 0.105 | 2 | 2.41 | 0.008 | 0.03 | 0.1 | 0.1 | 6 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS154 | 0.045 | 4 | 82 | 0.6 | 43 | 0.132 | 2 | 3.08 | 0.009 | 0.02 | <0.1 | 0.06 | 6.4 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |
| Lacey | 13LS155 | 0.061 | 3 | 97 | 0.72 | 44 | 0.124 | 2 | 2.85 | 0.009 | 0.03 | <0.1 | 0.09 | 4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS156 | 0.045 | 3 | 74 | 0.53 | 73 | 0.052 | 2 | 3.06 | 0.006 | 0.03 | <0.1 | 0.07 | 5.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS157 | 0.041 | 5 | 98 | 0.67 | 122 | 0.114 | 2 | 3.55 | 0.008 | 0.03 | <0.1 | 0.07 | 7 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Lacey | 13LS158 | 0.057 | 4 | 44 | 0.4 | 105 | 0.114 | 2 | 1.98 | 0.008 | 0.02 | <0.1 | 0.04 | 4.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS159 | 0.064 | 4 | 78 | 0.64 | 120 | 0.176 | 3 | 2.6 | 0.01 | 0.04 | <0.1 | 0.04 | 8.3 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | 13LS160 | 0.039 | 4 | 54 | 0.66 | 76 | 0.116 | 3 | 2.58 | 0.008 | 0.03 | <0.1 | 0.06 | 6.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS161 | 0.044 | 5 | 60 | 0.62 | 102 | 0.105 | 3 | 2.78 | 0.008 | 0.04 | <0.1 | 0.07 | 7.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS162 | 0.079 | 5 | 68 | 0.58 | 113 | 0.148 | 2 | 2.82 | 0.009 | 0.04 | <0.1 | 0.12 | 6.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | 13LS163 | 0.058 | 5 | 60 | 0.5 | 65 | 0.147 | 2 | 2.93 | 0.009 | 0.03 | <0.1 | 0.09 | 8.7 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |
| Lacey | 13LS164 | 0.071 | 4 | 74 | 0.64 | 53 | 0.157 | 2 | 3.23 | 0.008 | 0.03 | <0.1 | 0.12 | 6.4 | <0.1 | <0.05 | 9 | 0.8 | <0.2 |
| Lacey | 13LS165 | 0.05 | 5 | 59 | 0.77 | 84 | 0.152 | 3 | 3.07 | 0.009 | 0.04 | <0.1 | 0.07 | 7.4 | <0.1 | <0.05 | 8 | 0.5 | <0.2 |

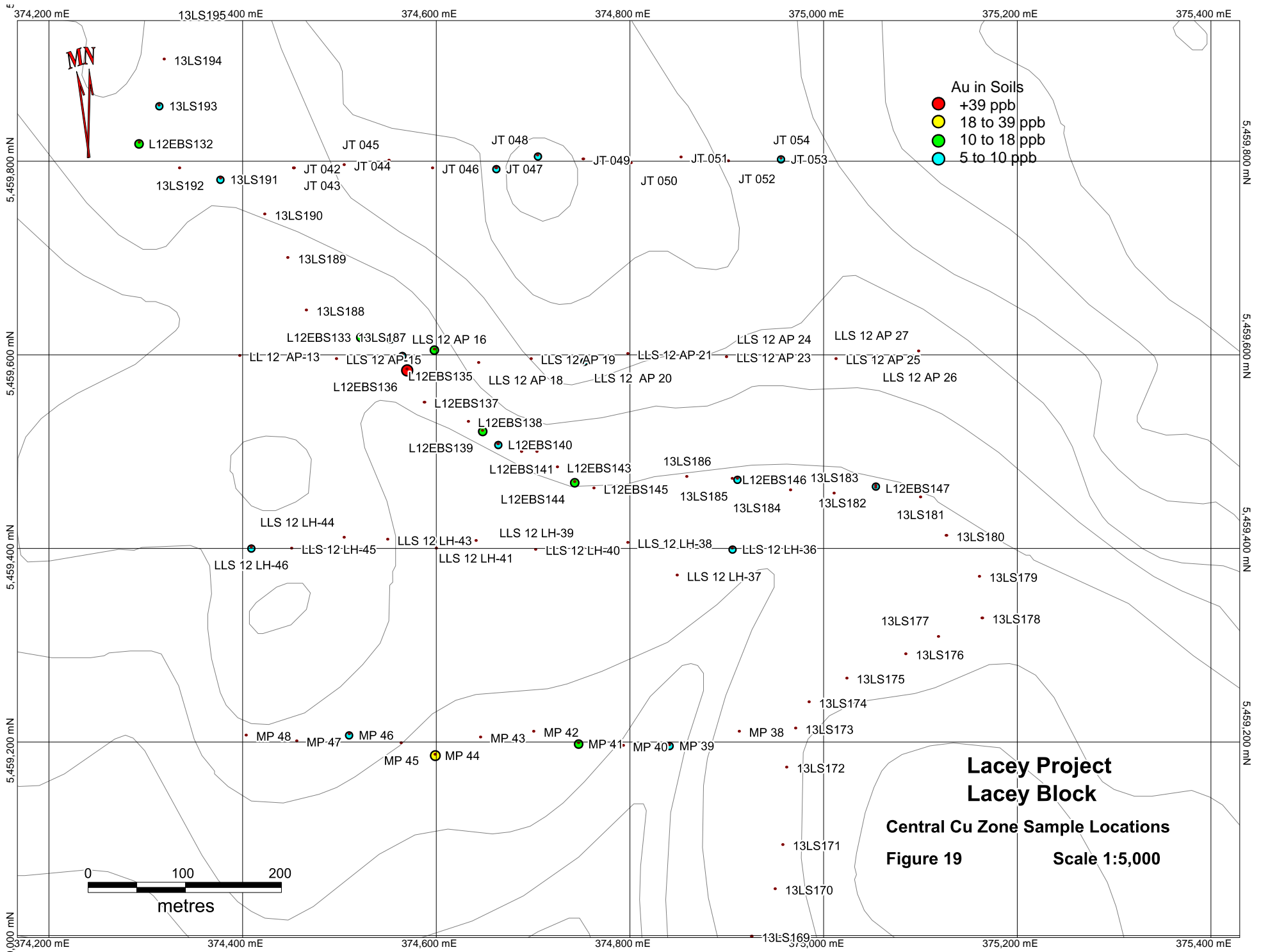
| Project | Sample No | % P | ppm La | ppm Cr | % Mg | ppm Ba | % Ti | ppm B | % Al | % Na | % K | ppm W | ppm Hg | ppm Sc | ppm Tl | % S | ppm Ga | ppm Se | ppm Te |
|---------|-----------|-------|--------|--------|------|--------|-------|-------|------|-------|------|-------|--------|--------|--------|-------|--------|--------|--------|
| Lacey | 13LS166 | 0.049 | 5 | 55 | 0.58 | 108 | 0.113 | 2 | 3.02 | 0.008 | 0.03 | <0.1 | 0.07 | 5.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS167 | 0.048 | 11 | 45 | 0.48 | 136 | 0.103 | 2 | 2.86 | 0.007 | 0.03 | <0.1 | 0.13 | 7.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS168 | 0.136 | 4 | 102 | 0.72 | 132 | 0.076 | 2 | 2.45 | 0.007 | 0.04 | <0.1 | 0.06 | 5.5 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | 13LS169 | 0.054 | 6 | 67 | 0.38 | 173 | 0.021 | 1 | 2.79 | 0.007 | 0.02 | <0.1 | 0.08 | 4.9 | <0.1 | <0.05 | 8 | 0.7 | <0.2 |
| Lacey | 13LS170 | 0.051 | 6 | 142 | 0.5 | 129 | 0.016 | 2 | 3.03 | 0.005 | 0.03 | 0.2 | 0.41 | 8.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS171 | 0.055 | 5 | 81 | 0.77 | 80 | 0.115 | 3 | 3.2 | 0.008 | 0.03 | <0.1 | 0.4 | 8.7 | <0.1 | <0.05 | 8 | 0.9 | <0.2 |
| Lacey | 13LS172 | 0.087 | 5 | 62 | 0.49 | 65 | 0.112 | 2 | 2.79 | 0.007 | 0.03 | <0.1 | 0.09 | 6.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS173 | 0.059 | 6 | 58 | 0.47 | 41 | 0.132 | 2 | 3.39 | 0.008 | 0.03 | <0.1 | 0.17 | 9.2 | <0.1 | <0.05 | 8 | 0.9 | <0.2 |
| Lacey | 13LS174 | 0.155 | 4 | 66 | 0.63 | 41 | 0.087 | 3 | 3.09 | 0.006 | 0.03 | <0.1 | 0.1 | 6 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS175 | 0.071 | 4 | 45 | 0.42 | 39 | 0.101 | 2 | 3.06 | 0.008 | 0.02 | <0.1 | 0.15 | 5.3 | <0.1 | <0.05 | 7 | 0.6 | <0.2 |
| Lacey | 13LS176 | 0.148 | 4 | 58 | 0.28 | 45 | 0.11 | 2 | 2.98 | 0.007 | 0.03 | <0.1 | 0.09 | 5.5 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | 13LS177 | 0.086 | 5 | 50 | 0.44 | 68 | 0.073 | 2 | 2.61 | 0.007 | 0.03 | <0.1 | 0.08 | 4.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS178 | 0.089 | 4 | 50 | 0.51 | 60 | 0.138 | 2 | 2.32 | 0.008 | 0.03 | <0.1 | 0.08 | 5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS179 | 0.034 | 3 | 73 | 0.5 | 47 | 0.162 | 1 | 2.3 | 0.007 | 0.02 | <0.1 | 0.05 | 4.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS180 | 0.125 | 3 | 61 | 0.6 | 37 | 0.106 | 1 | 2.19 | 0.005 | 0.02 | 0.1 | 0.12 | 4.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS181 | 0.028 | 3 | 82 | 1.12 | 63 | 0.135 | 3 | 3.14 | 0.006 | 0.02 | <0.1 | 0.13 | 5.5 | <0.1 | <0.05 | 6 | 0.6 | <0.2 |
| Lacey | 13LS182 | 0.067 | 5 | 52 | 0.63 | 41 | 0.163 | 5 | 2.6 | 0.008 | 0.03 | 0.2 | 0.12 | 7.3 | 0.2 | <0.05 | 7 | 0.8 | <0.2 |
| Lacey | 13LS183 | 0.04 | 4 | 34 | 0.24 | 61 | 0.131 | <1 | 2.02 | 0.006 | 0.02 | <0.1 | 0.16 | 2.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS184 | 0.03 | 5 | 37 | 0.4 | 68 | 0.138 | <1 | 2.82 | 0.008 | 0.02 | <0.1 | 0.11 | 4 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS185 | 0.068 | 5 | 252 | 1.98 | 84 | 0.006 | 1 | 3.79 | 0.004 | 0.06 | <0.1 | 0.4 | 14.2 | <0.1 | <0.05 | 8 | 1.3 | <0.2 |
| Lacey | 13LS186 | 0.078 | 5 | 91 | 0.68 | 51 | 0.171 | 2 | 3.49 | 0.007 | 0.03 | <0.1 | 0.08 | 5.6 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS187 | 0.039 | 6 | 52 | 0.61 | 84 | 0.182 | 3 | 3.6 | 0.008 | 0.03 | <0.1 | 0.15 | 7.3 | <0.1 | <0.05 | 9 | 0.7 | <0.2 |
| Lacey | 13LS188 | 0.049 | 5 | 40 | 0.43 | 82 | 0.124 | <1 | 2.64 | 0.007 | 0.02 | <0.1 | 0.1 | 5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS189 | 0.086 | 5 | 42 | 0.48 | 93 | 0.112 | 2 | 3.72 | 0.006 | 0.04 | <0.1 | 0.09 | 4.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS190 | 0.064 | 7 | 37 | 0.39 | 117 | 0.092 | <1 | 3.59 | 0.006 | 0.04 | <0.1 | 0.17 | 4.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS191 | 0.053 | 4 | 36 | 0.35 | 89 | 0.166 | <1 | 2.43 | 0.007 | 0.02 | <0.1 | 0.11 | 4.3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS192 | 0.096 | 3 | 44 | 0.45 | 99 | 0.195 | <1 | 4.42 | 0.006 | 0.02 | <0.1 | 0.12 | 4.3 | <0.1 | <0.05 | 9 | 0.9 | <0.2 |
| Lacey | 13LS193 | 0.06 | 6 | 43 | 0.43 | 123 | 0.121 | 3 | 2.83 | 0.006 | 0.03 | <0.1 | 0.35 | 7.3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS194 | 0.068 | 9 | 54 | 0.36 | 69 | 0.212 | <1 | 3.53 | 0.007 | 0.02 | <0.1 | 0.11 | 8.9 | <0.1 | <0.05 | 9 | 0.8 | <0.2 |
| Lacey | 13LS195 | 0.031 | 5 | 51 | 0.49 | 50 | 0.209 | 2 | 3.2 | 0.006 | 0.03 | <0.1 | 0.12 | 7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | 13LS196 | 0.056 | 4 | 43 | 0.28 | 80 | 0.183 | <1 | 3.26 | 0.006 | 0.02 | <0.1 | 0.11 | 3.8 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Lacey | 13LS197 | 0.056 | 3 | 37 | 0.33 | 90 | 0.159 | 2 | 2.76 | 0.006 | 0.03 | <0.1 | 0.08 | 3.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS198 | 0.051 | 6 | 56 | 0.58 | 65 | 0.219 | <1 | 4.27 | 0.006 | 0.02 | <0.1 | 0.13 | 9.1 | <0.1 | <0.05 | 9 | 0.6 | <0.2 |
| Lacey | 13LS199 | 0.017 | 9 | 58 | 0.69 | 85 | 0.187 | 1 | 3.04 | 0.007 | 0.02 | <0.1 | 0.05 | 15.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS200 | 0.062 | 5 | 41 | 0.58 | 118 | 0.069 | <1 | 2.99 | 0.007 | 0.03 | <0.1 | 0.17 | 5.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS201 | 0.042 | 4 | 41 | 0.37 | 81 | 0.132 | <1 | 2.22 | 0.007 | 0.02 | <0.1 | 0.05 | 3.6 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS202 | 0.053 | 4 | 50 | 0.55 | 113 | 0.073 | 4 | 3.34 | 0.006 | 0.03 | <0.1 | 0.14 | 6.2 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |
| Lacey | 13LS204 | 0.038 | 5 | 50 | 0.54 | 96 | 0.196 | 2 | 2.98 | 0.007 | 0.02 | <0.1 | 0.13 | 6.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS205 | 0.024 | 3 | 52 | 0.35 | 80 | 0.163 | <1 | 2.66 | 0.006 | 0.02 | <0.1 | 0.09 | 3.1 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS206 | 0.04 | 9 | 148 | 0.41 | 96 | 0.029 | <1 | 2.24 | 0.005 | 0.03 | 0.3 | 1 | 23.6 | <0.1 | <0.05 | 5 | 1 | <0.2 |
| Lacey | 13LS207 | 0.037 | 8 | 126 | 1.01 | 89 | 0.05 | <1 | 2.18 | 0.007 | 0.03 | 0.1 | 0.52 | 17.8 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| Lacey | 13LS208 | 0.035 | 15 | 90 | 0.75 | 185 | 0.115 | 3 | 3.2 | 0.009 | 0.02 | <0.1 | 0.17 | 17.5 | <0.1 | <0.05 | 7 | 0.8 | <0.2 |
| Lacey | 13LS209 | 0.032 | 7 | 87 | 1.26 | 113 | 0.109 | 3 | 2.95 | 0.007 | 0.03 | <0.1 | 0.13 | 10.4 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS210 | 0.029 | 10 | 68 | 0.49 | 123 | 0.104 | 2 | 3.16 | 0.007 | 0.04 | 0.1 | 0.17 | 11 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Lacey | 13LS211 | 0.021 | 7 | 63 | 0.78 | 143 | 0.124 | 1 | 2.62 | 0.009 | 0.04 | <0.1 | 0.49 | 12.9 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Lacey | 13LS212 | 0.058 | 8 | 102 | 0.58 | 99 | 0.064 | 1 | 3.57 | 0.008 | 0.03 | 0.3 | 0.38 | 9.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Lacey | 13LS213 | 0.028 | 6 | 69 | 0.98 | 88 | 0.049 | 2 | 2.35 | 0.007 | 0.03 | 0.1 | 0.24 | 10.1 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |

| Project | Sample No | % 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 |
|-----------|--------------|-------|--------|--------|------|--------|-------|-------|------|-------|------|-------|--------|--------|--------|-------|--------|--------|--------|
| Limestone | AP 38 | 0.095 | 7 | 133 | 1.69 | 35 | 0.263 | 4 | 7.01 | 0.008 | 0.03 | <0.1 | 0.19 | 25.7 | <0.1 | <0.05 | 14 | 1.9 | <0.2 |
| Limestone | AP 39 | 0.093 | 4 | 113 | 0.96 | 65 | 0.091 | 2 | 7.37 | 0.009 | 0.04 | <0.1 | 0.16 | 17 | <0.1 | 0.1 | 18 | 1.6 | <0.2 |
| Limestone | AP 40 | 0.065 | 5 | 126 | 1.22 | 33 | 0.484 | 3 | 6.91 | 0.009 | 0.02 | <0.1 | 0.24 | 21.8 | <0.1 | <0.05 | 17 | 1.8 | <0.2 |
| Limestone | AP 41 | 0.087 | 6 | 92 | 0.66 | 14 | 0.378 | 2 | 6.07 | 0.006 | 0.02 | <0.1 | 0.31 | 19.1 | <0.1 | <0.05 | 14 | 2.7 | <0.2 |
| Limestone | AP 42 | 0.107 | 4 | 89 | 1.01 | 29 | 0.518 | 2 | 5.27 | 0.004 | 0.03 | <0.1 | 0.21 | 12.5 | <0.1 | <0.05 | 19 | 1 | <0.2 |
| Limestone | AP 43 | 0.081 | 6 | 98 | 1.62 | 36 | 0.165 | 4 | 6.17 | 0.008 | 0.03 | <0.1 | 0.27 | 22.7 | <0.1 | 0.06 | 11 | 1.7 | <0.2 |
| Limestone | AP 44 | 0.11 | 10 | 108 | 1.59 | 57 | 0.131 | 4 | 4.61 | 0.012 | 0.03 | <0.1 | 0.25 | 22.4 | <0.1 | 0.09 | 14 | 1.6 | <0.2 |
| Limestone | AP 45 | 0.066 | 5 | 70 | 2.11 | 41 | 0.219 | 5 | 3.79 | 0.013 | 0.03 | <0.1 | 0.17 | 16.7 | <0.1 | 0.08 | 12 | <0.5 | <0.2 |
| Limestone | LRS AP 46 | 0.052 | 5 | 98 | 1.47 | 26 | 0.34 | 3 | 6.04 | 0.006 | 0.02 | <0.1 | 0.18 | 13.8 | <0.1 | <0.05 | 14 | 1.1 | <0.2 |
| Limestone | LRS AP 47 | 0.057 | 6 | 93 | 2.06 | 32 | 0.134 | 4 | 4.37 | 0.009 | 0.02 | <0.1 | 0.15 | 16.6 | <0.1 | <0.05 | 13 | 1.4 | <0.2 |
| Limestone | LRS AP 48 | 0.068 | 5 | 104 | 0.7 | 19 | 0.316 | 2 | 5.46 | 0.006 | 0.02 | 0.1 | 0.24 | 14.1 | <0.1 | <0.05 | 15 | 1.9 | <0.2 |
| Limestone | LRS AP 49 | 0.072 | 7 | 97 | 1.29 | 19 | 0.211 | 3 | 7.44 | 0.007 | 0.02 | <0.1 | 0.38 | 18.1 | <0.1 | <0.05 | 11 | 1.8 | <0.2 |
| Limestone | LRS AP 50 | 0.06 | 3 | 96 | 0.78 | 15 | 0.638 | 2 | 4.97 | 0.005 | 0.02 | <0.1 | 0.28 | 11 | <0.1 | <0.05 | 20 | 1.3 | <0.2 |
| Limestone | LRS AP 51 | 0.066 | 5 | 79 | 1.36 | 18 | 0.295 | 3 | 5.72 | 0.005 | 0.02 | 0.2 | 0.24 | 12.8 | <0.1 | <0.05 | 10 | 1.5 | <0.2 |
| Limestone | LRS AP 52 | 0.058 | 8 | 82 | 1.39 | 41 | 0.277 | 3 | 4.88 | 0.005 | 0.03 | <0.1 | 0.16 | 10.3 | <0.1 | <0.05 | 13 | 1 | <0.2 |
| Limestone | LRS AP 53 | 0.058 | 5 | 15 | 0.5 | 56 | 0.002 | 1 | 3.29 | 0.003 | 0.04 | <0.1 | 0.19 | 5 | <0.1 | <0.05 | 8 | 2.5 | <0.2 |
| Limestone | LRS AP 54 | 0.063 | 4 | 81 | 0.43 | 17 | 0.272 | <1 | 4.42 | 0.005 | 0.02 | <0.1 | 0.28 | 9.4 | <0.1 | <0.05 | 18 | 1.2 | <0.2 |
| Limestone | LRS AP 55 | 0.068 | 5 | 110 | 2.13 | 42 | 0.345 | 2 | 5.99 | 0.006 | 0.03 | <0.1 | 0.2 | 21.7 | <0.1 | <0.05 | 16 | 1.1 | <0.2 |
| Limestone | LRS 12 LH-47 | 0.11 | 3 | 65 | 1.01 | 21 | 0.244 | 2 | 3.32 | 0.016 | 0.03 | <0.1 | 0.08 | 8.4 | <0.1 | <0.05 | 11 | 0.6 | <0.2 |
| Limestone | LRS 12 LH-48 | 0.107 | 6 | 77 | 0.88 | 45 | 0.145 | 5 | 5.53 | 0.009 | 0.03 | <0.1 | 0.14 | 11.8 | <0.1 | <0.05 | 8 | 2.3 | <0.2 |
| Limestone | LRS 12 LH-49 | 0.122 | 4 | 66 | 1.22 | 26 | 0.198 | 4 | 4.17 | 0.007 | 0.03 | 0.1 | 0.2 | 8.6 | <0.1 | <0.05 | 11 | 1 | <0.2 |
| Limestone | LRS 12 LH-50 | 0.071 | 2 | 54 | 0.54 | 12 | 0.357 | 1 | 1.89 | 0.008 | 0.02 | <0.1 | 0.06 | 4.4 | <0.1 | <0.05 | 17 | <0.5 | <0.2 |
| Limestone | LRS 12 LH-51 | 0.054 | 2 | 38 | 0.48 | 15 | 0.281 | 2 | 1.49 | 0.008 | 0.03 | <0.1 | 0.1 | 3.8 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| Limestone | LRS 12 LH-52 | 0.044 | 2 | 53 | 0.56 | 23 | 0.292 | 2 | 2.03 | 0.008 | 0.03 | <0.1 | 0.06 | 4 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| Limestone | LRS 12 LH-53 | 0.047 | 3 | 73 | 1.64 | 21 | 0.286 | 4 | 2.44 | 0.02 | 0.03 | 0.1 | 0.21 | 9.9 | <0.1 | <0.05 | 9 | 1 | 0.2 |
| Limestone | LRS 12 LH-54 | 0.062 | 3 | 46 | 0.54 | 24 | 0.246 | 2 | 2.53 | 0.006 | 0.02 | <0.1 | 0.06 | 4.1 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Limestone | LRS 12 LH-55 | 0.037 | 3 | 52 | 0.57 | 29 | 0.255 | 2 | 2.93 | 0.007 | 0.02 | <0.1 | 0.12 | 5.3 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Limestone | LRS 12 LH-56 | 0.069 | 3 | 60 | 0.73 | 15 | 0.215 | 2 | 3.55 | 0.009 | 0.02 | <0.1 | 0.1 | 7.2 | <0.1 | <0.05 | 12 | 0.5 | <0.2 |
| Limestone | LRS 12 LH-57 | 0.043 | 2 | 59 | 0.98 | 63 | 0.231 | 3 | 3.38 | 0.009 | 0.02 | <0.1 | 0.19 | 9.6 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Limestone | LRS 12 LH-58 | 0.051 | 5 | 71 | 1.42 | 59 | 0.108 | 3 | 3.79 | 0.008 | 0.04 | <0.1 | 0.09 | 8.5 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Limestone | LRS 12 LH-59 | 0.038 | 3 | 65 | 1 | 28 | 0.177 | 4 | 2.9 | 0.024 | 0.02 | <0.1 | 0.38 | 8.6 | <0.1 | <0.05 | 11 | 1.2 | <0.2 |
| Limestone | LRS 12 LH 61 | 0.043 | 6 | 61 | 0.89 | 42 | 0.142 | 6 | 3.72 | 0.009 | 0.02 | 0.1 | 0.24 | 10.7 | <0.1 | <0.05 | 11 | 0.9 | <0.2 |
| Limestone | LRS 12 LH 62 | 0.09 | 2 | 44 | 0.39 | 30 | 0.285 | 1 | 2.42 | 0.008 | 0.02 | <0.1 | 0.19 | 4.9 | <0.1 | <0.05 | 16 | <0.5 | <0.2 |
| Limestone | LRS 12 LH 63 | 0.089 | 3 | 77 | 0.93 | 27 | 0.135 | 3 | 3.86 | 0.005 | 0.03 | 0.1 | 0.15 | 6.4 | <0.1 | <0.05 | 11 | 1 | <0.2 |
| Limestone | LRS 12 LH 64 | 0.05 | 6 | 98 | 1.5 | 44 | 0.073 | 3 | 2.71 | 0.007 | 0.04 | <0.1 | 0.06 | 10.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Limestone | LRS 12 LH 65 | 0.049 | 3 | 55 | 0.7 | 42 | 0.129 | 3 | 2.11 | 0.012 | 0.03 | <0.1 | 0.07 | 4.8 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Limestone | LRS 12 LH 66 | 0.054 | 2 | 37 | 0.41 | 12 | 0.234 | 1 | 1.59 | 0.015 | 0.02 | <0.1 | 0.05 | 3.5 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Limestone | LRS 12 LH 67 | 0.096 | 3 | 102 | 1.04 | 19 | 0.28 | 2 | 4.62 | 0.007 | 0.02 | 0.2 | 0.12 | 10 | <0.1 | <0.05 | 11 | 1.2 | <0.2 |
| Limestone | LRS 12 LH 68 | 0.061 | 3 | 65 | 1.13 | 23 | 0.201 | 4 | 3.66 | 0.013 | 0.03 | <0.1 | 0.14 | 8.9 | <0.1 | <0.05 | 9 | 0.6 | <0.2 |
| Limestone | LRS 12 LH 69 | 0.047 | 4 | 103 | 1.43 | 18 | 0.22 | 3 | 4.35 | 0.007 | 0.03 | 0.1 | 0.16 | 14.1 | <0.1 | <0.05 | 8 | 1.5 | <0.2 |
| Limestone | LRS 12 LH 70 | 0.055 | 3 | 94 | 1 | 16 | 0.241 | 2 | 5.13 | 0.007 | 0.02 | <0.1 | 0.15 | 7.4 | <0.1 | <0.05 | 11 | 1.1 | <0.2 |
| Limestone | LRS 12 LH 71 | 0.06 | 4 | 101 | 1.37 | 29 | 0.173 | 2 | 4.21 | 0.006 | 0.02 | <0.1 | 0.2 | 19.3 | <0.1 | <0.05 | 12 | 0.5 | <0.2 |
| Limestone | LRS 12 LH 72 | 0.044 | 4 | 75 | 1.04 | 30 | 0.107 | 2 | 3.32 | 0.005 | 0.03 | 0.1 | 0.12 | 8.3 | <0.1 | <0.05 | 8 | 0.7 | <0.2 |
| Limestone | LRS 12 LH 74 | 0.057 | 3 | 66 | 1.5 | 22 | 0.211 | 3 | 2.62 | 0.006 | 0.04 | 0.1 | 0.06 | 7.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| Limestone | LRS 12 LH 76 | 0.043 | 3 | 69 | 0.83 | 28 | 0.203 | 2 | 3.16 | 0.005 | 0.03 | <0.1 | 0.12 | 5.8 | <0.1 | <0.05 | 11 | 0.5 | <0.2 |
| Limestone | LRS 12 LH 77 | 0.064 | 4 | 77 | 0.98 | 28 | 0.121 | 2 | 3.95 | 0.005 | 0.03 | 0.1 | 0.21 | 9.1 | <0.1 | <0.05 | 9 | 1.1 | <0.2 |
| Limestone | LRS 12 LH 78 | 0.052 | 3 | 88 | 1.55 | 25 | 0.208 | 3 | 3.53 | 0.005 | 0.04 | 0.1 | 0.13 | 8.2 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |

| Project | Sample No | % 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 |
|-----------|--------------|-------|--------|--------|------|--------|-------|-------|------|-------|-------|-------|--------|--------|--------|-------|--------|--------|--------|
| Limestone | LRS 12 RP 36 | 0.043 | 2 | 43 | 0.23 | 34 | 0.486 | <1 | 1.3 | 0.008 | 0.02 | <0.1 | 0.1 | 3.9 | <0.1 | <0.05 | 21 | <0.5 | <0.2 |
| Limestone | LRS 12 RP 37 | 0.076 | 5 | 86 | 1.09 | 104 | 0.215 | 3 | 5.33 | 0.01 | 0.02 | <0.1 | 0.28 | 16.6 | <0.1 | <0.05 | 10 | 2 | <0.2 |
| Limestone | LRS 12 RP 38 | 0.076 | 5 | 88 | 0.88 | 92 | 0.298 | 2 | 4.95 | 0.011 | 0.02 | <0.1 | 0.3 | 15.9 | <0.1 | <0.05 | 12 | 1.5 | <0.2 |
| Limestone | LRS 12 RP 39 | 0.07 | 4 | 75 | 0.99 | 97 | 0.258 | 3 | 4.32 | 0.018 | 0.03 | <0.1 | 0.25 | 12.8 | <0.1 | <0.05 | 11 | 1.6 | <0.2 |
| Limestone | LRS 12 RP 40 | 0.099 | 2 | 86 | 0.5 | 14 | 0.327 | 1 | 3.09 | 0.006 | 0.02 | <0.1 | 0.27 | 6.1 | <0.1 | <0.05 | 19 | 1 | <0.2 |
| Limestone | LRS 12 RP 41 | 0.045 | 2 | 33 | 0.15 | 21 | 0.415 | 2 | 0.6 | 0.01 | 0.02 | <0.1 | 0.17 | 3.1 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| Limestone | LRS 12 RP 42 | 0.077 | 4 | 97 | 0.36 | 26 | 0.392 | 2 | 3.03 | 0.006 | 0.02 | <0.1 | 0.19 | 7.3 | <0.1 | <0.05 | 20 | 0.7 | <0.2 |
| Limestone | LRS 12 RP 43 | 0.08 | 4 | 95 | 0.32 | 26 | 0.385 | 2 | 3.05 | 0.008 | 0.02 | <0.1 | 0.18 | 7.8 | <0.1 | <0.05 | 20 | 0.7 | <0.2 |
| Limestone | LRS 12 RP 44 | 0.1 | 11 | 96 | 0.83 | 89 | 0.156 | 4 | 5.1 | 0.009 | 0.02 | <0.1 | 0.25 | 19.9 | <0.1 | <0.05 | 14 | 2.7 | <0.2 |
| Limestone | LRS 12 RP 45 | 0.106 | 2 | 93 | 0.54 | 15 | 0.531 | 2 | 3.8 | 0.006 | 0.03 | <0.1 | 0.21 | 6.6 | <0.1 | <0.05 | 25 | 0.7 | <0.2 |
| Limestone | LRS 12 RP 46 | 0.062 | 5 | 122 | 1.31 | 16 | 0.338 | 2 | 7.5 | 0.006 | 0.02 | <0.1 | 0.26 | 21.2 | <0.1 | <0.05 | 12 | 1.8 | <0.2 |
| Limestone | LRS 12 RP 47 | 0.061 | 5 | 121 | 1.33 | 17 | 0.335 | 2 | 7.15 | 0.006 | 0.02 | <0.1 | 0.25 | 20.9 | <0.1 | <0.05 | 11 | 2 | <0.2 |
| Limestone | LRS 12 RP 48 | 0.063 | 5 | 111 | 1.48 | 16 | 0.308 | 3 | 7.61 | 0.006 | 0.02 | <0.1 | 0.24 | 21.8 | <0.1 | <0.05 | 11 | 1.9 | <0.2 |
| Limestone | LRS 12 RP 49 | 0.104 | 5 | 50 | 1.27 | 82 | 0.102 | 2 | 6.26 | 0.006 | 0.03 | <0.1 | 0.26 | 10.3 | <0.1 | <0.05 | 10 | 1.2 | <0.2 |
| Limestone | LRS 12 RP 50 | 0.207 | 5 | 35 | 0.79 | 63 | 0.055 | <1 | 6.87 | 0.005 | 0.04 | 0.1 | 0.26 | 7.4 | <0.1 | <0.05 | 10 | 1.7 | <0.2 |
| Limestone | LRS 12 RP 51 | 0.092 | 10 | 62 | 2.46 | 163 | 0.177 | 4 | 5.31 | 0.006 | 0.06 | 0.1 | 0.18 | 17.8 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| Limestone | LRS 12 RP 52 | 0.099 | 6 | 97 | 0.83 | 42 | 0.22 | 2 | 5.89 | 0.006 | 0.02 | <0.1 | 0.28 | 13.7 | <0.1 | <0.05 | 13 | 1.6 | <0.2 |
| Limestone | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Limestone | JT 066 | 0.076 | 3 | 139 | 1.9 | 39 | 0.239 | 3 | 4.76 | 0.006 | 0.03 | <0.1 | 0.08 | 12.2 | <0.1 | <0.05 | 15 | 0.5 | <0.2 |
| Limestone | JT 067 | 0.063 | 2 | 109 | 0.63 | 23 | 0.17 | <1 | 2.46 | 0.006 | 0.03 | <0.1 | 0.08 | 8.3 | <0.1 | <0.05 | 15 | <0.5 | <0.2 |
| Limestone | JT 068 | 0.092 | 6 | 99 | 2.03 | 53 | 0.218 | 2 | 5.51 | 0.008 | 0.05 | 0.1 | 0.27 | 18.1 | <0.1 | <0.05 | 13 | 0.8 | <0.2 |
| Limestone | JT 069 | 0.093 | 3 | 99 | 1.22 | 31 | 0.251 | <1 | 2.59 | 0.006 | 0.03 | <0.1 | 0.1 | 10.6 | <0.1 | <0.05 | 19 | <0.5 | <0.2 |
| Limestone | JT 070 | 0.077 | 3 | 55 | 1.08 | 42 | 0.592 | 2 | 4.07 | 0.009 | 0.02 | <0.1 | 0.17 | 8.4 | <0.1 | <0.05 | 16 | 1 | 0.4 |
| Limestone | JT 071 | 0.084 | 6 | 102 | 1.88 | 25 | 0.565 | 5 | 4.93 | 0.009 | 0.03 | <0.1 | 0.14 | 19 | <0.1 | <0.05 | 13 | 0.7 | <0.2 |
| Limestone | JT 072 | 0.074 | 2 | 142 | 0.66 | 25 | 0.467 | 2 | 3.18 | 0.006 | 0.02 | 0.1 | 0.12 | 6.9 | <0.1 | <0.05 | 17 | 0.5 | <0.2 |
| Limestone | JT 073 | 0.109 | 3 | 81 | 0.84 | 13 | 0.769 | 2 | 5.78 | 0.006 | 0.02 | <0.1 | 0.17 | 13.4 | <0.1 | <0.05 | 15 | 1.3 | <0.2 |
| Limestone | JT 074 | 0.106 | 2 | 81 | 0.37 | 10 | 0.716 | 1 | 2.49 | 0.006 | 0.02 | <0.1 | 0.08 | 5.7 | <0.1 | <0.05 | 28 | <0.5 | <0.2 |
| Limestone | JT 075 | 0.071 | 2 | 84 | 0.35 | 14 | 0.848 | <1 | 2.55 | 0.005 | 0.02 | <0.1 | 0.07 | 4.9 | <0.1 | <0.05 | 29 | <0.5 | <0.2 |
| Limestone | JT 076 | 0.119 | 4 | 71 | 0.97 | 28 | 0.203 | 2 | 6.34 | 0.006 | 0.02 | 0.1 | 0.4 | 16.1 | <0.1 | <0.05 | 11 | 2.8 | 0.4 |
| Limestone | JT 077 | 0.071 | 11 | 69 | 0.99 | 36 | 0.334 | 2 | 4.77 | 0.007 | 0.02 | <0.1 | 0.38 | 15.7 | <0.1 | <0.05 | 16 | 3 | <0.2 |
| Limestone | JT 078 | 0.092 | 4 | 120 | 1.29 | 28 | 0.342 | 3 | 6.16 | 0.008 | 0.02 | <0.1 | 0.2 | 17.8 | <0.1 | <0.05 | 14 | 1.5 | <0.2 |
| Limestone | JT 079 | 0.072 | 4 | 56 | 0.75 | 34 | 0.161 | 2 | 4.3 | 0.005 | 0.02 | <0.1 | 0.16 | 8.6 | <0.1 | <0.05 | 10 | 1.1 | <0.2 |
| Limestone | JT 080 | 0.042 | 4 | 70 | 1.02 | 60 | 0.168 | 1 | 3.08 | 0.007 | 0.02 | 0.1 | 0.11 | 8.3 | <0.1 | <0.05 | 13 | 0.6 | <0.2 |
| Limestone | JT 081 | 0.066 | 3 | 59 | 0.55 | 41 | 0.407 | <1 | 2.42 | 0.008 | 0.02 | <0.1 | 0.14 | 5.3 | <0.1 | <0.05 | 18 | <0.5 | <0.2 |
| Limestone | JT 082 | 0.066 | 3 | 96 | 1.41 | 95 | 0.239 | <1 | 5.34 | 0.006 | 0.02 | <0.1 | 0.13 | 11.8 | <0.1 | <0.05 | 16 | 0.6 | <0.2 |
| Limestone | JT 083 | 0.073 | 2 | 90 | 1.26 | 59 | 0.255 | <1 | 5.01 | 0.004 | 0.03 | <0.1 | 0.1 | 8.1 | <0.1 | <0.05 | 16 | 0.5 | <0.2 |
| Limestone | JT 084 | 0.085 | 2 | 55 | 0.35 | 26 | 0.598 | <1 | 1.96 | 0.005 | 0.01 | <0.1 | 0.08 | 4 | <0.1 | <0.05 | 17 | <0.5 | <0.2 |
| Limestone | JT 085 | 0.095 | 5 | 88 | 1.31 | 45 | 0.404 | 2 | 7.13 | 0.005 | 0.02 | 0.8 | 0.16 | 15.1 | <0.1 | <0.05 | 16 | 0.8 | <0.2 |
| Limestone | JT 086 | 0.097 | 4 | 73 | 0.83 | 33 | 0.23 | 1 | 4.39 | 0.004 | 0.02 | <0.1 | 0.19 | 8.5 | <0.1 | <0.05 | 14 | 0.6 | <0.2 |
| Limestone | JT 087 | 0.106 | 5 | 89 | 1.16 | 58 | 0.382 | 1 | 4.28 | 0.006 | 0.02 | <0.1 | 0.22 | 12.9 | <0.1 | <0.05 | 16 | 0.6 | <0.2 |
| Limestone | JT 088 | 0.087 | 3 | 107 | 1.03 | 18 | 0.434 | 3 | 7.66 | 0.004 | <0.01 | <0.1 | 0.17 | 20.6 | <0.1 | <0.05 | 11 | 1 | <0.2 |
| Limestone | MP 01 | 0.068 | 7 | 79 | 1.57 | 105 | 0.299 | 6 | 3.31 | 0.013 | 0.07 | 0.1 | 0.31 | 13.8 | <0.1 | <0.05 | 10 | 1.1 | <0.2 |
| Limestone | MP 02 | 0.048 | 3 | 85 | 0.78 | 22 | 0.633 | 2 | 3.5 | 0.012 | 0.02 | 0.1 | 0.12 | 8.6 | <0.1 | <0.05 | 15 | 0.6 | 0.2 |
| Limestone | MP 03 | 0.057 | 3 | 71 | 0.94 | 17 | 0.681 | 2 | 3.87 | 0.011 | 0.02 | 0.1 | 0.15 | 9.4 | <0.1 | <0.05 | 16 | <0.5 | <0.2 |
| Limestone | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Limestone | MP 04 | 0.068 | 3 | 88 | 0.56 | 15 | 0.76 | 2 | 4.6 | 0.013 | 0.02 | <0.1 | 0.1 | 10.5 | <0.1 | <0.05 | 20 | <0.5 | <0.2 |
| Limestone | MP 05 | 0.046 | 6 | 88 | 0.67 | 78 | 0.038 | 7 | 2.65 | 0.012 | 0.04 | <0.1 | 0.18 | 10.2 | <0.1 | <0.05 | 10 | 4 | <0.2 |

| Project | Sample No | % 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 |
|-----------|-----------|-------|--------|--------|------|--------|-------|-------|------|-------|-------|-------|--------|--------|--------|-------|--------|--------|--------|
| Limestone | MP 06 | 0.042 | 5 | 97 | 0.78 | 74 | 0.032 | 4 | 3.16 | 0.013 | 0.03 | <0.1 | 0.16 | 11.5 | <0.1 | <0.05 | 12 | 2.6 | <0.2 |
| Limestone | MP 07 | 0.057 | 4 | 114 | 2.38 | 37 | 0.456 | 7 | 4.04 | 0.023 | 0.03 | 0.1 | 0.17 | 14.8 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| Limestone | MP 08 | 0.074 | 4 | 115 | 1.9 | 27 | 0.443 | 6 | 4.95 | 0.015 | 0.02 | 0.2 | 0.15 | 14.9 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Limestone | MP 09 | 0.064 | 5 | 80 | 0.89 | 33 | 0.515 | 2 | 4.02 | 0.011 | 0.02 | <0.1 | 0.13 | 9.1 | <0.1 | <0.05 | 13 | <0.5 | <0.2 |
| Limestone | MP 10 | 0.067 | 3 | 44 | 0.28 | 19 | 0.333 | 2 | 1.3 | 0.008 | 0.02 | <0.1 | 0.08 | 2.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| Limestone | MP 11 | 0.084 | 3 | 87 | 0.86 | 20 | 0.434 | 2 | 4.58 | 0.009 | 0.02 | 0.1 | 0.17 | 11.5 | <0.1 | <0.05 | 11 | 1.1 | <0.2 |
| Limestone | MP 12 | 0.085 | 4 | 58 | 0.59 | 32 | 0.406 | 2 | 2.82 | 0.011 | 0.02 | <0.1 | 0.15 | 6.1 | <0.1 | <0.05 | 11 | 0.8 | <0.2 |
| Limestone | MP 13 | 0.058 | 3 | 95 | 0.85 | 41 | 0.591 | 2 | 3.76 | 0.01 | 0.02 | 0.2 | 0.1 | 7.5 | <0.1 | <0.05 | 16 | 0.5 | <0.2 |
| Limestone | MP 14 | 0.076 | 2 | 42 | 0.23 | 21 | 0.444 | 1 | 1.25 | 0.007 | 0.02 | <0.1 | 0.07 | 2.4 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| Limestone | MP 15 | 0.107 | 4 | 81 | 1.04 | 36 | 0.338 | 2 | 4.34 | 0.008 | 0.03 | <0.1 | 0.15 | 12.7 | <0.1 | <0.05 | 11 | 0.6 | <0.2 |
| Limestone | | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. | n.s. |
| Limestone | MP 16 | 0.064 | 4 | 70 | 1.07 | 59 | 0.077 | 3 | 4.65 | 0.014 | 0.04 | 0.1 | 0.23 | 14.3 | <0.1 | <0.05 | 12 | 0.8 | <0.2 |
| Limestone | MP 17 | 0.042 | 3 | 41 | 0.46 | 34 | 0.115 | 2 | 2.11 | 0.008 | 0.02 | <0.1 | 0.06 | 4.1 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| Limestone | MP 18 | 0.108 | 4 | 75 | 1.12 | 63 | 0.174 | 4 | 4.48 | 0.011 | 0.06 | 0.2 | 0.31 | 10.8 | <0.1 | <0.05 | 12 | 0.7 | <0.2 |
| Limestone | MP 19 | 0.076 | 3 | 64 | 0.64 | 49 | 0.216 | 1 | 2.94 | 0.008 | 0.03 | 0.1 | 0.25 | 7.3 | <0.1 | <0.05 | 11 | 0.5 | <0.2 |
| Limestone | MP 20 | 0.133 | 3 | 74 | 1 | 67 | 0.472 | 2 | 3.83 | 0.012 | 0.02 | 0.2 | 0.22 | 12 | <0.1 | <0.05 | 14 | 0.6 | <0.2 |
| Limestone | MP 21 | 0.066 | 2 | 81 | 0.74 | 18 | 0.607 | 3 | 3.7 | 0.012 | <0.01 | 0.1 | 0.15 | 6.4 | <0.1 | <0.05 | 14 | <0.5 | <0.2 |
| Limestone | MP 22 | 0.058 | 3 | 77 | 0.69 | 23 | 0.615 | 2 | 4.21 | 0.008 | 0.01 | 0.1 | 0.25 | 8.6 | <0.1 | <0.05 | 14 | 1 | <0.2 |





13LS194

13LS193

L12EBS132

13LS192

13LS190

13LS189

13LS188

L12EBS133

LL-12-AP-13

L12EBS136

L12EBS139

LLS 12 LH-44

LLS 12 LH-46

MP 48

MP 47

MP 46

MP 45

MP 44

MP 43

MP 42

MP 41

MP 40

MP 39

MP 38

13LS173

13LS172

13LS171

13LS170

13LS169

JT 045

JT 042

JT 044

JT 046

JT 048

JT 047

JT-049

JT 050

JT 052

JT 054

JT-051

JT-053

L12EBS187

LLS 12 AP 16

LLS 12 AP 15

L12EBS135

LLS 12 AP 18

LLS 12 AP 19

LLS 12 AP 20

L12EBS137

L12EBS138

L12EBS140

L12EBS141

L12EBS143

L12EBS144

L12EBS145

LLS 12 LH-43

LLS 12 LH-41

LLS 12 LH-39

LLS 12 LH-40

LLS 12 LH-38

LLS 12 LH-37

13LS186

13LS185

13LS184

13LS183

13LS182

13LS181

13LS180

LLS 12 AP 24

LLS 12 AP 23

LLS 12 AP 25

LLS 12 AP 26

LLS 12 AP 27

13LS179

13LS178

13LS176

13LS175

13LS174

13LS173

13LS172

13LS171

13LS170

Au in Soils

+39 ppb

18 to 39 ppb

10 to 18 ppb

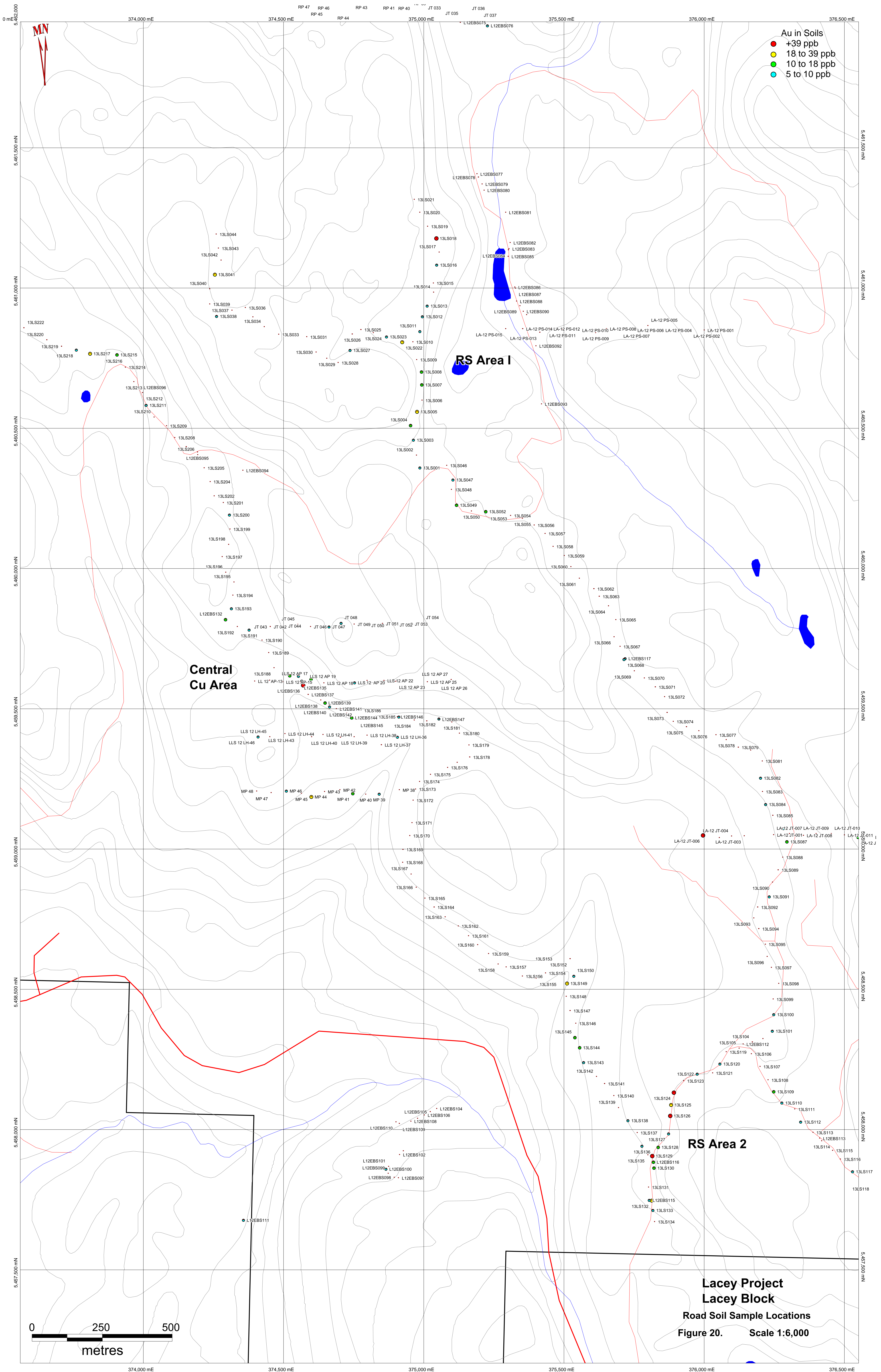
5 to 10 ppb

Lacey Project
Lacey Block

Central Cu Zone Sample Locations

Figure 19

Scale 1:5,000



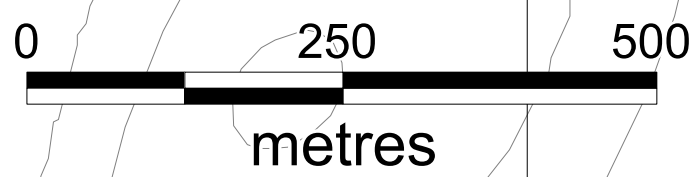
Au in Soils
 ● +39 ppb
 ● 18 to 39 ppb
 ● 10 to 18 ppb
 ● 5 to 10 ppb

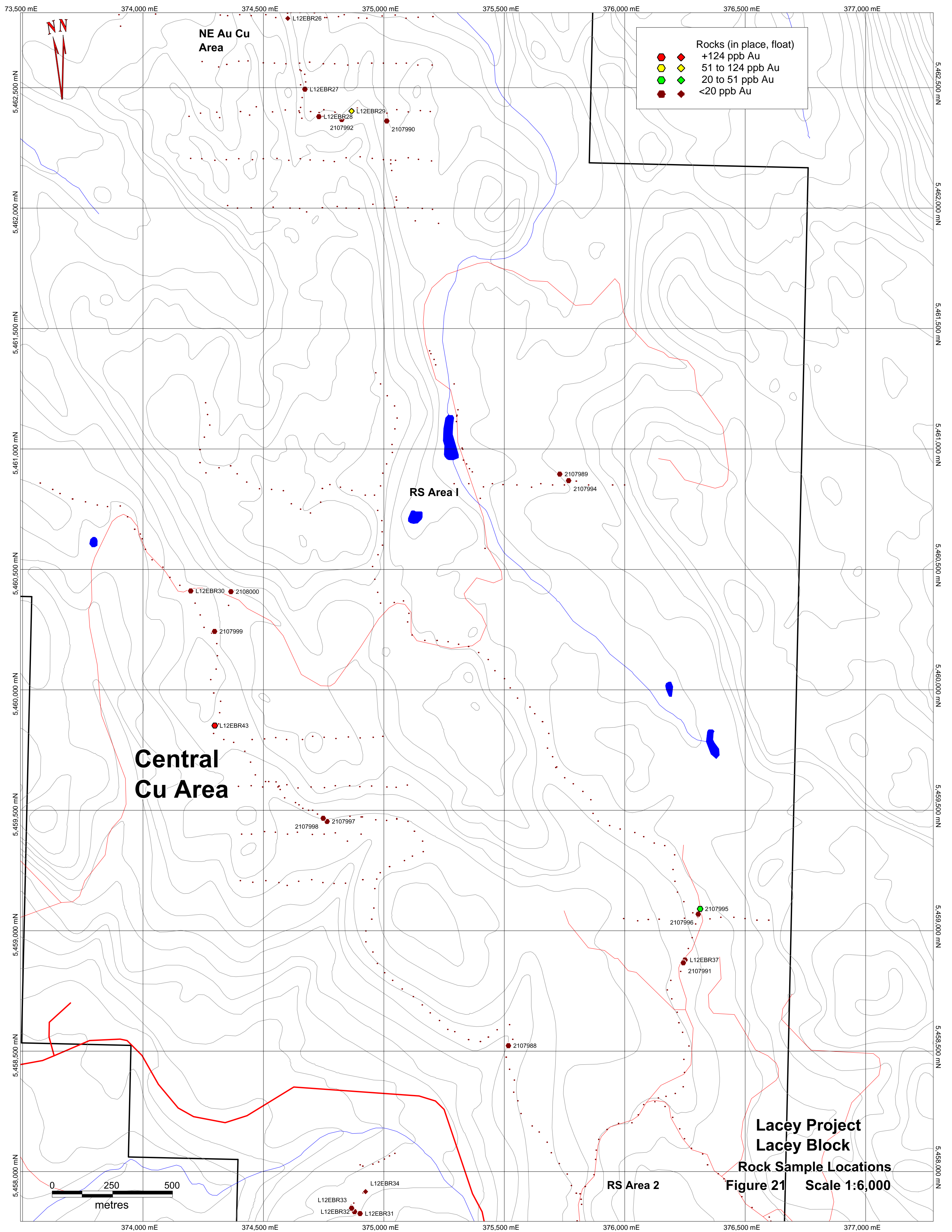
RS Area I

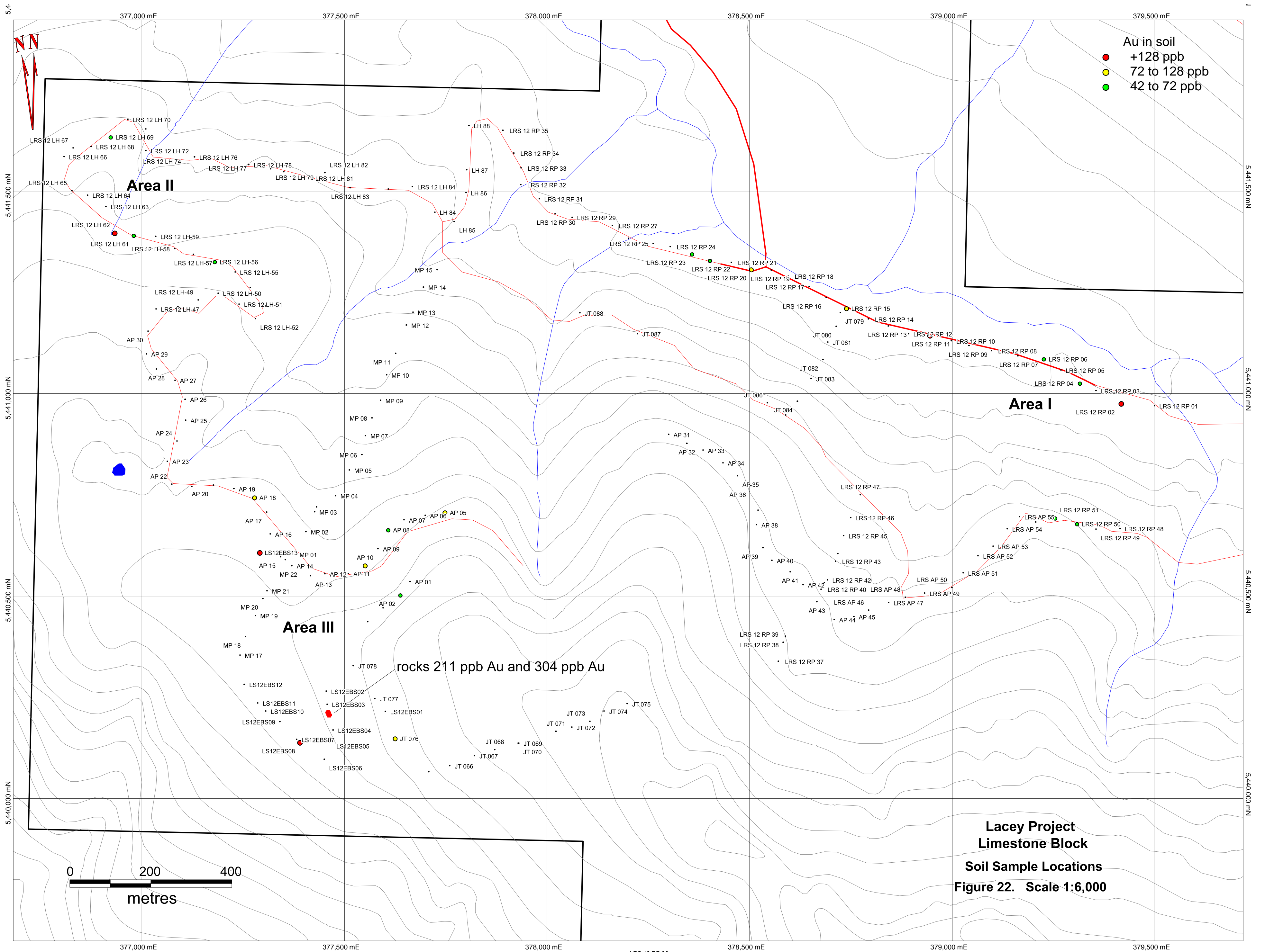
**Central
Cu Area**

RS Area 2

**Lacey Project
Lacey Block
Road Soil Sample Locations
Figure 20. Scale 1:6,000**







Au in soil
 ● +128 ppb
 ● 72 to 128 ppb
 ● 42 to 72 ppb

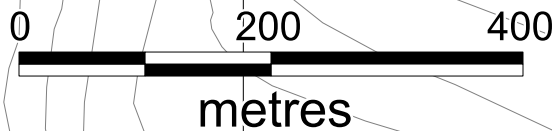
Area II

Area I

Area III

rocks 211 ppb Au and 304 ppb Au

**Lacey Project
 Limestone Block
 Soil Sample Locations
 Figure 22. Scale 1:6,000**



5,440,000 mN
5,440,500 mN
5,441,000 mN
5,441,500 mN
5,4

377,000 mE
377,500 mE
378,000 mE
378,500 mE
379,000 mE
379,500 mE

377,000 mE 377,500 mE 378,000 mE LRS 12 RP 36 378,500 mE 379,000 mE 379,500 mE



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Mammoth Geological Ltd.

2446 Bidston Road
Mill Bay BC V0R 2P4 Canada

Submitted By: Tim Henneberry

Receiving Lab: Canada-Vancouver

Received: September 20, 2012

Report Date: October 04, 2012

Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN12004382.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 46

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.

