

**GEOLOGICAL & GEOCHEMICAL FINAL REPORT ON THE YMIP-FUNDED  
2010 EXPLORATION PROGRAM ON THE ROOP PROPERTY**

*ROOP 1 -28 (YC90551 – YC90570, YD34917-YD34924)*

**NTS: 105M/15  
Zone 8N**

**Latitude: 63° 50' 52"N Longitude: 134° 58'47"W**

**MINFILE # 105M 034**

**Mayo Mining District**

Work Performed on August 27<sup>th</sup> to September 1<sup>st</sup> 2010

**Prepared For:**

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**January 30<sup>th</sup>, 2011**

## SUMMARY

From August 27<sup>th</sup> to September 1<sup>st</sup> 2010, Keno Hill Exploration Corp. completed a grassroots YMIP-funded exploration program on the ROOP claims. The program included staking an additional 8 claims to the south, prospecting and soil sampling. A total of 21 rock samples and 340 soil samples were collected. The YMIP-funded program was completed to follow up the first reconnaissance program completed in 2009 and attempt to locate the original 1943 mineral showing.

In 1943, a GSC party briefly explored the contact areas around the granodiorite stock that lies between Edwards Creek and Keno-Ladue River. The field party found scheelite within the skarn as crystals as long as ½ " (Little, 1959). The scheelite occurs as coarse crystals in skarny pegmatites and quartz veins at the contact of the granitic intrusion and metasedimentary rocks of the Late Proterozoic-Early Cambrian Hyland Group (Deklerk and Traynor (compilers), 2008). The granodiorite stock is cut by numerous pegmatites of quartz and feldspar with abundant black tourmaline, commonly in long crystals as large as pencils (Little, 1959), these gemstone quality crystals were found on the central claims near the area of interest.

The deposit-type this program targeted is W-skarn associated with the Cretaceous Roop Lakes granitic stock in conjunction with rare earth element(s) in granitic pegmatite. The claims cover the eastern margin between the granodiorite stock and Hyland Group metasediments.

The ROOP 1-20 claims were staked by KHEC along an azimuth of due north over the area highlighted in 1943 by the GSC. In 2010, eight additional claims were staked to the south to cover anomalous geochemical results obtained during the 2009 exploration program. A total of 340 soil samples and 21 rock samples were collected and sent in for analysis with ACME Analytical Laboratories Ltd. Soil samples were dried and sieved to -80 mesh and analysed using Aqua-regia digestion with trace ICP-MS analysis for 37 elements. Tungsten was separately analyzed when it was reported >100 ppm. The most geochemically anomalous soil sample ran 98.5 ppm W, a considerably anomalous value considering the intense glacial history of the area. Rock samples were crushed, split and pulverized 250 g to 200 mesh and analyzed using aqua regia digestion with ultratrace ICP-MS analysis. Additionally these rock samples were analyzed for rare-earth elements (*herein* REE). Two rock samples reported >100 ppm W and were run for overlimits using 4-acid digestion with an ICP-MS and reported 0.12-0.33% W.

A total of 24-man days work was completed in 2010 (including staking). The crew operated from a fly camp next to a small lake at the edge of Roop Lakes <1 km southeast of Wilson's Cabin. Upon completion of the program the camp all garbage and equipment was demobilized back to Keno City via boat on Mayo Lake and then via 4WD truck down the Mayo Lake road.

Although KHEC has not found the appreciable mineralization reported by the GSC in 1943 some encouraging results suggest following up and additional staking (particularly to the south). The original reported showing is 1.5 miles (2.4 km) east of

Wilson's Cabin; the crew briefly prospected this area however (luckily), there is extensive outcrop in the area and although the skarn contact was located, coarse scheelite crystals were not found.

The author proposes further work to be completed on the property for the 2011 field season involving grid soil sampling to the south to cover the newly staked claims, at tight 50-m-sample spacing over north-south lines. The suggested sampling will cover all of the currently staked ROOP 21-28 claims. Continued detailed prospecting with an ultraviolet lamp over the central claims should be completed particularly over the area to the north where anomalous rock samples were obtained and to the south to follow up the anomalous soil sample results. It is anticipated that the crew will collect 300 soil samples and 35 rock samples. It is expected that the program will cost approximately \$21,995.00.

## TABLE OF CONTENTS

### 1. INTRODUCTION

#### 1.1 Underlying Agreements & Land Tenure

*Table 1. Roop Claim Status*

#### 1.2 Definitions & Units

#### 1.3 Sources of Information

### 2. PROPERTY LOCATION & DESCRIPTION

#### 2.1 Location & Access

*Figure 1. Roop Showing- Yukon Location Map*

*Figure 2. Roop Claim Map*

#### 2.2 Physiography & Climate

### 3. ROOP PROPERTY WORK HISTORY

### 4. REGIONAL GEOLOGY

*Table 2. Regional Geological Units*

*Figure 3. Regional Geology*

### 5. ROOP CLAIMS GEOLOGY

*Figure 4. Roop Claims Geology (from Green, 1957)*

### 6. 2010 EXPLORATION PROGRAM SUMMARY

#### 6.1 Claim Staking

#### 6.2 Reconnaissance Prospecting and Mapping

*Table 3. Rock Sample Descriptions*

*Figure 5. Rock Sample Location Map*

#### 6.3 Soil Sampling

*Figure 6. W-Soil Sample Bubble Plot*

### 7. TARGET RATIONALE

*Figure 7. W-Skarn Mineral Assessment Potential (Yukon-wide)*

*Figure 8. Heavy Metal Content of Stream and Spring Sediments  
(from GSC Map 19-1964)*

### 8. CONCLUSIONS

### 9. BUDGET SUMMARY

*Table 4. 2010 Exploration Program Budget Break Down*

### 10. RECOMMENDATIONS FOR FUTURE WORK

*Table 5. Proposed 2011 Work Schedule*

*Table 6. Proposed Exploration Program Budget*

### 11. STATEMENT OF QUALIFICATIONS

## **12. BIBLIOGRAPHY**

## **13. APPENDICES**

**Appendix I-** MINFILE Occurrence (Avenue- 105M 044)

**Appendix II-** 2010 Assay Certificates- Rock- WHI10000660

**Appendix III-** 2010 Soil Sample Data

**Appendix IV-** 2010 Assay Certificates- Soil- WHI10000504 & WHI10000565

## 1. INTRODUCTION

### 1.1 Underlying Agreements & Land Tenure

Keno Hill Exploration Corp. holds 100% interest in the ROOP claims. No agreement(s) have been made to date known currently known by the author (refer to *Table 1. Claim Status*, below). The ROOP 1-28 claims (YC90551 – YC90570, YD34917- YD34924) are within the Mayo Mining District and comprise the 580 hectare Roop Property.

**Table 1. Claim Status\***

Grant Number	Claim Name	Claim Owner	Recording Date	Expiry Date
YC90551	Roop 1	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90552	Roop 2	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90553	Roop 3	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90554	Roop 4	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90555	Roop 5	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90556	Roop 6	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90557	Roop 7	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90558	Roop 8	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90559	Roop 9	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90560	Roop 10	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90561	Roop 11	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90562	Roop 12	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90563	Roop 13	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90564	Roop 14	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90565	Roop 15	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90566	Roop 16	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90567	Roop 17	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90568	Roop 18	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90569	Roop 19	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YC90570	Roop 20	Keno Hill Exploration Corp. - 100%	07/07/09	07/07/13
YD34917	Roop 21	Keno Hill Exploration Corp. - 100%	09/10/10	09/10/11
YD34918	Roop 22	Keno Hill Exploration Corp. - 100%	09/10/10	09/10/11
YD34919	Roop 23	Keno Hill Exploration Corp. - 100%	09/10/10	09/10/11
YD34920	Roop 24	Keno Hill Exploration Corp. - 100%	09/10/10	09/10/11
YD34921	Roop 25	Keno Hill Exploration Corp. - 100%	09/10/10	09/10/11
YD34922	Roop 26	Keno Hill Exploration Corp. - 100%	09/10/10	09/10/11
YD34923	Roop 27	Keno Hill Exploration Corp. - 100%	09/10/10	09/10/11
YD34924	Roop 28	Keno Hill Exploration Corp. - 100%	09/10/10	09/10/11

\*A new expiry date is anticipated based upon acceptance of an in progress Assessment Report on the 2010 exploration season.

The prospect is found just east of Roop Lakes and currently comprises 28 quartz claims registered to KHEC of Keno City, Yukon. The claims are owned 50:50 by Matthias Bindig and Lauren Blackburn and were staked site un-seen based upon GSC reports from a 1943 exploration party (see Little, 1959). The claim package is centered around the area the GSC reported finding coarse scheelite crystals in skarnified and pegmatitic rocks (see MINFILE 105M 044). The Roop claims and are in good standing and following the filing of work in an in progress Assessment Report on the 2010 exploration program a new expiry date is anticipated (see *Table 1. Roop Claim Status* above).

The Roop prospect work history is summarized in MINFILE capsule 105M 044 as: “discovered in 1943 by the GSC and apparently never investigated”.

The occurrence of tin and tungsten minerals in gold placer deposits around granodiorite stocks north and northwest of Mayo in the unglaciated and lightly glaciated terrain suggests their presence around similar stocks to the east where glaciation was more intense and placer deposits have not been found (Little, 1959). In view of this, the GSC 1943 party briefly explored the contact area around the Cretaceous granodiorite Roop Lakes Stock (KT, Tombstone Intrusions) and Upper Proterozoic to Lower Cambrian Hyland Group (PYqp) metasediments in the area between Edwards Creek and Keno-Ladue River.

## 1.2 Definitions & Units

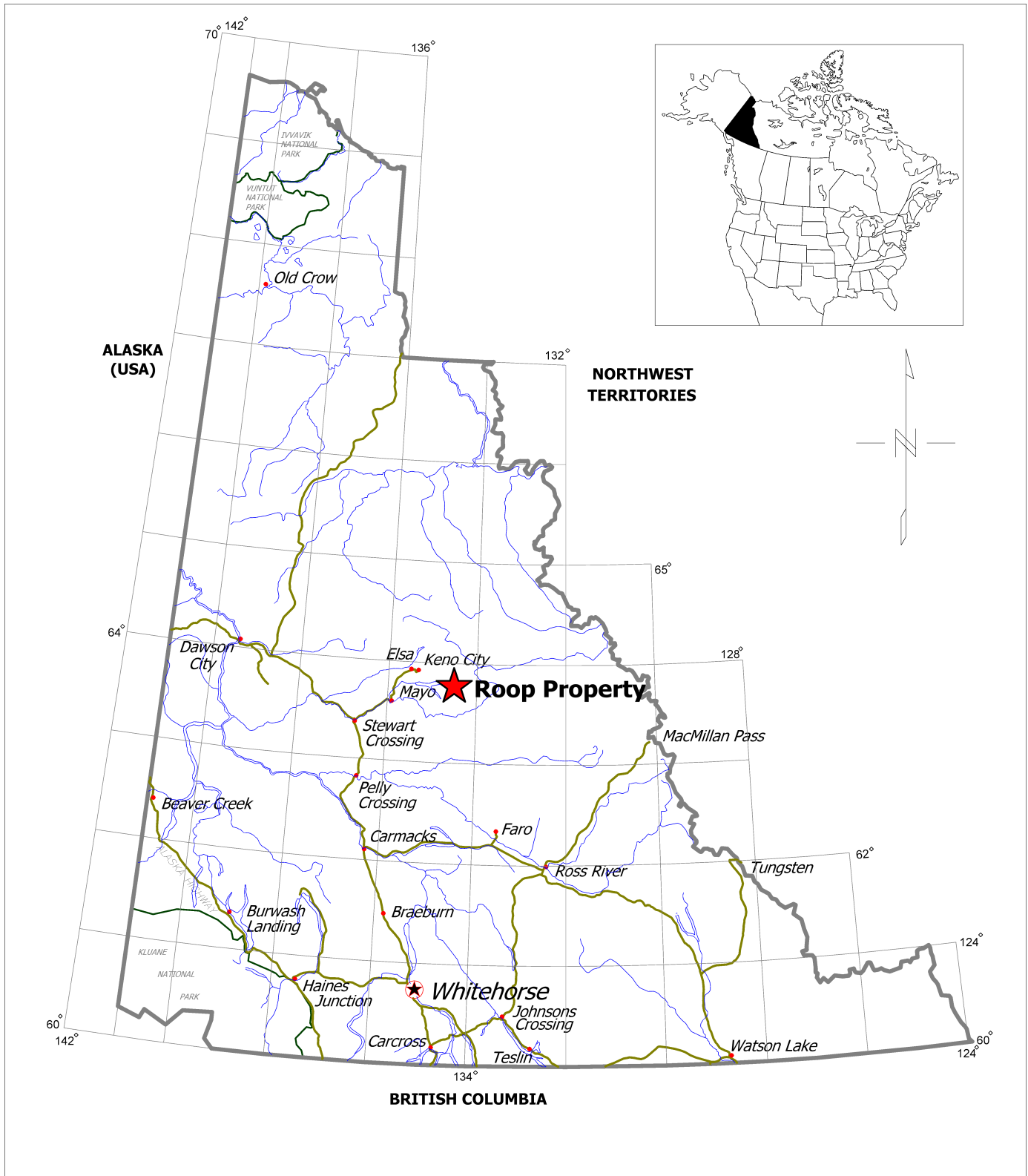
The following are abbreviations used within this report:

- Distances are reported in meters (m), kilometres (km) and feet (ft).
- Geochemical data is reported in parts per million (ppm) the equivalent to grams per tonne (g/t) and ounces per tonne (oz/t).
- Elemental abbreviations include: tin (Sn), tungsten (W), gold (Au), Y (yttrium) and Rare Earth Elements (REE).
- Directional units include: north (N), east (E), south (S), west (W) and may be used in combination (*i.e.*, NNE for north-northeast).

## 1.3 Sources of Information

Sources of information include but are not limited to:

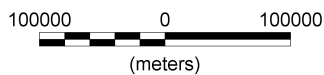
- Assessment Reports;
- Internal data (geological, structural, geochemical and geophysical);
- Yukon MINFILE; and
- Geological reports and maps from the Geological Survey of Canada (GSC) and Yukon Geological Survey (YGS).



**ROOP- 2010 YMIP-funded Exploration Program  
Figure 1. Location Map**

NTS Map-sheet- 105M/15  
Datum- NAD83  
Drafted by- L.R. Blackburn

Mining District- Mayo  
UTM- Zone 8N  
Date- Dec-30-2011



***Keno Hill Exploration Corp.***



## **2. PROPERTY LOCATION & DESCRIPTION**

### **2.1 Location & Access**

The ROOP 1-28 claims are located east of Mayo Lake and Roop Lakes approximately 1 km east of Wilson's Cabin. The claims are 33 km east-southeast of Keno City which is 465 km by road northeast of Whitehorse and 56 km east of Mayo, Yukon. The Roop claims are centered at a latitude of 63°50' 52" N and a longitude of 134°38'47"W (UTM Zone 8N, NAD83 Easting 0517390, Northing 7080100). Please refer to *Figure 1- Roop Claims Location Map* on previous page.

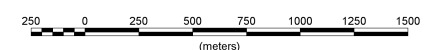
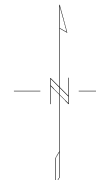
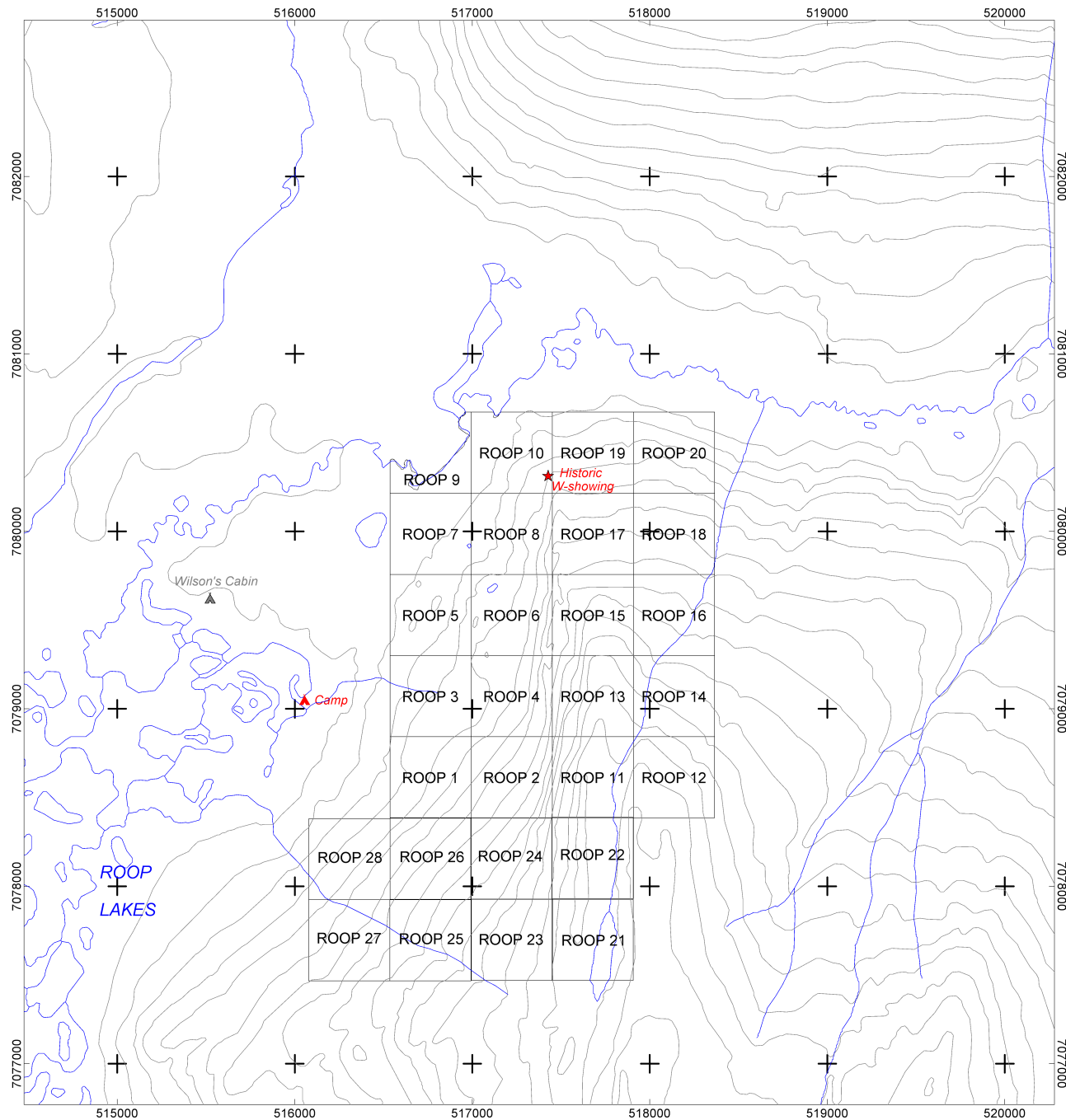
The prospect is currently accessible by all weather highway from Whitehorse to Mayo, by all weather gravel road to Keno City, by four wheel drive from Keno to Mayo Lake via the Mayo Lake road and then by boat across Mayo Lake through the tributaries of Roop Lakes (see *Figure 2-Roop Claims Map* on following page).

### **2.2 Physiography & Climate**

The ROOP 1-28 claims are located on the east end of Mayo Lake, east of Roop Lakes. At the center of the claim block is a north-south trending steep cliff that represents the contact between the two primary geologic units. The western claims flank the talus slides off of this cliff and the east end of the claims cover the upper bench of the cliff. Downslope from the cliff is sparsely to densely covered in foliage (primarily dwarf birch, willow, small coniferous trees and a diverse range of mosses and lichens). The climate in this area range from -40 to +30°C with relatively minimal precipitation.

## **3. ROOP WORK HISTORY**

The Roop prospect work history is summarized in MINFILE capsule 105M 044 as: "discovered in 1943 by the GSC and apparently never investigated". In 2009, KHEC staked the ROOP 1-20 quartz claims and completed soil sampling and reconnaissance prospecting and mapping in an attempt to locate the original showing. A total of 6-man days work was completed in 2009. Two rock samples reported >100 ppm W and were run for overlimits reporting 0.013-0.015% W. Three rock samples reported anomalous tin up to 41 ppm. The most geochemically anomalous soil sample ran 8.6 ppm W.



<b>Keno Hill Exploration Corp.</b>	
<b>Roop - 2010 YMIP-funded Exploration Program</b>	
<b>Figure 2. Roop Property Map</b>	
NTS Map Sheet- 105M/15	Mining District- Mayo
Datum- NAD83	UTM- Zone 8N
Drafted by: L.R. Blackburn	Date- Dec-30-2011

#### 4. REGIONAL GEOLOGY

The prospect is located on the 1:250 000-scale Mayo (105M) map-sheet and 1:50 000-scale map sheet 105M/15. The most recent mapping of the area was 1:250 000-scale and was completed in 1992 by C.F. Roots and D.C. Murphy (Geology of the Mayo Map Area, Bulletin 7).

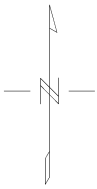
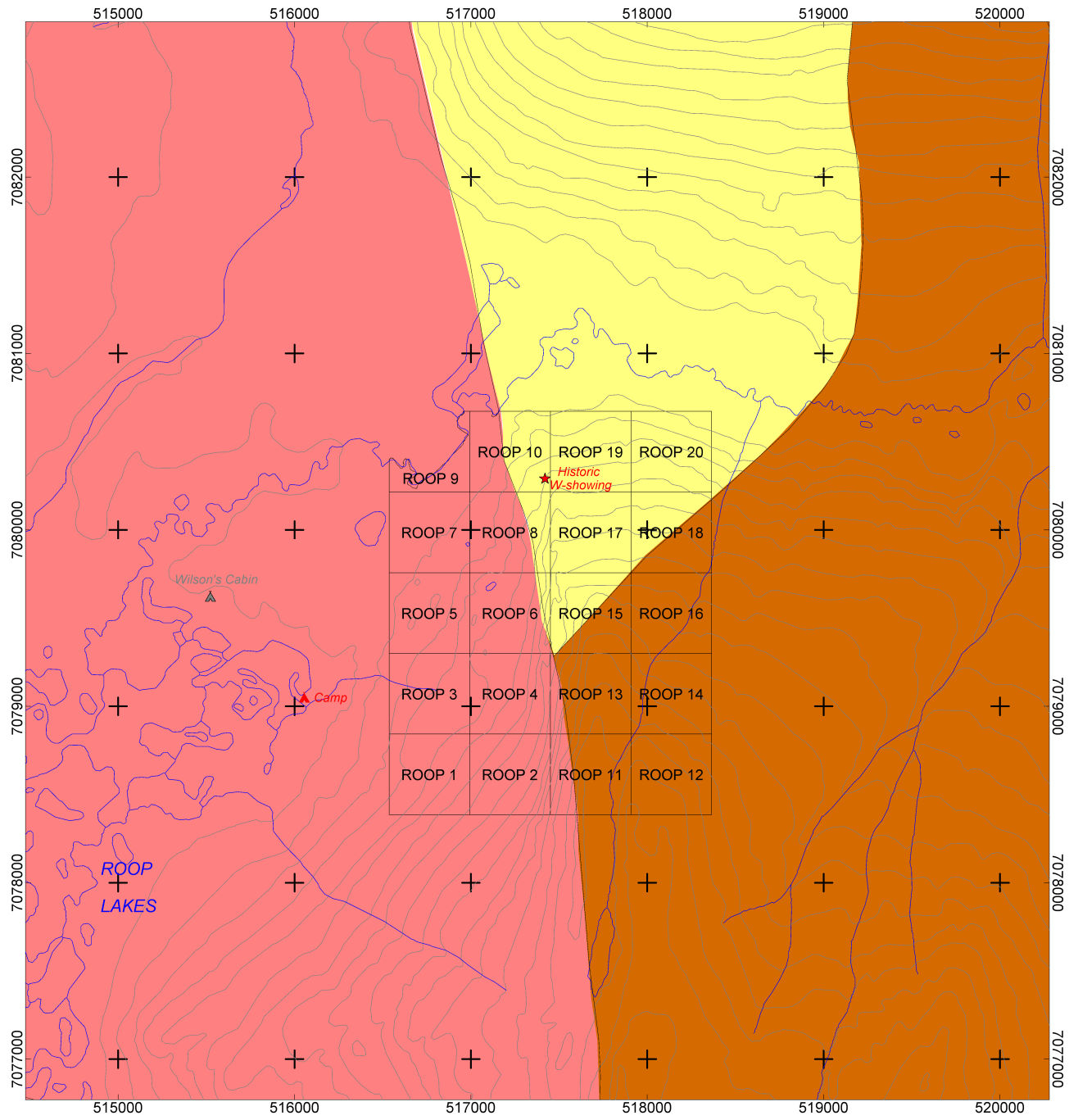
The claims are situated on the northeastern side of the Tintina Trench within the northwestern Omineca Belt in a band of regional-scale thrust faults—the Robert Service, Dawson and Tombstone Thrusts imbricate rocks of the Selwyn Basin and MacKenzie Platform (Blackburn, 2010). The Roop prospect is situated within the pericratonic Selwyn Basin on the cratonic margin with Ancestral North America (see following page for *Figure 3. Regional Geology*). Selwyn Basin comprises an offshore continental margin, deep-water shales and clastic wedges forming a basin bounded by platform carbonates to the northeast, the Tintina fault truncates the basin to the southwest (Pigage, 2006). The Roop claims are within the Robert Service Thrust sheet which occurs between grey quartzite and carbonaceous phyllite of the Keno Hill Quartzite and the muscovite-chlorite phyllite and gritty psammite of the Hyland Group (Roots, 1997).

The Cretaceous granodiorite Roop Lakes Stock (KT, Tombstone Intrusions) intrudes the Upper Proterozoic to Lower Cambrian Hyland Group (PYqp) metasediments in the area proximal to the claims (see on Page 13 for *Table 2. Regional Geological Units*).

The following is taken from Roots (1997b):

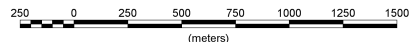
*The 100 -sq.-km elliptical stock centered on Roop Lakes clearly crosses the Robert Service Thrust, intruding both the Keno Hill Quartzite and the Hyland Group. Two plugs of biotite quartz monzonite eight km to the southeast, together with the four-km-wide aureole and elongated aeromagnetic low, suggest that the intrusion extends southeasterly at relatively shallow depth. The long axis of the pluton aligns with the hinge of the southeast-plunging Mayo Lake Antiform, although their genetic relationship is speculative.*

*The contact locally is a 100-m-wide zone of aplite and pegmatitic dykes in quartz phyllite. Silliminite schist at the contact grades outward to staurolite-feldspar schist, and more distally to biotite-muscovite-feldspar schist at low elevations and garnet-andalusite schist at high elevations.*



**LEGEND**

- mKqs- Tombstone Intrusions (Roop Lakes Intrusion)
- MK- Keno Hill Quartzite
- PCH1- Hyland Group



<b>Keno Hill Exploration Corp.</b>	
<b>Roop - 2010 YMIP-funded Exploration Program</b>	
<b>Figure 3. Regional Geology</b>	
NTS Map Sheet- 105M/15	Mining District- Mayo
Datum- NAD83	UTM- Zone 8N
Drafted by: L.R. Blackburn	Date- Dec-30-2011

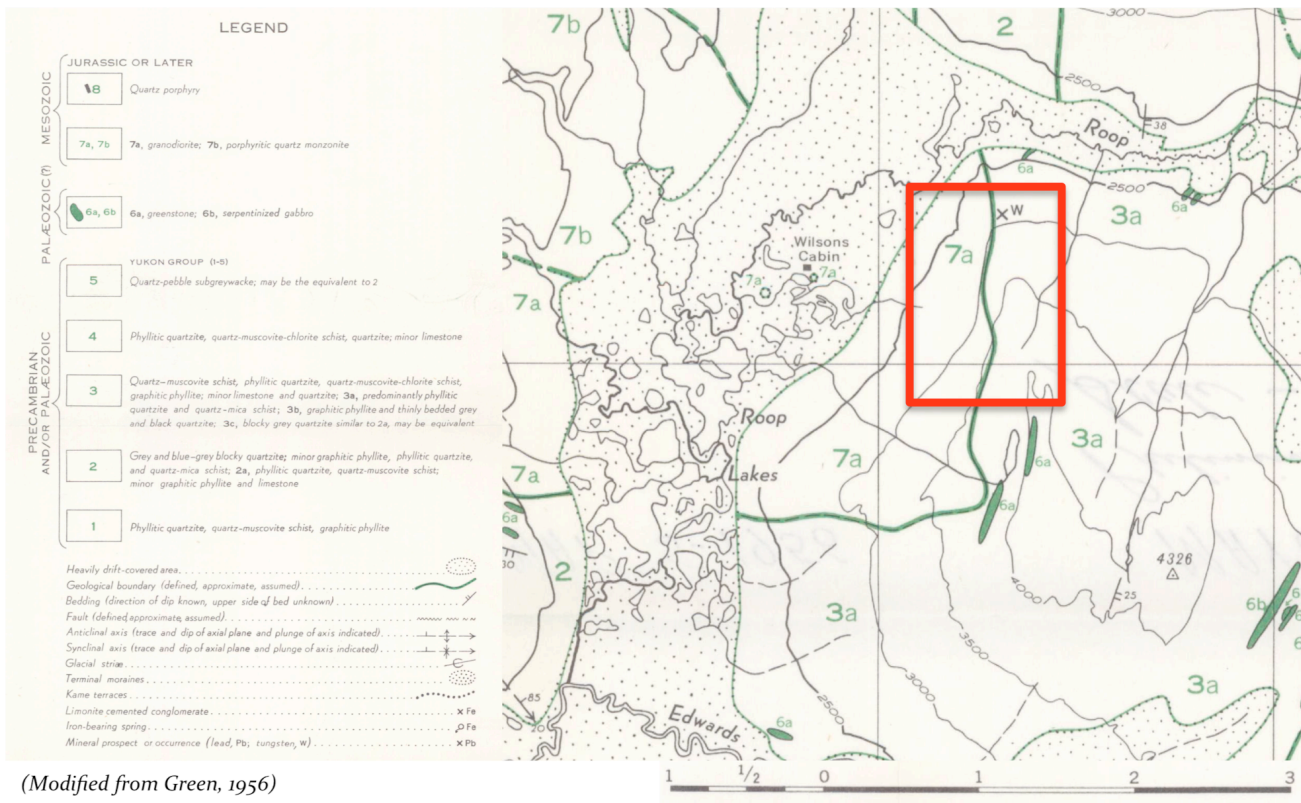
**Table 2. Regional Geological Units** (Gordey, S.P. and Makepeace, A.J. (compilers), 2003)

Unit	Age	Rock Type
Hyland Group (PYqp)	Upper Proterozoic to Lower Cambrian	Compositionally layered medium- to coarse- grained, micaceous, quartzose rock; muscovite-chlorite, gritty phyllite; green and grey impure quartzite and metaconglomerate; rare calc-silicate.
Roop Lakes Intrusion (KT)- Tombstone Intrusions	Cretaceous	Hornblende ± biotite-granite, quartz monzonite + granodiorite.

### 5. ROOP CLAIMS GEOLOGY

The Cretaceous granodiorite Roop Lakes Stock (KT, Tombstone Intrusions) intrudes the Upper Proterozoic to Lower Cambrian Hyland Group (PYqp) metasediments in the area between Edwards Creek and Keno-Ladue River. In 1956, the GSC mapped the area surrounding Mayo Lake. Green (1957) drafted a preliminary map (1:63 360-scale). The property geology map is taken from this mapping, see below for Figure 4. *Property Geology*, the claim area is represented by the red block.

**Figure 4. Property Geology**



(Modified from Green, 1956)

The granodiorite stock is cut by numerous pegmatites of quartz and feldspar with abundant black tourmaline, commonly in long crystals as large as pencils (Little, 1959), these gemstone quality crystals were found on the central claims near the area of interest (see picture below).



## 6. 2010 EXPLORATION PROGRAM SUMMARY

KHEC's 2010 exploration program consisted of three components:

- 1) Claim staking the ROOP 21-28 claims;
- 2) Reconnaissance prospecting (collection of 21 rock samples); and
- 3) Soil Sampling (a total of 340 soil samples).

### 6.1 Claim Staking

Upon arriving at the area of interest Matthias Bindig staked the ROOP 21-28 claims on an azimuth of due north to cover the area to the south of the claim block where anomalous results were obtained in the 2009 exploration program.