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

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|-------------|-------------------|--|--------------|---------------|-----|
| Dry at 60C | 45 | Dry at 60C | | | VAN |
| SS80 | 45 | Dry at 60C sieve 100g to -80 mesh | | | VAN |
| 1DX2 | 45 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |
| DISP2 | 45 | Heat treatment of Soils and Sediments | | | VAN |

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. 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: None Given
 Report Date: October 04, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004382.1

| Method | Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | |
|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| | | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | | | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| | | | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 | |
| MP 01 | Soil | | | 0.7 | 34.0 | 8.2 | 51 | <0.1 | 12.4 | 14.4 | 1159 | 5.95 | 7.0 | 1.2 | 0.3 | 16 | <0.1 | 4.0 | <0.1 | 200 | 0.27 | 0.049 | 2 |
| MP 02 | Soil | | | 0.3 | 42.0 | 7.0 | 52 | <0.1 | 4.9 | 9.8 | 1045 | 4.37 | 17.5 | 4.6 | 0.4 | 6 | <0.1 | 6.8 | <0.1 | 140 | 0.13 | 0.047 | 5 |
| MP 03 | Soil | | | 0.6 | 40.2 | 5.7 | 81 | 0.1 | 23.2 | 12.9 | 707 | 4.93 | 9.2 | 2.6 | 0.7 | 11 | <0.1 | 1.7 | <0.1 | 149 | 0.26 | 0.110 | 3 |
| MP 04 | Soil | | | 0.8 | 51.3 | 5.0 | 68 | 0.1 | 27.0 | 12.1 | 440 | 5.03 | 9.6 | 45.0 | 0.9 | 12 | <0.1 | 0.9 | <0.1 | 168 | 0.29 | 0.126 | 3 |
| MP 05 | Soil | | | 0.6 | 33.1 | 5.5 | 84 | 0.6 | 23.5 | 14.1 | 792 | 4.53 | 6.3 | 0.8 | 0.5 | 13 | 0.2 | 1.0 | <0.1 | 158 | 0.41 | 0.047 | 5 |
| MP 06 | Soil | | | 0.9 | 46.8 | 7.4 | 60 | <0.1 | 27.6 | 14.5 | 699 | 5.03 | 8.4 | 3.7 | 0.9 | 13 | <0.1 | 0.9 | 0.1 | 154 | 0.30 | 0.070 | 3 |
| MP 07 | Soil | | | 0.4 | 18.9 | 5.8 | 42 | 0.1 | 10.6 | 6.4 | 299 | 3.16 | 3.9 | 2.5 | 0.5 | 17 | <0.1 | 1.4 | <0.1 | 96 | 0.24 | 0.036 | 4 |
| MP 08 | Soil | | | 1.7 | 44.1 | 6.9 | 64 | 0.2 | 34.6 | 18.5 | 1372 | 4.45 | 9.9 | 2.1 | 0.5 | 31 | 0.2 | 1.6 | <0.1 | 118 | 0.29 | 0.137 | 5 |
| MP 09 | Soil | | | 1.7 | 28.5 | 4.7 | 58 | 0.2 | 38.4 | 13.8 | 543 | 4.39 | 8.0 | 1.0 | 0.4 | 13 | 0.2 | 3.9 | <0.1 | 136 | 0.27 | 0.053 | 3 |
| MP 10 | Soil | | | 1.7 | 48.7 | 11.1 | 190 | 0.3 | 95.2 | 26.7 | 757 | 4.99 | 14.3 | 1.1 | 0.6 | 15 | 0.5 | 1.0 | <0.1 | 165 | 0.31 | 0.055 | 4 |
| MP 11 | Soil | | | 0.9 | 50.9 | 8.2 | 88 | <0.1 | 35.4 | 15.7 | 1442 | 4.09 | 10.2 | 1.2 | 0.6 | 14 | 0.4 | 0.8 | <0.1 | 121 | 0.51 | 0.150 | 4 |
| MP 12 | Soil | | | 0.9 | 45.0 | 5.4 | 80 | 0.2 | 41.7 | 14.8 | 461 | 4.07 | 8.9 | 6.2 | 0.7 | 12 | 0.3 | 1.3 | <0.1 | 136 | 0.32 | 0.088 | 4 |
| MP 13 | Soil | | | 1.4 | 44.4 | 5.7 | 134 | 0.2 | 58.0 | 15.6 | 2604 | 4.81 | 6.4 | 1.3 | 0.8 | 16 | 0.4 | 7.3 | <0.1 | 124 | 0.37 | 0.054 | 16 |
| MP 14 | Soil | | | 0.6 | 31.1 | 3.7 | 57 | 0.2 | 39.7 | 16.0 | 489 | 4.29 | 5.8 | 0.5 | 0.5 | 20 | 0.1 | 0.5 | <0.1 | 120 | 0.33 | 0.111 | 3 |
| MP 15 | Soil | | | 0.6 | 16.2 | 5.4 | 31 | 0.1 | 13.7 | 5.7 | 160 | 3.18 | 3.8 | 1.0 | 0.6 | 19 | <0.1 | 0.5 | <0.1 | 114 | 0.27 | 0.053 | 4 |
| MP 16 | Soil | | | 0.2 | 11.6 | 6.8 | 32 | <0.1 | 22.5 | 9.0 | 440 | 3.10 | 1.3 | <0.5 | 0.6 | 53 | <0.1 | 0.2 | <0.1 | 98 | 0.43 | 0.041 | 4 |
| MP 17 | Soil | | | 0.8 | 32.2 | 3.9 | 60 | <0.1 | 31.4 | 12.3 | 239 | 4.31 | 4.8 | 0.6 | 0.8 | 18 | <0.1 | 0.6 | <0.1 | 144 | 0.36 | 0.055 | 3 |
| MP 18 | Soil | | | 1.3 | 36.6 | 5.3 | 60 | 0.1 | 29.0 | 13.6 | 628 | 4.51 | 4.4 | 1.5 | 0.8 | 18 | <0.1 | 0.8 | <0.1 | 149 | 0.38 | 0.110 | 3 |
| MP 19 | Soil | | | 0.7 | 11.6 | 4.8 | 33 | 0.2 | 4.3 | 9.4 | 1092 | 2.64 | 1.4 | <0.5 | 0.5 | 10 | <0.1 | 0.2 | <0.1 | 75 | 0.11 | 0.056 | 7 |
| MP 20 | Soil | | | 0.5 | 25.5 | 4.5 | 50 | <0.1 | 16.9 | 12.6 | 714 | 3.45 | 2.5 | 0.9 | 0.7 | 22 | <0.1 | 0.6 | <0.1 | 107 | 0.39 | 0.082 | 4 |
| MP 21 | Soil | | | 1.2 | 45.5 | 5.7 | 122 | 0.1 | 59.1 | 14.9 | 1550 | 4.99 | 7.1 | 1.1 | 0.8 | 12 | 0.3 | 8.7 | <0.1 | 129 | 0.27 | 0.056 | 14 |
| MP 22 | Soil | | | 0.9 | 20.3 | 16.0 | 74 | <0.1 | 16.3 | 71.6 | 3410 | 5.77 | 10.5 | 0.9 | 0.6 | 19 | 0.1 | 0.6 | 0.2 | 169 | 0.27 | 0.130 | 3 |
| MP 23 | Soil | | | 1.5 | 72.9 | 4.4 | 65 | <0.1 | 44.9 | 19.5 | 317 | 5.09 | 10.7 | 16.7 | 0.9 | 10 | <0.1 | 0.9 | <0.1 | 165 | 0.30 | 0.070 | 5 |
| MP 24 | Soil | | | 0.6 | 40.7 | 5.9 | 51 | <0.1 | 25.2 | 9.8 | 250 | 4.32 | 8.3 | 2.1 | 0.8 | 11 | <0.1 | 1.0 | <0.1 | 147 | 0.24 | 0.051 | 2 |
| MP 25 | Soil | | | 0.7 | 48.7 | 6.0 | 75 | 0.1 | 22.9 | 11.6 | 312 | 4.94 | 9.5 | 111.0 | 0.8 | 12 | 0.1 | 1.2 | <0.1 | 146 | 0.26 | 0.056 | 3 |
| MP 26 | Soil | | | 0.7 | 18.3 | 8.9 | 27 | <0.1 | 8.1 | 4.7 | 768 | 4.69 | 3.5 | 4.3 | 0.6 | 32 | <0.1 | 0.6 | 0.1 | 157 | 0.38 | 0.122 | 3 |
| MP 27 | Soil | | | 0.9 | 25.2 | 9.6 | 48 | 0.4 | 7.1 | 10.5 | 5107 | 2.84 | 5.6 | 22.8 | 0.4 | 9 | <0.1 | 0.4 | <0.1 | 114 | 0.28 | 0.044 | 5 |
| MP 28 | Soil | | | 0.1 | 3.5 | 6.4 | 12 | <0.1 | 2.4 | 6.2 | 784 | 1.27 | 1.0 | 1.8 | 0.4 | 93 | <0.1 | 0.3 | <0.1 | 73 | 0.76 | 0.025 | 3 |
| MP 29 | Soil | | | 0.7 | 26.4 | 14.1 | 108 | 0.2 | 14.1 | 15.3 | 1538 | 3.82 | 2.3 | 0.5 | 1.5 | 26 | 0.2 | 0.4 | 0.2 | 83 | 0.35 | 0.108 | 7 |
| MP 30 | Soil | | | 1.6 | 139.5 | 10.1 | 85 | 0.3 | 29.6 | 21.6 | 698 | 5.64 | 12.0 | 16.6 | 1.3 | 11 | 0.2 | 1.1 | 0.1 | 117 | 0.29 | 0.070 | 11 |

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Report Date: October 04, 2012

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CERTIFICATE OF ANALYSIS

VAN12004382.1

| Method | Analyte | 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 |
| Unit | | ppm | % | 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 | 0.05 | 1 | 0.5 | 0.2 | |
| MP 01 | Soil | 36 | 0.68 | 83 | 0.026 | 1 | 2.11 | 0.005 | 0.02 | 0.1 | 0.14 | 9.3 | <0.1 | 0.18 | 8 | <0.5 | <0.2 |
| MP 02 | Soil | 10 | 0.40 | 106 | 0.001 | <1 | 2.97 | 0.006 | 0.05 | 0.2 | 0.33 | 7.4 | 0.1 | 0.16 | 9 | <0.5 | <0.2 |
| MP 03 | Soil | 43 | 0.44 | 62 | 0.066 | <1 | 3.51 | 0.006 | 0.03 | <0.1 | 0.26 | 5.8 | <0.1 | 0.16 | 10 | <0.5 | <0.2 |
| MP 04 | Soil | 48 | 0.50 | 48 | 0.244 | 2 | 3.49 | 0.010 | 0.03 | <0.1 | 0.19 | 6.2 | <0.1 | 0.16 | 11 | 0.6 | <0.2 |
| MP 05 | Soil | 48 | 0.40 | 70 | 0.223 | 1 | 2.27 | 0.007 | 0.03 | <0.1 | 0.14 | 4.9 | <0.1 | 0.17 | 9 | <0.5 | <0.2 |
| MP 06 | Soil | 54 | 0.63 | 69 | 0.200 | 1 | 3.22 | 0.007 | 0.03 | <0.1 | 0.10 | 6.3 | <0.1 | 0.16 | 10 | <0.5 | <0.2 |
| MP 07 | Soil | 26 | 0.31 | 41 | 0.068 | <1 | 1.86 | 0.006 | 0.03 | <0.1 | 0.13 | 3.6 | <0.1 | 0.17 | 7 | <0.5 | <0.2 |
| MP 08 | Soil | 67 | 0.95 | 69 | 0.161 | 2 | 2.33 | 0.005 | 0.05 | <0.1 | 0.08 | 5.7 | <0.1 | 0.14 | 10 | <0.5 | <0.2 |
| MP 09 | Soil | 61 | 0.42 | 56 | 0.038 | 2 | 2.24 | 0.005 | 0.02 | <0.1 | 0.20 | 7.2 | <0.1 | 0.16 | 8 | <0.5 | <0.2 |
| MP 10 | Soil | 200 | 1.25 | 85 | 0.187 | 2 | 3.21 | 0.007 | 0.03 | <0.1 | 0.09 | 6.8 | <0.1 | 0.16 | 10 | <0.5 | 0.2 |
| MP 11 | Soil | 54 | 0.61 | 115 | 0.141 | 2 | 2.39 | 0.007 | 0.04 | <0.1 | 0.09 | 5.6 | <0.1 | 0.17 | 8 | <0.5 | <0.2 |
| MP 12 | Soil | 73 | 0.61 | 84 | 0.173 | 2 | 2.73 | 0.007 | 0.02 | <0.1 | 0.15 | 5.5 | <0.1 | 0.15 | 8 | <0.5 | <0.2 |
| MP 13 | Soil | 108 | 0.18 | 197 | 0.016 | 2 | 1.90 | 0.005 | 0.02 | 0.4 | 0.37 | 13.1 | <0.1 | 0.18 | 6 | <0.5 | <0.2 |
| MP 14 | Soil | 86 | 0.73 | 50 | 0.264 | 1 | 2.50 | 0.007 | 0.03 | <0.1 | 0.25 | 4.5 | <0.1 | 0.10 | 9 | 0.5 | <0.2 |
| MP 15 | Soil | 39 | 0.30 | 42 | 0.154 | <1 | 1.98 | 0.005 | 0.02 | <0.1 | 0.04 | 3.3 | <0.1 | 0.16 | 9 | <0.5 | <0.2 |
| MP 16 | Soil | 75 | 0.32 | 47 | 0.105 | <1 | 1.74 | 0.005 | 0.03 | <0.1 | 0.06 | 5.7 | <0.1 | 0.18 | 8 | <0.5 | <0.2 |
| MP 17 | Soil | 55 | 0.49 | 61 | 0.221 | 2 | 2.52 | 0.007 | 0.02 | 0.1 | 0.05 | 4.4 | <0.1 | 0.14 | 9 | <0.5 | <0.2 |
| MP 18 | Soil | 49 | 0.49 | 75 | 0.186 | 2 | 3.49 | 0.007 | 0.03 | <0.1 | 0.19 | 5.4 | <0.1 | 0.15 | 9 | <0.5 | <0.2 |
| MP 19 | Soil | 9 | 0.25 | 65 | 0.003 | <1 | 1.71 | 0.007 | 0.04 | <0.1 | 0.13 | 3.2 | <0.1 | 0.17 | 6 | <0.5 | <0.2 |
| MP 20 | Soil | 33 | 0.41 | 55 | 0.111 | 1 | 2.41 | 0.007 | 0.03 | <0.1 | 0.14 | 3.8 | <0.1 | 0.15 | 8 | <0.5 | <0.2 |
| MP 21 | Soil | 116 | 0.16 | 161 | 0.010 | 2 | 1.83 | 0.004 | 0.03 | 0.5 | 0.33 | 13.2 | <0.1 | 0.17 | 5 | <0.5 | <0.2 |
| MP 22 | Soil | 50 | 0.33 | 72 | 0.223 | 1 | 2.06 | 0.007 | 0.04 | <0.1 | 0.13 | 4.1 | <0.1 | 0.17 | 13 | <0.5 | <0.2 |
| MP 23 | Soil | 74 | 0.67 | 39 | 0.245 | 2 | 4.21 | 0.010 | 0.03 | <0.1 | 0.08 | 9.9 | <0.1 | 0.15 | 10 | 0.8 | <0.2 |
| MP 24 | Soil | 55 | 0.43 | 39 | 0.219 | 2 | 4.23 | 0.009 | 0.02 | <0.1 | 0.09 | 4.9 | <0.1 | 0.16 | 10 | <0.5 | <0.2 |
| MP 25 | Soil | 44 | 0.49 | 50 | 0.214 | 2 | 3.70 | 0.007 | 0.02 | <0.1 | 0.39 | 5.4 | <0.1 | 0.16 | 11 | <0.5 | <0.2 |
| MP 26 | Soil | 33 | 0.24 | 24 | 0.174 | 1 | 1.73 | 0.006 | 0.02 | <0.1 | 0.10 | 4.0 | <0.1 | 0.18 | 10 | <0.5 | <0.2 |
| MP 27 | Soil | 29 | 0.24 | 213 | 0.001 | 1 | 2.58 | 0.003 | 0.11 | <0.1 | 0.09 | 8.4 | 0.2 | 0.15 | 7 | <0.5 | <0.2 |
| MP 28 | Soil | 9 | 0.13 | 30 | 0.118 | 1 | 1.08 | 0.005 | 0.02 | <0.1 | 0.04 | 5.0 | <0.1 | 0.20 | 6 | <0.5 | <0.2 |
| MP 29 | Soil | 26 | 0.37 | 116 | 0.052 | 2 | 3.85 | 0.006 | 0.06 | <0.1 | 0.10 | 3.9 | 0.1 | 0.15 | 10 | <0.5 | <0.2 |
| MP 30 | Soil | 34 | 0.71 | 135 | 0.046 | 4 | 4.62 | 0.008 | 0.05 | <0.1 | 0.14 | 9.8 | <0.1 | 0.14 | 8 | 0.8 | <0.2 |



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VAN12004382.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | 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 | 2 | 0.01 | 0.001 | 1 | |
| MP 31 | Soil | 0.3 | 5.0 | 4.8 | 10 | <0.1 | 2.9 | 1.6 | 182 | 1.84 | 1.6 | 1.4 | 0.4 | 21 | <0.1 | 0.3 | <0.1 | 85 | 0.23 | 0.033 | 3 |
| MP 32 | Soil | 0.5 | 20.5 | 13.1 | 55 | <0.1 | 9.8 | 8.6 | 3009 | 3.19 | 4.7 | 1.0 | 0.4 | 16 | 0.2 | 0.5 | 0.1 | 93 | 0.38 | 0.145 | 4 |
| MP 33 | Soil | 1.0 | 84.9 | 13.2 | 120 | 0.2 | 22.6 | 24.5 | 2874 | 5.43 | 6.1 | 5.9 | 0.6 | 15 | 0.3 | 1.8 | 0.4 | 121 | 0.30 | 0.095 | 9 |
| MP 34 | Soil | 1.6 | 66.7 | 6.8 | 118 | 0.3 | 79.0 | 27.7 | 1330 | 6.18 | 9.7 | 2.4 | 0.7 | 17 | 1.4 | 3.0 | <0.1 | 163 | 0.76 | 0.057 | 16 |
| MP 35 | Soil | 0.9 | 18.7 | 6.0 | 50 | <0.1 | 22.2 | 10.2 | 571 | 3.47 | 3.7 | 2.1 | 0.4 | 43 | 0.2 | 0.6 | <0.1 | 116 | 0.41 | 0.047 | 5 |
| MP 36 | Soil | 0.7 | 27.0 | 16.6 | 88 | 0.2 | 20.9 | 11.6 | 770 | 3.83 | 4.7 | 2.1 | 0.6 | 15 | 0.4 | 0.4 | <0.1 | 122 | 0.32 | 0.090 | 4 |
| MP 37 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| MP 38 | Soil | 0.6 | 60.2 | 2.6 | 37 | 0.1 | 50.3 | 20.3 | 352 | 4.83 | 85.9 | 3.3 | 0.5 | 7 | <0.1 | 7.2 | <0.1 | 153 | 0.17 | 0.039 | 4 |
| MP 39 | Soil | 0.8 | 95.2 | 5.5 | 48 | <0.1 | 96.7 | 33.5 | 1616 | 5.59 | 7.4 | 5.7 | 0.4 | 11 | 0.1 | 6.1 | <0.1 | 106 | 0.22 | 0.054 | 4 |
| MP 40 | Soil | 0.4 | 49.2 | 2.9 | 32 | <0.1 | 20.7 | 9.7 | 555 | 2.56 | 8.0 | 3.1 | 0.8 | 8 | <0.1 | 0.6 | <0.1 | 83 | 0.33 | 0.060 | 5 |
| MP 41 | Soil | 2.5 | 41.0 | 4.6 | 34 | <0.1 | 26.8 | 13.3 | 274 | 4.34 | 6.1 | 14.4 | 0.9 | 9 | <0.1 | 0.4 | <0.1 | 136 | 0.28 | 0.031 | 3 |
| MP 42 | Soil | 0.7 | 30.5 | 5.0 | 42 | <0.1 | 17.4 | 10.9 | 886 | 3.32 | 1.8 | 0.8 | 0.5 | 8 | <0.1 | 0.1 | <0.1 | 98 | 0.22 | 0.047 | 3 |
| MP 43 | Soil | 0.4 | 27.0 | 3.9 | 45 | <0.1 | 24.2 | 10.7 | 379 | 2.61 | 2.1 | 2.1 | 0.5 | 8 | <0.1 | 0.2 | <0.1 | 83 | 0.28 | 0.042 | 3 |
| MP 44 | Soil | 0.3 | 20.6 | 37.2 | 72 | <0.1 | 13.0 | 11.0 | 5782 | 2.49 | 2.2 | 38.5 | 0.4 | 14 | 0.1 | 0.1 | <0.1 | 72 | 0.48 | 0.141 | 3 |
| MP 45 | Soil | 0.6 | 56.1 | 3.9 | 51 | 0.1 | 23.9 | 17.1 | 566 | 3.51 | 7.4 | 3.6 | 0.7 | 14 | <0.1 | 1.4 | <0.1 | 94 | 0.35 | 0.055 | 6 |
| LCYSTD-11 | Soil | 32.9 | >10000 | 5097 | >10000 | 73.0 | 39.1 | 53.6 | 510 | 4.84 | 53.6 | 576.0 | 3.4 | 25 | 66.1 | 53.5 | 9.3 | 62 | 0.80 | 0.039 | 9 |



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| Method | Analyte | 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 |
| Unit | | ppm | % | 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 | 0.05 | 1 | 0.5 | 0.2 | |
| MP 31 | Soil | 11 | 0.09 | 11 | 0.105 | <1 | 0.75 | 0.004 | 0.03 | <0.1 | 0.02 | 2.2 | <0.1 | 0.18 | 6 | <0.5 | <0.2 |
| MP 32 | Soil | 24 | 0.28 | 141 | 0.069 | 1 | 1.61 | 0.005 | 0.05 | <0.1 | 0.12 | 3.3 | <0.1 | 0.17 | 8 | <0.5 | <0.2 |
| MP 33 | Soil | 39 | 0.66 | 202 | 0.020 | 2 | 2.72 | 0.004 | 0.09 | 0.1 | 0.13 | 7.9 | <0.1 | 0.17 | 8 | <0.5 | 0.4 |
| MP 34 | Soil | 209 | 1.05 | 180 | 0.039 | 4 | 3.49 | 0.008 | 0.03 | <0.1 | 0.25 | 20.9 | <0.1 | 0.15 | 8 | 1.2 | <0.2 |
| MP 35 | Soil | 43 | 0.48 | 57 | 0.126 | 1 | 2.06 | 0.005 | 0.02 | <0.1 | 0.09 | 5.1 | <0.1 | 0.18 | 10 | <0.5 | <0.2 |
| MP 36 | Soil | 40 | 0.37 | 75 | 0.149 | <1 | 2.37 | 0.006 | 0.02 | <0.1 | 0.07 | 4.3 | <0.1 | 0.15 | 9 | <0.5 | <0.2 |
| MP 37 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| MP 38 | Soil | 126 | 0.68 | 84 | 0.013 | 3 | 2.58 | 0.003 | 0.03 | 0.3 | 0.55 | 10.6 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| MP 39 | Soil | 170 | 0.82 | 155 | 0.002 | 3 | 2.19 | 0.008 | 0.04 | 0.2 | 0.26 | 13.6 | <0.1 | <0.05 | 5 | 0.6 | <0.2 |
| MP 40 | Soil | 33 | 0.46 | 105 | 0.095 | 3 | 2.37 | 0.005 | 0.04 | <0.1 | 0.07 | 5.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| MP 41 | Soil | 45 | 0.46 | 85 | 0.130 | 2 | 3.94 | 0.006 | 0.03 | 0.1 | 0.07 | 4.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| MP 42 | Soil | 31 | 0.41 | 93 | 0.084 | 2 | 2.50 | 0.004 | 0.03 | <0.1 | 0.08 | 2.9 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| MP 43 | Soil | 35 | 0.43 | 59 | 0.078 | 1 | 2.57 | 0.005 | 0.03 | <0.1 | 0.06 | 3.3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| MP 44 | Soil | 24 | 0.17 | 200 | 0.076 | 2 | 1.63 | 0.004 | 0.03 | <0.1 | 0.09 | 3.0 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| MP 45 | Soil | 41 | 0.68 | 70 | 0.048 | 4 | 2.86 | 0.004 | 0.05 | 0.1 | 0.06 | 5.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| LCYSTD-11 | Soil | 37 | 1.04 | 59 | 0.094 | 4 | 1.59 | 0.084 | 0.21 | 30.1 | 1.75 | 4.5 | 1.9 | 2.93 | 9 | 4.0 | <0.2 |



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Project: None Given
Report Date: October 04, 2012

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

VAN12004382.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | % | % | ppm | |
| MDL | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 | |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| MP 06 | Soil | 0.9 | 46.8 | 7.4 | 60 | <0.1 | 27.6 | 14.5 | 699 | 5.03 | 8.4 | 3.7 | 0.9 | 13 | <0.1 | 0.9 | 0.1 | 154 | 0.30 | 0.070 | 3 |
| REP MP 06 | QC | 0.8 | 47.7 | 7.5 | 61 | <0.1 | 28.2 | 14.3 | 691 | 4.83 | 8.4 | 2.3 | 1.0 | 13 | 0.1 | 1.0 | <0.1 | 155 | 0.30 | 0.070 | 3 |
| MP 16 | Soil | 0.2 | 11.6 | 6.8 | 32 | <0.1 | 22.5 | 9.0 | 440 | 3.10 | 1.3 | <0.5 | 0.6 | 53 | <0.1 | 0.2 | <0.1 | 98 | 0.43 | 0.041 | 4 |
| REP MP 16 | QC | 0.2 | 12.0 | 6.7 | 32 | <0.1 | 22.5 | 9.0 | 449 | 3.13 | 1.2 | 1.7 | 0.5 | 53 | <0.1 | 0.2 | <0.1 | 97 | 0.42 | 0.042 | 4 |
| MP 40 | Soil | 0.4 | 49.2 | 2.9 | 32 | <0.1 | 20.7 | 9.7 | 555 | 2.56 | 8.0 | 3.1 | 0.8 | 8 | <0.1 | 0.6 | <0.1 | 83 | 0.33 | 0.060 | 5 |
| REP MP 40 | QC | 0.4 | 50.2 | 3.0 | 32 | <0.1 | 20.9 | 10.1 | 586 | 2.66 | 8.2 | 24.5 | 0.8 | 8 | <0.1 | 0.6 | <0.1 | 84 | 0.35 | 0.062 | 5 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 13.8 | 102.1 | 121.0 | 299 | 1.9 | 40.0 | 7.2 | 566 | 2.25 | 22.4 | 112.9 | 6.3 | 70 | 2.1 | 5.2 | 5.9 | 40 | 0.73 | 0.078 | 14 |
| STD DS9 | Standard | 13.8 | 113.6 | 110.3 | 291 | 1.9 | 42.0 | 8.1 | 579 | 2.33 | 25.4 | 125.9 | 5.3 | 53 | 2.3 | 4.3 | 5.0 | 48 | 0.71 | 0.067 | 12 |
| 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 |
| 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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Project: None Given

Report Date: October 04, 2012

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

VAN12004382.1

| Method | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------------------|----------|-------|--------|-------|--------|-------|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| Analyte | | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te |
| Unit | | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm |
| MDL | | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 0.2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | |
| MP 06 | Soil | 54 | 0.63 | 69 | 0.200 | 1 | 3.22 | 0.007 | 0.03 | <0.1 | 0.10 | 6.3 | <0.1 | 0.16 | 10 | <0.5 | <0.2 |
| REP MP 06 | QC | 54 | 0.64 | 71 | 0.208 | 2 | 3.32 | 0.007 | 0.03 | <0.1 | 0.11 | 6.4 | <0.1 | 0.16 | 10 | <0.5 | <0.2 |
| MP 16 | Soil | 75 | 0.32 | 47 | 0.105 | <1 | 1.74 | 0.005 | 0.03 | <0.1 | 0.06 | 5.7 | <0.1 | 0.18 | 8 | <0.5 | <0.2 |
| REP MP 16 | QC | 80 | 0.32 | 47 | 0.102 | <1 | 1.76 | 0.005 | 0.03 | <0.1 | 0.07 | 5.6 | <0.1 | 0.17 | 8 | <0.5 | <0.2 |
| MP 40 | Soil | 33 | 0.46 | 105 | 0.095 | 3 | 2.37 | 0.005 | 0.04 | <0.1 | 0.07 | 5.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| REP MP 40 | QC | 34 | 0.46 | 110 | 0.097 | 3 | 2.53 | 0.006 | 0.04 | <0.1 | 0.09 | 6.0 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 119 | 0.59 | 288 | 0.116 | 2 | 0.89 | 0.081 | 0.37 | 2.8 | 0.22 | 2.6 | 5.5 | 0.26 | 5 | 5.1 | 4.9 |
| STD DS9 | Standard | 124 | 0.62 | 289 | 0.086 | 3 | 0.88 | 0.081 | 0.38 | 2.8 | 0.21 | 2.7 | 5.4 | 0.14 | 4 | 5.3 | 5.1 |
| 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 | 0.15 | <1 | <0.5 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: September 14, 2012
Report Date: October 04, 2012
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN12004383.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 230

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.

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

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|-------------|-------------------|--|--------------|---------------|-----|
| Dry at 60C | 223 | Dry at 60C | | | VAN |
| SS80 | 218 | Dry at 60C sieve 100g to -80 mesh | | | VAN |
| 1DX2 | 223 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |
| G601 | 0 | Fire Assay fusion Au by ICP-ES | 30 | Completed | VAN |

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. 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: None Given
 Report Date: October 04, 2012

Page: 2 of 9

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | % | % | ppm | |
| MDL | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 | |
| LH 01 | Soil | 0.8 | 29.3 | 7.9 | 78 | 0.1 | 26.9 | 12.3 | 552 | 4.60 | 10.3 | 2.7 | 1.1 | 9 | 0.5 | 1.3 | 0.3 | 144 | 0.24 | 0.051 | 4 |
| LH 02 | Soil | 1.6 | 48.9 | 8.7 | 68 | 0.2 | 40.4 | 34.8 | 5579 | 3.60 | 7.5 | 3.5 | 0.6 | 17 | 0.6 | 1.0 | 0.2 | 100 | 0.67 | 0.058 | 18 |
| LH 03 | Soil | 0.4 | 35.8 | 5.4 | 43 | 0.1 | 22.0 | 9.5 | 233 | 3.89 | 8.5 | 1.7 | 0.7 | 8 | <0.1 | 0.8 | 0.3 | 138 | 0.22 | 0.025 | 2 |
| LH 04 | Soil | 0.5 | 37.0 | 8.4 | 81 | <0.1 | 27.7 | 16.1 | 1049 | 4.57 | 5.8 | 1.5 | 0.9 | 11 | 0.2 | 0.7 | 0.2 | 132 | 0.21 | 0.099 | 3 |
| LH 05 | Soil | 2.5 | 76.0 | 11.5 | 161 | 0.2 | 84.2 | 90.1 | >10000 | 3.93 | 6.9 | 6.1 | 0.5 | 16 | 0.7 | 0.9 | 0.2 | 118 | 0.54 | 0.156 | 44 |
| LH 06 | Soil | 0.9 | 58.7 | 11.4 | 64 | 0.1 | 22.3 | 13.5 | 965 | 4.80 | 8.9 | 2.1 | 1.4 | 11 | 0.1 | 1.2 | 0.1 | 144 | 0.20 | 0.146 | 5 |
| LH 07 | Soil | 0.3 | 21.6 | 11.5 | 76 | 0.2 | 10.0 | 52.5 | 6131 | 3.31 | 4.6 | 1.0 | 0.6 | 18 | 0.2 | 0.6 | 0.1 | 75 | 0.12 | 0.180 | 8 |
| LH 08 | Soil | 1.0 | 93.5 | 4.9 | 53 | 0.1 | 37.1 | 19.2 | 479 | 4.91 | 17.8 | 5.6 | 1.3 | 12 | <0.1 | 1.9 | <0.1 | 153 | 0.33 | 0.051 | 8 |
| LH 09 | Soil | 0.8 | 48.7 | 6.0 | 78 | 0.1 | 28.9 | 15.4 | 770 | 4.53 | 9.0 | 1.7 | 0.9 | 11 | 0.1 | 1.2 | 0.1 | 146 | 0.33 | 0.063 | 3 |
| LH 10 | Soil | 0.3 | 15.0 | 7.2 | 39 | <0.1 | 6.6 | 6.0 | 532 | 3.64 | 3.1 | <0.5 | 0.7 | 13 | 0.1 | 0.7 | 0.1 | 114 | 0.18 | 0.045 | 4 |
| LH 11 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LH 12 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LH 13 | Soil | 0.9 | 42.8 | 10.0 | 71 | 0.1 | 46.8 | 22.1 | 477 | 4.91 | 9.1 | <0.5 | 0.5 | 15 | 0.3 | 3.4 | <0.1 | 119 | 0.35 | 0.031 | 5 |
| LH 14 | Soil | 1.1 | 34.7 | 5.8 | 56 | 0.1 | 24.1 | 11.6 | 337 | 4.69 | 9.3 | <0.5 | 0.5 | 13 | 0.2 | 2.0 | <0.1 | 152 | 0.29 | 0.071 | 3 |
| LH 15 | Soil | 0.3 | 24.4 | 4.6 | 54 | 0.2 | 14.7 | 8.5 | 472 | 3.33 | 3.3 | 1.4 | 0.7 | 13 | 0.1 | 0.6 | <0.1 | 100 | 0.26 | 0.082 | 2 |
| MP 46 | Soil | 0.6 | 9.3 | 6.8 | 34 | <0.1 | 12.1 | 7.4 | 1506 | 2.59 | 2.1 | 6.0 | 0.6 | 26 | <0.1 | 0.4 | <0.1 | 83 | 0.32 | 0.043 | 4 |
| MP 47 | Soil | 1.1 | 37.8 | 7.9 | 65 | <0.1 | 28.0 | 13.7 | 793 | 3.88 | 4.2 | 2.3 | 1.0 | 11 | <0.1 | 0.6 | 0.1 | 115 | 0.26 | 0.114 | 3 |
| MP 48 | Soil | 0.9 | 45.0 | 6.7 | 41 | <0.1 | 11.3 | 7.5 | 391 | 5.15 | 10.3 | 2.4 | 1.4 | 10 | <0.1 | 0.6 | 0.1 | 111 | 0.17 | 0.405 | 6 |
| MP 01 | Soil | 1.2 | 95.8 | 8.8 | 159 | 0.1 | 60.9 | 32.5 | 902 | 6.34 | 15.5 | 4.6 | 1.4 | 29 | 0.3 | 1.1 | 0.1 | 159 | 0.83 | 0.068 | 7 |
| MP 02 | Soil | 0.9 | 85.4 | 5.1 | 57 | 0.1 | 28.8 | 17.6 | 393 | 8.19 | 7.0 | 24.5 | 0.8 | 25 | 0.2 | 0.6 | 0.1 | 298 | 0.32 | 0.048 | 3 |
| MP 03 | Soil | 0.8 | 145.2 | 4.9 | 60 | 0.2 | 33.4 | 19.8 | 354 | 10.84 | 6.6 | 26.2 | 0.9 | 21 | 0.2 | 0.7 | 0.1 | 348 | 0.20 | 0.057 | 3 |
| MP 04 | Soil | 0.8 | 98.7 | 4.5 | 46 | 0.2 | 19.7 | 11.8 | 322 | 10.04 | 3.8 | 15.1 | 1.0 | 18 | <0.1 | 0.6 | 0.1 | 399 | 0.17 | 0.068 | 3 |
| MP 05 | Soil | 4.4 | 137.7 | 5.6 | 60 | 0.7 | 31.5 | 15.0 | 752 | 5.23 | 20.8 | 3.5 | 0.4 | 45 | 0.6 | 2.0 | 0.1 | 198 | 1.68 | 0.046 | 6 |
| MP 06 | Soil | 4.5 | 141.0 | 6.4 | 73 | 0.5 | 40.7 | 17.7 | 876 | 6.06 | 19.9 | 3.4 | 0.5 | 38 | 0.6 | 2.0 | 0.2 | 235 | 1.24 | 0.042 | 5 |
| MP 07 | Soil | 0.7 | 238.9 | 4.0 | 66 | 0.2 | 67.6 | 36.1 | 1458 | 5.67 | 11.3 | 21.3 | 0.4 | 72 | 0.4 | 0.7 | <0.1 | 183 | 1.43 | 0.057 | 4 |
| MP 08 | Soil | 0.6 | 253.0 | 33.7 | 69 | 0.2 | 61.2 | 32.7 | 918 | 5.79 | 6.2 | 11.9 | 0.6 | 58 | 0.2 | 0.5 | <0.1 | 198 | 1.05 | 0.074 | 4 |
| MP 09 | Soil | 2.3 | 125.1 | 5.0 | 50 | 0.3 | 33.0 | 32.5 | 536 | 6.76 | 3.6 | 19.1 | 0.7 | 31 | 0.1 | 0.4 | <0.1 | 254 | 0.29 | 0.064 | 5 |
| MP 10 | Soil | 0.3 | 30.2 | 4.7 | 22 | 0.3 | 10.5 | 6.1 | 185 | 4.22 | 4.0 | 10.0 | 0.5 | 16 | <0.1 | 0.6 | <0.1 | 197 | 0.17 | 0.067 | 3 |
| MP 11 | Soil | 0.9 | 130.1 | 3.5 | 46 | 0.2 | 33.5 | 17.8 | 366 | 6.48 | 13.2 | 11.4 | 0.8 | 20 | <0.1 | 0.6 | <0.1 | 223 | 0.25 | 0.084 | 3 |
| MP 12 | Soil | 0.6 | 92.2 | 4.0 | 38 | 0.2 | 22.4 | 28.0 | 601 | 5.75 | 4.9 | 7.9 | 0.6 | 25 | <0.1 | 0.5 | <0.1 | 200 | 0.29 | 0.085 | 4 |

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Project: None Given
 Report Date: October 04, 2012

Page: 2 of 9

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | Analyte | Unit | MDL | 1DX15 Cr | 1DX15 Mg | 1DX15 Ba | 1DX15 Ti | 1DX15 B | 1DX15 Al | 1DX15 Na | 1DX15 K | 1DX15 W | 1DX15 Hg | 1DX15 Sc | 1DX15 Ti | 1DX15 S | 1DX15 Ga | 1DX15 Se | 1DX15 Te | G6 Au |
|--------|---------|------|-----|----------|----------|----------|----------|---------|----------|----------|---------|---------|----------|----------|----------|---------|----------|----------|----------|-------|
| | | | | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | gm/t |
| | | | | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 1 | 0.5 | 0.2 | 0.005 | |
| LH 01 | Soil | | | 53 | 0.35 | 40 | 0.213 | 3 | 2.72 | 0.008 | 0.02 | 0.1 | 0.11 | 5.8 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| LH 02 | Soil | | | 51 | 0.41 | 99 | 0.149 | 4 | 3.23 | 0.009 | 0.03 | <0.1 | 0.17 | 10.7 | 0.1 | <0.05 | 6 | 0.7 | <0.2 | |
| LH 03 | Soil | | | 46 | 0.44 | 45 | 0.166 | 1 | 2.15 | 0.007 | 0.02 | <0.1 | 0.11 | 4.3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 | |
| LH 04 | Soil | | | 67 | 0.40 | 64 | 0.204 | 2 | 2.67 | 0.008 | 0.03 | <0.1 | 0.10 | 4.6 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| LH 05 | Soil | | | 57 | 0.77 | 154 | 0.142 | 4 | 4.23 | 0.010 | 0.03 | <0.1 | 0.18 | 18.6 | 0.2 | <0.05 | 7 | <0.5 | <0.2 | |
| LH 06 | Soil | | | 61 | 0.51 | 47 | 0.184 | 2 | 4.74 | 0.009 | 0.04 | <0.1 | 0.15 | 8.5 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| LH 07 | Soil | | | 20 | 0.22 | 102 | 0.044 | 1 | 2.50 | 0.006 | 0.06 | <0.1 | 0.17 | 3.4 | 0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| LH 08 | Soil | | | 59 | 1.15 | 82 | 0.240 | 3 | 3.53 | 0.008 | 0.04 | 0.1 | 0.18 | 15.0 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| LH 09 | Soil | | | 45 | 0.59 | 92 | 0.232 | 2 | 3.19 | 0.008 | 0.03 | 0.1 | 0.12 | 5.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| LH 10 | Soil | | | 24 | 0.20 | 48 | 0.070 | <1 | 1.59 | 0.006 | 0.02 | <0.1 | 0.06 | 2.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| LH 11 | Soil | | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | |
| LH 12 | Soil | | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | |
| LH 13 | Soil | | | 71 | 0.68 | 113 | 0.051 | 2 | 1.97 | 0.006 | 0.03 | <0.1 | 0.20 | 6.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 | |
| LH 14 | Soil | | | 48 | 0.48 | 61 | 0.119 | 2 | 2.16 | 0.010 | 0.03 | 0.1 | 0.14 | 4.9 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| LH 15 | Soil | | | 35 | 0.27 | 27 | 0.169 | 1 | 1.82 | 0.005 | 0.02 | <0.1 | 0.08 | 3.0 | <0.1 | <0.05 | 7 | <0.5 | <0.2 | |
| MP 46 | Soil | | | 22 | 0.37 | 98 | 0.079 | <1 | 1.49 | 0.006 | 0.04 | <0.1 | 0.08 | 3.1 | <0.1 | <0.05 | 6 | <0.5 | <0.2 | |
| MP 47 | Soil | | | 37 | 0.50 | 108 | 0.110 | 2 | 2.87 | 0.007 | 0.04 | <0.1 | 0.08 | 4.0 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| MP 48 | Soil | | | 24 | 0.35 | 59 | 0.112 | 1 | 3.91 | 0.006 | 0.05 | <0.1 | 0.17 | 5.7 | <0.1 | <0.05 | 10 | <0.5 | <0.2 | |
| MP 01 | Soil | | | 79 | 1.57 | 105 | 0.299 | 6 | 3.31 | 0.013 | 0.07 | 0.1 | 0.31 | 13.8 | <0.1 | <0.05 | 10 | 1.1 | <0.2 | |
| MP 02 | Soil | | | 85 | 0.78 | 22 | 0.633 | 2 | 3.50 | 0.012 | 0.02 | 0.1 | 0.12 | 8.6 | <0.1 | <0.05 | 15 | 0.6 | 0.2 | |
| MP 03 | Soil | | | 71 | 0.94 | 17 | 0.681 | 2 | 3.87 | 0.011 | 0.02 | 0.1 | 0.15 | 9.4 | <0.1 | <0.05 | 16 | <0.5 | <0.2 | |
| MP 04 | Soil | | | 88 | 0.56 | 15 | 0.760 | 2 | 4.60 | 0.013 | 0.02 | <0.1 | 0.10 | 10.5 | <0.1 | <0.05 | 20 | <0.5 | <0.2 | |
| MP 05 | Soil | | | 88 | 0.67 | 78 | 0.038 | 7 | 2.65 | 0.012 | 0.04 | <0.1 | 0.18 | 10.2 | <0.1 | <0.05 | 10 | 4.0 | <0.2 | |
| MP 06 | Soil | | | 97 | 0.78 | 74 | 0.032 | 4 | 3.16 | 0.013 | 0.03 | <0.1 | 0.16 | 11.5 | <0.1 | <0.05 | 12 | 2.6 | <0.2 | |
| MP 07 | Soil | | | 114 | 2.38 | 37 | 0.456 | 7 | 4.04 | 0.023 | 0.03 | 0.1 | 0.17 | 14.8 | <0.1 | <0.05 | 11 | <0.5 | <0.2 | |
| MP 08 | Soil | | | 115 | 1.90 | 27 | 0.443 | 6 | 4.95 | 0.015 | 0.02 | 0.2 | 0.15 | 14.9 | <0.1 | <0.05 | 12 | <0.5 | <0.2 | |
| MP 09 | Soil | | | 80 | 0.89 | 33 | 0.515 | 2 | 4.02 | 0.011 | 0.02 | <0.1 | 0.13 | 9.1 | <0.1 | <0.05 | 13 | <0.5 | <0.2 | |
| MP 10 | Soil | | | 44 | 0.28 | 19 | 0.333 | 2 | 1.30 | 0.008 | 0.02 | <0.1 | 0.08 | 2.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| MP 11 | Soil | | | 87 | 0.86 | 20 | 0.434 | 2 | 4.58 | 0.009 | 0.02 | 0.1 | 0.17 | 11.5 | <0.1 | <0.05 | 11 | 1.1 | <0.2 | |
| MP 12 | Soil | | | 58 | 0.59 | 32 | 0.406 | 2 | 2.82 | 0.011 | 0.02 | <0.1 | 0.15 | 6.1 | <0.1 | <0.05 | 11 | 0.8 | <0.2 | |

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Project: None Given
 Report Date: October 04, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | % | % | % | ppm |
| MDL | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | | |
| MP 13 | Soil | 2.5 | 231.3 | 4.4 | 106 | 0.1 | 36.3 | 36.4 | 1065 | 8.81 | 10.0 | 5.5 | 0.8 | 28 | 0.2 | 0.6 | 0.1 | 327 | 0.23 | 0.058 | 3 |
| MP 14 | Soil | 0.4 | 16.3 | 5.8 | 19 | 0.2 | 7.2 | 4.6 | 143 | 5.11 | 4.9 | 7.7 | 0.4 | 14 | <0.1 | 0.7 | <0.1 | 259 | 0.15 | 0.076 | 2 |
| MP 15 | Soil | 0.8 | 103.8 | 3.7 | 51 | 0.4 | 34.4 | 23.5 | 681 | 6.16 | 19.3 | 30.4 | 0.9 | 18 | 0.1 | 0.7 | <0.1 | 198 | 0.28 | 0.107 | 4 |
| MP 16 | Soil | 1.1 | 244.7 | 8.3 | 102 | 0.9 | 45.8 | 28.3 | 508 | 7.54 | 23.5 | 12.6 | 1.1 | 14 | 0.3 | 2.7 | 0.3 | 199 | 0.12 | 0.064 | 4 |
| MP 17 | Soil | 0.6 | 36.0 | 6.5 | 34 | 0.2 | 18.4 | 8.0 | 198 | 4.85 | 9.3 | 1.7 | 0.6 | 16 | 0.1 | 1.0 | 0.1 | 149 | 0.16 | 0.042 | 3 |
| MP 18 | Soil | 0.9 | 103.5 | 10.4 | 97 | 0.4 | 44.8 | 19.9 | 603 | 6.28 | 29.9 | 4.6 | 1.3 | 19 | 0.2 | 1.5 | 0.2 | 169 | 0.23 | 0.108 | 4 |
| MP 19 | Soil | 1.3 | 46.7 | 8.5 | 52 | 0.5 | 24.3 | 12.2 | 482 | 5.79 | 12.0 | 1.2 | 1.1 | 15 | <0.1 | 1.0 | 0.2 | 176 | 0.17 | 0.076 | 3 |
| MP 20 | Soil | 0.7 | 92.9 | 6.9 | 63 | 0.4 | 30.9 | 18.6 | 737 | 7.94 | 9.8 | 5.3 | 0.9 | 22 | 0.1 | 1.4 | 0.2 | 261 | 0.22 | 0.133 | 3 |
| MP 21 | Soil | 0.8 | 57.4 | 3.4 | 55 | 0.2 | 25.1 | 10.6 | 287 | 7.17 | 5.5 | 5.0 | 0.7 | 22 | 0.1 | 0.6 | 0.1 | 325 | 0.27 | 0.066 | 2 |
| MP 22 | Soil | 1.4 | 70.1 | 5.8 | 61 | 0.2 | 24.3 | 11.1 | 289 | 8.60 | 5.8 | 6.6 | 0.7 | 12 | 0.2 | 1.5 | 0.1 | 357 | 0.20 | 0.058 | 3 |
| LH 84 | Soil | 1.0 | 209.8 | 2.9 | 68 | 0.1 | 66.3 | 23.5 | 514 | 5.99 | 5.4 | 11.6 | 0.8 | 18 | <0.1 | 0.5 | <0.1 | 245 | 0.24 | 0.051 | 5 |
| LH 85 | Soil | 1.2 | 87.9 | 5.0 | 54 | 0.2 | 38.9 | 19.4 | 578 | 5.70 | 4.1 | 10.7 | 0.5 | 21 | <0.1 | 0.4 | <0.1 | 233 | 0.44 | 0.059 | 3 |
| LH 86 | Soil | 0.9 | 111.6 | 3.9 | 62 | 0.1 | 52.5 | 25.3 | 716 | 6.14 | 4.7 | 22.8 | 0.5 | 19 | <0.1 | 0.5 | <0.1 | 236 | 0.50 | 0.068 | 3 |
| LH 87 | Soil | 0.8 | 60.8 | 3.6 | 48 | <0.1 | 42.5 | 18.1 | 566 | 4.86 | 4.7 | 9.1 | 0.5 | 17 | <0.1 | 0.5 | <0.1 | 182 | 0.35 | 0.059 | 4 |
| LH 88 | Soil | 1.2 | 80.5 | 3.2 | 38 | <0.1 | 30.2 | 17.1 | 509 | 5.13 | 5.2 | 26.6 | 0.6 | 19 | <0.1 | 0.4 | <0.1 | 201 | 0.37 | 0.085 | 4 |
| LCYSTD-12 | Rock Pulp | 6.8 | 37.7 | 3.9 | 49 | 0.5 | 32.5 | 11.3 | 493 | 3.00 | 5.5 | 592.3 | 1.1 | 36 | 0.2 | 0.8 | <0.1 | 64 | 0.87 | 0.048 | 6 |
| JT 001 | Soil | 0.8 | 21.3 | 4.2 | 41 | 0.1 | 20.9 | 7.2 | 315 | 3.50 | 3.7 | 21.0 | 0.5 | 13 | 0.1 | 0.9 | <0.1 | 137 | 0.29 | 0.082 | 3 |
| JT 002 | Soil | 0.9 | 15.2 | 9.4 | 69 | 0.2 | 28.5 | 26.3 | >10000 | 2.48 | 5.2 | 2.3 | 0.4 | 15 | 0.2 | 1.3 | 0.1 | 61 | 0.31 | 0.072 | 6 |
| JT 003 | Soil | 0.4 | 13.3 | 5.7 | 28 | 0.2 | 9.8 | 3.2 | 150 | 2.53 | 1.2 | 4.0 | 0.4 | 21 | <0.1 | 0.3 | <0.1 | 86 | 0.26 | 0.034 | 2 |
| JT 004 | Soil | 0.7 | 54.9 | 4.6 | 60 | <0.1 | 30.9 | 10.7 | 473 | 4.20 | 5.7 | 1.6 | 0.9 | 10 | 0.1 | 0.9 | <0.1 | 157 | 0.30 | 0.100 | 3 |
| JT 005 | Soil | 2.0 | 55.1 | 4.1 | 52 | <0.1 | 40.1 | 15.6 | 282 | 5.18 | 6.1 | 2.9 | 0.9 | 10 | 0.2 | 1.2 | <0.1 | 199 | 0.26 | 0.022 | 5 |
| JT 006 | Soil | 0.8 | 19.8 | 6.7 | 90 | 0.2 | 43.9 | 22.9 | 2823 | 4.83 | 3.0 | <0.5 | 0.4 | 34 | 0.2 | 0.3 | <0.1 | 162 | 0.71 | 0.076 | 3 |
| JT 007 | Soil | 0.4 | 29.5 | 7.0 | 41 | 0.1 | 21.4 | 8.1 | 486 | 3.05 | 3.7 | 1.3 | 0.7 | 8 | <0.1 | 0.5 | <0.1 | 117 | 0.25 | 0.043 | 2 |
| JT 008 | Soil | 0.5 | 16.3 | 4.1 | 30 | 0.2 | 10.8 | 4.6 | 166 | 2.79 | 2.3 | 0.9 | 0.4 | 21 | 0.2 | 0.4 | <0.1 | 124 | 0.25 | 0.017 | 3 |
| JT 009 | Soil | 0.2 | 2.6 | 5.6 | 23 | <0.1 | 8.5 | 4.9 | 182 | 1.83 | 0.7 | 1.2 | 0.2 | 16 | <0.1 | 0.3 | <0.1 | 90 | 0.28 | 0.013 | 2 |
| JT 010 | Soil | 0.8 | 31.1 | 4.7 | 36 | 0.1 | 17.2 | 6.0 | 212 | 4.22 | 2.6 | 1.2 | 0.7 | 11 | <0.1 | 0.6 | <0.1 | 172 | 0.23 | 0.040 | 3 |
| JT 011 | Soil | 0.8 | 29.9 | 6.2 | 58 | 0.1 | 20.7 | 8.5 | 505 | 4.03 | 5.2 | 1.4 | 0.5 | 10 | 0.2 | 0.6 | <0.1 | 156 | 0.27 | 0.073 | 3 |
| JT 012 | Soil | 0.5 | 47.9 | 6.4 | 66 | <0.1 | 23.4 | 10.8 | 389 | 4.38 | 6.3 | 1.5 | 0.6 | 9 | 0.1 | 0.7 | <0.1 | 189 | 0.30 | 0.068 | 3 |
| JT 013 | Soil | 0.9 | 37.0 | 5.4 | 39 | <0.1 | 35.1 | 14.0 | 414 | 5.05 | 5.1 | 1.1 | 0.7 | 8 | <0.1 | 0.8 | <0.1 | 193 | 0.26 | 0.022 | 4 |
| JT 014 | Soil | 1.8 | 37.7 | 5.5 | 126 | 0.1 | 58.0 | 32.0 | 1349 | 6.74 | 10.5 | 1.4 | 1.0 | 9 | 0.2 | 1.5 | <0.1 | 227 | 0.35 | 0.054 | 7 |

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Project: None Given
 Report Date: October 04, 2012

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Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | G6 |
|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te | Au |
| Unit | | ppm | % | ppm | % | ppm | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | gm/t |
| MDL | | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 1 | 0.5 | 0.2 | 0.005 | |
| MP 13 | Soil | 95 | 0.85 | 41 | 0.591 | 2 | 3.76 | 0.010 | 0.02 | 0.2 | 0.10 | 7.5 | <0.1 | <0.05 | 16 | 0.5 | <0.2 | |
| MP 14 | Soil | 42 | 0.23 | 21 | 0.444 | 1 | 1.25 | 0.007 | 0.02 | <0.1 | 0.07 | 2.4 | <0.1 | <0.05 | 12 | <0.5 | <0.2 | |
| MP 15 | Soil | 81 | 1.04 | 36 | 0.338 | 2 | 4.34 | 0.008 | 0.03 | <0.1 | 0.15 | 12.7 | <0.1 | <0.05 | 11 | 0.6 | <0.2 | |
| MP 16 | Soil | 70 | 1.07 | 59 | 0.077 | 3 | 4.65 | 0.014 | 0.04 | 0.1 | 0.23 | 14.3 | <0.1 | <0.05 | 12 | 0.8 | <0.2 | |
| MP 17 | Soil | 41 | 0.46 | 34 | 0.115 | 2 | 2.11 | 0.008 | 0.02 | <0.1 | 0.06 | 4.1 | <0.1 | <0.05 | 11 | <0.5 | <0.2 | |
| MP 18 | Soil | 75 | 1.12 | 63 | 0.174 | 4 | 4.48 | 0.011 | 0.06 | 0.2 | 0.31 | 10.8 | <0.1 | <0.05 | 12 | 0.7 | <0.2 | |
| MP 19 | Soil | 64 | 0.64 | 49 | 0.216 | 1 | 2.94 | 0.008 | 0.03 | 0.1 | 0.25 | 7.3 | <0.1 | <0.05 | 11 | 0.5 | <0.2 | |
| MP 20 | Soil | 74 | 1.00 | 67 | 0.472 | 2 | 3.83 | 0.012 | 0.02 | 0.2 | 0.22 | 12.0 | <0.1 | <0.05 | 14 | 0.6 | <0.2 | |
| MP 21 | Soil | 81 | 0.74 | 18 | 0.607 | 3 | 3.70 | 0.012 | <0.01 | 0.1 | 0.15 | 6.4 | <0.1 | <0.05 | 14 | <0.5 | <0.2 | |
| MP 22 | Soil | 77 | 0.69 | 23 | 0.615 | 2 | 4.21 | 0.008 | 0.01 | 0.1 | 0.25 | 8.6 | <0.1 | <0.05 | 14 | 1.0 | <0.2 | |
| LH 84 | Soil | 116 | 1.70 | 56 | 0.370 | 3 | 5.17 | 0.008 | 0.04 | 0.2 | 0.13 | 17.3 | <0.1 | <0.05 | 12 | 0.9 | <0.2 | |
| LH 85 | Soil | 77 | 1.11 | 32 | 0.360 | 3 | 3.32 | 0.011 | 0.02 | 0.1 | 0.11 | 7.9 | <0.1 | <0.05 | 12 | <0.5 | <0.2 | |
| LH 86 | Soil | 95 | 1.28 | 53 | 0.315 | 4 | 3.97 | 0.007 | 0.03 | 0.1 | 0.12 | 8.7 | <0.1 | <0.05 | 12 | 0.5 | <0.2 | |
| LH 87 | Soil | 77 | 1.07 | 46 | 0.104 | 3 | 3.32 | 0.006 | 0.04 | 0.1 | 0.11 | 7.1 | <0.1 | <0.05 | 10 | <0.5 | <0.2 | |
| LH 88 | Soil | 75 | 0.97 | 28 | 0.192 | 3 | 3.56 | 0.007 | 0.03 | 0.1 | 0.12 | 7.8 | <0.1 | <0.05 | 10 | <0.5 | <0.2 | |
| LCYSTD-12 | Rock Pulp | 37 | 0.74 | 126 | 0.115 | 5 | 1.51 | 0.122 | 0.15 | 25.4 | 0.06 | 5.6 | <0.1 | <0.05 | 5 | <0.5 | <0.2 | |
| JT 001 | Soil | 38 | 0.45 | 40 | 0.119 | 1 | 2.26 | 0.005 | 0.02 | <0.1 | 0.15 | 3.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| JT 002 | Soil | 30 | 0.30 | 203 | 0.099 | 1 | 1.66 | 0.006 | 0.03 | <0.1 | 0.15 | 4.3 | 0.2 | <0.05 | 7 | 0.7 | <0.2 | |
| JT 003 | Soil | 43 | 0.22 | 21 | 0.124 | <1 | 1.42 | 0.004 | 0.02 | <0.1 | 0.14 | 2.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 | |
| JT 004 | Soil | 53 | 0.55 | 38 | 0.124 | 2 | 3.69 | 0.006 | 0.04 | <0.1 | 0.13 | 5.3 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| JT 005 | Soil | 65 | 0.63 | 81 | 0.179 | 2 | 3.82 | 0.007 | 0.03 | <0.1 | 0.20 | 8.9 | <0.1 | <0.05 | 11 | <0.5 | <0.2 | |
| JT 006 | Soil | 100 | 1.71 | 174 | 0.384 | 2 | 3.13 | 0.005 | 0.04 | <0.1 | 0.11 | 8.6 | <0.1 | <0.05 | 11 | <0.5 | <0.2 | |
| JT 007 | Soil | 41 | 0.53 | 28 | 0.110 | 2 | 2.76 | 0.006 | 0.03 | <0.1 | 0.13 | 3.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| JT 008 | Soil | 34 | 0.41 | 55 | 0.228 | <1 | 1.38 | 0.005 | 0.02 | <0.1 | 0.05 | 3.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 | |
| JT 009 | Soil | 21 | 0.51 | 24 | 0.283 | <1 | 1.80 | 0.006 | 0.01 | <0.1 | 0.04 | 2.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| JT 010 | Soil | 50 | 0.34 | 25 | 0.192 | 1 | 2.73 | 0.006 | 0.01 | <0.1 | 0.09 | 5.4 | <0.1 | <0.05 | 10 | <0.5 | <0.2 | |
| JT 011 | Soil | 43 | 0.45 | 67 | 0.126 | 2 | 2.11 | 0.006 | 0.02 | <0.1 | 0.10 | 3.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| JT 012 | Soil | 47 | 0.37 | 51 | 0.202 | 1 | 3.07 | 0.006 | 0.02 | <0.1 | 0.10 | 5.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| JT 013 | Soil | 53 | 0.43 | 67 | 0.232 | 2 | 3.34 | 0.006 | 0.02 | <0.1 | 0.08 | 4.7 | <0.1 | <0.05 | 10 | <0.5 | <0.2 | |
| JT 014 | Soil | 73 | 0.59 | 99 | 0.234 | 3 | 4.27 | 0.007 | 0.03 | <0.1 | 0.10 | 9.2 | 0.1 | <0.05 | 11 | <0.5 | <0.2 | |