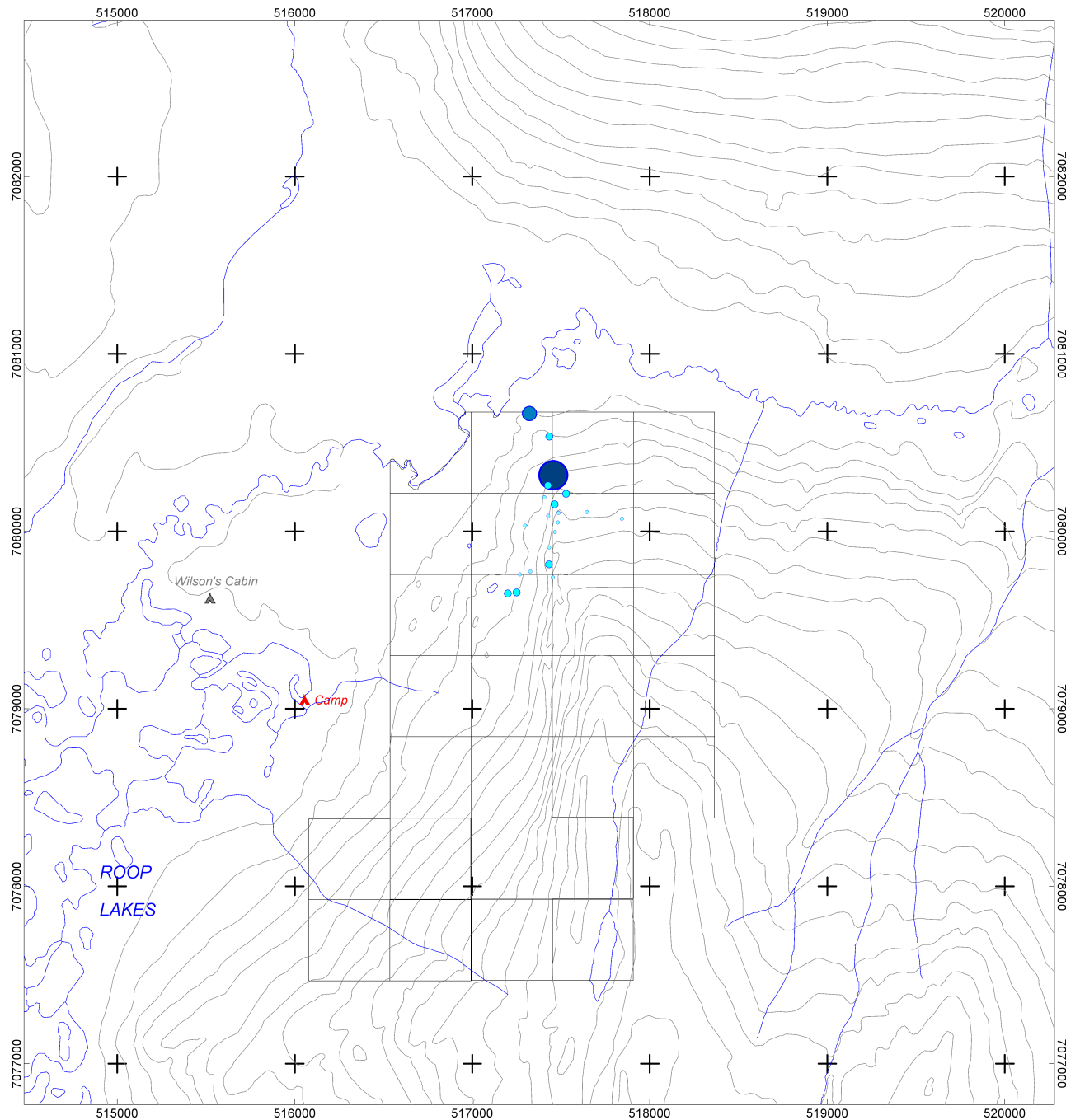
### 6.2 Reconnaissance Prospecting

During the program reconnaissance prospecting was completed focusing on the area of the reported 1943 GSC showing. Twenty-one rock samples of primarily granodiorite and pegmatitic dyke were collected and sent in for assay (see *Table 3. Rock Sample Descriptions* below).

**Table 3. Rock Sample Descriptions**

Waypoint	Easting_ NAD83	Northing_ NAD83	Elevation (m)	Description
RR-07	517298	7080032	794.6	Outcrop sample of felsic granite (granodiorite) with coarse biotite booklets. Late megacrystic dyke material intruding granite. Odd minerals surrounded by FeO (sphalerite?). Minor, bladed tourmaline. Odd fracture-fill black mineral with local silver hues.
RR-08	517406	7080192	805	Large outcrop of granitic-skarn with garnet cut by skarnified 6" late, pegmatitic dyke. MnO fracture fill.
RR-09	517464	7080153	847	Outcrop of contact zone between meta-sediments and white, leucocratic skarn with garnet. Fracture face is covered in radiating tourmaline.
RR-10	517486	7080104	867.2	Outcrop of leucocratic megacrystic dyke material with yellow-hued plagioclase. Interstitial green mica (fuchsite?).
RR-11	517482	7080050	873.2	Outcrop of skarn with small preserved xenolith/fragments of chlorite-biotite rich schistose meta-sediment intruded by megacrystic felsic dyke material. Locally more pervasively FeO altered. Cubic vugs of former pyrite.
RR-12	517466	7079996	873.5	Outcrop of megacrystic dyke cutting granitic skarn with tiny garnets. Local red staining that is crystalline (?)-- sphalerite?
RR-13	517433	7079909	862.2	Outcrop of dyke material-- leucocratic, very fine grained (almost looks like aplite) with <3% tiny garnets and local sheets of fine-grained biotite.
RR-14	517428	7080087	819.4	Outcrop of white, 'grotty' granite with minor coarser-grained megacrystic dyke material. FeO altered fractures and tiny garnets
RR-15	517322	7080664	715.6	Contact rock that is rusty, gausseous, evidence of fluid flow (porous), heavy. FeO altered with local MnO. Appears to be hornfelsed meta-sediment with some veins (+ tourmaline). Evidence of earlier prospecting.
RR-16	517434	7080534	758.8	Megacrystic granite vein material with visible old flagging and broken rocks in area. Coarse, milky quartz and grey plagioclase.
RR-17	517456	7080317	805.7	Rusty, gausseous vein (sill?), similar to station 15. FeO-rich with MnO within fractures. Earthy sample, heavy, with evidence of fluid flow (porous, grotty). Locally looks brecciated.
RR-18	517528	7080212	836	Outcrop of hornfelsed meta-sediment that is biotite-rich, foliated with thick (0.5-2cm) quartz veins. Veins show weak deformation and have rusty (FeO-altered) biotite blebs within.
RR-19	517843	7080071	879.7	Outcrop of metasediments cut by quartz veins (as last).
RR-20	517646	7080109	865.1	Outcrop of cooked up metasediments cut by quartz veins that are foliation parallel, creamy white and FeO rich. Relatively heavy. Foliation parallel qtz veins have pyr +/- pyrr.
RR-21	517426	7080259	810.8	Megacrystic dyke material with coarse quartz + plag + tourmaline. Some tourmaline is destroyed (? Earthy black crystals). Locally vein material appears brecciated.
RR-22	517200	7079650	787.4	Large outcrop (cliff) of granite cut megacrystic dyke material with local rusty FeO blebs, vuggy with very fine grained metallic black-bronze mineral (? Pentlandite).
RR-23	517250	7079656	791.5	Metasediment - granite (aplite?) contact subcrop. Grotty, fine-grained, leucocratic rock with rusty FeO blebs submetallic, black mineral with FeO coatings and trace near cubic pyrite. Hornfelsed metasediment rock has pyritic seams parallel to foliation.
RR-24	517268	7079757	815.1	Outcrop of more typical granite (granodiorite) with visible biotite and abundant garnet. Some sub-metallic very fine grained mineral infilling fractures.
RR-25	517327	7079774	830	Granite outcrop with late megacrystic dyke material. Same rocks as last station but less garnets and no visible sub-metallic minerals.
RR-26	517432	7079814	876.6	Rusty contact rock with quartz veins and dyke material. Rusty granitic rock and hornfelsed metasediment is cut by quartz veins creating 'red skarnified rock'. Waxy, fracture-filling mineral (h= <5) with pervasive alteration looks similar to sphalerite?
RR-27	517454	7079741	890.3	More typical granite with aplite (?) and local bright red alteration.

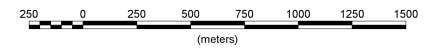
Sample locations plotted with a proportional symbols for tungsten (see following page for *Figure 5. Rock Sample Location Map*), two rock samples contained anomalous tungsten. Sample RR-015 reported 0.12% tungsten and sample RR-017 reported 0.33% tungsten.



**LEGEND**

W (ppm)

- > 300
- 100 - 300
- 1 - 100
- < 1



**Keno Hill Exploration Corp.**

**Roop - 2010 YMIP-funded Exploration Program**  
**Figure 5. Rock Sample Location Map**

NTS Map Sheet- 105M/15  
 Datum- NAD83  
 Drafted by: L.R. Blackburn

Mining District- Mayo  
 UTM- Zone 8N  
 Date- Dec-30-2011



### 6.3 Soil Sampling

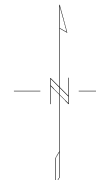
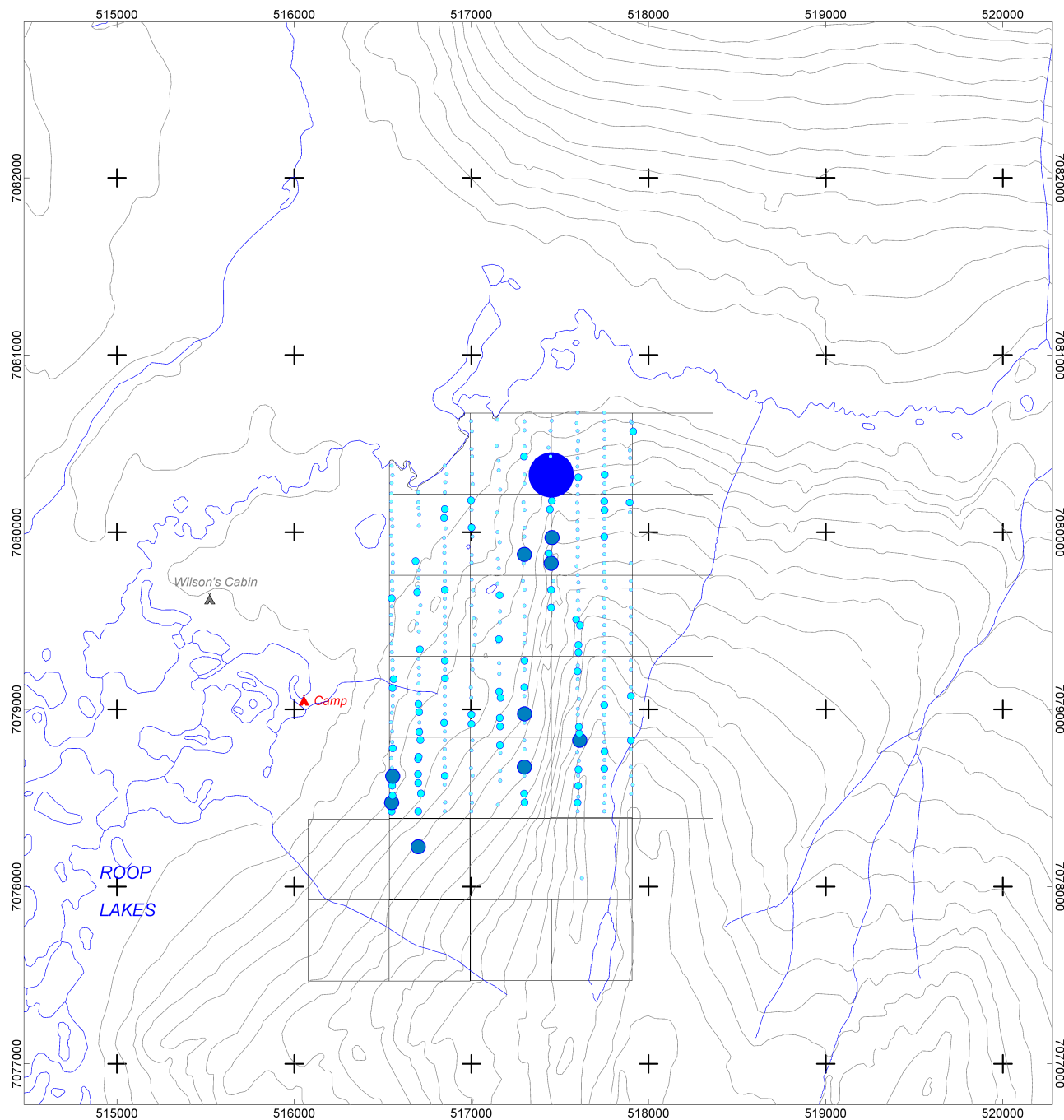
During the 2010 YMIP-funded Exploration Program a total of 340 soil samples were collected (refer to Appendix III and IV for soil sample descriptions and assays respectively and following page for *Figure 6. W-Soil Sample Bubble Plot*). These samples were dug as deep as possible in order to sample as close as possible to underlying bedrock. In some sample locations, permafrost limited the depth of the sample; therefore these results are likely not representative of the true bedrock geochemistry. Furthermore, the area of interest is at lower elevations within the granitic unit and therefore was affected by intense glacial activity. However, the majority of the soil samples were obtained from soils immediately covering bedrock.

The tungsten content of residual soils, tills, and organic muck and peat on Galena and Keno Hills is generally less than 4 ppm (Boyle, 1965). However, in more the more intensely glaciated regions surrounding east Mayo Lake and Roop Lakes, tungsten is considered anomalous in soils (D-horizon, glacial materials) at much lower concentrations (see GSC Map 18-1964). Therefore, soil samples reporting >4ppm tungsten is considered highly anomalous (when considering the intense glacial history). Samples collected during the 2010 exploration program reported tungsten <98.5 ppm.

## 7. TARGET RATIONALE

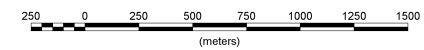
In 2009, Keno Hill Exploration Corp. staked the ROOP 1-20 (YC90551—YC90570) claims after researching the Yukon Geological Survey's (*herein* YGS) MINFILE database, Geological Survey of Canada's (*herein* GSC) Paper Tungsten Deposits of Canada (Little, 1959) and GCS Bulletin 111 (Boyle, 1965). The W-showing was discovered in 1943 by the GSC but was apparently never investigated (Deklerk and Traynor (compilers), 2008). In 1943, a GSC party briefly explored the contact areas around the granodiorite stock that lies between Edwards Creek and Keno-Ladue River. The field party found scheelite within the skarn as crystals as long as ½ " (Little, 1959). Scheelite occurs as coarse crystals in skarny pegmatites and quartz veins at the contact of the granitic intrusion and metasedimentary rocks of the Late Proterozoic-Early Cambrian Hyland Group (Deklerk and Traynor (compilers), 2008).

The deposit-type this program targeted is W-skarn associated with the Cretaceous Roop Lakes granitic stock. The claims cover the eastern margin between the granodiorite stock and Hyland Group metasediments. In 2004, Bradshaw and vanRanden completed a Yukon-wide mineral assessment potential study, their findings suggest that the Selwyn Basin rocks just opposite the Tintina Trench have a high mineral assessment potential for W-skarns. It is important to note that the areas highlighted for high mineral potential are all surrounding mid-Cretaceous plutons. The area surrounding the Roop Lakes pluton was deemed to have high mineral assessment potential for W-skarns (see *Figure 7. W-Skarn Potential* on page 19).



**LEGEND**

- W (ppm)
- > 90
  - 10 - 90
  - 1 - 10
  - 0.2 - 1
  - < 0.2

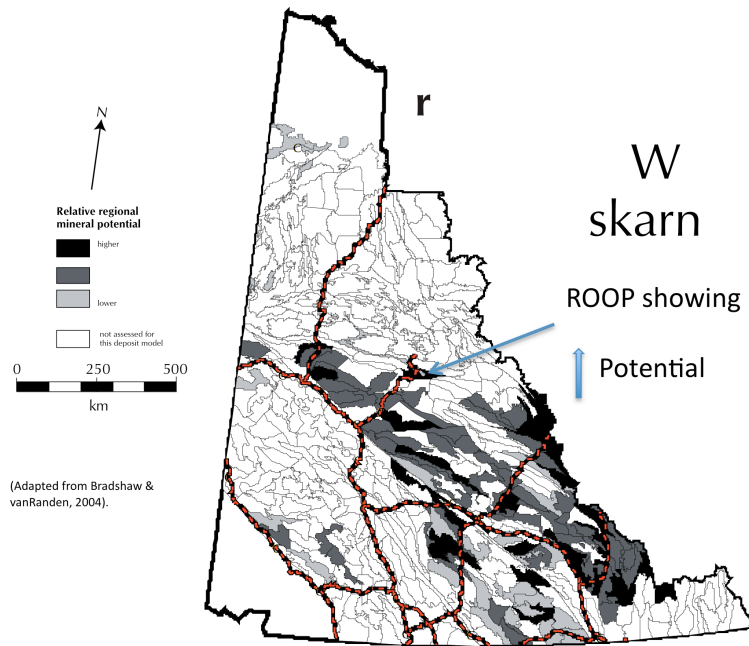


**Keno Hill Exploration Corp.**

**Roop - 2010 YMIP-funded Exploration Program**  
**Figure 6. W-Soil Sample Bubble Plot**

NTS Map Sheet- 105M/15  
 Datum- NAD83  
 Drafted by: L.R. Blackburn

Mining District- Mayo  
 UTM- Zone 8N  
 Date- Dec-30-2011

**Figure 7. W-Skarn Mineral Assessment Potential (Yukon-wide)**

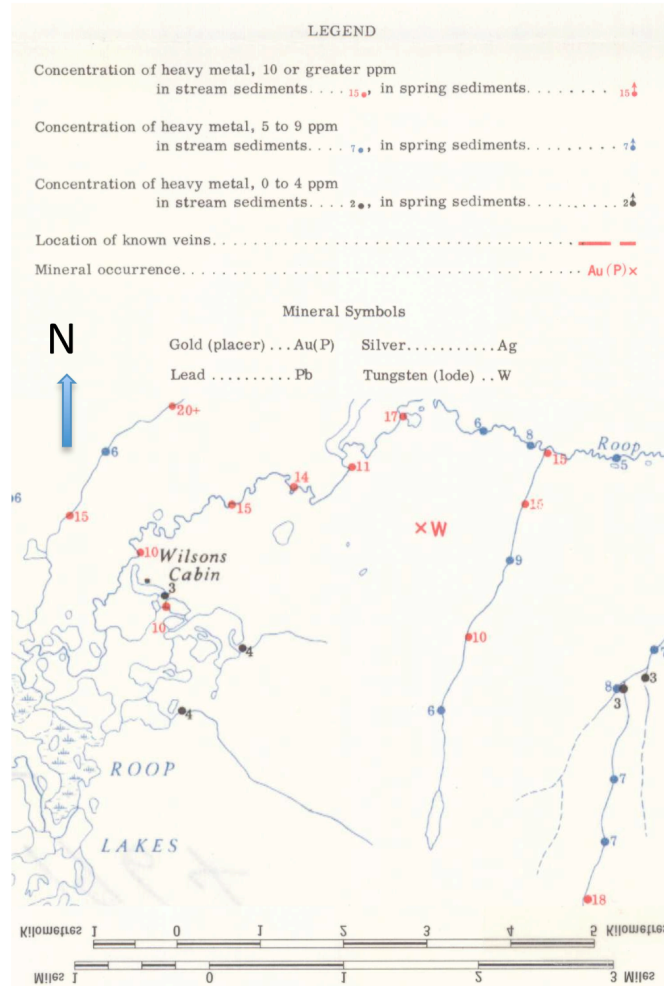
The occurrence of tin and tungsten minerals in gold placer deposits around granodiorite stocks north and northwest of Mayo in the unglaciated and lightly glaciated terrain suggests their presence around similar stocks to the east where glaciation was more intense and placer deposits have not been found (Little, 1959). Tungsten geochemistry in the district is highly influenced by glacial events. In the lightly glaciated regions north of Mayo and Roop Lakes highly anomalous tungsten is common in soils and is associated with heavy mineral concentrates in placers. For instance, zinc and especially arsenic, antimony and tungsten are enriched in the highly aluminous (B and C-horizons) soils and weathered debris overlying parts of the Dublin Gulch granodiorite (Boyle, 1965). The tungsten content of residual soils, tills, and organic muck and peat on Galena and Keno Hills is generally less than 4 ppm (Boyle, 1965). However, in more the more intensely glaciated regions surrounding east Mayo Lake and Roop Lakes, tungsten is anomalous in soils (D-horizon, glacial materials) at much lower concentrations (see *Figure 8. Heavy Metal Content of Stream and Spring Sediments* on following page).

Furthermore, the area was examined for REE-potential within megacrystic dykes that intrude the Roop Lakes granodiorite stock and bordering metasediments. Hugh Bostock (1979) went to the Roop Lakes area in search for coarse cassiterite in quartz veins that a local Keno prospector had reportedly brought back. Although Bostock's crew was unable to find the cassiterite occurrence they did locate an outcrop that had been blasted and matched what the prospector described (in later years, stream and spring sediments sampling supports the prospectors claim as highly anomalous tin was reported in the samples in the area). However, Bostock's crew found a conspicuous mineral, which would later be identified as allanite  $[(Ce, Ca, Y, La)_2(Al, Fe^{3+})_3(SiO_4)_3(OH)]$ , a mineral composed of significant amounts of REE. Allanite is found in metamorphic clay-rich sediments and felsic igneous rocks; these

two geologic units are the primary rock types present on the property. The allanite Bostocks’s crew collected was from within siliceous vein material in granitic rock (Roop Lakes intrusion). Of the 21 rock samples collected the most anomalous results with respect to REE are as follows: Ce= 28.9 ppm (RR-011), Y=39.01 ppm (RR-023), La= 14.1 ppm (RR-011). The most anomalous sample was RR-011 with a total of 49.84 ppm concentration of the aforementioned REE. No allanite was discovered.

In the past, the area surrounding Mayo Lake has been examined for Au-potential (refer to Lynch, 2006). The abundance of placer gold operations off of Mayo lake in conjunction with heavy mineral content of stream and spring sediments (see *Figure 8. Heavy Metal Content of Stream and Spring Sediments*, below) suggest that this area may have potential for W-Au. However, despite all of the suggestive mineral potential, KHEC’s ROOP claims are targeting W±Sn-skarn and REE potential in granitic pegmatite, due to the proximity of the granitic stock and past reported tin and tungsten showings.

**Figure 8. Heavy Metal Content of Stream and Spring Sediments**



(Modified from Boyle, 1964, GSC Map 19-1964).

## 8. CONCLUSIONS

The ROOP 21-28 claims were staked by KHEC to cover the southern region of the claims where geochemically anomalous soil samples were collected during the previous season. The crew completed six soil sampling lines with sample collection every 50 m along the same azimuth as the staking lines. Three of these soil sample lines were from the previous season and sample infill was completed. In the region of the original reported showing, prospecting was completed with a UV lamp and a total of 21 rock samples were collected and assayed for W, Sn and REE. During the program a total of 340 soil samples and 12 rock samples were collected. Two rock samples reported >100 ppm W and were run for overlimits reporting 0.12-0.33% W. The most geochemically anomalous soil sample ran 95.8 ppm W, a highly anomalous soil sample considering the intense glacial activity.

Upon returning from the field KHEC used an ultraviolet lamp and examined the rock samples. However, none of the samples fluoresced. The scheelite crystals the GSC found are coarser than in other localities (Little, 1959) and were up to ½” in size.

Considering the soil sample anomalies and the fact that the original scheelite, allanite and cassiterite showings have not been located to date, the author encourages additional investigation of the claim area. Furthermore, it is recommended that KHEC continues to examine and samples the biotite-muscovite pegmatite for REE-potential.

## 9. BUDGET SUMMARY

A total of \$14,705.00 was spent during the staking and grassroots exploration program on the ROOP claims by KHEC, see following page for *Table 4. 2010 Exploration Program Budget Break Down* (this does not include the cost of writing this report).

**Table 4. 2010 Exploration Program Budget Break Down**

item		unit/days	rate	total
daily field expenses	Crew of 4 @ 6 days	24	\$100/day	\$2,400
Personnel	<i>Name (supply statement of qualifications)</i>			
	Matthias Bindig (Claim owner, prospector)	7	N.A. (applicant)	N.A.
	Greg Keitel (Soil sampler)	6	\$275/day	\$1,650
	Dick Brost (Soil sampler)	6	\$275/day	\$1,650
	Jordan Theriout (Soil sampler)	6	\$275/day	\$1,650
equipment (rental)	private or commercial	unit/days	rate	total
Staking	Commercial	1 day	\$350	\$350
Truck rental	Private	6 days	\$50	\$300
18' boat w/ 40hp outboard motor with trailer*	Private	6 days	\$75	\$450
Generator (2000W)	Private	6 days	\$10.00	\$60
other	<i>please provide details</i>			
WCB				\$298.00
Soil sample Assays	(Acme Labs)	314 samples	\$14.96/sample	\$5,023.20
Mining recorder fees (recording of 8 new claims)	(Mining Recorder)	8 claims	\$10/claim	\$80.00
Rock assays	(Acme Labs)	24 samples		\$480.00
Soil sample Assays - 2nd batch	(Acme Labs)	20 samples	\$14.96/sample	\$313.95
<b>Grand total this claim:</b>				<b>\$14,705</b>

\* As per YTG 2009 cost guidelines.

## 10. RECOMMENDATIONS FOR FUTURE WORK

The author recommends additional grid soil sampling on the newly staked southern claims which reported anomalous geochemistry at tight 50-m.

Detailed prospecting following up the soil sample anomalies and continued prospecting to attempt to locate the original scheelite, cassiterite and allanite showings should be completed. Further prospecting should also focus on the megacrystic dyke material and be analyzed for the presence of rare earth elements (*i.e.*, allanite).

A tentative schedule has been proposed for the 2011 exploration program on the ROOP Claims (see *Table 5. Proposed 2011 Work Schedule* and *Table 6. Proposed Exploration Program Budget* on following page).

**Table 5. Proposed 2010 Work Schedule\***

Task	L. Blackburn	M. Bindig	Exploration Personnel 1	Exploration Personnel 2	Total man-days
Mobe gear out to Mayo lake*	X	X			2
Mobe-In	X	X	X	X	4
Soil sampling		XX	XXXXX	XXXXX	16
Prospecting	XXXXX	XXX			4
Mobe-out	X	X	X	X	4
Mobe-out gear to Keno from Mayo Lake*	X	X			2
					32 man-days

\*Mobing in and out to camp takes one full day not including mobing gear out to Mayo Lake.

**Table 6. Proposed Exploration Program Budget**

<b>Staff</b>	<b>Man days @ rate</b>	<b>Cost</b>
4-person exploration personnel, soil sampling	12 man days @ \$350/day	4200
2-person exploration personnel, prospecting	8 man days @ \$400/day	3200
4-person exploration personnel, mobe-in/out	8 man days @ \$300/day (Based on a 7-day program)*	2800
<b>Geochem</b>	<b>Sample cost</b>	<b>Samples per man day</b>
Assays (Soil)- 300	\$15/sample	~30 samples/person/day
Assays (Rock)- 35	\$25/sample	~6 samples/person/day
<b>Equipment Rental</b>	<b>YTG Guideline Rate</b>	<b>Cost</b>
Generator (2500 watt)	@ \$160/week (Based on a 7-day program)*	160
<b>Transportation</b>	<b>Rate/hr (incl. fuel)</b>	<b>Cost</b>
16' boat (30 HP)	7 days @ \$895/week	YTG Guideline Rate
Truck	7 days @ \$565/week	YTG Guideline Rate
<b>Daily Living Expenses</b>	<b>YTG Guideline Rate</b>	<b>Cost</b>
4-person field personnel	\$100/person/7 days	YTG Guideline Rate
<b>Report &amp; Compilation</b>		2000
<b>TOTAL=</b>		<b>\$21, 995.00</b>

\*One day mobe in and one day mobe out.

## 11. Statement of Qualifications

I, Lauren R. Blackburn of PO Box 28, Keno City, Yukon, am an employee of *Keno Hill Exploration Corp.*

I am a 50% owner of the ROOP property with Matthias Bindig (50% owner).

I am a graduate of the University Alberta with a BSc. Specialization in Geology. I have worked in the Yukon Territory since 2006 and in northern Canada since 2005.

I consent to the use of this report by Keno Hill Exploration Corp. for such assessment and/or regulatory and financing purposes deemed necessary, but if any part shall be taken as an excerpt, it shall be done with my approval.

Dated at Whitehorse, Yukon Territory this 30<sup>th</sup> day of January 2011.



Lauren Blackburn B.Sc.  
*Keno Hill Exploration Corp.*,  
PO Box 28,  
Keno City, Yukon  
YoB 1Mo



## 12. BIBLIOGRAPHY

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## **13. APPENDICIES**

**Appendix I- MINFILE Occurrence (Avenue- 105M 044)**

# Yukon Geological Survey - MINFILE Database Search

**MINFILE#:** 105M 044

**UPDATED:** 1998-05-05

**PRIMARY NAME:** ROOP

**DEPOSIT TYPE:** W Skarn

**STATUS:** SHOWING

**TECTONIC ELEMENT:** POST-AMALGAMATION PLUTONIC ROCKS

**NTS MAP SHEET:** 105M15

**LATITUDE:** 63° 50' 52"

**LONGITUDE:** 134° 38' 47"

**OTHER NAME(S):**

**MAJOR COMMODITIES:**

**MINOR COMMODITIES:**

**TRACE COMMODITIES:**

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## **CLAIMS(PREVIOUS & CURRENT)**

NEVER STAKED

## **WORK HISTORY**

Discovered in 1943 by the GSC and apparently never investigated.

## **GEOLOGY**

Scheelite occurs as coarse crystals in skarny pegmatites and quartz veins at the contact of between a granite intrusion and metasedimentary rocks of the Late Proterozoic-Early Cambrian Hyland Group.

## **REFERENCES**

GEOLOGICAL SURVEY OF CANADA. Tungsten Deposits of Canada. Economic Geology Series NO. 17, p. 36-37.

ROOTS, C.F., AND MURPHY, D.C., 1992. Geology of Mayo Map Area (105M). Geological Survey of Canada Open File 2483.