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Project: None Given
 Report Date: October 04, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | | |
|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| | | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | | | | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | % | % | % | ppm | | |
| | | | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | |
| JT 015 | Soil | | | 0.5 | 20.4 | 11.7 | 31 | <0.1 | 11.1 | 7.5 | 723 | 3.33 | 4.1 | 1.6 | 0.3 | 19 | 0.1 | 0.5 | 0.1 | 104 | 0.27 | 0.077 | 5 |
| JT 016 | Soil | | | 0.5 | 31.4 | 6.4 | 56 | <0.1 | 24.5 | 10.2 | 1444 | 4.22 | 6.5 | 1.0 | 0.6 | 9 | <0.1 | 0.5 | <0.1 | 153 | 0.25 | 0.136 | 3 |
| JT 017 | Soil | | | 0.3 | 8.8 | 6.3 | 23 | <0.1 | 6.8 | 3.2 | 633 | 2.73 | 3.5 | 1.6 | 0.5 | 11 | <0.1 | 0.4 | <0.1 | 98 | 0.30 | 0.136 | 3 |
| JT 018 | Soil | | | 0.7 | 49.8 | 7.1 | 74 | 0.2 | 39.6 | 23.5 | 1887 | 5.94 | 6.9 | 6.6 | 0.7 | 15 | 0.2 | 1.1 | 0.1 | 267 | 0.50 | 0.112 | 4 |
| JT 019 | Soil | | | 0.9 | 57.8 | 5.0 | 69 | 0.3 | 32.0 | 11.8 | 1145 | 4.98 | 10.5 | 2304 | 0.8 | 9 | 0.2 | 1.3 | <0.1 | 187 | 0.28 | 0.095 | 3 |
| JT 020 | Soil | | | 0.4 | 29.0 | 4.8 | 55 | 0.2 | 26.8 | 11.3 | 713 | 3.80 | 6.4 | 3.1 | 0.4 | 11 | 0.1 | 0.7 | <0.1 | 152 | 0.35 | 0.040 | 3 |
| JT 021 | Soil | | | 0.8 | 103.0 | 8.1 | 79 | 0.2 | 50.4 | 19.8 | 1179 | 5.08 | 7.4 | 3.9 | 0.7 | 15 | 0.3 | 0.8 | <0.1 | 219 | 0.34 | 0.045 | 6 |
| JT 022 | Soil | | | 0.5 | 18.2 | 4.7 | 82 | <0.1 | 20.6 | 16.7 | 5391 | 2.89 | 2.0 | 0.9 | 0.3 | 23 | 0.5 | 0.2 | <0.1 | 86 | 0.39 | 0.068 | 4 |
| JT 023 | Soil | | | 0.8 | 42.3 | 5.0 | 66 | 0.2 | 31.5 | 11.7 | 603 | 3.87 | 4.7 | 1.7 | 0.6 | 12 | 0.4 | 1.3 | <0.1 | 105 | 0.47 | 0.048 | 8 |
| JT 024 | Soil | | | 0.6 | 10.8 | 4.0 | 43 | <0.1 | 27.1 | 11.1 | 508 | 3.85 | 2.5 | 1.1 | 0.4 | 12 | <0.1 | 4.7 | <0.1 | 136 | 0.33 | 0.022 | 4 |
| JT 025 | Soil | | | 1.1 | 14.3 | 7.7 | 47 | 0.3 | 29.0 | 9.6 | 2417 | 3.70 | 3.4 | 5.2 | 0.3 | 31 | 0.2 | 0.5 | <0.1 | 87 | 0.44 | 0.098 | 2 |
| JT 026 | Soil | | | 0.9 | 26.5 | 4.9 | 55 | 0.1 | 26.2 | 10.1 | 402 | 4.28 | 5.0 | 1.6 | 0.6 | 9 | 0.1 | 0.6 | <0.1 | 181 | 0.35 | 0.054 | 2 |
| JT 027 | Soil | | | 2.4 | 33.5 | 4.8 | 40 | 0.1 | 31.8 | 12.3 | 399 | 5.28 | 5.1 | 1.9 | 0.6 | 12 | 0.1 | 1.1 | <0.1 | 213 | 0.35 | 0.051 | 3 |
| JT 028 | Soil | | | 1.4 | 52.1 | 5.3 | 34 | 0.3 | 47.8 | 15.8 | 540 | 5.39 | 5.8 | 2.1 | 0.8 | 16 | 0.2 | 1.4 | <0.1 | 196 | 0.83 | 0.048 | 4 |
| JT 029 | Soil | | | 0.9 | 29.5 | 5.2 | 45 | <0.1 | 20.5 | 9.3 | 633 | 4.57 | 3.4 | 2.4 | 0.9 | 15 | 0.1 | 0.8 | 0.1 | 176 | 0.27 | 0.167 | 3 |
| JT 030 | Soil | | | 2.6 | 49.6 | 3.8 | 45 | 0.1 | 36.4 | 19.0 | 292 | 4.11 | 4.4 | 2.2 | 0.7 | 12 | <0.1 | 2.1 | <0.1 | 183 | 0.29 | 0.051 | 5 |
| JT 031 | Soil | | | 0.6 | 15.8 | 4.2 | 27 | <0.1 | 9.7 | 4.8 | 146 | 2.50 | 1.0 | 1.7 | 0.7 | 19 | <0.1 | 0.6 | <0.1 | 84 | 0.25 | 0.028 | 3 |
| JT 032 | Soil | | | 1.2 | 17.9 | 13.3 | 37 | 0.1 | 13.6 | 7.9 | 265 | 4.19 | 1.8 | 2.9 | 0.5 | 24 | <0.1 | 0.9 | <0.1 | 189 | 0.33 | 0.036 | 3 |
| JT 033 | Soil | | | 0.6 | 27.6 | 11.7 | 46 | <0.1 | 15.8 | 11.7 | 1128 | 3.40 | 2.3 | 1.9 | 0.7 | 18 | 0.1 | 0.6 | 0.1 | 112 | 0.35 | 0.035 | 5 |
| JT 034 | Soil | | | 1.0 | 41.5 | 4.3 | 47 | 0.1 | 22.1 | 13.6 | 516 | 3.80 | 4.8 | 2.7 | 0.7 | 12 | 0.2 | 0.6 | <0.1 | 152 | 0.32 | 0.038 | 4 |
| JT 035 | Soil | | | 0.6 | 18.7 | 3.8 | 34 | 0.1 | 13.1 | 5.8 | 148 | 3.17 | 2.2 | 3.5 | 0.5 | 15 | <0.1 | 0.4 | <0.1 | 110 | 0.25 | 0.040 | 2 |
| JT 036 | Soil | | | 1.5 | 6.1 | 4.7 | 26 | <0.1 | 14.8 | 4.6 | 103 | 2.68 | 7.0 | 0.6 | 0.3 | 15 | <0.1 | 2.9 | <0.1 | 93 | 0.32 | 0.013 | 3 |
| JT 037 | Soil | | | 1.0 | 39.0 | 6.9 | 62 | <0.1 | 43.8 | 16.5 | 313 | 4.39 | 6.9 | 1.8 | 0.8 | 16 | 0.1 | 1.1 | <0.1 | 159 | 0.30 | 0.067 | 3 |
| JT 038 | Soil | | | 0.5 | 14.0 | 5.0 | 33 | <0.1 | 15.9 | 5.6 | 157 | 3.15 | 2.1 | <0.5 | 0.5 | 11 | <0.1 | 0.9 | <0.1 | 107 | 0.24 | 0.025 | 3 |
| JT 039 | Soil | | | 1.4 | 63.8 | 4.7 | 67 | 0.2 | 31.1 | 13.0 | 348 | 4.56 | 5.5 | 1.7 | 1.0 | 10 | 0.2 | 0.7 | <0.1 | 174 | 0.23 | 0.108 | 3 |
| JT 040 | Soil | | | 0.6 | 27.9 | 4.8 | 43 | 0.2 | 20.0 | 7.7 | 179 | 3.57 | 5.1 | 1.4 | 0.7 | 12 | 0.1 | 0.7 | <0.1 | 118 | 0.26 | 0.056 | 3 |
| JT 041 | Soil | | | 1.4 | 41.3 | 4.4 | 43 | 0.3 | 48.1 | 16.8 | 402 | 3.73 | 4.9 | 3.2 | 0.6 | 24 | 0.2 | 0.9 | <0.1 | 111 | 0.88 | 0.064 | 11 |
| JT 042 | Soil | | | 1.1 | 31.4 | 4.9 | 60 | 0.1 | 30.9 | 16.0 | 738 | 3.86 | 4.3 | 1.8 | 0.9 | 12 | <0.1 | 0.5 | <0.1 | 119 | 0.36 | 0.076 | 5 |
| JT 043 | Soil | | | 0.7 | 29.4 | 4.5 | 46 | <0.1 | 19.6 | 11.0 | 257 | 3.70 | 3.0 | 3.3 | 0.8 | 12 | <0.1 | 0.4 | <0.1 | 115 | 0.33 | 0.042 | 4 |
| JT 044 | Soil | | | 0.5 | 48.1 | 3.8 | 51 | <0.1 | 45.6 | 17.4 | 519 | 3.58 | 7.3 | 1.4 | 0.8 | 13 | <0.1 | 1.0 | <0.1 | 115 | 0.34 | 0.123 | 4 |

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Project: None Given
 Report Date: October 04, 2012

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Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | G6 |
|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te | Au |
| Unit | | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | gm/t |
| MDL | | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 1 | 0.5 | 0.2 | 0.005 | |
| JT 015 | Soil | 27 | 0.20 | 46 | 0.090 | 1 | 2.49 | 0.005 | 0.02 | <0.1 | 0.14 | 3.9 | <0.1 | <0.05 | 7 | <0.5 | <0.2 | |
| JT 016 | Soil | 62 | 0.48 | 35 | 0.127 | 2 | 2.68 | 0.006 | 0.03 | <0.1 | 0.18 | 4.4 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| JT 017 | Soil | 26 | 0.15 | 27 | 0.114 | 2 | 1.13 | 0.005 | 0.01 | <0.1 | 0.04 | 3.0 | <0.1 | <0.05 | 7 | <0.5 | <0.2 | |
| JT 018 | Soil | 107 | 1.47 | 98 | 0.177 | 2 | 4.43 | 0.005 | 0.03 | 0.1 | 0.13 | 12.6 | 0.1 | <0.05 | 13 | <0.5 | <0.2 | |
| JT 019 | Soil | 66 | 0.59 | 55 | 0.203 | 2 | 3.94 | 0.005 | 0.02 | <0.1 | 0.17 | 5.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | <0.005 |
| JT 020 | Soil | 55 | 0.52 | 80 | 0.199 | <1 | 2.00 | 0.007 | 0.02 | <0.1 | 0.06 | 3.6 | <0.1 | <0.05 | 7 | <0.5 | <0.2 | |
| JT 021 | Soil | 83 | 1.56 | 160 | 0.022 | 2 | 4.31 | 0.005 | 0.04 | <0.1 | 0.09 | 10.1 | <0.1 | <0.05 | 10 | <0.5 | <0.2 | |
| JT 022 | Soil | 33 | 0.68 | 216 | 0.008 | <1 | 2.31 | 0.006 | 0.04 | <0.1 | 0.07 | 5.2 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| JT 023 | Soil | 42 | 0.62 | 98 | 0.088 | 3 | 2.90 | 0.007 | 0.03 | <0.1 | 0.13 | 5.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| JT 024 | Soil | 43 | 0.44 | 69 | 0.066 | 1 | 1.63 | 0.005 | 0.02 | 0.2 | 0.14 | 3.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 | |
| JT 025 | Soil | 49 | 0.51 | 54 | 0.354 | 2 | 1.56 | 0.005 | 0.02 | <0.1 | 0.16 | 3.0 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| JT 026 | Soil | 47 | 0.43 | 49 | 0.236 | 1 | 2.83 | 0.006 | 0.02 | <0.1 | 0.21 | 4.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| JT 027 | Soil | 61 | 0.52 | 74 | 0.277 | 2 | 3.18 | 0.007 | 0.02 | <0.1 | 0.16 | 4.4 | <0.1 | <0.05 | 10 | <0.5 | <0.2 | |
| JT 028 | Soil | 96 | 0.50 | 89 | 0.206 | 3 | 4.04 | 0.006 | 0.01 | 0.1 | 0.18 | 6.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| JT 029 | Soil | 62 | 0.43 | 48 | 0.207 | 2 | 3.14 | 0.005 | 0.03 | 0.1 | 0.16 | 4.3 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| JT 030 | Soil | 58 | 0.52 | 55 | 0.221 | 2 | 3.80 | 0.006 | 0.02 | 0.1 | 0.23 | 5.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| JT 031 | Soil | 28 | 0.29 | 23 | 0.092 | <1 | 1.91 | 0.004 | 0.01 | <0.1 | 0.21 | 2.9 | <0.1 | <0.05 | 7 | <0.5 | <0.2 | |
| JT 032 | Soil | 40 | 0.38 | 51 | 0.116 | <1 | 2.23 | 0.006 | 0.02 | <0.1 | 0.07 | 4.1 | <0.1 | <0.05 | 10 | <0.5 | <0.2 | |
| JT 033 | Soil | 30 | 0.31 | 141 | 0.101 | 2 | 2.44 | 0.006 | 0.04 | <0.1 | 0.11 | 4.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| JT 034 | Soil | 38 | 0.51 | 84 | 0.101 | 2 | 2.69 | 0.008 | 0.02 | <0.1 | 0.09 | 5.2 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| JT 035 | Soil | 33 | 0.37 | 40 | 0.047 | <1 | 2.14 | 0.005 | 0.02 | <0.1 | 0.09 | 3.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| JT 036 | Soil | 28 | 0.18 | 66 | 0.023 | <1 | 1.23 | 0.003 | 0.02 | 0.1 | 0.08 | 3.0 | <0.1 | <0.05 | 6 | <0.5 | <0.2 | |
| JT 037 | Soil | 64 | 0.80 | 58 | 0.256 | 2 | 3.15 | 0.006 | 0.03 | <0.1 | 0.10 | 6.0 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| JT 038 | Soil | 28 | 0.20 | 45 | 0.087 | <1 | 1.50 | 0.006 | 0.01 | <0.1 | 0.05 | 3.0 | <0.1 | <0.05 | 7 | <0.5 | <0.2 | |
| JT 039 | Soil | 63 | 0.58 | 41 | 0.143 | 2 | 5.12 | 0.007 | 0.04 | <0.1 | 0.24 | 6.3 | <0.1 | <0.05 | 11 | <0.5 | <0.2 | |
| JT 040 | Soil | 41 | 0.32 | 37 | 0.099 | <1 | 2.60 | 0.005 | 0.02 | <0.1 | 0.24 | 4.1 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| JT 041 | Soil | 60 | 0.65 | 148 | 0.134 | 5 | 4.00 | 0.010 | 0.02 | <0.1 | 0.29 | 9.6 | <0.1 | <0.05 | 10 | 1.7 | <0.2 | |
| JT 042 | Soil | 46 | 0.44 | 131 | 0.148 | 2 | 3.43 | 0.007 | 0.03 | <0.1 | 0.13 | 5.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| JT 043 | Soil | 36 | 0.39 | 97 | 0.090 | 1 | 2.64 | 0.007 | 0.03 | <0.1 | 0.09 | 4.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| JT 044 | Soil | 66 | 0.61 | 122 | 0.082 | 2 | 2.94 | 0.008 | 0.04 | <0.1 | 0.07 | 5.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |

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Project: None Given
 Report Date: October 04, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | 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 | 2 | 0.01 | 0.001 | ppm | |
| JT 045 | Soil | 1.1 | 46.9 | 4.4 | 42 | 0.1 | 47.0 | 18.3 | 536 | 4.69 | 3.9 | 2.4 | 0.8 | 12 | <0.1 | 0.6 | <0.1 | 175 | 0.33 | 0.044 | 5 |
| LCYSTD 13 | Rock Pulp | 33.4 | 7453 | 4646 | >10000 | 72.7 | 39.2 | 53.6 | 521 | 4.94 | 46.5 | 532.6 | 3.7 | 31 | 56.7 | 66.3 | 10.1 | 65 | 0.86 | 0.042 | 9 |
| JT 046 | Soil | 0.2 | 31.4 | 6.0 | 56 | 0.1 | 47.4 | 25.9 | 982 | 3.41 | 3.7 | 1.9 | 0.3 | 18 | <0.1 | 0.5 | <0.1 | 116 | 0.37 | 0.053 | 4 |
| JT 047 | Soil | 0.8 | 108.7 | 4.8 | 65 | 0.2 | 74.8 | 30.8 | 830 | 5.93 | 11.4 | 8.5 | 0.7 | 17 | 0.1 | 2.7 | <0.1 | 160 | 0.34 | 0.063 | 6 |
| JT 048 | Soil | 0.7 | 33.5 | 4.0 | 48 | <0.1 | 25.9 | 12.2 | 396 | 3.65 | 4.2 | 6.5 | 1.0 | 12 | <0.1 | 0.6 | <0.1 | 124 | 0.28 | 0.087 | 3 |
| JT 049 | Soil | 0.3 | 23.4 | 4.2 | 62 | <0.1 | 16.8 | 13.2 | 723 | 2.81 | 2.4 | 2.1 | 0.7 | 15 | <0.1 | 0.3 | <0.1 | 93 | 0.32 | 0.073 | 3 |
| JT 050 | Soil | 0.6 | 37.9 | 3.7 | 53 | <0.1 | 25.0 | 12.4 | 1252 | 3.40 | 5.7 | <0.5 | 0.8 | 11 | <0.1 | 0.6 | <0.1 | 109 | 0.26 | 0.194 | 3 |
| JT 051 | Soil | 0.5 | 76.5 | 4.3 | 42 | 0.1 | 39.3 | 18.1 | 668 | 3.80 | 9.4 | 2.7 | 0.9 | 13 | <0.1 | 1.7 | <0.1 | 157 | 0.26 | 0.055 | 3 |
| JT 052 | Soil | 0.6 | 36.7 | 3.8 | 50 | 0.2 | 29.4 | 13.9 | 276 | 3.43 | 7.3 | 1.3 | 0.6 | 17 | <0.1 | 1.1 | <0.1 | 112 | 0.30 | 0.048 | 3 |
| JT 053 | Soil | 0.8 | 25.4 | 4.4 | 32 | <0.1 | 17.4 | 9.9 | 318 | 4.11 | 4.7 | 7.2 | 0.6 | 13 | <0.1 | 2.1 | <0.1 | 172 | 0.25 | 0.021 | 3 |
| JT 054 | Soil | 0.7 | 18.7 | 3.3 | 88 | <0.1 | 37.1 | 14.4 | 225 | 2.71 | 6.3 | 0.5 | 0.6 | 6 | 0.2 | 0.5 | <0.1 | 79 | 0.17 | 0.035 | 3 |
| JT 055 | Soil | 1.9 | 116.2 | 6.2 | 233 | 0.3 | 45.8 | 92.8 | 7964 | 5.63 | 4.0 | 4.8 | 1.0 | 20 | 0.3 | 1.4 | 0.1 | 145 | 0.45 | 0.138 | 9 |
| JT 056 | Soil | 1.3 | 32.1 | 14.2 | 55 | <0.1 | 11.0 | 9.1 | 971 | 7.51 | 5.1 | 1.1 | 1.2 | 20 | 0.1 | 0.7 | 0.2 | 268 | 0.30 | 0.131 | 3 |
| JT 057 | Soil | 0.9 | 46.2 | 6.5 | 80 | <0.1 | 24.5 | 14.4 | 361 | 5.94 | 5.4 | 2.4 | 1.2 | 15 | <0.1 | 0.6 | 0.1 | 215 | 0.31 | 0.098 | 3 |
| JT 058 | Soil | 0.8 | 57.7 | 5.2 | 48 | <0.1 | 28.5 | 12.5 | 367 | 6.01 | 7.3 | 4.1 | 1.3 | 10 | <0.1 | 0.9 | <0.1 | 242 | 0.28 | 0.062 | 4 |
| JT 059 | Soil | 0.6 | 29.3 | 6.0 | 56 | <0.1 | 16.0 | 9.6 | 358 | 3.90 | 4.9 | 1.6 | 0.7 | 10 | <0.1 | 0.6 | <0.1 | 121 | 0.19 | 0.078 | 4 |
| JT 060 | Soil | 1.7 | 58.1 | 8.3 | 98 | 0.2 | 15.9 | 20.8 | 1090 | 5.42 | 9.7 | 8.9 | 0.7 | 17 | 0.3 | 2.1 | 0.1 | 207 | 0.25 | 0.066 | 6 |
| JT 061 | Soil | 2.3 | 34.5 | 6.0 | 125 | 0.1 | 18.8 | 16.4 | 874 | 5.48 | 53.5 | 2.0 | 1.2 | 10 | 0.4 | 0.9 | <0.1 | 112 | 0.27 | 0.224 | 5 |
| JT 062 | Soil | 0.6 | 55.7 | 3.6 | 104 | <0.1 | 6.7 | 33.2 | 1743 | 8.23 | 6.2 | <0.5 | 0.6 | 41 | 0.1 | 0.5 | <0.1 | 245 | 0.57 | 0.201 | 8 |
| JT 063 | Soil | 1.0 | 27.8 | 8.7 | 84 | <0.1 | 16.8 | 18.8 | 3085 | 5.21 | 7.0 | 5.6 | 1.1 | 13 | <0.1 | 0.7 | 0.1 | 175 | 0.33 | 0.117 | 4 |
| JT 064 | Soil | 0.4 | 9.1 | 6.2 | 28 | <0.1 | 2.6 | 11.3 | 1935 | 3.83 | 0.7 | <0.5 | 0.5 | 35 | 0.1 | 0.8 | 0.1 | 110 | 0.26 | 0.041 | 5 |
| JT 065 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| JT 066 | Soil | 0.3 | 95.3 | 5.8 | 105 | 0.1 | 51.9 | 32.2 | 910 | 9.12 | 3.1 | 4.0 | 0.7 | 43 | 0.2 | 0.4 | <0.1 | 279 | 0.29 | 0.076 | 3 |
| JT 067 | Soil | 0.5 | 17.0 | 174.0 | 96 | 0.5 | 23.5 | 17.6 | 372 | 9.01 | 13.9 | 0.6 | 0.4 | 13 | 0.2 | 1.5 | 0.3 | 334 | 0.13 | 0.063 | 2 |
| JT 068 | Soil | 0.3 | 227.4 | 19.6 | 119 | 0.9 | 47.2 | 38.6 | 1446 | 6.48 | 5.6 | 8.2 | 0.5 | 103 | 0.6 | 0.3 | <0.1 | 215 | 1.89 | 0.092 | 6 |
| JT 069 | Soil | 0.7 | 74.4 | 7.6 | 96 | 0.5 | 33.5 | 23.3 | 929 | 10.87 | 4.4 | 0.6 | 0.4 | 6 | 0.4 | 0.6 | 0.1 | 411 | 0.13 | 0.093 | 3 |
| JT 070 | Soil | 0.5 | 135.1 | 4.3 | 63 | 0.2 | 34.8 | 22.8 | 768 | 9.15 | 6.2 | 14.7 | 0.5 | 36 | 0.2 | 0.3 | 0.5 | 301 | 0.31 | 0.077 | 3 |
| JT 071 | Soil | 0.6 | 212.0 | 2.6 | 73 | 0.2 | 58.5 | 36.1 | 1552 | 7.90 | 2.3 | 7.8 | 0.6 | 65 | 0.1 | 0.3 | <0.1 | 276 | 0.94 | 0.084 | 6 |
| JT 072 | Soil | 0.6 | 64.0 | 4.7 | 50 | 0.1 | 25.4 | 12.6 | 518 | 9.46 | 5.1 | 5.9 | 0.7 | 16 | <0.1 | 1.2 | 0.1 | 360 | 0.28 | 0.074 | 2 |
| JT 073 | Soil | 0.9 | 133.5 | 2.5 | 51 | 0.1 | 30.3 | 15.7 | 594 | 10.65 | 3.4 | 7.8 | 1.1 | 11 | 0.1 | 0.4 | <0.1 | 332 | 0.24 | 0.109 | 3 |

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Project: None Given
 Report Date: October 04, 2012

Page: 5 of 9

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | G6 | |
|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te | Au | | | |
| Unit | | ppm | % | ppm | % | ppm | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | gm/t | |
| MDL | | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 1 | 0.5 | 0.2 | 0.005 | | | | |
| JT 045 | Soil | 82 | 0.67 | 94 | 0.124 | 1 | 3.07 | 0.007 | 0.04 | <0.1 | 0.19 | 6.0 | <0.1 | <0.05 | 10 | <0.5 | <0.2 | | | | |
| LCYSTD 13 | Rock Pulp | 37 | 1.09 | 64 | 0.113 | 4 | 1.70 | 0.095 | 0.22 | 29.9 | 1.90 | 4.5 | 1.9 | 3.13 | 9 | 3.9 | <0.2 | | | | |
| JT 046 | Soil | 214 | 1.07 | 123 | 0.024 | <1 | 2.21 | 0.004 | 0.02 | <0.1 | 0.19 | 8.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | | | | |
| JT 047 | Soil | 101 | 0.78 | 129 | 0.072 | 2 | 2.93 | 0.007 | 0.04 | <0.1 | 0.13 | 7.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | | | | |
| JT 048 | Soil | 57 | 0.41 | 40 | 0.155 | 1 | 3.23 | 0.006 | 0.02 | <0.1 | 0.15 | 5.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | | | | |
| JT 049 | Soil | 38 | 0.37 | 55 | 0.117 | <1 | 2.16 | 0.006 | 0.01 | <0.1 | 0.12 | 3.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | | | | |
| JT 050 | Soil | 64 | 0.58 | 43 | 0.129 | 2 | 3.27 | 0.005 | 0.02 | <0.1 | 0.12 | 4.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | | | | |
| JT 051 | Soil | 94 | 0.90 | 45 | 0.154 | 2 | 3.28 | 0.007 | 0.03 | <0.1 | 0.14 | 7.0 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | | | | |
| JT 052 | Soil | 61 | 0.60 | 41 | 0.130 | 1 | 2.24 | 0.006 | 0.02 | <0.1 | 0.07 | 4.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | | | | |
| JT 053 | Soil | 53 | 0.39 | 51 | 0.090 | <1 | 1.87 | 0.006 | 0.01 | <0.1 | 0.17 | 5.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | | | | |
| JT 054 | Soil | 31 | 0.30 | 60 | 0.055 | 1 | 2.66 | 0.004 | 0.02 | <0.1 | 0.09 | 2.4 | <0.1 | <0.05 | 6 | <0.5 | <0.2 | | | | |
| JT 055 | Soil | 57 | 0.41 | 177 | 0.107 | 3 | 5.29 | 0.007 | 0.04 | <0.1 | 0.36 | 12.5 | 0.2 | <0.05 | 11 | 0.9 | <0.2 | | | | |
| JT 056 | Soil | 49 | 0.43 | 42 | 0.221 | 2 | 3.58 | 0.005 | 0.03 | <0.1 | 0.10 | 6.0 | <0.1 | <0.05 | 14 | <0.5 | <0.2 | | | | |
| JT 057 | Soil | 57 | 0.59 | 44 | 0.230 | 2 | 4.43 | 0.006 | 0.03 | <0.1 | 0.11 | 6.5 | <0.1 | <0.05 | 13 | <0.5 | <0.2 | | | | |
| JT 058 | Soil | 68 | 0.65 | 33 | 0.227 | 2 | 4.74 | 0.005 | 0.02 | <0.1 | 0.07 | 9.8 | <0.1 | <0.05 | 13 | <0.5 | <0.2 | | | | |
| JT 059 | Soil | 35 | 0.25 | 40 | 0.092 | <1 | 2.56 | 0.005 | 0.02 | <0.1 | 0.07 | 4.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | | | | |
| JT 060 | Soil | 43 | 0.48 | 101 | 0.012 | 1 | 3.16 | 0.007 | 0.04 | <0.1 | 0.13 | 8.5 | <0.1 | <0.05 | 10 | <0.5 | <0.2 | | | | |
| JT 061 | Soil | 38 | 0.66 | 46 | 0.234 | 2 | 3.33 | 0.006 | 0.04 | <0.1 | 0.11 | 6.5 | <0.1 | <0.05 | 12 | <0.5 | <0.2 | | | | |
| JT 062 | Soil | 2 | 1.88 | 34 | 0.433 | 1 | 3.52 | 0.006 | 0.09 | <0.1 | 0.05 | 5.5 | <0.1 | <0.05 | 17 | <0.5 | <0.2 | | | | |
| JT 063 | Soil | 38 | 0.38 | 96 | 0.130 | 2 | 3.13 | 0.005 | 0.03 | <0.1 | 0.16 | 4.9 | 0.1 | <0.05 | 12 | <0.5 | <0.2 | | | | |
| JT 064 | Soil | 7 | 0.13 | 28 | 0.160 | <1 | 0.94 | 0.005 | 0.01 | <0.1 | 0.08 | 3.6 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | | | | |
| JT 065 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| JT 066 | Soil | 139 | 1.90 | 39 | 0.239 | 3 | 4.76 | 0.006 | 0.03 | <0.1 | 0.08 | 12.2 | <0.1 | <0.05 | 15 | 0.5 | <0.2 | | | | |
| JT 067 | Soil | 109 | 0.63 | 23 | 0.170 | <1 | 2.46 | 0.006 | 0.03 | <0.1 | 0.08 | 8.3 | <0.1 | <0.05 | 15 | <0.5 | <0.2 | | | | |
| JT 068 | Soil | 99 | 2.03 | 53 | 0.218 | 2 | 5.51 | 0.008 | 0.05 | 0.1 | 0.27 | 18.1 | <0.1 | <0.05 | 13 | 0.8 | <0.2 | | | | |
| JT 069 | Soil | 99 | 1.22 | 31 | 0.251 | <1 | 2.59 | 0.006 | 0.03 | <0.1 | 0.10 | 10.6 | <0.1 | <0.05 | 19 | <0.5 | <0.2 | | | | |
| JT 070 | Soil | 55 | 1.08 | 42 | 0.592 | 2 | 4.07 | 0.009 | 0.02 | <0.1 | 0.17 | 8.4 | <0.1 | <0.05 | 16 | 1.0 | 0.4 | | | | |
| JT 071 | Soil | 102 | 1.88 | 25 | 0.565 | 5 | 4.93 | 0.009 | 0.03 | <0.1 | 0.14 | 19.0 | <0.1 | <0.05 | 13 | 0.7 | <0.2 | | | | |
| JT 072 | Soil | 142 | 0.66 | 25 | 0.467 | 2 | 3.18 | 0.006 | 0.02 | 0.1 | 0.12 | 6.9 | <0.1 | <0.05 | 17 | 0.5 | <0.2 | | | | |
| JT 073 | Soil | 81 | 0.84 | 13 | 0.769 | 2 | 5.78 | 0.006 | 0.02 | <0.1 | 0.17 | 13.4 | <0.1 | <0.05 | 15 | 1.3 | <0.2 | | | | |

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Project: None Given
 Report Date: October 04, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | 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 | 2 | 0.01 | 0.001 | 1 | |
| JT 074 | Soil | 0.8 | 53.2 | 6.6 | 38 | <0.1 | 17.9 | 12.1 | 559 | 12.29 | 2.4 | 2.6 | 0.8 | 10 | <0.1 | 0.5 | 0.2 | 451 | 0.38 | 0.106 | 2 |
| JT 075 | Soil | 1.3 | 59.6 | 6.2 | 35 | <0.1 | 13.9 | 9.6 | 564 | 14.60 | 2.1 | 21.3 | 0.9 | 13 | <0.1 | 0.5 | 0.3 | 488 | 0.30 | 0.071 | 2 |
| JT 076 | Soil | 1.6 | 292.4 | 43.8 | 91 | 1.1 | 29.7 | 36.0 | 606 | 9.38 | 21.9 | 101.9 | 0.6 | 17 | 0.8 | 0.6 | 0.3 | 218 | 0.23 | 0.119 | 4 |
| JT 077 | Soil | 2.6 | 213.0 | 39.5 | 434 | 5.3 | 54.8 | 64.5 | 2896 | 8.80 | 40.9 | 14.8 | 0.8 | 22 | 6.2 | 0.6 | 0.2 | 239 | 0.85 | 0.071 | 11 |
| JT 078 | Soil | 0.9 | 228.1 | 9.2 | 83 | 0.6 | 49.0 | 31.4 | 712 | 8.68 | 16.1 | 12.6 | 0.8 | 13 | 0.1 | 0.7 | <0.1 | 255 | 0.19 | 0.092 | 4 |
| JT 079 | Soil | 0.8 | 56.9 | 3.5 | 41 | 0.3 | 15.2 | 11.3 | 414 | 5.91 | 9.5 | 27.9 | 0.8 | 12 | 0.2 | 0.7 | 0.2 | 174 | 0.17 | 0.072 | 4 |
| JT 080 | Soil | 0.9 | 85.8 | 4.5 | 57 | 0.3 | 29.0 | 19.3 | 524 | 7.91 | 21.2 | 8.8 | 0.5 | 13 | 0.1 | 1.1 | <0.1 | 245 | 0.23 | 0.042 | 4 |
| JT 081 | Soil | 0.7 | 70.0 | 4.9 | 48 | 0.4 | 19.5 | 12.5 | 671 | 8.04 | 11.6 | 2.7 | 0.4 | 18 | 0.1 | 0.7 | <0.1 | 347 | 0.24 | 0.066 | 3 |
| JT 082 | Soil | 1.0 | 230.4 | 4.0 | 90 | 0.5 | 56.8 | 34.1 | 1016 | 8.70 | 10.3 | 7.3 | 0.6 | 17 | 0.2 | 0.5 | <0.1 | 295 | 0.22 | 0.066 | 3 |
| JT 083 | Soil | 0.7 | 164.8 | 4.8 | 73 | 0.3 | 45.0 | 23.6 | 530 | 8.74 | 5.2 | 2.8 | 0.4 | 12 | <0.1 | 0.5 | <0.1 | 307 | 0.16 | 0.073 | 2 |
| JT 084 | Soil | 0.5 | 45.1 | 6.9 | 37 | 0.5 | 14.3 | 10.1 | 510 | 6.78 | 1.1 | 10.0 | 0.4 | 21 | 0.1 | 0.7 | 0.1 | 322 | 0.24 | 0.085 | 2 |
| JT 085 | Soil | 1.1 | 245.8 | 2.4 | 85 | 0.6 | 51.4 | 30.4 | 725 | 9.82 | 11.1 | 5.9 | 0.7 | 14 | 0.2 | 0.7 | <0.1 | 314 | 0.16 | 0.095 | 5 |
| JT 086 | Soil | 0.7 | 111.6 | 5.1 | 66 | 0.5 | 32.2 | 22.8 | 993 | 8.15 | 3.6 | 3.3 | 0.6 | 11 | 0.2 | 0.4 | <0.1 | 271 | 0.14 | 0.097 | 4 |
| JT 087 | Soil | 0.9 | 178.3 | 4.0 | 80 | 0.7 | 41.5 | 34.0 | 1130 | 9.56 | 3.1 | 4.3 | 0.5 | 16 | 0.2 | 0.5 | <0.1 | 378 | 0.18 | 0.106 | 5 |
| JT 088 | Soil | 0.7 | 165.5 | 1.9 | 50 | <0.1 | 37.1 | 17.2 | 383 | 7.46 | 5.5 | 1.9 | 1.2 | 10 | <0.1 | 0.5 | <0.1 | 209 | 0.18 | 0.087 | 3 |
| LCYSTD 14 | Rock Pulp | 7.2 | 45.6 | 4.4 | 50 | 0.5 | 33.0 | 13.3 | 483 | 2.89 | 6.2 | 778.5 | 1.3 | 41 | 0.3 | 0.9 | 0.1 | 66 | 0.82 | 0.053 | 6 |
| AP 01 | Soil | 0.4 | 64.7 | 3.1 | 17 | 0.3 | 11.3 | 8.3 | 556 | 0.96 | 1.3 | 2.0 | <0.1 | 37 | 0.2 | 0.3 | <0.1 | 33 | 2.09 | 0.056 | 4 |
| AP 02 | Soil | 1.1 | 424.0 | 4.0 | 46 | 0.8 | 44.7 | 37.0 | 1163 | 5.04 | 17.0 | 55.8 | 0.6 | 32 | 0.3 | 0.6 | 0.4 | 182 | 0.81 | 0.100 | 7 |
| AP 03 | Soil | 1.0 | 204.4 | 5.3 | 43 | 0.6 | 32.1 | 20.8 | 705 | 5.60 | 12.6 | 26.9 | 0.6 | 33 | 0.2 | 0.5 | 0.6 | 191 | 0.75 | 0.087 | 4 |
| AP 04 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| AP 05 | Soil | 20.3 | 664.5 | 6.6 | 52 | 0.7 | 69.0 | 56.1 | 915 | 8.54 | 117.3 | 94.4 | 0.5 | 53 | 0.3 | 1.2 | 1.4 | 232 | 1.51 | 0.068 | 5 |
| AP 06 | Soil | 0.3 | 279.6 | 3.1 | 52 | 0.4 | 63.4 | 40.9 | 1077 | 5.48 | 7.2 | 17.5 | 0.2 | 80 | 0.2 | 0.4 | 0.1 | 183 | 2.47 | 0.043 | 2 |
| AP 07 | Soil | 1.0 | 284.5 | 65.4 | 45 | 0.6 | 58.0 | 35.1 | 859 | 5.63 | 18.3 | 33.5 | 0.4 | 50 | 0.2 | 0.4 | 0.6 | 203 | 1.79 | 0.075 | 3 |
| AP 08 | Soil | 3.0 | 325.7 | 6.0 | 43 | 0.5 | 51.7 | 34.4 | 895 | 5.45 | 32.7 | 45.6 | 0.3 | 43 | 0.2 | 0.9 | 0.8 | 205 | 1.43 | 0.060 | 3 |
| AP 09 | Soil | 3.5 | 270.1 | 4.7 | 45 | 0.4 | 53.2 | 32.5 | 631 | 6.30 | 34.2 | 32.7 | 0.6 | 57 | 0.2 | 0.5 | 0.7 | 214 | 1.17 | 0.075 | 4 |
| AP 10 | Soil | 23.6 | 631.0 | 5.6 | 53 | 1.0 | 66.7 | 44.1 | 602 | 7.98 | 134.7 | 114.4 | 0.6 | 31 | 0.3 | 1.2 | 2.7 | 202 | 1.16 | 0.079 | 5 |
| AP 11 | Soil | 27.8 | 315.9 | 5.9 | 90 | 0.5 | 60.6 | 48.7 | 1362 | 8.18 | 27.6 | 33.2 | 0.7 | 40 | 0.4 | 2.3 | 0.5 | 260 | 0.93 | 0.077 | 7 |
| AP 12 | Soil | 1.2 | 83.8 | 8.5 | 130 | 0.1 | 46.3 | 18.8 | 332 | 7.09 | 14.0 | 2.6 | 2.0 | 9 | 0.2 | 0.4 | 0.2 | 141 | 0.14 | 0.130 | 5 |
| AP 13 | Soil | 3.5 | 76.7 | 9.9 | 108 | 0.1 | 40.6 | 17.2 | 358 | 8.33 | 19.5 | 9.3 | 3.2 | 13 | <0.1 | 0.8 | 0.5 | 172 | 0.15 | 0.143 | 5 |
| AP 14 | Soil | 1.4 | 105.9 | 4.1 | 76 | 0.3 | 43.1 | 24.9 | 720 | 7.30 | 11.5 | 8.6 | 1.0 | 29 | 0.2 | 1.3 | 0.2 | 213 | 0.43 | 0.097 | 5 |

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Project: None Given
 Report Date: October 04, 2012

Page: 6 of 9

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | Analyte | Unit | MDL | 1DX15 Cr | 1DX15 Mg | 1DX15 Ba | 1DX15 Ti | 1DX15 B | 1DX15 Al | 1DX15 Na | 1DX15 K | 1DX15 W | 1DX15 Hg | 1DX15 Sc | 1DX15 Ti | 1DX15 S | 1DX15 Ga | 1DX15 Se | 1DX15 Te | G6 Au | |
|-----------|-----------|------|-----|----------|----------|----------|----------|---------|----------|----------|---------|---------|----------|----------|----------|---------|----------|----------|----------|--------|--|
| | | | | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | gm/t | |
| | | | | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 1 | 0.5 | 0.2 | 0.005 | | |
| JT 074 | Soil | | | 81 | 0.37 | 10 | 0.716 | 1 | 2.49 | 0.006 | 0.02 | <0.1 | 0.08 | 5.7 | <0.1 | <0.05 | 28 | <0.5 | <0.2 | | |
| JT 075 | Soil | | | 84 | 0.35 | 14 | 0.848 | <1 | 2.55 | 0.005 | 0.02 | <0.1 | 0.07 | 4.9 | <0.1 | <0.05 | 29 | <0.5 | <0.2 | | |
| JT 076 | Soil | | | 71 | 0.97 | 28 | 0.203 | 2 | 6.34 | 0.006 | 0.02 | 0.1 | 0.40 | 16.1 | <0.1 | <0.05 | 11 | 2.8 | 0.4 | | |
| JT 077 | Soil | | | 69 | 0.99 | 36 | 0.334 | 2 | 4.77 | 0.007 | 0.02 | <0.1 | 0.38 | 15.7 | <0.1 | <0.05 | 16 | 3.0 | <0.2 | | |
| JT 078 | Soil | | | 120 | 1.29 | 28 | 0.342 | 3 | 6.16 | 0.008 | 0.02 | <0.1 | 0.20 | 17.8 | <0.1 | <0.05 | 14 | 1.5 | <0.2 | | |
| JT 079 | Soil | | | 56 | 0.75 | 34 | 0.161 | 2 | 4.30 | 0.005 | 0.02 | <0.1 | 0.16 | 8.6 | <0.1 | <0.05 | 10 | 1.1 | <0.2 | | |
| JT 080 | Soil | | | 70 | 1.02 | 60 | 0.168 | 1 | 3.08 | 0.007 | 0.02 | 0.1 | 0.11 | 8.3 | <0.1 | <0.05 | 13 | 0.6 | <0.2 | | |
| JT 081 | Soil | | | 59 | 0.55 | 41 | 0.407 | <1 | 2.42 | 0.008 | 0.02 | <0.1 | 0.14 | 5.3 | <0.1 | <0.05 | 18 | <0.5 | <0.2 | | |
| JT 082 | Soil | | | 96 | 1.41 | 95 | 0.239 | <1 | 5.34 | 0.006 | 0.02 | <0.1 | 0.13 | 11.8 | <0.1 | <0.05 | 16 | 0.6 | <0.2 | | |
| JT 083 | Soil | | | 90 | 1.26 | 59 | 0.255 | <1 | 5.01 | 0.004 | 0.03 | <0.1 | 0.10 | 8.1 | <0.1 | <0.05 | 16 | 0.5 | <0.2 | | |
| JT 084 | Soil | | | 55 | 0.35 | 26 | 0.598 | <1 | 1.96 | 0.005 | 0.01 | <0.1 | 0.08 | 4.0 | <0.1 | <0.05 | 17 | <0.5 | <0.2 | | |
| JT 085 | Soil | | | 88 | 1.31 | 45 | 0.404 | 2 | 7.13 | 0.005 | 0.02 | 0.8 | 0.16 | 15.1 | <0.1 | <0.05 | 16 | 0.8 | <0.2 | | |
| JT 086 | Soil | | | 73 | 0.83 | 33 | 0.230 | 1 | 4.39 | 0.004 | 0.02 | <0.1 | 0.19 | 8.5 | <0.1 | <0.05 | 14 | 0.6 | <0.2 | | |
| JT 087 | Soil | | | 89 | 1.16 | 58 | 0.382 | 1 | 4.28 | 0.006 | 0.02 | <0.1 | 0.22 | 12.9 | <0.1 | <0.05 | 16 | 0.6 | <0.2 | | |
| JT 088 | Soil | | | 107 | 1.03 | 18 | 0.434 | 3 | 7.66 | 0.004 | <0.01 | <0.1 | 0.17 | 20.6 | <0.1 | <0.05 | 11 | 1.0 | <0.2 | | |
| LCYSTD 14 | Rock Pulp | | | 37 | 0.71 | 138 | 0.131 | 3 | 1.45 | 0.120 | 0.14 | 26.5 | 0.05 | 5.3 | <0.1 | <0.05 | 5 | <0.5 | <0.2 | | |
| AP 01 | Soil | | | 17 | 0.14 | 39 | 0.035 | 6 | 1.54 | 0.006 | 0.02 | <0.1 | 0.16 | 2.0 | <0.1 | 0.08 | 2 | 0.8 | <0.2 | | |
| AP 02 | Soil | | | 90 | 0.90 | 28 | 0.167 | 7 | 5.83 | 0.012 | 0.04 | 0.2 | 0.30 | 12.9 | <0.1 | <0.05 | 11 | 1.4 | 0.3 | | |
| AP 03 | Soil | | | 66 | 0.85 | 31 | 0.212 | 3 | 4.42 | 0.013 | 0.03 | 0.1 | 0.24 | 9.0 | <0.1 | <0.05 | 13 | 0.9 | 0.6 | | |
| AP 04 | Soil | | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | |
| AP 05 | Soil | | | 92 | 1.08 | 31 | 0.194 | 6 | 4.20 | 0.010 | 0.02 | 0.3 | 0.29 | 10.5 | <0.1 | <0.05 | 11 | 2.1 | 1.4 | | |
| AP 06 | Soil | | | 102 | 1.82 | 22 | 0.368 | 370 | 3.78 | 0.018 | 0.01 | 0.2 | 0.18 | 8.4 | <0.1 | <0.05 | 10 | 0.6 | <0.2 | | |
| AP 07 | Soil | | | 93 | 1.32 | 18 | 0.378 | 25 | 4.65 | 0.022 | 0.02 | 0.2 | 0.23 | 9.2 | <0.1 | <0.05 | 12 | 1.0 | 0.4 | | |
| AP 08 | Soil | | | 76 | 0.93 | 36 | 0.299 | 5 | 3.02 | 0.018 | 0.03 | <0.1 | 0.27 | 7.3 | <0.1 | <0.05 | 12 | 1.1 | 0.8 | | |
| AP 09 | Soil | | | 90 | 1.03 | 41 | 0.365 | 6 | 4.32 | 0.014 | 0.02 | 0.2 | 0.27 | 7.7 | <0.1 | <0.05 | 14 | 1.4 | 0.6 | | |
| AP 10 | Soil | | | 90 | 0.95 | 28 | 0.226 | 5 | 4.94 | 0.011 | 0.02 | 0.3 | 0.48 | 9.5 | <0.1 | <0.05 | 13 | 2.9 | 2.6 | | |
| AP 11 | Soil | | | 81 | 1.54 | 44 | 0.404 | 4 | 4.11 | 0.013 | 0.03 | 0.2 | 0.34 | 20.0 | <0.1 | <0.05 | 13 | 1.4 | 0.6 | | |
| AP 12 | Soil | | | 91 | 0.80 | 85 | 0.127 | 4 | 5.06 | 0.005 | 0.05 | 0.2 | 0.18 | 10.6 | <0.1 | <0.05 | 10 | 1.1 | <0.2 | | |
| AP 13 | Soil | | | 98 | 0.96 | 70 | 0.237 | 4 | 5.75 | 0.008 | 0.06 | 0.2 | 0.32 | 11.2 | 0.1 | <0.05 | 13 | 1.1 | <0.2 | | |
| AP 14 | Soil | | | 85 | 0.96 | 55 | 0.450 | 3 | 5.48 | 0.015 | 0.02 | 0.2 | 0.27 | 13.0 | <0.1 | <0.05 | 12 | 1.8 | <0.2 | | |

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Project: None Given
 Report Date: October 04, 2012

Page: 7 of 9

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | |
|--------|---------|------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | | | | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | % | % | % | ppm | | |
| | | | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 | |
| AP 15 | Soil | | | 1.3 | 132.4 | 4.8 | 87 | 0.3 | 72.4 | 39.8 | 884 | 7.86 | 9.1 | 19.1 | 1.0 | 40 | 0.3 | 1.6 | 0.1 | 236 | 0.93 | 0.068 | 6 |
| AP 16 | Soil | | | 1.3 | 351.1 | 19.9 | 213 | 0.7 | 27.0 | 29.6 | 486 | 10.61 | 12.8 | 16.0 | 1.0 | 12 | 0.6 | 0.9 | 0.2 | 243 | 0.15 | 0.172 | 4 |
| AP 17 | Soil | | | 1.0 | 179.2 | 29.1 | 63 | 0.8 | 33.4 | 20.6 | 616 | 7.78 | 5.3 | 14.2 | 1.0 | 31 | 0.1 | 0.6 | 0.2 | 254 | 0.31 | 0.113 | 5 |
| AP 18 | Soil | | | 1.3 | 245.9 | 9.8 | 112 | 0.5 | 42.8 | 53.8 | 1440 | 11.48 | 4.5 | 87.6 | 1.4 | 14 | 0.2 | 0.4 | 0.2 | 261 | 0.12 | 0.235 | 4 |
| AP 19 | Soil | | | 0.6 | 29.3 | 7.9 | 26 | 0.1 | 10.4 | 9.7 | 367 | 5.30 | 1.1 | 3.8 | 0.5 | 18 | <0.1 | 0.4 | 0.1 | 202 | 0.16 | 0.070 | 4 |
| AP 20 | Soil | | | 1.0 | 47.3 | 10.8 | 53 | 0.1 | 13.8 | 14.9 | 607 | 9.35 | 2.0 | 8.9 | 0.6 | 15 | 0.1 | 0.7 | 0.1 | 377 | 0.26 | 0.066 | 3 |
| AP 21 | Soil | | | 0.5 | 59.9 | 5.5 | 50 | 0.2 | 17.5 | 9.8 | 251 | 7.58 | 2.0 | 21.1 | 0.9 | 31 | <0.1 | 0.6 | <0.1 | 284 | 0.25 | 0.056 | 5 |
| AP 22 | Soil | | | 0.6 | 58.2 | 5.5 | 48 | 0.2 | 16.4 | 9.2 | 237 | 8.01 | 2.0 | 13.0 | 0.9 | 31 | 0.1 | 0.6 | <0.1 | 280 | 0.23 | 0.063 | 5 |
| AP 23 | Soil | | | 2.4 | 115.0 | 6.1 | 41 | 0.1 | 19.3 | 10.4 | 292 | 14.13 | 6.1 | 10.9 | 1.2 | 18 | <0.1 | 1.0 | 0.1 | 344 | 0.17 | 0.126 | 3 |
| AP 24 | Soil | | | 0.5 | 39.0 | 5.7 | 30 | 0.1 | 14.9 | 9.7 | 232 | 6.84 | 2.4 | 14.6 | 0.7 | 31 | <0.1 | 0.6 | <0.1 | 252 | 0.27 | 0.060 | 4 |
| AP 25 | Soil | | | 1.2 | 158.2 | 5.8 | 59 | <0.1 | 41.7 | 19.5 | 495 | 8.22 | 6.1 | 18.7 | 1.5 | 30 | 0.1 | 0.7 | <0.1 | 233 | 0.31 | 0.089 | 4 |
| AP 26 | Soil | | | 0.6 | 55.4 | 6.6 | 36 | 0.2 | 19.6 | 10.0 | 301 | 6.56 | 2.7 | 15.4 | 0.7 | 30 | <0.1 | 0.7 | <0.1 | 259 | 0.33 | 0.074 | 4 |
| AP 27 | Soil | | | 0.8 | 122.3 | 4.4 | 53 | <0.1 | 29.8 | 15.3 | 439 | 6.22 | 5.7 | 10.2 | 1.1 | 33 | <0.1 | 0.7 | <0.1 | 214 | 0.31 | 0.094 | 6 |
| AP 28 | Soil | | | 0.8 | 103.4 | 4.8 | 56 | <0.1 | 29.7 | 14.7 | 357 | 6.90 | 6.1 | 10.6 | 1.1 | 34 | 0.1 | 0.7 | <0.1 | 234 | 0.31 | 0.110 | 5 |
| AP 29 | Soil | | | 0.7 | 68.8 | 4.5 | 46 | 0.2 | 23.0 | 12.2 | 270 | 6.01 | 5.3 | 9.9 | 0.8 | 31 | 0.2 | 0.8 | <0.1 | 202 | 0.27 | 0.114 | 5 |
| AP 30 | Soil | | | 0.8 | 94.8 | 5.5 | 49 | 0.1 | 28.4 | 14.0 | 398 | 6.27 | 5.7 | 12.8 | 1.1 | 28 | 0.1 | 0.7 | <0.1 | 192 | 0.29 | 0.117 | 5 |
| AP 31 | Soil | | | 2.4 | 158.1 | 5.1 | 99 | 0.5 | 48.8 | 35.3 | 748 | 10.24 | 27.3 | 8.0 | 1.0 | 9 | 0.2 | 1.4 | <0.1 | 304 | 0.22 | 0.082 | 5 |
| AP 32 | Soil | | | 1.7 | 268.7 | 5.9 | 110 | 0.9 | 55.7 | 52.1 | 1200 | 10.75 | 35.7 | 4.3 | 1.0 | 8 | 0.3 | 3.6 | <0.1 | 295 | 0.14 | 0.101 | 7 |
| AP 33 | Soil | | | 2.2 | 181.2 | 4.8 | 88 | 0.2 | 40.4 | 28.5 | 1069 | 9.01 | 10.8 | 4.3 | 0.9 | 9 | 0.2 | 0.8 | <0.1 | 255 | 0.14 | 0.111 | 7 |
| AP 34 | Soil | | | 0.8 | 117.8 | 4.0 | 65 | 1.2 | 24.1 | 17.5 | 504 | 9.71 | 6.0 | 4.8 | 0.9 | 11 | <0.1 | 0.8 | <0.1 | 263 | 0.12 | 0.088 | 5 |
| AP 35 | Soil | | | 0.8 | 204.4 | 2.6 | 61 | 0.3 | 42.6 | 21.1 | 535 | 7.35 | 4.4 | 7.1 | 0.9 | 11 | <0.1 | 0.5 | <0.1 | 212 | 0.22 | 0.088 | 6 |
| AP 36 | Soil | | | 0.9 | 148.7 | 4.2 | 76 | 0.3 | 37.5 | 30.1 | 884 | 9.90 | 4.5 | 4.6 | 0.8 | 16 | 0.2 | 0.5 | <0.1 | 267 | 0.18 | 0.086 | 5 |
| AP 37 | Soil | | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| AP 38 | Soil | | | 0.6 | 258.8 | 2.4 | 88 | 0.5 | 66.7 | 43.0 | 876 | 8.38 | 19.0 | 7.4 | 1.1 | 12 | 0.1 | 0.7 | <0.1 | 220 | 0.23 | 0.095 | 7 |
| AP 39 | Soil | | | 0.9 | 183.3 | 2.4 | 89 | 0.4 | 45.5 | 31.2 | 739 | 10.87 | 74.0 | 13.3 | 1.1 | 9 | 0.1 | 1.2 | <0.1 | 279 | 0.12 | 0.093 | 4 |
| AP 40 | Soil | | | 1.0 | 186.6 | 3.5 | 85 | 0.3 | 53.8 | 27.1 | 590 | 10.30 | 27.0 | 8.5 | 1.2 | 15 | 0.1 | 0.9 | <0.1 | 312 | 0.18 | 0.065 | 5 |
| AP 41 | Soil | | | 1.2 | 148.7 | 2.7 | 48 | 0.6 | 23.0 | 13.5 | 413 | 9.94 | 5.5 | 14.8 | 0.9 | 10 | 0.2 | 0.7 | <0.1 | 262 | 0.16 | 0.087 | 6 |
| AP 42 | Soil | | | 0.8 | 138.5 | 4.2 | 61 | 0.3 | 31.6 | 23.4 | 756 | 11.77 | 6.2 | 5.3 | 0.9 | 33 | 0.1 | 0.9 | <0.1 | 383 | 0.18 | 0.107 | 4 |
| AP 43 | Soil | | | 0.8 | 258.0 | 2.4 | 74 | 0.7 | 57.3 | 49.0 | 2159 | 7.48 | 15.3 | 24.3 | 0.7 | 16 | 0.2 | 0.8 | <0.1 | 213 | 0.33 | 0.081 | 6 |
| AP 44 | Soil | | | 0.8 | 213.3 | 4.0 | 90 | 0.6 | 46.5 | 39.6 | 3549 | 8.24 | 20.6 | 6.5 | 0.3 | 30 | 0.3 | 1.2 | <0.1 | 218 | 1.19 | 0.110 | 10 |

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Project: None Given
 Report Date: October 04, 2012

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Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | G6 |
|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| | | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te | Au |
| Unit | | ppm | % | ppm | % | ppm | % | % | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | gm/t |
| MDL | | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 1 | 0.5 | 0.2 | 0.005 | |
| AP 15 | Soil | 102 | 1.59 | 65 | 0.538 | 6 | 5.28 | 0.014 | 0.02 | 0.2 | 0.19 | 14.0 | <0.1 | <0.05 | 12 | 2.1 | <0.2 | |
| AP 16 | Soil | 78 | 0.56 | 20 | 0.296 | 2 | 6.07 | 0.009 | 0.02 | 0.1 | 0.19 | 13.3 | <0.1 | <0.05 | 15 | 1.7 | 0.7 | |
| AP 17 | Soil | 84 | 1.04 | 27 | 0.458 | 3 | 4.90 | 0.013 | 0.03 | <0.1 | 0.17 | 11.7 | <0.1 | <0.05 | 14 | 0.9 | <0.2 | |
| AP 18 | Soil | 57 | 1.40 | 30 | 0.538 | 3 | 5.29 | 0.008 | 0.03 | 0.1 | 0.29 | 7.3 | <0.1 | <0.05 | 18 | 1.1 | <0.2 | |
| AP 19 | Soil | 28 | 0.33 | 15 | 0.418 | 2 | 1.58 | 0.009 | 0.03 | <0.1 | 0.12 | 3.1 | <0.1 | <0.05 | 12 | <0.5 | <0.2 | |
| AP 20 | Soil | 38 | 0.54 | 20 | 0.635 | 1 | 1.89 | 0.010 | 0.02 | <0.1 | 0.10 | 5.2 | <0.1 | <0.05 | 21 | <0.5 | <0.2 | |
| AP 21 | Soil | 73 | 0.45 | 14 | 0.612 | 2 | 3.12 | 0.011 | 0.02 | <0.1 | 0.07 | 9.2 | <0.1 | <0.05 | 16 | <0.5 | <0.2 | |
| AP 22 | Soil | 73 | 0.46 | 13 | 0.612 | 2 | 3.24 | 0.012 | 0.01 | <0.1 | 0.07 | 8.8 | <0.1 | <0.05 | 17 | <0.5 | <0.2 | |
| AP 23 | Soil | 101 | 0.64 | 18 | 0.567 | 3 | 4.26 | 0.008 | 0.03 | <0.1 | 0.12 | 7.1 | <0.1 | <0.05 | 24 | 0.7 | <0.2 | |
| AP 24 | Soil | 55 | 0.53 | 20 | 0.459 | 2 | 2.08 | 0.011 | 0.02 | <0.1 | 0.04 | 5.5 | <0.1 | <0.05 | 15 | <0.5 | <0.2 | |
| AP 25 | Soil | 107 | 1.46 | 28 | 0.445 | 3 | 5.17 | 0.012 | 0.04 | 0.1 | 0.14 | 10.3 | <0.1 | <0.05 | 14 | 1.3 | <0.2 | |
| AP 26 | Soil | 61 | 0.67 | 24 | 0.449 | 2 | 2.12 | 0.013 | 0.03 | <0.1 | 0.09 | 5.6 | <0.1 | <0.05 | 17 | <0.5 | <0.2 | |
| AP 27 | Soil | 82 | 0.99 | 38 | 0.362 | 2 | 3.85 | 0.013 | 0.03 | <0.1 | 0.17 | 12.2 | <0.1 | <0.05 | 12 | 0.8 | <0.2 | |
| AP 28 | Soil | 89 | 1.01 | 29 | 0.384 | 2 | 4.15 | 0.013 | 0.03 | <0.1 | 0.17 | 11.0 | <0.1 | <0.05 | 14 | 0.9 | <0.2 | |
| AP 29 | Soil | 73 | 0.90 | 28 | 0.301 | 3 | 3.31 | 0.011 | 0.03 | <0.1 | 0.11 | 6.7 | <0.1 | <0.05 | 12 | 0.5 | <0.2 | |
| AP 30 | Soil | 82 | 1.07 | 30 | 0.288 | 2 | 4.05 | 0.010 | 0.03 | <0.1 | 0.09 | 8.3 | <0.1 | <0.05 | 13 | 0.9 | <0.2 | |
| AP 31 | Soil | 144 | 1.15 | 44 | 0.409 | 3 | 6.53 | 0.009 | 0.03 | <0.1 | 0.23 | 22.4 | <0.1 | <0.05 | 17 | 2.0 | <0.2 | |
| AP 32 | Soil | 129 | 1.18 | 111 | 0.185 | 3 | 6.29 | 0.009 | 0.04 | 0.1 | 0.19 | 25.9 | <0.1 | <0.05 | 15 | 1.7 | <0.2 | |
| AP 33 | Soil | 104 | 1.04 | 54 | 0.182 | 1 | 5.77 | 0.009 | 0.04 | <0.1 | 0.17 | 18.6 | <0.1 | <0.05 | 14 | 1.5 | <0.2 | |
| AP 34 | Soil | 91 | 0.52 | 34 | 0.161 | 1 | 5.62 | 0.008 | 0.03 | <0.1 | 0.25 | 12.0 | <0.1 | <0.05 | 16 | 1.3 | <0.2 | |
| AP 35 | Soil | 99 | 1.13 | 24 | 0.337 | 3 | 7.02 | 0.009 | 0.02 | <0.1 | 0.25 | 19.4 | <0.1 | <0.05 | 12 | 1.7 | <0.2 | |
| AP 36 | Soil | 88 | 1.02 | 45 | 0.348 | 3 | 5.09 | 0.007 | 0.03 | <0.1 | 0.24 | 11.9 | <0.1 | <0.05 | 17 | 1.3 | <0.2 | |
| AP 37 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | |
| AP 38 | Soil | 133 | 1.69 | 35 | 0.263 | 4 | 7.01 | 0.008 | 0.03 | <0.1 | 0.19 | 25.7 | <0.1 | <0.05 | 14 | 1.9 | <0.2 | |
| AP 39 | Soil | 113 | 0.96 | 65 | 0.091 | 2 | 7.37 | 0.009 | 0.04 | <0.1 | 0.16 | 17.0 | <0.1 | 0.10 | 18 | 1.6 | <0.2 | |
| AP 40 | Soil | 126 | 1.22 | 33 | 0.484 | 3 | 6.91 | 0.009 | 0.02 | <0.1 | 0.24 | 21.8 | <0.1 | <0.05 | 17 | 1.8 | <0.2 | |
| AP 41 | Soil | 92 | 0.66 | 14 | 0.378 | 2 | 6.07 | 0.006 | 0.02 | <0.1 | 0.31 | 19.1 | <0.1 | <0.05 | 14 | 2.7 | <0.2 | |
| AP 42 | Soil | 89 | 1.01 | 29 | 0.518 | 2 | 5.27 | 0.004 | 0.03 | <0.1 | 0.21 | 12.5 | <0.1 | <0.05 | 19 | 1.0 | <0.2 | |
| AP 43 | Soil | 98 | 1.62 | 36 | 0.165 | 4 | 6.17 | 0.008 | 0.03 | <0.1 | 0.27 | 22.7 | <0.1 | 0.06 | 11 | 1.7 | <0.2 | |
| AP 44 | Soil | 108 | 1.59 | 57 | 0.131 | 4 | 4.61 | 0.012 | 0.03 | <0.1 | 0.25 | 22.4 | <0.1 | 0.09 | 14 | 1.6 | <0.2 | |