**Appendix II- 2010 Assay Certificates- Rock- WHI10000660**



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

[www.acmelab.com](http://www.acmelab.com)

**Client:** Keno Hill Exploration

PO Box 15  
Keno City YT Y0B 1M0 Canada

Submitted By: Matthias Bindig

Receiving Lab: Canada-Whitehorse

Received: November 22, 2010

Report Date: December 22, 2010

Page: 1 of 2

## CERTIFICATE OF ANALYSIS

WHI10000660.1

### CLIENT JOB INFORMATION

Project: Roop Lakes  
Shipment ID:  
P.O. Number  
Number of Samples: 21

### SAMPLE DISPOSAL

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

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

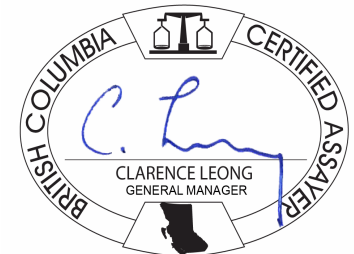
Invoice To: Keno Hill Exploration  
PO Box 15  
Keno City YT Y0B 1M0  
Canada

CC: Lauren Blackburn

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
7TD	2	4-acid Digestion ICP-ES Finish	0.5	Completed	VAN
R200-250	21	Crush, split and pulverize 250 g rock to 200 mesh			WHI
1F04	21	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN

### ADDITIONAL COMMENTS



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



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Project: Roop Lakes  
 Report Date: December 22, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI10000660.1

Method	7TD	WGHT	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	W	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	%	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
RR07	Rock	0.99	1.02	7.34	11.71	24.5	48	1.8	2.6	207	1.07	5.8	17.2	2.1	12.5	13.7	0.06	0.37	0.45	12	
RR08	Rock	0.65	0.13	6.47	17.12	9.5	45	0.6	0.8	154	0.45	6.2	23.8	2.4	11.5	115.3	0.02	0.34	7.46	3	
RR09	Rock	0.77	0.13	4.23	8.19	12.8	26	3.0	1.7	112	0.37	3.8	3.8	0.5	3.8	10.8	0.05	0.10	0.23	3	
RR10	Rock	0.67	0.07	1.72	21.90	5.5	64	0.4	0.2	44	0.22	2.4	5.9	0.9	4.6	4.6	0.02	0.17	0.80	<2	
RR11	Rock	0.78	3.67	8.05	16.58	37.0	109	11.7	4.7	300	2.10	2.7	3.4	1.2	7.2	8.7	0.02	0.06	0.29	10	
RR12	Rock	0.62	0.85	16.70	13.76	5.6	77	1.8	0.6	55	0.39	16.2	17.6	2.0	5.8	4.8	<0.01	0.11	2.07	<2	
RR13	Rock	0.64	0.11	5.82	11.73	21.7	36	1.2	0.6	99	0.34	4.5	22.8	1.3	7.7	5.9	0.07	0.20	2.60	<2	
RR14	Rock	0.40	0.23	4.34	21.16	33.0	97	3.4	4.8	345	1.27	2.5	3.6	0.7	8.6	3.6	0.03	0.09	2.87	14	
RR15	Rock	0.12	0.93	0.71	101.6	3.33	22.1	164	10.5	7.2	294	2.96	3.2	3.5	47.7	5.2	28.3	0.08	0.09	27.86	9
RR16	Rock	0.48	0.28	2.05	17.07	2.1	15	0.4	0.3	51	0.22	2.0	9.1	0.7	4.5	2.5	<0.01	0.14	0.27	<2	
RR17	Rock	0.33	1.04	2.82	153.6	3.47	24.2	395	4.4	4.6	680	6.65	1.1	7.1	62.5	12.5	6.4	0.10	0.19	17.22	13
RR18	Rock	0.86	1.38	40.42	7.16	49.4	43	18.0	9.0	237	2.22	87.7	1.1	5.1	6.4	60.8	0.03	0.09	0.29	43	
RR19	Rock	0.50	0.09	8.81	23.99	37.2	86	2.0	1.0	174	1.52	1.5	0.3	1.3	5.2	6.4	<0.01	0.05	0.52	10	
RR20	Rock	0.90	0.23	29.63	5.52	28.1	56	9.5	5.8	132	1.64	1.9	0.6	2.1	2.1	21.5	<0.01	0.05	0.23	10	
RR21	Rock	0.74	0.47	5.87	8.94	5.8	25	0.5	0.4	57	0.34	2.6	9.6	1.2	4.3	8.6	0.02	0.07	2.09	<2	
RR22	Rock	1.05	0.29	15.23	10.35	146.5	89	1.8	2.6	188	1.03	5.9	22.1	4.8	8.7	23.9	1.17	0.27	3.72	16	
RR23	Rock	1.18	0.62	34.93	7.91	24.0	101	3.7	0.6	48	0.88	7.1	23.8	7.8	6.7	2.2	0.06	0.28	13.42	6	
RR24	Rock	0.59	0.09	9.91	7.64	11.7	27	0.4	0.2	119	0.40	4.3	36.3	14.6	10.7	8.5	0.03	0.31	12.69	<2	
RR25	Rock	0.49	0.21	8.16	12.57	6.8	29	0.4	0.7	143	0.42	3.8	11.8	7.0	11.8	5.5	0.02	0.16	8.65	<2	
RR26	Rock	1.02	0.65	57.51	4.09	11.9	90	5.9	3.8	114	1.20	6.2	4.6	1.1	6.0	58.2	0.02	0.05	1.82	4	
RR27	Rock	0.71	0.12	8.75	8.96	4.6	18	0.6	0.5	84	0.34	4.5	12.8	2.5	5.5	5.0	<0.01	0.15	2.77	<2	



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Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

WHI10000660.1

Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	
RR07	Rock	0.10	0.017	6.3	6.2	0.26	51.7	0.042	<20	0.59	0.042	0.24	0.4	1.5	0.20	<0.02	9	0.2	0.02	3.1	2.77
RR08	Rock	0.12	0.006	4.4	1.5	0.08	50.5	0.010	<20	0.38	0.040	0.16	0.3	1.0	0.12	<0.02	<5	0.3	0.06	1.7	3.05
RR09	Rock	0.22	0.011	3.6	3.2	0.06	38.9	0.027	<20	0.39	0.042	0.11	2.6	0.8	0.08	<0.02	6	0.1	0.03	1.5	1.71
RR10	Rock	0.03	<0.001	0.7	0.7	<0.01	12.5	<0.001	<20	0.18	0.016	0.12	0.2	0.2	0.05	<0.02	<5	<0.1	0.05	0.4	1.16
RR11	Rock	0.08	0.011	14.1	13.3	0.29	165.0	0.002	<20	0.82	0.009	0.17	0.1	0.8	0.11	0.02	<5	<0.1	0.03	3.6	1.40
RR12	Rock	0.07	0.002	<0.5	1.0	0.02	20.5	0.002	<20	0.26	0.031	0.06	0.6	0.2	0.03	<0.02	<5	0.4	0.07	0.8	0.93
RR13	Rock	0.11	0.003	3.3	0.9	0.06	9.4	0.010	<20	0.25	0.037	0.10	0.3	0.7	0.07	0.03	<5	0.3	0.03	1.2	1.81
RR14	Rock	0.09	0.033	6.1	8.2	0.44	73.3	<0.001	<20	0.77	0.013	0.17	0.1	1.5	0.10	<0.02	<5	0.2	0.04	3.5	2.56
RR15	Rock	0.59	0.068	10.4	6.4	0.15	26.2	0.031	<20	0.55	0.096	0.03	>100	1.0	<0.02	0.04	*	1.2	0.42	2.9	0.28
RR16	Rock	0.02	0.001	<0.5	0.6	<0.01	21.4	0.003	<20	0.18	0.037	0.13	3.6	0.3	0.06	<0.02	<5	0.1	0.04	0.7	0.67
RR17	Rock	0.30	0.048	11.1	8.5	0.10	16.3	0.057	<20	0.41	0.019	0.01	>100	1.8	0.03	0.05	<5	2.0	0.10	3.7	0.28
RR18	Rock	1.15	0.037	11.7	34.5	0.57	220.9	0.088	<20	2.59	0.119	0.65	2.7	3.9	0.41	0.16	<5	0.3	0.04	6.9	4.60
RR19	Rock	0.08	0.015	4.4	12.3	0.39	70.0	0.077	<20	0.88	0.031	0.53	0.7	1.7	0.32	0.05	<5	0.3	0.04	2.7	1.69
RR20	Rock	0.38	0.016	4.4	10.1	0.34	30.2	0.035	<20	1.38	0.019	0.32	0.8	1.7	0.24	0.18	<5	0.3	0.03	3.2	1.48
RR21	Rock	0.07	0.003	2.1	0.8	0.02	13.0	0.003	<20	0.21	0.037	0.11	1.2	0.4	0.05	<0.02	<5	0.1	0.03	0.7	0.68
RR22	Rock	0.20	0.020	9.1	7.1	0.30	91.4	0.067	<20	0.68	0.101	0.39	1.7	1.6	0.23	0.02	9	0.4	0.05	3.0	3.41
RR23	Rock	0.03	0.009	2.2	4.9	0.10	9.3	0.002	<20	0.24	0.028	0.06	2.4	0.6	<0.02	0.10	11	1.0	0.06	0.9	0.30
RR24	Rock	0.05	0.002	2.2	0.6	0.03	63.8	0.012	<20	0.24	0.057	0.08	0.9	0.9	0.06	0.02	8	0.3	0.06	1.4	1.41
RR25	Rock	0.04	0.002	2.2	1.1	0.04	222.5	0.004	<20	0.26	0.032	0.10	0.7	0.6	0.07	<0.02	<5	0.3	0.06	1.6	1.62
RR26	Rock	0.68	0.011	4.8	4.9	0.12	31.3	0.018	<20	1.20	0.088	0.08	1.5	0.8	0.05	0.05	<5	0.4	0.08	2.7	1.61
RR27	Rock	0.04	0.002	1.9	0.9	0.02	43.3	0.005	<20	0.20	0.038	0.10	1.0	0.7	0.05	<0.02	5	0.2	0.03	0.8	1.26





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Project: Roop Lakes  
 Report Date: December 22, 2010

Page: 2 of 2 Part 3

CERTIFICATE OF ANALYSIS

WHI10000660.1

Method	Analyte	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
RR07	Rock	<0.1	0.10	1.58	30.3	1.3	<0.05	2.0	8.64	14.5	<0.02	<1	0.2	24.3	<10	<2
RR08	Rock	<0.1	0.15	3.43	20.2	1.2	<0.05	2.1	13.82	7.6	<0.02	2	0.4	8.2	<10	<2
RR09	Rock	<0.1	0.12	1.40	12.8	2.0	<0.05	2.4	8.26	11.6	<0.02	1	0.2	6.8	<10	<2
RR10	Rock	<0.1	0.24	1.38	9.6	0.1	<0.05	3.4	8.05	1.4	<0.02	2	0.2	1.0	<10	<2
RR11	Rock	<0.1	0.13	0.47	16.4	0.5	<0.05	2.0	6.84	28.9	<0.02	<1	0.3	22.5	<10	<2
RR12	Rock	<0.1	0.29	3.55	6.7	<0.1	<0.05	4.2	19.08	1.1	<0.02	<1	0.3	0.9	<10	<2
RR13	Rock	<0.1	0.27	2.09	12.6	1.0	<0.05	4.1	14.56	6.7	<0.02	<1	0.3	8.5	<10	<2
RR14	Rock	<0.1	0.02	0.88	16.0	1.2	<0.05	1.0	9.28	21.3	<0.02	2	0.5	23.2	<10	<2
RR15	Rock	0.3	0.07	4.97	3.1	2.3	<0.05	1.2	13.70	20.0	0.03	3	1.0	1.4	<10	3
RR16	Rock	<0.1	0.32	5.27	11.1	0.2	<0.05	3.0	22.95	0.6	<0.02	2	0.2	1.1	<10	<2
RR17	Rock	0.6	0.15	17.24	1.1	14.9	0.29	1.5	26.66	22.9	0.03	10	1.8	2.2	<10	<2
RR18	Rock	<0.1	<0.02	0.27	56.8	0.7	<0.05	0.4	5.23	25.0	<0.02	<1	1.1	26.9	<10	<2
RR19	Rock	<0.1	<0.02	0.32	48.8	0.3	<0.05	0.5	2.55	9.3	<0.02	<1	0.2	9.3	<10	<2
RR20	Rock	<0.1	<0.02	0.21	27.2	0.2	<0.05	0.3	1.83	8.8	<0.02	<1	0.5	11.8	<10	<2
RR21	Rock	<0.1	0.04	1.05	8.4	0.5	<0.05	0.6	9.23	5.1	<0.02	<1	0.2	1.5	<10	<2
RR22	Rock	<0.1	0.06	0.68	40.4	1.4	<0.05	1.4	11.57	19.6	0.06	<1	0.1	16.7	<10	<2
RR23	Rock	<0.1	0.10	9.33	3.8	0.2	<0.05	1.9	39.01	4.0	<0.02	<1	0.1	3.6	<10	<2
RR24	Rock	<0.1	0.16	1.80	10.9	1.1	<0.05	4.2	9.05	6.8	<0.02	<1	0.1	7.5	<10	<2
RR25	Rock	<0.1	0.10	1.99	16.2	0.5	<0.05	2.5	7.48	4.9	<0.02	4	0.2	3.2	<10	<2
RR26	Rock	<0.1	0.02	1.02	9.0	2.5	<0.05	0.5	4.96	10.4	<0.02	<1	0.4	5.7	<10	<2
RR27	Rock	<0.1	0.10	1.47	10.2	0.7	<0.05	1.7	12.20	4.6	<0.02	<1	<0.1	2.5	<10	<2



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Project: Roop Lakes  
 Report Date: December 22, 2010

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI10000660.1

Method	7TD	WGHT	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
Analyte	W	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
Unit	%	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.01	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2
Pulp Duplicates																				
RR08	Rock	0.65	0.13	6.47	17.12	9.5	45	0.6	0.8	154	0.45	6.2	23.8	2.4	11.5	115.3	0.02	0.34	7.46	3
REP RR08	QC		0.13	6.65	16.50	8.9	46	0.5	0.7	143	0.43	7.3	23.9	1.1	11.2	109.6	0.01	0.31	7.19	3
Core Reject Duplicates																				
RR18	Rock	0.86	1.38	40.42	7.16	49.4	43	18.0	9.0	237	2.22	87.7	1.1	5.1	6.4	60.8	0.03	0.09	0.29	43
DUP RR18	QC		1.66	49.17	6.91	47.2	51	17.6	10.3	227	2.27	148.2	1.2	3.9	6.9	54.1	0.02	0.10	0.37	42
Reference Materials																				
STD DS7	Standard		20.03	99.43	62.13	373.6	893	50.8	8.5	602	2.34	51.7	4.1	59.2	4.0	67.6	6.06	4.66	4.20	76
STD DS7	Standard		20.87	130.5	66.05	397.9	959	52.4	9.0	608	2.28	48.7	4.2	55.7	4.0	68.4	6.26	3.74	4.50	78
STD DS8	Standard		12.86	110.5	117.8	309.1	1787	37.4	7.0	636	2.59	26.8	2.5	94.9	6.2	65.8	2.34	4.67	6.43	41
STD DS8	Standard		12.53	106.8	118.0	307.3	1695	36.2	6.8	598	2.35	23.3	2.4	89.0	5.5	60.2	2.15	3.98	6.41	39
STD OREAS131A	Standard	<0.01																		
STD OREAS131A	Standard	<0.01																		
STD OREAS45PA	Standard		0.87	560.0	16.51	109.1	290	276.6	91.4	1078	15.15	3.7	1.0	42.3	6.0	12.6	0.08	0.16	0.17	216
STD OREAS45PA	Standard		0.74	529.8	17.24	106.6	285	246.2	96.2	978	14.83	3.0	1.0	37.5	5.8	12.5	0.08	0.11	0.17	196
STD R4T	Standard	<0.01																		
STD R4T	Standard	<0.01																		
STD SU-1B	Standard	<0.01																		
STD SU-1B	Standard	<0.01																		
STD DS7 Expected			20.5	109	70.6	411	890	56	9.7	627	2.39	50	4.9	70	4.4	72.3	6.38	4.6	4.51	84
STD OREAS45PA Expected			0.9	600	19	119	300	281	104	1130	16.559	4.2	1.2	43	6	14	0.09	0.13	0.18	221
STD DS8 Expected			13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	4.8	6.67	41.1
STD R4T Expected		0.00016																		
STD OREAS131A Expected		0.0005																		
STD SU-1B Expected		0.0007																		
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
BLK	Blank	<0.01																		
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
BLK	Blank	<0.01																		

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Project: Roop Lakes  
 Report Date: December 22, 2010

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI10000660.1

Method	Analyte	Unit	MDL	1F Ca	1F P	1F La	1F Cr	1F Mg	1F Ba	1F Ti	1F B	1F Al	1F Na	1F K	1F W	1F Sc	1F Ti	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs
				%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
Pulp Duplicates																							
RR08	Rock			0.12	0.006	4.4	1.5	0.08	50.5	0.010	<20	0.38	0.040	0.16	0.3	1.0	0.12	<0.02	<5	0.3	0.06	1.7	3.05
REP RR08	QC			0.12	0.005	4.2	1.5	0.07	46.6	0.009	<20	0.38	0.041	0.16	0.3	0.9	0.11	<0.02	<5	<0.1	0.06	1.6	2.90
Core Reject Duplicates																							
RR18	Rock			1.15	0.037	11.7	34.5	0.57	220.9	0.088	<20	2.59	0.119	0.65	2.7	3.9	0.41	0.16	<5	0.3	0.04	6.9	4.60
DUP RR18	QC			1.03	0.041	11.1	33.3	0.55	199.5	0.085	<20	2.37	0.105	0.62	4.7	3.8	0.38	0.19	<5	0.4	0.06	6.4	4.53
Reference Materials																							
STD DS7	Standard			0.89	0.078	11.9	174.3	1.00	383.7	0.110	35	0.96	0.092	0.44	3.0	2.4	3.59	0.19	197	3.2	1.22	4.6	6.27
STD DS7	Standard			0.92	0.075	11.7	180.3	1.03	411.6	0.111	32	0.98	0.092	0.45	3.7	2.4	4.08	0.19	206	3.5	1.37	4.6	5.93
STD DS8	Standard			0.70	0.088	15.0	118.5	0.62	303.4	0.114	<20	0.91	0.095	0.41	2.6	2.3	5.14	0.17	181	5.5	5.34	4.9	2.60
STD DS8	Standard			0.66	0.075	13.2	109.6	0.59	282.7	0.102	<20	0.88	0.082	0.40	2.9	2.0	5.27	0.16	188	5.2	4.53	4.3	2.31
STD OREAS131A	Standard																						
STD OREAS131A	Standard																						
STD OREAS45PA	Standard			0.21	0.034	14.9	693.3	0.09	163.8	0.118	<20	3.03	0.010	0.07	<0.1	41.5	0.07	0.02	30	0.2	0.09	14.9	0.91
STD OREAS45PA	Standard			0.20	0.030	14.3	733.8	0.09	170.8	0.111	<20	2.61	0.008	0.07	0.2	39.5	0.07	<0.02	28	0.3	0.04	14.3	0.85
STD R4T	Standard																						
STD R4T	Standard																						
STD SU-1B	Standard																						
STD SU-1B	Standard																						
STD DS7 Expected				0.93	0.08	12.7	192	1.05	410	0.124	38.6	1.0195	0.089	0.44	3.4	2.5	4.19	0.19	210	3.5	1.18	4.6	6.36
STD OREAS45PA Expected				0.2411	0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	43	0.07	0.03	30	0.54		16.8	1
STD DS8 Expected				0.7	0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48
STD R4T Expected																							
STD OREAS131A Expected																							
STD SU-1B Expected																							
BLK	Blank			<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02
BLK	Blank																						
BLK	Blank			<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02
BLK	Blank																						

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Project: Roop Lakes  
 Report Date: December 22, 2010

Page: 1 of 2 Part 3

# QUALITY CONTROL REPORT

WHI10000660.1

Method	Analyte	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce	1F In	1F Re	1F Be	1F Li	1F Pd	1F Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates																
RR08	Rock	<0.1	0.15	3.43	20.2	1.2	<0.05	2.1	13.82	7.6	<0.02	2	0.4	8.2	<10	<2
REP RR08	QC	<0.1	0.15	3.46	18.6	1.1	<0.05	2.3	13.48	7.3	<0.02	1	0.3	6.9	<10	<2
Core Reject Duplicates																
RR18	Rock	<0.1	<0.02	0.27	56.8	0.7	<0.05	0.4	5.23	25.0	<0.02	<1	1.1	26.9	<10	<2
DUP RR18	QC	<0.1	<0.02	0.27	52.4	0.7	<0.05	0.4	5.26	23.7	<0.02	3	1.2	26.1	<10	<2
Reference Materials																
STD DS7	Standard	<0.1	0.10	0.35	34.9	4.9	<0.05	4.8	5.39	35.2	1.57	6	1.6	25.3	63	36
STD DS7	Standard	<0.1	0.10	0.32	36.2	4.9	<0.05	5.3	5.31	36.3	1.46	6	1.3	26.5	68	31
STD DS8	Standard	0.1	0.08	1.03	38.5	7.0	<0.05	1.9	5.80	27.6	2.36	49	4.8	24.3	115	333
STD DS8	Standard	<0.1	0.08	0.93	37.0	6.2	<0.05	2.1	5.26	25.7	2.07	57	5.0	24.0	114	328
STD OREAS131A	Standard															
STD OREAS131A	Standard															
STD OREAS45PA	Standard	0.1	0.45	0.38	7.8	1.5	<0.05	19.5	7.87	32.9	0.10	2	0.7	4.6	43	68
STD OREAS45PA	Standard	<0.1	0.48	0.32	7.6	1.4	<0.05	20.3	7.87	32.6	0.06	<1	0.4	4.6	39	67
STD R4T	Standard															
STD R4T	Standard															
STD SU-1B	Standard															
STD SU-1B	Standard															
STD DS7 Expected		0.1	0.11	0.71	35.8	4.61		5.4	5.18	36	1.57	4	1.6	29.3	70	40
STD OREAS45PA Expected			0.51	0.21	8.9	1.6		20.5		34	0.09		0.6	5.8	54	72
STD DS8 Expected		0.13	0.08	1.1	39	6.7	0.003	1.1	6.1	29.8	2.19	55	5.2	26.34	110	339
STD R4T Expected																
STD OREAS131A Expected																
STD SU-1B Expected																
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank															
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank															



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Project: Roop Lakes

Report Date: December 22, 2010

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI10000660.1

		7TD	WGHT	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F		
		W	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		%	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
Prep Wash																						
G1	Prep Blank			0.12	4.39	7.55	58.7	192	2.8	3.8	558	1.81	22.6	1.4	3.4	4.7	55.5	0.22	0.29	0.22	32	
G1	Prep Blank			0.10	1.96	3.74	47.1	41	3.1	3.7	515	1.82	5.2	1.5	1.0	4.5	56.5	0.04	0.06	0.06	33	



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Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI10000660.1

		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
		0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02
Prep Wash																					
G1	Prep Blank	0.42	0.079	9.0	5.2	0.53	198.9	0.116	<20	0.84	0.068	0.43	<0.1	1.8	0.28	<0.02	<5	<0.1	<0.02	4.6	2.71
G1	Prep Blank	0.48	0.084	8.3	5.6	0.53	206.2	0.118	<20	0.87	0.070	0.44	0.1	1.9	0.30	<0.02	<5	0.1	0.03	4.9	2.80



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Page: 2 of 2 Part 3

## QUALITY CONTROL REPORT

WHI10000660.1

		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
Prep Wash		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
G1	Prep Blank	0.1	0.07	0.32	37.3	1.4	<0.05	1.2	4.49	18.0	0.03	2	0.2	26.3	<10	<2
G1	Prep Blank	<0.1	0.09	0.31	39.4	0.6	<0.05	1.3	4.77	17.1	<0.02	<1	0.2	27.0	<10	<2

## **Appendix III- 2010 Soil Sample Data**



Waypoint	Easting_ NAD83	Northing_ NAD83	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)
L-A01	517000	7078425	0.6	10.7	7.1	45	<0.1	11.8	3.6	103	1.11	3.7	3.3
L-A02	517004	7078474	1	18	12.5	56	0.1	15.1	4.9	137	1.77	6.5	6.1
L-A03	516997	7078524	1.2	11.5	11.6	41	<0.1	12.1	4.8	131	2.11	7.6	1
L-A05	517007	7078626	1.2	11.2	9.8	56	<0.1	14.4	5.9	156	1.91	8.3	2.2
L-A06	516998	7078668	1	5.6	10.2	24	<0.1	6	2	70	1.92	6.8	0.4
L-A08	517001	7078769	0.9	13.6	10.3	30	0.3	7.8	2.7	141	0.98	3.1	3.6
L-A09	517006	7078825	1.3	11.8	17.9	57	0.2	13.5	6.1	169	2.28	7.3	1.7
L-A11	517000	7078918	1.7	15.8	14	63	0.2	19	13.3	331	1.83	7.9	7.6
L-A12	517000	7078971	1.5	20.3	13.3	67	0.2	20.6	9.7	261	1.81	6.8	10.6
L-A14	517000	7079066	4.3	40.1	20.6	81	0.3	30.5	14.7	879	3.3	16.9	19.4
L-A15	516997	7079124	1.3	25.4	10.9	58	0.3	24.9	8.5	186	1.7	5.9	21
L-A17	517006	7079226	1.4	14	12	51	<0.1	16.9	6.7	144	2.2	7.7	0.9
L-A18	517004	7079278	2	13.6	13.1	45	<0.1	14.7	5.6	151	2.27	9.3	0.6
L-A20	517015	7079364	1.3	30.1	14.1	52	<0.1	31.5	9.2	176	2.17	8.5	1.2
L-A21	517022	7079422	1.2	26.1	14.7	82	0.1	31	9.9	319	2.57	7.9	11.5
L-A23	517014	7079514	0.9	44.2	21.6	74	<0.1	37.6	12.6	271	2.48	10	6.7
L-A24	517001	7079586	1.7	42.3	51.5	95	<0.1	49.7	17.4	204	2.88	12.6	0.6
L-A26	517010	7079673	2.4	14.7	13.5	47	0.2	21	10.5	190	2.4	9.6	3.1
L-A27	517002	7079733	1.4	26.4	11.1	57	<0.1	21.9	7.3	163	2.28	9.5	2.6
L-A29	517001	7079828	1	15.6	3.4	49	0.2	8.6	1.5	141	0.26	0.9	13.8
L-A30	517002	7079871	3.5	49.3	6.5	29	0.3	23.1	23.5	1790	1.53	10.1	73.7
L-A32	517006	7079975	0.2	3.4	1.4	9	<0.1	3.1	0.4	27	0.12	0.8	0.9
L-A33	517001	7080026	1.7	16.7	15.3	56	<0.1	24.1	8.6	157	2.85	11.9	1
L-A35	517001	7080126	1.4	18.7	14.1	67	<0.1	25.3	12.7	214	2.69	10.4	1.5
L-A36	516998	7080180	2.7	23.7	12.7	78	0.1	16.2	8.1	249	2.42	9.2	15.1
L-A38	517007	7080272	5	33.1	4.4	34	0.2	13.4	16.7	2436	1.18	3.7	49.1
L-A39	517004	7080329	9.1	32.7	1.8	12	0.1	12.4	15.5	981	1.2	5.7	60
L-A41	517004	7080428	1.9	28	14.5	91	0.2	32	11.9	252	3.2	15.3	0.7
L-A42	517001	7080469	3	36.1	27.6	124	0.2	28	11.8	290	4.25	23.9	0.7
L-A44	517003	7080570	0.6	23	17.2	100	0.1	23.2	6.7	202	2.03	5.4	2.7
L-A45	516999	7080627	0.7	10.9	12.5	80	<0.1	17.8	8.8	314	2	7.3	0.7
L-B02	517150	7078462	0.7	15.4	9.3	65	0.3	15.8	5.2	184	1.44	3.8	12.9
L-B05	517163	7078598	1.3	27.5	17.3	63	0.2	19.3	8.2	426	1.93	9.2	6.8
L-B06	517163	7078653	2.5	20.4	14.6	58	0.1	16.1	6.7	257	2.07	8.8	9
L-B08	517164	7078755	1.7	27.8	15.9	72	0.2	24.1	13.7	366	2.12	7.6	11.3
L-B09	517161	7078798	1.7	33	18.1	89	0.3	26.2	13.1	575	2.13	9.3	21.8
L-B11	517162	7078904	2.1	27	21.7	70	0.2	24.2	10.3	356	2.1	8.6	23.9
L-B12	517160	7078952	3.2	35.6	17.7	75	0.4	24.1	10.9	611	1.94	8.6	28.6
L-B14	517165	7079066	3.4	52.1	35.2	103	0.3	37.4	12.2	330	3.43	15.6	15.4
L-B15	517157	7079101	2.5	49.3	21.3	91	0.2	43.5	15.9	506	2.72	18.1	16.4
L-B17	517158	7079201	1.2	29.2	11.9	63	0.1	23.5	7	178	2.03	8.8	4.9
L-B18	517157	7079261	1.9	35.1	16.1	46	0.4	24	7.8	288	1.72	6.7	32.7
L-B20	517151	7079377	3	14.5	15.2	47	<0.1	17.5	6.3	124	2.88	10.8	2
L-B21	517155	7079397	1.2	30.8	15.1	62	<0.1	36.3	10.9	196	2.72	13.3	0.7

Waypoint	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)
L-A01	1.7	2.7	13	<0.1	0.2	0.1	19	0.16	0.034	14	15	0.3	228
L-A02	2.5	2.5	14	0.2	0.3	0.3	28	0.17	0.049	14	20	0.34	222
L-A03	1	4	5	<0.1	0.4	0.2	35	0.04	0.019	13	19	0.25	82
L-A05	1.5	4.2	12	0.1	0.4	0.2	30	0.12	0.036	14	18	0.34	130
L-A06	<0.5	2.6	4	<0.1	0.4	0.2	52	0.03	0.015	11	15	0.12	49
L-A08	0.7	0.8	10	0.2	0.1	0.2	27	0.1	0.034	11	13	0.17	155
L-A09	<0.5	3.5	8	<0.1	0.2	0.4	47	0.08	0.018	12	23	0.34	121
L-A11	0.9	5.1	17	0.2	0.3	0.3	29	0.24	0.052	17	19	0.39	271
L-A12	0.8	3.7	19	0.2	0.2	0.3	32	0.24	0.046	20	21	0.41	249
L-A14	3.3	5.1	23	0.2	0.5	0.6	36	0.35	0.058	23	25	0.46	291
L-A15	1.9	2.2	27	0.2	0.4	0.3	23	0.42	0.06	25	22	0.34	348
L-A17	<0.5	3.4	8	<0.1	0.4	0.2	42	0.08	0.02	12	23	0.39	194
L-A18	<0.5	4.2	6	0.1	0.5	0.2	47	0.05	0.017	13	22	0.32	163
L-A20	0.6	4.2	10	<0.1	0.5	0.2	30	0.1	0.027	12	24	0.41	307
L-A21	2	7.5	24	<0.1	0.5	0.2	29	0.3	0.042	19	19	0.55	397
L-A23	1.6	7.1	11	0.1	0.5	0.2	39	0.11	0.017	21	35	0.59	450
L-A24	<0.5	5.7	9	0.1	0.5	0.3	39	0.09	0.021	14	35	0.57	523
L-A26	<0.5	5.3	13	<0.1	0.4	0.2	46	0.15	0.029	15	24	0.37	443
L-A27	1.6	5.2	16	<0.1	0.6	0.2	36	0.17	0.041	16	23	0.39	352
L-A29	<0.5	0.7	37	0.7	0.2	<0.1	<2	0.67	0.038	7	6	0.04	461
L-A30	3	2	96	1.2	1.1	0.2	10	2.95	0.116	26	9	0.11	814
L-A32	<0.5	0.1	34	<0.1	0.1	<0.1	<2	0.84	0.032	<1	5	0.07	61
L-A33	1	4.4	6	0.1	0.4	0.2	49	0.04	0.031	12	24	0.34	173
L-A35	1.2	5	6	0.1	0.5	0.3	37	0.06	0.017	13	27	0.46	151
L-A36	1	4.4	18	0.5	0.5	1.2	41	0.23	0.036	17	23	0.34	244
L-A38	0.7	1	90	1.5	0.9	<0.1	4	2.14	0.109	13	9	0.12	724
L-A39	<0.5	0.7	91	0.8	1.1	<0.1	7	2.25	0.089	7	6	0.09	583
L-A41	0.9	4.6	11	0.3	0.9	0.2	55	0.07	0.041	15	32	0.46	571
L-A42	23.9	4.8	11	0.4	1.5	0.3	45	0.05	0.053	16	24	0.3	717
L-A44	0.8	4.2	33	0.3	0.5	0.2	22	0.42	0.056	15	20	0.4	395
L-A45	<0.5	5.2	11	0.2	0.5	0.1	14	0.1	0.049	16	13	0.26	251
L-B02	1.5	3.5	27	0.3	0.3	0.3	22	0.35	0.04	20	20	0.39	348
L-B05	0.9	1.4	17	0.2	0.5	0.3	26	0.2	0.076	14	19	0.33	311
L-B06	1.2	4.3	12	0.1	0.3	0.4	34	0.12	0.04	17	22	0.42	169
L-B08	0.6	3.4	25	0.2	0.3	0.4	34	0.41	0.053	21	24	0.47	209
L-B09	3.2	3.9	32	0.4	0.4	0.5	30	0.67	0.066	21	21	0.44	345
L-B11	1.9	4.9	21	0.2	0.4	0.4	32	0.34	0.046	24	23	0.42	355
L-B12	1.4	0.7	26	0.4	0.4	0.4	30	0.53	0.098	33	18	0.3	395
L-B14	2.3	9.3	15	0.4	0.4	1.4	53	0.14	0.065	30	31	0.53	186
L-B15	2.8	6.1	33	0.1	0.4	0.8	35	0.69	0.047	22	31	0.52	320
L-B17	1	4.1	11	0.1	0.4	0.2	33	0.13	0.043	15	21	0.4	147
L-B18	2.5	1.3	38	0.3	0.4	0.3	23	0.78	0.096	26	22	0.25	563
L-B20	0.6	5.3	5	<0.1	0.4	0.3	54	0.04	0.026	11	25	0.33	130
L-B21	1.2	4.7	10	0.1	0.4	0.2	42	0.1	0.027	12	29	0.48	302

Waypoint	Ti (%)	Bi (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Hg (ppm)	Sc (ppm)	Ti (ppm)	S (%)	Ga (ppm)	Se (ppm)	Te (ppm)
L-A01	0.03	<20	0.84	0.008	0.05	0.1	0.04	1.5	0.2	<0.05	3	<0.5	<0.2
L-A02	0.033	<20	1.03	0.01	0.06	0.1	0.05	1.7	0.2	<0.05	4	0.5	<0.2
L-A03	0.036	<20	1.07	0.005	0.04	0.2	0.02	1.4	0.1	<0.05	4	<0.5	<0.2
L-A05	0.039	<20	0.92	0.009	0.06	0.1	0.05	1.5	0.2	<0.05	4	<0.5	<0.2
L-A06	0.028	<20	0.92	0.004	0.02	0.1	0.03	1	<0.1	<0.05	5	<0.5	<0.2
L-A08	0.023	<20	0.66	0.011	0.05	0.1	0.05	1.1	0.2	<0.05	4	<0.5	<0.2
L-A09	0.037	<20	1.33	0.008	0.05	0.1	0.03	1.8	0.2	<0.05	6	<0.5	<0.2
L-A11	0.041	<20	1.08	0.014	0.1	0.4	0.04	2.1	0.2	<0.05	4	<0.5	<0.2
L-A12	0.042	<20	1.22	0.012	0.08	0.4	0.04	2.3	0.2	<0.05	4	<0.5	<0.2
L-A14	0.03	<20	1.5	0.012	0.09	0.2	0.08	2.7	0.3	<0.05	5	<0.5	<0.2
L-A15	0.024	<20	1.24	0.015	0.07	0.1	0.07	2.4	0.2	<0.05	4	<0.5	<0.2
L-A17	0.029	<20	1.46	0.005	0.04	0.1	0.02	2	0.2	<0.05	4	<0.5	<0.2
L-A18	0.021	<20	1.56	0.003	0.03	<0.1	<0.01	1.8	0.1	<0.05	4	<0.5	<0.2
L-A20	0.032	<20	1.35	0.01	0.07	0.1	0.01	2.2	0.1	<0.05	4	<0.5	<0.2
L-A21	0.044	<20	1.47	0.02	0.15	0.2	0.06	2.8	0.2	<0.05	4	<0.5	<0.2
L-A23	0.071	<20	1.8	0.016	0.08	0.2	0.06	5.7	0.2	<0.05	5	0.7	<0.2
L-A24	0.055	<20	2.32	0.01	0.07	0.2	0.03	3.4	0.2	<0.05	5	<0.5	<0.2
L-A26	0.025	<20	1.6	0.006	0.04	0.1	0.02	2.2	0.1	<0.05	5	<0.5	<0.2
L-A27	0.03	<20	1.26	0.01	0.06	0.2	0.04	2.6	0.1	<0.05	4	<0.5	<0.2
L-A29	0.006	<20	0.19	0.026	<0.01	<0.1	0.06	0.8	<0.1	0.15	<1	<0.5	<0.2
L-A30	0.008	<20	0.7	0.021	0.02	0.2	0.14	1.7	0.2	0.22	1	1.7	<0.2
L-A32	0.004	<20	0.1	0.032	0.02	<0.1	0.05	0.4	<0.1	0.11	<1	<0.5	<0.2
L-A33	0.036	<20	1.96	0.005	0.04	0.3	0.03	2.3	0.1	<0.05	6	<0.5	<0.2
L-A35	0.046	<20	1.91	0.007	0.06	0.2	0.02	2.3	0.1	<0.05	5	<0.5	<0.2
L-A36	0.032	<20	1.3	0.01	0.06	0.4	0.04	2.4	0.2	<0.05	5	<0.5	<0.2
L-A38	0.005	<20	0.46	0.027	0.02	<0.1	0.11	1.3	0.2	0.36	<1	<0.5	<0.2
L-A39	0.006	<20	0.44	0.027	0.02	<0.1	0.08	1.3	<0.1	0.22	<1	1.1	<0.2
L-A41	0.025	<20	2.05	0.005	0.06	0.1	0.07	3.2	0.1	<0.05	5	<0.5	<0.2
L-A42	0.013	<20	1.4	0.005	0.04	0.1	0.12	2.5	0.1	<0.05	4	0.6	0.3
L-A44	0.01	<20	1.05	0.01	0.05	<0.1	0.06	2.2	<0.1	<0.05	3	0.7	<0.2
L-A45	0.008	<20	0.67	0.003	0.03	<0.1	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
L-B02	0.034	<20	1.1	0.013	0.07	0.2	0.04	2.2	0.2	<0.05	4	<0.5	<0.2
L-B05	0.032	<20	0.99	0.014	0.11	0.2	0.07	1.8	0.2	<0.05	3	<0.5	<0.2
L-B06	0.049	<20	1.22	0.011	0.08	0.1	0.06	2.3	0.2	<0.05	4	<0.5	<0.2
L-B08	0.047	<20	1.31	0.015	0.08	0.2	0.06	2.6	0.2	<0.05	5	0.7	<0.2
L-B09	0.04	<20	1.22	0.012	0.13	0.3	0.06	2.4	0.3	<0.05	4	0.5	<0.2
L-B11	0.041	<20	1.29	0.009	0.08	0.3	0.07	2.2	0.3	<0.05	4	<0.5	<0.2
L-B12	0.025	<20	1.14	0.01	0.08	0.3	0.13	1.2	0.2	0.06	4	0.6	<0.2
L-B14	0.059	<20	2.04	0.013	0.14	0.4	0.06	3.2	0.3	<0.05	8	<0.5	0.2
L-B15	0.034	<20	1.61	0.015	0.13	0.3	0.06	2.5	0.3	<0.05	5	0.6	<0.2
L-B17	0.035	<20	1.23	0.006	0.06	<0.1	0.03	1.8	0.2	<0.05	4	<0.5	<0.2
L-B18	0.019	<20	1.21	0.015	0.09	0.1	0.12	1.6	0.2	0.12	4	0.8	<0.2
L-B20	0.045	<20	1.87	0.006	0.07	0.1	0.03	1.9	0.2	<0.05	7	<0.5	<0.2
L-B21	0.044	<20	1.6	0.008	0.06	0.3	0.02	2.3	0.2	<0.05	5	<0.5	<0.2