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Project: None Given
 Report Date: October 04, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | Au ppb | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | |
| AP 45 Soil | 1.1 | 263.6 | 7.5 | 79 | 0.3 | 57.1 | 42.9 | 1942 | 7.35 | 36.0 | 31.4 | 0.4 | 26 | 0.2 | 0.8 | <0.1 | 200 | 0.94 | 0.066 | 5 | |
| LCYSTD 15 Rock Pulp | 33.0 | 7599 | 4956 | >10000 | 78.2 | 41.0 | 52.7 | 545 | 5.10 | 55.0 | 640.5 | 4.6 | 40 | 71.1 | 82.8 | 11.6 | 63 | 0.85 | 0.051 | 11 | |
| RP 01 Soil | 1.3 | 18.4 | 12.9 | 40 | 0.1 | 20.5 | 6.7 | 262 | 5.10 | 2.8 | 5.4 | 0.8 | 27 | <0.1 | 0.7 | <0.1 | 146 | 0.26 | 0.070 | 4 | |
| RP 02 Soil | 0.8 | 51.7 | 5.4 | 51 | 0.1 | 23.5 | 9.9 | 249 | 4.09 | 5.5 | 1.6 | 1.1 | 12 | <0.1 | 0.8 | <0.1 | 127 | 0.21 | 0.081 | 3 | |
| RP 03 Soil | 0.5 | 22.6 | 6.9 | 38 | 0.2 | 11.7 | 5.8 | 216 | 3.32 | 4.5 | 2.9 | 0.9 | 17 | <0.1 | 0.8 | <0.1 | 107 | 0.24 | 0.082 | 3 | |
| RP 04 Soil | 0.4 | 13.7 | 3.9 | 27 | <0.1 | 10.9 | 5.5 | 264 | 3.32 | 2.7 | 17.4 | 0.4 | 11 | <0.1 | 0.6 | <0.1 | 111 | 0.21 | 0.034 | 3 | |
| RP 05 Soil | 1.1 | 53.3 | 4.7 | 67 | 0.1 | 26.0 | 9.9 | 392 | 4.84 | 8.4 | 3.5 | 0.9 | 10 | 0.1 | 1.3 | <0.1 | 135 | 0.26 | 0.208 | 3 | |
| RP 06 Soil | 0.8 | 42.9 | 5.1 | 46 | <0.1 | 23.2 | 9.1 | 480 | 6.29 | 6.7 | 2.4 | 1.0 | 8 | <0.1 | 0.7 | 0.1 | 200 | 0.29 | 0.106 | 3 | |
| RP 07 Soil | 0.4 | 20.2 | 10.3 | 97 | <0.1 | 10.7 | 9.7 | 3429 | 2.89 | 2.9 | 8.3 | 0.2 | 21 | 0.1 | 0.4 | 0.1 | 57 | 0.50 | 0.180 | 12 | |
| RP 08 Soil | 0.7 | 38.1 | 7.1 | 106 | 0.1 | 23.2 | 11.5 | 1670 | 4.85 | 12.2 | 4.6 | 0.7 | 10 | 0.2 | 0.9 | <0.1 | 143 | 0.37 | 0.107 | 3 | |
| RP 09 Soil | 0.2 | 4.3 | 8.5 | 17 | <0.1 | 2.5 | 2.2 | 174 | 2.30 | 1.8 | 2.0 | 0.3 | 5 | <0.1 | 0.5 | 0.1 | 72 | 0.14 | 0.024 | 3 | |
| RP 10 Soil | 1.1 | 65.1 | 4.6 | 64 | <0.1 | 36.3 | 14.9 | 573 | 5.44 | 12.6 | 54.7 | 0.8 | 10 | <0.1 | 5.1 | <0.1 | 156 | 0.31 | 0.049 | 3 | |
| RP 11 Soil | 0.9 | 26.6 | 11.2 | 45 | <0.1 | 17.0 | 8.3 | 245 | 4.06 | 4.2 | 3.7 | 0.6 | 9 | <0.1 | 0.8 | <0.1 | 156 | 0.19 | 0.030 | 6 | |
| RP 12 Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 13 Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 14 Soil | 1.4 | 52.2 | 7.7 | 74 | <0.1 | 56.8 | 17.3 | 566 | 4.90 | 13.1 | 3.6 | 0.6 | 10 | 0.2 | 1.3 | <0.1 | 125 | 0.34 | 0.054 | 5 | |
| RP 15 Soil | 0.9 | 24.5 | 3.6 | 50 | <0.1 | 24.2 | 9.3 | 347 | 3.84 | 6.5 | 2.2 | 0.5 | 8 | <0.1 | 0.8 | <0.1 | 119 | 0.31 | 0.061 | 2 | |
| RP 16 Soil | 1.0 | 42.3 | 15.0 | 71 | <0.1 | 14.6 | 13.0 | 1286 | 6.17 | 9.0 | 3.9 | 0.5 | 27 | 0.2 | 0.9 | 0.1 | 202 | 0.50 | 0.099 | 4 | |
| RP 17 Soil | 2.3 | 2.8 | 6.9 | 20 | <0.1 | 5.1 | 3.7 | 603 | 2.57 | 1.4 | 0.8 | 0.4 | 21 | 0.1 | 0.4 | <0.1 | 130 | 0.72 | 0.027 | 3 | |
| RP 18 Soil | 0.6 | 29.6 | 5.8 | 54 | <0.1 | 25.8 | 9.6 | 594 | 3.80 | 4.2 | 8.3 | 0.7 | 16 | 0.1 | 0.8 | <0.1 | 103 | 0.34 | 0.076 | 4 | |
| RP 19 Soil | 0.5 | 8.9 | 4.0 | 21 | <0.1 | 18.4 | 4.4 | 100 | 3.56 | 1.4 | 3.3 | 0.4 | 26 | <0.1 | 0.7 | <0.1 | 90 | 0.27 | 0.019 | 3 | |
| RP 20 Soil | 0.6 | 13.3 | 5.3 | 34 | <0.1 | 15.1 | 6.8 | 314 | 3.45 | 2.8 | 3.4 | 0.4 | 14 | <0.1 | 1.3 | <0.1 | 112 | 0.31 | 0.025 | 3 | |
| RP 21 Soil | 0.7 | 48.0 | 4.1 | 64 | <0.1 | 35.8 | 15.1 | 450 | 5.09 | 4.2 | 1.3 | 0.7 | 14 | <0.1 | 0.8 | <0.1 | 136 | 0.30 | 0.049 | 3 | |
| RP 22 Soil | 1.2 | 31.6 | 8.4 | 75 | 0.1 | 37.8 | 20.6 | 1978 | 6.14 | 5.9 | 1.9 | 0.6 | 30 | 0.2 | 0.6 | 0.1 | 161 | 0.41 | 0.133 | 3 | |
| RP 23 Soil | 0.7 | 11.6 | 5.6 | 78 | 0.2 | 18.8 | 10.2 | 639 | 3.50 | 3.4 | 1.0 | 0.4 | 15 | 0.4 | 0.4 | <0.1 | 107 | 0.30 | 0.059 | 4 | |
| RP 24 Soil | 0.3 | 16.2 | 4.6 | 44 | <0.1 | 26.1 | 11.1 | 721 | 3.50 | 2.1 | 1.3 | 0.6 | 16 | <0.1 | 1.5 | <0.1 | 128 | 0.22 | 0.033 | 4 | |
| RP 25 Soil | 0.3 | 15.6 | 5.9 | 36 | 0.1 | 13.0 | 7.2 | 710 | 2.44 | 1.9 | 1.7 | 0.5 | 15 | <0.1 | 0.5 | <0.1 | 65 | 0.30 | 0.056 | 3 | |
| RP 26 Soil | 0.5 | 70.1 | 9.7 | 79 | 0.2 | 73.6 | 25.6 | 1657 | 5.88 | 8.4 | 2.4 | 0.6 | 17 | 0.2 | 9.6 | <0.1 | 157 | 0.68 | 0.066 | 6 | |
| RP 27 Soil | 0.6 | 13.3 | 7.9 | 33 | <0.1 | 7.7 | 4.9 | 527 | 5.34 | 3.5 | 1.2 | 0.7 | 21 | <0.1 | 1.1 | 0.1 | 166 | 0.28 | 0.048 | 3 | |
| RP 28 Soil | 0.8 | 42.0 | 6.1 | 62 | <0.1 | 21.0 | 10.6 | 325 | 4.89 | 5.9 | 1.3 | 0.9 | 13 | <0.1 | 1.0 | 0.1 | 141 | 0.24 | 0.056 | 5 | |

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Project: None Given
 Report Date: October 04, 2012

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Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | G6 | |
|-----------|-----------|------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | 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 | gm/t | |
| | | | | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 1 | 0.5 | 0.2 | 0.005 |
| AP 45 | Soil | | | 70 | 2.11 | 41 | 0.219 | 5 | 3.79 | 0.013 | 0.03 | <0.1 | 0.17 | 16.7 | <0.1 | 0.08 | 12 | <0.5 | <0.2 |
| LCYSTD 15 | Rock Pulp | | | 37 | 1.07 | 62 | 0.144 | 4 | 1.69 | 0.102 | 0.23 | 31.9 | 1.85 | 4.9 | 2.0 | 2.96 | 9 | 3.4 | <0.2 |
| RP 01 | Soil | | | 51 | 0.44 | 24 | 0.292 | <1 | 2.15 | 0.006 | 0.02 | <0.1 | 0.09 | 2.7 | <0.1 | <0.05 | 13 | <0.5 | <0.2 |
| RP 02 | Soil | | | 50 | 0.43 | 42 | 0.180 | 1 | 4.70 | 0.007 | 0.03 | <0.1 | 0.06 | 4.2 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| RP 03 | Soil | | | 33 | 0.30 | 34 | 0.138 | <1 | 2.16 | 0.006 | 0.02 | <0.1 | 0.14 | 3.3 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| RP 04 | Soil | | | 32 | 0.33 | 16 | 0.136 | 1 | 1.67 | 0.005 | 0.01 | <0.1 | 0.16 | 3.1 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| RP 05 | Soil | | | 66 | 0.57 | 37 | 0.162 | 2 | 3.93 | 0.006 | 0.03 | 0.1 | 0.22 | 7.6 | <0.1 | <0.05 | 10 | 0.6 | <0.2 |
| RP 06 | Soil | | | 72 | 0.55 | 23 | 0.273 | 2 | 4.02 | 0.006 | 0.02 | <0.1 | 0.13 | 8.3 | <0.1 | <0.05 | 13 | <0.5 | <0.2 |
| RP 07 | Soil | | | 18 | 0.30 | 164 | 0.023 | 2 | 3.19 | 0.005 | 0.04 | <0.1 | 0.19 | 4.0 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| RP 08 | Soil | | | 46 | 0.51 | 88 | 0.220 | 3 | 2.75 | 0.007 | 0.03 | <0.1 | 0.10 | 5.1 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| RP 09 | Soil | | | 11 | 0.09 | 26 | 0.088 | <1 | 1.07 | 0.005 | 0.01 | <0.1 | 0.03 | 2.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| RP 10 | Soil | | | 49 | 0.68 | 81 | 0.116 | 3 | 3.47 | 0.006 | 0.04 | <0.1 | 0.12 | 6.6 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| RP 11 | Soil | | | 41 | 0.75 | 64 | 0.060 | 1 | 2.60 | 0.005 | 0.03 | <0.1 | 0.08 | 5.7 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| RP 12 | Soil | | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 13 | Soil | | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 14 | Soil | | | 69 | 0.88 | 53 | 0.127 | 2 | 2.79 | 0.006 | 0.02 | <0.1 | 0.13 | 7.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| RP 15 | Soil | | | 44 | 0.42 | 41 | 0.192 | 2 | 2.40 | 0.006 | 0.01 | <0.1 | 0.05 | 3.6 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| RP 16 | Soil | | | 25 | 0.53 | 58 | 0.240 | 2 | 2.26 | 0.006 | 0.04 | <0.1 | 0.09 | 4.1 | <0.1 | <0.05 | 13 | <0.5 | <0.2 |
| RP 17 | Soil | | | 26 | 0.22 | 28 | 0.261 | 3 | 1.22 | 0.006 | 0.01 | <0.1 | 0.03 | 2.5 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| RP 18 | Soil | | | 60 | 0.48 | 48 | 0.101 | <1 | 2.40 | 0.006 | 0.03 | <0.1 | 0.14 | 5.0 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| RP 19 | Soil | | | 78 | 0.37 | 22 | 0.040 | <1 | 1.59 | 0.003 | 0.01 | <0.1 | 0.04 | 3.9 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| RP 20 | Soil | | | 35 | 0.39 | 51 | 0.090 | 1 | 1.57 | 0.005 | 0.02 | <0.1 | 0.05 | 3.2 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| RP 21 | Soil | | | 65 | 0.77 | 64 | 0.130 | 1 | 3.46 | 0.007 | 0.03 | <0.1 | 0.05 | 4.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| RP 22 | Soil | | | 83 | 0.56 | 78 | 0.299 | 2 | 2.79 | 0.007 | 0.02 | <0.1 | 0.06 | 5.7 | <0.1 | <0.05 | 15 | <0.5 | <0.2 |
| RP 23 | Soil | | | 45 | 0.43 | 90 | 0.078 | 2 | 1.61 | 0.006 | 0.02 | <0.1 | 0.08 | 3.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| RP 24 | Soil | | | 69 | 0.45 | 41 | 0.038 | <1 | 1.77 | 0.005 | 0.03 | <0.1 | 0.25 | 8.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| RP 25 | Soil | | | 31 | 0.30 | 40 | 0.087 | 1 | 1.67 | 0.005 | 0.02 | <0.1 | 0.10 | 3.0 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| RP 26 | Soil | | | 182 | 0.86 | 101 | 0.018 | 4 | 2.23 | 0.005 | 0.04 | 0.4 | 1.84 | 21.4 | <0.1 | <0.05 | 6 | 0.5 | <0.2 |
| RP 27 | Soil | | | 30 | 0.33 | 26 | 0.117 | <1 | 2.05 | 0.005 | 0.02 | <0.1 | 0.06 | 4.0 | <0.1 | <0.05 | 13 | <0.5 | <0.2 |
| RP 28 | Soil | | | 45 | 0.51 | 59 | 0.169 | 2 | 3.73 | 0.008 | 0.04 | <0.1 | 0.09 | 5.8 | 0.1 | <0.05 | 12 | <0.5 | <0.2 |

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Project: None Given
 Report Date: October 04, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | 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 | 2 | 0.01 | 0.001 | | |
| RP 29 | Soil | 0.7 | 19.3 | 10.2 | 43 | <0.1 | 11.3 | 4.9 | 237 | 4.91 | 4.7 | 2.5 | 0.7 | 12 | 0.1 | 0.7 | 0.2 | 149 | 0.23 | 0.108 | 3 |
| RP 30 | Soil | 0.5 | 28.2 | 8.3 | 52 | <0.1 | 26.8 | 19.8 | 854 | 5.34 | 2.9 | 6.0 | 0.7 | 24 | 0.1 | 0.6 | <0.1 | 178 | 0.49 | 0.032 | 4 |
| RP 31 | Soil | 0.5 | 11.9 | 8.7 | 23 | 0.1 | 10.9 | 3.8 | 135 | 2.10 | 7.7 | 1.0 | 0.4 | 20 | 0.2 | 0.4 | <0.1 | 71 | 0.36 | 0.030 | 3 |
| RP 32 | Soil | 0.6 | 10.6 | 8.7 | 26 | 0.1 | 11.6 | 4.4 | 159 | 2.37 | 8.9 | 0.5 | 0.4 | 20 | 0.3 | 0.4 | <0.1 | 97 | 0.36 | 0.035 | 3 |
| RP 33 | Soil | 0.6 | 10.4 | 8.8 | 30 | 0.1 | 13.7 | 5.1 | 202 | 2.51 | 9.5 | 0.9 | 0.4 | 22 | 0.3 | 0.4 | <0.1 | 90 | 0.42 | 0.037 | 3 |
| RP 34 | Soil | 0.7 | 10.8 | 9.1 | 37 | 0.1 | 14.5 | 5.6 | 215 | 2.75 | 11.0 | 3.0 | 0.4 | 22 | 0.2 | 0.4 | <0.1 | 100 | 0.40 | 0.040 | 3 |
| RP 35 | Soil | 1.8 | 28.8 | 5.7 | 54 | 0.2 | 22.1 | 9.8 | 1075 | 3.36 | 5.1 | 1.9 | 0.6 | 16 | 1.1 | 0.6 | <0.1 | 103 | 0.49 | 0.035 | 7 |
| RP 36 | Soil | 2.0 | 30.9 | 5.6 | 59 | 0.2 | 23.9 | 10.3 | 1194 | 3.54 | 5.5 | 7.4 | 0.7 | 16 | 1.3 | 0.6 | <0.1 | 106 | 0.48 | 0.037 | 8 |
| RP 37 | Soil | 1.4 | 39.1 | 4.2 | 47 | 0.1 | 31.5 | 12.4 | 379 | 3.67 | 7.2 | 2.3 | 0.8 | 10 | 0.2 | 0.6 | <0.1 | 116 | 0.28 | 0.049 | 3 |
| RP 38 | Soil | 1.0 | 49.7 | 4.5 | 63 | 0.1 | 23.9 | 8.9 | 357 | 4.89 | 8.8 | 2.7 | 0.9 | 12 | 0.1 | 1.2 | <0.1 | 127 | 0.25 | 0.291 | 3 |
| RP 39 | Soil | 0.2 | 4.1 | 4.9 | 14 | <0.1 | 4.0 | 1.9 | 161 | 2.04 | 1.6 | 5.6 | 0.3 | 15 | <0.1 | 0.4 | <0.1 | 92 | 0.24 | 0.024 | 2 |
| RP 40 | Soil | 0.5 | 31.3 | 4.8 | 44 | <0.1 | 17.0 | 7.6 | 1130 | 4.17 | 3.8 | 1.7 | 0.7 | 9 | <0.1 | 0.6 | <0.1 | 129 | 0.24 | 0.083 | 2 |
| RP 41 | Soil | 0.8 | 23.5 | 6.4 | 34 | <0.1 | 9.9 | 3.8 | 175 | 3.39 | 2.9 | 1.8 | 0.7 | 13 | <0.1 | 0.5 | <0.1 | 105 | 0.24 | 0.039 | 3 |
| RP 42 | Soil | 0.3 | 25.5 | 6.4 | 30 | <0.1 | 9.8 | 5.8 | 529 | 4.51 | 2.6 | <0.5 | 0.7 | 15 | <0.1 | 0.5 | 0.3 | 149 | 0.19 | 0.123 | 3 |
| RP 43 | Soil | 0.4 | 25.6 | 5.5 | 42 | <0.1 | 12.2 | 5.7 | 152 | 3.59 | 3.3 | 3.0 | 0.7 | 9 | <0.1 | 0.5 | 0.2 | 120 | 0.20 | 0.036 | 3 |
| RP 44 | Soil | 0.5 | 31.2 | 5.8 | 33 | <0.1 | 9.4 | 4.8 | 168 | 2.61 | 2.9 | 2.1 | 0.5 | 10 | 0.1 | 0.4 | 0.2 | 91 | 0.18 | 0.043 | 3 |
| RP 45 | Soil | 0.5 | 20.4 | 7.4 | 38 | 0.1 | 5.0 | 4.9 | 170 | 2.63 | 3.9 | 4.8 | 0.6 | 5 | <0.1 | 0.4 | 0.2 | 74 | 0.10 | 0.031 | 5 |
| RP 46 | Soil | 0.4 | 23.0 | 15.2 | 32 | 0.1 | 3.7 | 12.0 | 7796 | 1.45 | 2.0 | <0.5 | <0.1 | 28 | 0.2 | 0.3 | 0.2 | 71 | 0.59 | 0.125 | 5 |
| RP 47 | Soil | 0.3 | 8.1 | 7.3 | 22 | <0.1 | 3.3 | 3.1 | 374 | 3.01 | 2.0 | 1.3 | 0.5 | 28 | <0.1 | 0.4 | 0.2 | 131 | 0.34 | 0.028 | 3 |
| LCYSTD 16 | Rock Pulp | 6.9 | 42.7 | 4.5 | 51 | 0.5 | 31.7 | 13.2 | 489 | 3.01 | 6.7 | 619.5 | 1.3 | 41 | 0.2 | 0.9 | 0.2 | 61 | 0.82 | 0.057 | 6 |



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Project: None Given

Report Date: October 04, 2012

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CERTIFICATE OF ANALYSIS

VAN12004383.1

| Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | G6 |
|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te | Au | | |
| Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | gm/t | |
| 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 | 0.005 | | |
| RP 29 | Soil | 41 | 0.30 | 36 | 0.159 | <1 | 2.50 | 0.005 | 0.03 | <0.1 | 0.08 | 3.5 | <0.1 | <0.05 | 12 | <0.5 | <0.2 | | |
| RP 30 | Soil | 68 | 0.53 | 90 | 0.193 | 3 | 4.01 | 0.007 | 0.02 | <0.1 | 0.10 | 6.7 | <0.1 | <0.05 | 13 | <0.5 | <0.2 | | |
| RP 31 | Soil | 37 | 0.17 | 52 | 0.306 | 2 | 0.84 | 0.005 | <0.01 | <0.1 | 0.03 | 3.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 | | |
| RP 32 | Soil | 37 | 0.22 | 50 | 0.312 | 2 | 0.94 | 0.005 | <0.01 | <0.1 | 0.03 | 3.0 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | | |
| RP 33 | Soil | 40 | 0.29 | 53 | 0.310 | 2 | 1.04 | 0.005 | 0.01 | <0.1 | 0.05 | 3.4 | <0.1 | <0.05 | 7 | <0.5 | <0.2 | | |
| RP 34 | Soil | 44 | 0.34 | 48 | 0.324 | 2 | 1.18 | 0.005 | 0.01 | <0.1 | 0.04 | 3.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | | |
| RP 35 | Soil | 42 | 0.43 | 108 | 0.122 | 3 | 2.13 | 0.007 | 0.02 | <0.1 | 0.07 | 5.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | | |
| RP 36 | Soil | 44 | 0.44 | 116 | 0.132 | 4 | 2.21 | 0.007 | 0.02 | <0.1 | 0.07 | 6.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | | |
| RP 37 | Soil | 48 | 0.60 | 45 | 0.169 | 2 | 2.98 | 0.008 | 0.02 | <0.1 | 0.14 | 7.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | | |
| RP 38 | Soil | 66 | 0.51 | 31 | 0.147 | 1 | 3.88 | 0.006 | 0.03 | 0.1 | 0.24 | 6.9 | <0.1 | <0.05 | 10 | 0.6 | <0.2 | | |
| RP 39 | Soil | 14 | 0.20 | 16 | 0.120 | <1 | 0.92 | 0.004 | 0.02 | <0.1 | 0.05 | 2.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | | |
| RP 40 | Soil | 43 | 0.30 | 38 | 0.161 | <1 | 3.23 | 0.006 | 0.02 | <0.1 | 0.11 | 4.0 | <0.1 | <0.05 | 10 | <0.5 | <0.2 | | |
| RP 41 | Soil | 32 | 0.29 | 37 | 0.079 | <1 | 2.16 | 0.006 | 0.02 | <0.1 | 0.07 | 3.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | | |
| RP 42 | Soil | 53 | 0.27 | 19 | 0.128 | 2 | 2.05 | 0.006 | 0.01 | <0.1 | 0.05 | 3.2 | <0.1 | <0.05 | 12 | <0.5 | <0.2 | | |
| RP 43 | Soil | 34 | 0.31 | 33 | 0.123 | 2 | 2.25 | 0.008 | 0.02 | <0.1 | 0.06 | 3.1 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | | |
| RP 44 | Soil | 24 | 0.28 | 33 | 0.079 | 2 | 1.62 | 0.005 | 0.02 | <0.1 | 0.06 | 3.7 | <0.1 | <0.05 | 6 | <0.5 | <0.2 | | |
| RP 45 | Soil | 12 | 0.25 | 43 | 0.015 | 1 | 1.51 | 0.006 | 0.02 | <0.1 | 0.05 | 2.3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 | | |
| RP 46 | Soil | 7 | 0.10 | 177 | 0.039 | 3 | 1.36 | 0.018 | 0.04 | <0.1 | 0.09 | 3.4 | 0.1 | <0.05 | 7 | <0.5 | <0.2 | | |
| RP 47 | Soil | 12 | 0.25 | 24 | 0.090 | 1 | 1.51 | 0.005 | 0.02 | <0.1 | 0.06 | 5.3 | <0.1 | <0.05 | 10 | <0.5 | <0.2 | | |
| LCYSTD 16 | Rock Pulp | 36 | 0.75 | 144 | 0.129 | 5 | 1.47 | 0.122 | 0.15 | 27.8 | 0.05 | 5.3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 | | |



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Project: None Given
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Part: 1 of 1

QUALITY CONTROL REPORT

VAN12004383.1

| 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 | | | | | | | | | | | | | | | | | | | | | |
| LH 01 | Soil | 0.8 | 29.3 | 7.9 | 78 | 0.1 | 26.9 | 12.3 | 552 | 4.60 | 10.3 | 2.7 | 1.1 | 9 | 0.5 | 1.3 | 0.3 | 144 | 0.24 | 0.051 | 4 |
| REP LH 01 | QC | 0.9 | 29.5 | 7.8 | 80 | 0.1 | 27.4 | 12.4 | 551 | 4.59 | 10.2 | 1.9 | 1.0 | 8 | 0.4 | 1.3 | 0.2 | 144 | 0.24 | 0.052 | 4 |
| LH 09 | Soil | 0.8 | 48.7 | 6.0 | 78 | 0.1 | 28.9 | 15.4 | 770 | 4.53 | 9.0 | 1.7 | 0.9 | 11 | 0.1 | 1.2 | 0.1 | 146 | 0.33 | 0.063 | 3 |
| REP LH 09 | QC | 0.7 | 48.3 | 5.7 | 78 | 0.1 | 29.0 | 15.4 | 765 | 4.63 | 9.0 | 9.4 | 0.9 | 11 | 0.1 | 1.3 | <0.1 | 145 | 0.33 | 0.058 | 3 |
| MP 21 | Soil | 0.8 | 57.4 | 3.4 | 55 | 0.2 | 25.1 | 10.6 | 287 | 7.17 | 5.5 | 5.0 | 0.7 | 22 | 0.1 | 0.6 | 0.1 | 325 | 0.27 | 0.066 | 2 |
| REP MP 21 | QC | 0.8 | 56.2 | 3.4 | 53 | 0.2 | 25.1 | 10.7 | 284 | 7.34 | 5.1 | 5.5 | 0.6 | 22 | 0.1 | 0.5 | 0.1 | 322 | 0.27 | 0.064 | 2 |
| JT 001 | Soil | 0.8 | 21.3 | 4.2 | 41 | 0.1 | 20.9 | 7.2 | 315 | 3.50 | 3.7 | 21.0 | 0.5 | 13 | 0.1 | 0.9 | <0.1 | 137 | 0.29 | 0.082 | 3 |
| REP JT 001 | QC | 0.8 | 21.4 | 4.2 | 41 | 0.1 | 21.2 | 7.2 | 312 | 3.45 | 3.8 | 1.1 | 0.5 | 12 | <0.1 | 0.9 | <0.1 | 134 | 0.30 | 0.083 | 3 |
| JT 029 | Soil | 0.9 | 29.5 | 5.2 | 45 | <0.1 | 20.5 | 9.3 | 633 | 4.57 | 3.4 | 2.4 | 0.9 | 15 | 0.1 | 0.8 | 0.1 | 176 | 0.27 | 0.167 | 3 |
| REP JT 029 | QC | 1.0 | 29.3 | 5.3 | 45 | <0.1 | 20.2 | 9.4 | 649 | 4.60 | 3.5 | 8.6 | 0.9 | 14 | 0.1 | 0.8 | <0.1 | 175 | 0.26 | 0.167 | 3 |
| JT 037 | Soil | 1.0 | 39.0 | 6.9 | 62 | <0.1 | 43.8 | 16.5 | 313 | 4.39 | 6.9 | 1.8 | 0.8 | 16 | 0.1 | 1.1 | <0.1 | 159 | 0.30 | 0.067 | 3 |
| REP JT 037 | QC | 1.0 | 39.3 | 6.7 | 63 | <0.1 | 43.3 | 16.3 | 320 | 4.39 | 7.0 | 1.1 | 0.8 | 16 | 0.1 | 1.1 | <0.1 | 157 | 0.31 | 0.066 | 3 |
| JT 064 | Soil | 0.4 | 9.1 | 6.2 | 28 | <0.1 | 2.6 | 11.3 | 1935 | 3.83 | 0.7 | <0.5 | 0.5 | 35 | 0.1 | 0.8 | 0.1 | 110 | 0.26 | 0.041 | 5 |
| REP JT 064 | QC | 0.4 | 9.0 | 6.1 | 28 | <0.1 | 2.3 | 11.3 | 1948 | 3.77 | 0.5 | 1.4 | 0.5 | 35 | <0.1 | 0.8 | 0.1 | 109 | 0.26 | 0.041 | 5 |
| JT 073 | Soil | 0.9 | 133.5 | 2.5 | 51 | 0.1 | 30.3 | 15.7 | 594 | 10.65 | 3.4 | 7.8 | 1.1 | 11 | 0.1 | 0.4 | <0.1 | 332 | 0.24 | 0.109 | 3 |
| REP JT 073 | QC | 0.8 | 134.0 | 2.5 | 51 | 0.1 | 30.2 | 15.7 | 573 | 10.61 | 3.8 | 10.1 | 1.2 | 11 | 0.1 | 0.4 | <0.1 | 337 | 0.24 | 0.110 | 3 |
| AP 34 | Soil | 0.8 | 117.8 | 4.0 | 65 | 1.2 | 24.1 | 17.5 | 504 | 9.71 | 6.0 | 4.8 | 0.9 | 11 | <0.1 | 0.8 | <0.1 | 263 | 0.12 | 0.088 | 5 |
| REP AP 34 | QC | 0.9 | 118.1 | 4.0 | 66 | 1.1 | 25.6 | 18.2 | 510 | 9.82 | 6.3 | 6.3 | 0.9 | 11 | 0.1 | 0.8 | <0.1 | 261 | 0.12 | 0.092 | 5 |
| AP 40 | Soil | 1.0 | 186.6 | 3.5 | 85 | 0.3 | 53.8 | 27.1 | 590 | 10.30 | 27.0 | 8.5 | 1.2 | 15 | 0.1 | 0.9 | <0.1 | 312 | 0.18 | 0.065 | 5 |
| REP AP 40 | QC | 0.9 | 193.1 | 3.6 | 80 | 0.3 | 52.1 | 27.6 | 583 | 10.16 | 25.8 | 18.4 | 1.2 | 15 | <0.1 | 1.1 | <0.1 | 315 | 0.16 | 0.066 | 4 |
| RP 27 | Soil | 0.6 | 13.3 | 7.9 | 33 | <0.1 | 7.7 | 4.9 | 527 | 5.34 | 3.5 | 1.2 | 0.7 | 21 | <0.1 | 1.1 | 0.1 | 166 | 0.28 | 0.048 | 3 |
| REP RP 27 | QC | 0.7 | 13.8 | 8.3 | 34 | <0.1 | 7.8 | 5.0 | 547 | 5.50 | 3.6 | 2.4 | 0.7 | 22 | <0.1 | 1.2 | 0.1 | 170 | 0.29 | 0.049 | 4 |
| RP 32 | Soil | 0.6 | 10.6 | 8.7 | 26 | 0.1 | 11.6 | 4.4 | 159 | 2.37 | 8.9 | 0.5 | 0.4 | 20 | 0.3 | 0.4 | <0.1 | 97 | 0.36 | 0.035 | 3 |
| REP RP 32 | QC | 0.7 | 11.0 | 8.8 | 27 | 0.1 | 11.8 | 4.4 | 161 | 2.40 | 9.2 | 0.9 | 0.4 | 19 | 0.3 | 0.4 | <0.1 | 91 | 0.36 | 0.037 | 3 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 13.1 | 110.4 | 118.5 | 304 | 1.8 | 41.3 | 7.7 | 594 | 2.33 | 24.5 | 118.0 | 6.1 | 66 | 2.2 | 5.6 | 6.0 | 42 | 0.69 | 0.079 | 13 |
| STD DS9 | Standard | 13.6 | 92.5 | 124.3 | 297 | 1.9 | 41.4 | 7.9 | 590 | 2.34 | 21.8 | 133.9 | 6.1 | 74 | 2.1 | 5.2 | 5.8 | 45 | 0.74 | 0.071 | 13 |
| STD DS9 | Standard | 14.5 | 93.9 | 124.4 | 303 | 1.9 | 41.8 | 6.7 | 608 | 2.43 | 21.6 | 120.8 | 6.0 | 74 | 2.1 | 5.1 | 6.0 | 35 | 0.79 | 0.074 | 14 |



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Project: None Given
 Report Date: October 04, 2012

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QUALITY CONTROL REPORT

VAN12004383.1

| Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | G6 |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te | Au | |
| Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | gm/t | |
| 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 | 0.005 | |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | |
| LH 01 | Soil | 53 | 0.35 | 40 | 0.213 | 3 | 2.72 | 0.008 | 0.02 | 0.1 | 0.11 | 5.8 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| REP LH 01 | QC | 54 | 0.35 | 39 | 0.210 | 2 | 2.71 | 0.008 | 0.02 | <0.1 | 0.10 | 5.5 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| LH 09 | Soil | 45 | 0.59 | 92 | 0.232 | 2 | 3.19 | 0.008 | 0.03 | 0.1 | 0.12 | 5.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| REP LH 09 | QC | 44 | 0.58 | 89 | 0.231 | 2 | 3.14 | 0.010 | 0.03 | <0.1 | 0.13 | 5.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| MP 21 | Soil | 81 | 0.74 | 18 | 0.607 | 3 | 3.70 | 0.012 | <0.01 | 0.1 | 0.15 | 6.4 | <0.1 | <0.05 | 14 | <0.5 | <0.2 | |
| REP MP 21 | QC | 82 | 0.76 | 18 | 0.611 | 3 | 3.71 | 0.012 | <0.01 | <0.1 | 0.14 | 6.5 | <0.1 | <0.05 | 14 | <0.5 | <0.2 | |
| JT 001 | Soil | 38 | 0.45 | 40 | 0.119 | 1 | 2.26 | 0.005 | 0.02 | <0.1 | 0.15 | 3.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| REP JT 001 | QC | 38 | 0.45 | 40 | 0.117 | 1 | 2.25 | 0.005 | 0.01 | <0.1 | 0.15 | 3.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| JT 029 | Soil | 62 | 0.43 | 48 | 0.207 | 2 | 3.14 | 0.005 | 0.03 | 0.1 | 0.16 | 4.3 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| REP JT 029 | QC | 61 | 0.43 | 48 | 0.211 | 2 | 3.18 | 0.005 | 0.02 | 0.1 | 0.16 | 4.5 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| JT 037 | Soil | 64 | 0.80 | 58 | 0.256 | 2 | 3.15 | 0.006 | 0.03 | <0.1 | 0.10 | 6.0 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| REP JT 037 | QC | 64 | 0.79 | 60 | 0.256 | 3 | 3.12 | 0.006 | 0.03 | <0.1 | 0.12 | 5.9 | <0.1 | <0.05 | 10 | <0.5 | <0.2 | |
| JT 064 | Soil | 7 | 0.13 | 28 | 0.160 | <1 | 0.94 | 0.005 | 0.01 | <0.1 | 0.08 | 3.6 | <0.1 | <0.05 | 9 | <0.5 | <0.2 | |
| REP JT 064 | QC | 7 | 0.13 | 28 | 0.163 | <1 | 0.90 | 0.005 | 0.01 | <0.1 | 0.07 | 3.6 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| JT 073 | Soil | 81 | 0.84 | 13 | 0.769 | 2 | 5.78 | 0.006 | 0.02 | <0.1 | 0.17 | 13.4 | <0.1 | <0.05 | 15 | 1.3 | <0.2 | |
| REP JT 073 | QC | 84 | 0.85 | 13 | 0.776 | 2 | 5.95 | 0.005 | 0.02 | <0.1 | 0.16 | 13.5 | <0.1 | <0.05 | 16 | 1.7 | <0.2 | |
| AP 34 | Soil | 91 | 0.52 | 34 | 0.161 | 1 | 5.62 | 0.008 | 0.03 | <0.1 | 0.25 | 12.0 | <0.1 | <0.05 | 16 | 1.3 | <0.2 | |
| REP AP 34 | QC | 88 | 0.51 | 35 | 0.161 | 2 | 5.61 | 0.009 | 0.03 | <0.1 | 0.24 | 12.3 | <0.1 | <0.05 | 16 | 1.6 | <0.2 | |
| AP 40 | Soil | 126 | 1.22 | 33 | 0.484 | 3 | 6.91 | 0.009 | 0.02 | <0.1 | 0.24 | 21.8 | <0.1 | <0.05 | 17 | 1.8 | <0.2 | |
| REP AP 40 | QC | 133 | 1.22 | 33 | 0.480 | 4 | 6.75 | 0.009 | 0.02 | <0.1 | 0.24 | 21.5 | <0.1 | <0.05 | 17 | 1.8 | <0.2 | |
| RP 27 | Soil | 30 | 0.33 | 26 | 0.117 | <1 | 2.05 | 0.005 | 0.02 | <0.1 | 0.06 | 4.0 | <0.1 | <0.05 | 13 | <0.5 | <0.2 | |
| REP RP 27 | QC | 32 | 0.34 | 27 | 0.120 | <1 | 2.10 | 0.006 | 0.02 | <0.1 | 0.07 | 4.2 | <0.1 | <0.05 | 13 | <0.5 | <0.2 | |
| RP 32 | Soil | 37 | 0.22 | 50 | 0.312 | 2 | 0.94 | 0.005 | <0.01 | <0.1 | 0.03 | 3.0 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| REP RP 32 | QC | 38 | 0.23 | 51 | 0.322 | 2 | 0.96 | 0.005 | 0.01 | <0.1 | 0.04 | 3.1 | <0.1 | <0.05 | 8 | <0.5 | <0.2 | |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 130 | 0.61 | 295 | 0.113 | 2 | 0.89 | 0.081 | 0.37 | 2.9 | 0.19 | 2.5 | 5.4 | 0.10 | 4 | 5.6 | 5.4 | |
| STD DS9 | Standard | 124 | 0.63 | 308 | 0.102 | 3 | 0.96 | 0.085 | 0.39 | 2.9 | 0.22 | 2.6 | 5.5 | 0.07 | 5 | 5.3 | 5.2 | |
| STD DS9 | Standard | 116 | 0.65 | 276 | 0.104 | 3 | 0.97 | 0.088 | 0.41 | 3.3 | 0.23 | 2.7 | 5.8 | 0.11 | 5 | 6.0 | 5.2 | |



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Project: None Given
 Report Date: October 04, 2012

Page: 2 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

VAN12004383.1

| | | 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 |
|--------------------|----------|---------------------------|---------------------------|---------------------------|-------------------------|---------------------------|---------------------------|---------------------------|-------------------------|--------------------------|---------------------------|---------------------------|---------------------------|-------------------------|---------------------------|---------------------------|---------------------------|------------------------|--------------------------|--------------------------|-------------------------|
| STD DS9 | Standard | 14.3 | 93.7 | 122.7 | 299 | 1.9 | 41.4 | 6.2 | 606 | 2.38 | 21.4 | 118.9 | 5.8 | 72 | 2.0 | 4.8 | 5.8 | 44 | 0.75 | 0.070 | 13 |
| STD DS9 | Standard | 12.4 | 112.3 | 127.3 | 312 | 1.8 | 41.0 | 7.9 | 585 | 2.38 | 26.3 | 118.8 | 6.7 | 75 | 2.3 | 6.6 | 7.0 | 42 | 0.72 | 0.081 | 12 |
| STD DS9 | Standard | 12.4 | 103.2 | 120.4 | 302 | 1.8 | 39.2 | 7.3 | 577 | 2.30 | 25.0 | 113.5 | 6.3 | 67 | 2.4 | 5.6 | 6.3 | 40 | 0.72 | 0.086 | 12 |
| STD DS9 | Standard | 13.2 | 119.3 | 135.9 | 324 | 1.9 | 42.0 | 7.8 | 611 | 2.47 | 25.8 | 127.7 | 8.0 | 83 | 2.4 | 6.5 | 6.7 | 40 | 0.78 | 0.089 | 16 |
| STD OXG99 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OXK94 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OXK94 | Standard | | | | | | | | | | | | | | | | | | | | |
| 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 |
| STD OXG99 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD OXK94 Expected | | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.1 | 0.5 | <0.1 | <1 | <0.1 | 0.1 | <0.1 | <1 | 0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | 0.2 | <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 | 0.02 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |



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Project: None Given
 Report Date: October 04, 2012

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QUALITY CONTROL REPORT

VAN12004383.1

| | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | G6 |
|--------------------|----------|-------|--------|-------|--------|-------|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|
| | | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te | Au |
| | | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | gm/t |
| | | 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 | 0.005 |
| STD DS9 | Standard | 127 | 0.65 | 263 | 0.099 | 2 | 0.95 | 0.089 | 0.39 | 3.2 | 0.21 | 2.6 | 5.6 | 0.10 | 5 | 5.1 | 5.4 | |
| STD DS9 | Standard | 123 | 0.67 | 299 | 0.114 | 3 | 0.93 | 0.095 | 0.41 | 3.2 | 0.24 | 2.8 | 5.6 | 0.13 | 5 | 5.2 | 4.7 | |
| STD DS9 | Standard | 120 | 0.64 | 302 | 0.111 | 3 | 0.93 | 0.089 | 0.41 | 3.1 | 0.20 | 2.7 | 5.4 | 0.12 | 5 | 5.0 | 5.1 | |
| STD DS9 | Standard | 118 | 0.66 | 320 | 0.132 | 3 | 1.02 | 0.092 | 0.45 | 3.2 | 0.20 | 2.6 | 5.4 | 0.21 | 5 | 5.0 | 5.2 | |
| STD OXG99 | Standard | | | | | | | | | | | | | | | | | 0.972 |
| STD OXK94 | Standard | | | | | | | | | | | | | | | | | 3.736 |
| STD OXK94 | Standard | | | | | | | | | | | | | | | | | 3.745 |
| 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 | |
| STD OXG99 Expected | | | | | | | | | | | | | | | | | | 0.932 |
| STD OXK94 Expected | | | | | | | | | | | | | | | | | | 3.562 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 | |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 | |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 | |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 | |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 | |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 | |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 | |
| BLK | Blank | | | | | | | | | | | | | | | | | <0.005 |
| BLK | Blank | | | | | | | | | | | | | | | | | <0.005 |
| BLK | Blank | | | | | | | | | | | | | | | | | <0.005 |



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Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Mammoth Geological Ltd.

2446 Bidston Road
Mill Bay BC V0R 2P4 Canada

Submitted By: Tim Henneberry

Receiving Lab: Canada-Vancouver

Received: September 14, 2012

Report Date: October 08, 2012

Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN12004384.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 1

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|-------------|-------------------|---|--------------|---------------|-----|
| R200-250 | 1 | Crush, split and pulverize 250 g rock to 200 mesh | | | VAN |
| 1DX2 | 1 | 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

ADDITIONAL COMMENTS

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

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

CC:



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



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

Project: None Given
Report Date: October 08, 2012

Page: 2 of 2

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004384.1

| Method | WGHT | 1DX15 | 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 | |
| G1 | Prep Blank | <0.01 | <0.1 | 1.9 | 2.3 | 46 | <0.1 | 4.4 | 4.2 | 542 | 1.81 | <0.5 | 3.5 | 4.2 | 50 | <0.1 | <0.1 | <0.1 | 34 | 0.41 | 0.080 |
| RP-RS-01 | Rock | 3.14 | 0.1 | 1.7 | 0.9 | 30 | <0.1 | 1.8 | 1.2 | 237 | 1.35 | 0.8 | 3.3 | 0.5 | 43 | <0.1 | 0.1 | <0.1 | 7 | 0.25 | 0.023 |



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Mill Bay BC V0R 2P4 Canada

Project: None Given

Report Date: October 08, 2012

Page: 2 of 2

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004384.1

| 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 | |
| G1 | Prep Blank | 8 | 7 | 0.54 | 216 | 0.099 | 2 | 0.85 | 0.057 | 0.46 | <0.1 | <0.01 | 1.8 | 0.3 | <0.05 | 4 | <0.5 | <0.2 |
| RP-RS-01 | Rock | 2 | 5 | 0.54 | 16 | 0.076 | 2 | 0.79 | 0.012 | 0.05 | <0.1 | <0.01 | 1.3 | <0.1 | <0.05 | 2 | <0.5 | <0.2 |



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Project: None Given

Report Date: October 08, 2012

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

VAN12004384.1

| 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 | |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 13.0 | 109.3 | 125.2 | 301 | 1.9 | 39.6 | 8.0 | 583 | 2.32 | 26.7 | 109.2 | 6.6 | 68 | 2.6 | 5.9 | 6.5 | 41 | 0.72 | 0.078 | |
| 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 | 0.5 | <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 | 46 | <0.1 | 4.4 | 4.2 | 542 | 1.81 | <0.5 | 3.5 | 4.2 | 50 | <0.1 | <0.1 | <0.1 | 34 | 0.41 | 0.080 |



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Mill Bay BC V0R 2P4 Canada

Project: None Given

Report Date: October 08, 2012

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

VAN12004384.1

| 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 | |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 13 | 121 | 0.61 | 292 | 0.111 | 2 | 0.94 | 0.085 | 0.39 | 2.9 | 0.24 | 2.5 | 5.2 | 0.16 | 5 | 5.1 | 5.0 |
| 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 |
| Prep Wash | | | | | | | | | | | | | | | | | | |
| G1 | Prep Blank | 8 | 7 | 0.54 | 216 | 0.099 | 2 | 0.85 | 0.057 | 0.46 | <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: September 14, 2012
Report Date: October 03, 2012
Page: 1 of 8

CERTIFICATE OF ANALYSIS

VAN12004385.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 183

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.

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

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include Dry at 60C, SS80, and 1DX2.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. 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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 Mill Bay BC V0R 2P4 Canada

Project: None Given
 Report Date: October 03, 2012

Page: 2 of 8

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004385.1

| Method | Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | | |
|--------------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| | | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | | | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | | |
| | | | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 | |
| LRS 12 RP 01 | Soil | | | 1.7 | 111.5 | 7.7 | 67 | 0.2 | 35.9 | 27.2 | 1127 | 5.30 | 30.9 | 18.6 | 0.6 | 26 | 0.2 | 1.5 | 0.2 | 155 | 0.57 | 0.059 | 8 |
| LRS 12 RP 02 | Soil | | | 1.2 | 73.6 | 4.3 | 59 | 0.2 | 20.1 | 25.7 | 1070 | 5.47 | 9.5 | 129.3 | 0.9 | 14 | 0.2 | 0.7 | 0.2 | 141 | 0.20 | 0.056 | 9 |
| LRS 12 RP 03 | Soil | | | 1.4 | 256.1 | 5.4 | 85 | 0.1 | 52.7 | 36.4 | 1849 | 7.00 | 9.0 | 20.3 | 0.8 | 19 | 0.3 | 1.0 | <0.1 | 186 | 0.36 | 0.089 | 7 |
| LRS 12 RP 04 | Soil | | | 0.9 | 154.2 | 4.2 | 48 | 0.2 | 29.2 | 29.4 | 864 | 4.76 | 13.8 | 44.0 | 1.0 | 17 | 0.4 | 1.1 | 0.1 | 111 | 0.44 | 0.078 | 9 |
| LRS 12 RP 05 | Soil | | | 1.0 | 69.9 | 4.0 | 45 | <0.1 | 16.3 | 14.2 | 492 | 5.08 | 6.3 | 25.5 | 1.1 | 17 | 0.1 | 0.7 | 0.1 | 132 | 0.18 | 0.108 | 5 |
| LRS 12 RP 06 | Soil | | | 0.4 | 31.2 | 4.2 | 28 | 0.2 | 8.6 | 7.9 | 259 | 5.39 | 6.0 | 46.8 | 0.7 | 13 | <0.1 | 0.7 | 0.6 | 162 | 0.12 | 0.133 | 4 |
| LRS 12 RP 07 | Soil | | | 0.9 | 151.6 | 7.2 | 71 | 0.3 | 30.6 | 30.3 | 2849 | 6.12 | 26.1 | 20.8 | 0.3 | 17 | 0.2 | 1.3 | 0.1 | 157 | 0.58 | 0.091 | 9 |
| LRS 12 RP 08 | Soil | | | 0.9 | 68.4 | 4.1 | 43 | 0.6 | 18.3 | 14.7 | 651 | 9.21 | 17.9 | 4.7 | 0.4 | 8 | 0.1 | 1.0 | 0.1 | 226 | 0.12 | 0.081 | 4 |
| LRS 12 RP 09 | Soil | | | 1.4 | 236.7 | 5.7 | 87 | 0.4 | 49.9 | 37.6 | 2595 | 7.44 | 29.9 | 22.5 | 0.6 | 11 | 0.1 | 1.4 | 0.1 | 199 | 0.13 | 0.079 | 14 |
| LRS 12 RP 10 | Soil | | | 0.9 | 172.6 | 3.2 | 78 | 0.2 | 46.3 | 23.4 | 512 | 7.00 | 29.2 | 2.3 | 0.9 | 14 | 0.1 | 0.8 | <0.1 | 203 | 0.17 | 0.073 | 6 |
| LRS 12 RP 11 | Soil | | | 1.3 | 81.4 | 4.6 | 47 | 0.1 | 19.3 | 14.7 | 450 | 5.04 | 10.3 | 173.4 | 1.0 | 19 | <0.1 | 1.0 | 0.6 | 115 | 0.18 | 0.072 | 6 |
| LRS 12 RP 12 | Soil | | | 1.0 | 121.7 | 2.9 | 60 | 0.1 | 24.3 | 15.8 | 423 | 8.80 | 21.2 | 37.6 | 0.9 | 11 | <0.1 | 1.1 | 0.1 | 292 | 0.13 | 0.053 | 5 |
| LRS 12 RP 13 | Soil | | | 0.5 | 100.6 | 2.8 | 48 | 0.3 | 22.5 | 17.6 | 616 | 7.72 | 14.8 | 5.7 | 0.9 | 14 | 0.2 | 0.5 | <0.1 | 226 | 0.16 | 0.111 | 6 |
| LRS 12 RP 14 | Soil | | | 1.1 | 113.6 | 8.7 | 70 | 0.3 | 37.1 | 27.3 | 2383 | 4.75 | 32.9 | 7.4 | 0.1 | 18 | 0.2 | 0.7 | <0.1 | 141 | 0.47 | 0.088 | 8 |
| LRS 12 RP 15 | Soil | | | 0.6 | 107.7 | 5.0 | 52 | 0.2 | 25.7 | 31.8 | 1395 | 4.97 | 22.6 | 122.7 | 0.8 | 25 | 0.2 | 1.1 | 1.0 | 128 | 0.80 | 0.115 | 8 |
| LRS 12 RP 16 | Soil | | | 4.5 | 147.6 | 7.9 | 97 | 1.0 | 38.6 | 57.0 | 731 | 6.66 | 54.2 | 9.5 | 1.4 | 14 | 0.4 | 1.4 | 0.2 | 183 | 0.16 | 0.065 | 14 |
| LRS 12 RP 17 | Soil | | | 1.7 | 75.7 | 5.0 | 76 | 0.4 | 15.4 | 22.1 | 2565 | 5.71 | 18.2 | 11.9 | 0.3 | 26 | 0.3 | 0.7 | 0.2 | 188 | 0.70 | 0.097 | 9 |
| LRS 12 RP 18 | Soil | | | 0.5 | 58.3 | 4.2 | 31 | 0.4 | 12.7 | 10.2 | 268 | 5.39 | 10.3 | 10.7 | 1.3 | 6 | <0.1 | 0.6 | <0.1 | 79 | 0.07 | 0.093 | 11 |
| LRS 12 RP 19 | Soil | | | 1.8 | 74.7 | 11.9 | 86 | 0.5 | 34.3 | 23.6 | 1397 | 5.05 | 40.5 | 18.0 | 0.7 | 14 | 0.3 | 2.6 | <0.1 | 111 | 0.25 | 0.086 | 12 |
| LRS 12 RP 20 | Soil | | | 0.6 | 172.3 | 5.3 | 64 | 1.2 | 36.6 | 36.6 | 2133 | 5.26 | 116.4 | 73.4 | 0.8 | 25 | 0.5 | 1.5 | 0.1 | 135 | 0.71 | 0.090 | 22 |
| LRS 12 RP 21 | Soil | | | 1.5 | 343.5 | 7.9 | 106 | 1.0 | 40.8 | 46.2 | 3994 | 4.71 | 55.1 | 17.1 | 0.6 | 22 | 1.8 | 0.7 | 0.1 | 139 | 0.83 | 0.100 | 15 |
| LRS 12 RP 22 | Soil | | | 0.8 | 136.1 | 3.7 | 57 | 0.9 | 29.2 | 34.3 | 689 | 4.55 | 161.0 | 70.6 | 1.3 | 29 | 0.4 | 0.9 | 0.1 | 125 | 0.70 | 0.043 | 12 |
| LRS 12 RP 23 | Soil | | | 0.9 | 155.1 | 3.4 | 58 | 0.5 | 41.7 | 45.7 | 1040 | 4.86 | 44.6 | 47.9 | 0.7 | 23 | 0.3 | 0.7 | <0.1 | 132 | 0.64 | 0.065 | 11 |
| LRS 12 RP 24 | Soil | | | 0.5 | 71.7 | 3.1 | 61 | 0.2 | 22.1 | 14.7 | 364 | 5.54 | 8.3 | 12.3 | 1.1 | 18 | <0.1 | 0.6 | <0.1 | 149 | 0.16 | 0.082 | 4 |
| LRS 12 RP 25 | Soil | | | 0.7 | 162.2 | 3.9 | 80 | 0.3 | 48.9 | 33.2 | 695 | 6.86 | 12.2 | 9.7 | 0.8 | 24 | <0.1 | 0.9 | 0.4 | 188 | 0.47 | 0.099 | 7 |
| LRS 12 RP 26 | Soil | | | 2.6 | 191.8 | 11.0 | 98 | 0.6 | 48.8 | 49.0 | 1351 | 7.26 | 33.9 | 13.4 | 0.6 | 19 | 0.7 | 1.0 | 0.1 | 221 | 0.50 | 0.106 | 8 |
| LRS 12 RP 27 | Soil | | | 0.5 | 288.4 | 2.3 | 85 | 0.3 | 72.5 | 46.2 | 1263 | 9.14 | 7.5 | 15.0 | 0.6 | 25 | 0.2 | 0.5 | <0.1 | 271 | 0.51 | 0.053 | 6 |
| LRS 12 RP 28 | Soil | | | 0.6 | 305.7 | 3.8 | 89 | 0.3 | 67.4 | 42.3 | 1743 | 9.02 | 6.7 | 2.6 | 0.5 | 29 | 0.3 | 0.7 | <0.1 | 269 | 0.83 | 0.057 | 7 |
| LRS 12 RP 29 | Soil | | | 0.4 | 265.4 | 2.5 | 83 | 0.3 | 57.0 | 36.2 | 994 | 10.57 | 6.3 | 3.2 | 0.6 | 24 | <0.1 | 0.7 | <0.1 | 336 | 0.36 | 0.061 | 6 |
| LRS 12 RP 30 | Soil | | | 2.0 | 163.8 | 2.7 | 65 | 0.4 | 46.2 | 25.2 | 432 | 9.88 | 8.5 | 3.1 | 0.9 | 16 | 0.2 | 0.5 | <0.1 | 279 | 0.28 | 0.076 | 5 |

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

Project: None Given
 Report Date: October 03, 2012

Page: 2 of 8

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004385.1

| Method | Analyte | 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 |
| 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 | 0.05 | 1 | 0.5 | 0.2 | |
| LRS 12 RP 01 | Soil | 59 | 1.40 | 163 | 0.143 | 6 | 3.25 | 0.009 | 0.03 | 0.2 | 0.14 | 10.5 | <0.1 | <0.05 | 10 | 1.8 | <0.2 |
| LRS 12 RP 02 | Soil | 51 | 1.57 | 70 | 0.107 | 1 | 3.47 | 0.006 | 0.03 | 0.2 | 0.11 | 9.0 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| LRS 12 RP 03 | Soil | 87 | 1.90 | 79 | 0.167 | 3 | 4.22 | 0.008 | 0.04 | 0.1 | 0.13 | 15.3 | <0.1 | <0.05 | 11 | 1.2 | <0.2 |
| LRS 12 RP 04 | Soil | 79 | 1.51 | 78 | 0.101 | 3 | 4.35 | 0.006 | 0.03 | 0.2 | 0.13 | 11.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| LRS 12 RP 05 | Soil | 52 | 1.14 | 28 | 0.136 | <1 | 3.51 | 0.004 | 0.03 | 0.2 | 0.11 | 7.9 | <0.1 | <0.05 | 9 | 0.7 | <0.2 |
| LRS 12 RP 06 | Soil | 38 | 0.64 | 19 | 0.134 | 1 | 3.01 | 0.004 | 0.02 | 0.1 | 0.11 | 5.8 | <0.1 | <0.05 | 11 | 1.2 | 0.6 |
| LRS 12 RP 07 | Soil | 75 | 1.20 | 79 | 0.034 | 2 | 4.12 | 0.007 | 0.02 | <0.1 | 0.17 | 13.9 | <0.1 | <0.05 | 9 | 1.7 | <0.2 |
| LRS 12 RP 08 | Soil | 80 | 0.95 | 26 | 0.063 | 2 | 3.63 | 0.005 | 0.04 | <0.1 | 0.19 | 7.6 | <0.1 | <0.05 | 14 | 1.9 | <0.2 |
| LRS 12 RP 09 | Soil | 100 | 1.63 | 59 | 0.087 | 2 | 5.31 | 0.006 | 0.03 | <0.1 | 0.27 | 25.1 | 0.1 | <0.05 | 12 | 0.8 | <0.2 |
| LRS 12 RP 10 | Soil | 98 | 1.64 | 36 | 0.268 | 4 | 6.01 | 0.006 | 0.03 | <0.1 | 0.11 | 15.6 | <0.1 | <0.05 | 12 | 1.5 | <0.2 |
| LRS 12 RP 11 | Soil | 51 | 1.44 | 27 | 0.143 | 3 | 4.31 | 0.005 | 0.02 | 0.1 | 0.19 | 9.5 | <0.1 | <0.05 | 8 | 2.5 | 0.3 |
| LRS 12 RP 12 | Soil | 97 | 0.73 | 33 | 0.195 | <1 | 5.24 | 0.006 | 0.01 | <0.1 | 0.25 | 14.9 | <0.1 | <0.05 | 15 | 1.2 | <0.2 |
| LRS 12 RP 13 | Soil | 90 | 0.88 | 20 | 0.282 | 1 | 5.76 | 0.005 | 0.02 | <0.1 | 0.18 | 14.4 | <0.1 | <0.05 | 13 | 0.9 | <0.2 |
| LRS 12 RP 14 | Soil | 70 | 1.00 | 104 | 0.098 | 2 | 2.74 | 0.011 | 0.03 | <0.1 | 0.15 | 10.7 | <0.1 | <0.05 | 8 | 1.8 | <0.2 |
| LRS 12 RP 15 | Soil | 61 | 1.65 | 55 | 0.109 | 4 | 3.84 | 0.007 | 0.04 | 0.1 | 0.09 | 12.3 | <0.1 | <0.05 | 8 | 1.6 | <0.2 |
| LRS 12 RP 16 | Soil | 110 | 0.75 | 72 | 0.128 | <1 | 5.49 | 0.006 | 0.03 | 0.2 | 0.12 | 12.0 | <0.1 | <0.05 | 14 | 2.0 | <0.2 |
| LRS 12 RP 17 | Soil | 55 | 0.78 | 99 | 0.096 | 2 | 3.21 | 0.006 | 0.03 | <0.1 | 0.13 | 8.5 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| LRS 12 RP 18 | Soil | 80 | 0.49 | 41 | 0.061 | 2 | 8.42 | 0.004 | 0.02 | <0.1 | 0.25 | 14.0 | <0.1 | <0.05 | 6 | 2.6 | <0.2 |
| LRS 12 RP 19 | Soil | 45 | 0.78 | 62 | 0.076 | <1 | 2.97 | 0.005 | 0.03 | <0.1 | 0.14 | 8.5 | <0.1 | <0.05 | 7 | 1.9 | <0.2 |
| LRS 12 RP 20 | Soil | 79 | 1.69 | 141 | 0.118 | 2 | 3.33 | 0.012 | 0.03 | 0.1 | 0.43 | 45.8 | <0.1 | <0.05 | 8 | 0.7 | <0.2 |
| LRS 12 RP 21 | Soil | 104 | 0.77 | 76 | 0.173 | 2 | 4.51 | 0.010 | 0.03 | <0.1 | 0.24 | 19.4 | 0.1 | <0.05 | 13 | 2.0 | <0.2 |
| LRS 12 RP 22 | Soil | 177 | 1.49 | 60 | 0.139 | 2 | 4.51 | 0.007 | 0.03 | 0.2 | 0.24 | 20.3 | <0.1 | <0.05 | 8 | 0.7 | <0.2 |
| LRS 12 RP 23 | Soil | 118 | 1.56 | 56 | 0.160 | 4 | 4.61 | 0.010 | 0.03 | <0.1 | 0.17 | 19.9 | <0.1 | <0.05 | 9 | 0.8 | <0.2 |
| LRS 12 RP 24 | Soil | 62 | 1.05 | 33 | 0.187 | 1 | 5.29 | 0.006 | 0.02 | 0.1 | 0.17 | 10.0 | <0.1 | <0.05 | 9 | 0.7 | <0.2 |
| LRS 12 RP 25 | Soil | 81 | 1.56 | 53 | 0.323 | 4 | 5.25 | 0.009 | 0.03 | <0.1 | 0.12 | 16.7 | 0.1 | <0.05 | 12 | <0.5 | <0.2 |
| LRS 12 RP 26 | Soil | 83 | 0.93 | 75 | 0.242 | 4 | 4.79 | 0.008 | 0.03 | <0.1 | 0.20 | 16.7 | 0.1 | 0.06 | 13 | 1.6 | <0.2 |
| LRS 12 RP 27 | Soil | 121 | 2.17 | 60 | 0.348 | 4 | 5.68 | 0.010 | 0.02 | 0.1 | 0.14 | 23.9 | <0.1 | <0.05 | 16 | <0.5 | <0.2 |
| LRS 12 RP 28 | Soil | 108 | 2.38 | 59 | 0.330 | 7 | 4.48 | 0.012 | 0.02 | <0.1 | 0.14 | 23.5 | <0.1 | <0.05 | 15 | <0.5 | <0.2 |
| LRS 12 RP 29 | Soil | 119 | 1.80 | 49 | 0.376 | 4 | 4.91 | 0.010 | 0.02 | <0.1 | 0.16 | 19.2 | <0.1 | <0.05 | 17 | <0.5 | <0.2 |
| LRS 12 RP 30 | Soil | 119 | 0.95 | 34 | 0.489 | 3 | 6.39 | 0.007 | 0.02 | <0.1 | 0.18 | 17.2 | <0.1 | 0.05 | 14 | 1.6 | <0.2 |



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Project: None Given
 Report Date: October 03, 2012

Page: 3 of 8

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004385.1

| Method | Analyte | Unit | MDL | 1DX15 Mo | 1DX15 Cu | 1DX15 Pb | 1DX15 Zn | 1DX15 Ag | 1DX15 Ni | 1DX15 Co | 1DX15 Mn | 1DX15 Fe | 1DX15 As | 1DX15 Au | 1DX15 Th | 1DX15 Sr | 1DX15 Cd | 1DX15 Sb | 1DX15 Bi | 1DX15 V | 1DX15 Ca | 1DX15 P | 1DX15 La |
|--------------|----------|------|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|---------|----------|
| | | | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | | | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| LRS 12 RP 31 | Soil | | | 0.3 | 213.4 | 3.3 | 73 | 0.4 | 64.8 | 32.8 | 612 | 6.49 | 8.8 | 4.5 | 1.0 | 24 | 0.2 | 0.6 | <0.1 | 230 | 0.34 | 0.062 | 6 |
| LRS 12 RP 32 | Soil | | | 0.5 | 221.3 | 2.6 | 67 | <0.1 | 53.0 | 30.4 | 810 | 7.02 | 3.7 | 8.4 | 0.5 | 44 | 0.5 | 0.7 | <0.1 | 248 | 0.73 | 0.061 | 4 |
| LRS 12 RP 33 | Soil | | | 0.6 | 197.9 | 3.0 | 63 | <0.1 | 57.6 | 32.7 | 1244 | 5.55 | 7.2 | 4.6 | 0.6 | 32 | <0.1 | 0.5 | <0.1 | 176 | 0.76 | 0.063 | 6 |
| LRS 12 RP 34 | Soil | | | 0.3 | 43.8 | 3.7 | 47 | <0.1 | 23.5 | 14.2 | 300 | 4.77 | 3.2 | 18.8 | 0.7 | 30 | <0.1 | 0.6 | <0.1 | 151 | 0.32 | 0.042 | 6 |
| LRS 12 RP 35 | Soil | | | 1.2 | 139.4 | 2.9 | 64 | <0.1 | 50.8 | 48.1 | 1184 | 4.37 | 8.4 | 14.0 | 0.9 | 15 | <0.1 | 0.5 | <0.1 | 111 | 0.22 | 0.107 | 5 |
| LRS 12 RP 36 | Soil | | | 0.3 | 38.5 | 5.0 | 22 | 0.2 | 10.6 | 6.9 | 265 | 6.59 | 1.6 | <0.5 | 0.3 | 14 | <0.1 | 0.6 | <0.1 | 380 | 0.22 | 0.043 | 2 |
| LRS 12 RP 37 | Soil | | | 0.8 | 180.5 | 3.2 | 62 | 0.4 | 51.6 | 25.6 | 787 | 6.43 | 91.8 | 4.9 | 0.6 | 15 | 0.3 | 0.5 | <0.1 | 180 | 0.25 | 0.076 | 5 |
| LRS 12 RP 38 | Soil | | | 0.7 | 152.4 | 4.1 | 54 | 0.4 | 41.9 | 22.3 | 679 | 7.39 | 75.4 | 6.1 | 0.6 | 13 | 0.2 | 0.5 | <0.1 | 239 | 0.24 | 0.076 | 5 |
| LRS 12 RP 39 | Soil | | | 0.6 | 132.9 | 4.9 | 53 | 0.3 | 41.8 | 20.4 | 689 | 6.12 | 69.4 | 4.7 | 0.5 | 14 | 0.2 | 0.4 | <0.1 | 189 | 0.30 | 0.070 | 4 |
| LRS 12 RP 40 | Soil | | | 0.5 | 53.4 | 4.2 | 44 | 0.4 | 15.3 | 11.8 | 1016 | 12.96 | 3.6 | 2.2 | 0.6 | 8 | 0.2 | 0.5 | 0.1 | 379 | 0.23 | 0.099 | 2 |
| LRS 12 RP 41 | Soil | | | 0.3 | 37.1 | 9.0 | 18 | 0.2 | 10.4 | 5.9 | 211 | 3.33 | 1.9 | 1.6 | 0.3 | 10 | 0.1 | 0.6 | 0.1 | 315 | 0.23 | 0.045 | 2 |
| LRS 12 RP 42 | Soil | | | 0.6 | 73.5 | 5.1 | 45 | 0.3 | 20.6 | 51.0 | 1605 | 9.06 | 2.0 | 1.3 | 0.5 | 8 | 0.1 | 0.5 | 0.1 | 341 | 0.19 | 0.077 | 4 |
| LRS 12 RP 43 | Soil | | | 0.6 | 74.2 | 5.3 | 44 | 0.4 | 19.3 | 49.9 | 1619 | 8.76 | 2.2 | 1.9 | 0.6 | 8 | 0.2 | 0.5 | 0.1 | 337 | 0.17 | 0.080 | 4 |
| LRS 12 RP 44 | Soil | | | 2.4 | 199.8 | 3.9 | 146 | 0.8 | 53.3 | 41.9 | >10000 | 5.67 | 8.3 | 4.4 | 0.4 | 15 | 0.9 | 0.5 | <0.1 | 221 | 0.62 | 0.100 | 11 |
| LRS 12 RP 45 | Soil | | | 1.1 | 70.8 | 4.4 | 42 | 0.2 | 18.5 | 11.7 | 479 | 13.13 | 6.3 | 3.0 | 0.7 | 8 | <0.1 | 0.7 | 0.1 | 463 | 0.10 | 0.106 | 2 |
| LCYSTD 17 | Rock DUP | | | 30.4 | 6905 | 4688 | >10000 | 70.3 | 35.0 | 49.0 | 486 | 4.50 | 51.8 | 555.5 | 4.0 | 31 | 63.8 | 64.1 | 10.8 | 59 | 0.78 | 0.049 | 9 |
| LL 12 LH 16 | Soil | | | 0.8 | 38.3 | 4.5 | 67 | <0.1 | 92.2 | 20.3 | 327 | 4.50 | 8.2 | <0.5 | 1.3 | 14 | <0.1 | 3.8 | <0.1 | 174 | 0.11 | 0.130 | 13 |
| LL 12 LH 17 | Soil | | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LL 12 LH 18 | Soil | | | 0.3 | 8.4 | 4.5 | 24 | 0.1 | 9.0 | 5.0 | 203 | 2.47 | 1.4 | 3.7 | 0.6 | 19 | <0.1 | 0.4 | <0.1 | 93 | 0.29 | 0.026 | 3 |
| LL 12 LH 19 | Soil | | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LL 12 LH 20 | Soil | | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LL 12 LH 21 | Soil | | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LL 12 LH 22 | Soil | | | 0.4 | 34.3 | 6.2 | 54 | 0.1 | 13.5 | 10.9 | 468 | 4.42 | 4.5 | 1.0 | 0.6 | 14 | 0.1 | 0.6 | <0.1 | 178 | 0.34 | 0.049 | 3 |
| LL 12 LH 23 | Soil | | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LL 12 LH 24 | Soil | | | 0.8 | 18.1 | 10.0 | 125 | 0.5 | 14.2 | 11.9 | 532 | 3.90 | 5.5 | 3.5 | 0.6 | 19 | 0.3 | 0.7 | 0.1 | 122 | 0.26 | 0.054 | 4 |
| LL 12 LH 25 | Soil | | | 1.4 | 77.3 | 4.4 | 86 | 0.2 | 15.1 | 39.1 | 1542 | 4.16 | 9.7 | 3.3 | 2.7 | 10 | 0.1 | 0.6 | <0.1 | 101 | 0.16 | 0.261 | 8 |
| LL 12 LH 26 | Soil | | | 0.3 | 28.4 | 7.3 | 73 | <0.1 | 8.3 | 12.3 | 1383 | 5.89 | 4.4 | 2.4 | 1.2 | 26 | <0.1 | 0.3 | 0.2 | 188 | 0.32 | 0.153 | 3 |
| LL 12 LH 27 | Soil | | | 0.7 | 8.8 | 8.2 | 20 | <0.1 | 5.1 | 3.2 | 145 | 5.75 | 5.4 | 0.6 | 0.5 | 23 | <0.1 | 0.7 | 0.2 | 279 | 0.29 | 0.076 | 3 |
| LL 12 LH 28 | Soil | | | 1.0 | 61.4 | 17.2 | 174 | 0.1 | 25.5 | 19.6 | 1069 | 4.93 | 12.0 | 3.2 | 1.1 | 14 | 0.3 | 0.9 | 0.1 | 173 | 0.35 | 0.070 | 5 |
| LL 12 LH 29 | Soil | | | 6.2 | 23.3 | 10.2 | 103 | 0.2 | 8.1 | 14.4 | 967 | 4.87 | 333.9 | 1.3 | 0.5 | 32 | 3.0 | 1.1 | 0.1 | 181 | 0.65 | 0.080 | 7 |

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Project: None Given
 Report Date: October 03, 2012

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Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004385.1

| Method | Analyte | 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 |
| 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 | 0.05 | 1 | 0.5 | 0.2 | |
| LRS 12 RP 31 | Soil | 129 | 1.93 | 43 | 0.429 | 3 | 5.89 | 0.011 | 0.03 | 0.2 | 0.16 | 27.6 | <0.1 | 0.05 | 13 | 0.7 | <0.2 |
| LRS 12 RP 32 | Soil | 93 | 1.64 | 42 | 0.568 | 2 | 3.75 | 0.013 | 0.02 | <0.1 | 0.09 | 15.1 | <0.1 | <0.05 | 14 | <0.5 | <0.2 |
| LRS 12 RP 33 | Soil | 97 | 2.10 | 84 | 0.313 | 5 | 3.61 | 0.012 | 0.05 | 0.1 | 0.10 | 15.7 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| LRS 12 RP 34 | Soil | 70 | 0.88 | 47 | 0.140 | <1 | 2.64 | 0.007 | 0.03 | <0.1 | 0.06 | 7.7 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| LRS 12 RP 35 | Soil | 108 | 1.10 | 65 | 0.108 | 5 | 7.25 | 0.007 | 0.05 | 0.2 | 0.12 | 15.6 | <0.1 | <0.05 | 6 | 0.9 | <0.2 |
| LRS 12 RP 36 | Soil | 43 | 0.23 | 34 | 0.486 | <1 | 1.30 | 0.008 | 0.02 | <0.1 | 0.10 | 3.9 | <0.1 | <0.05 | 21 | <0.5 | <0.2 |
| LRS 12 RP 37 | Soil | 86 | 1.09 | 104 | 0.215 | 3 | 5.33 | 0.010 | 0.02 | <0.1 | 0.28 | 16.6 | <0.1 | <0.05 | 10 | 2.0 | <0.2 |
| LRS 12 RP 38 | Soil | 88 | 0.88 | 92 | 0.298 | 2 | 4.95 | 0.011 | 0.02 | <0.1 | 0.30 | 15.9 | <0.1 | <0.05 | 12 | 1.5 | <0.2 |
| LRS 12 RP 39 | Soil | 75 | 0.99 | 97 | 0.258 | 3 | 4.32 | 0.018 | 0.03 | <0.1 | 0.25 | 12.8 | <0.1 | <0.05 | 11 | 1.6 | <0.2 |
| LRS 12 RP 40 | Soil | 86 | 0.50 | 14 | 0.327 | 1 | 3.09 | 0.006 | 0.02 | <0.1 | 0.27 | 6.1 | <0.1 | <0.05 | 19 | 1.0 | <0.2 |
| LRS 12 RP 41 | Soil | 33 | 0.15 | 21 | 0.415 | 2 | 0.60 | 0.010 | 0.02 | <0.1 | 0.17 | 3.1 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| LRS 12 RP 42 | Soil | 97 | 0.36 | 26 | 0.392 | 2 | 3.03 | 0.006 | 0.02 | <0.1 | 0.19 | 7.3 | <0.1 | <0.05 | 20 | 0.7 | <0.2 |
| LRS 12 RP 43 | Soil | 95 | 0.32 | 26 | 0.385 | 2 | 3.05 | 0.008 | 0.02 | <0.1 | 0.18 | 7.8 | <0.1 | <0.05 | 20 | 0.7 | <0.2 |
| LRS 12 RP 44 | Soil | 96 | 0.83 | 89 | 0.156 | 4 | 5.10 | 0.009 | 0.02 | <0.1 | 0.25 | 19.9 | <0.1 | <0.05 | 14 | 2.7 | <0.2 |
| LRS 12 RP 45 | Soil | 93 | 0.54 | 15 | 0.531 | 2 | 3.80 | 0.006 | 0.03 | <0.1 | 0.21 | 6.6 | <0.1 | <0.05 | 25 | 0.7 | <0.2 |
| LCYSTD 17 | Rock DUP | 34 | 1.01 | 63 | 0.106 | 4 | 1.59 | 0.085 | 0.21 | 31.2 | 1.82 | 4.3 | 1.9 | 2.80 | 9 | 3.8 | <0.2 |
| LL 12 LH 16 | Soil | 123 | 0.84 | 149 | 0.002 | 4 | 3.69 | 0.005 | 0.04 | 0.1 | 0.90 | 12.9 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| LL 12 LH 17 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LL 12 LH 18 | Soil | 27 | 0.26 | 28 | 0.131 | <1 | 1.25 | 0.005 | 0.02 | <0.1 | 0.04 | 2.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| LL 12 LH 19 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LL 12 LH 20 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LL 12 LH 21 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LL 12 LH 22 | Soil | 37 | 0.28 | 92 | 0.182 | 1 | 1.90 | 0.006 | 0.02 | <0.1 | 0.07 | 4.3 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| LL 12 LH 23 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LL 12 LH 24 | Soil | 35 | 0.37 | 53 | 0.069 | <1 | 2.68 | 0.004 | 0.03 | <0.1 | 0.17 | 4.8 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| LL 12 LH 25 | Soil | 65 | 0.18 | 48 | 0.107 | 2 | 9.38 | 0.006 | 0.03 | 0.1 | 0.47 | 23.7 | <0.1 | <0.05 | 7 | 3.4 | <0.2 |
| LL 12 LH 26 | Soil | 39 | 0.28 | 50 | 0.237 | 2 | 2.30 | 0.009 | 0.02 | <0.1 | 0.17 | 7.8 | <0.1 | <0.05 | 13 | 1.2 | <0.2 |
| LL 12 LH 27 | Soil | 26 | 0.19 | 20 | 0.220 | <1 | 1.39 | 0.004 | 0.03 | <0.1 | 0.09 | 3.9 | <0.1 | <0.05 | 17 | <0.5 | <0.2 |
| LL 12 LH 28 | Soil | 45 | 0.59 | 71 | 0.178 | 2 | 3.65 | 0.006 | 0.04 | <0.1 | 0.14 | 7.5 | <0.1 | <0.05 | 10 | 0.8 | <0.2 |
| LL 12 LH 29 | Soil | 24 | 0.39 | 33 | 0.338 | 2 | 1.83 | 0.005 | 0.03 | <0.1 | 0.13 | 2.5 | <0.1 | <0.05 | 10 | 0.8 | <0.2 |

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Project: None Given
 Report Date: October 03, 2012

Page: 4 of 8

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004385.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|--------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | % | % | ppm | |
| MDL | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 | |
| LL 12 LH 30 | Soil | 1.3 | 52.4 | 4.0 | 123 | <0.1 | 6.3 | 26.3 | 1421 | 8.16 | 61.7 | 1.5 | 0.9 | 22 | 0.3 | 0.4 | <0.1 | 138 | 0.57 | 0.292 | 18 |
| LH-31 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LL12 LH-32 | Soil | 0.6 | 12.6 | 4.0 | 39 | 0.1 | 9.3 | 4.6 | 106 | 3.42 | 5.6 | 1.0 | 0.4 | 11 | <0.1 | 1.1 | <0.1 | 123 | 0.19 | 0.021 | 3 |
| LL12 LH-33 | Soil | 0.6 | 60.1 | 6.7 | 111 | 0.1 | 13.2 | 9.8 | 282 | 3.49 | 4.7 | 3.4 | 0.7 | 14 | 0.1 | 0.8 | 0.1 | 116 | 0.25 | 0.033 | 3 |
| LL12 LH-34 | Soil | 0.6 | 11.0 | 6.0 | 27 | <0.1 | 6.7 | 4.3 | 142 | 3.07 | 3.2 | 2.8 | 0.4 | 17 | 0.1 | 0.7 | <0.1 | 106 | 0.23 | 0.022 | 3 |
| LH-35 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| L12 LH-36 | Soil | 0.6 | 32.6 | 7.3 | 27 | 0.2 | 21.0 | 13.2 | 840 | 3.19 | 11.2 | 7.8 | 0.7 | 27 | 0.2 | 0.8 | <0.1 | 98 | 1.20 | 0.041 | 9 |
| L12 LH-37 | Soil | 0.5 | 14.0 | 6.6 | 70 | 0.2 | 14.2 | 14.0 | 1800 | 2.33 | 2.3 | 3.0 | 0.6 | 13 | <0.1 | 0.3 | 0.1 | 65 | 0.33 | 0.060 | 6 |
| L12 LH-38 | Soil | 0.3 | 13.8 | 4.4 | 25 | <0.1 | 14.7 | 7.3 | 310 | 2.30 | 2.4 | 1.7 | 0.4 | 14 | <0.1 | 0.3 | <0.1 | 78 | 0.30 | 0.028 | 3 |
| L12 LH-39 | Soil | 0.6 | 32.1 | 4.5 | 89 | 0.2 | 32.1 | 15.3 | 381 | 3.58 | 3.9 | 2.9 | 0.7 | 12 | 0.2 | 0.7 | <0.1 | 87 | 0.23 | 0.103 | 4 |
| L12 LH-40 | Soil | 0.7 | 23.7 | 5.0 | 35 | 0.1 | 25.2 | 17.9 | 2042 | 4.13 | 4.7 | 3.1 | 0.7 | 27 | 0.2 | 1.6 | <0.1 | 121 | 0.83 | 0.040 | 9 |
| L12 LH-41 | Soil | 0.5 | 35.2 | 5.0 | 48 | <0.1 | 22.4 | 13.2 | 854 | 3.25 | 3.3 | 1.1 | 0.9 | 13 | <0.1 | 0.3 | <0.1 | 110 | 0.29 | 0.050 | 4 |
| LH-42 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| L12 LH-43 | Soil | 1.2 | 43.6 | 4.9 | 45 | 0.2 | 24.0 | 12.4 | 316 | 4.06 | 3.5 | 2.0 | 1.0 | 12 | 0.1 | 0.3 | <0.1 | 144 | 0.29 | 0.077 | 4 |
| L12 LH-44 | Soil | 1.4 | 54.9 | 4.3 | 46 | 0.1 | 26.8 | 14.0 | 355 | 4.23 | 4.0 | 1.9 | 1.2 | 11 | 0.1 | 0.4 | <0.1 | 145 | 0.30 | 0.061 | 8 |
| L12 LH-45 | Soil | 0.7 | 13.2 | 6.8 | 52 | <0.1 | 7.9 | 6.5 | 1128 | 3.03 | 2.7 | 3.0 | 0.7 | 15 | <0.1 | 0.3 | 0.1 | 95 | 0.23 | 0.167 | 3 |
| L12 LH-46 | Soil | 0.4 | 5.2 | 6.2 | 33 | <0.1 | 6.9 | 5.2 | 492 | 1.94 | 0.8 | 5.3 | 0.4 | 18 | <0.1 | 0.3 | <0.1 | 63 | 0.22 | 0.025 | 3 |
| LRS 12 LH-47 | Soil | 0.6 | 91.2 | 6.5 | 41 | 0.1 | 24.6 | 15.4 | 517 | 4.84 | 4.6 | 16.0 | 0.7 | 26 | 0.2 | 0.6 | 0.2 | 196 | 0.43 | 0.110 | 3 |
| LRS 12 LH-48 | Soil | 0.9 | 116.9 | 4.0 | 92 | 0.4 | 44.5 | 41.8 | 943 | 3.98 | 4.3 | 10.6 | 0.5 | 23 | 0.6 | 0.6 | 0.1 | 151 | 0.62 | 0.107 | 6 |
| LRS 12 LH-49 | Soil | 1.0 | 108.3 | 3.9 | 49 | 0.1 | 30.6 | 15.8 | 355 | 4.81 | 5.3 | 15.8 | 0.8 | 19 | <0.1 | 0.6 | 0.1 | 156 | 0.25 | 0.122 | 4 |
| LRS 12 LH-50 | Soil | 0.9 | 30.3 | 7.2 | 27 | <0.1 | 16.5 | 9.5 | 271 | 6.53 | 3.0 | 8.8 | 0.4 | 26 | <0.1 | 0.9 | 0.2 | 297 | 0.32 | 0.071 | 2 |
| LRS 12 LH-51 | Soil | 0.4 | 33.6 | 8.4 | 23 | 0.1 | 13.8 | 8.3 | 404 | 4.27 | 1.6 | 23.9 | 0.3 | 18 | <0.1 | 0.4 | 0.1 | 203 | 0.31 | 0.054 | 2 |
| LRS 12 LH-52 | Soil | 0.5 | 37.7 | 3.6 | 42 | 0.1 | 19.1 | 9.6 | 245 | 5.09 | 2.3 | 32.3 | 0.4 | 17 | <0.1 | 0.4 | <0.1 | 208 | 0.25 | 0.044 | 2 |
| LRS 12 LH-53 | Soil | 0.7 | 369.7 | 5.9 | 60 | 0.3 | 49.1 | 32.9 | 1089 | 5.62 | 16.5 | 9.3 | 0.3 | 30 | 0.2 | 1.4 | 0.3 | 182 | 0.84 | 0.047 | 3 |
| LRS 12 LH-54 | Soil | 0.4 | 47.4 | 3.4 | 30 | 0.1 | 15.4 | 9.9 | 188 | 4.77 | 3.4 | 9.2 | 0.3 | 16 | 0.1 | 0.5 | <0.1 | 218 | 0.25 | 0.062 | 3 |
| LRS 12 LH-55 | Soil | 0.6 | 74.7 | 3.4 | 55 | 0.2 | 21.8 | 12.8 | 287 | 5.23 | 4.1 | 10.8 | 0.5 | 22 | <0.1 | 1.7 | 0.2 | 193 | 0.25 | 0.037 | 3 |
| LRS 12 LH-56 | Soil | 0.8 | 83.2 | 3.1 | 42 | 0.2 | 25.2 | 15.3 | 474 | 5.84 | 4.5 | 58.0 | 0.5 | 19 | 0.2 | 0.4 | <0.1 | 217 | 0.29 | 0.069 | 3 |
| LRS 12 LH-57 | Soil | 0.3 | 228.8 | 4.1 | 46 | 0.3 | 42.8 | 46.8 | 1972 | 3.74 | 2.8 | 9.4 | 0.2 | 102 | 0.4 | 0.4 | <0.1 | 185 | 1.58 | 0.043 | 2 |
| LRS 12 LH-58 | Soil | 0.7 | 127.3 | 3.0 | 65 | 0.2 | 47.4 | 27.5 | 908 | 5.03 | 3.7 | 18.7 | 0.4 | 19 | 0.1 | 0.5 | <0.1 | 173 | 0.43 | 0.051 | 5 |
| LRS 12 LH-59 | Soil | 0.7 | 317.5 | 6.1 | 59 | 0.7 | 52.2 | 60.3 | 1398 | 5.81 | 14.4 | 23.9 | 0.3 | 35 | 0.3 | 0.5 | 0.1 | 202 | 0.81 | 0.038 | 3 |

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Project: None Given
 Report Date: October 03, 2012

Page: 4 of 8

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004385.1

| Method | Analyte | 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 |
| 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 | 0.05 | 1 | 0.5 | 0.2 | |
| LL 12 LH 30 | Soil | 7 | 1.96 | 41 | 0.382 | <1 | 3.76 | 0.005 | 0.36 | <0.1 | 0.06 | 6.7 | <0.1 | <0.05 | 17 | 0.7 | <0.2 |
| LH-31 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LL12 LH-32 | Soil | 26 | 0.23 | 33 | 0.092 | 1 | 1.34 | 0.005 | 0.02 | <0.1 | 0.08 | 2.6 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| LL12 LH-33 | Soil | 30 | 0.31 | 34 | 0.156 | 1 | 2.44 | 0.008 | 0.02 | <0.1 | 0.19 | 3.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| LL12 LH-34 | Soil | 23 | 0.22 | 34 | 0.080 | 1 | 1.21 | 0.006 | 0.02 | <0.1 | 0.04 | 2.7 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| LH-35 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| L12 LH-36 | Soil | 57 | 0.33 | 85 | 0.096 | 4 | 2.32 | 0.011 | 0.02 | <0.1 | 0.19 | 8.2 | <0.1 | <0.05 | 6 | 1.6 | <0.2 |
| L12 LH-37 | Soil | 21 | 0.24 | 74 | 0.072 | 2 | 1.86 | 0.005 | 0.03 | <0.1 | 0.14 | 3.2 | <0.1 | <0.05 | 6 | 0.7 | <0.2 |
| L12 LH-38 | Soil | 27 | 0.26 | 73 | 0.026 | <1 | 1.68 | 0.005 | 0.02 | <0.1 | 0.08 | 2.7 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| L12 LH-39 | Soil | 37 | 0.41 | 89 | 0.056 | 2 | 2.64 | 0.006 | 0.04 | <0.1 | 0.11 | 3.6 | <0.1 | <0.05 | 7 | 0.6 | <0.2 |
| L12 LH-40 | Soil | 56 | 0.38 | 123 | 0.077 | 1 | 2.96 | 0.008 | 0.03 | <0.1 | 0.13 | 9.7 | <0.1 | <0.05 | 8 | 1.7 | <0.2 |
| L12 LH-41 | Soil | 37 | 0.39 | 92 | 0.124 | 2 | 2.70 | 0.007 | 0.03 | <0.1 | 0.09 | 4.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| LH-42 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| L12 LH-43 | Soil | 40 | 0.49 | 62 | 0.190 | 2 | 3.53 | 0.006 | 0.03 | <0.1 | 0.18 | 5.2 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| L12 LH-44 | Soil | 46 | 0.51 | 49 | 0.194 | 2 | 3.86 | 0.007 | 0.03 | <0.1 | 0.16 | 8.9 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| L12 LH-45 | Soil | 23 | 0.20 | 71 | 0.075 | <1 | 2.25 | 0.005 | 0.03 | <0.1 | 0.10 | 3.1 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| L12 LH-46 | Soil | 19 | 0.33 | 62 | 0.032 | 1 | 1.37 | 0.006 | 0.03 | <0.1 | 0.08 | 3.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| LRS 12 LH-47 | Soil | 65 | 1.01 | 21 | 0.244 | 2 | 3.32 | 0.016 | 0.03 | <0.1 | 0.08 | 8.4 | <0.1 | <0.05 | 11 | 0.6 | <0.2 |
| LRS 12 LH-48 | Soil | 77 | 0.88 | 45 | 0.145 | 5 | 5.53 | 0.009 | 0.03 | <0.1 | 0.14 | 11.8 | <0.1 | <0.05 | 8 | 2.3 | <0.2 |
| LRS 12 LH-49 | Soil | 66 | 1.22 | 26 | 0.198 | 4 | 4.17 | 0.007 | 0.03 | 0.1 | 0.20 | 8.6 | <0.1 | <0.05 | 11 | 1.0 | <0.2 |
| LRS 12 LH-50 | Soil | 54 | 0.54 | 12 | 0.357 | 1 | 1.89 | 0.008 | 0.02 | <0.1 | 0.06 | 4.4 | <0.1 | <0.05 | 17 | <0.5 | <0.2 |
| LRS 12 LH-51 | Soil | 38 | 0.48 | 15 | 0.281 | 2 | 1.49 | 0.008 | 0.03 | <0.1 | 0.10 | 3.8 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| LRS 12 LH-52 | Soil | 53 | 0.56 | 23 | 0.292 | 2 | 2.03 | 0.008 | 0.03 | <0.1 | 0.06 | 4.0 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| LRS 12 LH-53 | Soil | 73 | 1.64 | 21 | 0.286 | 4 | 2.44 | 0.020 | 0.03 | 0.1 | 0.21 | 9.9 | <0.1 | <0.05 | 9 | 1.0 | 0.2 |
| LRS 12 LH-54 | Soil | 46 | 0.54 | 24 | 0.246 | 2 | 2.53 | 0.006 | 0.02 | <0.1 | 0.06 | 4.1 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| LRS 12 LH-55 | Soil | 52 | 0.57 | 29 | 0.255 | 2 | 2.93 | 0.007 | 0.02 | <0.1 | 0.12 | 5.3 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| LRS 12 LH-56 | Soil | 60 | 0.73 | 15 | 0.215 | 2 | 3.55 | 0.009 | 0.02 | <0.1 | 0.10 | 7.2 | <0.1 | <0.05 | 12 | 0.5 | <0.2 |
| LRS 12 LH-57 | Soil | 59 | 0.98 | 63 | 0.231 | 3 | 3.38 | 0.009 | 0.02 | <0.1 | 0.19 | 9.6 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| LRS 12 LH-58 | Soil | 71 | 1.42 | 59 | 0.108 | 3 | 3.79 | 0.008 | 0.04 | <0.1 | 0.09 | 8.5 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| LRS 12 LH-59 | Soil | 65 | 1.00 | 28 | 0.177 | 4 | 2.90 | 0.024 | 0.02 | <0.1 | 0.38 | 8.6 | <0.1 | <0.05 | 11 | 1.2 | <0.2 |

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Project: None Given
 Report Date: October 03, 2012

Page: 5 of 8

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004385.1

| Method Analyte | Unit | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-------------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| MDL | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | |
| | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 | |
| LH 60 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | |
| LRS 12 LH 61 | Soil | 1.1 | 143.0 | 4.0 | 47 | 0.2 | 28.6 | 29.0 | 1464 | 6.07 | 5.0 | 56.7 | 0.4 | 21 | 0.3 | 0.5 | <0.1 | 225 | 1.00 | 0.043 | 6 |
| LRS 12 LH 62 | Soil | 0.8 | 231.4 | 5.3 | 34 | 0.6 | 22.2 | 13.0 | 317 | 6.62 | 4.7 | 130.5 | 0.3 | 23 | <0.1 | 0.5 | 0.2 | 235 | 0.25 | 0.090 | 2 |
| LRS 12 LH 63 | Soil | 0.9 | 85.7 | 3.1 | 47 | 0.2 | 27.0 | 17.7 | 641 | 5.97 | 5.8 | 11.0 | 0.6 | 14 | <0.1 | 0.5 | <0.1 | 178 | 0.21 | 0.089 | 3 |
| LRS 12 LH 64 | Soil | 0.6 | 43.3 | 2.7 | 40 | <0.1 | 47.6 | 21.8 | 799 | 4.36 | 6.1 | 16.9 | 0.8 | 16 | <0.1 | 0.7 | <0.1 | 118 | 0.48 | 0.050 | 6 |
| LRS 12 LH 65 | Soil | 1.2 | 44.5 | 3.3 | 62 | 0.1 | 25.6 | 26.5 | 1249 | 4.52 | 2.8 | 8.8 | 0.3 | 21 | 0.2 | 0.4 | <0.1 | 163 | 0.52 | 0.049 | 3 |
| LRS 12 LH 66 | Soil | 0.6 | 20.0 | 4.3 | 22 | <0.1 | 12.4 | 7.1 | 196 | 4.35 | 1.9 | 10.3 | 0.3 | 21 | <0.1 | 0.4 | <0.1 | 182 | 0.33 | 0.054 | 2 |
| LRS 12 LH 67 | Soil | 1.1 | 113.4 | 2.7 | 55 | <0.1 | 34.3 | 16.6 | 319 | 6.13 | 6.2 | 18.1 | 0.8 | 15 | <0.1 | 0.5 | <0.1 | 226 | 0.23 | 0.096 | 3 |
| LRS 12 LH 68 | Soil | 0.8 | 124.2 | 15.3 | 45 | 0.1 | 31.1 | 21.3 | 899 | 4.68 | 3.9 | 14.6 | 0.5 | 21 | <0.1 | 0.3 | <0.1 | 171 | 0.68 | 0.061 | 3 |
| LRS 12 LH 69 | Soil | 0.8 | 107.4 | 2.0 | 43 | 0.2 | 43.9 | 17.2 | 384 | 4.52 | 5.2 | 45.6 | 0.8 | 16 | <0.1 | 0.4 | <0.1 | 144 | 0.39 | 0.047 | 4 |
| LRS 12 LH 70 | Soil | 0.9 | 111.5 | 2.4 | 32 | <0.1 | 28.8 | 12.1 | 244 | 6.92 | 5.4 | 19.4 | 0.8 | 11 | <0.1 | 0.4 | <0.1 | 188 | 0.21 | 0.055 | 3 |
| LRS 12 LH 71 | Soil | 1.4 | 201.4 | 2.7 | 63 | 0.2 | 46.4 | 27.9 | 2291 | 6.35 | 6.7 | 17.9 | 0.6 | 15 | 0.2 | 0.5 | <0.1 | 253 | 0.28 | 0.060 | 4 |
| LRS 12 LH 72 | Soil | 0.6 | 62.7 | 2.6 | 41 | <0.1 | 33.4 | 16.4 | 388 | 4.46 | 5.9 | 22.7 | 0.7 | 18 | <0.1 | 0.4 | <0.1 | 144 | 0.30 | 0.044 | 4 |
| LH 73 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LRS 12 LH 74 | Soil | 0.4 | 71.4 | 2.0 | 43 | <0.1 | 34.7 | 20.4 | 590 | 4.33 | 5.8 | 20.9 | 0.5 | 19 | <0.1 | 0.5 | <0.1 | 148 | 0.42 | 0.057 | 3 |
| LH 75 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LRS 12 LH 76 | Soil | 0.9 | 55.0 | 2.4 | 40 | <0.1 | 25.6 | 13.0 | 310 | 5.39 | 3.4 | 9.2 | 0.4 | 15 | <0.1 | 0.5 | <0.1 | 210 | 0.20 | 0.043 | 3 |
| LRS 12 LH 77 | Soil | 0.7 | 76.8 | 2.5 | 46 | 0.2 | 27.9 | 15.1 | 347 | 4.96 | 4.6 | 12.1 | 0.6 | 14 | <0.1 | 0.6 | <0.1 | 174 | 0.21 | 0.064 | 4 |
| LRS 12 LH 78 | Soil | 0.6 | 84.6 | 2.2 | 53 | 0.1 | 43.7 | 21.0 | 440 | 4.81 | 5.4 | 24.8 | 0.5 | 15 | <0.1 | 0.5 | <0.1 | 161 | 0.26 | 0.052 | 3 |
| LRS 12 LH 79 | Soil | 0.6 | 82.5 | 2.3 | 52 | 0.1 | 36.9 | 17.5 | 381 | 5.14 | 5.3 | 13.1 | 0.7 | 17 | <0.1 | 0.5 | <0.1 | 182 | 0.20 | 0.049 | 3 |
| LRS 12 LH 80 | Soil | 1.2 | 104.4 | 1.5 | 32 | 0.2 | 24.7 | 13.0 | 270 | 4.48 | 5.1 | 20.6 | 1.1 | 9 | <0.1 | 0.3 | <0.1 | 114 | 0.16 | 0.098 | 4 |
| LRS 12 LH 81 | Soil | 0.5 | 51.8 | 2.9 | 74 | 0.1 | 37.0 | 22.5 | 379 | 5.51 | 3.3 | 37.4 | 0.6 | 19 | <0.1 | 0.4 | <0.1 | 201 | 0.25 | 0.060 | 4 |
| LRS 12 LH 82 | Soil | 0.7 | 109.2 | 3.0 | 53 | 0.1 | 32.3 | 18.5 | 535 | 4.57 | 3.0 | 7.2 | 0.4 | 22 | <0.1 | 0.4 | <0.1 | 187 | 0.36 | 0.043 | 3 |
| LRS 12 LH 83 | Soil | 1.0 | 112.4 | 5.9 | 28 | 0.1 | 15.3 | 8.8 | 403 | 6.33 | 3.3 | 4.0 | 0.4 | 13 | <0.1 | 0.4 | <0.1 | 267 | 0.19 | 0.105 | 2 |
| LRS 12 LH 84 | Soil | 1.0 | 120.5 | 3.6 | 38 | <0.1 | 35.0 | 22.5 | 927 | 5.40 | 2.8 | 16.7 | 0.4 | 24 | <0.1 | 0.4 | <0.1 | 292 | 0.74 | 0.065 | 3 |
| LH 85 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LH 86 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LH 87 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LH 88 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LH 89 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |

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Project: None Given
 Report Date: October 03, 2012

Page: 5 of 8

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004385.1

| Method | Analyte | 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 |
| 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 | 0.05 | 1 | 0.5 | 0.2 | |
| LH 60 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LRS 12 LH 61 | Soil | 61 | 0.89 | 42 | 0.142 | 6 | 3.72 | 0.009 | 0.02 | 0.1 | 0.24 | 10.7 | <0.1 | <0.05 | 11 | 0.9 | <0.2 |
| LRS 12 LH 62 | Soil | 44 | 0.39 | 30 | 0.285 | 1 | 2.42 | 0.008 | 0.02 | <0.1 | 0.19 | 4.9 | <0.1 | <0.05 | 16 | <0.5 | <0.2 |
| LRS 12 LH 63 | Soil | 77 | 0.93 | 27 | 0.135 | 3 | 3.86 | 0.005 | 0.03 | 0.1 | 0.15 | 6.4 | <0.1 | <0.05 | 11 | 1.0 | <0.2 |
| LRS 12 LH 64 | Soil | 98 | 1.50 | 44 | 0.073 | 3 | 2.71 | 0.007 | 0.04 | <0.1 | 0.06 | 10.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| LRS 12 LH 65 | Soil | 55 | 0.70 | 42 | 0.129 | 3 | 2.11 | 0.012 | 0.03 | <0.1 | 0.07 | 4.8 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| LRS 12 LH 66 | Soil | 37 | 0.41 | 12 | 0.234 | 1 | 1.59 | 0.015 | 0.02 | <0.1 | 0.05 | 3.5 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| LRS 12 LH 67 | Soil | 102 | 1.04 | 19 | 0.280 | 2 | 4.62 | 0.007 | 0.02 | 0.2 | 0.12 | 10.0 | <0.1 | <0.05 | 11 | 1.2 | <0.2 |
| LRS 12 LH 68 | Soil | 65 | 1.13 | 23 | 0.201 | 4 | 3.66 | 0.013 | 0.03 | <0.1 | 0.14 | 8.9 | <0.1 | <0.05 | 9 | 0.6 | <0.2 |
| LRS 12 LH 69 | Soil | 103 | 1.43 | 18 | 0.220 | 3 | 4.35 | 0.007 | 0.03 | 0.1 | 0.16 | 14.1 | <0.1 | <0.05 | 8 | 1.5 | <0.2 |
| LRS 12 LH 70 | Soil | 94 | 1.00 | 16 | 0.241 | 2 | 5.13 | 0.007 | 0.02 | <0.1 | 0.15 | 7.4 | <0.1 | <0.05 | 11 | 1.1 | <0.2 |
| LRS 12 LH 71 | Soil | 101 | 1.37 | 29 | 0.173 | 2 | 4.21 | 0.006 | 0.02 | <0.1 | 0.20 | 19.3 | <0.1 | <0.05 | 12 | 0.5 | <0.2 |
| LRS 12 LH 72 | Soil | 75 | 1.04 | 30 | 0.107 | 2 | 3.32 | 0.005 | 0.03 | 0.1 | 0.12 | 8.3 | <0.1 | <0.05 | 8 | 0.7 | <0.2 |
| LH 73 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LRS 12 LH 74 | Soil | 66 | 1.50 | 22 | 0.211 | 3 | 2.62 | 0.006 | 0.04 | 0.1 | 0.06 | 7.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| LH 75 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LRS 12 LH 76 | Soil | 69 | 0.83 | 28 | 0.203 | 2 | 3.16 | 0.005 | 0.03 | <0.1 | 0.12 | 5.8 | <0.1 | <0.05 | 11 | 0.5 | <0.2 |
| LRS 12 LH 77 | Soil | 77 | 0.98 | 28 | 0.121 | 2 | 3.95 | 0.005 | 0.03 | 0.1 | 0.21 | 9.1 | <0.1 | <0.05 | 9 | 1.1 | <0.2 |
| LRS 12 LH 78 | Soil | 88 | 1.55 | 25 | 0.208 | 3 | 3.53 | 0.005 | 0.04 | 0.1 | 0.13 | 8.2 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |
| LRS 12 LH 79 | Soil | 95 | 1.26 | 34 | 0.203 | 2 | 4.31 | 0.005 | 0.03 | 0.1 | 0.14 | 8.9 | <0.1 | <0.05 | 10 | 0.9 | <0.2 |
| LRS 12 LH 80 | Soil | 98 | 0.83 | 16 | 0.155 | 2 | 6.87 | 0.004 | 0.02 | 0.2 | 0.48 | 14.8 | <0.1 | <0.05 | 6 | 2.7 | <0.2 |
| LRS 12 LH 81 | Soil | 81 | 0.94 | 35 | 0.246 | 2 | 3.45 | 0.007 | 0.03 | 0.1 | 0.11 | 8.0 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| LRS 12 LH 82 | Soil | 66 | 0.86 | 31 | 0.234 | 2 | 2.42 | 0.006 | 0.02 | <0.1 | 0.10 | 6.1 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| LRS 12 LH 83 | Soil | 65 | 0.52 | 11 | 0.380 | 2 | 2.21 | 0.005 | 0.02 | <0.1 | 0.16 | 4.3 | <0.1 | <0.05 | 15 | <0.5 | <0.2 |
| LRS 12 LH 84 | Soil | 73 | 1.23 | 24 | 0.412 | 6 | 2.92 | 0.016 | 0.03 | <0.1 | 0.09 | 9.0 | <0.1 | <0.05 | 16 | <0.5 | <0.2 |
| LH 85 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LH 86 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LH 87 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LH 88 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LH 89 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |

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 Report Date: October 03, 2012

Page: 6 of 8

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004385.1

| Method Analyte | Unit | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-------------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| MDL | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | |
| | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 | |
| LH 90 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | |
| LL 12 AP-01 | Soil | 0.7 | 35.8 | 3.7 | 51 | <0.1 | 32.9 | 15.1 | 343 | 4.73 | 4.9 | 0.6 | 0.7 | 11 | <0.1 | 0.6 | <0.1 | 175 | 0.31 | 0.063 | 3 |
| LL 12 AP-02 | Soil | 1.6 | 19.0 | 3.9 | 42 | 0.2 | 34.3 | 11.7 | 277 | 4.18 | 3.7 | 1.2 | 0.4 | 14 | <0.1 | 0.6 | <0.1 | 155 | 0.36 | 0.039 | 3 |
| LL 12 AP-03 | Soil | 1.7 | 83.9 | 3.9 | 48 | 0.1 | 93.3 | 27.5 | 900 | 5.29 | 8.4 | 2.3 | 0.9 | 16 | 0.2 | 3.3 | <0.1 | 162 | 0.77 | 0.038 | 7 |
| LL 12 AP-04 | Soil | 1.4 | 52.2 | 3.7 | 38 | <0.1 | 61.6 | 23.6 | 513 | 4.54 | 5.5 | 1.4 | 0.8 | 11 | <0.1 | 2.3 | <0.1 | 163 | 0.32 | 0.052 | 4 |
| LL 12 AP-05 | Soil | 1.1 | 44.0 | 3.4 | 48 | <0.1 | 23.1 | 14.0 | 318 | 4.08 | 2.5 | 2.1 | 0.7 | 9 | 0.1 | 1.4 | <0.1 | 152 | 0.25 | 0.037 | 3 |
| LL 12 AP-06 | Soil | 1.8 | 39.3 | 5.1 | 82 | 0.2 | 46.7 | 19.0 | 307 | 5.17 | 11.0 | 3.7 | 0.8 | 11 | 0.3 | 0.7 | 0.1 | 163 | 0.46 | 0.055 | 4 |
| LL 12 AP-07 | Soil | 0.6 | 42.6 | 8.1 | 47 | 0.2 | 28.4 | 16.6 | 1671 | 3.90 | 7.3 | 2.2 | 0.5 | 12 | 0.1 | 0.4 | 0.1 | 151 | 0.30 | 0.060 | 3 |
| LL 12 AP-08 | Soil | 1.4 | 48.3 | 6.8 | 68 | 0.2 | 42.9 | 25.4 | 1124 | 3.74 | 12.0 | 2.7 | 0.6 | 9 | 0.3 | 0.4 | <0.1 | 131 | 0.30 | 0.052 | 3 |
| LL 12 AP-09 | Soil | 0.7 | 18.4 | 6.4 | 31 | <0.1 | 15.2 | 5.6 | 725 | 4.61 | 4.5 | 2.1 | 0.7 | 12 | 0.1 | 0.4 | 0.1 | 177 | 0.21 | 0.072 | 3 |
| LL 12 AP-10 | Soil | 0.2 | 8.1 | 21.0 | 21 | <0.1 | 14.6 | 4.8 | 2983 | 0.93 | 2.4 | 1.0 | <0.1 | 6 | 0.2 | 0.2 | 0.1 | 47 | 0.23 | 0.026 | 2 |
| LL 12 AP-11 | Soil | 0.8 | 30.6 | 5.4 | 49 | 0.1 | 19.6 | 11.4 | 488 | 3.66 | 4.7 | 6.9 | 0.6 | 9 | 0.2 | 0.4 | <0.1 | 134 | 0.23 | 0.032 | 3 |
| LL 12 AP-12 | Soil | 1.1 | 56.5 | 5.4 | 50 | 0.1 | 26.0 | 15.0 | 330 | 4.10 | 4.7 | 1.5 | 0.8 | 10 | 0.3 | 0.7 | <0.1 | 147 | 0.28 | 0.038 | 3 |
| LL 12 AP-13 | Soil | 0.4 | 27.4 | 4.7 | 64 | 0.2 | 18.2 | 12.9 | 2397 | 2.91 | 2.9 | 0.8 | 0.5 | 10 | 0.1 | 0.3 | <0.1 | 76 | 0.27 | 0.086 | 3 |
| AP-14 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| L1S 12 AP-15 | Soil | 1.2 | 43.7 | 4.0 | 50 | <0.1 | 24.5 | 14.1 | 605 | 3.79 | 4.1 | 1.9 | 0.8 | 10 | <0.1 | 0.3 | <0.1 | 137 | 0.34 | 0.040 | 4 |
| LCYSTD 19 | Rock Pulp | 6.8 | 37.2 | 3.7 | 49 | 0.5 | 32.3 | 13.0 | 512 | 3.04 | 5.5 | 750.1 | 1.1 | 36 | 0.2 | 0.8 | <0.1 | 60 | 0.83 | 0.045 | 5 |
| L1S 12 AP 16 | Soil | 0.7 | 74.8 | 3.1 | 47 | 0.1 | 43.8 | 18.0 | 697 | 4.88 | 6.9 | 5.3 | 0.9 | 7 | 0.1 | 2.0 | <0.1 | 150 | 0.27 | 0.052 | 6 |
| L1S 12 AP 17 | Soil | 0.4 | 42.7 | 2.9 | 54 | 0.2 | 94.1 | 25.5 | 829 | 4.83 | 2.4 | 15.8 | 0.4 | 3 | <0.1 | 0.9 | <0.1 | 161 | 0.07 | 0.038 | 4 |
| L1S 12 AP 18 | Soil | 0.4 | 42.6 | 3.0 | 52 | 0.1 | 44.7 | 15.8 | 590 | 3.82 | 7.1 | 3.4 | 0.7 | 16 | 0.1 | 2.0 | <0.1 | 117 | 0.53 | 0.041 | 4 |
| L1S 12 AP 19 | Soil | 0.4 | 59.9 | 4.2 | 41 | <0.1 | 61.5 | 21.2 | 1833 | 4.39 | 5.6 | 2.9 | 0.5 | 9 | <0.1 | 2.4 | <0.1 | 165 | 0.23 | 0.042 | 4 |
| L1S 12 AP 20 | Soil | 0.5 | 15.4 | 20.0 | 16 | <0.1 | 16.4 | 8.0 | 236 | 2.61 | 3.6 | 7.1 | 0.4 | 9 | <0.1 | 2.6 | <0.1 | 79 | 0.27 | 0.012 | 2 |
| L1S 12 AP 21 | Soil | 0.5 | 37.6 | 3.0 | 34 | 0.1 | 29.5 | 13.8 | 412 | 3.66 | 5.5 | 1.9 | 1.1 | 13 | <0.1 | 1.0 | <0.1 | 138 | 0.51 | 0.036 | 6 |
| L1S 12 AP 22 | Soil | 0.2 | 18.4 | 3.9 | 41 | <0.1 | 44.4 | 19.0 | 1100 | 3.36 | 2.6 | 1.0 | 0.5 | 26 | <0.1 | 0.5 | <0.1 | 124 | 0.41 | 0.055 | 3 |
| L1S 12 AP 23 | Soil | 0.4 | 42.9 | 5.6 | 42 | <0.1 | 38.3 | 16.9 | 1266 | 3.87 | 4.2 | 2.6 | 0.7 | 13 | 0.1 | 0.5 | <0.1 | 145 | 0.31 | 0.066 | 3 |
| L1S 12 AP 24 | Soil | 0.5 | 45.2 | 5.0 | 40 | <0.1 | 37.8 | 18.3 | 552 | 3.87 | 59.9 | 2.3 | 0.9 | 12 | <0.1 | 0.7 | <0.1 | 135 | 0.42 | 0.036 | 4 |
| L1S 12 AP 25 | Soil | 0.4 | 25.9 | 3.1 | 44 | <0.1 | 29.5 | 11.6 | 239 | 3.15 | 3.3 | 0.7 | 0.6 | 11 | <0.1 | 0.6 | <0.1 | 101 | 0.26 | 0.052 | 3 |
| L1S 12 AP 26 | Soil | 0.3 | 44.3 | 3.5 | 57 | <0.1 | 29.3 | 17.3 | 707 | 4.02 | 3.4 | 4.8 | 0.5 | 12 | <0.1 | 0.3 | <0.1 | 143 | 0.26 | 0.059 | 2 |
| L1S 12 AP 27 | Soil | 0.4 | 18.5 | 3.3 | 27 | <0.1 | 13.2 | 9.1 | 234 | 3.38 | 3.0 | 1.1 | 0.4 | 10 | <0.1 | 1.2 | <0.1 | 126 | 0.28 | 0.024 | 3 |
| AP 28 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |

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Project: None Given
 Report Date: October 03, 2012

Page: 6 of 8

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004385.1

| Method | Analyte | 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 | Ti | S | Ga | Se | Te |
| Unit | | ppm | % | 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 | 0.05 | 1 | 0.5 | 0.2 | |
| LH 90 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LL 12 AP-01 | Soil | 59 | 0.61 | 41 | 0.230 | 2 | 3.18 | 0.006 | 0.02 | 0.1 | 0.15 | 6.5 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| LL 12 AP-02 | Soil | 63 | 0.58 | 44 | 0.136 | 2 | 2.32 | 0.007 | 0.03 | <0.1 | 0.13 | 4.2 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| LL 12 AP-03 | Soil | 162 | 1.58 | 67 | 0.231 | 5 | 3.73 | 0.009 | 0.03 | 0.2 | 0.25 | 11.5 | <0.1 | <0.05 | 9 | 1.3 | <0.2 |
| LL 12 AP-04 | Soil | 80 | 0.96 | 35 | 0.225 | 3 | 3.53 | 0.005 | 0.02 | 0.2 | 0.21 | 8.4 | <0.1 | <0.05 | 8 | 0.5 | <0.2 |
| LL 12 AP-05 | Soil | 48 | 0.41 | 29 | 0.229 | 2 | 2.92 | 0.006 | 0.02 | 0.2 | 0.07 | 6.0 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| LL 12 AP-06 | Soil | 87 | 0.43 | 67 | 0.195 | 2 | 3.68 | 0.006 | 0.03 | <0.1 | 0.14 | 5.2 | <0.1 | <0.05 | 9 | 0.7 | <0.2 |
| LL 12 AP-07 | Soil | 74 | 0.50 | 72 | 0.129 | 1 | 2.84 | 0.005 | 0.03 | <0.1 | 0.10 | 3.5 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| LL 12 AP-08 | Soil | 78 | 0.55 | 62 | 0.143 | 2 | 2.84 | 0.005 | 0.03 | <0.1 | 0.13 | 4.9 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| LL 12 AP-09 | Soil | 77 | 0.31 | 29 | 0.134 | <1 | 2.26 | 0.004 | 0.02 | <0.1 | 0.09 | 3.4 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| LL 12 AP-10 | Soil | 61 | 0.14 | 60 | 0.062 | <1 | 0.80 | 0.005 | 0.04 | <0.1 | 0.08 | 1.9 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| LL 12 AP-11 | Soil | 43 | 0.35 | 50 | 0.103 | 1 | 2.23 | 0.006 | 0.02 | <0.1 | 0.14 | 3.5 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| LL 12 AP-12 | Soil | 50 | 0.58 | 54 | 0.154 | 1 | 3.54 | 0.005 | 0.02 | <0.1 | 0.13 | 4.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| LL 12 AP-13 | Soil | 34 | 0.35 | 83 | 0.060 | 1 | 2.41 | 0.006 | 0.04 | <0.1 | 0.14 | 3.7 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| AP-14 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LLS 12 AP-15 | Soil | 42 | 0.50 | 60 | 0.144 | 2 | 2.80 | 0.006 | 0.04 | <0.1 | 0.10 | 5.2 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| LCYSTD 19 | Rock Pulp | 38 | 0.75 | 118 | 0.108 | 4 | 1.53 | 0.127 | 0.15 | 27.8 | 0.04 | 5.5 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| LLS 12 AP 16 | Soil | 70 | 0.61 | 71 | 0.110 | 2 | 2.57 | 0.007 | 0.03 | 0.1 | 0.48 | 11.5 | <0.1 | <0.05 | 7 | 1.0 | <0.2 |
| LLS 12 AP 17 | Soil | 221 | 1.08 | 53 | 0.008 | <1 | 1.94 | 0.005 | 0.03 | <0.1 | 0.33 | 9.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| LLS 12 AP 18 | Soil | 53 | 0.64 | 59 | 0.085 | 3 | 2.83 | 0.008 | 0.03 | <0.1 | 0.12 | 5.7 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| LLS 12 AP 19 | Soil | 203 | 1.74 | 54 | 0.034 | 2 | 3.10 | 0.006 | 0.03 | <0.1 | 0.10 | 9.9 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| LLS 12 AP 20 | Soil | 33 | 0.24 | 33 | 0.047 | <1 | 1.14 | 0.005 | 0.02 | <0.1 | 0.09 | 2.5 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| LLS 12 AP 21 | Soil | 53 | 0.47 | 55 | 0.118 | 2 | 3.10 | 0.008 | 0.04 | <0.1 | 0.15 | 6.2 | <0.1 | <0.05 | 8 | 0.5 | <0.2 |
| LLS 12 AP 22 | Soil | 155 | 1.16 | 60 | 0.147 | <1 | 1.86 | 0.006 | 0.03 | <0.1 | 0.07 | 4.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| LLS 12 AP 23 | Soil | 95 | 0.83 | 54 | 0.165 | 1 | 2.94 | 0.006 | 0.03 | <0.1 | 0.07 | 5.1 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| LLS 12 AP 24 | Soil | 54 | 0.63 | 73 | 0.097 | 2 | 3.02 | 0.007 | 0.03 | <0.1 | 0.09 | 6.0 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| LLS 12 AP 25 | Soil | 69 | 0.62 | 46 | 0.098 | <1 | 3.09 | 0.005 | 0.03 | <0.1 | 0.06 | 3.6 | 0.1 | <0.05 | 8 | <0.5 | <0.2 |
| LLS 12 AP 26 | Soil | 96 | 1.21 | 45 | 0.103 | <1 | 3.23 | 0.005 | 0.03 | <0.1 | 0.08 | 6.1 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| LLS 12 AP 27 | Soil | 35 | 0.51 | 52 | 0.016 | 1 | 1.85 | 0.006 | 0.03 | <0.1 | 0.16 | 4.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| AP 28 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |

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Project: None Given
 Report Date: October 03, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004385.1

| Method Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | % | % | % | ppm | |
| | | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 | |
| AP 29 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| AP 30 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LRS AP 46 | Soil | | 0.7 | 134.0 | 1.8 | 77 | 0.2 | 52.0 | 23.6 | 525 | 8.06 | 10.5 | 5.8 | 0.6 | 8 | <0.1 | 0.7 | <0.1 | 241 | 0.16 | 0.052 | 5 |
| LRS AP 47 | Soil | | 0.8 | 194.2 | 2.2 | 80 | 0.2 | 58.1 | 40.1 | 3388 | 7.13 | 10.1 | 13.7 | 0.2 | 23 | 0.2 | 0.6 | <0.1 | 243 | 0.96 | 0.057 | 6 |
| LRS AP 48 | Soil | | 0.8 | 108.8 | 2.2 | 63 | 0.3 | 30.0 | 15.9 | 526 | 9.00 | 11.1 | 11.6 | 0.7 | 7 | 0.1 | 0.7 | <0.1 | 336 | 0.11 | 0.068 | 5 |
| LRS AP 49 | Soil | | 0.9 | 134.4 | 1.3 | 66 | 0.5 | 57.4 | 32.7 | 795 | 6.41 | 8.7 | 6.1 | 0.4 | 13 | 0.2 | 0.5 | <0.1 | 173 | 0.32 | 0.072 | 7 |
| LRS AP 50 | Soil | | 0.9 | 103.2 | 2.7 | 54 | 0.6 | 27.9 | 15.2 | 495 | 10.56 | 5.1 | 3.8 | 0.7 | 7 | 0.1 | 0.7 | <0.1 | 456 | 0.13 | 0.060 | 3 |
| LRS AP 51 | Soil | | 0.8 | 87.3 | 2.8 | 66 | 0.4 | 44.0 | 20.8 | 504 | 5.64 | 11.4 | 5.1 | 0.7 | 6 | <0.1 | 1.0 | <0.1 | 173 | 0.24 | 0.066 | 5 |
| LRS AP 52 | Soil | | 1.2 | 95.4 | 3.9 | 77 | 0.4 | 47.0 | 20.7 | 633 | 7.07 | 18.3 | 6.8 | 0.8 | 6 | 0.1 | 1.2 | <0.1 | 203 | 0.20 | 0.058 | 8 |
| LRS AP 53 | Soil | | 3.6 | 45.6 | 6.8 | 37 | 0.2 | 4.7 | 10.7 | 221 | 8.82 | 33.0 | 32.9 | 0.5 | 2 | <0.1 | 2.0 | 0.2 | 95 | 0.02 | 0.058 | 5 |
| LRS AP 54 | Soil | | 0.7 | 65.4 | 3.2 | 40 | 0.5 | 16.1 | 10.8 | 523 | 9.23 | 6.5 | 7.1 | 0.7 | 6 | <0.1 | 0.6 | <0.1 | 348 | 0.08 | 0.063 | 4 |
| LRS AP 55 | Soil | | 0.7 | 215.5 | 2.2 | 86 | 0.3 | 67.5 | 37.5 | 1627 | 9.42 | 9.1 | 9.1 | 0.6 | 10 | 0.2 | 0.6 | <0.1 | 300 | 0.25 | 0.068 | 5 |
| AP 56 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| AP 57 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| AP 58 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| AP 59 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| AP 60 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LRS 12 RP 46 | Soil | | 0.9 | 163.4 | 1.5 | 61 | 1.1 | 52.3 | 22.6 | 466 | 7.10 | 8.7 | 8.3 | 0.7 | 8 | <0.1 | 0.4 | <0.1 | 247 | 0.18 | 0.062 | 5 |
| LRS 12 RP 47 | Soil | | 0.8 | 186.1 | 1.5 | 61 | 0.9 | 50.8 | 22.1 | 437 | 7.08 | 8.5 | 8.7 | 0.7 | 8 | <0.1 | 0.4 | <0.1 | 249 | 0.17 | 0.061 | 5 |
| LRS 12 RP 48 | Soil | | 0.9 | 205.3 | 1.5 | 59 | 0.8 | 53.6 | 22.1 | 482 | 6.80 | 8.7 | 12.9 | 0.7 | 8 | <0.1 | 0.4 | <0.1 | 235 | 0.18 | 0.063 | 5 |
| LRS 12 RP 49 | Soil | | 0.6 | 151.8 | 4.7 | 74 | 0.5 | 28.2 | 23.3 | 774 | 7.35 | 7.7 | 15.5 | 1.1 | 9 | 0.2 | 0.9 | <0.1 | 129 | 0.16 | 0.104 | 5 |
| LRS 12 RP 50 | Soil | | 0.7 | 80.3 | 7.0 | 73 | 0.2 | 13.5 | 14.2 | 634 | 8.56 | 9.4 | 44.2 | 1.3 | 7 | 0.2 | 0.9 | 0.3 | 134 | 0.09 | 0.207 | 5 |
| LRS 12 RP 51 | Soil | | 0.6 | 471.7 | 6.5 | 92 | 0.2 | 47.4 | 34.9 | 1576 | 8.24 | 14.7 | 42.0 | 1.2 | 15 | 0.2 | 1.3 | <0.1 | 166 | 0.22 | 0.092 | 10 |
| LRS 12 RP 52 | Soil | | 0.8 | 92.4 | 3.6 | 78 | 0.6 | 30.7 | 20.2 | 1074 | 8.50 | 7.3 | 6.1 | 0.7 | 8 | <0.1 | 0.6 | <0.1 | 210 | 0.12 | 0.099 | 6 |
| RP 53 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 54 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 55 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 56 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 57 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 58 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |

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Project: None Given
 Report Date: October 03, 2012

Page: 7 of 8

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004385.1

| Method | Analyte | 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 | Ti | S | Ga | Se | Te |
| Unit | | ppm | % | 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 | 0.05 | 1 | 0.5 | 0.2 | |
| AP 29 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| AP 30 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LRS AP 46 | Soil | 98 | 1.47 | 26 | 0.340 | 3 | 6.04 | 0.006 | 0.02 | <0.1 | 0.18 | 13.8 | <0.1 | <0.05 | 14 | 1.1 | <0.2 |
| LRS AP 47 | Soil | 93 | 2.06 | 32 | 0.134 | 4 | 4.37 | 0.009 | 0.02 | <0.1 | 0.15 | 16.6 | <0.1 | <0.05 | 13 | 1.4 | <0.2 |
| LRS AP 48 | Soil | 104 | 0.70 | 19 | 0.316 | 2 | 5.46 | 0.006 | 0.02 | 0.1 | 0.24 | 14.1 | <0.1 | <0.05 | 15 | 1.9 | <0.2 |
| LRS AP 49 | Soil | 97 | 1.29 | 19 | 0.211 | 3 | 7.44 | 0.007 | 0.02 | <0.1 | 0.38 | 18.1 | <0.1 | <0.05 | 11 | 1.8 | <0.2 |
| LRS AP 50 | Soil | 96 | 0.78 | 15 | 0.638 | 2 | 4.97 | 0.005 | 0.02 | <0.1 | 0.28 | 11.0 | <0.1 | <0.05 | 20 | 1.3 | <0.2 |
| LRS AP 51 | Soil | 79 | 1.36 | 18 | 0.295 | 3 | 5.72 | 0.005 | 0.02 | 0.2 | 0.24 | 12.8 | <0.1 | <0.05 | 10 | 1.5 | <0.2 |
| LRS AP 52 | Soil | 82 | 1.39 | 41 | 0.277 | 3 | 4.88 | 0.005 | 0.03 | <0.1 | 0.16 | 10.3 | <0.1 | <0.05 | 13 | 1.0 | <0.2 |
| LRS AP 53 | Soil | 15 | 0.50 | 56 | 0.002 | 1 | 3.29 | 0.003 | 0.04 | <0.1 | 0.19 | 5.0 | <0.1 | <0.05 | 8 | 2.5 | <0.2 |
| LRS AP 54 | Soil | 81 | 0.43 | 17 | 0.272 | <1 | 4.42 | 0.005 | 0.02 | <0.1 | 0.28 | 9.4 | <0.1 | <0.05 | 18 | 1.2 | <0.2 |
| LRS AP 55 | Soil | 110 | 2.13 | 42 | 0.345 | 2 | 5.99 | 0.006 | 0.03 | <0.1 | 0.20 | 21.7 | <0.1 | <0.05 | 16 | 1.1 | <0.2 |
| AP 56 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| AP 57 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| AP 58 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| AP 59 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| AP 60 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LRS 12 RP 46 | Soil | 122 | 1.31 | 16 | 0.338 | 2 | 7.50 | 0.006 | 0.02 | <0.1 | 0.26 | 21.2 | <0.1 | <0.05 | 12 | 1.8 | <0.2 |
| LRS 12 RP 47 | Soil | 121 | 1.33 | 17 | 0.335 | 2 | 7.15 | 0.006 | 0.02 | <0.1 | 0.25 | 20.9 | <0.1 | <0.05 | 11 | 2.0 | <0.2 |
| LRS 12 RP 48 | Soil | 111 | 1.48 | 16 | 0.308 | 3 | 7.61 | 0.006 | 0.02 | <0.1 | 0.24 | 21.8 | <0.1 | <0.05 | 11 | 1.9 | <0.2 |
| LRS 12 RP 49 | Soil | 50 | 1.27 | 82 | 0.102 | 2 | 6.26 | 0.006 | 0.03 | <0.1 | 0.26 | 10.3 | <0.1 | <0.05 | 10 | 1.2 | <0.2 |
| LRS 12 RP 50 | Soil | 35 | 0.79 | 63 | 0.055 | <1 | 6.87 | 0.005 | 0.04 | 0.1 | 0.26 | 7.4 | <0.1 | <0.05 | 10 | 1.7 | <0.2 |
| LRS 12 RP 51 | Soil | 62 | 2.46 | 163 | 0.177 | 4 | 5.31 | 0.006 | 0.06 | 0.1 | 0.18 | 17.8 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| LRS 12 RP 52 | Soil | 97 | 0.83 | 42 | 0.220 | 2 | 5.89 | 0.006 | 0.02 | <0.1 | 0.28 | 13.7 | <0.1 | <0.05 | 13 | 1.6 | <0.2 |
| RP 53 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 54 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 55 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 56 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 57 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 58 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: None Given
 Report Date: October 03, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004385.1

| 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 | |
| RP 59 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 60 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LCYSTD-20 | Rock Pulp | 27.4 | 7817 | 5544 | >10000 | 74.1 | 35.0 | 49.8 | 438 | 5.55 | 53.0 | 608.7 | 4.0 | 30 | 66.9 | 76.0 | 9.6 | 60 | 0.80 | 0.051 | 10 |



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Project: None Given
Report Date: October 03, 2012

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CERTIFICATE OF ANALYSIS

VAN12004385.1

| Method | Analyte | 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 |
| 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 | 0.05 | 1 | 0.5 | 0.2 |
| RP 59 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| RP 60 | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| LCYSTD-20 | Rock Pulp | 35 | 1.02 | 78 | 0.117 | 4 | 1.61 | 0.078 | 0.20 | 33.2 | 1.89 | 4.4 | 2.1 | 2.73 | 9 | 4.6 <0.2 |



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Project: None Given
Report Date: October 03, 2012

Page: 1 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

VAN12004385.1

| 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 | | | | | | | | | | | | | | | | | | | | | |
| LRS 12 RP 08 | Soil | 0.9 | 68.4 | 4.1 | 43 | 0.6 | 18.3 | 14.7 | 651 | 9.21 | 17.9 | 4.7 | 0.4 | 8 | 0.1 | 1.0 | 0.1 | 226 | 0.12 | 0.081 | 4 |
| REP LRS 12 RP 08 | QC | 0.8 | 69.8 | 4.0 | 40 | 0.6 | 17.1 | 13.7 | 625 | 9.30 | 18.9 | 45.3 | 0.4 | 9 | 0.2 | 1.0 | <0.1 | 232 | 0.14 | 0.085 | 4 |
| LRS 12 RP 28 | Soil | 0.6 | 305.7 | 3.8 | 89 | 0.3 | 67.4 | 42.3 | 1743 | 9.02 | 6.7 | 2.6 | 0.5 | 29 | 0.3 | 0.7 | <0.1 | 269 | 0.83 | 0.057 | 7 |
| REP LRS 12 RP 28 | QC | 0.4 | 297.7 | 3.7 | 84 | 0.3 | 65.9 | 39.6 | 1709 | 8.74 | 7.1 | 5.5 | 0.4 | 28 | 0.2 | 0.8 | <0.1 | 264 | 0.81 | 0.061 | 7 |
| LRS 12 RP 38 | Soil | 0.7 | 152.4 | 4.1 | 54 | 0.4 | 41.9 | 22.3 | 679 | 7.39 | 75.4 | 6.1 | 0.6 | 13 | 0.2 | 0.5 | <0.1 | 239 | 0.24 | 0.076 | 5 |
| REP LRS 12 RP 38 | QC | 0.8 | 145.6 | 4.2 | 53 | 0.4 | 40.0 | 21.4 | 671 | 7.12 | 74.2 | 4.7 | 0.6 | 13 | 0.2 | 0.5 | <0.1 | 230 | 0.23 | 0.074 | 5 |
| LLS 12 LH-45 | Soil | 0.7 | 13.2 | 6.8 | 52 | <0.1 | 7.9 | 6.5 | 1128 | 3.03 | 2.7 | 3.0 | 0.7 | 15 | <0.1 | 0.3 | 0.1 | 95 | 0.23 | 0.167 | 3 |
| REP LLS 12 LH-45 | QC | 0.6 | 12.9 | 6.6 | 52 | <0.1 | 8.1 | 6.4 | 1141 | 2.99 | 2.5 | 1.4 | 0.7 | 14 | <0.1 | 0.2 | <0.1 | 92 | 0.22 | 0.163 | 3 |
| LRS 12 LH-55 | Soil | 0.6 | 74.7 | 3.4 | 55 | 0.2 | 21.8 | 12.8 | 287 | 5.23 | 4.1 | 10.8 | 0.5 | 22 | <0.1 | 1.7 | 0.2 | 193 | 0.25 | 0.037 | 3 |
| REP LRS 12 LH-55 | QC | 0.6 | 71.3 | 3.4 | 54 | 0.2 | 21.3 | 12.4 | 272 | 5.04 | 3.8 | 9.1 | 0.5 | 23 | <0.1 | 1.7 | 0.2 | 190 | 0.26 | 0.036 | 3 |
| LRS 12 LH 67 | Soil | 1.1 | 113.4 | 2.7 | 55 | <0.1 | 34.3 | 16.6 | 319 | 6.13 | 6.2 | 18.1 | 0.8 | 15 | <0.1 | 0.5 | <0.1 | 226 | 0.23 | 0.096 | 3 |
| REP LRS 12 LH 67 | QC | 1.1 | 114.0 | 2.7 | 53 | <0.1 | 34.3 | 16.8 | 320 | 6.34 | 5.8 | 20.6 | 0.8 | 16 | <0.1 | 0.5 | <0.1 | 223 | 0.23 | 0.104 | 3 |
| LL 12 AP-10 | Soil | 0.2 | 8.1 | 21.0 | 21 | <0.1 | 14.6 | 4.8 | 2983 | 0.93 | 2.4 | 1.0 | <0.1 | 6 | 0.2 | 0.2 | 0.1 | 47 | 0.23 | 0.026 | 2 |
| REP LL 12 AP-10 | QC | 0.2 | 8.3 | 21.0 | 21 | <0.1 | 13.7 | 4.8 | 2938 | 0.92 | 2.3 | 2.8 | <0.1 | 6 | 0.2 | 0.2 | 0.1 | 46 | 0.22 | 0.026 | 2 |
| LLS 12 AP 21 | Soil | 0.5 | 37.6 | 3.0 | 34 | 0.1 | 29.5 | 13.8 | 412 | 3.66 | 5.5 | 1.9 | 1.1 | 13 | <0.1 | 1.0 | <0.1 | 138 | 0.51 | 0.036 | 6 |
| REP LLS 12 AP 21 | QC | 0.4 | 38.1 | 3.0 | 34 | 0.1 | 30.0 | 13.7 | 393 | 3.65 | 5.2 | 2.9 | 1.1 | 13 | <0.1 | 1.0 | <0.1 | 129 | 0.49 | 0.033 | 5 |
| LCYSTD-20 | Rock Pulp | 27.4 | 7817 | 5544 | >10000 | 74.1 | 35.0 | 49.8 | 438 | 5.55 | 53.0 | 608.7 | 4.0 | 30 | 66.9 | 76.0 | 9.6 | 60 | 0.80 | 0.051 | 10 |
| REP LCYSTD-20 | QC | 31.1 | 7810 | 5203 | >10000 | 73.3 | 34.6 | 49.0 | 451 | 4.73 | 52.4 | 661.0 | 4.1 | 30 | 63.3 | 78.6 | 8.8 | 60 | 0.83 | 0.051 | 10 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 13.9 | 107.1 | 121.7 | 294 | 1.7 | 39.9 | 7.6 | 551 | 2.30 | 23.3 | 150.1 | 7.1 | 75 | 2.4 | 5.6 | 5.7 | 42 | 0.75 | 0.079 | 15 |
| STD DS9 | Standard | 12.4 | 98.4 | 117.3 | 285 | 1.8 | 37.5 | 7.0 | 549 | 2.20 | 25.2 | 110.8 | 6.3 | 67 | 2.1 | 4.9 | 5.8 | 38 | 0.71 | 0.076 | 13 |
| STD DS9 | Standard | 12.8 | 104.8 | 124.3 | 313 | 1.9 | 40.2 | 7.4 | 586 | 2.37 | 25.5 | 123.2 | 6.3 | 64 | 2.5 | 5.9 | 5.1 | 41 | 0.73 | 0.081 | 13 |
| STD DS9 | Standard | 13.5 | 96.6 | 122.9 | 296 | 1.9 | 41.2 | 7.6 | 587 | 2.33 | 22.2 | 121.3 | 5.4 | 74 | 2.0 | 4.7 | 4.9 | 39 | 0.75 | 0.070 | 11 |
| STD DS9 | Standard | 13.3 | 101.0 | 124.8 | 301 | 1.8 | 41.8 | 7.9 | 620 | 2.51 | 23.4 | 122.4 | 5.1 | 68 | 1.9 | 4.6 | 5.0 | 37 | 0.70 | 0.072 | 11 |
| 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 | 0.6 | <0.1 | <1 | <0.1 | 0.1 | <0.1 | 2 | 0.03 | <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 | 0.7 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |



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Project: None Given
 Report Date: October 03, 2012

Page: 1 of 2

Part: 2 of 1

QUALITY CONTROL REPORT

VAN12004385.1

| Method | 1DX15 | 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 | | | | | | | | | | | | | | | | | |
| LRS 12 RP 08 | Soil | 80 | 0.95 | 26 | 0.063 | 2 | 3.63 | 0.005 | 0.04 | <0.1 | 0.19 | 7.6 | <0.1 | <0.05 | 14 | 1.9 | <0.2 |
| REP LRS 12 RP 08 | QC | 79 | 0.90 | 26 | 0.062 | 2 | 3.69 | 0.006 | 0.04 | <0.1 | 0.19 | 7.3 | <0.1 | <0.05 | 15 | 1.4 | <0.2 |
| LRS 12 RP 28 | Soil | 108 | 2.38 | 59 | 0.330 | 7 | 4.48 | 0.012 | 0.02 | <0.1 | 0.14 | 23.5 | <0.1 | <0.05 | 15 | <0.5 | <0.2 |
| REP LRS 12 RP 28 | QC | 103 | 2.39 | 58 | 0.310 | 7 | 4.36 | 0.012 | 0.02 | <0.1 | 0.13 | 23.9 | <0.1 | <0.05 | 15 | 0.6 | <0.2 |
| LRS 12 RP 38 | Soil | 88 | 0.88 | 92 | 0.298 | 2 | 4.95 | 0.011 | 0.02 | <0.1 | 0.30 | 15.9 | <0.1 | <0.05 | 12 | 1.5 | <0.2 |
| REP LRS 12 RP 38 | QC | 86 | 0.93 | 93 | 0.280 | 3 | 4.86 | 0.011 | 0.02 | <0.1 | 0.28 | 14.7 | <0.1 | <0.05 | 12 | 1.4 | <0.2 |
| LLS 12 LH-45 | Soil | 23 | 0.20 | 71 | 0.075 | <1 | 2.25 | 0.005 | 0.03 | <0.1 | 0.10 | 3.1 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| REP LLS 12 LH-45 | QC | 23 | 0.19 | 70 | 0.068 | <1 | 2.26 | 0.005 | 0.03 | <0.1 | 0.10 | 2.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| LRS 12 LH-55 | Soil | 52 | 0.57 | 29 | 0.255 | 2 | 2.93 | 0.007 | 0.02 | <0.1 | 0.12 | 5.3 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| REP LRS 12 LH-55 | QC | 51 | 0.57 | 30 | 0.256 | 2 | 2.95 | 0.007 | 0.02 | <0.1 | 0.13 | 5.3 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| LRS 12 LH 67 | Soil | 102 | 1.04 | 19 | 0.280 | 2 | 4.62 | 0.007 | 0.02 | 0.2 | 0.12 | 10.0 | <0.1 | <0.05 | 11 | 1.2 | <0.2 |
| REP LRS 12 LH 67 | QC | 104 | 1.07 | 19 | 0.289 | 2 | 4.94 | 0.009 | 0.02 | 0.2 | 0.12 | 10.3 | <0.1 | <0.05 | 11 | 1.1 | <0.2 |
| LL 12 AP-10 | Soil | 61 | 0.14 | 60 | 0.062 | <1 | 0.80 | 0.005 | 0.04 | <0.1 | 0.08 | 1.9 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| REP LL 12 AP-10 | QC | 58 | 0.15 | 59 | 0.059 | <1 | 0.79 | 0.005 | 0.03 | <0.1 | 0.09 | 1.9 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| LLS 12 AP 21 | Soil | 53 | 0.47 | 55 | 0.118 | 2 | 3.10 | 0.008 | 0.04 | <0.1 | 0.15 | 6.2 | <0.1 | <0.05 | 8 | 0.5 | <0.2 |
| REP LLS 12 AP 21 | QC | 50 | 0.44 | 53 | 0.110 | 2 | 2.78 | 0.008 | 0.04 | <0.1 | 0.14 | 5.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| LCYSTD-20 | Rock Pulp | 35 | 1.02 | 78 | 0.117 | 4 | 1.61 | 0.078 | 0.20 | 33.2 | 1.89 | 4.4 | 2.1 | 2.73 | 9 | 4.6 | <0.2 |
| REP LCYSTD-20 | QC | 35 | 1.03 | 105 | 0.126 | 4 | 1.66 | 0.080 | 0.20 | 37.2 | 1.93 | 5.2 | 2.2 | 2.82 | 9 | 2.9 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 120 | 0.64 | 303 | 0.119 | 3 | 0.98 | 0.091 | 0.38 | 2.9 | 0.13 | 2.7 | 5.6 | 0.17 | 5 | 5.7 | 4.6 |
| STD DS9 | Standard | 110 | 0.58 | 297 | 0.100 | 2 | 0.86 | 0.087 | 0.38 | 3.0 | 0.20 | 2.6 | 5.0 | 0.09 | 5 | 5.0 | 4.7 |
| STD DS9 | Standard | 120 | 0.61 | 308 | 0.111 | 2 | 0.92 | 0.074 | 0.40 | 3.1 | 0.23 | 2.5 | 5.8 | 0.19 | 5 | 5.8 | 5.8 |
| STD DS9 | Standard | 145 | 0.62 | 267 | 0.091 | 2 | 0.95 | 0.084 | 0.39 | 3.2 | 0.22 | 2.6 | 5.5 | 0.11 | 5 | 5.2 | 4.9 |
| STD DS9 | Standard | 142 | 0.60 | 291 | 0.084 | 3 | 0.93 | 0.083 | 0.39 | 3.1 | 0.21 | 2.5 | 5.8 | 0.09 | 5 | 5.2 | 5.3 |
| 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 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |



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Project: None Given

Report Date: October 03, 2012

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Part: 1 of 1

QUALITY CONTROL REPORT

VAN12004385.1

| | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | 2 | <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 | 0.4 | <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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 2446 Bidston Road
 Mill Bay BC V0R 2P4 Canada

Project: None Given
Report Date: October 03, 2012

Page: 2 of 2

Part: 2 of 1

QUALITY CONTROL REPORT

VAN12004385.1

| | | 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 |



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2446 Bidston Road
Mill Bay BC V0R 2P4 CANADA

Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: November 29, 2012
Report Date: December 06, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN12005600.1

CLIENT JOB INFORMATION

Project: Lacy
Shipment ID:
P.O. Number
Number of Samples: 26

SAMPLE DISPOSAL

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

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

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

CC: Kelly Wynne

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|-------------|-------------------|--|--------------|---------------|-----|
| Dry at 60C | 26 | Dry at 60C | | | VAN |
| SS80 | 26 | Dry at 60C sieve 100g to -80 mesh | | | VAN |
| 1DX2 | 26 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. 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
Report Date: December 06, 2012

Page: 2 of 2

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12005600.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|--------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | % | % | ppm | |
| MDL | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | ppm | |
| LA-12 JT-001 | Soil | 6.3 | 50.9 | 10.1 | 428 | <0.1 | 21.1 | 33.9 | 1523 | 4.97 | 1.6 | 4.3 | 0.6 | 22 | 1.0 | 0.3 | 0.7 | 88 | 0.93 | 0.063 | 11 |
| LA-12 JT-003 | Soil | 0.5 | 12.5 | 5.1 | 109 | <0.1 | 137.4 | 37.3 | 3139 | 6.03 | 2.3 | <0.5 | 0.5 | 27 | 0.1 | 0.2 | 0.4 | 136 | 0.32 | 0.072 | 3 |
| LA-12 JT-004 | Soil | 0.5 | 60.5 | 4.0 | 59 | <0.1 | 48.1 | 25.0 | 1407 | 4.52 | 2.9 | 2.3 | 0.8 | 14 | <0.1 | 0.4 | 0.1 | 114 | 0.31 | 0.078 | 5 |
| LA-12 JT-005 | Soil | 0.5 | 30.0 | 5.1 | 63 | <0.1 | 27.7 | 17.3 | 978 | 3.99 | 3.4 | 0.9 | 0.6 | 18 | <0.1 | 0.7 | <0.1 | 114 | 0.29 | 0.070 | 4 |
| LA-12 JT-006 | Soil | 0.6 | 87.5 | 5.5 | 47 | <0.1 | 30.3 | 16.0 | 406 | 4.20 | 4.7 | 70.6 | 1.3 | 10 | <0.1 | 0.7 | <0.1 | 104 | 0.21 | 0.028 | 4 |
| LA-12 JT-007 | Soil | 0.3 | 13.1 | 3.8 | 171 | <0.1 | 10.5 | 7.4 | 546 | 1.98 | 0.8 | <0.5 | 0.4 | 15 | 0.3 | <0.1 | <0.1 | 68 | 0.28 | 0.032 | 3 |
| LA-12 JT-008 | Soil | 0.2 | 11.5 | 3.9 | 39 | <0.1 | 7.7 | 5.8 | 793 | 2.06 | 1.3 | 4.1 | 0.4 | 12 | <0.1 | 0.2 | <0.1 | 69 | 0.24 | 0.063 | 2 |
| LA-12 JT-009 | Soil | 0.4 | 24.3 | 4.1 | 91 | <0.1 | 18.2 | 10.5 | 337 | 3.46 | 2.4 | <0.5 | 0.7 | 11 | 0.2 | 0.2 | <0.1 | 109 | 0.26 | 0.067 | 3 |
| LA-12 JT-010 | Soil | 0.9 | 22.1 | 5.6 | 40 | <0.1 | 12.8 | 10.8 | 348 | 3.32 | 2.2 | 2.2 | 0.7 | 10 | <0.1 | 0.2 | 0.1 | 96 | 0.30 | 0.040 | 4 |
| LA-12 JT-011 | Soil | 0.6 | 56.6 | 5.4 | 44 | 0.1 | 24.1 | 13.0 | 587 | 3.22 | 3.5 | <0.5 | 0.9 | 11 | <0.1 | 0.2 | <0.1 | 98 | 0.31 | 0.069 | 4 |
| LA-12 JT-012 | Soil | 0.6 | 24.0 | 6.4 | 58 | 0.2 | 21.2 | 13.9 | 512 | 3.44 | 2.4 | 11.7 | 0.8 | 16 | <0.1 | 0.1 | <0.1 | 101 | 0.39 | 0.117 | 4 |
| LA-12 JT-013 | Soil | 0.6 | 34.8 | 5.2 | 46 | <0.1 | 16.7 | 9.5 | 601 | 2.97 | 2.4 | 2.8 | 0.9 | 10 | <0.1 | 0.1 | <0.1 | 89 | 0.25 | 0.074 | 3 |
| LA-12 PS-001 | Soil | 0.7 | 29.8 | 5.7 | 48 | <0.1 | 32.2 | 13.4 | 730 | 3.20 | 2.8 | <0.5 | 0.8 | 12 | <0.1 | 0.2 | <0.1 | 96 | 0.26 | 0.094 | 3 |
| LA-12 PS-002 | Soil | 1.0 | 24.6 | 5.7 | 28 | <0.1 | 30.0 | 13.5 | 304 | 3.45 | 3.1 | 0.7 | 0.7 | 15 | <0.1 | 0.4 | <0.1 | 111 | 0.54 | 0.034 | 5 |
| LA-12 PS-004 | Soil | 2.0 | 28.9 | 8.7 | 61 | 0.2 | 100.4 | 25.5 | 450 | 5.36 | 6.8 | <0.5 | 1.3 | 31 | <0.1 | 0.4 | 0.1 | 207 | 0.30 | 0.056 | 11 |
| LA-12 PS-005 | Soil | 1.7 | 60.4 | 4.5 | 55 | 0.1 | 105.9 | 33.9 | 279 | 5.26 | 12.6 | 1.5 | 1.1 | 11 | 0.1 | 4.4 | <0.1 | 131 | 0.25 | 0.037 | 7 |
| LA-12 PS-006 | Soil | 1.1 | 21.1 | 4.6 | 30 | <0.1 | 28.7 | 13.6 | 485 | 4.07 | 2.6 | 2.1 | 0.7 | 15 | <0.1 | 0.4 | <0.1 | 112 | 0.72 | 0.033 | 4 |
| LA-12 PS-007 | Soil | 0.2 | 10.4 | 5.5 | 34 | 0.2 | 9.7 | 5.1 | 531 | 2.31 | 1.5 | <0.5 | 0.4 | 13 | <0.1 | 0.2 | <0.1 | 72 | 0.27 | 0.062 | 3 |
| LA-12 PS-008 | Soil | 0.5 | 29.6 | 3.9 | 41 | 0.2 | 29.0 | 11.7 | 803 | 3.18 | 2.5 | <0.5 | 0.8 | 13 | <0.1 | 0.3 | <0.1 | 91 | 0.57 | 0.054 | 5 |
| LA-12 PS-009 | Soil | 0.7 | 28.8 | 3.8 | 34 | <0.1 | 17.3 | 12.3 | 464 | 2.92 | 2.3 | <0.5 | 1.0 | 9 | <0.1 | 0.3 | <0.1 | 85 | 0.32 | 0.066 | 4 |
| LA-12 PS-010 | Soil | 0.5 | 18.2 | 5.4 | 37 | <0.1 | 14.9 | 6.6 | 188 | 3.23 | 1.0 | 1.5 | 0.5 | 19 | <0.1 | 0.3 | <0.1 | 96 | 0.25 | 0.048 | 3 |
| LA-12 PS-011 | Soil | 0.4 | 11.0 | 6.6 | 23 | <0.1 | 6.7 | 3.3 | 101 | 2.91 | 2.0 | 0.6 | 0.7 | 14 | <0.1 | 0.2 | <0.1 | 101 | 0.19 | 0.094 | 3 |
| LA-12 PS-012 | Soil | 0.8 | 24.9 | 7.6 | 52 | <0.1 | 14.3 | 6.4 | 158 | 3.73 | 3.0 | <0.5 | 0.9 | 11 | <0.1 | 0.3 | <0.1 | 98 | 0.20 | 0.117 | 3 |
| LA-12 PS-013 | Soil | 1.1 | 26.3 | 6.9 | 30 | <0.1 | 23.7 | 12.3 | 193 | 3.73 | 2.3 | 1.3 | 0.8 | 12 | <0.1 | 0.2 | <0.1 | 115 | 0.35 | 0.040 | 4 |
| LA-12 PS-014 | Soil | 1.9 | 34.3 | 3.6 | 49 | <0.1 | 37.0 | 13.9 | 212 | 6.32 | 5.9 | <0.5 | 0.3 | 15 | 0.2 | 3.0 | <0.1 | 159 | 0.23 | 0.039 | 3 |
| LA-12 PS-015 | Soil | 0.9 | 6.5 | 4.4 | 24 | <0.1 | 8.9 | 4.3 | 85 | 3.56 | 1.1 | 0.8 | 0.4 | 12 | <0.1 | 0.4 | <0.1 | 118 | 0.15 | 0.015 | 3 |



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Project: Lacy
 Report Date: December 06, 2012

Page: 2 of 2

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12005600.1

| Method | Analyte | 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 |
| Unit | | ppm | % | 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 | 0.05 | 1 | 0.5 | 0.2 | |
| LA-12 JT-001 | Soil | 37 | 0.41 | 130 | 0.092 | 3 | 2.51 | 0.009 | 0.03 | <0.1 | 0.22 | 5.5 | <0.1 | 0.09 | 5 | 2.0 | 0.7 |
| LA-12 JT-003 | Soil | 455 | 3.14 | 62 | 0.149 | 1 | 3.04 | 0.004 | 0.02 | <0.1 | 0.08 | 10.1 | <0.1 | <0.05 | 8 | <0.5 | 1.0 |
| LA-12 JT-004 | Soil | 86 | 1.19 | 102 | 0.120 | 2 | 3.01 | 0.009 | 0.03 | <0.1 | 0.11 | 8.3 | <0.1 | <0.05 | 8 | <0.5 | 0.3 |
| LA-12 JT-005 | Soil | 76 | 1.01 | 116 | 0.067 | <1 | 2.57 | 0.009 | 0.03 | 0.1 | 0.04 | 6.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| LA-12 JT-006 | Soil | 65 | 1.13 | 98 | 0.096 | 2 | 3.16 | 0.010 | 0.04 | <0.1 | 0.11 | 7.7 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| LA-12 JT-007 | Soil | 33 | 0.37 | 42 | 0.088 | <1 | 1.19 | 0.007 | 0.02 | <0.1 | 0.06 | 3.1 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| LA-12 JT-008 | Soil | 23 | 0.27 | 30 | 0.108 | <1 | 1.45 | 0.008 | 0.02 | <0.1 | 0.11 | 2.8 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| LA-12 JT-009 | Soil | 42 | 0.44 | 65 | 0.169 | 2 | 2.41 | 0.008 | 0.02 | <0.1 | 0.09 | 3.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| LA-12 JT-010 | Soil | 27 | 0.29 | 62 | 0.156 | 1 | 2.31 | 0.009 | 0.02 | <0.1 | 0.09 | 3.9 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |
| LA-12 JT-011 | Soil | 44 | 0.62 | 71 | 0.154 | 2 | 2.53 | 0.011 | 0.03 | <0.1 | 0.13 | 5.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| LA-12 JT-012 | Soil | 41 | 0.38 | 64 | 0.145 | 1 | 2.35 | 0.008 | 0.03 | <0.1 | 0.07 | 3.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| LA-12 JT-013 | Soil | 31 | 0.37 | 58 | 0.139 | 2 | 2.24 | 0.009 | 0.02 | <0.1 | 0.07 | 4.0 | <0.1 | <0.05 | 6 | 0.6 | <0.2 |
| LA-12 PS-001 | Soil | 55 | 0.51 | 78 | 0.152 | 1 | 2.35 | 0.008 | 0.03 | <0.1 | 0.08 | 3.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| LA-12 PS-002 | Soil | 47 | 0.40 | 63 | 0.164 | 1 | 2.50 | 0.009 | 0.02 | <0.1 | 0.08 | 3.6 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| LA-12 PS-004 | Soil | 256 | 2.23 | 88 | 0.383 | 2 | 3.11 | 0.006 | 0.02 | 0.5 | 0.07 | 7.2 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| LA-12 PS-005 | Soil | 140 | 0.62 | 173 | 0.038 | 2 | 3.45 | 0.007 | 0.04 | 0.1 | 0.38 | 9.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| LA-12 PS-006 | Soil | 55 | 0.37 | 51 | 0.206 | 2 | 2.94 | 0.010 | 0.02 | <0.1 | 0.08 | 5.1 | <0.1 | <0.05 | 8 | 0.8 | <0.2 |
| LA-12 PS-007 | Soil | 25 | 0.23 | 54 | 0.102 | <1 | 1.33 | 0.005 | 0.03 | <0.1 | 0.08 | 2.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| LA-12 PS-008 | Soil | 36 | 0.40 | 71 | 0.152 | 2 | 2.62 | 0.015 | 0.02 | <0.1 | 0.08 | 4.1 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| LA-12 PS-009 | Soil | 33 | 0.27 | 43 | 0.163 | 1 | 2.54 | 0.009 | 0.02 | <0.1 | 0.12 | 3.6 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| LA-12 PS-010 | Soil | 38 | 0.29 | 41 | 0.174 | <1 | 1.68 | 0.006 | 0.01 | <0.1 | 0.04 | 2.9 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| LA-12 PS-011 | Soil | 23 | 0.16 | 26 | 0.128 | <1 | 1.62 | 0.005 | 0.02 | <0.1 | 0.05 | 3.0 | <0.1 | <0.05 | 11 | <0.5 | <0.2 |
| LA-12 PS-012 | Soil | 36 | 0.31 | 49 | 0.154 | <1 | 2.38 | 0.011 | 0.02 | <0.1 | 0.08 | 3.8 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| LA-12 PS-013 | Soil | 45 | 0.43 | 47 | 0.232 | 1 | 2.55 | 0.008 | 0.02 | <0.1 | 0.05 | 4.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| LA-12 PS-014 | Soil | 60 | 0.56 | 79 | 0.009 | 2 | 2.38 | 0.004 | 0.02 | <0.1 | 0.13 | 8.6 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| LA-12 PS-015 | Soil | 33 | 0.28 | 42 | 0.086 | <1 | 1.89 | 0.004 | 0.03 | <0.1 | 0.03 | 3.7 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |



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Project: Lacy
Report Date: December 06, 2012

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

VAN12005600.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | % | % | ppm | |
| MDL | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| LA-12 PS-005 | Soil | 1.7 | 60.4 | 4.5 | 55 | 0.1 | 105.9 | 33.9 | 279 | 5.26 | 12.6 | 1.5 | 1.1 | 11 | 0.1 | 4.4 | <0.1 | 131 | 0.25 | 0.037 | 7 |
| REP LA-12 PS-005 | QC | 1.5 | 58.0 | 4.3 | 53 | 0.1 | 102.6 | 32.6 | 274 | 5.16 | 12.0 | <0.5 | 1.0 | 11 | <0.1 | 4.2 | <0.1 | 126 | 0.26 | 0.035 | 7 |
| LA-12 PS-009 | Soil | 0.7 | 28.8 | 3.8 | 34 | <0.1 | 17.3 | 12.3 | 464 | 2.92 | 2.3 | <0.5 | 1.0 | 9 | <0.1 | 0.3 | <0.1 | 85 | 0.32 | 0.066 | 4 |
| REP LA-12 PS-009 | QC | 0.8 | 28.7 | 3.8 | 36 | <0.1 | 16.6 | 12.6 | 459 | 2.94 | 2.2 | 1.6 | 0.9 | 10 | <0.1 | 0.3 | <0.1 | 84 | 0.33 | 0.066 | 4 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 12.5 | 102.7 | 124.4 | 314 | 1.9 | 38.2 | 7.1 | 564 | 2.25 | 24.8 | 134.1 | 6.3 | 69 | 2.3 | 5.1 | 5.8 | 40 | 0.70 | 0.082 | 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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Project: Lacy
Report Date: December 06, 2012

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

VAN12005600.1

| Method | Analyte | 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 |
| 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 | | | | | | | | | | | | | | | | | |
| LA-12 PS-005 | Soil | 140 | 0.62 | 173 | 0.038 | 2 | 3.45 | 0.007 | 0.04 | 0.1 | 0.38 | 9.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| REP LA-12 PS-005 | QC | 138 | 0.62 | 176 | 0.036 | 2 | 3.47 | 0.006 | 0.04 | 0.1 | 0.39 | 9.6 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| LA-12 PS-009 | Soil | 33 | 0.27 | 43 | 0.163 | 1 | 2.54 | 0.009 | 0.02 | <0.1 | 0.12 | 3.6 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| REP LA-12 PS-009 | QC | 35 | 0.27 | 45 | 0.164 | <1 | 2.58 | 0.010 | 0.02 | <0.1 | 0.08 | 3.7 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 115 | 0.65 | 303 | 0.106 | 2 | 0.95 | 0.092 | 0.42 | 3.1 | 0.21 | 2.9 | 5.8 | 0.18 | 5 | 5.2 | 5.0 |
| 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 |



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Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
PHONE (604) 253-3158

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

Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: November 29, 2012
Report Date: December 11, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN12005602.1

CLIENT JOB INFORMATION

Project: Lacy
Shipment ID:
P.O. Number
Number of Samples: 13

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|-------------|-------------------|---|--------------|---------------|-----|
| R200-250 | 13 | Crush, split and pulverize 250 g rock to 200 mesh | | | VAN |
| 1DX2 | 13 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

SAMPLE DISPOSAL

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

ADDITIONAL COMMENTS

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

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

CC: Kelly Wynne



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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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 PHONE (604) 253-3158

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

Project: Lacy
Report Date: December 11, 2012

Page: 2 of 2

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12005602.1

| Method | Analyte | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 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 | % | ppb | ppb | ppm | 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 |
| G1 | Prep Blank | <0.01 | <0.1 | 2.3 | 2.8 | 51 | <0.1 | 3.9 | 4.6 | 639 | 2.03 | 1.3 | <0.5 | 5.3 | 60 | <0.1 | <0.1 | <0.1 | 37 | 0.51 | 0.082 |
| G1 | Prep Blank | <0.01 | 0.1 | 2.6 | 2.7 | 50 | <0.1 | 4.0 | 4.5 | 592 | 1.95 | 0.6 | 0.8 | 4.8 | 64 | <0.1 | <0.1 | <0.1 | 36 | 0.48 | 0.078 |
| 2107988 | Rock | 1.49 | 3.6 | 19.0 | 2.7 | 24 | <0.1 | 8.6 | 9.9 | 137 | 3.89 | <0.5 | 2.6 | 0.3 | 2 | <0.1 | 0.1 | 0.5 | 17 | 0.03 | 0.028 |
| 2107989 | Rock | 0.81 | 1.7 | 96.3 | 81.6 | 163 | 0.5 | 109.8 | 28.4 | 696 | 7.00 | 37.6 | 5.5 | 0.4 | 5 | 1.2 | 1.5 | <0.1 | 92 | 0.27 | 0.075 |
| 2107990 | Rock | 0.58 | 0.1 | 442.9 | 2.5 | 152 | 0.6 | 67.6 | 22.8 | 937 | 3.77 | 87.3 | 0.7 | 0.3 | 70 | 1.0 | 117.7 | <0.1 | 51 | 6.62 | 0.131 |
| 2107991 | Rock | 0.79 | 1.2 | 7.9 | 1.5 | 13 | <0.1 | 6.5 | 8.4 | 270 | 2.13 | 2.1 | 2.9 | 2.2 | 3 | <0.1 | 0.3 | 0.2 | 6 | 0.12 | 0.052 |
| 2107992 | Rock | 1.47 | 2.5 | 82.2 | 5.4 | 59 | <0.1 | 132.3 | 29.7 | 765 | 3.30 | 44.2 | 5.0 | 0.6 | 9 | 0.5 | 0.4 | <0.1 | 138 | 0.18 | 0.070 |
| 2107993 | Rock | 1.84 | 0.5 | 27.7 | 3.7 | 95 | <0.1 | 2.7 | 22.4 | 1537 | 5.99 | 13.5 | 9.5 | 1.3 | 8 | <0.1 | 2.1 | 0.1 | 66 | 0.33 | 0.154 |
| 2107994 | Rock | 1.85 | 0.4 | 1249 | 2.3 | 75 | 1.3 | 75.6 | 24.9 | 531 | 4.28 | 18.6 | 1.8 | <0.1 | 37 | 0.4 | 7.3 | <0.1 | 43 | 1.99 | 0.041 |
| 2107995 | Rock | 0.87 | 70.8 | 39.5 | 17.2 | 300 | 0.2 | 16.2 | 28.8 | 1106 | 22.28 | 4.3 | 36.5 | 0.3 | 3 | 0.5 | <0.1 | 4.8 | 46 | 0.27 | 0.028 |
| 2107996 | Rock | 2.63 | 2.2 | 70.7 | 4.5 | 107 | <0.1 | 75.6 | 39.3 | 1606 | 8.80 | 5.8 | 16.9 | 0.4 | 54 | <0.1 | 0.4 | 0.7 | 111 | 2.17 | 0.042 |
| 2107997 | Rock | 1.04 | 2.3 | 38.8 | 5.0 | 55 | <0.1 | 27.5 | 33.7 | 2185 | 4.90 | 17.6 | 2.2 | 0.9 | 16 | 0.2 | 3.5 | <0.1 | 31 | 0.29 | 0.135 |
| 2107998 | Rock | 1.78 | 3.4 | 40.9 | 5.7 | 46 | <0.1 | 21.9 | 12.3 | 1636 | 2.99 | 2.0 | <0.5 | 0.3 | 152 | 0.3 | 0.8 | <0.1 | 29 | 8.80 | 0.048 |
| 2107999 | Rock | 0.65 | <0.1 | 66.7 | 5.7 | 62 | <0.1 | 58.1 | 31.1 | 948 | 3.87 | 3.0 | 1.4 | 0.8 | 17 | 0.8 | 0.3 | <0.1 | 120 | 0.82 | 0.125 |
| 2108000 | Rock | 0.81 | 0.3 | 44.9 | 1.7 | 62 | <0.1 | 14.9 | 14.7 | 586 | 3.50 | 2.6 | 5.1 | 0.4 | 33 | <0.1 | 0.9 | <0.1 | 35 | 1.41 | 0.086 |



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 Mill Bay BC V0R 2P4 CANADA

Project: Lacy
Report Date: December 11, 2012

Page: 2 of 2

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12005602.1

| Method | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------|------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 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 | 0.01 | 0.01 | 0.1 | 0.01 | 0.05 | 1 | 0.5 | 0.2 |
| G1 | Prep Blank | 9 | 9 | 0.62 | 247 | 0.128 | <1 | 1.12 | 0.111 | 0.55 | <0.1 | <0.01 | 2.7 | 0.3 | <0.05 | 6 | <0.5 | <0.2 |
| G1 | Prep Blank | 9 | 9 | 0.60 | 245 | 0.121 | <1 | 1.06 | 0.099 | 0.53 | <0.1 | 0.01 | 2.6 | 0.3 | <0.05 | 5 | <0.5 | <0.2 |
| 2107988 | Rock | 2 | 6 | 0.51 | 50 | 0.113 | 2 | 0.65 | 0.003 | 0.20 | 0.2 | 0.03 | 2.2 | <0.1 | 3.04 | 2 | 6.2 | 1.6 |
| 2107989 | Rock | 7 | 104 | 1.69 | 84 | 0.004 | 4 | 3.31 | <0.001 | 0.13 | <0.1 | 0.06 | 5.9 | <0.1 | 0.16 | 8 | 1.5 | <0.2 |
| 2107990 | Rock | 2 | 24 | 0.85 | 28 | 0.002 | 8 | 0.70 | 0.010 | 0.30 | 0.6 | 9.76 | 7.2 | <0.1 | <0.05 | 1 | <0.5 | <0.2 |
| 2107991 | Rock | 11 | 3 | 0.22 | 123 | 0.002 | 1 | 0.61 | 0.040 | 0.21 | <0.1 | 0.22 | 1.8 | <0.1 | 0.71 | <1 | 0.8 | 0.8 |
| 2107992 | Rock | 5 | 280 | 2.97 | 96 | 0.005 | 3 | 2.71 | 0.010 | 0.05 | <0.1 | 0.10 | 12.0 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 2107993 | Rock | 14 | 2 | 1.42 | 99 | 0.003 | 5 | 2.54 | 0.019 | 0.18 | 0.2 | 0.20 | 4.9 | <0.1 | 0.16 | 6 | <0.5 | <0.2 |
| 2107994 | Rock | 2 | 55 | 0.83 | 137 | 0.004 | 7 | 0.77 | 0.008 | 0.15 | <0.1 | 0.55 | 6.7 | <0.1 | 0.11 | 2 | 0.7 | <0.2 |
| 2107995 | Rock | <1 | 25 | 2.51 | 10 | 0.074 | <1 | 2.14 | 0.002 | 0.06 | 0.1 | 0.28 | 3.8 | <0.1 | >10 | 4 | 23.5 | 8.6 |
| 2107996 | Rock | 2 | 179 | 3.41 | 36 | 0.075 | 3 | 3.40 | <0.001 | 0.09 | <0.1 | 0.03 | 9.5 | <0.1 | 5.13 | 7 | 4.7 | 2.2 |
| 2107997 | Rock | 8 | 12 | 0.04 | 152 | 0.002 | 5 | 0.78 | 0.021 | 0.14 | 0.2 | 0.69 | 8.3 | <0.1 | 0.10 | <1 | 1.1 | <0.2 |
| 2107998 | Rock | 4 | 13 | 1.19 | 53 | 0.002 | 4 | 0.64 | 0.025 | 0.08 | <0.1 | 0.06 | 6.8 | <0.1 | 0.07 | 1 | <0.5 | <0.2 |
| 2107999 | Rock | 13 | 74 | 1.49 | 52 | 0.005 | 2 | 1.91 | 0.048 | 0.05 | <0.1 | 0.26 | 14.3 | <0.1 | <0.05 | 7 | 0.7 | <0.2 |
| 2108000 | Rock | 2 | 7 | 0.61 | 119 | 0.001 | 6 | 1.44 | 0.046 | 0.09 | <0.1 | 0.12 | 5.2 | <0.1 | <0.05 | 4 | <0.5 | <0.2 |



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

Project: Lacy
 Report Date: December 11, 2012

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

VAN12005602.1

| Method | WGHT | 1DX15 | 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 | |
| Core Reject Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 2107989 | Rock | 0.81 | 1.7 | 96.3 | 81.6 | 163 | 0.5 | 109.8 | 28.4 | 696 | 7.00 | 37.6 | 5.5 | 0.4 | 5 | 1.2 | 1.5 | <0.1 | 92 | 0.27 | 0.075 |
| DUP 2107989 | QC | <0.01 | 1.6 | 99.9 | 87.5 | 167 | 0.5 | 97.9 | 27.7 | 674 | 6.91 | 37.7 | 6.1 | 0.5 | 5 | 1.0 | 1.5 | <0.1 | 89 | 0.27 | 0.077 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | | 12.2 | 112.6 | 130.5 | 325 | 2.0 | 42.6 | 7.9 | 570 | 2.37 | 26.8 | 115.4 | 6.4 | 67 | 2.3 | 5.1 | 6.2 | 39 | 0.74 | 0.089 |
| STD DS9 | Standard | | 13.3 | 119.1 | 139.9 | 343 | 2.1 | 45.0 | 8.0 | 574 | 2.49 | 28.6 | 122.8 | 7.0 | 66 | 2.5 | 5.2 | 6.8 | 42 | 0.75 | 0.094 |
| 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 | 0.7 | <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 | 2.3 | 2.8 | 51 | <0.1 | 3.9 | 4.6 | 639 | 2.03 | 1.3 | <0.5 | 5.3 | 60 | <0.1 | <0.1 | <0.1 | 37 | 0.51 | 0.082 |
| G1 | Prep Blank | <0.01 | 0.1 | 2.6 | 2.7 | 50 | <0.1 | 4.0 | 4.5 | 592 | 1.95 | 0.6 | 0.8 | 4.8 | 64 | <0.1 | <0.1 | <0.1 | 36 | 0.48 | 0.078 |



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

Project: Lacy
Report Date: December 11, 2012

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

VAN12005602.1

| 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 | |
| Core Reject Duplicates | | | | | | | | | | | | | | | | | | |
| 2107989 | Rock | 7 | 104 | 1.69 | 84 | 0.004 | 4 | 3.31 | <0.001 | 0.13 | <0.1 | 0.06 | 5.9 | <0.1 | 0.16 | 8 | 1.5 | <0.2 |
| DUP 2107989 | QC | 7 | 99 | 1.61 | 79 | 0.005 | 4 | 3.16 | <0.001 | 0.11 | <0.1 | 0.07 | 6.3 | <0.1 | 0.17 | 7 | 0.8 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 13 | 121 | 0.62 | 302 | 0.116 | 2 | 0.96 | 0.086 | 0.41 | 2.7 | 0.23 | 2.4 | 5.4 | 0.16 | 5 | 7.0 | 6.4 |
| STD DS9 | Standard | 13 | 132 | 0.65 | 314 | 0.117 | 5 | 1.01 | 0.089 | 0.41 | 3.3 | 0.22 | 2.9 | 6.0 | 0.17 | 5 | 6.4 | 5.7 |
| 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 | 0.03 | <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 | 9 | 9 | 0.62 | 247 | 0.128 | <1 | 1.12 | 0.111 | 0.55 | <0.1 | <0.01 | 2.7 | 0.3 | <0.05 | 6 | <0.5 | <0.2 |
| G1 | Prep Blank | 9 | 9 | 0.60 | 245 | 0.121 | <1 | 1.06 | 0.099 | 0.53 | <0.1 | 0.01 | 2.6 | 0.3 | <0.05 | 5 | <0.5 | <0.2 |



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PHONE (604) 253-3158

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

Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: March 26, 2013
Report Date: April 04, 2013
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN13000972.1

CLIENT JOB INFORMATION

Project: Lacey
Shipment ID:
P.O. Number
Number of Samples: 222

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.