Waypoint	Easting_ NAD83	Northing_ NAD83	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)
L-B23	517161	7079492	2.2	14.3	16.4	61	<0.1	18.3	7	125	2.58	12	3.3
L-B24	517162	7079553	2.5	10.3	7.7	45	<0.1	13.3	4.4	104	1.4	4.4	6.7
L-B26	517159	7079645	1.5	27.4	11.5	72	0.2	23.3	9.5	265	1.92	8.7	12.4
L-B27	517148	7079710	1.2	22.3	9.9	48	<0.1	25.1	6.8	138	2.13	8.7	0.6
L-B29	517155	7079796	6.8	17.8	11.4	89	<0.1	18.7	12.5	1114	3.32	24.8	5.2
L-B30	517150	7079849	0.5	3.8	5.5	13	<0.1	3.5	0.7	24	0.36	1.1	0.8
L-B32	517160	7079943	1.9	37.1	18.1	59	<0.1	27	9.8	155	2.93	11.2	2.7
L-B33	517148	7080001	1.7	20.6	14.1	60	<0.1	23.5	8.6	165	2.56	11.6	2
L-B35	517145	7080111	1.5	29.6	12.5	50	<0.1	22.9	6.7	158	1.98	7.8	4
L-B36	517163	7080240	2.9	29.1	13	69	<0.1	23.6	9.1	272	2.5	13.2	8.5
L-B38	517155	7080350	4.7	25.2	20.1	43	0.2	15.6	5.4	107	2.49	9.4	15.7
L-B39	517154	7080403	6.5	12.9	13.3	54	<0.1	15.6	7.2	204	3.29	18.5	3.2
L-B41	517143	7080487	7.1	46.6	29.7	113	0.5	33.5	18.2	579	3.14	63.3	281.7
L-B44	517148	7080635	4.1	31	52.6	122	0.4	34.9	12.9	901	3.25	16.9	1.1
L-C02	517300	7078475	3.1	32.3	16.1	62	0.3	22.8	7	171	2.49	8.7	22.3
L-C03	517298	7078525	2	36	16.2	93	0.2	32.3	12.4	546	2.41	9.6	8.7
L-C05	517299	7078625	2.7	54.9	15	61	0.2	17.7	7.5	398	4.35	10	16.5
L-C06	517299	7078675	3.3	48.2	22.1	90	0.4	24.7	13.2	399	4.07	12.3	15.9
L-C08	517300	7078775	6.8	53	68.3	70	0.4	51.2	10.9	1489	2.28	8.3	56.9
L-C09	517299	7078825	10.4	26.8	14.7	92	0.3	16.1	11.2	633	4.31	9.7	9.9
L-C11	517300	7078925	3.2	55.2	22.2	89	0.2	42.3	17	221	3.08	15.6	7.7
L-C12	517300	7078975	3.5	81.2	52.2	161	0.5	55.2	22.8	503	3.96	20.7	8.5
L-C14	517299	7079075	2.3	63.4	26.9	96	0.4	48.2	17.4	537	3.32	19.8	31.4
L-C15	517299	7079125	1	29.8	8.4	52	0.2	20.3	5.1	144	1.47	7.6	6.6
L-C17	517300	7079225	1.2	26.4	14.2	63	<0.1	24.6	7.8	155	2.48	9.9	1.7
L-C18	517300	7079275	2.9	35.9	21.3	80	0.2	27.3	8.7	217	2.63	18.6	26.6
L-C20	517299	7079375	4.4	24.6	18	71	<0.1	29.7	10.2	208	3.13	18	5.1
L-C21	517300	7079425	2	15.5	8.7	45	<0.1	18.6	5.9	129	1.92	9.6	1.2
L-C23	517300	7079525	5.9	15.3	5.1	34	0.1	13.6	3.6	69	1.2	7.3	11.1
L-C24	517299	7079585	3.3	26.2	11.1	75	<0.1	23.3	8	186	2.16	12.9	4
L-C26	517300	7079675	1.5	21	15.1	67	0.1	25.3	8.5	159	2.72	12.9	0.5
L-C27	517291	7079725	4	14.4	11	48	0.2	15.7	6.9	140	1.83	7.9	10.8
L-C29	517295	7079825	2.2	33.4	15.1	73	0.2	30.4	10.1	205	2.67	13.8	8.5
L-C30	517299	7079875	3.2	24.9	15.1	66	0.2	24.3	9.4	275	2.15	13.6	7.9
L-C32	517299	7079975	1.5	25.7	13.8	73	<0.1	25.1	8.1	162	2.59	12.7	1.3
L-C33	517300	7080025	1.2	31.5	12.7	51	<0.1	22.7	7.4	171	2.77	13.8	3.9
L-C35	517300	7080125	1.2	13.7	8.7	43	0.1	12	3.8	123	1.57	6.6	1.7
L-C36	517294	7080169	0.7	9.6	8.6	15	0.3	5.9	1.6	31	0.65	2.6	0.8
L-C38	517300	7080275	4	10.8	10.1	35	<0.1	15.5	4.8	97	2.16	11.2	1.9
L-C39	517300	7080325	3.3	8.2	13.9	63	0.2	11.4	11.2	726	3.26	4.1	1.3
L-C41	517297	7080427	2.2	45	18.7	60	<0.1	34.5	15.2	196	3.02	16.5	11
L-C42	517300	7080484	1.1	4.3	8.2	23	0.2	5.8	2.9	82	1.55	6.7	0.3
L-C44	517300	7080575	3.1	20.1	15.7	16	0.5	14.8	9.4	260	1.46	4.8	74.4
L-C45	517300	7080625	0.9	11.4	10.8	39	0.2	14.5	7	456	1.81	6.2	0.7

Waypoint	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)
L-B23	0.9	4.4	9	0.1	0.3	0.6	50	0.09	0.025	13	26	0.39	165
L-B24	0.7	2.8	14	<0.1	0.2	0.2	25	0.24	0.027	13	19	0.33	145
L-B26	1.5	3.4	28	0.2	0.3	0.4	32	0.63	0.053	18	20	0.44	219
L-B27	0.7	4.1	7	0.1	0.4	0.2	33	0.06	0.016	12	23	0.36	248
L-B29	1.4	6.8	22	0.3	0.3	0.6	56	0.37	0.032	14	27	0.41	229
L-B30	<0.5	0.5	4	<0.1	<0.1	0.1	17	0.05	0.012	13	7	0.03	57
L-B32	1.7	5.2	7	0.2	0.5	0.4	38	0.06	0.026	13	27	0.41	140
L-B33	<0.5	4	7	0.1	0.4	0.2	48	0.06	0.025	12	25	0.41	170
L-B35	1.6	3.7	12	0.1	0.5	0.2	29	0.14	0.035	12	19	0.35	225
L-B36	1.5	2.5	14	0.1	0.7	0.3	37	0.16	0.042	14	22	0.37	329
L-B38	0.8	4	6	<0.1	0.4	0.2	46	0.05	0.031	14	21	0.24	212
L-B39	0.6	3.3	4	<0.1	0.7	0.2	73	0.04	0.04	12	22	0.45	155
L-B41	2.7	3.5	39	0.1	0.9	0.7	44	0.76	0.084	32	33	0.5	668
L-B44	2.1	1.9	49	0.8	0.8	0.4	36	0.72	0.072	9	40	0.2	940
L-C02	2.2	4.6	21	<0.1	0.4	0.5	31	0.26	0.066	22	25	0.44	321
L-C03	1.9	6.6	28	0.3	0.4	0.3	34	0.44	0.06	18	29	0.57	503
L-C05	0.8	1.4	9	<0.1	0.4	0.5	51	0.09	0.115	13	39	0.71	106
L-C06	2.3	11.9	22	0.3	0.3	3.4	73	0.27	0.07	27	43	1.03	157
L-C08	4	1.9	22	0.4	0.5	2	27	0.15	0.179	14	76	0.38	157
L-C09	0.6	10.6	23	0.3	0.3	1	81	0.3	0.094	20	38	0.91	183
L-C11	3.2	7.9	8	0.1	0.4	0.5	48	0.07	0.019	19	32	0.5	239
L-C12	4.8	10.3	17	0.5	0.4	1.5	61	0.22	0.059	22	42	0.92	222
L-C14	2.3	9.2	36	0.2	0.5	1.1	44	0.61	0.054	38	34	0.65	458
L-C15	1	2.1	21	0.3	0.3	0.2	21	0.33	0.036	17	15	0.29	318
L-C17	8.8	5.2	5	<0.1	0.3	0.2	27	0.05	0.013	12	25	0.41	175
L-C18	10.3	5.1	23	0.2	0.5	0.6	40	0.52	0.028	21	25	0.43	208
L-C20	1.4	4.3	11	<0.1	0.6	0.3	51	0.15	0.024	13	33	0.53	192
L-C21	<0.5	1	5	<0.1	0.3	0.2	40	0.05	0.022	8	21	0.37	157
L-C23	<0.5	1.2	16	<0.1	0.4	0.2	23	0.3	0.032	12	16	0.19	138
L-C24	0.9	3.7	11	0.1	0.4	0.3	42	0.16	0.025	11	27	0.46	151
L-C26	<0.5	3.7	6	0.2	0.7	0.3	43	0.04	0.036	8	28	0.35	175
L-C27	<0.5	4.4	19	<0.1	0.3	0.5	35	0.28	0.026	11	21	0.36	190
L-C29	0.5	4.3	14	0.1	0.6	0.3	44	0.16	0.04	14	31	0.56	264
L-C30	0.7	3.2	14	0.3	0.5	0.3	41	0.2	0.048	11	28	0.47	228
L-C32	1.2	5.8	7	<0.1	0.7	0.2	45	0.04	0.012	14	28	0.38	360
L-C33	1.7	6.3	5	<0.1	0.8	0.2	41	0.03	0.018	15	26	0.34	136
L-C35	<0.5	3.3	5	<0.1	0.4	0.3	23	0.05	0.02	10	11	0.2	109
L-C36	<0.5	0.3	6	<0.1	0.1	0.2	22	0.05	0.016	10	10	0.1	130
L-C38	<0.5	2.7	6	<0.1	0.5	0.3	51	0.07	0.017	10	20	0.26	115
L-C39	<0.5	3.2	11	0.1	0.2	0.2	87	0.15	0.047	8	26	0.47	243
L-C41	1.5	8.8	8	0.1	0.9	0.3	45	0.06	0.032	14	30	0.43	227
L-C42	<0.5	2.2	5	<0.1	0.2	0.2	64	0.04	0.016	9	14	0.28	49
L-C44	<0.5	0.9	68	0.5	0.5	0.2	11	1.23	0.155	50	11	0.09	735
L-C45	<0.5	2.9	16	0.2	0.3	0.3	41	0.22	0.017	11	16	0.17	478

Waypoint	Ti (%)	Bi (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Hg (ppm)	Sc (ppm)	Ti (ppm)	S (%)	Ga (ppm)	Se (ppm)	Te (ppm)
L-B23	0.029	<20	1.64	0.006	0.06	0.2	0.02	2.1	0.3	<0.05	6	<0.5	<0.2
L-B24	0.037	<20	0.97	0.009	0.06	0.2	0.03	1.5	0.2	<0.05	4	<0.5	<0.2
L-B26	0.046	<20	1.18	0.016	0.1	0.8	0.04	2	0.2	<0.05	4	<0.5	0.2
L-B27	0.028	<20	1.27	0.004	0.05	0.2	0.02	1.7	0.1	<0.05	4	<0.5	<0.2
L-B29	0.059	<20	1.19	0.009	0.06	0.1	0.02	1.9	0.2	<0.05	5	<0.5	<0.2
L-B30	0.009	<20	0.4	0.003	0.02	<0.1	0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
L-B32	0.039	<20	1.89	0.005	0.07	0.2	0.03	2.2	0.2	<0.05	5	<0.5	<0.2
L-B33	0.039	<20	1.64	0.004	0.05	0.2	0.03	2	0.2	<0.05	6	<0.5	<0.2
L-B35	0.025	<20	1.18	0.007	0.05	0.2	0.03	1.7	0.1	<0.05	3	<0.5	<0.2
L-B36	0.026	<20	1.28	0.007	0.04	0.1	0.05	1.6	0.1	<0.05	4	<0.5	<0.2
L-B38	0.02	<20	1.29	0.004	0.03	0.2	0.03	1.9	0.1	<0.05	5	<0.5	<0.2
L-B39	0.076	<20	1.45	0.004	0.03	0.2	<0.01	2	0.2	<0.05	8	<0.5	<0.2
L-B41	0.019	<20	2.01	0.011	0.09	0.2	0.1	3.4	0.3	<0.05	6	0.8	<0.2
L-B44	0.005	<20	0.99	0.005	0.06	<0.1	0.12	2.1	0.1	<0.05	3	0.6	<0.2
L-C02	0.041	<20	1.41	0.01	0.1	0.4	0.07	2.5	0.3	<0.05	5	0.6	<0.2
L-C03	0.062	<20	1.42	0.021	0.21	0.3	0.04	2.5	0.3	<0.05	4	<0.5	<0.2
L-C05	0.131	<20	2.24	0.017	0.4	0.1	0.12	2.3	0.4	0.15	9	0.9	<0.2
L-C06	0.164	<20	2.36	0.028	0.35	1.8	0.03	3.5	0.7	<0.05	9	<0.5	<0.2
L-C08	0.072	<20	1.54	0.021	0.28	0.2	0.21	1.6	0.3	0.12	6	0.9	<0.2
L-C09	0.207	<20	2.5	0.045	0.5	0.2	0.08	3.1	0.6	<0.05	12	0.9	<0.2
L-C11	0.041	<20	2.12	0.005	0.08	0.2	0.05	2.5	0.2	<0.05	5	0.5	<0.2
L-C12	0.09	<20	2.37	0.014	0.14	1.1	0.03	3.9	0.4	<0.05	8	<0.5	<0.2
L-C14	0.051	<20	1.96	0.017	0.18	0.2	0.06	3.2	0.4	<0.05	6	<0.5	<0.2
L-C15	0.024	<20	0.78	0.009	0.05	0.4	0.02	1.1	0.2	<0.05	3	<0.5	<0.2
L-C17	0.038	<20	1.41	0.005	0.06	0.2	0.02	1.5	0.2	<0.05	4	<0.5	<0.2
L-C18	0.035	<20	1.48	0.016	0.08	0.4	0.03	2.1	0.2	<0.05	5	<0.5	<0.2
L-C20	0.052	<20	1.6	0.007	0.08	0.1	0.02	2.3	0.2	<0.05	6	<0.5	<0.2
L-C21	0.037	<20	1.1	0.004	0.05	0.2	0.02	1.4	0.1	<0.05	5	<0.5	<0.2
L-C23	0.014	<20	0.68	0.009	0.05	0.2	0.03	1	0.2	<0.05	3	<0.5	<0.2
L-C24	0.043	<20	1.27	0.009	0.08	0.2	<0.01	2	0.2	<0.05	5	<0.5	<0.2
L-C26	0.02	<20	1.82	0.004	0.04	0.2	0.04	1.9	0.1	<0.05	4	0.6	<0.2
L-C27	0.03	<20	1.14	0.01	0.07	0.2	0.04	1.8	0.1	<0.05	5	<0.5	<0.2
L-C29	0.049	<20	1.64	0.01	0.07	0.2	0.03	2.7	0.2	<0.05	5	<0.5	<0.2
L-C30	0.05	<20	1.39	0.011	0.07	1.1	0.02	2.1	0.2	<0.05	5	<0.5	<0.2
L-C32	0.022	<20	1.54	0.005	0.05	0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
L-C33	0.025	<20	1.4	0.004	0.03	0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
L-C35	0.015	<20	0.69	0.005	0.04	0.1	0.03	1	<0.1	<0.05	3	<0.5	<0.2
L-C36	0.01	<20	0.72	0.005	0.04	<0.1	0.01	0.7	0.1	<0.05	4	<0.5	<0.2
L-C38	0.035	<20	0.94	0.007	0.03	<0.1	0.02	1.2	0.1	<0.05	5	<0.5	<0.2
L-C39	0.214	<20	2.03	0.016	0.05	<0.1	0.01	1.8	0.2	<0.05	17	<0.5	<0.2
L-C41	0.034	<20	2.14	0.007	0.04	0.3	0.24	2.7	0.2	<0.05	5	<0.5	<0.2
L-C42	0.1	<20	0.89	0.009	0.03	0.2	0.02	1	<0.1	<0.05	10	<0.5	<0.2
L-C44	0.014	<20	1.2	0.024	0.03	0.1	0.12	1.1	0.1	0.18	2	1.6	<0.2
L-C45	0.012	<20	1.02	0.006	0.03	<0.1	0.01	1.3	0.1	<0.05	4	<0.5	<0.2

Waypoint	Easting_ NAD83	Northing_ NAD83	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)
L-D24	517450	7079575	3	31.6	16.6	86	0.3	30.8	12.7	202	3.12	21.7	5.5
L-D26	517450	7079675	2.5	22.9	16.4	64	0.2	24.8	10.9	204	2.68	12.9	8.3
L-D27	517463	7079725	3	18.9	16.6	66	0.1	27.4	13.4	202	3.17	16.8	2.7
L-D29	517449	7079820	2.2	15.8	13.9	43	0.1	16.5	7.5	128	2.75	11.1	1.4
L-D29	517450	7079825	2.1	40.7	94.7	187	0.5	44.9	19.3	283	3.19	22.8	9.6
L-D30	517436	7079881	1.3	37.1	19.8	92	0.2	40	16.7	522	2.83	16.2	1.8
L-D33	517455	7079970	4.9	21.2	32.3	61	0.6	18.2	7.2	326	2.18	10.7	23.1
L-D35	517443	7080129	2.9	58.3	24.5	84	0.4	46.3	21	293	3.47	13.2	19
L-D36	517454	7080178	2.1	41.6	20.1	53	<0.1	31.9	11.6	150	2.94	14.3	4.2
L-D38	517450	7080284	2.2	17.2	14.8	47	<0.1	15.4	5.4	128	3.11	13.8	1
L-D39	517451	7080323	3.2	117.2	11.3	50	0.6	15.4	15.8	337	4.72	9.4	6.5
L-D41	517447	7080428	1.3	7.7	22.3	39	<0.1	8.3	2.9	97	1.3	8.2	3.1
L-D42	517435	7080477	1.1	10.1	10.8	33	<0.1	9.9	4.1	87	2.07	7	0.8
L-D44	517447	7080573	1.1	21.8	10.9	56	<0.1	20.3	9	203	2.19	9.6	4.2
L-D45	517453	7080629	0.8	24.3	18.9	96	0.2	20.9	10.5	228	2.18	10.8	19.7
L-E01	517600	7078425	1.3	28	11.5	48	<0.1	23.3	7.5	134	2.21	7.8	0.9
L-E02	517599	7078474	1.5	46.8	16	87	0.1	42.9	14.2	274	2.56	10.5	1
L-E03	517604	7078507	1.9	24.8	15.9	49	0.2	15.6	5.7	189	2.35	9.4	1.1
L-E04	517603	7078569	1.7	33.4	16.3	52	0.1	21.4	6.8	166	2.58	12.1	1.5
L-E05	517603	7078626	1.2	38.6	20.5	61	<0.1	26.5	7.7	177	2.39	11.3	1.6
L-E06	517604	7078661	1.7	22.2	14	36	0.2	13.8	4.1	118	2.11	11.5	1.4
L-E07	517607	7078711	1.7	26.5	16.3	49	0.1	18.7	5.7	165	2.25	9.1	1.4
L-E08	517598	7078759	1.3	32	12.6	45	0.1	21.6	6.4	154	2.02	8.5	1.6
L-E09	517611	7078826	1.7	31.6	18.8	94	0.3	35	13	317	3.63	9.2	1.2
L-E10	517609	7078865	1.7	22.5	17	75	0.2	20	8.9	202	3.12	13.1	1
L-E11	517606	7078902	1.1	29.6	14.8	73	0.1	36.3	15.7	222	3.02	11.8	1.1
L-E12	517601	7078971	1.4	29.2	18.5	96	0.4	29.4	15.3	380	2.73	11.3	1.4
L-E13	517601	7079004	1.8	44.5	18.8	107	0.1	56.5	23.7	364	3.54	14.6	3.1
L-E14	517607	7079059	2	51.1	14.3	68	0.2	26.5	9.6	214	3.65	27.7	3
L-E15	517599	7079118	1.3	44	16.9	119	0.2	30.6	14.9	1596	2.68	7.1	1.5
L-E16	517601	7079171	1.2	59	23.1	119	0.1	59.4	28.1	406	3.54	16.1	4.3
L-E17	517599	7079215	1.8	33.6	18.1	96	0.2	37.3	26.6	987	1.82	9.6	3.3
L-E18	517601	7079249	1.2	30.4	30.3	97	<0.1	39.8	12.5	245	3.6	8.5	0.9
L-E19	517604	7079321	1.3	113.9	10.4	69	0.1	40.8	16.1	160	4.22	11.1	4.1
L-E20	517604	7079364	1.6	64.5	10.5	65	0.5	51	20.8	154	3.31	14.2	2.2
L-E22	517613	7079475	1.2	28.3	9.9	84	0.1	17.9	8.2	863	2.37	6.8	3.1
L-E23	517591	7079508	2.2	10.9	12.5	36	<0.1	10.8	4	112	2.02	9.1	0.6
L-E24	517606	7079562	1.5	23.4	17.6	72	0.1	24.9	8.6	188	3.93	16.6	0.6
L-E25	517601	7079614	1.5	9.7	15.5	64	0.2	12.7	5.1	164	3.1	8.5	0.6
L-E26	517604	7079667	1.2	16.4	8.6	23	<0.1	7.9	2.2	64	1.1	9.9	0.5
L-E27	517604	7079716	1.3	26.4	12.7	40	0.2	14.5	4.2	132	1.62	6.7	2.6
L-E28	517600	7079758	1.9	35.3	15.8	61	<0.1	22.3	7.6	174	5.49	9.5	0.9
L-E29	517595	7079808	1.4	48.9	27.7	33	0.1	23.1	4.8	132	1.44	4.3	6.9

Waypoint	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)
L-D24	1	3.3	14	0.2	0.6	0.8	65	0.26	0.032	17	31	0.37	135
L-D26	<0.5	3.9	13	<0.1	0.6	0.5	50	0.17	0.028	14	26	0.41	263
L-D27	6.7	4	8	<0.1	0.6	0.5	72	0.11	0.019	13	33	0.38	193
L-D29	<0.5	3.5	8	<0.1	0.4	0.3	58	0.07	0.021	13	24	0.28	249
L-D29	<0.5	8.5	14	0.7	0.7	0.5	49	0.14	0.023	19	36	0.56	262
L-D30	<0.5	6.5	35	0.5	0.6	0.6	44	0.76	0.027	18	34	0.58	387
L-D33	2	5.8	15	<0.1	0.3	4.8	49	0.22	0.023	15	24	0.28	252
L-D35	<0.5	5.6	16	0.3	0.5	0.5	65	0.17	0.041	27	36	0.38	369
L-D36	<0.5	5.3	6	<0.1	0.5	0.3	37	0.06	0.043	11	29	0.41	182
L-D38	<0.5	3.4	7	<0.1	0.6	0.3	66	0.05	0.034	12	26	0.28	167
L-D39	1.9	4.6	8	0.2	0.4	3.8	46	0.12	0.055	11	21	0.2	203
L-D41	<0.5	3.1	14	0.1	0.2	1.1	28	0.15	0.022	8	3	0.19	89
L-D42	<0.5	2.5	5	<0.1	0.4	0.3	49	0.05	0.012	10	16	0.19	82
L-D44	<0.5	5.3	11	<0.1	0.4	0.2	37	0.1	0.03	18	22	0.37	309
L-D45	0.5	7.6	20	<0.1	0.4	1.2	36	0.21	0.06	18	24	0.51	336
L-E01	3.4	5.2	7	0.1	0.3	0.2	38	0.05	0.024	15	25	0.36	160
L-E02	3.9	7.1	12	0.3	0.5	0.3	35	0.09	0.044	15	26	0.51	262
L-E03	<0.5	0.9	9	0.3	0.4	0.5	48	0.07	0.049	14	20	0.26	150
L-E04	2.4	6	10	<0.1	0.6	0.4	43	0.07	0.025	17	25	0.48	118
L-E05	2.5	4.9	10	<0.1	0.6	0.3	34	0.05	0.033	17	26	0.42	253
L-E06	1.2	3.2	8	0.1	0.5	0.3	45	0.04	0.031	16	24	0.29	95
L-E07	0.5	4.8	16	<0.1	0.3	0.4	35	0.08	0.037	21	23	0.41	112
L-E08	4.4	5.9	11	0.1	0.4	0.3	30	0.07	0.021	20	20	0.35	181
L-E09	2.1	6.1	16	0.2	0.4	0.4	40	0.09	0.047	17	27	0.58	146
L-E10	1.9	5.7	12	0.1	0.6	0.4	46	0.05	0.034	15	27	0.42	127
L-E11	2.5	6.8	13	0.1	0.6	0.3	39	0.13	0.038	17	26	0.52	207
L-E12	1.6	4.4	20	0.2	0.5	0.3	36	0.17	0.053	20	25	0.5	264
L-E13	2.5	13.9	25	0.1	0.4	0.4	35	0.24	0.046	29	32	0.63	212
L-E14	3.4	14.2	15	<0.1	0.4	0.6	36	0.05	0.04	40	29	0.63	96
L-E15	1.3	2.3	15	0.3	0.3	0.4	33	0.2	0.132	18	30	0.58	159
L-E16	1	19.6	76	0.1	0.3	0.4	27	0.35	0.061	44	25	0.64	120
L-E17	1.4	6.2	51	0.8	0.3	0.5	14	0.97	0.069	28	24	0.45	128
L-E18	<0.5	7.2	33	0.1	0.3	0.5	25	0.21	0.031	20	26	0.69	142
L-E19	2.5	22.8	17	0.1	0.3	0.4	31	0.07	0.04	29	35	0.74	198
L-E20	3.1	12.4	14	0.1	0.8	0.5	27	0.12	0.082	24	21	0.32	140
L-E22	1.4	0.8	22	0.2	0.3	1	29	0.3	0.112	14	22	0.46	255
L-E23	1.5	4.3	8	<0.1	0.3	0.9	50	0.08	0.014	13	20	0.36	93
L-E24	0.9	5	8	0.1	0.9	0.3	54	0.05	0.029	12	32	0.46	150
L-E25	0.7	4	5	0.1	0.3	0.4	63	0.04	0.024	13	21	0.24	121
L-E26	1	1.6	7	<0.1	0.3	0.2	30	0.07	0.023	11	13	0.16	44
L-E27	1.5	2.3	20	<0.1	0.2	0.4	30	0.13	0.03	15	20	0.33	109
L-E28	1.5	12.1	23	<0.1	0.6	0.5	39	0.05	0.043	20	34	0.7	118
L-E29	<0.5	1.8	22	0.4	0.2	0.2	13	0.31	0.056	30	22	0.29	186



Waypoint	Ti (%)	Bi (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Hg (ppm)	Sc (ppm)	Ti (ppm)	S (%)	Ga (ppm)	Se (ppm)	Te (ppm)
L-D24	0.057	<20	1.54	0.01	0.09	0.6	0.03	2.2	0.2	<0.05	8	<0.5	<0.2
L-D26	0.025	<20	1.43	0.007	0.06	0.7	0.02	2	0.2	<0.05	5	<0.5	<0.2
L-D27	0.031	<20	1.96	0.006	0.06	0.2	0.02	2.4	0.2	<0.05	6	<0.5	<0.2
L-D29	0.016	<20	1.53	0.005	0.03	0.1	<0.01	1.8	0.1	<0.05	5	<0.5	<0.2
L-D29	0.063	<20	2.13	0.011	0.16	2.1	<0.01	3.6	0.3	<0.05	6	<0.5	<0.2
L-D30	0.059	<20	1.81	0.018	0.36	0.5	<0.01	3.6	0.2	<0.05	5	<0.5	<0.2
L-D33	0.02	<20	1.76	0.006	0.06	1.1	0.02	2	0.2	<0.05	6	<0.5	<0.2
L-D35	0.033	<20	2.2	0.011	0.09	0.3	0.04	2.9	0.2	<0.05	7	<0.5	<0.2
L-D36	0.036	<20	2.11	0.006	0.06	0.3	0.03	2.2	0.2	<0.05	5	<0.5	<0.2
L-D38	0.023	<20	1.54	0.004	0.03	0.1	0.01	1.5	0.1	<0.05	6	0.5	<0.2
L-D39	0.019	<20	1.44	0.007	0.03	98.5	<0.01	1.8	0.1	<0.05	6	1.2	0.2
L-D41	0.003	<20	0.88	0.006	0.04	0.2	<0.01	0.9	0.2	<0.05	4	<0.5	0.2
L-D42	0.022	<20	1.05	0.004	0.03	0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
L-D44	0.025	<20	1.19	0.007	0.04	0.2	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
L-D45	0.038	<20	1.45	0.013	0.07	0.2	0.07	2.6	0.2	<0.05	4	0.6	<0.2
L-E01	0.03	<20	1.44	0.006	0.06	0.1	0.02	1.8	0.2	<0.05	4	<0.5	<0.2
L-E02	0.035	<20	1.63	0.009	0.09	0.3	0.22	2.1	0.3	<0.05	4	0.9	<0.2
L-E03	0.027	<20	1.08	0.006	0.06	0.2	0.01	1.2	0.2	<0.05	5	0.5	<0.2
L-E04	0.038	<20	1.52	0.007	0.06	0.5	0.02	1.7	0.3	0.1	5	0.7	<0.2
L-E05	0.036	<20	1.39	0.006	0.06	0.2	0.01	1.6	0.3	0.06	4	0.7	<0.2
L-E06	0.033	<20	1.04	0.005	0.05	0.5	0.02	1.2	0.2	0.06	4	0.6	<0.2
L-E07	0.055	<20	1.31	0.005	0.11	0.1	0.03	1.4	0.2	<0.05	6	<0.5	<0.2
L-E08	0.036	<20	1.08	0.006	0.06	0.2	0.04	1.6	0.2	<0.05	4	<0.5	<0.2
L-E09	0.075	<20	1.79	0.009	0.13	2	0.04	1.6	0.3	<0.05	6	0.6	<0.2
L-E10	0.068	<20	1.6	0.008	0.13	0.3	0.03	1.9	0.2	0.05	6	<0.5	<0.2
L-E11	0.058	<20	1.71	0.008	0.11	0.3	0.02	2.1	0.2	<0.05	5	0.6	<0.2
L-E12	0.048	<20	1.5	0.008	0.13	0.1	0.04	1.7	0.2	<0.05	5	0.5	<0.2
L-E13	0.1	<20	2.43	0.013	0.31	0.1	0.04	2.5	0.4	<0.05	7	0.5	<0.2
L-E14	0.078	<20	1.98	0.009	0.18	0.2	0.03	1.9	0.4	0.08	6	0.5	<0.2
L-E15	0.088	<20	2.12	0.018	0.21	<0.1	0.12	1.7	0.3	0.07	7	<0.5	<0.2
L-E16	0.105	<20	2.4	0.013	0.52	0.1	0.04	2.2	0.5	<0.05	6	0.7	<0.2
L-E17	0.067	<20	1.32	0.025	0.27	0.7	0.35	1.3	0.3	0.13	4	<0.5	<0.2
L-E18	0.109	<20	2.4	0.008	0.3	<0.1	0.03	2.2	0.5	<0.05	7	<0.5	<0.2
L-E19	0.13	<20	2.67	0.016	0.36	0.3	0.03	2.5	0.4	0.17	5	1	<0.2
L-E20	0.047	<20	2.29	0.005	0.14	0.4	0.07	1.5	0.3	0.09	4	1.1	<0.2
L-E22	0.067	<20	1.26	0.017	0.22	0.4	0.31	1.4	0.4	0.15	5	0.6	<0.2
L-E23	0.052	<20	1.23	0.005	0.07	0.3	<0.01	1.3	0.2	<0.05	6	<0.5	<0.2
L-E24	0.029	<20	2.03	0.005	0.06	0.2	0.02	2.3	0.1	<0.05	5	0.9	<0.2
L-E25	0.026	<20	1.48	0.004	0.03	<0.1	0.01	1.4	0.1	0.1	8	<0.5	<0.2
L-E26	0.023	<20	0.5	0.005	0.05	0.1	0.01	0.7	0.1	<0.05	4	<0.5	<0.2
L-E27	0.037	<20	1	0.008	0.12	<0.1	0.03	1.2	0.2	0.07	5	<0.5	<0.2
L-E28	0.086	<20	2.3	0.009	0.25	0.1	0.02	1.7	0.3	0.12	7	0.5	<0.2
L-E29	0.04	<20	0.97	0.021	0.2	<0.1	0.04	1.3	0.2	0.1	3	0.8	<0.2