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

CC: Gary Wesa

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|-------------|-------------------|--|--------------|---------------|-----|
| Dry at 60C | 222 | Dry at 60C | | | VAN |
| SS80 | 218 | Dry at 60C sieve 100g to -80 mesh | | | VAN |
| 1DX2 | 222 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

ADDITIONAL COMMENTS



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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 PHONE (604) 253-3158

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

Project: Lacey
 Report Date: April 04, 2013

Page: 2 of 9

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN13000972.1

| Method Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | |
|----------------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | % | % | ppm | | |
| | | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 | |
| 13LS001 | Soil | | 2.1 | 46.1 | 15.7 | 129 | <0.1 | 11.7 | 11.1 | 838 | 3.76 | 2.9 | 6.3 | 0.4 | 14 | <0.1 | 0.8 | 0.2 | 128 | 0.13 | 0.058 | 3 |
| 13LS002 | Soil | | 0.6 | 55.3 | 6.0 | 48 | <0.1 | 16.3 | 9.2 | 472 | 3.33 | 2.6 | 3.6 | 0.8 | 12 | <0.1 | 0.6 | 0.1 | 101 | 0.29 | 0.076 | 3 |
| 13LS003 | Soil | | 1.6 | 91.6 | 3.6 | 34 | 0.2 | 11.4 | 13.9 | 452 | 4.20 | 2.3 | 7.0 | 0.5 | 21 | <0.1 | 0.5 | 0.2 | 138 | 0.25 | 0.127 | 2 |
| 13LS004 | Soil | | 0.5 | 128.4 | 4.2 | 36 | 0.1 | 13.5 | 12.1 | 620 | 2.82 | 2.3 | 11.9 | 0.7 | 10 | <0.1 | 0.6 | 0.2 | 94 | 0.22 | 0.054 | 4 |
| 13LS005 | Soil | | 1.4 | 199.1 | 6.9 | 219 | 0.3 | 16.8 | 22.9 | 1827 | 5.65 | 13.6 | 36.7 | 0.9 | 19 | 0.5 | 0.9 | 0.3 | 128 | 0.24 | 0.257 | 4 |
| 13LS006 | Soil | | 4.4 | 76.0 | 6.5 | 97 | 0.1 | 52.0 | 30.0 | 1491 | 8.26 | 17.0 | 3.7 | 1.2 | 7 | 0.3 | 1.5 | <0.1 | 207 | 0.24 | 0.092 | 5 |
| 13LS007 | Soil | | 0.5 | 94.9 | 3.4 | 38 | <0.1 | 30.1 | 13.9 | 303 | 3.35 | 6.7 | 11.2 | 1.2 | 10 | <0.1 | 0.5 | <0.1 | 97 | 0.41 | 0.040 | 6 |
| 13LS008 | Soil | | 0.8 | 132.6 | 5.7 | 52 | 0.3 | 23.5 | 14.6 | 496 | 3.77 | 4.8 | 16.6 | 1.1 | 11 | 0.2 | 0.4 | <0.1 | 98 | 0.27 | 0.064 | 4 |
| 13LS009 | Soil | | 0.4 | 64.8 | 2.5 | 33 | <0.1 | 24.0 | 10.1 | 324 | 2.44 | 3.1 | 4.0 | 0.9 | 8 | <0.1 | 0.2 | <0.1 | 76 | 0.25 | 0.025 | 3 |
| 13LS010 | Soil | | 0.7 | 62.0 | 4.5 | 52 | <0.1 | 22.2 | 10.9 | 288 | 3.63 | 7.3 | 3.9 | 1.0 | 11 | <0.1 | 0.6 | <0.1 | 120 | 0.28 | 0.060 | 4 |
| 13LS011 | Soil | | 2.2 | 73.2 | 5.5 | 84 | 0.3 | 25.8 | 28.4 | 7965 | 4.28 | 7.8 | 9.7 | 0.5 | 24 | 0.5 | 0.7 | 0.1 | 121 | 0.92 | 0.086 | 11 |
| 13LS012 | Soil | | 0.8 | 98.3 | 3.9 | 52 | <0.1 | 33.2 | 18.9 | 272 | 3.84 | 6.8 | 8.8 | 1.2 | 9 | <0.1 | 0.6 | <0.1 | 122 | 0.29 | 0.022 | 5 |
| 13LS013 | Soil | | 0.8 | 97.4 | 4.1 | 122 | <0.1 | 37.7 | 18.4 | 335 | 3.92 | 9.8 | 7.4 | 1.1 | 10 | <0.1 | 0.7 | <0.1 | 114 | 0.32 | 0.026 | 4 |
| 13LS014 | Soil | | 0.3 | 43.7 | 6.0 | 58 | <0.1 | 18.2 | 9.5 | 417 | 3.29 | 5.2 | 3.5 | 0.7 | 9 | 0.1 | 0.8 | <0.1 | 105 | 0.26 | 0.049 | 2 |
| 13LS015 | Soil | | 0.6 | 52.8 | 5.2 | 58 | 0.1 | 22.2 | 12.3 | 402 | 3.62 | 5.3 | 1.9 | 0.9 | 10 | 0.1 | 0.5 | <0.1 | 123 | 0.25 | 0.054 | 4 |
| 13LS016 | Soil | | 0.9 | 97.9 | 4.5 | 64 | 0.2 | 35.2 | 19.2 | 289 | 5.14 | 14.9 | 5.8 | 1.5 | 7 | 0.2 | 1.1 | <0.1 | 155 | 0.23 | 0.102 | 7 |
| 13LS017 | Soil | | 0.4 | 65.8 | 3.2 | 58 | <0.1 | 21.5 | 12.8 | 683 | 3.42 | 6.1 | 4.6 | 0.9 | 10 | 0.1 | 7.7 | <0.1 | 94 | 0.40 | 0.052 | 10 |
| 13LS018 | Soil | | 7.2 | 490.8 | 58.3 | 103 | 0.3 | 74.4 | 55.8 | 5266 | 5.36 | 69.5 | 39.9 | 1.2 | 22 | 1.2 | 4.5 | 0.5 | 122 | 0.47 | 0.177 | 15 |
| 13LS019 | Soil | | 2.4 | 153.0 | 3.9 | 44 | <0.1 | 61.4 | 31.7 | 240 | 3.94 | 12.2 | 3.2 | 1.1 | 17 | <0.1 | 1.2 | <0.1 | 97 | 0.74 | 0.071 | 9 |
| 13LS020 | Soil | | 0.8 | 74.4 | 4.5 | 50 | <0.1 | 23.4 | 12.5 | 248 | 4.16 | 7.6 | 2.8 | 1.4 | 9 | <0.1 | 0.7 | <0.1 | 130 | 0.26 | 0.064 | 4 |
| 13LS021 | Soil | | 1.2 | 85.8 | 4.6 | 59 | <0.1 | 31.2 | 17.1 | 454 | 4.26 | 6.7 | 2.1 | 1.3 | 10 | <0.1 | 0.6 | <0.1 | 128 | 0.24 | 0.069 | 3 |
| 13LS022 | Soil | | 1.0 | 172.1 | 4.9 | 53 | 0.2 | 26.7 | 15.5 | 338 | 4.65 | 8.9 | 28.8 | 1.2 | 8 | <0.1 | 1.6 | 0.2 | 161 | 0.26 | 0.038 | 6 |
| 13LS023 | Soil | | 0.4 | 37.6 | 3.2 | 36 | <0.1 | 15.4 | 8.9 | 231 | 2.93 | 3.9 | 6.2 | 0.9 | 10 | <0.1 | 0.4 | <0.1 | 101 | 0.28 | 0.035 | 3 |
| 13LS024 | Soil | | 0.4 | 60.3 | 3.0 | 41 | <0.1 | 20.5 | 12.6 | 308 | 3.13 | 3.6 | 3.0 | 0.8 | 11 | 0.2 | 0.4 | <0.1 | 104 | 0.31 | 0.045 | 4 |
| 13LS025 | Soil | | 0.6 | 36.9 | 5.8 | 51 | <0.1 | 15.1 | 8.4 | 433 | 3.43 | 4.8 | 2.9 | 0.7 | 18 | <0.1 | 0.4 | <0.1 | 116 | 0.43 | 0.042 | 3 |
| 13LS026 | Soil | | 0.7 | 47.3 | 6.4 | 62 | <0.1 | 17.4 | 8.3 | 154 | 5.95 | 4.8 | 1.3 | 1.0 | 8 | <0.1 | 0.5 | 0.1 | 187 | 0.20 | 0.088 | 3 |
| 13LS027 | Soil | | 1.3 | 64.2 | 7.7 | 226 | 0.2 | 28.2 | 53.4 | 4299 | 4.17 | 5.0 | 8.0 | 0.7 | 20 | 0.4 | 0.7 | 0.2 | 104 | 0.56 | 0.121 | 7 |
| 13LS028 | Soil | | 1.0 | 55.1 | 4.3 | 67 | <0.1 | 31.7 | 15.6 | 315 | 4.39 | 6.4 | 1.1 | 1.1 | 10 | <0.1 | 0.6 | <0.1 | 141 | 0.26 | 0.056 | 3 |
| 13LS029 | Soil | | 0.7 | 72.1 | 2.6 | 36 | <0.1 | 20.4 | 13.1 | 477 | 3.04 | 7.0 | 2.3 | 1.3 | 14 | <0.1 | 0.3 | <0.1 | 112 | 0.42 | 0.136 | 5 |
| 13LS030 | Soil | | 0.8 | 41.0 | 4.7 | 52 | 0.1 | 22.4 | 10.5 | 291 | 3.20 | 10.0 | 2.2 | 0.9 | 10 | 0.2 | 1.7 | <0.1 | 94 | 0.33 | 0.045 | 10 |

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Project: Lacey
 Report Date: April 04, 2013

Page: 2 of 9

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN13000972.1

| Method | Analyte | 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 |
| Unit | | ppm | % | 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 | 0.05 | 1 | 0.5 | 0.2 | |
| 13LS001 | Soil | 24 | 1.11 | 62 | 0.005 | 2 | 2.90 | 0.007 | 0.03 | <0.1 | 0.18 | 7.6 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS002 | Soil | 38 | 0.28 | 69 | 0.087 | 2 | 2.36 | 0.008 | 0.03 | <0.1 | 0.07 | 4.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS003 | Soil | 36 | 0.87 | 48 | 0.054 | 1 | 3.10 | 0.007 | 0.02 | <0.1 | 0.12 | 6.1 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| 13LS004 | Soil | 26 | 0.61 | 122 | 0.014 | 1 | 2.11 | 0.007 | 0.04 | <0.1 | 0.05 | 4.0 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS005 | Soil | 47 | 1.61 | 48 | 0.111 | 2 | 3.81 | 0.006 | 0.04 | 0.3 | 0.14 | 8.0 | <0.1 | <0.05 | 9 | 0.6 | <0.2 |
| 13LS006 | Soil | 91 | 0.66 | 53 | 0.105 | 2 | 2.72 | 0.007 | 0.02 | <0.1 | 0.09 | 12.9 | <0.1 | <0.05 | 6 | 2.1 | <0.2 |
| 13LS007 | Soil | 47 | 0.77 | 48 | 0.142 | 3 | 2.70 | 0.010 | 0.02 | <0.1 | 0.07 | 8.4 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS008 | Soil | 41 | 0.75 | 42 | 0.134 | 2 | 2.86 | 0.007 | 0.03 | 0.2 | 0.16 | 7.0 | <0.1 | <0.05 | 7 | 0.9 | <0.2 |
| 13LS009 | Soil | 29 | 0.50 | 57 | 0.125 | 2 | 1.98 | 0.009 | 0.02 | <0.1 | 0.06 | 4.7 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 13LS010 | Soil | 39 | 0.49 | 38 | 0.170 | 3 | 2.56 | 0.008 | 0.02 | <0.1 | 0.09 | 7.3 | <0.1 | <0.05 | 7 | 0.5 | <0.2 |
| 13LS011 | Soil | 57 | 0.45 | 191 | 0.089 | 2 | 2.98 | 0.010 | 0.02 | <0.1 | 0.15 | 11.5 | 0.2 | 0.09 | 8 | 1.7 | <0.2 |
| 13LS012 | Soil | 49 | 0.62 | 69 | 0.185 | 2 | 3.16 | 0.009 | 0.03 | <0.1 | 0.07 | 9.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS013 | Soil | 46 | 0.68 | 109 | 0.159 | 3 | 3.50 | 0.010 | 0.03 | <0.1 | 0.06 | 6.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS014 | Soil | 38 | 0.35 | 69 | 0.134 | 2 | 2.20 | 0.007 | 0.05 | <0.1 | 0.04 | 3.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS015 | Soil | 45 | 0.44 | 51 | 0.163 | 2 | 2.63 | 0.008 | 0.02 | <0.1 | 0.16 | 6.0 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS016 | Soil | 55 | 0.54 | 69 | 0.160 | 2 | 4.78 | 0.008 | 0.03 | <0.1 | 0.27 | 10.4 | <0.1 | <0.05 | 9 | 1.1 | <0.2 |
| 13LS017 | Soil | 32 | 0.42 | 106 | 0.096 | 2 | 1.75 | 0.009 | 0.05 | 0.1 | 2.17 | 8.9 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 13LS018 | Soil | 48 | 0.90 | 232 | 0.111 | 2 | 2.39 | 0.007 | 0.04 | 0.2 | 0.61 | 9.1 | 1.6 | <0.05 | 7 | 0.6 | 1.3 |
| 13LS019 | Soil | 61 | 0.36 | 204 | 0.087 | 3 | 6.62 | 0.010 | 0.03 | <0.1 | 0.23 | 10.0 | <0.1 | 0.10 | 7 | 2.4 | <0.2 |
| 13LS020 | Soil | 43 | 0.52 | 46 | 0.164 | 2 | 3.06 | 0.008 | 0.03 | <0.1 | 0.14 | 7.6 | <0.1 | <0.05 | 9 | 0.5 | <0.2 |
| 13LS021 | Soil | 55 | 0.63 | 53 | 0.196 | 2 | 4.35 | 0.008 | 0.03 | <0.1 | 0.18 | 6.8 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| 13LS022 | Soil | 50 | 0.47 | 72 | 0.210 | 1 | 3.13 | 0.008 | 0.02 | 0.1 | 0.15 | 9.4 | <0.1 | <0.05 | 9 | 0.5 | <0.2 |
| 13LS023 | Soil | 33 | 0.45 | 39 | 0.161 | 1 | 1.95 | 0.008 | 0.02 | <0.1 | 0.09 | 4.9 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS024 | Soil | 38 | 0.47 | 60 | 0.151 | 2 | 2.07 | 0.008 | 0.05 | <0.1 | 0.06 | 4.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS025 | Soil | 35 | 0.25 | 92 | 0.146 | 1 | 2.07 | 0.007 | 0.02 | <0.1 | 0.11 | 2.9 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS026 | Soil | 58 | 0.26 | 36 | 0.180 | <1 | 3.41 | 0.006 | 0.02 | <0.1 | 0.15 | 4.4 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| 13LS027 | Soil | 46 | 0.31 | 102 | 0.125 | 2 | 3.20 | 0.008 | 0.03 | <0.1 | 0.17 | 6.5 | 0.1 | 0.06 | 8 | 0.8 | <0.2 |
| 13LS028 | Soil | 57 | 0.47 | 52 | 0.188 | 2 | 3.32 | 0.008 | 0.02 | <0.1 | 0.09 | 6.4 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| 13LS029 | Soil | 39 | 0.74 | 25 | 0.170 | 2 | 3.57 | 0.009 | 0.02 | <0.1 | 0.10 | 11.6 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS030 | Soil | 35 | 0.39 | 40 | 0.103 | 1 | 2.18 | 0.007 | 0.02 | <0.1 | 0.13 | 6.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |

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Project: Lacey
 Report Date: April 04, 2013

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CERTIFICATE OF ANALYSIS

VAN13000972.1

| Method Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | |
|----------------|-----------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | % | % | % | ppm | |
| | | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 | |
| 13LS031 | Soil | | 1.3 | 52.6 | 5.2 | 70 | 0.1 | 34.6 | 14.3 | 315 | 2.96 | 15.5 | 2.5 | 1.0 | 8 | 0.4 | 2.9 | <0.1 | 80 | 0.19 | 0.041 | 5 |
| 13LS032 | Soil | | 0.5 | 39.2 | 4.0 | 63 | <0.1 | 41.1 | 15.2 | 343 | 3.60 | 7.3 | 1.2 | 1.1 | 19 | 0.4 | 1.2 | <0.1 | 95 | 0.36 | 0.024 | 11 |
| 13LS033 | Soil | | 1.0 | 40.1 | 8.0 | 72 | <0.1 | 19.6 | 12.1 | 379 | 3.61 | 7.4 | 2.4 | 0.9 | 8 | 0.1 | 1.7 | <0.1 | 101 | 0.21 | 0.041 | 5 |
| 13LS034 | Soil | | 0.3 | 76.1 | 2.9 | 52 | 0.1 | 31.0 | 12.5 | 955 | 3.30 | 6.0 | 3.6 | 1.3 | 22 | <0.1 | 1.4 | <0.1 | 104 | 0.55 | 0.053 | 7 |
| 13LS035 | Soil | | 0.5 | 41.2 | 4.3 | 46 | <0.1 | 23.1 | 13.6 | 275 | 3.92 | 3.7 | 1.6 | 0.8 | 12 | <0.1 | 0.5 | <0.1 | 132 | 0.30 | 0.027 | 4 |
| 13LS036 | Soil | | 0.6 | 59.3 | 5.2 | 51 | <0.1 | 20.8 | 11.0 | 273 | 3.95 | 4.7 | 1.4 | 0.8 | 10 | <0.1 | 0.6 | <0.1 | 132 | 0.25 | 0.050 | 4 |
| 13LS037 | Soil | | 0.4 | 74.1 | 3.3 | 35 | <0.1 | 21.7 | 9.7 | 262 | 2.52 | 4.4 | 4.0 | 1.2 | 10 | <0.1 | 0.4 | <0.1 | 93 | 0.33 | 0.041 | 5 |
| 13LS038 | Soil | | 0.7 | 119.0 | 8.2 | 62 | 0.3 | 38.0 | 15.1 | 589 | 3.64 | 10.0 | 9.9 | 1.1 | 15 | <0.1 | 1.8 | 0.8 | 101 | 0.57 | 0.087 | 13 |
| 13LS039 | Soil | | 0.5 | 44.1 | 4.3 | 61 | 0.1 | 18.6 | 13.8 | 762 | 3.47 | 4.1 | 3.9 | 0.8 | 9 | 0.1 | 0.6 | 0.1 | 107 | 0.26 | 0.083 | 4 |
| 13LS040 | Soil | | 0.7 | 90.5 | 4.7 | 51 | <0.1 | 30.3 | 16.3 | 481 | 3.77 | 7.1 | 3.9 | 1.4 | 11 | 0.1 | 0.9 | <0.1 | 123 | 0.30 | 0.046 | 5 |
| 13LS041 | Soil | | 0.9 | 70.2 | 4.5 | 45 | 0.2 | 28.3 | 14.1 | 531 | 4.43 | 7.5 | 20.5 | 0.8 | 16 | 0.1 | 1.8 | <0.1 | 141 | 0.49 | 0.046 | 8 |
| 13LS042 | Soil | | 0.3 | 90.1 | 2.9 | 48 | <0.1 | 29.9 | 14.1 | 357 | 3.25 | 5.0 | 1.5 | 0.9 | 11 | <0.1 | 0.6 | <0.1 | 110 | 0.35 | 0.056 | 4 |
| 13LS043 | Soil | | 0.5 | 64.5 | 5.0 | 60 | 0.1 | 24.9 | 15.5 | 569 | 4.22 | 5.3 | 3.9 | 1.0 | 11 | 0.1 | 0.6 | 0.1 | 141 | 0.26 | 0.052 | 4 |
| 13LS044 | Soil | | 0.4 | 69.1 | 3.0 | 42 | <0.1 | 28.8 | 14.7 | 291 | 3.29 | 5.8 | 3.0 | 1.1 | 10 | <0.1 | 0.6 | <0.1 | 110 | 0.32 | 0.022 | 5 |
| 13LS045 | Soil | | 0.2 | 12.5 | 4.3 | 31 | 0.2 | 6.6 | 4.0 | 172 | 2.01 | 1.0 | 4.1 | 0.7 | 18 | <0.1 | 0.3 | 0.1 | 69 | 0.20 | 0.024 | 4 |
| 13LS046 | Soil | | 0.5 | 48.8 | 6.6 | 68 | 0.3 | 15.6 | 9.5 | 487 | 3.01 | 3.6 | 2.1 | 0.9 | 13 | <0.1 | 0.4 | 0.1 | 93 | 0.22 | 0.077 | 4 |
| 13LS047 | Soil | | 0.4 | 53.5 | 10.6 | 37 | 0.1 | 4.8 | 9.8 | 788 | 1.59 | 1.4 | 5.3 | 0.2 | 24 | <0.1 | 0.4 | 0.1 | 52 | 0.30 | 0.042 | 3 |
| 13LS048 | Soil | | 1.2 | 64.2 | 4.7 | 61 | <0.1 | 31.3 | 21.9 | 326 | 3.92 | 5.9 | 2.9 | 1.2 | 13 | 0.1 | 0.6 | <0.1 | 109 | 0.26 | 0.078 | 6 |
| 13LS049 | Soil | | 1.7 | 48.6 | 6.2 | 48 | 0.1 | 23.1 | 19.5 | 1253 | 3.27 | 5.4 | 10.2 | 0.8 | 15 | 0.2 | 0.8 | <0.1 | 101 | 0.37 | 0.051 | 9 |
| 13LS050 | Soil | | 1.0 | 43.0 | 6.7 | 40 | <0.1 | 19.0 | 15.4 | 1051 | 2.96 | 2.7 | 3.5 | 0.8 | 16 | <0.1 | 0.5 | <0.1 | 92 | 0.42 | 0.040 | 7 |
| 13LS051 | Rock Pulp | | 6.4 | 42.9 | 4.6 | 49 | 0.5 | 30.0 | 13.1 | 457 | 2.75 | 5.8 | 732.7 | 1.2 | 41 | 0.3 | 1.0 | 0.1 | 65 | 0.76 | 0.052 | 6 |
| 13LS052 | Soil | | 1.5 | 33.6 | 8.4 | 80 | <0.1 | 10.0 | 17.1 | 1744 | 5.45 | 3.5 | 11.5 | 0.9 | 28 | <0.1 | 0.9 | 0.1 | 133 | 0.28 | 0.072 | 5 |
| 13LS053 | Soil | | 0.4 | 40.5 | 10.0 | 31 | <0.1 | 17.0 | 10.0 | 512 | 3.15 | 2.2 | 2.0 | 0.8 | 17 | 0.1 | 0.4 | <0.1 | 117 | 0.51 | 0.041 | 4 |
| 13LS054 | Soil | | 1.0 | 21.8 | 8.4 | 52 | 0.1 | 15.6 | 9.5 | 328 | 3.09 | 5.5 | 2.0 | 0.8 | 19 | <0.1 | 0.5 | <0.1 | 103 | 0.27 | 0.049 | 4 |
| 13LS055 | Soil | | 1.1 | 57.5 | 5.0 | 66 | 0.1 | 25.8 | 17.3 | 431 | 3.51 | 4.6 | 3.5 | 1.2 | 13 | 0.1 | 0.4 | <0.1 | 107 | 0.28 | 0.097 | 5 |
| 13LS056 | Soil | | 0.7 | 50.3 | 2.6 | 43 | <0.1 | 20.1 | 13.6 | 330 | 3.29 | 3.4 | 2.4 | 0.9 | 15 | <0.1 | 0.3 | <0.1 | 103 | 0.37 | 0.048 | 4 |
| 13LS057 | Soil | | 0.7 | 47.5 | 2.5 | 31 | <0.1 | 23.6 | 13.4 | 257 | 3.13 | 3.0 | 1.6 | 1.0 | 13 | <0.1 | 0.3 | <0.1 | 101 | 0.39 | 0.042 | 3 |
| 13LS058 | Soil | | 0.5 | 51.3 | 2.5 | 32 | <0.1 | 22.8 | 12.6 | 276 | 3.24 | 3.5 | 2.4 | 1.1 | 14 | 0.1 | 0.4 | <0.1 | 114 | 0.35 | 0.040 | 5 |
| 13LS059 | Soil | | 1.1 | 50.6 | 25.4 | 46 | 0.1 | 29.7 | 12.7 | 324 | 4.09 | 8.2 | 3.0 | 1.1 | 31 | 0.2 | 0.3 | <0.1 | 123 | 0.40 | 0.076 | 4 |
| 13LS060 | Soil | | 0.7 | 59.2 | 4.2 | 47 | <0.1 | 27.5 | 13.2 | 322 | 3.41 | 4.7 | 2.4 | 1.4 | 17 | 0.2 | 0.4 | <0.1 | 112 | 0.34 | 0.040 | 7 |

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Project: Lacey
 Report Date: April 04, 2013

Page: 3 of 9

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN13000972.1

| Method | Analyte | 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 |
| Unit | | ppm | % | 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 | 0.05 | 1 | 0.5 | 0.2 | |
| 13LS031 | Soil | 37 | 0.43 | 56 | 0.072 | 2 | 2.49 | 0.006 | 0.02 | <0.1 | 0.21 | 7.7 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 13LS032 | Soil | 54 | 0.81 | 52 | 0.122 | 1 | 2.92 | 0.010 | 0.02 | <0.1 | 0.14 | 9.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS033 | Soil | 39 | 0.45 | 42 | 0.096 | 1 | 2.29 | 0.006 | 0.02 | <0.1 | 0.08 | 4.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS034 | Soil | 55 | 0.65 | 322 | 0.130 | 1 | 2.58 | 0.011 | 0.03 | <0.1 | 0.14 | 12.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS035 | Soil | 42 | 0.35 | 69 | 0.194 | 2 | 2.56 | 0.008 | 0.02 | <0.1 | 0.05 | 4.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS036 | Soil | 46 | 0.36 | 44 | 0.178 | 1 | 2.45 | 0.008 | 0.02 | <0.1 | 0.17 | 5.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS037 | Soil | 37 | 0.50 | 82 | 0.181 | 3 | 2.83 | 0.009 | 0.03 | <0.1 | 0.08 | 6.8 | <0.1 | <0.05 | 6 | 0.5 | <0.2 |
| 13LS038 | Soil | 63 | 0.95 | 116 | 0.109 | 5 | 3.10 | 0.011 | 0.05 | <0.1 | 0.23 | 13.6 | <0.1 | <0.05 | 7 | 0.5 | <0.2 |
| 13LS039 | Soil | 36 | 0.35 | 49 | 0.153 | 2 | 2.34 | 0.008 | 0.02 | <0.1 | 0.14 | 4.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS040 | Soil | 48 | 0.71 | 96 | 0.161 | 4 | 3.86 | 0.009 | 0.04 | <0.1 | 0.17 | 8.7 | <0.1 | <0.05 | 8 | 0.7 | <0.2 |
| 13LS041 | Soil | 63 | 0.54 | 75 | 0.148 | 3 | 3.70 | 0.009 | 0.02 | <0.1 | 0.13 | 8.6 | <0.1 | <0.05 | 9 | 1.0 | <0.2 |
| 13LS042 | Soil | 43 | 0.63 | 54 | 0.158 | 3 | 2.84 | 0.010 | 0.02 | <0.1 | 0.07 | 6.3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS043 | Soil | 47 | 0.64 | 75 | 0.187 | 3 | 2.92 | 0.008 | 0.03 | <0.1 | 0.18 | 7.9 | <0.1 | <0.05 | 9 | 0.7 | <0.2 |
| 13LS044 | Soil | 43 | 0.64 | 58 | 0.187 | 3 | 2.83 | 0.009 | 0.02 | <0.1 | 0.13 | 7.6 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS045 | Soil | 23 | 0.20 | 24 | 0.057 | 1 | 1.28 | 0.006 | 0.02 | <0.1 | 0.15 | 2.3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS046 | Soil | 36 | 0.42 | 44 | 0.082 | 2 | 2.52 | 0.007 | 0.03 | <0.1 | 0.24 | 4.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS047 | Soil | 13 | 0.25 | 53 | 0.045 | 1 | 1.41 | 0.005 | 0.03 | <0.1 | 0.12 | 2.9 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 13LS048 | Soil | 48 | 0.43 | 48 | 0.164 | 2 | 3.90 | 0.008 | 0.03 | <0.1 | 0.10 | 6.6 | <0.1 | <0.05 | 8 | 0.5 | <0.2 |
| 13LS049 | Soil | 48 | 0.48 | 63 | 0.142 | 2 | 3.00 | 0.009 | 0.02 | <0.1 | 0.13 | 6.6 | <0.1 | <0.05 | 7 | 1.0 | <0.2 |
| 13LS050 | Soil | 37 | 0.45 | 71 | 0.138 | 2 | 2.29 | 0.009 | 0.02 | <0.1 | 0.11 | 5.1 | <0.1 | <0.05 | 7 | 0.7 | <0.2 |
| 13LS051 | Rock Pulp | 35 | 0.66 | 133 | 0.134 | 5 | 1.36 | 0.109 | 0.14 | 25.0 | 0.05 | 5.2 | <0.1 | 0.08 | 5 | <0.5 | <0.2 |
| 13LS052 | Soil | 25 | 0.49 | 92 | 0.128 | 2 | 2.46 | 0.005 | 0.02 | <0.1 | 0.09 | 5.1 | <0.1 | <0.05 | 12 | <0.5 | <0.2 |
| 13LS053 | Soil | 50 | 0.53 | 46 | 0.148 | 2 | 2.19 | 0.007 | 0.02 | <0.1 | 0.10 | 5.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS054 | Soil | 40 | 0.37 | 51 | 0.181 | 2 | 2.16 | 0.008 | 0.02 | <0.1 | 0.12 | 3.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS055 | Soil | 42 | 0.44 | 42 | 0.191 | 2 | 3.28 | 0.009 | 0.03 | <0.1 | 0.33 | 5.7 | <0.1 | <0.05 | 8 | 0.7 | <0.2 |
| 13LS056 | Soil | 34 | 0.57 | 51 | 0.205 | 2 | 2.34 | 0.009 | 0.02 | <0.1 | 0.12 | 5.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS057 | Soil | 42 | 0.52 | 36 | 0.196 | 3 | 2.90 | 0.009 | 0.02 | <0.1 | 0.08 | 5.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS058 | Soil | 45 | 0.64 | 37 | 0.214 | 2 | 2.74 | 0.010 | 0.02 | <0.1 | 0.12 | 8.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS059 | Soil | 65 | 0.60 | 29 | 0.223 | 3 | 3.73 | 0.007 | 0.02 | <0.1 | 0.16 | 7.3 | <0.1 | <0.05 | 9 | 0.8 | <0.2 |
| 13LS060 | Soil | 48 | 0.78 | 88 | 0.189 | 3 | 3.61 | 0.012 | 0.05 | <0.1 | 0.09 | 8.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |

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Project: Lacey
 Report Date: April 04, 2013

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN13000972.1

| Method Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | % | % | % | ppm | |
| | | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 | |
| 13LS061 | Soil | | 0.8 | 40.2 | 3.3 | 54 | <0.1 | 29.3 | 17.3 | 274 | 3.41 | 4.8 | 1.3 | 0.8 | 16 | <0.1 | 0.4 | <0.1 | 100 | 0.29 | 0.084 | 3 |
| 13LS062 | Soil | | 0.4 | 52.0 | 3.9 | 47 | <0.1 | 23.5 | 13.5 | 331 | 2.85 | 4.1 | 1.5 | 1.0 | 13 | <0.1 | 0.5 | <0.1 | 87 | 0.32 | 0.071 | 4 |
| 13LS063 | Soil | | 0.6 | 42.5 | 8.3 | 52 | <0.1 | 28.7 | 13.2 | 555 | 2.90 | 4.5 | 0.7 | 0.6 | 16 | 0.1 | 0.3 | <0.1 | 90 | 0.43 | 0.082 | 3 |
| 13LS064 | Soil | | 1.2 | 42.5 | 5.6 | 49 | 0.1 | 36.7 | 14.0 | 256 | 4.50 | 3.3 | 0.7 | 0.9 | 14 | 0.2 | 0.5 | <0.1 | 130 | 0.28 | 0.053 | 3 |
| 13LS065 | Soil | | 1.3 | 17.9 | 5.4 | 38 | 0.1 | 54.4 | 15.8 | 269 | 4.19 | 1.3 | <0.5 | 0.4 | 56 | 0.2 | 0.2 | <0.1 | 144 | 0.32 | 0.026 | 3 |
| 13LS066 | Soil | | 1.0 | 19.4 | 16.0 | 58 | <0.1 | 16.2 | 18.8 | 622 | 3.04 | 1.7 | 0.9 | 0.6 | 13 | <0.1 | 0.3 | <0.1 | 85 | 0.23 | 0.057 | 4 |
| 13LS067 | Soil | | 1.5 | 39.4 | 7.3 | 35 | <0.1 | 18.3 | 10.7 | 228 | 3.36 | 1.6 | 1.0 | 1.1 | 13 | 0.1 | 0.3 | <0.1 | 97 | 0.28 | 0.032 | 6 |
| 13LS068 | Soil | | 5.7 | 148.0 | 28.8 | 85 | 0.4 | 29.5 | 30.0 | 1044 | 13.11 | 14.8 | 5.7 | 0.6 | 12 | 0.3 | 0.4 | 0.2 | 64 | 0.14 | 0.244 | 4 |
| 13LS069 | Soil | | 0.8 | 34.9 | 11.9 | 60 | <0.1 | 17.9 | 21.9 | 902 | 4.57 | 3.0 | 1.0 | 0.5 | 14 | 0.1 | 0.2 | 0.1 | 93 | 0.30 | 0.081 | 4 |
| 13LS070 | Soil | | 1.8 | 85.3 | 6.3 | 56 | <0.1 | 39.5 | 37.4 | 586 | 3.82 | 3.7 | 1.7 | 1.3 | 12 | 0.1 | 0.3 | <0.1 | 88 | 0.27 | 0.083 | 5 |
| 13LS071 | Soil | | 0.9 | 48.2 | 5.4 | 34 | 0.2 | 29.9 | 15.0 | 234 | 3.21 | 1.6 | 0.8 | 1.3 | 14 | 0.1 | 0.2 | <0.1 | 89 | 0.32 | 0.029 | 7 |
| 13LS072 | Soil | | 1.1 | 37.8 | 8.8 | 28 | <0.1 | 23.1 | 10.7 | 365 | 2.77 | 1.3 | <0.5 | 0.8 | 18 | <0.1 | 0.3 | <0.1 | 86 | 0.41 | 0.046 | 5 |
| 13LS073 | Soil | | 0.5 | 12.6 | 12.5 | 32 | <0.1 | 10.4 | 3.8 | 361 | 1.08 | 0.9 | <0.5 | 0.2 | 27 | 0.1 | 0.3 | 0.3 | 42 | 0.45 | 0.037 | 2 |
| 13LS074 | Soil | | 1.4 | 42.3 | 8.0 | 51 | <0.1 | 21.1 | 10.9 | 380 | 4.00 | 2.5 | 1.5 | 1.1 | 18 | <0.1 | 0.5 | 0.1 | 117 | 0.31 | 0.080 | 4 |
| 13LS075 | Soil | | 1.4 | 72.2 | 5.0 | 42 | <0.1 | 46.0 | 21.7 | 396 | 3.84 | 3.7 | 1.2 | 1.2 | 12 | <0.1 | 0.5 | <0.1 | 109 | 0.27 | 0.062 | 6 |
| 13LS076 | Soil | | 1.0 | 60.7 | 4.7 | 38 | <0.1 | 21.1 | 10.4 | 309 | 3.24 | 3.2 | 1.9 | 1.2 | 13 | <0.1 | 0.7 | <0.1 | 108 | 0.25 | 0.057 | 4 |
| 13LS077 | Soil | | 0.6 | 74.4 | 3.8 | 45 | <0.1 | 27.6 | 13.3 | 261 | 2.97 | 4.2 | 2.4 | 1.4 | 14 | <0.1 | 0.4 | <0.1 | 85 | 0.35 | 0.063 | 5 |
| 13LS078 | Soil | | 1.1 | 65.8 | 7.4 | 64 | 0.1 | 38.0 | 17.7 | 620 | 3.70 | 2.6 | <0.5 | 1.1 | 21 | 0.2 | 0.3 | <0.1 | 108 | 0.32 | 0.077 | 5 |
| 13LS079 | Soil | | 1.1 | 71.7 | 6.2 | 82 | <0.1 | 51.1 | 17.3 | 452 | 3.55 | 3.7 | 1.7 | 1.0 | 13 | <0.1 | 0.4 | <0.1 | 98 | 0.31 | 0.088 | 5 |
| 13LS080 | Soil | | 0.7 | 49.2 | 6.6 | 87 | <0.1 | 26.0 | 12.7 | 484 | 4.39 | 2.3 | 1.5 | 1.3 | 17 | <0.1 | 0.3 | 0.1 | 124 | 0.22 | 0.165 | 4 |
| 13LS081 | Soil | | 1.4 | 66.8 | 13.8 | 84 | 0.1 | 28.8 | 17.1 | 613 | 4.75 | 3.3 | 0.8 | 1.4 | 18 | 0.2 | 0.5 | 0.2 | 125 | 0.28 | 0.120 | 5 |
| 13LS082 | Soil | | 1.0 | 140.6 | 6.4 | 47 | <0.1 | 32.4 | 22.0 | 660 | 3.80 | 4.7 | 6.8 | 1.2 | 18 | <0.1 | 0.6 | <0.1 | 123 | 0.40 | 0.072 | 8 |
| 13LS083 | Soil | | 2.3 | 92.8 | 26.7 | 102 | <0.1 | 43.0 | 25.1 | 491 | 4.41 | 4.4 | 1.8 | 1.3 | 19 | 0.3 | 0.8 | 0.1 | 138 | 0.39 | 0.050 | 13 |
| 13LS084 | Soil | | 0.6 | 70.9 | 6.2 | 87 | <0.1 | 41.5 | 20.0 | 961 | 4.17 | 3.6 | 8.5 | 1.1 | 20 | 0.3 | 0.7 | <0.1 | 134 | 0.34 | 0.059 | 6 |
| 13LS085 | Soil | | 0.8 | 76.3 | 2.9 | 46 | <0.1 | 33.8 | 19.7 | 409 | 3.57 | 2.9 | 3.2 | 1.1 | 15 | 0.1 | 0.4 | <0.1 | 112 | 0.35 | 0.031 | 5 |
| 13LS086 | Soil | | 4.6 | 196.0 | 21.6 | 155 | 0.1 | 66.8 | 35.7 | 2513 | 6.46 | 4.3 | 6.6 | 0.8 | 23 | 0.6 | 0.7 | 0.6 | 111 | 0.40 | 0.107 | 5 |
| 13LS087 | Soil | | 1.0 | 131.3 | 5.0 | 86 | <0.1 | 26.3 | 14.6 | 1069 | 3.45 | 3.3 | 13.5 | 1.1 | 12 | 0.2 | 0.5 | <0.1 | 102 | 0.27 | 0.106 | 6 |
| 13LS088 | Soil | | 0.2 | 25.0 | 3.7 | 55 | <0.1 | 14.5 | 9.4 | 320 | 2.63 | 1.8 | 2.0 | 0.7 | 15 | <0.1 | 0.3 | <0.1 | 85 | 0.25 | 0.027 | 4 |
| 13LS089 | Soil | | 1.1 | 65.3 | 6.8 | 81 | <0.1 | 37.8 | 17.4 | 801 | 3.56 | 2.9 | 2.0 | 1.0 | 15 | 0.1 | 0.6 | 0.2 | 101 | 0.30 | 0.073 | 5 |
| 13LS090 | Soil | | 2.0 | 70.2 | 7.4 | 62 | <0.1 | 58.0 | 33.1 | 1197 | 4.98 | 3.4 | 1.5 | 1.1 | 15 | <0.1 | 0.6 | 0.2 | 121 | 0.27 | 0.067 | 7 |

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Project: Lacey
 Report Date: April 04, 2013

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CERTIFICATE OF ANALYSIS

VAN13000972.1

| Method | Analyte | 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 |
| Unit | | ppm | % | 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 | 0.05 | 1 | 0.5 | 0.2 | |
| 13LS061 | Soil | 50 | 0.57 | 39 | 0.183 | 2 | 3.29 | 0.007 | 0.03 | <0.1 | 0.14 | 5.0 | <0.1 | <0.05 | 7 | 0.5 | <0.2 |
| 13LS062 | Soil | 35 | 0.57 | 46 | 0.159 | 3 | 2.32 | 0.009 | 0.03 | <0.1 | 0.10 | 4.7 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS063 | Soil | 51 | 0.62 | 64 | 0.152 | 3 | 2.05 | 0.007 | 0.03 | <0.1 | 0.09 | 4.0 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS064 | Soil | 65 | 0.56 | 48 | 0.169 | 2 | 2.71 | 0.007 | 0.03 | <0.1 | 0.15 | 4.4 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| 13LS065 | Soil | 89 | 0.98 | 28 | 0.316 | <1 | 1.68 | 0.009 | 0.02 | <0.1 | 0.03 | 5.4 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| 13LS066 | Soil | 31 | 0.43 | 70 | 0.072 | 1 | 1.87 | 0.006 | 0.02 | <0.1 | 0.09 | 3.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS067 | Soil | 36 | 0.35 | 64 | 0.125 | 1 | 2.76 | 0.009 | 0.03 | <0.1 | 0.07 | 4.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS068 | Soil | 18 | 0.80 | 124 | 0.007 | 3 | 1.56 | 0.016 | 0.06 | <0.1 | 0.13 | 12.0 | <0.1 | 0.52 | 5 | 4.4 | 1.7 |
| 13LS069 | Soil | 29 | 0.45 | 95 | 0.060 | 2 | 1.87 | 0.009 | 0.04 | <0.1 | 0.08 | 3.9 | <0.1 | 0.05 | 8 | 0.6 | 0.4 |
| 13LS070 | Soil | 38 | 0.51 | 86 | 0.123 | 2 | 4.06 | 0.011 | 0.05 | <0.1 | 0.10 | 5.4 | <0.1 | <0.05 | 8 | 0.9 | 0.2 |
| 13LS071 | Soil | 41 | 0.41 | 54 | 0.174 | 1 | 3.08 | 0.011 | 0.03 | <0.1 | 0.05 | 5.3 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| 13LS072 | Soil | 36 | 0.36 | 43 | 0.136 | 1 | 2.17 | 0.007 | 0.04 | <0.1 | 0.08 | 3.7 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS073 | Soil | 23 | 0.19 | 105 | 0.138 | 2 | 0.54 | 0.006 | 0.02 | <0.1 | 0.10 | 1.6 | <0.1 | <0.05 | 3 | <0.5 | <0.2 |
| 13LS074 | Soil | 50 | 0.49 | 62 | 0.169 | 1 | 3.15 | 0.007 | 0.03 | <0.1 | 0.09 | 3.9 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| 13LS075 | Soil | 59 | 0.67 | 58 | 0.153 | 2 | 4.47 | 0.008 | 0.04 | <0.1 | 0.34 | 5.4 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |
| 13LS076 | Soil | 46 | 0.52 | 51 | 0.177 | 2 | 3.21 | 0.007 | 0.03 | <0.1 | 0.15 | 5.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS077 | Soil | 43 | 0.66 | 52 | 0.149 | 2 | 3.27 | 0.010 | 0.04 | <0.1 | 0.17 | 5.4 | <0.1 | <0.05 | 6 | 0.8 | <0.2 |
| 13LS078 | Soil | 76 | 0.81 | 62 | 0.171 | 2 | 3.20 | 0.007 | 0.03 | <0.1 | 0.09 | 5.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS079 | Soil | 76 | 1.06 | 38 | 0.156 | 2 | 2.89 | 0.007 | 0.03 | 0.1 | 0.09 | 5.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS080 | Soil | 80 | 0.68 | 48 | 0.165 | <1 | 3.19 | 0.007 | 0.03 | 0.1 | 0.11 | 5.4 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| 13LS081 | Soil | 81 | 0.76 | 66 | 0.164 | <1 | 3.82 | 0.008 | 0.04 | 0.1 | 0.35 | 6.6 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |
| 13LS082 | Soil | 58 | 1.05 | 81 | 0.186 | 2 | 3.23 | 0.008 | 0.03 | 0.1 | 0.21 | 10.1 | <0.1 | <0.05 | 7 | 0.6 | <0.2 |
| 13LS083 | Soil | 83 | 1.04 | 117 | 0.172 | 2 | 4.47 | 0.008 | 0.04 | 0.1 | 0.12 | 10.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS084 | Soil | 76 | 1.05 | 153 | 0.174 | 1 | 4.02 | 0.006 | 0.05 | <0.1 | 0.08 | 7.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS085 | Soil | 56 | 0.82 | 73 | 0.187 | 2 | 3.00 | 0.008 | 0.03 | 0.1 | 0.07 | 5.7 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS086 | Soil | 185 | 1.81 | 122 | 0.143 | 2 | 2.69 | 0.005 | 0.04 | <0.1 | 0.15 | 8.7 | <0.1 | 0.25 | 7 | 2.0 | 1.4 |
| 13LS087 | Soil | 49 | 0.71 | 70 | 0.160 | 2 | 2.92 | 0.007 | 0.03 | 0.1 | 0.15 | 7.2 | <0.1 | <0.05 | 6 | 0.5 | <0.2 |
| 13LS088 | Soil | 27 | 0.32 | 71 | 0.137 | 1 | 1.91 | 0.007 | 0.02 | <0.1 | 0.07 | 3.0 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS089 | Soil | 75 | 0.86 | 65 | 0.159 | 2 | 2.82 | 0.007 | 0.03 | <0.1 | 0.12 | 5.9 | <0.1 | <0.05 | 6 | <0.5 | 0.3 |
| 13LS090 | Soil | 92 | 1.11 | 76 | 0.176 | 1 | 3.40 | 0.007 | 0.04 | <0.1 | 0.09 | 8.6 | <0.1 | <0.05 | 7 | 0.6 | 0.7 |



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Project: Lacey
 Report Date: April 04, 2013

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN13000972.1

| Method Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | |
|----------------|-----------|-----|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | % | % | % | ppm | |
| | | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 | |
| 13LS091 | Soil | | 0.3 | 38.0 | 4.9 | 32 | <0.1 | 20.1 | 11.1 | 450 | 2.90 | 2.7 | 5.5 | 1.0 | 13 | <0.1 | 0.3 | <0.1 | 97 | 0.34 | 0.061 | 5 |
| 13LS092 | Soil | | 0.4 | 39.9 | 4.7 | 64 | <0.1 | 21.7 | 11.8 | 365 | 3.04 | 2.6 | <0.5 | 0.9 | 13 | <0.1 | 0.3 | <0.1 | 93 | 0.26 | 0.074 | 4 |
| 13LS093 | Soil | | 0.4 | 55.2 | 6.1 | 42 | <0.1 | 22.6 | 11.1 | 368 | 3.05 | 2.9 | 0.7 | 1.4 | 12 | <0.1 | 0.4 | <0.1 | 92 | 0.25 | 0.071 | 4 |
| 13LS094 | Soil | | 0.3 | 33.1 | 4.8 | 54 | <0.1 | 16.9 | 13.6 | 959 | 2.99 | 2.3 | <0.5 | 0.8 | 16 | <0.1 | 0.3 | <0.1 | 91 | 0.32 | 0.117 | 3 |
| 13LS095 | Soil | | 0.5 | 77.3 | 6.0 | 41 | <0.1 | 25.4 | 14.8 | 519 | 3.45 | 3.6 | <0.5 | 1.1 | 15 | <0.1 | 0.5 | <0.1 | 116 | 0.27 | 0.063 | 5 |
| 13LS096 | Soil | | 0.3 | 70.7 | 6.1 | 53 | <0.1 | 31.9 | 17.0 | 732 | 3.49 | 5.0 | <0.5 | 0.9 | 22 | <0.1 | 0.4 | <0.1 | 113 | 0.33 | 0.076 | 4 |
| 13LS097 | Soil | | 0.5 | 39.9 | 4.5 | 40 | <0.1 | 24.9 | 13.9 | 506 | 3.05 | 3.0 | 1.2 | 1.2 | 11 | <0.1 | 0.3 | <0.1 | 95 | 0.26 | 0.044 | 7 |
| 13LS098 | Soil | | 1.3 | 41.2 | 14.5 | 50 | <0.1 | 23.4 | 19.0 | 629 | 3.88 | 11.9 | 3.3 | 2.0 | 11 | 0.1 | 0.8 | 0.2 | 83 | 0.23 | 0.045 | 17 |
| 13LS099 | Soil | | 0.4 | 30.4 | 11.9 | 40 | <0.1 | 15.8 | 9.3 | 279 | 2.52 | 4.5 | <0.5 | 1.2 | 12 | 0.1 | 0.2 | <0.1 | 78 | 0.25 | 0.079 | 4 |
| 13LS100 | Soil | | 0.4 | 44.8 | 5.6 | 57 | <0.1 | 22.5 | 14.4 | 653 | 3.45 | 6.4 | 5.3 | 0.9 | 13 | <0.1 | 0.4 | <0.1 | 103 | 0.25 | 0.117 | 4 |
| 13LS101 | Soil | | 0.4 | 69.9 | 7.4 | 51 | 0.1 | 29.4 | 15.3 | 420 | 3.47 | 12.5 | 7.4 | 1.1 | 15 | <0.1 | 0.4 | <0.1 | 110 | 0.29 | 0.061 | 4 |
| 13LS102 | Rock Pulp | | 29.5 | 6478 | 4478 | >10000 | 69.0 | 35.2 | 49.8 | 457 | 4.44 | 51.1 | 556.3 | 4.2 | 35 | 65.3 | 82.3 | 11.3 | 58 | 0.72 | 0.046 | 10 |
| 13LS103 | Soil | | 0.2 | 23.7 | 3.5 | 24 | <0.1 | 11.8 | 6.0 | 169 | 2.04 | 2.2 | 0.5 | 1.1 | 10 | <0.1 | 0.1 | <0.1 | 75 | 0.24 | 0.017 | 4 |
| 13LS104 | Soil | | 0.3 | 17.3 | 3.4 | 39 | <0.1 | 15.4 | 8.1 | 191 | 2.30 | 2.5 | 4.9 | 1.2 | 10 | <0.1 | 0.1 | <0.1 | 81 | 0.20 | 0.063 | 5 |
| 13LS105 | Soil | | 0.7 | 48.1 | 5.2 | 51 | 0.1 | 23.3 | 13.4 | 1190 | 3.22 | 2.7 | 1.6 | 0.9 | 16 | 0.1 | 0.3 | 0.2 | 91 | 0.41 | 0.047 | 6 |
| 13LS106 | Soil | | 0.7 | 38.1 | 4.3 | 30 | <0.1 | 16.4 | 10.5 | 262 | 3.24 | 2.2 | 2.6 | 0.9 | 12 | <0.1 | 0.3 | 0.1 | 105 | 0.24 | 0.030 | 5 |
| 13LS107 | Soil | | 0.4 | 46.8 | 4.3 | 40 | <0.1 | 18.8 | 10.8 | 322 | 2.69 | 2.7 | 1.8 | 1.0 | 11 | <0.1 | 0.3 | <0.1 | 88 | 0.24 | 0.057 | 4 |
| 13LS108 | Soil | | 0.5 | 61.2 | 4.8 | 46 | <0.1 | 16.8 | 10.3 | 283 | 3.11 | 3.2 | 1.4 | 1.2 | 11 | <0.1 | 0.2 | <0.1 | 95 | 0.21 | 0.044 | 4 |
| 13LS109 | Soil | | 0.8 | 66.0 | 3.9 | 34 | <0.1 | 23.9 | 14.5 | 290 | 3.63 | 4.1 | 10.0 | 1.5 | 9 | 0.1 | 0.2 | <0.1 | 112 | 0.27 | 0.031 | 5 |
| 13LS110 | Soil | | 0.5 | 31.1 | 7.0 | 37 | <0.1 | 16.0 | 9.5 | 814 | 2.56 | 2.9 | 5.9 | 1.1 | 11 | 0.1 | 0.2 | <0.1 | 79 | 0.36 | 0.035 | 5 |
| 13LS111 | Soil | | 0.4 | 43.7 | 6.6 | 38 | 0.1 | 16.1 | 9.4 | 208 | 2.49 | 2.5 | 4.2 | 1.5 | 8 | <0.1 | 0.1 | <0.1 | 79 | 0.23 | 0.026 | 5 |
| 13LS112 | Soil | | 0.7 | 68.1 | 6.0 | 50 | <0.1 | 21.3 | 14.8 | 263 | 3.51 | 4.8 | 6.0 | 1.2 | 10 | <0.1 | 0.2 | <0.1 | 99 | 0.26 | 0.043 | 3 |
| 13LS113 | Soil | | 0.6 | 39.0 | 3.8 | 39 | <0.1 | 20.8 | 12.5 | 199 | 3.37 | 3.1 | 3.4 | 1.1 | 9 | <0.1 | 0.2 | <0.1 | 106 | 0.26 | 0.029 | 3 |
| 13LS114 | Soil | | 0.3 | 29.1 | 3.1 | 26 | <0.1 | 15.9 | 9.0 | 323 | 2.41 | 2.4 | 2.2 | 1.1 | 9 | <0.1 | 0.1 | <0.1 | 78 | 0.31 | 0.025 | 5 |
| 13LS115 | Soil | | 0.4 | 36.4 | 3.0 | 30 | <0.1 | 16.9 | 9.4 | 302 | 2.70 | 2.8 | 3.2 | 1.3 | 9 | <0.1 | 0.2 | <0.1 | 90 | 0.32 | 0.039 | 6 |
| 13LS116 | Soil | | 0.5 | 34.7 | 5.2 | 29 | <0.1 | 18.6 | 10.6 | 221 | 3.40 | 2.2 | 4.8 | 0.9 | 11 | <0.1 | 0.2 | <0.1 | 114 | 0.34 | 0.032 | 4 |
| 13LS117 | Soil | | 0.7 | 100.4 | 13.8 | 63 | <0.1 | 44.8 | 24.4 | 1357 | 4.32 | 9.1 | 8.4 | 0.9 | 21 | 0.1 | 0.6 | <0.1 | 126 | 0.82 | 0.079 | 6 |
| 13LS118 | Soil | | 2.0 | 52.4 | 4.0 | 34 | <0.1 | 28.6 | 13.6 | 326 | 3.34 | 2.6 | 3.9 | 1.2 | 14 | <0.1 | 0.3 | <0.1 | 110 | 0.41 | 0.027 | 5 |
| 13LS119 | Soil | | 0.5 | 65.6 | 3.7 | 39 | <0.1 | 28.5 | 15.3 | 496 | 3.26 | 5.3 | 3.2 | 1.1 | 10 | <0.1 | 0.3 | <0.1 | 101 | 0.33 | 0.053 | 4 |
| 13LS120 | Soil | | 0.4 | 47.8 | 3.7 | 28 | <0.1 | 18.1 | 11.0 | 462 | 3.05 | 3.4 | 7.5 | 1.2 | 11 | 0.1 | 0.2 | <0.1 | 96 | 0.31 | 0.044 | 6 |

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Project: Lacey
 Report Date: April 04, 2013

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CERTIFICATE OF ANALYSIS

VAN13000972.1

| Method | Analyte | 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 |
| Unit | | ppm | % | 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 | 0.05 | 1 | 0.5 | 0.2 | |
| 13LS091 | Soil | 30 | 0.47 | 42 | 0.168 | 2 | 2.24 | 0.008 | 0.02 | <0.1 | 0.07 | 5.1 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 13LS092 | Soil | 34 | 0.46 | 56 | 0.171 | 1 | 2.56 | 0.007 | 0.02 | <0.1 | 0.14 | 3.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS093 | Soil | 43 | 0.49 | 52 | 0.175 | 1 | 3.95 | 0.009 | 0.03 | <0.1 | 0.11 | 4.1 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS094 | Soil | 40 | 0.49 | 56 | 0.129 | <1 | 2.22 | 0.006 | 0.02 | <0.1 | 0.07 | 3.3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS095 | Soil | 55 | 0.75 | 67 | 0.191 | 2 | 2.96 | 0.007 | 0.03 | <0.1 | 0.07 | 7.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS096 | Soil | 84 | 0.94 | 77 | 0.192 | 1 | 2.50 | 0.007 | 0.03 | <0.1 | 0.16 | 5.3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS097 | Soil | 43 | 0.57 | 65 | 0.145 | 2 | 2.23 | 0.008 | 0.03 | <0.1 | 0.07 | 5.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS098 | Soil | 30 | 0.52 | 86 | 0.104 | 2 | 2.54 | 0.008 | 0.04 | <0.1 | 0.14 | 6.9 | <0.1 | <0.05 | 6 | <0.5 | 0.3 |
| 13LS099 | Soil | 28 | 0.42 | 58 | 0.141 | <1 | 2.19 | 0.009 | 0.03 | <0.1 | 0.06 | 3.1 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS100 | Soil | 51 | 0.69 | 63 | 0.143 | 1 | 2.47 | 0.008 | 0.03 | <0.1 | 0.05 | 4.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS101 | Soil | 64 | 0.82 | 69 | 0.151 | 3 | 2.91 | 0.008 | 0.03 | <0.1 | 0.07 | 6.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS102 | Rock Pulp | 34 | 0.93 | 75 | 0.117 | 3 | 1.47 | 0.078 | 0.19 | 28.5 | 1.76 | 3.8 | 1.7 | 2.57 | 8 | 3.3 | <0.2 |
| 13LS103 | Soil | 20 | 0.30 | 41 | 0.141 | 1 | 1.52 | 0.010 | 0.02 | <0.1 | 0.03 | 3.5 | <0.1 | <0.05 | 4 | <0.5 | <0.2 |
| 13LS104 | Soil | 24 | 0.32 | 49 | 0.147 | <1 | 2.05 | 0.009 | 0.03 | <0.1 | 0.03 | 3.4 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 13LS105 | Soil | 37 | 0.55 | 96 | 0.141 | 2 | 2.37 | 0.010 | 0.03 | <0.1 | 0.08 | 5.0 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS106 | Soil | 32 | 0.39 | 46 | 0.160 | <1 | 2.13 | 0.008 | 0.02 | <0.1 | 0.09 | 4.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS107 | Soil | 31 | 0.51 | 47 | 0.157 | 1 | 2.25 | 0.008 | 0.02 | <0.1 | 0.07 | 3.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS108 | Soil | 33 | 0.48 | 45 | 0.144 | <1 | 2.28 | 0.008 | 0.03 | <0.1 | 0.07 | 3.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS109 | Soil | 37 | 0.46 | 71 | 0.185 | 5 | 3.04 | 0.009 | 0.03 | <0.1 | 0.07 | 6.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS110 | Soil | 28 | 0.38 | 61 | 0.136 | 3 | 2.00 | 0.007 | 0.04 | <0.1 | 0.05 | 3.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS111 | Soil | 24 | 0.36 | 57 | 0.140 | 3 | 2.06 | 0.008 | 0.04 | <0.1 | 0.04 | 4.2 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 13LS112 | Soil | 35 | 0.44 | 81 | 0.176 | 4 | 2.78 | 0.007 | 0.03 | <0.1 | 0.06 | 4.0 | <0.1 | <0.05 | 7 | 0.7 | <0.2 |
| 13LS113 | Soil | 30 | 0.32 | 73 | 0.176 | 2 | 2.58 | 0.012 | 0.03 | <0.1 | 0.08 | 3.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS114 | Soil | 24 | 0.33 | 50 | 0.171 | 5 | 1.96 | 0.009 | 0.03 | <0.1 | 0.05 | 4.6 | <0.1 | <0.05 | 5 | 0.8 | <0.2 |
| 13LS115 | Soil | 29 | 0.38 | 65 | 0.157 | 3 | 2.02 | 0.008 | 0.04 | <0.1 | 0.05 | 5.5 | <0.1 | <0.05 | 5 | 0.7 | <0.2 |
| 13LS116 | Soil | 33 | 0.32 | 64 | 0.187 | 3 | 2.36 | 0.007 | 0.02 | <0.1 | 0.06 | 3.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS117 | Soil | 95 | 1.69 | 91 | 0.174 | 4 | 3.16 | 0.010 | 0.06 | <0.1 | 0.22 | 9.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS118 | Soil | 41 | 0.49 | 101 | 0.185 | 2 | 3.08 | 0.008 | 0.04 | <0.1 | 0.08 | 4.8 | <0.1 | <0.05 | 8 | 0.8 | <0.2 |
| 13LS119 | Soil | 41 | 0.78 | 67 | 0.158 | 4 | 2.67 | 0.008 | 0.04 | <0.1 | 0.07 | 6.2 | <0.1 | <0.05 | 6 | 0.9 | <0.2 |
| 13LS120 | Soil | 31 | 0.36 | 38 | 0.154 | 2 | 2.57 | 0.007 | 0.02 | <0.1 | 0.05 | 6.4 | <0.1 | <0.05 | 6 | 1.1 | <0.2 |

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Project: Lacey
 Report Date: April 04, 2013

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN13000972.1

| Method Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | |
|----------------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | |
| | | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 | |
| 13LS121 | Soil | | 0.4 | 54.5 | 3.9 | 30 | <0.1 | 22.5 | 12.9 | 531 | 2.91 | 3.8 | 4.9 | 1.3 | 13 | <0.1 | 0.2 | 0.2 | 88 | 0.38 | 0.032 | 6 |
| 13LS122 | Soil | | 0.7 | 84.9 | 8.6 | 52 | <0.1 | 33.4 | 20.4 | 1368 | 3.86 | 24.4 | 9.7 | 0.8 | 16 | 0.2 | 0.6 | <0.1 | 99 | 0.48 | 0.064 | 5 |
| 13LS123 | Soil | | 0.8 | 63.1 | 5.1 | 42 | <0.1 | 17.3 | 15.2 | 756 | 3.69 | 3.5 | 4.4 | 0.9 | 11 | <0.1 | 0.4 | <0.1 | 98 | 0.23 | 0.068 | 4 |
| 13LS124 | Soil | | 1.4 | 235.1 | 12.1 | 55 | 0.1 | 22.2 | 22.0 | 2065 | 4.62 | 10.6 | 55.2 | 1.3 | 15 | 0.4 | 1.4 | 0.3 | 101 | 0.45 | 0.079 | 10 |
| 13LS125 | Soil | | 2.1 | 301.2 | 15.6 | 66 | 0.2 | 12.8 | 39.6 | 4608 | 6.17 | 10.0 | 30.9 | 1.1 | 9 | 0.2 | 2.7 | 0.2 | 129 | 0.20 | 0.112 | 10 |
| 13LS126 | Soil | | 3.3 | 421.8 | 14.2 | 52 | 0.2 | 20.1 | 37.1 | 3149 | 5.76 | 11.2 | 44.9 | 1.3 | 11 | 0.2 | 1.8 | 0.2 | 95 | 0.27 | 0.087 | 11 |
| 13LS127 | Soil | | 1.4 | 116.3 | 12.8 | 59 | <0.1 | 17.2 | 17.6 | 1812 | 4.37 | 4.6 | 9.5 | 0.6 | 15 | 0.5 | 0.6 | <0.1 | 92 | 0.55 | 0.047 | 5 |
| 13LS128 | Soil | | 1.0 | 93.5 | 5.7 | 60 | 0.1 | 25.8 | 15.5 | 952 | 3.88 | 4.9 | 10.4 | 1.0 | 13 | 0.1 | 0.6 | <0.1 | 114 | 0.34 | 0.077 | 5 |
| 13LS129 | Soil | | 1.9 | 119.3 | 12.0 | 197 | 0.2 | 16.5 | 21.2 | 3806 | 4.42 | 11.6 | 64.2 | 1.2 | 17 | 1.8 | 5.1 | <0.1 | 82 | 0.57 | 0.104 | 22 |
| 13LS130 | Soil | | 3.0 | 172.6 | 11.3 | 155 | 0.1 | 23.5 | 26.4 | 2744 | 6.18 | 8.4 | 12.1 | 1.0 | 9 | 0.8 | 2.6 | <0.1 | 105 | 0.35 | 0.085 | 17 |
| 13LS131 | Soil | | 1.2 | 47.5 | 7.8 | 147 | 0.3 | 18.1 | 15.3 | 398 | 4.36 | 4.6 | 3.7 | 0.9 | 12 | 0.5 | 0.5 | 0.1 | 125 | 0.24 | 0.063 | 7 |
| 13LS132 | Soil | | 0.6 | 74.6 | 4.2 | 255 | 0.1 | 23.0 | 14.0 | 356 | 3.29 | 4.0 | 20.2 | 1.2 | 10 | 0.8 | 0.9 | <0.1 | 103 | 0.23 | 0.034 | 6 |
| 13LS133 | Soil | | 0.8 | 99.8 | 18.9 | 46 | <0.1 | 25.5 | 14.2 | 398 | 3.39 | 8.3 | 8.3 | 1.3 | 15 | 0.2 | 0.5 | <0.1 | 109 | 0.36 | 0.035 | 7 |
| 13LS134 | Soil | | 0.7 | 59.0 | 3.8 | 36 | <0.1 | 24.2 | 12.5 | 214 | 3.23 | 5.2 | 3.1 | 1.4 | 9 | <0.1 | 0.3 | <0.1 | 108 | 0.27 | 0.030 | 5 |
| 13LS135 | Soil | | 0.9 | 63.2 | 3.8 | 42 | 0.1 | 29.0 | 16.8 | 224 | 3.39 | 8.4 | 3.4 | 1.2 | 10 | 0.2 | 0.4 | <0.1 | 110 | 0.26 | 0.032 | 5 |
| 13LS136 | Soil | | 0.4 | 65.3 | 5.2 | 42 | <0.1 | 27.4 | 14.0 | 494 | 3.26 | 4.3 | 6.4 | 1.2 | 12 | <0.1 | 0.4 | <0.1 | 101 | 0.28 | 0.052 | 5 |
| 13LS137 | Soil | | 0.3 | 27.1 | 3.1 | 39 | <0.1 | 14.7 | 9.2 | 201 | 2.92 | 2.2 | 1.8 | 1.0 | 8 | <0.1 | 0.2 | <0.1 | 101 | 0.21 | 0.062 | 2 |
| 13LS138 | Soil | | 0.6 | 34.3 | 5.5 | 29 | <0.1 | 14.2 | 9.0 | 678 | 2.38 | 3.1 | 6.1 | 0.8 | 10 | 0.1 | 0.6 | <0.1 | 74 | 0.40 | 0.040 | 5 |
| 13LS139 | Soil | | 0.4 | 41.0 | 3.0 | 39 | <0.1 | 27.6 | 12.5 | 349 | 3.26 | 3.1 | 0.8 | 0.9 | 10 | <0.1 | 0.4 | <0.1 | 110 | 0.22 | 0.045 | 3 |
| 13LS140 | Soil | | 0.4 | 61.0 | 3.3 | 36 | <0.1 | 36.2 | 17.1 | 425 | 3.66 | 3.3 | 3.0 | 1.2 | 11 | <0.1 | 0.5 | <0.1 | 103 | 0.19 | 0.040 | 3 |
| 13LS141 | Soil | | 0.3 | 61.2 | 47.2 | 35 | <0.1 | 26.4 | 13.2 | 464 | 3.03 | 4.2 | 4.4 | 0.8 | 12 | <0.1 | 0.8 | <0.1 | 88 | 0.20 | 0.051 | 4 |
| 13LS142 | Soil | | 0.4 | 48.2 | 2.5 | 25 | <0.1 | 21.1 | 10.4 | 195 | 2.72 | 2.1 | 2.3 | 1.3 | 9 | <0.1 | 0.4 | <0.1 | 95 | 0.24 | 0.045 | 4 |
| 13LS143 | Soil | | 0.4 | 65.5 | 359.7 | 44 | <0.1 | 27.9 | 12.4 | 626 | 3.44 | 5.7 | 5.7 | 0.6 | 17 | <0.1 | 3.3 | <0.1 | 93 | 0.20 | 0.197 | 4 |
| 13LS144 | Soil | | 0.4 | 81.9 | 1122 | 47 | <0.1 | 39.0 | 17.2 | 548 | 3.73 | 5.4 | 13.0 | 1.2 | 19 | <0.1 | 7.7 | 0.1 | 110 | 0.28 | 0.078 | 4 |
| 13LS145 | Soil | | 0.4 | 85.2 | 3.9 | 45 | <0.1 | 47.0 | 19.7 | 464 | 3.88 | 4.9 | 15.5 | 1.2 | 15 | <0.1 | 0.7 | 0.1 | 114 | 0.18 | 0.103 | 4 |
| 13LS146 | Soil | | 0.4 | 50.1 | 3.8 | 38 | 0.1 | 27.1 | 12.9 | 272 | 3.17 | 3.5 | 2.6 | 1.1 | 10 | <0.1 | 0.5 | 0.1 | 90 | 0.18 | 0.030 | 4 |
| 13LS147 | Soil | | 0.3 | 72.4 | 2.6 | 38 | 0.2 | 33.2 | 15.3 | 312 | 3.40 | 4.8 | 2.8 | 0.8 | 13 | <0.1 | 1.0 | <0.1 | 99 | 0.26 | 0.022 | 3 |
| 13LS148 | Soil | | 0.2 | 34.8 | 4.3 | 59 | <0.1 | 22.4 | 12.4 | 536 | 2.84 | 2.3 | 0.7 | 0.8 | 9 | <0.1 | 0.3 | <0.1 | 75 | 0.17 | 0.079 | 3 |
| 13LS149 | Soil | | 0.5 | 64.9 | 3.1 | 50 | <0.1 | 43.3 | 17.7 | 697 | 4.31 | 7.7 | 35.4 | 0.9 | 10 | <0.1 | 1.1 | <0.1 | 116 | 0.24 | 0.111 | 4 |
| 13LS150 | Soil | | 0.6 | 77.2 | 3.1 | 33 | 0.1 | 33.4 | 15.9 | 397 | 3.55 | 6.2 | 6.8 | 1.2 | 11 | <0.1 | 1.6 | <0.1 | 100 | 0.29 | 0.035 | 9 |