Waypoint	Easting_ NAD83	Northing_ NAD83	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)
L-E30	517600	7079862	1.4	18	24.5	67	0.2	35.5	19.2	570	3.91	18.5	2.3
L-E31	517601	7079915	0.5	37.1	18.5	33	0.5	16.5	3.7	90	1.49	4.7	6
L-E32	517601	7079964	0.7	21.6	10.2	19	0.4	15.3	5.1	114	1.68	3.9	3.6
L-E33	517600	7080014	0.9	19.5	12	66	0.2	23.2	7.2	180	2.36	9.5	2
L-E34	517599	7080059	0.7	21.8	11.5	70	0.1	22.8	8.2	233	2.21	5.8	0.9
L-E35	517601	7080112	0.8	18.1	13.5	91	<0.1	26.2	21.2	590	2.76	6.9	1.3
L-E36	517597	7080166	0.9	18.6	17	81	0.1	24.8	32.9	1268	2.93	8.7	1.6
L-E37	517601	7080215	0.6	20	13.5	78	0.1	21.5	6.8	191	1.98	5.6	1.6
L-E38	517599	7080263	0.7	25.3	13.9	83	0.1	26.1	11.2	730	2.25	7	1.4
L-E39	517603	7080310	0.8	38.6	14.5	101	0.2	32.1	8.8	554	2.2	7.9	1.7
L-E40	517599	7080370	0.5	21.8	13.8	62	0.1	23.1	9.7	414	2.15	7.8	1.2
L-E41	517600	7080419	0.7	20.3	14.2	72	<0.1	20.6	9.8	280	1.97	7.8	0.5
L-E42	517599	7080462	0.5	15.7	11.5	69	0.1	18	7.9	470	1.75	7.1	0.7
L-E43	517603	7080514	0.9	25.1	15.3	83	0.1	24.8	9.8	414	2.15	8.5	0.9
L-E44	517600	7080572	0.6	21.2	13.2	78	0.1	22.3	9	398	1.88	7.6	0.9
L-E45	517595	7080616	0.8	22.4	12.4	79	0.1	21.5	9	439	1.91	6.9	1.1
L-E46	517600	7080675	0.5	22	14.5	94	0.1	24.1	11.3	316	2.04	7.9	2.7
L-F01	517750	7078425	1.7	10	12.4	41	0.4	11.3	4.7	126	2.93	11.9	0.5
L-F02	517749	7078472	1.4	8.5	10.8	30	<0.1	8.5	3.1	83	1.95	10.1	0.6
L-F03	517755	7078516	1.6	48.1	8.8	56	0.1	20.1	6.7	151	2.36	7.1	1.1
L-F04	517751	7078567	1.6	74.4	14	77	0.2	64.1	16.1	174	2.76	11.8	2.8
L-F05	517750	7078614	1.2	15.8	10.4	39	<0.1	13.9	3.8	95	1.96	6.7	0.6
L-F06	517750	7078665	1.1	18.4	10.1	50	0.1	16.5	4.5	133	1.91	7.3	0.6
L-F07	517751	7078714	0.9	25.6	9.8	53	<0.1	22	8.4	207	1.85	7.2	0.8
L-F08	517751	7078763	1.9	27.4	20	56	0.1	26.5	7.3	164	3.36	16	0.6
L-F09	517750	7078817	1.6	31.8	14.4	61	0.2	27	12.7	210	2.62	13.6	1.3
L-F10	517750	7078868	1.3	53	18.9	80	0.2	60.4	18	207	2.54	22.4	1
L-F11	517750	7078919	1	4.7	12.2	25	<0.1	5.4	2.3	67	1.58	6.9	0.4
L-F12	517750	7078969	1.3	17.8	15.3	51	0.2	20	8	190	2.77	10.5	0.7
L-F13	517750	7079025	1.2	38.8	17.7	84	<0.1	36	10	163	2.34	9.2	0.4
L-F14	517750	7079075	0.6	5	4.1	9	0.1	3.4	0.8	20	0.42	2.5	0.3
L-F15	517751	7079125	1.5	28.4	13.3	72	0.1	31.3	11.6	219	3.37	14	0.6
L-F16	517750	7079175	1.4	25.6	14.4	41	0.1	21.3	9.8	111	2.27	12.1	1.1
L-F17	517750	7079225	1.6	11	8.5	35	0.2	9.7	3.2	110	1.56	11.3	0.4
L-F18	517751	7079275	1	11.7	10.7	55	<0.1	15.2	5.7	141	2.25	11	0.4
L-F19	517751	7079325	0.5	38.1	4.8	74	<0.1	11.5	4.3	117	2.85	2.1	0.9
L-F20	517750	7079375	1.6	15.9	10.5	38	<0.1	14	4.9	104	2.1	10.6	0.6
L-F21	517750	7079425	0.7	25.7	12.1	77	<0.1	29.1	10.9	245	1.92	9.4	0.7
L-F22	517750	7079475	0.6	45.2	16.1	18	0.9	16.7	3.1	65	1.18	3.1	3.8
L-F23	517750	7079525	1.4	6.6	9.1	20	<0.1	9.1	2.6	107	1.13	6.5	0.3
L-F24	517750	7079575	0.9	37.5	12.1	69	<0.1	35.2	14.8	190	2.56	12.2	0.8
L-F25	517750	7079625	1.6	29.5	15.5	62	0.1	24.8	8.5	213	3	13.1	0.6
L-F26B	517760	7079685	1.2	39	17.2	65	0.2	37.5	16	185	2.76	14.9	0.7
L-F27	517751	7079725	1.1	46.2	12	88	0.2	38.8	17.4	312	2.6	21.2	2.2

Waypoint	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)
L-E30	3.5	10.8	36	0.2	0.4	0.4	68	0.34	0.048	40	54	1.67	123
L-E31	3	0.6	22	0.2	0.3	0.3	13	0.41	0.114	23	20	0.23	207
L-E32	1.6	0.7	34	0.3	0.2	0.1	<2	0.76	0.11	16	8	0.05	291
L-E33	2.4	3.4	17	0.2	0.3	0.2	30	0.22	0.057	14	28	0.51	200
L-E34	2.2	5.6	17	<0.1	0.4	0.2	24	0.16	0.048	15	21	0.46	253
L-E35	1.6	5.5	16	0.1	0.4	0.3	28	0.14	0.046	16	25	0.5	240
L-E36	2.2	5.6	18	0.1	0.5	0.3	28	0.18	0.052	18	23	0.43	281
L-E37	2.3	4.3	16	0.1	0.4	0.2	25	0.16	0.047	18	20	0.39	324
L-E38	1.6	4.7	20	<0.1	0.6	0.2	23	0.26	0.054	17	19	0.38	405
L-E39	2.1	4.8	24	0.4	0.6	0.2	24	0.28	0.048	18	9	0.39	561
L-E40	2.2	4.3	30	0.2	0.5	0.2	20	0.45	0.034	13	17	0.38	454
L-E41	1.1	5.6	19	0.2	0.4	0.2	22	0.29	0.039	13	18	0.36	253
L-E42	1.5	3.4	34	0.2	0.4	0.2	22	0.65	0.042	11	15	0.33	368
L-E43	3.4	4.3	34	0.3	0.5	0.2	26	0.63	0.059	12	19	0.39	458
L-E44	1	5.2	22	0.3	0.5	0.2	23	0.36	0.045	14	15	0.32	438
L-E45	1.1	2.8	36	0.4	0.4	0.2	26	0.69	0.059	12	18	0.38	379
L-E46	2	5.4	34	0.3	0.4	0.3	27	0.71	0.055	14	20	0.4	277
L-F01	2.4	4.4	7	<0.1	0.5	0.3	61	0.04	0.034	14	26	0.32	125
L-F02	1.2	4.3	7	0.1	0.4	0.3	61	0.05	0.017	15	22	0.25	135
L-F03	3	6.7	10	0.1	0.3	0.2	47	0.05	0.034	17	30	0.52	180
L-F04	2.5	7.3	14	0.2	0.6	0.3	53	0.05	0.042	21	30	0.44	222
L-F05	<0.5	1.3	6	0.1	0.3	0.2	36	0.03	0.029	13	19	0.28	112
L-F06	0.9	4	9	<0.1	0.3	0.2	31	0.09	0.042	14	21	0.37	114
L-F07	1.3	5.2	9	0.1	0.4	0.2	31	0.08	0.039	14	21	0.4	202
L-F08	4.3	5	8	0.2	0.7	0.3	50	0.06	0.041	13	30	0.36	193
L-F09	2.8	6.3	8	0.2	0.7	0.3	50	0.06	0.025	15	31	0.44	237
L-F10	2.6	7.1	10	0.2	0.5	0.3	33	0.05	0.029	17	29	0.5	439
L-F11	0.7	3.3	7	<0.1	0.3	0.2	50	0.05	0.015	14	16	0.19	191
L-F12	2.2	4	8	<0.1	0.6	0.2	45	0.06	0.033	12	26	0.42	199
L-F13	1	4.7	8	0.1	0.5	0.2	29	0.06	0.034	12	30	0.45	295
L-F14	1.8	0.2	3	<0.1	<0.1	0.2	16	0.02	0.012	13	8	0.07	42
L-F15	2.2	6	7	0.1	0.5	0.3	38	0.06	0.048	13	32	0.57	112
L-F16	1.6	4.6	7	<0.1	0.5	0.2	48	0.05	0.025	24	20	0.25	142
L-F17	<0.5	1.8	5	<0.1	0.4	0.4	45	0.03	0.039	12	14	0.14	41
L-F18	0.5	3.3	6	<0.1	0.3	0.2	43	0.04	0.02	13	19	0.29	133
L-F19	1.3	11.6	25	<0.1	0.1	0.8	12	0.02	0.033	33	21	0.68	77
L-F20	0.9	3.7	7	0.1	0.5	0.2	50	0.06	0.014	13	18	0.24	135
L-F21	1.3	6	10	0.2	0.5	0.2	21	0.1	0.046	13	19	0.38	176
L-F22	3.9	0.3	26	0.3	0.4	0.2	7	0.56	0.163	20	14	0.1	457
L-F23	<0.5	1.4	5	<0.1	0.2	0.2	41	0.03	0.019	10	17	0.18	87
L-F24	6.5	6.4	7	0.2	0.4	0.2	33	0.04	0.024	12	32	0.58	144
L-F25	2.2	5	14	<0.1	0.5	0.3	49	0.09	0.019	13	30	0.61	119
L-F26B	1.7	7	9	0.1	0.5	0.3	40	0.06	0.04	11	33	0.51	178
L-F27	2.6	8.1	17	0.2	0.3	0.2	31	0.21	0.056	28	27	0.56	182

Waypoint	Ti (%)	Bi (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Hg (ppm)	Sc (ppm)	Ti (ppm)	S (%)	Ga (ppm)	Se (ppm)	Te (ppm)
L-E30	0.14	<20	3.54	0.007	0.12	0.2	0.07	5	0.3	<0.05	12	0.7	<0.2
L-E31	0.02	<20	0.95	0.019	0.05	0.1	0.12	1.1	0.1	0.15	3	1.1	<0.2
L-E32	0.013	<20	0.51	0.026	0.02	<0.1	0.08	1.4	<0.1	0.26	<1	1.1	<0.2
L-E33	0.054	<20	1.43	0.013	0.15	0.1	0.07	2.2	0.3	0.06	5	0.8	<0.2
L-E34	0.039	<20	1.27	0.008	0.17	0.1	0.06	1.9	0.2	0.09	4	<0.5	<0.2
L-E35	0.038	<20	1.5	0.01	0.15	0.1	0.05	2	0.2	<0.05	5	<0.5	<0.2
L-E36	0.032	<20	1.43	0.013	0.13	0.1	0.06	2.2	0.2	0.13	4	0.7	<0.2
L-E37	0.024	<20	1.3	0.011	0.14	0.2	0.07	2	0.2	<0.05	4	<0.5	<0.2
L-E38	0.018	<20	1.2	0.011	0.1	<0.1	0.07	2.1	0.2	<0.05	3	0.6	<0.2
L-E39	0.017	<20	1.26	0.012	0.12	0.5	0.09	2.4	0.1	0.07	3	1.1	<0.2
L-E40	0.016	<20	1	0.012	0.09	0.1	0.04	1.7	0.1	0.07	3	0.9	<0.2
L-E41	0.026	<20	0.96	0.015	0.09	0.1	0.05	1.6	0.1	<0.05	3	<0.5	<0.2
L-E42	0.014	<20	0.91	0.012	0.07	0.1	0.05	1.5	<0.1	<0.05	3	<0.5	<0.2
L-E43	0.022	<20	1.04	0.016	0.08	0.2	0.07	1.9	0.1	<0.05	3	0.6	<0.2
L-E44	0.02	<20	0.91	0.013	0.09	0.2	0.06	1.8	0.1	<0.05	3	0.6	<0.2
L-E45	0.018	<20	1.09	0.014	0.09	0.2	0.07	1.7	0.1	<0.05	3	<0.5	<0.2
L-E46	0.025	<20	1.07	0.017	0.1	0.2	0.08	2.2	0.2	<0.05	3	0.6	<0.2
L-F01	0.037	<20	1.38	0.004	0.05	0.1	0.02	2.2	0.1	<0.05	6	0.6	<0.2
L-F02	0.031	<20	1.24	0.004	0.03	<0.1	0.01	1.8	0.2	<0.05	5	0.5	<0.2
L-F03	0.035	<20	1.41	0.006	0.08	<0.1	0.02	2	0.2	<0.05	4	1.2	<0.2
L-F04	0.036	<20	1.87	0.005	0.07	0.1	0.05	3.2	0.2	<0.05	5	1.1	<0.2
L-F05	0.02	<20	0.98	0.004	0.04	<0.1	0.02	1	0.2	<0.05	4	0.6	<0.2
L-F06	0.033	<20	1.05	0.005	0.05	0.4	0.03	1.3	0.2	<0.05	3	0.8	<0.2
L-F07	0.035	<20	1.1	0.006	0.06	0.2	0.03	1.7	0.2	<0.05	3	0.7	<0.2
L-F08	0.034	<20	1.49	0.006	0.05	0.6	0.02	1.8	0.1	<0.05	5	0.8	<0.2
L-F09	0.036	<20	2	0.007	0.06	0.1	0.05	3	0.2	<0.05	5	0.6	<0.2
L-F10	0.03	<20	1.83	0.009	0.1	0.2	0.05	2.3	0.4	<0.05	4	0.7	<0.2
L-F11	0.024	<20	1.07	0.004	0.03	<0.1	<0.01	1.4	0.2	<0.05	5	<0.5	<0.2
L-F12	0.032	<20	1.77	0.007	0.05	0.2	0.04	2.1	0.1	<0.05	5	0.7	<0.2
L-F13	0.033	<20	1.33	0.006	0.07	0.3	0.02	1.5	0.2	<0.05	4	<0.5	<0.2
L-F14	0.009	<20	0.36	0.004	0.02	<0.1	<0.01	0.3	0.1	<0.05	4	<0.5	<0.2
L-F15	0.054	<20	1.54	0.006	0.1	0.2	0.02	1.9	0.2	<0.05	5	0.5	<0.2
L-F16	0.021	<20	1.66	0.006	0.03	<0.1	0.02	1.8	0.1	<0.05	5	0.7	<0.2
L-F17	0.025	<20	0.55	0.004	0.03	0.1	<0.01	0.8	0.1	<0.05	4	<0.5	<0.2
L-F18	0.025	<20	1.01	0.005	0.04	<0.1	0.01	1.4	0.1	<0.05	5	<0.5	<0.2
L-F19	0.043	<20	1.26	0.01	0.24	<0.1	<0.01	0.9	0.3	0.14	4	0.5	<0.2
L-F20	0.03	<20	0.96	0.004	0.03	0.1	<0.01	1.3	0.1	<0.05	5	<0.5	<0.2
L-F21	0.029	<20	1.01	0.006	0.07	0.2	0.01	1.4	0.2	<0.05	3	0.6	<0.2
L-F22	0.005	<20	0.86	0.025	0.04	<0.1	0.21	0.4	0.2	0.17	2	1.1	<0.2
L-F23	0.049	<20	0.63	0.005	0.08	<0.1	0.01	1	0.1	<0.05	7	<0.5	<0.2
L-F24	0.037	<20	2.05	0.005	0.09	0.1	0.03	2.4	0.2	<0.05	5	<0.5	<0.2
L-F25	0.052	<20	1.63	0.007	0.08	<0.1	0.02	2.1	0.2	<0.05	6	<0.5	<0.2
L-F26B	0.046	<20	2.27	0.01	0.08	0.2	0.05	2.6	0.2	<0.05	5	0.7	<0.2
L-F27	0.052	<20	1.46	0.012	0.17	<0.1	0.04	2	0.3	<0.05	5	<0.5	<0.2

Waypoint	Easting_ NAD83	Northing_ NAD83	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)
L-F28	517750	7079775	0.3	28.7	9.2	67	0.3	31.5	8.2	158	1.74	7.9	2.4
L-F29	517750	7079825	0.8	85.6	22.7	93	0.2	63.5	20.3	240	3.05	13.3	0.8
L-F30	517750	7079875	1	34.7	7.3	50	0.3	26.4	6	100	1.57	6.3	1.6
L-F31	517750	7079924	1	21.9	10.5	64	0.3	25.7	7.2	182	2.16	7.5	0.7
L-F32	517750	7079975	0.8	40.5	9.2	70	0.1	30.5	11.1	236	2.38	9	1.1
L-F33	517751	7080025	0.8	19.2	10.7	60	0.2	24.5	7.1	151	1.94	7.3	0.9
L-F34	517750	7080075	1.3	23	14.8	80	0.3	27.4	14.5	425	2.74	11.4	0.9
L-F35	517751	7080125	1	29.5	12.9	78	0.2	29.7	14.1	390	2.41	10.6	0.9
L-F36	517750	7080175	0.7	21.8	10.2	64	0.1	23.9	9.7	259	1.98	8.6	0.7
L-F37	517752	7080225	0.8	23.9	11.1	74	0.1	25.7	24.4	891	2.11	8.5	0.6
L-F38	517751	7080275	1.2	28.3	13.5	81	0.2	29.2	21.9	684	2.91	10	1.2
L-F39	517752	7080325	0.9	32.6	11.2	82	<0.1	28.4	11.2	289	2.31	8.3	0.9
L-F40	517751	7080375	0.6	31.4	10.7	81	0.2	31.7	10.3	458	2.1	7.7	1.4
L-F41	517751	7080425	0.7	20.4	7.7	68	0.2	20.7	7.3	143	1.98	5.9	0.8
L-F42	517751	7080475	5.4	59.8	16.2	96	0.8	41.8	15.1	227	4.03	6.1	2.2
L-F43	517751	7080525	1.5	84.1	14.4	69	0.4	40.6	13.2	227	1.98	7.9	5.1
L-F44	517751	7080575	1.1	51.6	20.8	65	<0.1	56.1	19.6	270	4.35	19.8	0.5
L-F45	517750	7080625	0.5	34.1	4.9	15	0.1	4	1.5	37	0.97	1.3	0.4
L-F46	517750	7080675	0.6	58	12.3	91	0.1	35.2	14.5	383	2.53	8.7	2.8
L-G02	517911	7078574	4.7	194.9	12.1	57	1	28.3	6	133	6.88	15.9	3.8
L-G03	517902	7078524	1.6	54.7	13.7	58	0.1	33	8.9	179	2.54	12.1	1
L-G05	517900	7078625	2.4	52.9	12.1	63	0.5	28.3	6.6	148	2.94	12.3	1.3
L-G06	517900	7078675	4.1	123	12.2	62	0.6	35	8.3	166	3.51	17.7	3.9
L-G08	517900	7078775	1.8	65.9	13.9	98	0.1	51	14.8	234	2.67	12.2	2.2
L-G09	517900	7078825	1.5	84.4	13.2	121	0.2	108.9	24.5	324	2.25	9.5	2.6
L-G11	517900	7078925	2.1	11.8	13	47	0.2	12.9	5.3	175	2.71	12.5	0.6
L-G12	517900	7078975	1.1	30.5	13.9	70	0.1	29.9	10.5	200	2.6	12.1	0.9
L-G14	517900	7079075	1.5	16	11.2	56	0.2	20.8	6.3	178	3.02	16.1	0.4
L-G15	517900	7079125	1.1	18.4	16.9	74	0.2	18	5	180	2.51	12.5	0.3
L-G17	517900	7079225	1.3	18.4	12.4	54	0.1	20	8	187	2.48	13.6	0.7
L-G18	517900	7079275	1.7	16.2	13	46	<0.1	19	9.2	181	2.8	13.3	0.6
L-G20	517900	7079375	1.7	53.9	15	87	0.2	126.2	31.7	434	3.77	94.4	1.7
L-G21	517900	7079425	1.4	27.6	12.5	58	<0.1	23.4	7.3	175	2.92	13.4	0.8
L-G23	517900	7079525	1.7	37.6	13	50	<0.1	23.4	9	125	2.59	12.7	0.8
L-G24	517900	7079575	1.3	49.4	7.8	54	<0.1	16.9	6.6	125	3.38	26.5	1
L-G26	517900	7079675	1.9	9.5	10.5	37	<0.1	11.9	4.3	134	3.27	16.2	0.3
L-G27	517900	7079725	1.2	20.6	10.4	35	0.2	13.6	4.1	94	1.77	11.8	0.9
L-G29	517900	7079825	0.4	40.5	12.2	54	0.3	29.3	7.8	174	1.49	7.7	2.6
L-G30	517912	7080569	0.8	28.7	11	80	0.1	35.4	13.2	332	2.68	9.8	1.1
L-G32	517913	7080569	1	24.5	12	89	0.1	32.9	14.8	547	2.93	11.1	1.3
L-G33	517913	7080569	1	32.1	12.3	86	0.2	29.2	13.3	460	2.78	11.2	1.2
L-G34	517913	7080569	0.9	27.9	11.9	82	<0.1	29.4	10.9	292	2.53	11	1.2
L-G34B	517913	7080569	0.6	40.6	13.4	78	<0.1	28.6	9.2	191	2.59	11.3	0.7
L-G35	517895	7080113	0.8	34.8	14.1	86	0.2	30.8	9.9	286	2.44	10.9	2.2

Waypoint	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)
L-F28	2.7	3.3	21	0.3	0.2	0.2	21	0.5	0.044	32	21	0.39	222
L-F29	4.6	9.4	13	0.2	0.3	0.3	48	0.15	0.021	21	39	0.72	279
L-F30	2.2	1	14	0.2	0.3	0.2	24	0.24	0.054	16	24	0.36	183
L-F31	1.5	1.6	15	<0.1	0.3	0.2	32	0.22	0.063	10	33	0.59	179
L-F32	1.8	3.1	21	0.1	0.3	0.2	30	0.16	0.046	16	25	0.48	211
L-F33	1.7	3.1	15	0.1	0.2	0.2	29	0.15	0.043	15	25	0.52	177
L-F34	1.4	2.7	13	<0.1	0.3	0.2	41	0.17	0.049	15	31	0.56	202
L-F35	3.3	3.6	17	0.1	0.3	0.2	35	0.23	0.057	16	27	0.5	248
L-F36	0.7	2.9	14	0.1	0.2	0.2	30	0.24	0.041	11	21	0.43	223
L-F37	2.1	3.2	21	0.1	0.3	0.1	30	0.32	0.057	12	23	0.47	261
L-F38	2.6	3.1	15	0.2	0.3	0.2	40	0.2	0.057	17	31	0.58	243
L-F39	1.6	4.5	16	0.1	0.4	0.2	26	0.18	0.041	16	21	0.46	275
L-F40	10.8	3.2	45	0.4	0.5	0.2	25	0.92	0.06	12	22	0.46	364
L-F41	1	2.2	19	0.2	0.2	0.2	26	0.21	0.052	13	25	0.5	149
L-F42	1.2	4.6	10	0.5	0.4	0.4	148	0.1	0.077	14	51	0.76	181
L-F43	2.8	2.1	51	0.4	0.3	0.2	29	0.53	0.067	105	24	0.4	269
L-F44	1.6	5.1	17	0.1	0.3	0.3	62	0.22	0.019	10	45	0.89	184
L-F45	7.3	0.6	5	0.1	0.1	0.1	49	0.05	0.018	9	7	0.07	73
L-F46	1.2	3.6	38	0.2	0.2	0.2	38	0.87	0.047	17	36	0.57	250
L-G02	3.5	3	14	0.2	0.8	0.3	56	0.04	0.16	23	30	0.24	106
L-G03	1.6	4.7	7	0.2	0.6	0.2	41	0.05	0.028	13	24	0.43	191
L-G05	2.4	1.7	9	0.1	0.6	0.2	43	0.06	0.056	15	24	0.38	104
L-G06	8.9	5.6	14	0.2	1.5	0.3	48	0.07	0.105	21	28	0.45	116
L-G08	4	5.2	10	0.3	0.6	0.2	38	0.07	0.048	17	25	0.45	267
L-G09	2.2	6.2	16	0.3	0.7	0.2	28	0.12	0.073	23	21	0.4	563
L-G11	3.9	3.6	7	0.2	0.4	0.2	62	0.05	0.038	13	25	0.33	161
L-G12	3.9	5.7	8	0.2	0.5	0.2	36	0.05	0.035	13	26	0.43	232
L-G14	1.3	2.9	6	0.1	0.5	0.2	51	0.05	0.034	11	24	0.39	96
L-G15	0.9	1.1	5	0.1	1.1	0.3	27	0.04	0.054	10	17	0.2	91
L-G17	1.4	3.6	10	0.1	0.4	0.2	41	0.06	0.023	16	22	0.44	249
L-G18	2.7	3.9	5	0.1	0.6	0.2	50	0.05	0.024	11	25	0.36	176
L-G20	2	1.2	30	0.2	0.3	0.3	61	0.19	0.067	24	113	1.38	366
L-G21	1.1	2.3	13	0.2	0.4	0.2	49	0.26	0.069	13	23	0.33	146
L-G23	1.2	5.1	7	<0.1	0.4	0.3	47	0.05	0.021	17	21	0.32	129
L-G24	1.1	17.7	15	<0.1	0.3	0.6	22	0.06	0.056	32	25	0.54	113
L-G26	1	2.7	5	0.1	0.6	0.2	59	0.04	0.031	9	21	0.25	55
L-G27	1.5	2.6	9	0.1	0.3	0.2	37	0.06	0.023	17	12	0.24	115
L-G29	2.7	1.7	21	0.3	0.2	0.2	19	0.22	0.058	32	22	0.34	279
L-G30	1.7	4.3	15	<0.1	0.3	0.2	43	0.21	0.06	16	42	0.76	278
L-G32	2.2	4.4	19	<0.1	0.4	0.3	46	0.21	0.053	16	39	0.73	247
L-G33	1.2	4.3	14	0.1	0.4	0.2	42	0.14	0.042	15	33	0.61	181
L-G34	1.3	7.3	14	0.1	0.4	0.2	39	0.15	0.042	16	32	0.66	151
L-G34B	2	7.4	6	<0.1	0.5	0.2	35	0.04	0.011	15	29	0.55	217
L-G35	2.5	3.5	19	0.3	0.3	0.3	35	0.2	0.045	19	31	0.53	248

Waypoint	Ti (%)	Bi (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Hg (ppm)	Sc (ppm)	Ti (ppm)	S (%)	Ga (ppm)	Se (ppm)	Te (ppm)
L-F28	0.024	<20	1.2	0.014	0.09	<0.1	0.06	1.8	0.2	0.06	4	0.7	<0.2
L-F29	0.084	<20	2.57	0.021	0.13	0.2	0.03	3.9	0.3	<0.05	6	0.7	<0.2
L-F30	0.032	<20	1.04	0.009	0.12	<0.1	0.08	1.4	0.2	0.07	4	0.6	<0.2
L-F31	0.058	<20	1.5	0.015	0.19	0.2	0.06	2	0.2	0.06	5	0.5	<0.2
L-F32	0.063	<20	1.31	0.011	0.22	0.4	0.04	1.8	0.3	<0.05	5	<0.5	<0.2
L-F33	0.047	<20	1.51	0.012	0.14	0.2	0.05	1.8	0.2	<0.05	5	<0.5	<0.2
L-F34	0.053	<20	1.69	0.012	0.15	0.1	0.06	2.1	0.2	<0.05	5	<0.5	<0.2
L-F35	0.052	<20	1.43	0.018	0.16	0.3	0.11	2.1	0.2	<0.05	4	<0.5	<0.2
L-F36	0.047	<20	1.23	0.023	0.11	0.4	0.03	1.8	0.2	0.05	4	<0.5	<0.2
L-F37	0.053	<20	1.26	0.028	0.14	0.1	0.03	1.9	0.2	0.07	4	<0.5	<0.2
L-F38	0.053	<20	1.75	0.015	0.15	0.1	0.05	2.5	0.2	<0.05	5	<0.5	<0.2
L-F39	0.038	<20	1.31	0.009	0.11	0.3	0.04	1.8	0.2	<0.05	4	<0.5	<0.2
L-F40	0.036	<20	1.34	0.019	0.12	<0.1	0.1	1.9	0.2	0.1	4	0.6	<0.2
L-F41	0.056	<20	1.4	0.014	0.16	0.2	0.06	1.7	0.2	0.08	5	<0.5	<0.2
L-F42	0.111	<20	4.35	0.012	0.16	0.2	0.05	5.2	0.2	<0.05	11	1.7	<0.2
L-F43	0.028	<20	1.62	0.013	0.08	0.1	0.06	2	0.2	<0.05	4	0.8	<0.2
L-F44	0.096	<20	3.33	0.021	0.1	0.2	0.01	4	0.2	<0.05	8	<0.5	<0.2
L-F45	0.048	<20	0.56	0.01	0.03	<0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
L-F46	0.038	<20	2.06	0.072	0.11	0.1	0.05	2.3	0.2	<0.05	5	0.6	<0.2
L-G02	0.021	<20	1.48	0.007	0.06	0.2	0.06	1.4	0.2	0.17	5	3.1	<0.2
L-G03	0.031	<20	1.74	0.006	0.04	0.2	0.03	1.9	0.2	<0.05	4	0.9	<0.2
L-G05	0.026	<20	1.49	0.007	0.05	0.2	0.04	1.6	0.2	<0.05	5	1.2	<0.2
L-G06	0.032	<20	1.94	0.008	0.07	0.2	0.08	3.1	0.3	0.05	4	2.4	0.3
L-G08	0.033	<20	1.83	0.008	0.06	0.2	0.06	2.5	0.2	<0.05	4	0.7	<0.2
L-G09	0.037	<20	1.62	0.008	0.09	0.3	0.04	2.1	0.2	<0.05	3	1.2	<0.2
L-G11	0.022	<20	1.82	0.006	0.04	0.1	0.03	2.1	0.1	<0.05	5	0.7	<0.2
L-G12	0.031	<20	1.62	0.006	0.06	0.2	0.04	2.2	0.2	<0.05	4	0.8	<0.2
L-G14	0.046	<20	1.17	0.005	0.05	0.3	0.02	1.6	0.2	<0.05	5	<0.5	<0.2
L-G15	0.021	<20	0.58	0.003	0.03	0.2	0.04	0.7	0.1	<0.05	3	<0.5	<0.2
L-G17	0.028	<20	1.44	0.007	0.05	0.1	0.02	1.6	0.2	<0.05	4	<0.5	<0.2
L-G18	0.025	<20	1.77	0.004	0.04	0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
L-G20	0.055	<20	2.6	0.009	0.12	0.2	0.06	2.3	0.4	<0.05	8	<0.5	<0.2
L-G21	0.036	<20	1.29	0.008	0.06	0.2	0.01	1.5	0.1	<0.05	5	<0.5	<0.2
L-G23	0.017	<20	1.51	0.003	0.03	0.2	0.02	1.5	0.1	<0.05	5	0.5	<0.2
L-G24	0.061	<20	1.6	0.013	0.25	0.1	0.02	1.4	0.3	0.13	4	0.6	<0.2
L-G26	0.042	<20	1.07	0.004	0.04	0.2	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
L-G27	0.024	<20	1.02	0.004	0.04	0.1	0.03	1.3	0.2	<0.05	4	<0.5	<0.2
L-G29	0.024	<20	1.2	0.009	0.08	0.1	0.08	1.7	0.2	<0.05	4	0.7	<0.2
L-G30	0.081	<20	2.02	0.018	0.29	0.1	0.07	3.3	0.3	<0.05	6	<0.5	<0.2
L-G32	0.083	<20	1.96	0.016	0.25	0.3	0.06	3	0.3	<0.05	6	<0.5	<0.2
L-G33	0.071	<20	1.65	0.009	0.17	0.2	0.04	2.6	0.2	0.1	6	<0.5	<0.2
L-G34	0.086	<20	1.69	0.014	0.15	0.1	0.02	2.5	0.2	<0.05	5	<0.5	<0.2
L-G34B	0.053	<20	1.77	0.006	0.11	0.4	0.06	3.1	0.2	<0.05	4	<0.5	<0.2
L-G35	0.05	<20	1.61	0.009	0.14	0.1	0.07	2.6	0.2	<0.05	5	0.6	<0.2

Waypoint	Easting_ NAD83	Northing_ NAD83	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)
L-G36	517893	7080168	0.8	43.4	15.9	77	<0.1	37.1	12.1	252	3.08	15.6	0.5
L-G38	517908	7080268	1.1	30	14.7	90	0.3	33.3	13.3	271	2.25	15.1	2.3
L-G39	517908	7080312	1.3	40.2	14.1	65	<0.1	23.5	9	186	2.4	11.2	3.1
L-G41	517896	7080419	1.3	17.8	11.3	40	<0.1	13.7	5	114	1.97	10.1	1.2
L-G42	517894	7080462	2	113.7	12.4	111	0.3	67.5	29	480	2.81	11	4.3
L-G45	517906	7080619	0.5	29.8	11.5	61	0.1	16.7	5.8	167	1.91	6.1	1.1
L-G45	517900	7080625	0.3	24.8	8.3	33	0.1	12.1	4.1	103	1.04	3.8	1.4
L-M01	517624	7078048	1	40	13	65	<0.1	39.7	14.7	191	2.56	9.4	0.8
L-X01	516550	7078425	0.8	4.7	5.7	35	<0.1	6.7	3.4	154	1.1	3.8	1.3
L-X02	516550	7078474	0.4	6.8	7.4	35	<0.1	8.1	3.4	121	1.1	3.7	2.1
L-X03	516555	7078514	0.7	10.7	11.6	45	<0.1	10	4.7	154	1.71	4.8	3.2
L-X04	516553	7078570	0.7	19.1	14.3	75	0.2	19.1	10.4	601	2.14	6.6	7.2
L-X05	516556	7078623	0.7	9.7	9.2	42	<0.1	10.3	4.1	133	1.38	4.7	3
L-X06	516552	7078670	1.1	12.4	10.1	30	<0.1	8.2	3.2	79	1.32	5.1	2.4
L-X07	516548	7078725	2.1	10.4	10.6	30	<0.1	8.9	3	104	2.1	12.3	1.7
L-X08	516556	7078781	2.5	10.2	15.7	32	0.1	10.5	3.4	110	1.59	6	3.3
L-X09	516554	7078816	5.8	11	13.2	50	<0.1	14.7	7.1	170	2.44	12.9	1.6
L-X10	516553	7078876	3.8	16.9	10.9	43	<0.1	16.9	6.5	144	2.48	12.6	2.8
L-X11	516546	7078928	3.3	9.3	11.4	39	0.1	10.5	4.7	157	1.88	9	5.1
L-X12	516551	7078981	2.8	11.7	14.1	49	0.1	11.2	4.7	130	1.99	9.5	3.4
L-X13	516557	7079018	1	2.3	6.2	6	<0.1	1.2	0.3	20	0.18	<0.5	0.5
L-X14	516556	7079078	1.7	9.2	13	49	<0.1	12.7	4.7	132	2	10.6	1
L-X15	516555	7079121	2.5	28.4	18.1	86	0.2	22.4	13.9	757	2.19	13	54.1
L-X16	516561	7079171	3.3	28.6	9.5	74	0.2	23.6	11.6	542	1.87	6	25.7
L-X17	516556	7079227	2.1	18	13.5	48	<0.1	20.9	8.6	178	2.31	9.3	3.3
L-X18	516555	7079277	2.4	34.1	14	56	<0.1	24.1	10.5	183	2.61	11.3	4.2
L-X19	516551	7079323	2.9	14.3	11.9	71	<0.1	16.2	13.2	410	2.07	8.6	11.9
L-X20	516549	7079372	2.1	17.2	13.3	48	0.1	17.9	6.9	164	2.36	9.7	1
L-X21	516552	7079422	1.9	15.7	5.2	26	0.2	7.6	3	406	0.72	3.5	22.4
L-X22	516549	7079481	3.2	23.4	14	71	0.1	21.6	9.4	412	2.33	9.5	33.8
L-X23	516546	7079532	4	10	13.2	44	<0.1	11.1	5.4	180	2.23	9.3	2
L-X24	516551	7079581	3.5	9.9	12.4	52	0.2	11.5	6.5	235	2.32	9.8	6.5
L-X25	516550	7079627	3.5	15.7	11.1	61	<0.1	17.9	7.1	245	2.4	10.6	1.3
L-X26	516555	7079674	1.4	30.8	1.4	8	<0.1	11.6	1.6	205	0.26	13.9	182.5
L-X27	516552	7079723	3.2	3.8	10.4	47	<0.1	11.9	2.8	82	1.61	9.6	0.6
L-X28	516557	7079775	2.6	17.5	15.7	70	0.1	20	6.4	149	3.55	16	1.1
L-X29	516556	7079827	1.9	27.6	10.3	87	0.2	25	7.7	232	2.33	10.5	2.9
L-X30	516557	7079874	1.6	32.2	11.2	79	0.2	28.5	8	228	2.35	9.6	3
L-X31	516551	7079928	1.8	8.9	8.7	39	<0.1	15.1	4.1	75	1.35	6.1	1.8
L-X32	516547	7079979	1.9	7.6	9.6	41	<0.1	13.1	3.1	70	1.5	6.9	1.4
L-X33	516555	7080032	1.8	18.7	9.8	75	<0.1	15.7	6.5	630	1.73	5.4	9
L-X34	516551	7080073	1.9	17.6	12.2	74	0.3	19.4	10.9	1181	2.4	8.6	5.7
L-X35	516548	7080123	1.7	17.5	14.6	102	0.1	23.3	8.9	280	3.01	15.4	0.5



Waypoint	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)
L-G36	<0.5	4.3	12	0.2	0.4	0.3	53	0.11	0.035	12	39	0.74	105
L-G38	2.1	3.6	23	0.2	0.4	0.3	34	0.23	0.064	23	26	0.49	236
L-G39	2	7	11	<0.1	0.5	0.2	35	0.09	0.013	21	15	0.45	179
L-G41	0.5	4.5	9	<0.1	0.4	0.2	40	0.06	0.009	16	19	0.32	110
L-G42	4.4	5.1	42	0.3	0.4	0.3	37	0.55	0.074	37	28	0.54	356
L-G45	3.7	5	18	0.1	0.2	0.2	27	0.11	0.023	14	24	0.42	137
L-G45	1.5	1.2	17	0.2	0.2	0.2	14	0.12	0.027	14	16	0.25	113
L-M01	<0.5	7.9	9	0.2	0.3	0.3	33	0.05	0.018	17	28	0.53	316
L-X01	1.6	4.2	11	0.2	0.2	0.2	19	0.13	0.044	16	13	0.33	112
L-X02	<0.5	3.8	12	0.1	0.2	0.2	16	0.13	0.04	14	14	0.3	134
L-X03	4.7	4.2	10	<0.1	0.2	0.3	25	0.09	0.034	16	18	0.36	134
L-X04	0.9	5.8	24	0.4	0.4	0.4	30	0.3	0.057	21	21	0.47	399
L-X05	24.9	3.7	13	0.1	0.2	0.2	22	0.14	0.033	12	15	0.35	137
L-X06	0.9	4	8	0.1	0.3	0.2	29	0.05	0.015	13	13	0.17	195
L-X07	1.4	4.2	6	0.1	0.6	0.4	46	0.04	0.02	10	16	0.21	69
L-X08	<0.5	2.5	8	0.1	0.3	0.2	34	0.08	0.024	13	13	0.21	191
L-X09	1.3	4.4	8	0.1	0.5	0.2	44	0.06	0.012	15	22	0.32	155
L-X10	<0.5	4.7	6	<0.1	0.6	0.2	41	0.05	0.016	10	21	0.35	148
L-X11	<0.5	4.3	13	<0.1	0.4	0.2	41	0.13	0.015	17	17	0.29	301
L-X12	0.5	4.5	9	<0.1	0.3	0.2	41	0.09	0.021	13	19	0.32	163
L-X13	<0.5	1.9	9	<0.1	<0.1	<0.1	12	0.06	0.006	12	4	0.03	95
L-X14	0.7	2.2	9	<0.1	0.6	0.2	40	0.07	0.026	13	19	0.33	145
L-X15	1.7	4.5	34	0.3	0.5	0.4	33	0.71	0.052	28	21	0.41	266
L-X16	1.7	3.9	45	0.3	0.4	0.2	35	0.97	0.068	17	27	0.51	386
L-X17	3.2	6.6	7	<0.1	0.5	0.2	42	0.06	0.016	16	23	0.37	209
L-X18	1.3	8	6	0.1	0.7	0.2	33	0.04	0.013	21	21	0.36	213
L-X19	0.7	6.4	25	0.1	0.4	0.2	37	0.29	0.059	17	25	0.49	253
L-X20	<0.5	4.7	11	<0.1	0.5	0.2	37	0.09	0.014	14	21	0.36	239
L-X21	<0.5	1.3	103	0.2	0.5	0.1	8	3.22	0.071	7	9	0.21	261
L-X22	<0.5	10.4	28	0.1	0.5	0.2	38	0.44	0.051	24	25	0.52	394
L-X23	10.1	4	7	0.1	0.4	0.2	41	0.07	0.027	14	17	0.26	219
L-X24	<0.5	4.7	11	0.1	0.5	0.4	49	0.14	0.023	14	21	0.3	322
L-X25	<0.5	2.1	10	0.2	0.4	0.2	41	0.1	0.033	10	19	0.39	212
L-X26	<0.5	0.7	123	0.3	1.7	<0.1	5	4.09	0.079	3	5	0.12	494
L-X27	<0.5	3	11	<0.1	0.4	0.2	35	0.18	0.033	12	16	0.3	139
L-X28	1.3	2.9	13	0.2	1	0.2	46	0.14	0.069	12	21	0.31	496
L-X29	1.7	4	19	0.2	1	0.2	28	0.2	0.055	15	15	0.3	874
L-X30	2.1	4.6	24	0.2	1	0.2	26	0.23	0.072	16	16	0.3	1307
L-X31	<0.5	3.1	12	<0.1	0.5	0.1	28	0.16	0.03	13	13	0.27	179
L-X32	0.7	2.5	10	<0.1	0.4	0.1	34	0.16	0.019	11	14	0.25	178
L-X33	7.4	0.4	18	0.7	0.3	0.2	47	0.36	0.036	11	18	0.25	397
L-X34	<0.5	2.6	13	0.4	0.3	0.2	60	0.21	0.033	12	26	0.37	539
L-X35	<0.5	2.6	8	0.4	0.5	0.2	61	0.05	0.049	11	29	0.42	374

Waypoint	Ti (%)	Bi (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Hg (ppm)	Sc (ppm)	Ti (ppm)	S (%)	Ga (ppm)	Se (ppm)	Te (ppm)
L-G36	0.098	<20	1.69	0.01	0.15	0.4	0.01	3	0.3	<0.05	6	<0.5	<0.2
L-G38	0.032	<20	1.51	0.012	0.14	0.2	0.13	2.2	0.2	<0.05	5	0.7	<0.2
L-G39	0.038	<20	1.34	0.007	0.05	0.1	0.04	2.1	0.1	<0.05	4	0.7	<0.2
L-G41	0.032	<20	1.13	0.006	0.05	<0.1	<0.01	1.6	0.1	<0.05	4	<0.5	<0.2
L-G42	0.058	<20	1.49	0.017	0.15	0.2	0.1	2.8	0.2	0.06	4	0.9	<0.2
L-G45	0.047	<20	1.38	0.009	0.08	<0.1	0.04	1.8	0.2	<0.05	5	<0.5	<0.2
L-G45	0.024	<20	0.77	0.008	0.06	0.2	0.04	0.9	0.2	<0.05	4	<0.5	<0.2
L-M01	0.043	<20	1.93	0.008	0.14	0.2	0.01	2.5	0.2	<0.05	4	<0.5	<0.2
L-X01	0.045	<20	0.69	0.008	0.1	0.5	0.01	0.9	0.2	<0.05	3	<0.5	<0.2
L-X02	0.035	<20	0.68	0.009	0.08	4.2	0.02	1.1	0.2	0.06	3	<0.5	<0.2
L-X03	0.046	<20	1.02	0.009	0.07	0.3	0.04	1.4	0.2	<0.05	4	0.5	<0.2
L-X04	0.056	<20	1.21	0.011	0.11	0.5	0.05	2	0.2	<0.05	4	<0.5	<0.2
L-X05	0.038	<20	0.8	0.007	0.05	1.5	0.03	1.2	0.2	<0.05	3	<0.5	<0.2
L-X06	0.019	<20	0.89	0.006	0.03	<0.1	0.02	1.1	0.1	<0.05	4	<0.5	<0.2
L-X07	0.04	<20	0.99	0.004	0.03	0.2	0.02	1	0.1	<0.05	5	<0.5	<0.2
L-X08	0.031	<20	0.75	0.005	0.04	0.6	<0.01	1	0.2	<0.05	4	<0.5	<0.2
L-X09	0.024	<20	1.27	0.004	0.03	<0.1	<0.01	1.6	0.1	<0.05	4	<0.5	<0.2
L-X10	0.031	<20	1.34	0.004	0.03	0.2	0.01	1.7	0.1	<0.05	5	<0.5	<0.2
L-X11	0.022	<20	1.05	0.005	0.03	0.1	<0.01	1.3	0.1	<0.05	4	<0.5	<0.2
L-X12	0.024	<20	1.24	0.005	0.03	<0.1	0.05	1.7	0.2	<0.05	5	0.5	<0.2
L-X13	0.014	<20	0.4	0.005	0.02	<0.1	<0.01	0.6	0.2	<0.05	3	<0.5	<0.2
L-X14	0.026	<20	0.99	0.004	0.04	<0.1	0.03	1.3	0.1	<0.05	4	<0.5	<0.2
L-X15	0.036	<20	1.23	0.015	0.08	0.4	0.05	2.2	0.2	<0.05	4	0.5	<0.2
L-X16	0.05	<20	1.29	0.03	0.1	0.3	0.05	2.8	0.2	0.05	5	<0.5	<0.2
L-X17	0.029	<20	1.52	0.004	0.04	<0.1	0.02	1.9	0.1	<0.05	4	<0.5	<0.2
L-X18	0.017	<20	1.32	0.008	0.04	<0.1	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2
L-X19	0.056	<20	1.11	0.011	0.09	0.2	0.03	2.1	0.2	<0.05	5	<0.5	0.3
L-X20	0.023	<20	1.24	0.004	0.04	<0.1	<0.01	1.7	0.1	<0.05	4	<0.5	<0.2
L-X21	0.012	<20	0.44	0.014	0.03	<0.1	0.09	0.8	<0.1	0.19	1	<0.5	<0.2
L-X22	0.05	<20	1.24	0.012	0.11	0.2	0.04	2.9	0.2	<0.05	4	<0.5	<0.2
L-X23	0.017	<20	1.12	0.003	0.03	0.1	<0.01	1.3	0.1	<0.05	4	<0.5	<0.2
L-X24	0.021	<20	1.3	0.004	0.03	0.1	0.03	1.8	0.1	<0.05	4	<0.5	<0.2
L-X25	0.039	<20	1.37	0.004	0.04	0.4	0.02	1.4	0.2	<0.05	6	<0.5	0.2
L-X26	0.006	<20	0.27	0.02	0.02	<0.1	0.07	0.4	0.2	0.27	<1	1.1	<0.2
L-X27	0.023	<20	0.79	0.004	0.04	0.1	<0.01	1	<0.1	<0.05	3	<0.5	0.3
L-X28	0.012	<20	1.31	0.003	0.03	0.1	0.04	1.3	0.1	<0.05	4	<0.5	<0.2
L-X29	0.012	<20	0.9	0.002	0.05	<0.1	0.18	1.9	0.1	<0.05	3	<0.5	<0.2
L-X30	0.012	<20	0.85	0.004	0.04	<0.1	0.21	2.2	<0.1	<0.05	3	<0.5	0.3
L-X31	0.012	<20	0.87	0.003	0.04	<0.1	0.04	0.9	<0.1	<0.05	3	<0.5	<0.2
L-X32	0.012	<20	0.87	0.003	0.04	0.1	0.03	1	<0.1	<0.05	4	<0.5	<0.2
L-X33	0.015	<20	0.92	0.006	0.04	<0.1	<0.01	1	0.1	<0.05	4	<0.5	<0.2
L-X34	0.019	<20	1.64	0.006	0.04	<0.1	0.02	2.3	0.1	<0.05	5	<0.5	<0.2
L-X35	0.02	<20	1.87	0.004	0.05	0.2	0.02	2.3	0.1	<0.05	5	<0.5	<0.2

Waypoint	Easting_ NAD83	Northing_ NAD83	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)
L-X36	516547	7080174	1.7	21.5	15.5	84	<0.1	24.1	10.1	310	3	15.7	0.6
L-X37	516548	7080218	2.1	23.7	14.9	89	0.3	28.3	10.3	286	3.05	15.4	0.5
L-X38	516550	7080277	1.2	9.5	11.6	89	0.3	16.2	7	188	2.49	10.6	0.5
L-X39	516555	7080322	0.4	8.3	1.5	45	0.2	3.5	1.7	495	0.25	2.4	0.8
L-X40	516550	7080375	1.1	25.5	16.5	74	0.1	30.8	12.2	607	2.42	8.4	1.1
L-Y01	516700	7078425	0.9	10.6	10.8	58	<0.1	13.7	7.2	258	1.78	6.2	2.2
L-Y02	516700	7078225	0.6	12.5	9.4	61	<0.1	14.7	7.7	462	1.71	5.2	3.3
L-Y03	516715	7078526	0.9	18.4	13.7	78	0.2	19.5	11.2	798	2.29	7.4	3.8
L-Y04	516700	7078585	0.8	10.7	10.4	62	<0.1	14	6.2	271	1.87	6.3	1.5
L-Y05	516699	7078635	1.1	14	11.1	64	0.1	16.8	6.1	172	1.75	6.6	5.4
L-Y06	516699	7078720	1.3	11.2	10.9	58	0.1	13.7	6.6	234	1.7	6.5	4.2
L-Y07	516702	7078733	1.1	23.5	12.8	51	<0.1	24.6	7.8	168	2.32	10.2	0.6
L-Y08	516713	7078884	1.3	19.7	9.4	48	<0.1	20.4	6.4	154	2.36	10.6	0.5
L-Y09	516712	7078828	0.5	25.8	11	63	<0.1	26.3	10	299	1.9	13.8	1.2
L-Y10	516706	7078873	5.4	55.3	22.6	113	0.6	39.4	18.9	1667	3.36	20.6	59.1
L-Y11	516707	7078926	2.2	13.1	11.9	52	<0.1	14.1	5.6	126	1.89	7.5	0.7
L-Y12	516705	7078985	2.1	20.3	11.3	62	<0.1	18.7	7.3	182	2.38	11.3	2.5
L-Y13	516701	7079031	1.9	30.9	14.4	70	<0.1	24.8	6.7	218	2.64	16.7	1.3
L-Y14	516704	7079089	2.5	27.9	16.7	71	0.2	20.9	10.8	442	2.05	9.9	17.1
L-Y15	516702	7079145	2.9	12.1	12.1	39	<0.1	12.6	4.8	126	2.45	10.6	1.3
L-Y16	516706	7079193	3.9	15.7	13.8	64	<0.1	18.2	8.4	201	2.59	11.6	3.2
L-Y17	516704	7079236	2	16.8	12.9	74	0.2	19.7	7.8	205	2.21	10.1	10.7
L-Y18	516701	7079286	1.5	15.4	10.6	59	0.1	15	6.5	242	1.65	7.7	7.8
L-Y19	516709	7079339	3.4	12.1	12.5	55	<0.1	13.7	7.1	332	2.29	11.7	5.9
L-Y20	516707	7079385											
L-Y21	516704	7079440	1.2	24.7	13.2	57	<0.1	21	7.6	158	2.12	9.9	2.1
L-Y22	516693	7079483	3.1	21.4	12.8	50	<0.1	20.6	6.9	148	2.29	10.9	6.6
L-Y23	516698	7079546	1.5	10.5	12	32	<0.1	11.3	4	107	2.28	7.7	1.2
L-Y24	516713	7079587	1.6	21.9	12.8	52	<0.1	19.5	8	163	2.39	10.1	2.4
L-Y25	516694	7079661	3.7	22.7	84.4	88	0.7	21.5	14.7	385	3.05	14.7	8.5
L-Y26	516699	7079690	1.4	17.9	10.5	56	<0.1	17.4	6.5	149	2.17	9.1	0.7
L-Y27	516701	7079740	1.4	24.3	11.6	57	<0.1	18.2	6.9	165	2.41	10.6	2.1
L-Y28	516704	7079786	1.8	17.8	10.7	46	<0.1	15.1	5.8	139	2.12	9.9	3.8
L-Y29	516685	7079837	7.8	12.4	22.1	41	0.1	13.1	4.3	207	2.07	31.5	38.5
L-Y33	516704	7080036	1.8	12.1	11	69	<0.1	16.1	6.3	143	2.26	9.4	1.3
L-Y34	516706	7080100	1.6	22.5	11.7	61	<0.1	17.9	6.3	144	2.21	11.8	0.7
L-Y35	516703	7080136	1.6	24	9.5	57	<0.1	19	7.3	144	2.11	9.2	1.8
L-Y36	516700	7080169	1.8	14.7	12.3	71	<0.1	14.3	5.1	151	2.19	9	4.3
L-Y37	516700	7080225	1.5	14.9	15.2	66	0.1	16.7	6.8	273	2.66	10.9	0.4
L-Z01	516850	7078425	0.7	10.9	7.6	46	0.1	10.6	4.2	153	1.26	3.7	1.9
L-Z02	516851	7078475	0.5	8.6	6.3	36	0.1	8.4	2.8	85	1.02	3.4	2
L-Z03	516853	7078476	0.3	9.2	6.8	24	0.1	7.6	1.9	57	0.89	2.8	2.6
L-Z04	516849	7078575	0.7	12.5	10.1	38	0.2	13	4.2	98	1.25	4	4.4

Waypoint	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)
L-X36	11	3.6	8	0.2	0.7	0.2	52	0.05	0.055	14	26	0.41	408
L-X37	1	3.2	13	0.1	0.5	0.2	57	0.1	0.033	11	27	0.4	1935
L-X38	<0.5	3.1	8	0.2	0.5	0.2	48	0.06	0.051	11	25	0.37	306
L-X39	<0.5	<0.1	272	0.6	0.3	<0.1	4	5.19	0.072	<1	4	0.12	1901
L-X40	3.6	3.1	25	0.2	0.5	0.2	23	0.3	0.056	14	17	0.33	484
L-Y01	1.6	4.6	14	<0.1	0.3	0.3	31	0.17	0.046	15	18	0.42	224
L-Y02	0.5	4.2	25	0.3	0.3	0.2	28	0.38	0.05	15	17	0.41	318
L-Y03	0.9	4.2	22	0.3	0.5	0.2	33	0.31	0.058	19	20	0.44	438
L-Y04	1.7	4.9	9	0.1	0.3	0.2	30	0.1	0.035	14	17	0.36	127
L-Y05	<0.5	3.5	15	0.2	0.3	0.2	33	0.18	0.039	16	20	0.42	232
L-Y06	1.7	3	17	0.1	0.2	0.2	31	0.23	0.04	15	18	0.37	203
L-Y07	<0.5	4.9	9	<0.1	0.5	0.2	38	0.08	0.027	11	23	0.37	237
L-Y08	1.3	3.3	9	<0.1	0.5	0.2	41	0.07	0.023	11	22	0.35	202
L-Y09	0.6	6.4	18	0.1	0.3	0.2	25	0.24	0.053	14	23	0.43	296
L-Y10	6.8	3.6	66	0.7	0.8	0.4	49	1.33	0.134	50	29	0.48	981
L-Y11	3.5	3.4	7	<0.1	0.3	0.1	28	0.08	0.026	10	17	0.28	120
L-Y12	1.9	5.6	8	0.1	0.6	0.2	48	0.06	0.014	16	24	0.36	177
L-Y13	7.9	4.2	10	<0.1	0.6	1.7	47	0.08	0.045	11	25	0.45	154
L-Y14	0.8	4	20	0.3	0.3	0.4	28	0.38	0.048	19	12	0.38	261
L-Y15	0.9	3.4	6	<0.1	0.4	0.2	48	0.04	0.019	12	21	0.28	115
L-Y16	0.6	6	8	0.1	0.5	0.2	49	0.06	0.016	13	25	0.35	259
L-Y17	1.3	7.1	23	0.1	0.3	0.4	37	0.34	0.035	19	23	0.49	335
L-Y18	1	3.7	16	0.1	0.3	0.2	28	0.21	0.046	15	18	0.36	196
L-Y19	1	3.8	10	0.2	0.4	0.3	43	0.09	0.025	15	20	0.34	166
L-Y20													
L-Y21	1.6	6	10	0.1	0.6	0.2	36	0.08	0.017	19	22	0.38	269
L-Y22	2.5	6	7	<0.1	0.6	0.2	45	0.05	0.012	18	25	0.36	185
L-Y23	<0.5	4.5	5	<0.1	0.4	0.2	48	0.04	0.022	13	18	0.24	69
L-Y24	2.2	6.4	7	0.1	0.5	0.2	41	0.05	0.017	16	22	0.35	206
L-Y25	<0.5	7.4	15	0.8	0.5	0.3	62	0.15	0.034	16	29	0.48	343
L-Y26	1	4.2	7	<0.1	0.5	0.1	44	0.05	0.013	15	21	0.33	305
L-Y27	1	5.9	8	<0.1	0.7	0.2	38	0.06	0.019	16	21	0.37	234
L-Y28	1	4.9	6	<0.1	0.6	0.2	41	0.04	0.013	15	19	0.27	168
L-Y29	<0.5	11.9	22	0.1	1.3	0.4	40	0.18	0.042	18	23	0.41	122
L-Y33	0.7	3.6	11	0.1	0.5	0.2	41	0.18	0.02	14	19	0.37	247
L-Y34	1	3.7	12	0.1	1	0.2	33	0.13	0.034	14	16	0.25	629
L-Y35	<0.5	4.7	10	<0.1	0.9	0.1	29	0.09	0.023	16	16	0.28	425
L-Y36	<0.5	2.6	12	0.3	0.3	0.2	53	0.16	0.027	13	21	0.31	327
L-Y37	<0.5	2.2	15	0.2	0.6	0.2	49	0.18	0.035	11	21	0.3	481
L-Z01	<0.5	1.4	11	0.1	0.2	0.2	23	0.1	0.034	12	15	0.3	188
L-Z02	<0.5	1	11	<0.1	0.2	0.2	17	0.14	0.032	11	14	0.25	129
L-Z03	0.8	1.6	13	<0.1	0.2	0.2	13	0.14	0.027	12	13	0.21	134
L-Z04	1.6	1.7	13	0.1	0.3	0.2	18	0.14	0.039	15	16	0.28	217

Waypoint	Ti (%)	Bi (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Hg (ppm)	Sc (ppm)	Ti (ppm)	S (%)	Ga (ppm)	Se (ppm)	Te (ppm)
L-X36	0.019	<20	1.75	0.004	0.05	0.1	0.09	2.2	0.1	<0.05	5	<0.5	<0.2
L-X37	0.014	<20	1.84	0.004	0.03	0.1	0.11	2.4	0.1	<0.05	5	<0.5	<0.2
L-X38	0.023	<20	1.6	0.004	0.05	0.1	0.04	1.9	0.1	<0.05	5	<0.5	0.2
L-X39	0.006	<20	0.16	0.016	0.02	<0.1	0.09	<0.1	<0.1	0.17	<1	0.5	<0.2
L-X40	0.009	<20	0.98	0.006	0.04	<0.1	0.07	1.6	<0.1	<0.05	3	0.8	<0.2
L-Y01	0.049	<20	1.01	0.01	0.09	0.8	0.03	1.6	0.2	<0.05	4	<0.5	0.3
L-Y02	0.05	<20	0.99	0.013	0.09	1.6	0.05	1.6	0.2	<0.05	4	<0.5	<0.2
L-Y03	0.047	<20	1.04	0.01	0.09	0.7	0.06	1.9	0.2	<0.05	4	<0.5	<0.2
L-Y04	0.049	<20	1.01	0.007	0.05	0.4	0.01	1.5	0.2	<0.05	4	<0.5	<0.2
L-Y05	0.041	<20	1.13	0.013	0.07	0.6	0.04	1.7	0.2	<0.05	5	<0.5	<0.2
L-Y06	0.035	<20	1.02	0.007	0.08	0.3	0.03	1.5	0.2	<0.05	4	<0.5	<0.2
L-Y07	0.035	<20	1.48	0.004	0.06	0.4	0.01	2	0.1	<0.05	4	<0.5	0.4
L-Y08	0.03	<20	1.22	0.006	0.04	<0.1	0.02	1.5	0.1	<0.05	4	<0.5	<0.2
L-Y09	0.045	<20	1.1	0.019	0.11	0.6	0.02	2	0.2	<0.05	3	<0.5	0.3
L-Y10	0.029	<20	2.26	0.018	0.15	0.3	0.1	3.6	0.4	0.07	6	1	<0.2
L-Y11	0.029	<20	0.96	0.003	0.04	0.1	0.01	1.3	0.1	<0.05	3	<0.5	<0.2
L-Y12	0.027	<20	1.47	0.006	0.04	0.6	<0.01	2.2	0.1	<0.05	4	<0.5	<0.2
L-Y13	0.068	<20	1.23	0.009	0.06	0.4	0.02	2	0.2	<0.05	6	<0.5	0.2
L-Y14	0.035	<20	1.11	0.01	0.1	0.2	0.06	2	0.2	0.08	4	<0.5	<0.2
L-Y15	0.021	<20	1.3	0.003	0.03	<0.1	0.01	1.6	0.1	<0.05	4	<0.5	0.2
L-Y16	0.027	<20	1.6	0.005	0.04	<0.1	0.02	2.4	0.2	<0.05	5	<0.5	<0.2
L-Y17	0.044	<20	1.34	0.015	0.09	0.2	0.05	2.6	0.2	<0.05	5	<0.5	<0.2
L-Y18	0.038	<20	1	0.01	0.07	0.2	0.05	1.6	0.2	<0.05	4	<0.5	<0.2
L-Y19	0.039	<20	1.22	0.006	0.08	0.6	0.03	1.7	0.2	<0.05	5	<0.5	<0.2
L-Y20													
L-Y21	0.029	<20	1.26	0.006	0.04	<0.1	0.03	2.4	0.1	<0.05	3	<0.5	<0.2
L-Y22	0.031	<20	1.53	0.005	0.04	0.2	0.03	2.9	<0.1	<0.05	5	0.6	<0.2
L-Y23	0.036	<20	1.38	0.004	0.02	0.1	0.03	1.4	0.1	<0.05	6	<0.5	<0.2
L-Y24	0.029	<20	1.46	0.005	0.04	0.1	0.03	2.6	0.1	<0.05	4	<0.5	<0.2
L-Y25	0.061	<20	2.12	0.011	0.09	0.3	0.02	3	0.4	<0.05	8	<0.5	<0.2
L-Y26	0.021	<20	1.33	0.006	0.02	<0.1	0.02	2.2	0.1	<0.05	4	<0.5	<0.2
L-Y27	0.031	<20	1.27	0.006	0.05	0.1	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
L-Y28	0.021	<20	1.19	0.003	0.03	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
L-Y29	0.084	<20	1.24	0.013	0.05	0.5	0.03	1.6	0.4	<0.05	8	<0.5	<0.2
L-Y33	0.015	<20	1.25	0.003	0.05	<0.1	0.02	1.8	0.1	<0.05	4	0.6	<0.2
L-Y34	0.01	<20	1	0.003	0.03	<0.1	0.17	1.6	<0.1	<0.05	3	<0.5	<0.2
L-Y35	0.012	<20	0.95	0.003	0.03	<0.1	0.11	2	<0.1	<0.05	3	0.9	<0.2
L-Y36	0.014	<20	1.28	0.005	0.06	<0.1	0.13	1.9	0.1	<0.05	5	<0.5	<0.2
L-Y37	0.013	<20	1.35	0.006	0.03	0.1	0.04	1.8	<0.1	<0.05	4	<0.5	<0.2
L-Z01	0.03	<20	0.84	0.009	0.05	0.1	0.03	1.4	0.2	<0.05	4	<0.5	<0.2
L-Z02	0.025	<20	0.67	0.009	0.05	0.2	0.03	1	0.1	<0.05	3	<0.5	<0.2
L-Z03	0.022	<20	0.67	0.008	0.05	0.2	0.05	1.2	0.2	<0.05	4	0.6	<0.2
L-Z04	0.025	<20	0.8	0.009	0.04	0.1	0.04	1.4	0.2	<0.05	3	<0.5	<0.2

Waypoint	Easting_ NAD83	Northing_ NAD83	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)
L-Z05	516850	7078625	1.2	12.1	10.3	55	0.2	13.2	6.1	183	1.73	6.5	4.3
L-Z06	516850	7078675	1.1	18.8	13.8	56	0.2	13.8	6.3	213	1.93	7.1	9.5
L-Z07	516847	7078724	0.9	19.4	11.4	59	<0.1	17.1	6.8	204	1.74	7.5	4.8
L-Z08	516850	7078775	2.4	4.7	13.9	29	<0.1	6.5	2.2	65	2.34	5.5	0.6
L-Z09	516850	7078825	0.9	21	15.5	56	<0.1	22.2	8	179	2.29	10.7	0.8
L-Z10	516850	7078875	0.4	9.6	6.4	11	<0.1	3.9	0.9	23	0.44	1	3.2
L-Z11	516846	7078925	0.9	24.5	13.4	78	0.3	20.1	6	150	1.75	4.6	14.6
L-Z12	516850	7078975	1.7	18.3	18.2	81	0.2	19.5	7	145	1.87	8.4	11.9
L-Z13	516850	7079025	2.5	11.7	15.8	57	0.3	11.7	10.3	383	4.75	7.2	2.1
L-Z14	516850	7079075	0.8	19.1	14.9	43	0.3	18.7	6.5	119	2.11	7	1
L-Z15	516850	7079125	2.9	15.3	14.8	54	0.1	20.1	7.5	147	2.59	10.6	1.2
L-Z16	516851	7079175	3.7	16	18.8	65	0.1	17.3	26.2	1202	2.55	12.5	7.1
L-Z17	516851	7079225	1.5	4.5	4.7	19	<0.1	4.3	1.3	64	0.63	2.3	1.4
L-Z18	516850	7079275	2.5	30.7	17.6	53	0.3	20.6	8.4	280	1.84	8.2	34.8
L-Z19	516850	7079325	1.6	27.1	11.7	47	<0.1	24	8.1	153	2.64	13.4	1.3
L-Z20	516851	7079375	2	35.9	16.2	56	0.5	20.4	9.6	325	1.66	7.8	52.8
L-Z21	516851	7079418	1.4	36	14.8	55	<0.1	30.8	9.2	174	2.84	12.3	1.1
L-Z22	516850	7079482	1.3	3.8	16.3	12	0.2	3.6	1.5	36	1.09	2.3	2
L-Z23	516850	7079525	2.9	5.9	11.1	27	<0.1	6.4	2.1	65	2.19	9.3	2.8
L-Z24	516850	7079575	1.2	27	14.7	62	<0.1	30.2	11.6	172	2.58	12.2	0.5
L-Z25	516850	7079625	3.9	10	17.6	42	0.1	13.4	6.8	109	2.41	7.8	4.2
L-Z26	516850	7079675	3.9	25.1	14.6	79	0.3	19.7	12.9	1220	1.91	9.3	112.9
L-Z27	516850	7079725	1.4	10.9	13.5	37	<0.1	11	4.4	97	2.16	9.2	6.3
L-Z28	516850	7079775	1.3	26	12.8	55	0.1	24	8.8	215	2.3	9.7	1.4
L-Z29	516850	6079825	3.7	26.8	18.9	78	0.3	32.9	13	192	3.73	20	3.4
L-Z30	516848	7079884	1.1	7.6	7	31	<0.1	9.7	3.6	101	1.91	5.5	1.2
L-Z31	516849	7079920	0.9	25.8	10.8	47	0.1	22.3	8.4	148	2.05	8.6	0.8
L-Z32	516846	7079969	1.6	11.3	9.8	44	<0.1	13.4	5.6	127	2.08	8.8	1.7
L-Z33	516854	7080021	1.4	20.1	12.1	45	<0.1	19.1	6.9	125	2.32	10	1.2
L-Z34	516846	7080081	2.5	13.1	23.5	81	0.1	18.1	14.5	842	2.92	12.8	9.4
L-Z35	516850	7080131	1.6	14.7	10.7	55	<0.1	16.4	6.7	183	2.26	8.9	1.1
L-Z37	516850	7080225	1.6	6.9	8.1	32	<0.1	7.8	2.6	62	1.04	3.9	2.5
L-Z38	516853	7080282	1.9	44.4	20.3	95	0.2	36.2	12.4	307	3.42	17.6	1.2
L-Z39	516861	7080329	2	23.3	16.6	90	0.3	27.3	11.6	291	3.22	15.7	0.6
L-Z40	516850	7080375	1.9	35.8	22.1	120	0.4	30.1	11.9	1296	2.86	14.3	2

Waypoint	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)
L-Z05	0.8	4.8	14	<0.1	0.3	0.2	33	0.18	0.026	16	18	0.36	231
L-Z06	1	4.2	10	<0.1	0.3	0.2	32	0.1	0.039	19	20	0.36	146
L-Z07	5.9	3.9	13	0.2	0.3	0.2	28	0.16	0.041	14	18	0.39	248
L-Z08	0.6	2.9	5	<0.1	0.4	0.3	70	0.04	0.017	8	12	0.11	80
L-Z09	<0.5	5	7	0.2	0.5	0.2	37	0.06	0.024	13	22	0.35	188
L-Z10	<0.5	1.3	9	0.1	<0.1	0.1	13	0.1	0.012	12	<1	0.07	117
L-Z11	0.7	3	28	0.3	0.3	0.2	28	0.42	0.053	19	25	0.45	351
L-Z12	0.9	3	23	0.2	0.4	0.3	42	0.34	0.058	18	25	0.47	320
L-Z13	<0.5	7.2	37	<0.1	0.3	0.2	99	0.24	0.036	13	40	1	214
L-Z14	<0.5	4.7	5	<0.1	0.3	0.2	29	0.05	0.013	12	18	0.28	155
L-Z15	<0.5	4.2	5	0.1	0.5	0.2	41	0.05	0.019	10	23	0.3	101
L-Z16	<0.5	4.4	22	0.1	0.5	0.4	43	0.28	0.039	13	22	0.43	238
L-Z17	<0.5	1.4	7	0.2	0.2	0.1	18	0.06	0.014	9	7	0.07	118
L-Z18	<0.5	4.4	20	0.3	0.4	0.3	34	0.3	0.046	21	21	0.36	357
L-Z19	<0.5	4.5	9	<0.1	0.6	0.2	46	0.08	0.022	12	26	0.41	184
L-Z20	<0.5	3.2	25	0.5	0.4	0.3	28	0.28	0.045	25	19	0.28	556
L-Z21	15.4	4.1	7	<0.1	0.6	0.2	45	0.06	0.02	10	29	0.49	176
L-Z22	1.5	1.1	3	<0.1	0.2	0.4	46	0.03	0.019	6	8	0.09	63
L-Z23	<0.5	2.7	3	<0.1	0.6	0.3	60	0.02	0.024	9	11	0.09	55
L-Z24	1.4	4.4	8	0.2	0.7	0.2	38	0.06	0.033	11	25	0.36	191
L-Z25	1	3.6	9	<0.1	0.3	0.3	54	0.11	0.02	12	21	0.27	214
L-Z26	1.5	2.5	27	0.3	0.5	0.3	30	0.68	0.069	21	17	0.3	259
L-Z27	<0.5	3.5	6	<0.1	0.3	0.4	49	0.05	0.027	12	16	0.17	146
L-Z28	1.9	4.5	11	<0.1	0.6	0.2	37	0.11	0.039	15	23	0.37	300
L-Z29	<0.5	5	6	0.2	0.5	0.3	61	0.06	0.042	9	36	0.47	187
L-Z30	<0.5	2.3	5	<0.1	0.2	0.2	39	0.05	0.017	10	13	0.19	149
L-Z31	1.1	4.6	7	<0.1	0.5	0.2	30	0.05	0.019	15	19	0.31	362
L-Z32	1	3.8	6	<0.1	0.4	0.2	36	0.04	0.02	14	17	0.24	155
L-Z33	1.3	5.1	6	<0.1	0.5	0.2	39	0.05	0.014	15	21	0.28	135
L-Z34	2.3	6.1	18	0.3	0.3	0.9	49	0.37	0.034	12	26	0.38	262
L-Z35	<0.5	5.2	12	0.1	0.4	0.2	31	0.15	0.061	14	10	0.34	158
L-Z37	<0.5	3.1	11	<0.1	0.2	0.1	26	0.19	0.015	15	13	0.21	163
L-Z38	2.4	6.5	10	0.3	0.8	0.3	51	0.05	0.031	19	31	0.38	1211
L-Z39	0.9	3.7	8	0.4	0.6	0.3	59	0.05	0.044	12	30	0.37	531
L-Z40	0.7	2.2	46	0.7	0.7	0.3	45	0.73	0.057	9	19	0.29	868

Waypoint	Ti (%)	Bi (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Hg (ppm)	Sc (ppm)	Ti (ppm)	S (%)	Ga (ppm)	Se (ppm)	Te (ppm)
L-Z05	0.044	<20	0.98	0.007	0.06	0.8	0.02	1.7	0.2	<0.05	4	<0.5	<0.2
L-Z06	0.041	<20	1.12	0.007	0.06	0.2	0.04	2	0.2	<0.05	4	<0.5	<0.2
L-Z07	0.041	<20	1.08	0.012	0.07	0.1	0.02	1.8	0.2	<0.05	4	<0.5	<0.2
L-Z08	0.089	<20	0.83	0.007	0.02	<0.1	0.01	0.8	0.1	<0.05	10	<0.5	<0.2
L-Z09	0.031	<20	1.3	0.007	0.04	0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
L-Z10	0.014	<20	0.39	0.006	0.03	0.1	<0.01	0.6	0.1	<0.05	3	<0.5	<0.2
L-Z11	0.029	<20	1.34	0.012	0.1	0.3	0.1	2.5	0.3	0.08	5	<0.5	<0.2
L-Z12	0.034	<20	1.35	0.009	0.1	0.2	0.08	2.4	0.2	0.07	5	0.7	<0.2
L-Z13	0.14	<20	3.2	0.018	0.09	0.1	0.02	2.7	0.2	<0.05	16	<0.5	<0.2
L-Z14	0.03	<20	1.34	0.003	0.06	0.1	0.01	1.7	0.1	<0.05	4	<0.5	0.3
L-Z15	0.035	<20	1.59	0.003	0.04	0.2	0.02	1.7	0.1	<0.05	5	<0.5	<0.2
L-Z16	0.055	<20	1.12	0.009	0.1	0.3	0.04	1.8	0.2	<0.05	5	0.6	0.2
L-Z17	0.014	<20	0.41	0.004	0.04	<0.1	0.02	0.6	<0.1	<0.05	2	<0.5	0.2
L-Z18	0.042	<20	1.16	0.013	0.05	0.4	0.03	2.2	0.2	<0.05	5	<0.5	<0.2
L-Z19	0.04	<20	1.65	0.007	0.05	0.1	0.02	2.3	0.2	<0.05	5	<0.5	0.2
L-Z20	0.02	<20	1.25	0.013	0.06	<0.1	0.04	2.5	0.2	<0.05	5	0.5	<0.2
L-Z21	0.053	<20	1.69	0.006	0.04	0.2	0.06	2.5	0.2	<0.05	6	0.6	<0.2
L-Z22	0.093	<20	0.63	0.008	0.02	<0.1	0.02	0.5	<0.1	<0.05	8	<0.5	<0.2
L-Z23	0.044	<20	0.74	0.003	0.02	0.1	0.02	0.9	<0.1	<0.05	7	<0.5	0.3
L-Z24	0.024	<20	1.54	0.004	0.05	0.1	0.05	1.8	0.1	<0.05	3	<0.5	<0.2
L-Z25	0.059	<20	1.38	0.006	0.03	<0.1	<0.01	1.6	0.1	<0.05	7	<0.5	<0.2
L-Z26	0.026	<20	1.16	0.009	0.07	0.4	0.05	1.9	0.2	0.07	4	0.8	<0.2
L-Z27	0.018	<20	1.22	0.002	0.03	0.1	<0.01	1.3	0.1	<0.05	5	<0.5	<0.2
L-Z28	0.027	<20	1.25	0.005	0.04	0.1	0.03	2	<0.1	<0.05	3	0.6	<0.2
L-Z29	0.057	<20	2.49	0.006	0.12	0.2	0.02	2.5	0.2	<0.05	6	<0.5	<0.2
L-Z30	0.022	<20	0.88	0.003	0.02	0.2	<0.01	1	<0.1	<0.05	5	<0.5	<0.2
L-Z31	0.022	<20	1.12	0.004	0.03	0.1	0.04	1.9	<0.1	<0.05	3	<0.5	<0.2
L-Z32	0.019	<20	0.99	0.003	0.02	<0.1	0.02	1.3	<0.1	<0.05	3	<0.5	<0.2
L-Z33	0.019	<20	1.27	0.003	0.03	<0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
L-Z34	0.04	<20	1.45	0.014	0.06	0.4	0.01	2	0.3	<0.05	5	<0.5	<0.2
L-Z35	0.032	<20	1	0.005	0.05	0.4	0.03	1.3	0.1	<0.05	3	<0.5	<0.2
L-Z37	0.016	<20	0.73	0.005	0.05	<0.1	<0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
L-Z38	0.023	<20	1.67	0.004	0.05	<0.1	0.2	4.5	0.1	<0.05	4	1	<0.2
L-Z39	0.019	<20	1.96	0.004	0.05	0.1	0.04	2.5	0.1	<0.05	5	<0.5	<0.2
L-Z40	0.009	<20	1.32	0.006	0.04	<0.1	0.14	2.4	0.1	<0.05	4	1.1	<0.2



**Appendix IV- 2010 Assay Certificates- Soil- WH10000504 & WH10000565**



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

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**Client:** Keno Hill Exploration

PO Box 15  
Keno City YT Y0B 1M0 Canada

Submitted By: Lauren Blackburn  
Receiving Lab: Canada-Whitehorse  
Received: September 22, 2010  
Report Date: October 12, 2010  
Page: 1 of 12

## CERTIFICATE OF ANALYSIS

WHI10000504.1

### CLIENT JOB INFORMATION

Project: Roop L  
Shipment ID:  
P.O. Number  
Number of Samples: 320

### SAMPLE DISPOSAL

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

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

Invoice To: Keno Hill Exploration  
PO Box 15  
Keno City YT Y0B 1M0  
Canada

CC: Keno Hill

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			WHI
RJSV	320	Saving all or part of Soil Reject			WHI
1DX1	320	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

### ADDITIONAL COMMENTS



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



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Project: Roop L  
 Report Date: October 12, 2010

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
LA01	Soil			0.6	10.7	7.1	45	<0.1	11.8	3.6	103	1.11	3.7	3.3	1.7	2.7	13	<0.1	0.2	0.1	19	0.16	0.034
LA02	Soil			1.0	18.0	12.5	56	0.1	15.1	4.9	137	1.77	6.5	6.1	2.5	2.5	14	0.2	0.3	0.3	28	0.17	0.049
LA03	Soil			1.2	11.5	11.6	41	<0.1	12.1	4.8	131	2.11	7.6	1.0	1.0	4.0	5	<0.1	0.4	0.2	35	0.04	0.019
LA05	Soil			1.2	11.2	9.8	56	<0.1	14.4	5.9	156	1.91	8.3	2.2	1.5	4.2	12	0.1	0.4	0.2	30	0.12	0.036
LA06	Soil			1.0	5.6	10.2	24	<0.1	6.0	2.0	70	1.92	6.8	0.4	<0.5	2.6	4	<0.1	0.4	0.2	52	0.03	0.015
LA08	Soil			0.9	13.6	10.3	30	0.3	7.8	2.7	141	0.98	3.1	3.6	0.7	0.8	10	0.2	0.1	0.2	27	0.10	0.034
LA09	Soil			1.3	11.8	17.9	57	0.2	13.5	6.1	169	2.28	7.3	1.7	<0.5	3.5	8	<0.1	0.2	0.4	47	0.08	0.018
LA11	Soil			1.7	15.8	14.0	63	0.2	19.0	13.3	331	1.83	7.9	7.6	0.9	5.1	17	0.2	0.3	0.3	29	0.24	0.052
LA12	Soil			1.5	20.3	13.3	67	0.2	20.6	9.7	261	1.81	6.8	10.6	0.8	3.7	19	0.2	0.2	0.3	32	0.24	0.046
LA14	Soil			4.3	40.1	20.6	81	0.3	30.5	14.7	879	3.30	16.9	19.4	3.3	5.1	23	0.2	0.5	0.6	36	0.35	0.058
LA15	Soil			1.3	25.4	10.9	58	0.3	24.9	8.5	186	1.70	5.9	21.0	1.9	2.2	27	0.2	0.4	0.3	23	0.42	0.060
LA17	Soil			1.4	14.0	12.0	51	<0.1	16.9	6.7	144	2.20	7.7	0.9	<0.5	3.4	8	<0.1	0.4	0.2	42	0.08	0.020
LA18	Soil			2.0	13.6	13.1	45	<0.1	14.7	5.6	151	2.27	9.3	0.6	<0.5	4.2	6	0.1	0.5	0.2	47	0.05	0.017
LA20	Soil			1.3	30.1	14.1	52	<0.1	31.5	9.2	176	2.17	8.5	1.2	0.6	4.2	10	<0.1	0.5	0.2	30	0.10	0.027
LA21	Soil			1.2	26.1	14.7	82	0.1	31.0	9.9	319	2.57	7.9	11.5	2.0	7.5	24	<0.1	0.5	0.2	29	0.30	0.042
LA23	Soil			0.9	44.2	21.6	74	<0.1	37.6	12.6	271	2.48	10.0	6.7	1.6	7.1	11	0.1	0.5	0.2	39	0.11	0.017
LA24	Soil			1.7	42.3	51.5	95	<0.1	49.7	17.4	204	2.88	12.6	0.6	<0.5	5.7	9	0.1	0.5	0.3	39	0.09	0.021
LA26	Soil			2.4	14.7	13.5	47	0.2	21.0	10.5	190	2.40	9.6	3.1	<0.5	5.3	13	<0.1	0.4	0.2	46	0.15	0.029
LA27	Soil			1.4	26.4	11.1	57	<0.1	21.9	7.3	163	2.28	9.5	2.6	1.6	5.2	16	<0.1	0.6	0.2	36	0.17	0.041
LA29	Soil			1.0	15.6	3.4	49	0.2	8.6	1.5	141	0.26	0.9	13.8	<0.5	0.7	37	0.7	0.2	<0.1	<2	0.67	0.038
LA30	Soil			3.5	49.3	6.5	29	0.3	23.1	23.5	1790	1.53	10.1	73.7	3.0	2.0	96	1.2	1.1	0.2	10	2.95	0.116
LA32	Soil			0.2	3.4	1.4	9	<0.1	3.1	0.4	27	0.12	0.8	0.9	<0.5	0.1	34	<0.1	0.1	<0.1	<2	0.84	0.032
LA33	Soil			1.7	16.7	15.3	56	<0.1	24.1	8.6	157	2.85	11.9	1.0	1.0	4.4	6	0.1	0.4	0.2	49	0.04	0.031
LA35	Soil			1.4	18.7	14.1	67	<0.1	25.3	12.7	214	2.69	10.4	1.5	1.2	5.0	6	0.1	0.5	0.3	37	0.06	0.017
LA36	Soil			2.7	23.7	12.7	78	0.1	16.2	8.1	249	2.42	9.2	15.1	1.0	4.4	18	0.5	0.5	1.2	41	0.23	0.036
LA38	Soil			5.0	33.1	4.4	34	0.2	13.4	16.7	2436	1.18	3.7	49.1	0.7	1.0	90	1.5	0.9	<0.1	4	2.14	0.109
LA39	Soil			9.1	32.7	1.8	12	0.1	12.4	15.5	981	1.20	5.7	60.0	<0.5	0.7	91	0.8	1.1	<0.1	7	2.25	0.089
LA41	Soil			1.9	28.0	14.5	91	0.2	32.0	11.9	252	3.20	15.3	0.7	0.9	4.6	11	0.3	0.9	0.2	55	0.07	0.041
LA42	Soil			3.0	36.1	27.6	124	0.2	28.0	11.8	290	4.25	23.9	0.7	23.9	4.8	11	0.4	1.5	0.3	45	0.05	0.053
LA44	Soil			0.6	23.0	17.2	100	0.1	23.2	6.7	202	2.03	5.4	2.7	0.8	4.2	33	0.3	0.5	0.2	22	0.42	0.056

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Project: Roop L  
 Report Date: October 12, 2010

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05		1	0.5	0.2
LA01	Soil			14	15	0.30	228	0.030	<20	0.84	0.008	0.05	0.1	0.04	1.5	0.2	<0.05	3	<0.5	<0.2
LA02	Soil			14	20	0.34	222	0.033	<20	1.03	0.010	0.06	0.1	0.05	1.7	0.2	<0.05	4	0.5	<0.2
LA03	Soil			13	19	0.25	82	0.036	<20	1.07	0.005	0.04	0.2	0.02	1.4	0.1	<0.05	4	<0.5	<0.2
LA05	Soil			14	18	0.34	130	0.039	<20	0.92	0.009	0.06	0.1	0.05	1.5	0.2	<0.05	4	<0.5	<0.2
LA06	Soil			11	15	0.12	49	0.028	<20	0.92	0.004	0.02	0.1	0.03	1.0	<0.1	<0.05	5	<0.5	<0.2
LA08	Soil			11	13	0.17	155	0.023	<20	0.66	0.011	0.05	0.1	0.05	1.1	0.2	<0.05	4	<0.5	<0.2
LA09	Soil			12	23	0.34	121	0.037	<20	1.33	0.008	0.05	0.1	0.03	1.8	0.2	<0.05	6	<0.5	<0.2
LA11	Soil			17	19	0.39	271	0.041	<20	1.08	0.014	0.10	0.4	0.04	2.1	0.2	<0.05	4	<0.5	<0.2
LA12	Soil			20	21	0.41	249	0.042	<20	1.22	0.012	0.08	0.4	0.04	2.3	0.2	<0.05	4	<0.5	<0.2
LA14	Soil			23	25	0.46	291	0.030	<20	1.50	0.012	0.09	0.2	0.08	2.7	0.3	<0.05	5	<0.5	<0.2
LA15	Soil			25	22	0.34	348	0.024	<20	1.24	0.015	0.07	0.1	0.07	2.4	0.2	<0.05	4	<0.5	<0.2
LA17	Soil			12	23	0.39	194	0.029	<20	1.46	0.005	0.04	0.1	0.02	2.0	0.2	<0.05	4	<0.5	<0.2
LA18	Soil			13	22	0.32	163	0.021	<20	1.56	0.003	0.03	<0.1	<0.01	1.8	0.1	<0.05	4	<0.5	<0.2
LA20	Soil			12	24	0.41	307	0.032	<20	1.35	0.010	0.07	0.1	0.01	2.2	0.1	<0.05	4	<0.5	<0.2
LA21	Soil			19	19	0.55	397	0.044	<20	1.47	0.020	0.15	0.2	0.06	2.8	0.2	<0.05	4	<0.5	<0.2
LA23	Soil			21	35	0.59	450	0.071	<20	1.80	0.016	0.08	0.2	0.06	5.7	0.2	<0.05	5	0.7	<0.2
LA24	Soil			14	35	0.57	523	0.055	<20	2.32	0.010	0.07	0.2	0.03	3.4	0.2	<0.05	5	<0.5	<0.2
LA26	Soil			15	24	0.37	443	0.025	<20	1.60	0.006	0.04	0.1	0.02	2.2	0.1	<0.05	5	<0.5	<0.2
LA27	Soil			16	23	0.39	352	0.030	<20	1.26	0.010	0.06	0.2	0.04	2.6	0.1	<0.05	4	<0.5	<0.2
LA29	Soil			7	6	0.04	461	0.006	<20	0.19	0.026	<0.01	<0.1	0.06	0.8	<0.1	0.15	<1	<0.5	<0.2
LA30	Soil			26	9	0.11	814	0.008	<20	0.70	0.021	0.02	0.2	0.14	1.7	0.2	0.22	1	1.7	<0.2
LA32	Soil			<1	5	0.07	61	0.004	<20	0.10	0.032	0.02	<0.1	0.05	0.4	<0.1	0.11	<1	<0.5	<0.2
LA33	Soil			12	24	0.34	173	0.036	<20	1.96	0.005	0.04	0.3	0.03	2.3	0.1	<0.05	6	<0.5	<0.2
LA35	Soil			13	27	0.46	151	0.046	<20	1.91	0.007	0.06	0.2	0.02	2.3	0.1	<0.05	5	<0.5	<0.2
LA36	Soil			17	23	0.34	244	0.032	<20	1.30	0.010	0.06	0.4	0.04	2.4	0.2	<0.05	5	<0.5	<0.2
LA38	Soil			13	9	0.12	724	0.005	<20	0.46	0.027	0.02	<0.1	0.11	1.3	0.2	0.36	<1	<0.5	<0.2
LA39	Soil			7	6	0.09	583	0.006	<20	0.44	0.027	0.02	<0.1	0.08	1.3	<0.1	0.22	<1	1.1	<0.2
LA41	Soil			15	32	0.46	571	0.025	<20	2.05	0.005	0.06	0.1	0.07	3.2	0.1	<0.05	5	<0.5	<0.2
LA42	Soil			16	24	0.30	717	0.013	<20	1.40	0.005	0.04	0.1	0.12	2.5	0.1	<0.05	4	0.6	0.3
LA44	Soil			15	20	0.40	395	0.010	<20	1.05	0.010	0.05	<0.1	0.06	2.2	<0.1	<0.05	3	0.7	<0.2

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Project: Roop L  
 Report Date: October 12, 2010

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
LA45	Soil	0.7	10.9	12.5	80	<0.1	17.8	8.8	314	2.00	7.3	0.7	<0.5	5.2	11	0.2	0.5	0.1	14	0.10	0.049		
L-B-2	Soil	0.7	15.4	9.3	65	0.3	15.8	5.2	184	1.44	3.8	12.9	1.5	3.5	27	0.3	0.3	0.3	22	0.35	0.040		
L-B-3	Soil	2.9	27.2	15.3	81	0.2	20.4	10.0	351	2.46	9.1	18.0	2.2	6.3	24	0.2	0.5	0.3	39	0.33	0.062		
L-B-5	Soil	1.3	27.5	17.3	63	0.2	19.3	8.2	426	1.93	9.2	6.8	0.9	1.4	17	0.2	0.5	0.3	26	0.20	0.076		
L-B-6	Soil	2.5	20.4	14.6	58	0.1	16.1	6.7	257	2.07	8.8	9.0	1.2	4.3	12	0.1	0.3	0.4	34	0.12	0.040		
L-B-8	Soil	1.7	27.8	15.9	72	0.2	24.1	13.7	366	2.12	7.6	11.3	0.6	3.4	25	0.2	0.3	0.4	34	0.41	0.053		
L-B-9	Soil	1.7	33.0	18.1	89	0.3	26.2	13.1	575	2.13	9.3	21.8	3.2	3.9	32	0.4	0.4	0.5	30	0.67	0.066		
L-B-11	Soil	2.1	27.0	21.7	70	0.2	24.2	10.3	356	2.10	8.6	23.9	1.9	4.9	21	0.2	0.4	0.4	32	0.34	0.046		
L-B-12	Soil	3.2	35.6	17.7	75	0.4	24.1	10.9	611	1.94	8.6	28.6	1.4	0.7	26	0.4	0.4	0.4	30	0.53	0.098		
L-B-14	Soil	3.4	52.1	35.2	103	0.3	37.4	12.2	330	3.43	15.6	15.4	2.3	9.3	15	0.4	0.4	1.4	53	0.14	0.065		
L-B-15	Soil	2.5	49.3	21.3	91	0.2	43.5	15.9	506	2.72	18.1	16.4	2.8	6.1	33	0.1	0.4	0.8	35	0.69	0.047		
L-B-17	Soil	1.2	29.2	11.9	63	0.1	23.5	7.0	178	2.03	8.8	4.9	1.0	4.1	11	0.1	0.4	0.2	33	0.13	0.043		
L-B-18	Soil	1.9	35.1	16.1	46	0.4	24.0	7.8	288	1.72	6.7	32.7	2.5	1.3	38	0.3	0.4	0.3	23	0.78	0.096		
L-B-20	Soil	3.0	14.5	15.2	47	<0.1	17.5	6.3	124	2.88	10.8	2.0	0.6	5.3	5	<0.1	0.4	0.3	54	0.04	0.026		
L-B-21	Soil	1.2	30.8	15.1	62	<0.1	36.3	10.9	196	2.72	13.3	0.7	1.2	4.7	10	0.1	0.4	0.2	42	0.10	0.027		
L-B-23	Soil	2.2	14.3	16.4	61	<0.1	18.3	7.0	125	2.58	12.0	3.3	0.9	4.4	9	0.1	0.3	0.6	50	0.09	0.025		
L-B-24	Soil	2.5	10.3	7.7	45	<0.1	13.3	4.4	104	1.40	4.4	6.7	0.7	2.8	14	<0.1	0.2	0.2	25	0.24	0.027		
L-B-26	Soil	1.5	27.4	11.5	72	0.2	23.3	9.5	265	1.92	8.7	12.4	1.5	3.4	28	0.2	0.3	0.4	32	0.63	0.053		
L-B-27	Soil	1.2	22.3	9.9	48	<0.1	25.1	6.8	138	2.13	8.7	0.6	0.7	4.1	7	0.1	0.4	0.2	33	0.06	0.016		
L-B-29	Soil	6.8	17.8	11.4	89	<0.1	18.7	12.5	1114	3.32	24.8	5.2	1.4	6.8	22	0.3	0.3	0.6	56	0.37	0.032		
L-B-30	Soil	0.5	3.8	5.5	13	<0.1	3.5	0.7	24	0.36	1.1	0.8	<0.5	0.5	4	<0.1	<0.1	0.1	17	0.05	0.012		
L-B-32	Soil	1.9	37.1	18.1	59	<0.1	27.0	9.8	155	2.93	11.2	2.7	1.7	5.2	7	0.2	0.5	0.4	38	0.06	0.026		
L-B-33	Soil	1.7	20.6	14.1	60	<0.1	23.5	8.6	165	2.56	11.6	2.0	<0.5	4.0	7	0.1	0.4	0.2	48	0.06	0.025		
L-B-35	Soil	1.5	29.6	12.5	50	<0.1	22.9	6.7	158	1.98	7.8	4.0	1.6	3.7	12	0.1	0.5	0.2	29	0.14	0.035		
L-B-36	Soil	2.9	29.1	13.0	69	<0.1	23.6	9.1	272	2.50	13.2	8.5	1.5	2.5	14	0.1	0.7	0.3	37	0.16	0.042		
L-B-38	Soil	4.7	25.2	20.1	43	0.2	15.6	5.4	107	2.49	9.4	15.7	0.8	4.0	6	<0.1	0.4	0.2	46	0.05	0.031		
L-B-39	Soil	6.5	12.9	13.3	54	<0.1	15.6	7.2	204	3.29	18.5	3.2	0.6	3.3	4	<0.1	0.7	0.2	73	0.04	0.040		
L-B-41	Soil	7.1	46.6	29.7	113	0.5	33.5	18.2	579	3.14	63.3	281.7	2.7	3.5	39	0.1	0.9	0.7	44	0.76	0.084		
L-B-44	Soil	4.1	31.0	52.6	122	0.4	34.9	12.9	901	3.25	16.9	1.1	2.1	1.9	49	0.8	0.8	0.4	36	0.72	0.072		
L-C02	Soil	3.1	32.3	16.1	62	0.3	22.8	7.0	171	2.49	8.7	22.3	2.2	4.6	21	<0.1	0.4	0.5	31	0.26	0.066		

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Project: Roop L  
 Report Date: October 12, 2010

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
LA45	Soil	16	13	0.26	251	0.008	<20	0.67	0.003	0.03	<0.1	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
L-B-2	Soil	20	20	0.39	348	0.034	<20	1.10	0.013	0.07	0.2	0.04	2.2	0.2	<0.05	4	<0.5	<0.2
L-B-3	Soil	27	23	0.52	311	0.053	<20	1.42	0.012	0.13	0.2	0.06	2.9	0.2	<0.05	5	<0.5	<0.2
L-B-5	Soil	14	19	0.33	311	0.032	<20	0.99	0.014	0.11	0.2	0.07	1.8	0.2	<0.05	3	<0.5	<0.2
L-B-6	Soil	17	22	0.42	169	0.049	<20	1.22	0.011	0.08	0.1	0.06	2.3	0.2	<0.05	4	<0.5	<0.2
L-B-8	Soil	21	24	0.47	209	0.047	<20	1.31	0.015	0.08	0.2	0.06	2.6	0.2	<0.05	5	0.7	<0.2
L-B-9	Soil	21	21	0.44	345	0.040	<20	1.22	0.012	0.13	0.3	0.06	2.4	0.3	<0.05	4	0.5	<0.2
L-B-11	Soil	24	23	0.42	355	0.041	<20	1.29	0.009	0.08	0.3	0.07	2.2	0.3	<0.05	4	<0.5	<0.2
L-B-12	Soil	33	18	0.30	395	0.025	<20	1.14	0.010	0.08	0.3	0.13	1.1	0.2	0.06	4	0.6	<0.2
L-B-14	Soil	30	31	0.53	186	0.059	<20	2.04	0.013	0.14	0.4	0.06	3.2	0.3	<0.05	8	<0.5	0.2
L-B-15	Soil	22	31	0.52	320	0.034	<20	1.61	0.015	0.13	0.3	0.06	2.5	0.3	<0.05	5	0.6	<0.2
L-B-17	Soil	15	21	0.40	147	0.035	<20	1.23	0.006	0.06	<0.1	0.03	1.8	0.2	<0.05	4	<0.5	<0.2
L-B-18	Soil	26	22	0.25	563	0.019	<20	1.21	0.015	0.09	0.1	0.12	1.6	0.2	0.12	4	0.8	<0.2
L-B-20	Soil	11	25	0.33	130	0.045	<20	1.87	0.006	0.07	0.1	0.03	1.9	0.2	<0.05	7	<0.5	<0.2
L-B-21	Soil	12	29	0.48	302	0.044	<20	1.60	0.008	0.06	0.3	0.02	2.3	0.2	<0.05	5	<0.5	<0.2
L-B-23	Soil	13	26	0.39	165	0.029	<20	1.64	0.006	0.06	0.2	0.02	2.1	0.3	<0.05	6	<0.5	<0.2
L-B-24	Soil	13	19	0.33	145	0.037	<20	0.97	0.009	0.06	0.2	0.03	1.5	0.2	<0.05	4	<0.5	<0.2
L-B-26	Soil	18	20	0.44	219	0.046	<20	1.18	0.016	0.10	0.8	0.04	2.0	0.2	<0.05	4	<0.5	0.2
L-B-27	Soil	12	23	0.36	248	0.028	<20	1.27	0.004	0.05	0.2	0.02	1.7	0.1	<0.05	4	<0.5	<0.2
L-B-29	Soil	14	27	0.41	229	0.059	<20	1.19	0.009	0.06	0.1	0.02	1.9	0.2	<0.05	5	<0.5	<0.2
L-B-30	Soil	13	7	0.03	57	0.009	<20	0.40	0.003	0.02	<0.1	0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
L-B-32	Soil	13	27	0.41	140	0.039	<20	1.89	0.005	0.07	0.2	0.03	2.2	0.2	<0.05	5	<0.5	<0.2
L-B-33	Soil	12	25	0.41	170	0.039	<20	1.64	0.004	0.05	0.2	0.03	2.0	0.2	<0.05	6	<0.5	<0.2
L-B-35	Soil	12	19	0.35	225	0.025	<20	1.18	0.007	0.05	0.2	0.03	1.7	0.1	<0.05	3	<0.5	<0.2
L-B-36	Soil	14	22	0.37	329	0.026	<20	1.28	0.007	0.04	0.1	0.05	1.6	0.1	<0.05	4	<0.5	<0.2
L-B-38	Soil	14	21	0.24	212	0.020	<20	1.29	0.004	0.03	0.2	0.03	1.9	0.1	<0.05	5	<0.5	<0.2
L-B-39	Soil	12	22	0.45	155	0.076	<20	1.45	0.004	0.03	0.2	<0.01	2.0	0.2	<0.05	8	<0.5	<0.2
L-B-41	Soil	32	33	0.50	668	0.019	<20	2.01	0.011	0.09	0.2	0.10	3.4	0.3	<0.05	6	0.8	<0.2
L-B-44	Soil	9	40	0.20	940	0.005	<20	0.99	0.005	0.06	<0.1	0.12	2.1	0.1	<0.05	3	0.6	<0.2
L-C02	Soil	22	25	0.44	321	0.041	<20	1.41	0.010	0.10	0.4	0.07	2.5	0.3	<0.05	5	0.6	<0.2

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Page: 4 of 12 Part 1

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Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-C03	Soil	2.0	36.0	16.2	93	0.2	32.3	12.4	546	2.41	9.6	8.7	1.9	6.6	28	0.3	0.4	0.3	34	0.44	0.060
L-C05	Soil	2.7	54.9	15.0	61	0.2	17.7	7.5	398	4.35	10.0	16.5	0.8	1.4	9	<0.1	0.4	0.5	51	0.09	0.115
L-C06	Soil	3.3	48.2	22.1	90	0.4	24.7	13.2	399	4.07	12.3	15.9	2.3	11.9	22	0.3	0.3	3.4	73	0.27	0.070
L-C08	Soil	6.8	53.0	68.3	70	0.4	51.2	10.9	1489	2.28	8.3	56.9	4.0	1.9	22	0.4	0.5	2.0	27	0.15	0.179
L-C09	Soil	10.4	26.8	14.7	92	0.3	16.1	11.2	633	4.31	9.7	9.9	0.6	10.6	23	0.3	0.3	1.0	81	0.30	0.094
L-C11	Soil	3.2	55.2	22.2	89	0.2	42.3	17.0	221	3.08	15.6	7.7	3.2	7.9	8	0.1	0.4	0.5	48	0.07	0.019
L-C12	Soil	3.5	81.2	52.2	161	0.5	55.2	22.8	503	3.96	20.7	8.5	4.8	10.3	17	0.5	0.4	1.5	61	0.22	0.059
L-C14	Soil	2.3	63.4	26.9	96	0.4	48.2	17.4	537	3.32	19.8	31.4	2.3	9.2	36	0.2	0.5	1.1	44	0.61	0.054
L-C15	Soil	1.0	29.8	8.4	52	0.2	20.3	5.1	144	1.47	7.6	6.6	1.0	2.1	21	0.3	0.3	0.2	21	0.33	0.036
L-C17	Soil	1.2	26.4	14.2	63	<0.1	24.6	7.8	155	2.48	9.9	1.7	8.8	5.2	5	<0.1	0.3	0.2	27	0.05	0.013
L-C18	Soil	2.9	35.9	21.3	80	0.2	27.3	8.7	217	2.63	18.6	26.6	10.3	5.1	23	0.2	0.5	0.6	40	0.52	0.028
L-C20	Soil	4.4	24.6	18.0	71	<0.1	29.7	10.2	208	3.13	18.0	5.1	1.4	4.3	11	<0.1	0.6	0.3	51	0.15	0.024
L-C21	Soil	2.0	15.5	8.7	45	<0.1	18.6	5.9	129	1.92	9.6	1.2	<0.5	1.0	5	<0.1	0.3	0.2	40	0.05	0.022
L-C23	Soil	5.9	15.3	5.1	34	0.1	13.6	3.6	69	1.20	7.3	11.1	<0.5	1.2	16	<0.1	0.4	0.2	23	0.30	0.032
L-C24	Soil	3.3	26.2	11.1	75	<0.1	23.3	8.0	186	2.16	12.9	4.0	0.9	3.7	11	0.1	0.4	0.3	42	0.16	0.025
L-C26	Soil	1.5	21.0	15.1	67	0.1	25.3	8.5	159	2.72	12.9	0.5	<0.5	3.7	6	0.2	0.7	0.3	43	0.04	0.036
L-C27	Soil	4.0	14.4	11.0	48	0.2	15.7	6.9	140	1.83	7.9	10.8	<0.5	4.4	19	<0.1	0.3	0.5	35	0.28	0.026
L-C29	Soil	2.2	33.4	15.1	73	0.2	30.4	10.1	205	2.67	13.8	8.5	0.5	4.3	14	0.1	0.6	0.3	44	0.16	0.040
L-C30	Soil	3.2	24.9	15.1	66	0.2	24.3	9.4	275	2.15	13.6	7.9	0.7	3.2	14	0.3	0.5	0.3	41	0.20	0.048
L-C32	Soil	1.5	25.7	13.8	73	<0.1	25.1	8.1	162	2.59	12.7	1.3	1.2	5.8	7	<0.1	0.7	0.2	45	0.04	0.012
L-C33	Soil	1.2	31.5	12.7	51	<0.1	22.7	7.4	171	2.77	13.8	3.9	1.7	6.3	5	<0.1	0.8	0.2	41	0.03	0.018
L-C35	Soil	1.2	13.7	8.7	43	0.1	12.0	3.8	123	1.57	6.6	1.7	<0.5	3.3	5	<0.1	0.4	0.3	23	0.05	0.020
L-C36	Soil	0.7	9.6	8.6	15	0.3	5.9	1.6	31	0.65	2.6	0.8	<0.5	0.3	6	<0.1	0.1	0.2	22	0.05	0.016
L-C38	Soil	4.0	10.8	10.1	35	<0.1	15.5	4.8	97	2.16	11.2	1.9	<0.5	2.7	6	<0.1	0.5	0.3	51	0.07	0.017
L-C39	Soil	3.3	8.2	13.9	63	0.2	11.4	11.2	726	3.26	4.1	1.3	<0.5	3.2	11	0.1	0.2	0.2	87	0.15	0.047
L-C41	Soil	2.2	45.0	18.7	60	<0.1	34.5	15.2	196	3.02	16.5	11.0	1.5	8.8	8	0.1	0.9	0.3	45	0.06	0.032
L-C42	Soil	1.1	4.3	8.2	23	0.2	5.8	2.9	82	1.55	6.7	0.3	<0.5	2.2	5	<0.1	0.2	0.2	64	0.04	0.016
L-C44	Soil	3.1	20.1	15.7	16	0.5	14.8	9.4	260	1.46	4.8	74.4	<0.5	0.9	68	0.5	0.5	0.2	11	1.23	0.155
L-C45	Soil	0.9	11.4	10.8	39	0.2	14.5	7.0	456	1.81	6.2	0.7	<0.5	2.9	16	0.2	0.3	0.3	41	0.22	0.017
L-D24	Soil	3.0	31.6	16.6	86	0.3	30.8	12.7	202	3.12	21.7	5.5	1.0	3.3	14	0.2	0.6	0.8	65	0.26	0.032

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Page: 4 of 12 Part 2

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Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
L-C03	Soil			18	29	0.57	503	0.062	<20	1.42	0.021	0.21	0.3	0.04	2.5	0.3	<0.05	4	<0.5	<0.2
L-C05	Soil			13	39	0.71	106	0.131	<20	2.24	0.017	0.40	0.1	0.12	2.3	0.4	0.15	9	0.9	<0.2
L-C06	Soil			27	43	1.03	157	0.164	<20	2.36	0.028	0.35	1.8	0.03	3.5	0.7	<0.05	9	<0.5	<0.2
L-C08	Soil			14	76	0.38	157	0.072	<20	1.54	0.021	0.28	0.2	0.21	1.6	0.3	0.12	6	0.9	<0.2
L-C09	Soil			20	38	0.91	183	0.207	<20	2.50	0.045	0.50	0.2	0.08	3.1	0.6	<0.05	12	0.9	<0.2
L-C11	Soil			19	32	0.50	239	0.041	<20	2.12	0.005	0.08	0.2	0.05	2.5	0.2	<0.05	5	0.5	<0.2
L-C12	Soil			22	42	0.92	222	0.090	<20	2.37	0.014	0.14	1.1	0.03	3.9	0.4	<0.05	8	<0.5	<0.2
L-C14	Soil			38	34	0.65	458	0.051	<20	1.96	0.017	0.18	0.2	0.06	3.2	0.4	<0.05	6	<0.5	<0.2
L-C15	Soil			17	15	0.29	318	0.024	<20	0.78	0.009	0.05	0.4	0.02	1.1	0.2	<0.05	3	<0.5	<0.2
L-C17	Soil			12	25	0.41	175	0.038	<20	1.41	0.005	0.06	0.2	0.02	1.5	0.2	<0.05	4	<0.5	<0.2
L-C18	Soil			21	25	0.43	208	0.035	<20	1.48	0.016	0.08	0.4	0.03	2.1	0.2	<0.05	5	<0.5	<0.2
L-C20	Soil			13	33	0.53	192	0.052	<20	1.60	0.007	0.08	0.1	0.02	2.3	0.2	<0.05	6	<0.5	<0.2
L-C21	Soil			8	21	0.37	157	0.037	<20	1.10	0.004	0.05	0.2	0.02	1.4	0.1	<0.05	5	<0.5	<0.2
L-C23	Soil			12	16	0.19	138	0.014	<20	0.68	0.009	0.05	0.2	0.03	1.0	0.2	<0.05	3	<0.5	<0.2
L-C24	Soil			11	27	0.46	151	0.043	<20	1.27	0.009	0.08	0.2	<0.01	2.0	0.2	<0.05	5	<0.5	<0.2
L-C26	Soil			8	28	0.35	175	0.020	<20	1.82	0.004	0.04	0.2	0.04	1.9	0.1	<0.05	4	0.6	<0.2
L-C27	Soil			11	21	0.36	190	0.030	<20	1.14	0.010	0.07	0.2	0.04	1.8	0.1	<0.05	5	<0.5	<0.2
L-C29	Soil			14	31	0.56	264	0.049	<20	1.64	0.010	0.07	0.2	0.03	2.7	0.2	<0.05	5	<0.5	<0.2
L-C30	Soil			11	28	0.47	228	0.050	<20	1.39	0.011	0.07	1.1	0.02	2.1	0.2	<0.05	5	<0.5	<0.2
L-C32	Soil			14	28	0.38	360	0.022	<20	1.54	0.005	0.05	0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
L-C33	Soil			15	26	0.34	136	0.025	<20	1.40	0.004	0.03	0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
L-C35	Soil			10	11	0.20	109	0.015	<20	0.69	0.005	0.04	0.1	0.03	1.0	<0.1	<0.05	3	<0.5	<0.2
L-C36	Soil			10	10	0.10	130	0.010	<20	0.72	0.005	0.04	<0.1	0.01	0.7	0.1	<0.05	4	<0.5	<0.2
L-C38	Soil			10	20	0.26	115	0.035	<20	0.94	0.007	0.03	<0.1	0.02	1.2	0.1	<0.05	5	<0.5	<0.2
L-C39	Soil			8	26	0.47	243	0.214	<20	2.03	0.016	0.05	<0.1	0.01	1.8	0.2	<0.05	17	<0.5	<0.2
L-C41	Soil			14	30	0.43	227	0.034	<20	2.14	0.007	0.04	0.3	0.24	2.7	0.2	<0.05	5	<0.5	<0.2
L-C42	Soil			9	14	0.28	49	0.100	<20	0.89	0.009	0.03	0.2	0.02	1.0	<0.1	<0.05	10	<0.5	<0.2
L-C44	Soil			50	11	0.09	735	0.014	<20	1.20	0.024	0.03	0.1	0.12	1.1	0.1	0.18	2	1.6	<0.2
L-C45	Soil			11	16	0.17	478	0.012	<20	1.02	0.006	0.03	<0.1	0.01	1.3	0.1	<0.05	4	<0.5	<0.2
L-D24	Soil			17	31	0.37	135	0.057	<20	1.54	0.010	0.09	0.6	0.03	2.2	0.2	<0.05	8	<0.5	<0.2

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Project: Roop L  
 Report Date: October 12, 2010

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-D26	Soil	2.5	22.9	16.4	64	0.2	24.8	10.9	204	2.68	12.9	8.3	<0.5	3.9	13	<0.1	0.6	0.5	50	0.17	0.028
L-D27	Soil	3.0	18.9	16.6	66	0.1	27.4	13.4	202	3.17	16.8	2.7	6.7	4.0	8	<0.1	0.6	0.5	72	0.11	0.019
L-D-29	Soil	2.2	15.8	13.9	43	0.1	16.5	7.5	128	2.75	11.1	1.4	<0.5	3.5	8	<0.1	0.4	0.3	58	0.07	0.021
L-D-30	Soil	2.1	40.7	94.7	187	0.5	44.9	19.3	283	3.19	22.8	9.6	<0.5	8.5	14	0.7	0.7	0.5	49	0.14	0.023
L-D-32	Soil	1.3	37.1	19.8	92	0.2	40.0	16.7	522	2.83	16.2	1.8	<0.5	6.5	35	0.5	0.6	0.6	44	0.76	0.027
L-D-33	Soil	4.9	21.2	32.3	61	0.6	18.2	7.2	326	2.18	10.7	23.1	2.0	5.8	15	<0.1	0.3	4.8	49	0.22	0.023
L-D-35	Soil	2.9	58.3	24.5	84	0.4	46.3	21.0	293	3.47	13.2	19.0	<0.5	5.6	16	0.3	0.5	0.5	65	0.17	0.041
L-D-36	Soil	2.1	41.6	20.1	53	<0.1	31.9	11.6	150	2.94	14.3	4.2	<0.5	5.3	6	<0.1	0.5	0.3	37	0.06	0.043
L-D-38	Soil	2.2	17.2	14.8	47	<0.1	15.4	5.4	128	3.11	13.8	1.0	<0.5	3.4	7	<0.1	0.6	0.3	66	0.05	0.034
L-D-39	Soil	3.2	117.2	11.3	50	0.6	15.4	15.8	337	4.72	9.4	6.5	1.9	4.6	8	0.2	0.4	3.8	46	0.12	0.055
L-D-41	Soil	1.3	7.7	22.3	39	<0.1	8.3	2.9	97	1.30	8.2	3.1	<0.5	3.1	14	0.1	0.2	1.1	28	0.15	0.022
L-D-42	Soil	1.1	10.1	10.8	33	<0.1	9.9	4.1	87	2.07	7.0	0.8	<0.5	2.5	5	<0.1	0.4	0.3	49	0.05	0.012
L-D-44	Soil	1.1	21.8	10.9	56	<0.1	20.3	9.0	203	2.19	9.6	4.2	<0.5	5.3	11	<0.1	0.4	0.2	37	0.10	0.030
L-D-45	Soil	0.8	24.3	18.9	96	0.2	20.9	10.5	228	2.18	10.8	19.7	0.5	7.6	20	<0.1	0.4	1.2	36	0.21	0.060
L-M01	Soil	1.0	40.0	13.0	65	<0.1	39.7	14.7	191	2.56	9.4	0.8	<0.5	7.9	9	0.2	0.3	0.3	33	0.05	0.018
LE01	Soil	1.3	28.0	11.5	48	<0.1	23.3	7.5	134	2.21	7.8	0.9	3.4	5.2	7	0.1	0.3	0.2	38	0.05	0.024
LE02	Soil	1.5	46.8	16.0	87	0.1	42.9	14.2	274	2.56	10.5	1.0	3.9	7.1	12	0.3	0.5	0.3	35	0.09	0.044
LE03	Soil	1.9	24.8	15.9	49	0.2	15.6	5.7	189	2.35	9.4	1.1	<0.5	0.9	9	0.3	0.4	0.5	48	0.07	0.049
LE04	Soil	1.7	33.4	16.3	52	0.1	21.4	6.8	166	2.58	12.1	1.5	2.4	6.0	10	<0.1	0.6	0.4	43	0.07	0.025
LE05	Soil	1.2	38.6	20.5	61	<0.1	26.5	7.7	177	2.39	11.3	1.6	2.5	4.9	10	<0.1	0.6	0.3	34	0.05	0.033
LE06	Soil	1.7	22.2	14.0	36	0.2	13.8	4.1	118	2.11	11.5	1.4	1.2	3.2	8	0.1	0.5	0.3	45	0.04	0.031
LE07	Soil	1.7	26.5	16.3	49	0.1	18.7	5.7	165	2.25	9.1	1.4	0.5	4.8	16	<0.1	0.3	0.4	35	0.08	0.037
LE08	Soil	1.3	32.0	12.6	45	0.1	21.6	6.4	154	2.02	8.5	1.6	4.4	5.9	11	0.1	0.4	0.3	30	0.07	0.021
LE09	Soil	1.7	31.6	18.8	94	0.3	35.0	13.0	317	3.63	9.2	1.2	2.1	6.1	16	0.2	0.4	0.4	40	0.09	0.047
LE10	Soil	1.7	22.5	17.0	75	0.2	20.0	8.9	202	3.12	13.1	1.0	1.9	5.7	12	0.1	0.6	0.4	46	0.05	0.034
LE11	Soil	1.1	29.6	14.8	73	0.1	36.3	15.7	222	3.02	11.8	1.1	2.5	6.8	13	0.1	0.6	0.3	39	0.13	0.038
LE12	Soil	1.4	29.2	18.5	96	0.4	29.4	15.3	380	2.73	11.3	1.4	1.6	4.4	20	0.2	0.5	0.3	36	0.17	0.053
LE13	Soil	1.8	44.5	18.8	107	0.1	56.5	23.7	364	3.54	14.6	3.1	2.5	13.9	25	0.1	0.4	0.4	35	0.24	0.046
LE14	Soil	2.0	51.1	14.3	68	0.2	26.5	9.6	214	3.65	27.7	3.0	3.4	14.2	15	<0.1	0.4	0.6	36	0.05	0.040
LE15	Soil	1.3	44.0	16.9	119	0.2	30.6	14.9	1596	2.68	7.1	1.5	1.3	2.3	15	0.3	0.3	0.4	33	0.20	0.132

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Project: Roop L  
 Report Date: October 12, 2010

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
L-D26	Soil			14	26	0.41	263	0.025	<20	1.43	0.007	0.06	0.7	0.02	2.0	0.2	<0.05	5	<0.5	<0.2
L-D27	Soil			13	33	0.38	193	0.031	<20	1.96	0.006	0.06	0.2	0.02	2.4	0.2	<0.05	6	<0.5	<0.2
L-D-29	Soil			13	24	0.28	249	0.016	<20	1.53	0.005	0.03	0.1	<0.01	1.8	0.1	<0.05	5	<0.5	<0.2
L-D-30	Soil			19	36	0.56	262	0.063	<20	2.13	0.011	0.16	2.1	<0.01	3.6	0.3	<0.05	6	<0.5	<0.2
L-D-32	Soil			18	34	0.58	387	0.059	<20	1.81	0.018	0.36	0.5	<0.01	3.6	0.2	<0.05	5	<0.5	<0.2
L-D-33	Soil			15	24	0.28	252	0.020	<20	1.76	0.006	0.06	1.1	0.02	2.0	0.2	<0.05	6	<0.5	<0.2
L-D-35	Soil			27	36	0.38	369	0.033	<20	2.20	0.011	0.09	0.3	0.04	2.9	0.2	<0.05	7	<0.5	<0.2
L-D-36	Soil			11	29	0.41	182	0.036	<20	2.11	0.006	0.06	0.3	0.03	2.2	0.2	<0.05	5	<0.5	<0.2
L-D-38	Soil			12	26	0.28	167	0.023	<20	1.54	0.004	0.03	0.1	0.01	1.5	0.1	<0.05	6	0.5	<0.2
L-D-39	Soil			11	21	0.20	203	0.019	<20	1.44	0.007	0.03	98.5	<0.01	1.8	0.1	<0.05	6	1.2	0.2
L-D-41	Soil			8	3	0.19	89	0.003	<20	0.88	0.006	0.04	0.2	<0.01	0.9	0.2	<0.05	4	<0.5	0.2
L-D-42	Soil			10	16	0.19	82	0.022	<20	1.05	0.004	0.03	0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
L-D-44	Soil			18	22	0.37	309	0.025	<20	1.19	0.007	0.04	0.2	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
L-D-45	Soil			18	24	0.51	336	0.038	<20	1.45	0.013	0.07	0.2	0.07	2.6	0.2	<0.05	4	0.6	<0.2
L-M01	Soil			17	28	0.53	316	0.043	<20	1.93	0.008	0.14	0.2	0.01	2.5	0.2	<0.05	4	<0.5	<0.2
LE01	Soil			15	25	0.36	160	0.030	<20	1.44	0.006	0.06	0.1	0.02	1.8	0.2	<0.05	4	<0.5	<0.2
LE02	Soil			15	26	0.51	262	0.035	<20	1.63	0.009	0.09	0.3	0.22	2.1	0.3	<0.05	4	0.9	<0.2
LE03	Soil			14	20	0.26	150	0.027	<20	1.08	0.006	0.06	0.2	0.01	1.2	0.2	<0.05	5	0.5	<0.2
LE04	Soil			17	25	0.48	118	0.038	<20	1.52	0.007	0.06	0.5	0.02	1.7	0.3	0.10	5	0.7	<0.2
LE05	Soil			17	26	0.42	253	0.036	<20	1.39	0.006	0.06	0.2	0.01	1.6	0.3	0.06	4	0.7	<0.2
LE06	Soil			16	24	0.29	95	0.033	<20	1.04	0.005	0.05	0.5	0.02	1.2	0.2	0.06	4	0.6	<0.2
LE07	Soil			21	23	0.41	112	0.055	<20	1.31	0.005	0.11	0.1	0.03	1.4	0.2	<0.05	6	<0.5	<0.2
LE08	Soil			20	20	0.35	181	0.036	<20	1.08	0.006	0.06	0.2	0.04	1.6	0.2	<0.05	4	<0.5	<0.2
LE09	Soil			17	27	0.58	146	0.075	<20	1.79	0.009	0.13	2.0	0.04	1.6	0.3	<0.05	6	0.6	<0.2
LE10	Soil			15	27	0.42	127	0.068	<20	1.60	0.008	0.13	0.3	0.03	1.9	0.2	0.05	6	<0.5	<0.2
LE11	Soil			17	26	0.52	207	0.058	<20	1.71	0.008	0.11	0.3	0.02	2.1	0.2	<0.05	5	0.6	<0.2
LE12	Soil			20	25	0.50	264	0.048	<20	1.50	0.008	0.13	0.1	0.04	1.7	0.2	<0.05	5	0.5	<0.2
LE13	Soil			29	32	0.63	212	0.100	<20	2.43	0.013	0.31	0.1	0.04	2.5	0.4	<0.05	7	0.5	<0.2
LE14	Soil			40	29	0.63	96	0.078	<20	1.98	0.009	0.18	0.2	0.03	1.9	0.4	0.08	6	0.5	<0.2
LE15	Soil			18	30	0.58	159	0.088	<20	2.12	0.018	0.21	<0.1	0.12	1.7	0.3	0.07	7	<0.5	<0.2

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Project: Roop L  
 Report Date: October 12, 2010

Page: 6 of 12 Part 1

**CERTIFICATE OF ANALYSIS**

**WHI10000504.1**

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
LE16	Soil	1.2	59.0	23.1	119	0.1	59.3	28.1	406	3.54	16.1	4.3	1.0	19.6	76	0.1	0.3	0.4	27	0.35	0.061		
LE17	Soil	1.8	33.6	18.1	96	0.2	37.3	26.6	987	1.82	9.6	3.3	1.4	6.2	51	0.8	0.3	0.5	14	0.97	0.069		
LE18	Soil	1.2	30.4	30.3	97	<0.1	39.8	12.5	245	3.60	8.5	0.9	<0.5	7.2	33	0.1	0.3	0.5	25	0.21	0.031		
LE19	Soil	1.3	113.9	10.4	69	0.1	40.8	16.1	160	4.22	11.1	4.1	2.5	22.8	17	0.1	0.3	0.4	31	0.07	0.040		
LE20	Soil	1.6	64.5	10.5	65	0.5	51.0	20.8	154	3.31	14.2	2.2	3.1	12.4	14	0.1	0.8	0.5	27	0.12	0.082		
LE22	Soil	1.2	28.3	9.9	84	0.1	17.9	8.2	863	2.37	6.8	3.1	1.4	0.8	22	0.2	0.3	1.0	29	0.30	0.112		
LE23	Soil	2.2	10.9	12.5	36	<0.1	10.8	4.0	112	2.02	9.1	0.6	1.5	4.3	8	<0.1	0.3	0.9	50	0.08	0.014		
LE24	Soil	1.5	23.4	17.6	72	0.1	24.9	8.6	188	3.93	16.6	0.6	0.9	4.9	8	0.1	0.9	0.3	54	0.05	0.029		
LE25	Soil	1.5	9.7	15.5	64	0.2	12.7	5.1	164	3.10	8.5	0.6	0.7	4.0	5	0.1	0.3	0.4	63	0.04	0.024		
LE26	Soil	1.2	16.4	8.6	23	<0.1	7.9	2.2	64	1.10	9.9	0.5	1.0	1.6	7	<0.1	0.3	0.2	30	0.07	0.023		
LE27	Soil	1.3	26.4	12.7	40	0.2	14.5	4.2	132	1.62	6.7	2.6	1.5	2.3	20	<0.1	0.2	0.4	30	0.13	0.030		
LE28	Soil	1.9	35.3	15.8	61	<0.1	22.3	7.6	174	5.49	9.5	0.9	1.5	12.1	23	<0.1	0.6	0.5	39	0.05	0.043		
LE29	Soil	1.4	48.9	27.7	33	0.1	23.1	4.8	132	1.44	4.3	6.9	<0.5	1.8	22	0.4	0.2	0.2	13	0.31	0.056		
LE30	Soil	1.4	18.0	24.5	67	0.2	35.5	19.2	570	3.91	18.5	2.3	3.5	10.8	36	0.2	0.4	0.4	68	0.34	0.048		
LE31	Soil	0.5	37.1	18.5	33	0.5	16.5	3.7	90	1.49	4.7	6.0	3.0	0.6	22	0.2	0.3	0.3	13	0.41	0.114		
LE32	Soil	0.7	21.6	10.2	19	0.4	15.3	5.1	114	1.68	3.9	3.6	1.6	0.7	34	0.3	0.2	0.1	<2	0.76	0.110		
LE33	Soil	0.9	19.5	12.0	66	0.2	23.2	7.2	180	2.36	9.5	2.0	2.4	3.4	17	0.2	0.3	0.2	30	0.22	0.057		
LE34	Soil	0.7	21.8	11.5	70	0.1	22.8	8.2	233	2.21	5.8	0.9	2.2	5.6	17	<0.1	0.4	0.2	24	0.16	0.048		
LE35	Soil	0.8	18.1	13.5	91	<0.1	26.2	21.2	590	2.76	6.9	1.3	1.6	5.5	16	0.1	0.4	0.3	28	0.14	0.046		
LE36	Soil	0.9	18.6	17.0	81	0.1	24.8	32.9	1268	2.93	8.7	1.6	2.2	5.6	18	0.1	0.5	0.3	28	0.18	0.052		
LE37	Soil	0.6	20.0	13.5	78	0.1	21.5	6.8	191	1.98	5.6	1.6	2.3	4.3	16	0.1	0.4	0.2	25	0.16	0.047		
LE38	Soil	0.7	25.3	13.9	83	0.1	26.1	11.2	730	2.25	7.0	1.4	1.6	4.7	20	<0.1	0.6	0.2	23	0.26	0.054		
LE39	Soil	0.8	38.6	14.5	101	0.2	32.1	8.8	554	2.20	7.9	1.7	2.1	4.8	24	0.4	0.6	0.2	24	0.28	0.048		
LE40	Soil	0.5	21.8	13.8	62	0.1	23.1	9.7	414	2.15	7.8	1.2	2.2	4.3	30	0.2	0.5	0.2	20	0.45	0.034		
LE41	Soil	0.7	20.3	14.2	72	<0.1	20.6	9.8	280	1.97	7.8	0.5	1.1	5.6	19	0.2	0.4	0.2	22	0.29	0.039		
LE42	Soil	0.5	15.7	11.5	69	0.1	18.0	7.9	470	1.75	7.1	0.7	1.5	3.4	34	0.2	0.4	0.2	22	0.65	0.042		
LE43	Soil	0.9	25.1	15.3	83	0.1	24.8	9.8	414	2.15	8.5	0.9	3.4	4.3	34	0.3	0.5	0.2	26	0.63	0.059		
LE44	Soil	0.6	21.2	13.2	78	0.1	22.3	9.0	398	1.88	7.6	0.9	1.0	5.2	22	0.3	0.5	0.2	23	0.36	0.045		
LE45	Soil	0.8	22.4	12.4	79	0.1	21.5	9.0	439	1.91	6.9	1.1	1.1	2.8	36	0.4	0.4	0.2	26	0.69	0.059		
LE46	Soil	0.5	22.0	14.5	94	0.1	24.1	11.3	316	2.04	7.9	2.7	2.0	5.4	34	0.3	0.4	0.3	27	0.71	0.055		

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Project: Roop L  
 Report Date: October 12, 2010

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
LE16	Soil			44	25	0.64	120	0.105	<20	2.40	0.013	0.52	0.1	0.04	2.2	0.5	<0.05	6	0.7	<0.2
LE17	Soil			28	24	0.45	128	0.067	<20	1.32	0.025	0.27	0.7	0.35	1.3	0.3	0.13	4	<0.5	<0.2
LE18	Soil			20	26	0.69	142	0.109	<20	2.40	0.008	0.30	<0.1	0.03	2.2	0.5	<0.05	7	<0.5	<0.2
LE19	Soil			29	35	0.74	198	0.130	<20	2.67	0.016	0.36	0.3	0.03	2.5	0.4	0.17	5	1.0	<0.2
LE20	Soil			24	21	0.32	140	0.047	<20	2.29	0.005	0.14	0.4	0.07	1.5	0.3	0.09	4	1.1	<0.2
LE22	Soil			14	22	0.46	255	0.067	<20	1.26	0.017	0.22	0.4	0.31	1.4	0.4	0.15	5	0.6	<0.2
LE23	Soil			13	20	0.36	93	0.052	<20	1.23	0.005	0.07	0.3	<0.01	1.3	0.2	<0.05	6	<0.5	<0.2
LE24	Soil			12	32	0.46	150	0.029	<20	2.03	0.005	0.06	0.2	0.02	2.3	0.1	<0.05	5	0.9	<0.2
LE25	Soil			13	21	0.24	121	0.026	<20	1.48	0.004	0.03	<0.1	0.01	1.4	0.1	0.10	8	<0.5	<0.2
LE26	Soil			11	13	0.16	44	0.023	<20	0.50	0.005	0.05	0.1	0.01	0.7	0.1	<0.05	4	<0.5	<0.2
LE27	Soil			15	20	0.33	109	0.037	<20	1.00	0.008	0.12	<0.1	0.03	1.2	0.2	0.07	5	<0.5	<0.2
LE28	Soil			20	34	0.70	118	0.086	<20	2.30	0.009	0.25	0.1	0.02	1.7	0.3	0.12	7	0.5	<0.2
LE29	Soil			30	22	0.29	186	0.040	<20	0.97	0.021	0.20	<0.1	0.04	1.3	0.2	0.10	3	0.8	<0.2
LE30	Soil			40	54	1.67	123	0.140	<20	3.54	0.007	0.12	0.2	0.07	5.0	0.3	<0.05	12	0.7	<0.2
LE31	Soil			23	20	0.23	207	0.020	<20	0.95	0.019	0.05	0.1	0.12	1.1	0.1	0.15	3	1.1	<0.2
LE32	Soil			16	8	0.05	291	0.013	<20	0.51	0.026	0.02	<0.1	0.08	1.4	<0.1	0.26	<1	1.1	<0.2
LE33	Soil			14	28	0.51	200	0.054	<20	1.43	0.013	0.15	0.1	0.07	2.2	0.3	0.06	5	0.8	<0.2
LE34	Soil			15	21	0.46	253	0.039	<20	1.27	0.008	0.17	0.1	0.06	1.9	0.2	0.09	4	<0.5	<0.2
LE35	Soil			16	25	0.50	240	0.038	<20	1.50	0.010	0.15	0.1	0.05	2.0	0.2	<0.05	5	<0.5	<0.2
LE36	Soil			18	23	0.