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 2446 Bidston Road
 Mill Bay BC V0R 2P4 CANADA

Project: Lacey
 Report Date: April 04, 2013

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CERTIFICATE OF ANALYSIS

VAN13000972.1

| Method | Analyte | 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 |
| Unit | | ppm | % | 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 | 0.05 | 1 | 0.5 | 0.2 | |
| 13LS121 | Soil | 35 | 0.51 | 69 | 0.149 | 4 | 2.83 | 0.010 | 0.03 | <0.1 | 0.05 | 6.1 | <0.1 | <0.05 | 5 | 1.1 | <0.2 |
| 13LS122 | Soil | 60 | 1.19 | 56 | 0.114 | 3 | 2.66 | 0.008 | 0.03 | <0.1 | 0.08 | 7.8 | <0.1 | <0.05 | 6 | 0.6 | <0.2 |
| 13LS123 | Soil | 31 | 0.37 | 53 | 0.122 | 1 | 2.55 | 0.006 | 0.02 | <0.1 | 0.09 | 4.7 | <0.1 | <0.05 | 7 | 0.9 | <0.2 |
| 13LS124 | Soil | 36 | 0.92 | 73 | 0.107 | 3 | 3.07 | 0.007 | 0.03 | <0.1 | 0.09 | 9.7 | <0.1 | <0.05 | 7 | 1.3 | 0.2 |
| 13LS125 | Soil | 26 | 1.01 | 102 | 0.049 | 2 | 3.33 | 0.005 | 0.04 | <0.1 | 0.13 | 9.8 | <0.1 | <0.05 | 8 | 1.1 | <0.2 |
| 13LS126 | Soil | 37 | 1.55 | 65 | 0.045 | 4 | 2.82 | 0.005 | 0.04 | <0.1 | 0.25 | 15.0 | <0.1 | <0.05 | 7 | 1.8 | <0.2 |
| 13LS127 | Soil | 29 | 0.75 | 78 | 0.075 | 2 | 2.29 | 0.006 | 0.03 | <0.1 | 0.11 | 9.7 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 13LS128 | Soil | 50 | 0.75 | 80 | 0.166 | 2 | 2.87 | 0.008 | 0.04 | 0.1 | 0.10 | 6.0 | <0.1 | <0.05 | 7 | 1.3 | <0.2 |
| 13LS129 | Soil | 18 | 0.85 | 276 | 0.009 | 5 | 1.74 | 0.008 | 0.04 | 0.1 | 0.37 | 14.2 | <0.1 | <0.05 | 4 | 1.0 | <0.2 |
| 13LS130 | Soil | 32 | 0.85 | 102 | 0.017 | 6 | 1.88 | 0.005 | 0.04 | 0.1 | 0.26 | 16.6 | <0.1 | <0.05 | 4 | 1.3 | <0.2 |
| 13LS131 | Soil | 36 | 0.70 | 126 | 0.070 | 2 | 2.91 | 0.006 | 0.03 | 0.1 | 0.42 | 4.9 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS132 | Soil | 37 | 0.57 | 66 | 0.159 | 2 | 2.78 | 0.007 | 0.03 | <0.1 | 0.40 | 8.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS133 | Soil | 45 | 0.60 | 147 | 0.151 | 2 | 3.01 | 0.008 | 0.03 | <0.1 | 0.28 | 8.4 | <0.1 | <0.05 | 7 | 0.6 | <0.2 |
| 13LS134 | Soil | 40 | 0.49 | 77 | 0.192 | 2 | 3.22 | 0.007 | 0.02 | <0.1 | 0.10 | 5.7 | <0.1 | <0.05 | 7 | 0.9 | <0.2 |
| 13LS135 | Soil | 52 | 0.64 | 81 | 0.188 | 3 | 3.21 | 0.007 | 0.03 | 0.1 | 0.14 | 6.0 | <0.1 | <0.05 | 7 | 1.1 | <0.2 |
| 13LS136 | Soil | 53 | 0.77 | 91 | 0.073 | 3 | 2.73 | 0.006 | 0.04 | <0.1 | 0.07 | 6.1 | <0.1 | <0.05 | 6 | 0.7 | <0.2 |
| 13LS137 | Soil | 31 | 0.24 | 35 | 0.136 | 2 | 2.41 | 0.006 | 0.01 | <0.1 | 0.06 | 3.7 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS138 | Soil | 26 | 0.39 | 57 | 0.113 | 1 | 1.78 | 0.005 | 0.03 | <0.1 | 0.10 | 5.9 | <0.1 | <0.05 | 4 | <0.5 | <0.2 |
| 13LS139 | Soil | 55 | 0.49 | 63 | 0.128 | 2 | 3.23 | 0.005 | 0.02 | <0.1 | 0.07 | 4.3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS140 | Soil | 77 | 0.80 | 59 | 0.061 | 2 | 3.27 | 0.005 | 0.03 | <0.1 | 0.10 | 6.6 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS141 | Soil | 64 | 0.77 | 55 | 0.045 | 2 | 2.81 | 0.004 | 0.02 | <0.1 | 0.11 | 5.5 | <0.1 | <0.05 | 6 | 1.0 | <0.2 |
| 13LS142 | Soil | 39 | 0.44 | 37 | 0.166 | 2 | 3.14 | 0.006 | 0.01 | <0.1 | 0.11 | 7.1 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS143 | Soil | 99 | 0.56 | 51 | 0.067 | 2 | 2.98 | 0.004 | 0.02 | <0.1 | 0.12 | 5.2 | <0.1 | <0.05 | 7 | 0.9 | <0.2 |
| 13LS144 | Soil | 109 | 1.09 | 60 | 0.096 | 4 | 3.27 | 0.005 | 0.04 | 0.1 | 0.09 | 8.2 | <0.1 | <0.05 | 6 | 0.8 | <0.2 |
| 13LS145 | Soil | 146 | 1.24 | 35 | 0.138 | 3 | 4.06 | 0.006 | 0.02 | 0.1 | 0.14 | 10.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS146 | Soil | 60 | 0.63 | 73 | 0.045 | 2 | 2.80 | 0.008 | 0.03 | <0.1 | 0.15 | 6.4 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS147 | Soil | 77 | 0.94 | 81 | 0.059 | 4 | 2.51 | 0.009 | 0.03 | 0.2 | 0.19 | 5.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS148 | Soil | 43 | 0.37 | 67 | 0.057 | 2 | 2.80 | 0.006 | 0.02 | <0.1 | 0.12 | 3.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS149 | Soil | 102 | 1.24 | 84 | 0.027 | 2 | 3.02 | 0.006 | 0.04 | 0.1 | 0.21 | 7.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS150 | Soil | 71 | 0.66 | 84 | 0.112 | 3 | 3.39 | 0.012 | 0.03 | 0.2 | 0.41 | 10.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |

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CERTIFICATE OF ANALYSIS

VAN13000972.1

| Method Analyte | 1DX15 | | | | | | | | | | | | | | | | | | | | |
|----------------|-----------|------|------|------|--------|------|------|------|------|------|------|-------|-----|-----|------|------|------|------|-------|-------|----|
| | 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 | |
| 13LS151 | Rock Pulp | 29.1 | 6934 | 4287 | >10000 | 67.8 | 35.4 | 49.6 | 483 | 4.59 | 52.1 | 523.2 | 3.8 | 31 | 62.6 | 73.5 | 11.1 | 54 | 0.72 | 0.048 | 10 |
| 13LS152 | Soil | 0.4 | 56.0 | 7.4 | 51 | 0.1 | 24.1 | 12.8 | 486 | 3.26 | 4.5 | 1.8 | 0.8 | 11 | 0.2 | 0.8 | <0.1 | 98 | 0.23 | 0.090 | 4 |
| 13LS153 | Soil | 0.3 | 80.6 | 2.6 | 36 | <0.1 | 30.4 | 14.7 | 332 | 3.15 | 4.3 | 4.3 | 0.8 | 14 | <0.1 | 0.4 | <0.1 | 90 | 0.24 | 0.057 | 3 |
| 13LS154 | Soil | 0.6 | 62.4 | 3.4 | 32 | 0.1 | 30.5 | 14.2 | 215 | 3.71 | 6.2 | 1.2 | 1.0 | 10 | <0.1 | 0.4 | <0.1 | 109 | 0.22 | 0.045 | 4 |
| 13LS155 | Soil | 0.5 | 64.8 | 3.7 | 36 | <0.1 | 36.3 | 13.9 | 265 | 3.51 | 7.6 | 0.6 | 0.9 | 13 | <0.1 | 0.5 | <0.1 | 102 | 0.22 | 0.061 | 3 |
| 13LS156 | Soil | 0.5 | 57.1 | 3.6 | 35 | <0.1 | 30.9 | 14.3 | 264 | 3.77 | 3.4 | 0.6 | 1.0 | 11 | <0.1 | 0.6 | <0.1 | 112 | 0.18 | 0.045 | 3 |
| 13LS157 | Soil | 0.7 | 54.6 | 4.0 | 37 | 0.1 | 36.7 | 17.1 | 267 | 4.47 | 4.6 | 2.7 | 0.9 | 14 | <0.1 | 0.7 | <0.1 | 146 | 0.22 | 0.041 | 5 |
| 13LS158 | Soil | 0.3 | 40.5 | 4.1 | 32 | <0.1 | 19.2 | 9.7 | 395 | 2.94 | 2.2 | 1.0 | 0.7 | 11 | 0.1 | 0.2 | <0.1 | 92 | 0.26 | 0.057 | 4 |
| 13LS159 | Soil | 0.3 | 41.9 | 4.5 | 44 | <0.1 | 28.4 | 14.0 | 865 | 4.03 | 2.6 | 1.9 | 1.0 | 12 | <0.1 | 0.4 | <0.1 | 118 | 0.32 | 0.064 | 4 |
| 13LS160 | Soil | 0.2 | 40.8 | 4.0 | 43 | <0.1 | 26.7 | 13.2 | 322 | 3.57 | 4.7 | 3.7 | 1.0 | 10 | <0.1 | 0.4 | <0.1 | 113 | 0.29 | 0.039 | 4 |
| 13LS161 | Soil | 0.3 | 30.8 | 4.7 | 49 | <0.1 | 28.0 | 12.4 | 293 | 3.46 | 4.4 | 1.4 | 1.0 | 12 | <0.1 | 0.4 | <0.1 | 99 | 0.29 | 0.044 | 5 |
| 13LS162 | Soil | 0.4 | 34.1 | 5.7 | 46 | 0.1 | 28.8 | 14.3 | 554 | 3.76 | 5.6 | 2.0 | 1.1 | 19 | <0.1 | 0.6 | <0.1 | 103 | 0.33 | 0.079 | 5 |
| 13LS163 | Soil | 0.4 | 58.8 | 4.0 | 36 | <0.1 | 23.3 | 11.3 | 301 | 3.19 | 3.8 | 4.1 | 1.3 | 10 | <0.1 | 0.5 | <0.1 | 102 | 0.21 | 0.058 | 5 |
| 13LS164 | Soil | 0.6 | 52.0 | 4.2 | 40 | <0.1 | 31.5 | 13.4 | 275 | 4.06 | 8.5 | 4.2 | 1.1 | 11 | <0.1 | 0.9 | <0.1 | 138 | 0.27 | 0.071 | 4 |
| 13LS165 | Soil | 0.6 | 49.6 | 4.4 | 49 | <0.1 | 29.9 | 15.1 | 558 | 3.64 | 6.1 | 4.2 | 1.2 | 13 | <0.1 | 0.7 | <0.1 | 112 | 0.33 | 0.050 | 5 |
| 13LS166 | Soil | 0.6 | 41.5 | 3.4 | 39 | <0.1 | 29.1 | 13.2 | 535 | 3.49 | 5.0 | <0.5 | 0.9 | 12 | <0.1 | 0.8 | <0.1 | 108 | 0.38 | 0.049 | 5 |
| 13LS167 | Soil | 0.8 | 46.1 | 3.7 | 47 | 0.1 | 23.0 | 14.1 | 677 | 3.23 | 2.9 | 1.1 | 0.8 | 13 | <0.1 | 0.4 | <0.1 | 101 | 0.29 | 0.048 | 11 |
| 13LS168 | Soil | 0.5 | 50.2 | 5.1 | 62 | <0.1 | 30.1 | 18.7 | 1574 | 3.97 | 4.5 | 2.1 | 0.7 | 19 | <0.1 | 0.6 | <0.1 | 110 | 0.28 | 0.136 | 4 |
| 13LS169 | Soil | 0.8 | 35.7 | 4.5 | 30 | <0.1 | 28.9 | 16.8 | 624 | 3.91 | 5.5 | 0.8 | 0.4 | 27 | <0.1 | 0.9 | <0.1 | 122 | 0.62 | 0.054 | 6 |
| 13LS170 | Soil | 1.3 | 57.7 | 4.1 | 36 | 0.2 | 69.3 | 23.1 | 317 | 5.19 | 45.8 | 1.6 | 0.6 | 8 | <0.1 | 8.1 | <0.1 | 147 | 0.16 | 0.051 | 6 |
| 13LS171 | Soil | 0.9 | 86.4 | 4.2 | 48 | 0.2 | 37.0 | 18.7 | 396 | 4.41 | 12.9 | 3.2 | 1.0 | 12 | <0.1 | 1.1 | <0.1 | 132 | 0.27 | 0.055 | 5 |
| 13LS172 | Soil | 0.6 | 60.3 | 4.4 | 44 | 0.1 | 32.1 | 15.3 | 425 | 3.88 | 13.5 | 0.7 | 1.0 | 10 | <0.1 | 1.2 | <0.1 | 113 | 0.26 | 0.087 | 5 |
| 13LS173 | Soil | 0.6 | 64.2 | 4.4 | 40 | <0.1 | 29.0 | 13.2 | 209 | 3.52 | 11.0 | 1.5 | 1.4 | 7 | <0.1 | 0.7 | <0.1 | 108 | 0.20 | 0.059 | 6 |
| 13LS174 | Soil | 0.7 | 66.8 | 3.7 | 46 | <0.1 | 31.0 | 13.8 | 317 | 3.68 | 10.3 | 1.3 | 1.1 | 9 | <0.1 | 1.1 | <0.1 | 107 | 0.22 | 0.155 | 4 |
| 13LS175 | Soil | 0.7 | 41.0 | 3.8 | 37 | <0.1 | 25.9 | 13.4 | 180 | 3.35 | 5.4 | 1.0 | 1.1 | 8 | 0.1 | 0.6 | <0.1 | 97 | 0.22 | 0.071 | 4 |
| 13LS176 | Soil | 0.5 | 42.1 | 4.8 | 58 | 0.1 | 16.9 | 10.5 | 385 | 3.97 | 4.3 | <0.5 | 1.0 | 10 | 0.1 | 0.4 | <0.1 | 110 | 0.20 | 0.148 | 4 |
| 13LS177 | Soil | 0.3 | 31.3 | 4.2 | 69 | 0.1 | 25.9 | 15.4 | 877 | 3.84 | 2.7 | 1.5 | 0.6 | 12 | 0.1 | 0.5 | <0.1 | 102 | 0.35 | 0.086 | 5 |
| 13LS178 | Soil | 0.3 | 44.8 | 3.9 | 49 | <0.1 | 21.9 | 12.8 | 712 | 3.38 | 4.5 | 2.4 | 0.9 | 12 | <0.1 | 0.4 | <0.1 | 104 | 0.39 | 0.089 | 4 |
| 13LS179 | Soil | 0.4 | 38.3 | 4.3 | 62 | <0.1 | 23.6 | 15.4 | 424 | 3.62 | 2.8 | <0.5 | 0.8 | 13 | 0.1 | 0.5 | <0.1 | 101 | 0.23 | 0.034 | 3 |
| 13LS180 | Soil | 0.4 | 45.2 | 3.8 | 56 | 0.1 | 24.9 | 11.9 | 314 | 3.05 | 6.6 | 3.2 | 0.9 | 9 | 0.2 | 1.2 | <0.1 | 90 | 0.21 | 0.125 | 3 |



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Part: 2 of 1

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| Method | Analyte | 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 |
| 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 | 0.05 | 1 | 0.5 | 0.2 | |
| 13LS151 | Rock Pulp | 34 | 1.00 | 57 | 0.109 | 4 | 1.48 | 0.093 | 0.21 | 28.4 | 1.66 | 4.3 | 1.7 | 2.93 | 9 | 4.0 | <0.2 |
| 13LS152 | Soil | 66 | 0.70 | 52 | 0.101 | 2 | 2.38 | 0.008 | 0.02 | 0.1 | 0.13 | 5.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS153 | Soil | 75 | 0.87 | 53 | 0.105 | 2 | 2.41 | 0.008 | 0.03 | 0.1 | 0.10 | 6.0 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS154 | Soil | 82 | 0.60 | 43 | 0.132 | 2 | 3.08 | 0.009 | 0.02 | <0.1 | 0.06 | 6.4 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |
| 13LS155 | Soil | 97 | 0.72 | 44 | 0.124 | 2 | 2.85 | 0.009 | 0.03 | <0.1 | 0.09 | 4.0 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS156 | Soil | 74 | 0.53 | 73 | 0.052 | 2 | 3.06 | 0.006 | 0.03 | <0.1 | 0.07 | 5.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS157 | Soil | 98 | 0.67 | 122 | 0.114 | 2 | 3.55 | 0.008 | 0.03 | <0.1 | 0.07 | 7.0 | <0.1 | <0.05 | 10 | <0.5 | <0.2 |
| 13LS158 | Soil | 44 | 0.40 | 105 | 0.114 | 2 | 1.98 | 0.008 | 0.02 | <0.1 | 0.04 | 4.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS159 | Soil | 78 | 0.64 | 120 | 0.176 | 3 | 2.60 | 0.010 | 0.04 | <0.1 | 0.04 | 8.3 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| 13LS160 | Soil | 54 | 0.66 | 76 | 0.116 | 3 | 2.58 | 0.008 | 0.03 | <0.1 | 0.06 | 6.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS161 | Soil | 60 | 0.62 | 102 | 0.105 | 3 | 2.78 | 0.008 | 0.04 | <0.1 | 0.07 | 7.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS162 | Soil | 68 | 0.58 | 113 | 0.148 | 2 | 2.82 | 0.009 | 0.04 | <0.1 | 0.12 | 6.2 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| 13LS163 | Soil | 60 | 0.50 | 65 | 0.147 | 2 | 2.93 | 0.009 | 0.03 | <0.1 | 0.09 | 8.7 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |
| 13LS164 | Soil | 74 | 0.64 | 53 | 0.157 | 2 | 3.23 | 0.008 | 0.03 | <0.1 | 0.12 | 6.4 | <0.1 | <0.05 | 9 | 0.8 | <0.2 |
| 13LS165 | Soil | 59 | 0.77 | 84 | 0.152 | 3 | 3.07 | 0.009 | 0.04 | <0.1 | 0.07 | 7.4 | <0.1 | <0.05 | 8 | 0.5 | <0.2 |
| 13LS166 | Soil | 55 | 0.58 | 108 | 0.113 | 2 | 3.02 | 0.008 | 0.03 | <0.1 | 0.07 | 5.5 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS167 | Soil | 45 | 0.48 | 136 | 0.103 | 2 | 2.86 | 0.007 | 0.03 | <0.1 | 0.13 | 7.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS168 | Soil | 102 | 0.72 | 132 | 0.076 | 2 | 2.45 | 0.007 | 0.04 | <0.1 | 0.06 | 5.5 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| 13LS169 | Soil | 67 | 0.38 | 173 | 0.021 | 1 | 2.79 | 0.007 | 0.02 | <0.1 | 0.08 | 4.9 | <0.1 | <0.05 | 8 | 0.7 | <0.2 |
| 13LS170 | Soil | 142 | 0.50 | 129 | 0.016 | 2 | 3.03 | 0.005 | 0.03 | 0.2 | 0.41 | 8.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS171 | Soil | 81 | 0.77 | 80 | 0.115 | 3 | 3.20 | 0.008 | 0.03 | <0.1 | 0.40 | 8.7 | <0.1 | <0.05 | 8 | 0.9 | <0.2 |
| 13LS172 | Soil | 62 | 0.49 | 65 | 0.112 | 2 | 2.79 | 0.007 | 0.03 | <0.1 | 0.09 | 6.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS173 | Soil | 58 | 0.47 | 41 | 0.132 | 2 | 3.39 | 0.008 | 0.03 | <0.1 | 0.17 | 9.2 | <0.1 | <0.05 | 8 | 0.9 | <0.2 |
| 13LS174 | Soil | 66 | 0.63 | 41 | 0.087 | 3 | 3.09 | 0.006 | 0.03 | <0.1 | 0.10 | 6.0 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS175 | Soil | 45 | 0.42 | 39 | 0.101 | 2 | 3.06 | 0.008 | 0.02 | <0.1 | 0.15 | 5.3 | <0.1 | <0.05 | 7 | 0.6 | <0.2 |
| 13LS176 | Soil | 58 | 0.28 | 45 | 0.110 | 2 | 2.98 | 0.007 | 0.03 | <0.1 | 0.09 | 5.5 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| 13LS177 | Soil | 50 | 0.44 | 68 | 0.073 | 2 | 2.61 | 0.007 | 0.03 | <0.1 | 0.08 | 4.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS178 | Soil | 50 | 0.51 | 60 | 0.138 | 2 | 2.32 | 0.008 | 0.03 | <0.1 | 0.08 | 5.0 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS179 | Soil | 73 | 0.50 | 47 | 0.162 | 1 | 2.30 | 0.007 | 0.02 | <0.1 | 0.05 | 4.4 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS180 | Soil | 61 | 0.60 | 37 | 0.106 | 1 | 2.19 | 0.005 | 0.02 | 0.1 | 0.12 | 4.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |

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| Method Analyte | 1DX15 | | | | | | | | | | | | | | | | | | | | |
|----------------|-----------|-----|-------|-----|-----|------|-------|------|------|------|-------|-------|-----|-----|------|------|------|------|-------|-------|----|
| | 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 | |
| 13LS181 | Soil | 0.6 | 90.5 | 3.3 | 39 | <0.1 | 43.3 | 18.4 | 345 | 4.22 | 8.0 | 3.7 | 0.9 | 10 | <0.1 | 1.3 | <0.1 | 106 | 0.20 | 0.028 | 3 |
| 13LS182 | Soil | 0.8 | 62.2 | 3.7 | 33 | <0.1 | 22.0 | 10.2 | 243 | 3.52 | 9.1 | 7.0 | 1.3 | 9 | <0.1 | 0.8 | 0.3 | 99 | 0.23 | 0.067 | 5 |
| 13LS183 | Soil | 0.6 | 19.2 | 4.2 | 27 | <0.1 | 14.4 | 7.8 | 159 | 3.48 | 2.7 | 3.8 | 0.6 | 8 | <0.1 | 0.3 | 0.1 | 106 | 0.21 | 0.040 | 4 |
| 13LS184 | Soil | 0.5 | 37.1 | 3.4 | 26 | <0.1 | 20.8 | 11.2 | 261 | 3.53 | 5.0 | 3.3 | 0.9 | 11 | <0.1 | 0.5 | <0.1 | 94 | 0.40 | 0.030 | 5 |
| 13LS185 | Soil | 0.7 | 143.0 | 2.3 | 63 | <0.1 | 107.0 | 32.0 | 531 | 7.31 | 21.7 | 9.4 | 0.6 | 5 | <0.1 | 4.0 | <0.1 | 139 | 0.08 | 0.068 | 5 |
| 13LS186 | Soil | 0.8 | 81.3 | 4.5 | 47 | 0.1 | 52.8 | 23.5 | 281 | 4.97 | 13.6 | 2.0 | 1.0 | 16 | <0.1 | 0.7 | <0.1 | 129 | 0.42 | 0.078 | 5 |
| 13LS187 | Soil | 1.0 | 59.0 | 5.1 | 64 | 0.1 | 34.1 | 15.5 | 332 | 5.06 | 4.8 | 1.7 | 1.2 | 11 | <0.1 | 0.5 | <0.1 | 132 | 0.27 | 0.039 | 6 |
| 13LS188 | Soil | 0.7 | 39.9 | 5.5 | 45 | <0.1 | 24.8 | 13.0 | 623 | 3.66 | 4.5 | 3.9 | 0.8 | 11 | <0.1 | 0.4 | <0.1 | 104 | 0.25 | 0.049 | 5 |
| 13LS189 | Soil | 1.1 | 130.9 | 4.7 | 60 | <0.1 | 28.4 | 17.4 | 513 | 4.63 | 5.6 | 2.1 | 1.1 | 9 | 0.1 | 0.7 | <0.1 | 119 | 0.22 | 0.086 | 5 |
| 13LS190 | Soil | 1.0 | 54.7 | 4.6 | 51 | 0.1 | 23.2 | 14.2 | 258 | 4.47 | 4.2 | 0.8 | 1.0 | 11 | <0.1 | 1.1 | <0.1 | 115 | 0.24 | 0.064 | 7 |
| 13LS191 | Soil | 0.6 | 45.4 | 5.1 | 57 | <0.1 | 23.7 | 12.9 | 403 | 4.08 | 4.4 | 6.4 | 1.0 | 11 | <0.1 | 0.4 | <0.1 | 113 | 0.26 | 0.053 | 4 |
| 13LS192 | Soil | 1.2 | 50.6 | 4.6 | 66 | 0.1 | 33.6 | 15.5 | 390 | 4.54 | 6.3 | 1.7 | 1.0 | 9 | <0.1 | 0.6 | <0.1 | 140 | 0.26 | 0.096 | 3 |
| 13LS193 | Soil | 0.9 | 63.8 | 5.1 | 50 | 0.1 | 27.7 | 13.8 | 482 | 4.55 | 9.0 | 5.6 | 1.2 | 9 | <0.1 | 1.8 | <0.1 | 119 | 0.25 | 0.060 | 6 |
| 13LS194 | Soil | 2.1 | 49.6 | 5.5 | 61 | <0.1 | 33.8 | 22.3 | 654 | 6.27 | 9.1 | 3.5 | 1.2 | 10 | <0.1 | 1.1 | <0.1 | 154 | 0.27 | 0.068 | 9 |
| 13LS195 | Soil | 1.5 | 61.1 | 4.5 | 41 | <0.1 | 30.8 | 14.7 | 290 | 5.16 | 10.0 | 1.2 | 1.1 | 9 | <0.1 | 0.8 | <0.1 | 151 | 0.27 | 0.031 | 5 |
| 13LS196 | Soil | 1.4 | 42.8 | 6.2 | 56 | <0.1 | 27.3 | 13.3 | 339 | 4.63 | 4.1 | <0.5 | 0.8 | 9 | <0.1 | 0.4 | <0.1 | 132 | 0.22 | 0.056 | 4 |
| 13LS197 | Soil | 0.9 | 45.5 | 5.4 | 58 | 0.1 | 26.4 | 14.3 | 481 | 4.28 | 5.5 | 3.4 | 0.8 | 9 | <0.1 | 0.4 | <0.1 | 121 | 0.25 | 0.056 | 3 |
| 13LS198 | Soil | 1.0 | 76.1 | 4.6 | 56 | 0.1 | 37.0 | 16.7 | 296 | 5.19 | 8.5 | 2.1 | 1.3 | 9 | <0.1 | 0.7 | <0.1 | 162 | 0.25 | 0.051 | 6 |
| 13LS199 | Soil | 0.4 | 69.0 | 4.5 | 46 | <0.1 | 39.6 | 16.0 | 391 | 5.01 | 9.0 | 3.5 | 1.5 | 9 | <0.1 | 0.9 | <0.1 | 143 | 0.27 | 0.017 | 9 |
| 13LS200 | Soil | 0.5 | 60.8 | 4.4 | 62 | 0.1 | 36.0 | 15.4 | 363 | 4.39 | 4.8 | 5.4 | 1.0 | 8 | <0.1 | 0.5 | <0.1 | 105 | 0.21 | 0.062 | 5 |
| 13LS201 | Soil | 0.5 | 29.5 | 5.7 | 48 | <0.1 | 20.7 | 12.0 | 295 | 4.10 | 4.4 | 1.8 | 0.9 | 11 | <0.1 | 0.4 | <0.1 | 118 | 0.28 | 0.042 | 4 |
| 13LS202 | Soil | 0.8 | 88.2 | 7.6 | 57 | <0.1 | 34.1 | 17.2 | 430 | 5.15 | 8.2 | 4.6 | 1.2 | 35 | <0.1 | 1.4 | <0.1 | 157 | 0.28 | 0.053 | 4 |
| 13LS203 | Rock Pulp | 6.8 | 48.0 | 4.8 | 51 | 0.5 | 33.5 | 14.9 | 474 | 3.22 | 6.3 | 584.5 | 1.4 | 39 | 0.3 | 1.0 | <0.1 | 67 | 0.86 | 0.050 | 7 |
| 13LS204 | Soil | 0.5 | 61.6 | 4.0 | 56 | <0.1 | 33.9 | 15.6 | 474 | 4.55 | 8.4 | 2.5 | 1.1 | 9 | <0.1 | 0.5 | <0.1 | 139 | 0.30 | 0.038 | 5 |
| 13LS205 | Soil | 0.7 | 28.4 | 5.5 | 68 | <0.1 | 33.2 | 16.8 | 253 | 5.21 | 5.0 | 2.2 | 0.7 | 9 | <0.1 | 0.5 | <0.1 | 144 | 0.22 | 0.024 | 3 |
| 13LS206 | Soil | 0.5 | 77.9 | 6.2 | 66 | <0.1 | 102.6 | 37.3 | 1734 | 7.91 | 103.6 | 2.5 | 1.0 | 8 | <0.1 | 21.4 | <0.1 | 186 | 0.19 | 0.040 | 9 |
| 13LS207 | Soil | 0.4 | 87.2 | 6.0 | 66 | <0.1 | 76.4 | 29.3 | 932 | 5.85 | 57.0 | 4.1 | 0.9 | 11 | 0.2 | 12.6 | <0.1 | 153 | 0.35 | 0.037 | 8 |
| 13LS208 | Soil | 0.4 | 69.2 | 6.4 | 53 | 0.1 | 47.3 | 22.6 | 972 | 4.90 | 11.0 | 3.6 | 1.2 | 14 | 0.2 | 2.7 | <0.1 | 130 | 0.40 | 0.035 | 15 |
| 13LS209 | Soil | 0.2 | 56.6 | 7.3 | 51 | <0.1 | 43.8 | 23.1 | 1020 | 5.04 | 8.5 | 3.8 | 0.9 | 14 | <0.1 | 2.1 | <0.1 | 140 | 0.37 | 0.032 | 7 |
| 13LS210 | Soil | 0.5 | 57.4 | 5.8 | 57 | <0.1 | 46.1 | 22.2 | 540 | 5.71 | 30.2 | 4.0 | 1.1 | 11 | <0.1 | 7.4 | <0.1 | 148 | 0.31 | 0.029 | 10 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: Lacey
 Report Date: April 04, 2013

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CERTIFICATE OF ANALYSIS

VAN13000972.1

| Method | Analyte | 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 |
| Unit | | ppm | % | 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 | 0.05 | 1 | 0.5 | 0.2 | |
| 13LS181 | Soil | 82 | 1.12 | 63 | 0.135 | 3 | 3.14 | 0.006 | 0.02 | <0.1 | 0.13 | 5.5 | <0.1 | <0.05 | 6 | 0.6 | <0.2 |
| 13LS182 | Soil | 52 | 0.63 | 41 | 0.163 | 5 | 2.60 | 0.008 | 0.03 | 0.2 | 0.12 | 7.3 | 0.2 | <0.05 | 7 | 0.8 | <0.2 |
| 13LS183 | Soil | 34 | 0.24 | 61 | 0.131 | <1 | 2.02 | 0.006 | 0.02 | <0.1 | 0.16 | 2.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS184 | Soil | 37 | 0.40 | 68 | 0.138 | <1 | 2.82 | 0.008 | 0.02 | <0.1 | 0.11 | 4.0 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS185 | Soil | 252 | 1.98 | 84 | 0.006 | 1 | 3.79 | 0.004 | 0.06 | <0.1 | 0.40 | 14.2 | <0.1 | <0.05 | 8 | 1.3 | <0.2 |
| 13LS186 | Soil | 91 | 0.68 | 51 | 0.171 | 2 | 3.49 | 0.007 | 0.03 | <0.1 | 0.08 | 5.6 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS187 | Soil | 52 | 0.61 | 84 | 0.182 | 3 | 3.60 | 0.008 | 0.03 | <0.1 | 0.15 | 7.3 | <0.1 | <0.05 | 9 | 0.7 | <0.2 |
| 13LS188 | Soil | 40 | 0.43 | 82 | 0.124 | <1 | 2.64 | 0.007 | 0.02 | <0.1 | 0.10 | 5.0 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS189 | Soil | 42 | 0.48 | 93 | 0.112 | 2 | 3.72 | 0.006 | 0.04 | <0.1 | 0.09 | 4.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS190 | Soil | 37 | 0.39 | 117 | 0.092 | <1 | 3.59 | 0.006 | 0.04 | <0.1 | 0.17 | 4.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS191 | Soil | 36 | 0.35 | 89 | 0.166 | <1 | 2.43 | 0.007 | 0.02 | <0.1 | 0.11 | 4.3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS192 | Soil | 44 | 0.45 | 99 | 0.195 | <1 | 4.42 | 0.006 | 0.02 | <0.1 | 0.12 | 4.3 | <0.1 | <0.05 | 9 | 0.9 | <0.2 |
| 13LS193 | Soil | 43 | 0.43 | 123 | 0.121 | 3 | 2.83 | 0.006 | 0.03 | <0.1 | 0.35 | 7.3 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS194 | Soil | 54 | 0.36 | 69 | 0.212 | <1 | 3.53 | 0.007 | 0.02 | <0.1 | 0.11 | 8.9 | <0.1 | <0.05 | 9 | 0.8 | <0.2 |
| 13LS195 | Soil | 51 | 0.49 | 50 | 0.209 | 2 | 3.20 | 0.006 | 0.03 | <0.1 | 0.12 | 7.0 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| 13LS196 | Soil | 43 | 0.28 | 80 | 0.183 | <1 | 3.26 | 0.006 | 0.02 | <0.1 | 0.11 | 3.8 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| 13LS197 | Soil | 37 | 0.33 | 90 | 0.159 | 2 | 2.76 | 0.006 | 0.03 | <0.1 | 0.08 | 3.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS198 | Soil | 56 | 0.58 | 65 | 0.219 | <1 | 4.27 | 0.006 | 0.02 | <0.1 | 0.13 | 9.1 | <0.1 | <0.05 | 9 | 0.6 | <0.2 |
| 13LS199 | Soil | 58 | 0.69 | 85 | 0.187 | 1 | 3.04 | 0.007 | 0.02 | <0.1 | 0.05 | 15.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS200 | Soil | 41 | 0.58 | 118 | 0.069 | <1 | 2.99 | 0.007 | 0.03 | <0.1 | 0.17 | 5.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS201 | Soil | 41 | 0.37 | 81 | 0.132 | <1 | 2.22 | 0.007 | 0.02 | <0.1 | 0.05 | 3.6 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS202 | Soil | 50 | 0.55 | 113 | 0.073 | 4 | 3.34 | 0.006 | 0.03 | <0.1 | 0.14 | 6.2 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |
| 13LS203 | Rock Pulp | 37 | 0.70 | 142 | 0.139 | 3 | 1.56 | 0.117 | 0.13 | 24.8 | 0.04 | 5.3 | <0.1 | 0.05 | 5 | <0.5 | <0.2 |
| 13LS204 | Soil | 50 | 0.54 | 96 | 0.196 | 2 | 2.98 | 0.007 | 0.02 | <0.1 | 0.13 | 6.2 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS205 | Soil | 52 | 0.35 | 80 | 0.163 | <1 | 2.66 | 0.006 | 0.02 | <0.1 | 0.09 | 3.1 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS206 | Soil | 148 | 0.41 | 96 | 0.029 | <1 | 2.24 | 0.005 | 0.03 | 0.3 | 1.00 | 23.6 | <0.1 | <0.05 | 5 | 1.0 | <0.2 |
| 13LS207 | Soil | 126 | 1.01 | 89 | 0.050 | <1 | 2.18 | 0.007 | 0.03 | 0.1 | 0.52 | 17.8 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 13LS208 | Soil | 90 | 0.75 | 185 | 0.115 | 3 | 3.20 | 0.009 | 0.02 | <0.1 | 0.17 | 17.5 | <0.1 | <0.05 | 7 | 0.8 | <0.2 |
| 13LS209 | Soil | 87 | 1.26 | 113 | 0.109 | 3 | 2.95 | 0.007 | 0.03 | <0.1 | 0.13 | 10.4 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS210 | Soil | 68 | 0.49 | 123 | 0.104 | 2 | 3.16 | 0.007 | 0.04 | 0.1 | 0.17 | 11.0 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |



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Project: Lacey
Report Date: April 04, 2013

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CERTIFICATE OF ANALYSIS

VAN13000972.1

| | Method | 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 | % | % | 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 | |
| 13LS211 | Soil | 0.2 | 65.0 | 3.5 | 51 | <0.1 | 56.1 | 22.0 | 598 | 5.20 | 19.2 | 6.0 | 1.2 | 14 | <0.1 | 5.0 | <0.1 | 125 | 0.43 | 0.021 | 7 | |
| 13LS212 | Soil | 0.6 | 76.3 | 6.5 | 73 | 0.1 | 63.0 | 26.3 | 897 | 6.65 | 44.5 | 3.5 | 1.1 | 10 | <0.1 | 10.1 | <0.1 | 166 | 0.25 | 0.058 | 8 | |
| 13LS213 | Soil | 0.6 | 70.7 | 9.8 | 55 | <0.1 | 42.7 | 23.2 | 895 | 4.93 | 28.8 | 1.6 | 0.9 | 11 | <0.1 | 6.2 | <0.1 | 130 | 0.30 | 0.028 | 6 | |
| 13LS214 | Soil | 1.3 | 49.0 | 6.0 | 45 | 0.1 | 33.2 | 16.2 | 353 | 5.47 | 6.6 | 2.5 | 1.0 | 9 | 0.2 | 1.0 | <0.1 | 158 | 0.32 | 0.041 | 5 | |
| 13LS215 | Soil | 0.9 | 45.4 | 5.8 | 51 | <0.1 | 31.2 | 17.8 | 644 | 5.19 | 6.5 | 12.7 | 1.0 | 9 | <0.1 | 0.7 | <0.1 | 137 | 0.27 | 0.041 | 5 | |
| 13LS216 | Soil | 0.6 | 40.4 | 6.7 | 59 | <0.1 | 33.1 | 15.3 | 501 | 4.93 | 8.5 | 4.0 | 0.8 | 10 | 0.1 | 1.0 | <0.1 | 131 | 0.30 | 0.041 | 5 | |
| 13LS217 | Soil | 1.1 | 85.1 | 5.6 | 75 | 0.1 | 36.7 | 17.8 | 895 | 4.41 | 11.4 | 20.3 | 1.3 | 8 | 0.2 | 1.2 | 0.2 | 126 | 0.30 | 0.088 | 7 | |
| 13LS218 | Soil | 0.5 | 47.6 | 6.7 | 78 | 0.2 | 28.4 | 15.2 | 673 | 4.02 | 9.2 | 7.6 | 0.9 | 7 | 0.2 | 0.8 | 0.2 | 115 | 0.21 | 0.096 | 4 | |
| 13LS219 | Soil | 0.4 | 12.1 | 6.1 | 51 | <0.1 | 20.4 | 11.1 | 300 | 2.37 | 23.4 | 0.6 | 0.5 | 4 | 0.2 | 1.6 | <0.1 | 41 | 0.10 | 0.049 | 5 | |
| 13LS220 | Soil | 0.4 | 64.2 | 4.8 | 65 | <0.1 | 37.5 | 15.0 | 484 | 3.91 | 9.9 | 3.0 | 1.0 | 10 | 0.3 | 0.9 | <0.1 | 118 | 0.27 | 0.051 | 5 | |
| 13LS221 | Soil | 1.4 | 39.6 | 13.2 | 95 | <0.1 | 27.7 | 13.5 | 537 | 4.30 | 37.6 | 4.3 | 1.0 | 5 | 0.8 | 10.7 | <0.1 | 67 | 0.18 | 0.062 | 21 | |
| 13LS222 | Soil | 0.4 | 35.6 | 5.4 | 86 | <0.1 | 30.4 | 14.4 | 690 | 3.72 | 10.8 | 4.5 | 1.2 | 10 | 0.9 | 1.9 | <0.1 | 100 | 0.36 | 0.091 | 16 | |



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Project: Lacey
Report Date: April 04, 2013

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Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN13000972.1

| Method | Analyte | 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 |
| 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 | 0.05 | 1 | 0.5 | 0.2 | |
| 13LS211 | Soil | 63 | 0.78 | 143 | 0.124 | 1 | 2.62 | 0.009 | 0.04 | <0.1 | 0.49 | 12.9 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS212 | Soil | 102 | 0.58 | 99 | 0.064 | 1 | 3.57 | 0.008 | 0.03 | 0.3 | 0.38 | 9.3 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS213 | Soil | 69 | 0.98 | 88 | 0.049 | 2 | 2.35 | 0.007 | 0.03 | 0.1 | 0.24 | 10.1 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 13LS214 | Soil | 59 | 0.48 | 78 | 0.198 | <1 | 3.11 | 0.007 | 0.02 | <0.1 | 0.16 | 5.6 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS215 | Soil | 51 | 0.44 | 77 | 0.135 | <1 | 3.01 | 0.006 | 0.02 | <0.1 | 0.14 | 5.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS216 | Soil | 68 | 0.54 | 113 | 0.093 | 2 | 2.49 | 0.006 | 0.04 | <0.1 | 0.09 | 5.4 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS217 | Soil | 50 | 0.58 | 91 | 0.124 | 3 | 3.26 | 0.006 | 0.03 | <0.1 | 0.17 | 7.1 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS218 | Soil | 47 | 0.43 | 65 | 0.104 | 3 | 3.21 | 0.006 | 0.02 | <0.1 | 0.09 | 5.3 | <0.1 | <0.05 | 8 | 0.5 | <0.2 |
| 13LS219 | Soil | 14 | 0.10 | 44 | 0.009 | 2 | 1.38 | 0.003 | 0.02 | <0.1 | 0.06 | 2.6 | <0.1 | <0.05 | 2 | <0.5 | <0.2 |
| 13LS220 | Soil | 49 | 0.70 | 104 | 0.125 | 3 | 3.10 | 0.007 | 0.02 | <0.1 | 0.15 | 8.0 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS221 | Soil | 29 | 0.22 | 57 | 0.017 | 2 | 1.53 | 0.003 | 0.03 | 0.2 | 0.16 | 14.6 | <0.1 | <0.05 | 3 | <0.5 | <0.2 |
| 13LS222 | Soil | 40 | 0.52 | 62 | 0.120 | 2 | 2.37 | 0.007 | 0.02 | <0.1 | 0.08 | 10.3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |



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QUALITY CONTROL REPORT

VAN13000972.1

| 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 | | | | | | | | | | | | | | | | | | | | | |
| 13LS007 | Soil | 0.5 | 94.9 | 3.4 | 38 | <0.1 | 30.1 | 13.9 | 303 | 3.35 | 6.7 | 11.2 | 1.2 | 10 | <0.1 | 0.5 | <0.1 | 97 | 0.41 | 0.040 | 6 |
| REP 13LS007 | QC | 0.4 | 98.7 | 3.5 | 39 | <0.1 | 30.8 | 14.3 | 310 | 3.43 | 7.0 | 7.0 | 1.2 | 10 | <0.1 | 0.5 | <0.1 | 100 | 0.41 | 0.041 | 6 |
| 13LS009 | Soil | 0.4 | 64.8 | 2.5 | 33 | <0.1 | 24.0 | 10.1 | 324 | 2.44 | 3.1 | 4.0 | 0.9 | 8 | <0.1 | 0.2 | <0.1 | 76 | 0.25 | 0.025 | 3 |
| REP 13LS009 | QC | 0.4 | 66.4 | 2.5 | 33 | <0.1 | 23.9 | 11.2 | 337 | 2.62 | 3.3 | 3.9 | 1.0 | 9 | <0.1 | 0.2 | <0.1 | 82 | 0.28 | 0.024 | 3 |
| 13LS043 | Soil | 0.5 | 64.5 | 5.0 | 60 | 0.1 | 24.9 | 15.5 | 569 | 4.22 | 5.3 | 3.9 | 1.0 | 11 | 0.1 | 0.6 | 0.1 | 141 | 0.26 | 0.052 | 4 |
| REP 13LS043 | QC | 0.4 | 64.2 | 5.0 | 61 | 0.2 | 24.7 | 15.6 | 556 | 4.11 | 5.0 | 4.6 | 1.0 | 12 | <0.1 | 0.7 | <0.1 | 138 | 0.27 | 0.051 | 4 |
| 13LS045 | Soil | 0.2 | 12.5 | 4.3 | 31 | 0.2 | 6.6 | 4.0 | 172 | 2.01 | 1.0 | 4.1 | 0.7 | 18 | <0.1 | 0.3 | 0.1 | 69 | 0.20 | 0.024 | 4 |
| REP 13LS045 | QC | 0.3 | 12.6 | 4.2 | 36 | 0.2 | 6.5 | 4.0 | 176 | 2.03 | 1.1 | 1.3 | 0.6 | 19 | <0.1 | 0.3 | <0.1 | 71 | 0.20 | 0.025 | 4 |
| 13LS079 | Soil | 1.1 | 71.7 | 6.2 | 82 | <0.1 | 51.1 | 17.3 | 452 | 3.55 | 3.7 | 1.7 | 1.0 | 13 | <0.1 | 0.4 | <0.1 | 98 | 0.31 | 0.088 | 5 |
| REP 13LS079 | QC | 1.0 | 72.3 | 6.3 | 82 | <0.1 | 51.4 | 17.3 | 458 | 3.57 | 3.6 | 1.5 | 1.0 | 13 | <0.1 | 0.3 | <0.1 | 96 | 0.30 | 0.089 | 6 |
| 13LS081 | Soil | 1.4 | 66.8 | 13.8 | 84 | 0.1 | 28.8 | 17.1 | 613 | 4.75 | 3.3 | 0.8 | 1.4 | 18 | 0.2 | 0.5 | 0.2 | 125 | 0.28 | 0.120 | 5 |
| REP 13LS081 | QC | 1.3 | 66.7 | 13.9 | 85 | 0.1 | 28.6 | 16.7 | 609 | 4.64 | 3.4 | 1.5 | 1.3 | 18 | 0.2 | 0.6 | 0.2 | 124 | 0.28 | 0.118 | 5 |
| 13LS115 | Soil | 0.4 | 36.4 | 3.0 | 30 | <0.1 | 16.9 | 9.4 | 302 | 2.70 | 2.8 | 3.2 | 1.3 | 9 | <0.1 | 0.2 | <0.1 | 90 | 0.32 | 0.039 | 6 |
| REP 13LS115 | QC | 0.3 | 36.9 | 2.7 | 29 | <0.1 | 17.5 | 9.3 | 286 | 2.69 | 3.2 | 3.9 | 1.2 | 9 | <0.1 | 0.2 | <0.1 | 88 | 0.30 | 0.039 | 5 |
| 13LS117 | Soil | 0.7 | 100.4 | 13.8 | 63 | <0.1 | 44.8 | 24.4 | 1357 | 4.32 | 9.1 | 8.4 | 0.9 | 21 | 0.1 | 0.6 | <0.1 | 126 | 0.82 | 0.079 | 6 |
| REP 13LS117 | QC | 0.8 | 108.8 | 13.7 | 64 | <0.1 | 46.7 | 25.2 | 1322 | 4.31 | 10.4 | 10.3 | 1.0 | 22 | 0.1 | 0.7 | <0.1 | 132 | 0.81 | 0.084 | 7 |
| 13LS151 | Rock Pulp | 29.1 | 6934 | 4287 | >10000 | 67.8 | 35.4 | 49.6 | 483 | 4.59 | 52.1 | 523.2 | 3.8 | 31 | 62.6 | 73.5 | 11.1 | 54 | 0.72 | 0.048 | 10 |
| REP 13LS151 | QC | 30.9 | 7115 | 4299 | >10000 | 68.3 | 36.4 | 50.9 | 489 | 4.69 | 52.9 | 514.8 | 3.8 | 32 | 62.5 | 73.0 | 11.2 | 55 | 0.75 | 0.048 | 10 |
| 13LS153 | Soil | 0.3 | 80.6 | 2.6 | 36 | <0.1 | 30.4 | 14.7 | 332 | 3.15 | 4.3 | 4.3 | 0.8 | 14 | <0.1 | 0.4 | <0.1 | 90 | 0.24 | 0.057 | 3 |
| REP 13LS153 | QC | 0.3 | 80.2 | 2.7 | 36 | <0.1 | 30.8 | 15.1 | 347 | 3.18 | 4.2 | 2.5 | 0.9 | 15 | 0.1 | 0.4 | <0.1 | 94 | 0.24 | 0.059 | 3 |
| 13LS187 | Soil | 1.0 | 59.0 | 5.1 | 64 | 0.1 | 34.1 | 15.5 | 332 | 5.06 | 4.8 | 1.7 | 1.2 | 11 | <0.1 | 0.5 | <0.1 | 132 | 0.27 | 0.039 | 6 |
| REP 13LS187 | QC | 1.0 | 56.3 | 5.2 | 59 | 0.1 | 30.6 | 15.7 | 309 | 4.85 | 4.3 | 4.4 | 1.3 | 11 | 0.1 | 0.4 | <0.1 | 128 | 0.27 | 0.038 | 6 |
| 13LS189 | Soil | 1.1 | 130.9 | 4.7 | 60 | <0.1 | 28.4 | 17.4 | 513 | 4.63 | 5.6 | 2.1 | 1.1 | 9 | 0.1 | 0.7 | <0.1 | 119 | 0.22 | 0.086 | 5 |
| REP 13LS189 | QC | 1.0 | 135.1 | 4.5 | 62 | <0.1 | 29.0 | 16.8 | 503 | 4.63 | 5.1 | 9.4 | 1.2 | 9 | 0.1 | 0.8 | <0.1 | 105 | 0.21 | 0.085 | 5 |
| 13LS222 | Soil | 0.4 | 35.6 | 5.4 | 86 | <0.1 | 30.4 | 14.4 | 690 | 3.72 | 10.8 | 4.5 | 1.2 | 10 | 0.9 | 1.9 | <0.1 | 100 | 0.36 | 0.091 | 16 |
| REP 13LS222 | QC | 0.4 | 36.0 | 5.6 | 88 | <0.1 | 32.8 | 14.4 | 719 | 3.84 | 11.3 | 2.2 | 1.2 | 9 | 0.9 | 2.0 | <0.1 | 98 | 0.35 | 0.093 | 16 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 12.4 | 106.9 | 122.1 | 296 | 1.7 | 38.8 | 7.5 | 541 | 2.22 | 23.4 | 117.6 | 5.8 | 64 | 2.2 | 5.4 | 6.4 | 41 | 0.67 | 0.078 | 13 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: Lacey
 Report Date: April 04, 2013

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Part: 2 of 1

QUALITY CONTROL REPORT

VAN13000972.1

| Method | 1DX15 | 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 | | | | | | | | | | | | | | | | | |
| 13LS007 | Soil | 47 | 0.77 | 48 | 0.142 | 3 | 2.70 | 0.010 | 0.02 | <0.1 | 0.07 | 8.4 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| REP 13LS007 | QC | 49 | 0.78 | 48 | 0.141 | 3 | 2.78 | 0.010 | 0.03 | <0.1 | 0.07 | 8.9 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 13LS009 | Soil | 29 | 0.50 | 57 | 0.125 | 2 | 1.98 | 0.009 | 0.02 | <0.1 | 0.06 | 4.7 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| REP 13LS009 | QC | 30 | 0.50 | 58 | 0.131 | 3 | 2.07 | 0.010 | 0.02 | <0.1 | 0.07 | 4.8 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 13LS043 | Soil | 47 | 0.64 | 75 | 0.187 | 3 | 2.92 | 0.008 | 0.03 | <0.1 | 0.18 | 7.9 | <0.1 | <0.05 | 9 | 0.7 | <0.2 |
| REP 13LS043 | QC | 48 | 0.64 | 76 | 0.188 | 3 | 2.99 | 0.008 | 0.03 | <0.1 | 0.17 | 7.8 | <0.1 | <0.05 | 9 | 0.6 | <0.2 |
| 13LS045 | Soil | 23 | 0.20 | 24 | 0.057 | 1 | 1.28 | 0.006 | 0.02 | <0.1 | 0.15 | 2.3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| REP 13LS045 | QC | 23 | 0.20 | 25 | 0.060 | 1 | 1.30 | 0.006 | 0.02 | <0.1 | 0.16 | 2.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS079 | Soil | 76 | 1.06 | 38 | 0.156 | 2 | 2.89 | 0.007 | 0.03 | 0.1 | 0.09 | 5.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| REP 13LS079 | QC | 77 | 1.06 | 39 | 0.148 | 2 | 2.86 | 0.007 | 0.03 | <0.1 | 0.07 | 5.2 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 13LS081 | Soil | 81 | 0.76 | 66 | 0.164 | <1 | 3.82 | 0.008 | 0.04 | 0.1 | 0.35 | 6.6 | <0.1 | <0.05 | 8 | 0.6 | <0.2 |
| REP 13LS081 | QC | 79 | 0.77 | 65 | 0.160 | 1 | 3.85 | 0.007 | 0.04 | 0.1 | 0.33 | 6.6 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS115 | Soil | 29 | 0.38 | 65 | 0.157 | 3 | 2.02 | 0.008 | 0.04 | <0.1 | 0.05 | 5.5 | <0.1 | <0.05 | 5 | 0.7 | <0.2 |
| REP 13LS115 | QC | 29 | 0.39 | 65 | 0.159 | 3 | 2.16 | 0.008 | 0.04 | <0.1 | 0.05 | 5.1 | <0.1 | <0.05 | 5 | 0.8 | <0.2 |
| 13LS117 | Soil | 95 | 1.69 | 91 | 0.174 | 4 | 3.16 | 0.010 | 0.06 | <0.1 | 0.22 | 9.8 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| REP 13LS117 | QC | 94 | 1.64 | 96 | 0.204 | 4 | 3.16 | 0.009 | 0.07 | <0.1 | 0.24 | 10.0 | <0.1 | <0.05 | 8 | 1.9 | <0.2 |
| 13LS151 | Rock Pulp | 34 | 1.00 | 57 | 0.109 | 4 | 1.48 | 0.093 | 0.21 | 28.4 | 1.66 | 4.3 | 1.7 | 2.93 | 9 | 4.0 | <0.2 |
| REP 13LS151 | QC | 35 | 1.01 | 57 | 0.111 | 4 | 1.40 | 0.083 | 0.21 | 28.2 | 1.68 | 4.3 | 1.7 | 2.93 | 9 | 3.8 | <0.2 |
| 13LS153 | Soil | 75 | 0.87 | 53 | 0.105 | 2 | 2.41 | 0.008 | 0.03 | 0.1 | 0.10 | 6.0 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| REP 13LS153 | QC | 78 | 0.88 | 53 | 0.105 | 2 | 2.35 | 0.008 | 0.02 | 0.1 | 0.08 | 6.0 | <0.1 | <0.05 | 6 | 0.5 | <0.2 |
| 13LS187 | Soil | 52 | 0.61 | 84 | 0.182 | 3 | 3.60 | 0.008 | 0.03 | <0.1 | 0.15 | 7.3 | <0.1 | <0.05 | 9 | 0.7 | <0.2 |
| REP 13LS187 | QC | 51 | 0.56 | 85 | 0.182 | 3 | 3.19 | 0.007 | 0.03 | <0.1 | 0.14 | 6.5 | <0.1 | <0.05 | 8 | 0.7 | <0.2 |
| 13LS189 | Soil | 42 | 0.48 | 93 | 0.112 | 2 | 3.72 | 0.006 | 0.04 | <0.1 | 0.09 | 4.7 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| REP 13LS189 | QC | 41 | 0.48 | 95 | 0.109 | 2 | 3.65 | 0.006 | 0.04 | <0.1 | 0.13 | 4.8 | <0.1 | <0.05 | 8 | <0.5 | <0.2 |
| 13LS222 | Soil | 40 | 0.52 | 62 | 0.120 | 2 | 2.37 | 0.007 | 0.02 | <0.1 | 0.08 | 10.3 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| REP 13LS222 | QC | 41 | 0.52 | 63 | 0.123 | 3 | 2.39 | 0.006 | 0.02 | 0.1 | 0.07 | 10.8 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 115 | 0.60 | 269 | 0.105 | 2 | 0.80 | 0.077 | 0.38 | 2.6 | 0.17 | 2.6 | 4.8 | 0.17 | 4 | 4.9 | 4.6 |



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Project: Lacey
Report Date: April 04, 2013

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QUALITY CONTROL REPORT

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| | | 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 |
|------------------|----------|---------------------------|---------------------------|---------------------------|-------------------------|---------------------------|---------------------------|---------------------------|-------------------------|--------------------------|---------------------------|---------------------------|---------------------------|-------------------------|---------------------------|---------------------------|---------------------------|------------------------|--------------------------|--------------------------|-------------------------|
| STD DS9 | Standard | 11.8 | 104.8 | 121.4 | 296 | 1.7 | 37.8 | 7.4 | 552 | 2.19 | 23.1 | 126.2 | 5.9 | 63 | 2.0 | 5.5 | 6.3 | 41 | 0.65 | 0.078 | 12 |
| STD DS9 | Standard | 12.6 | 104.7 | 126.3 | 297 | 1.7 | 38.2 | 7.3 | 558 | 2.18 | 23.8 | 119.1 | 6.6 | 61 | 2.3 | 5.2 | 6.2 | 40 | 0.65 | 0.082 | 12 |
| STD DS9 | Standard | 12.7 | 108.1 | 129.0 | 302 | 1.7 | 38.1 | 7.4 | 552 | 2.20 | 24.3 | 108.5 | 6.6 | 72 | 2.6 | 6.3 | 6.4 | 41 | 0.67 | 0.082 | 14 |
| STD DS9 | Standard | 12.6 | 104.1 | 119.2 | 291 | 1.7 | 37.5 | 7.5 | 539 | 2.19 | 22.6 | 118.7 | 6.3 | 67 | 2.2 | 5.6 | 6.3 | 42 | 0.67 | 0.073 | 14 |
| STD DS9 | Standard | 11.3 | 104.1 | 121.5 | 285 | 1.4 | 37.9 | 7.0 | 517 | 2.39 | 24.8 | 103.8 | 5.8 | 65 | 2.2 | 5.7 | 5.8 | 38 | 0.60 | 0.079 | 11 |
| STD DS9 | Standard | 11.8 | 112.2 | 131.5 | 317 | 1.8 | 40.3 | 7.7 | 579 | 2.31 | 26.4 | 145.7 | 6.4 | 71 | 2.5 | 6.1 | 7.0 | 42 | 0.68 | 0.084 | 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 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | 1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | 0.2 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | 0.02 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | 0.4 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | 0.04 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |



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 Report Date: April 04, 2013

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QUALITY CONTROL REPORT

VAN13000972.1

| | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | |
|------------------|----------|-------|--------|-------|--------|-------|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|------|
| | | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te |
| | | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm |
| | | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 0.2 |
| STD DS9 | Standard | 115 | 0.59 | 270 | 0.106 | 3 | 0.85 | 0.078 | 0.36 | 2.7 | 0.18 | 2.4 | 4.8 | 0.18 | 4 | 4.6 | 4.4 |
| STD DS9 | Standard | 118 | 0.53 | 278 | 0.108 | 2 | 0.92 | 0.061 | 0.37 | 2.8 | 0.20 | 2.5 | 5.0 | 0.16 | 4 | 4.8 | 4.6 |
| STD DS9 | Standard | 121 | 0.58 | 292 | 0.118 | 2 | 0.90 | 0.077 | 0.39 | 2.7 | 0.19 | 2.0 | 5.0 | 0.10 | 4 | 4.4 | 4.8 |
| STD DS9 | Standard | 117 | 0.58 | 274 | 0.113 | 3 | 0.87 | 0.080 | 0.36 | 2.8 | 0.20 | 2.3 | 4.8 | 0.18 | 4 | 4.7 | 4.7 |
| STD DS9 | Standard | 106 | 0.54 | 289 | 0.103 | 3 | 0.87 | 0.068 | 0.33 | 2.5 | 0.19 | 2.2 | 4.6 | 0.15 | 4 | 5.0 | 4.4 |
| STD DS9 | Standard | 120 | 0.61 | 289 | 0.113 | 3 | 0.90 | 0.074 | 0.39 | 3.0 | 0.21 | 2.1 | 5.3 | 0.14 | 4 | 4.8 | 5.2 |
| 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 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |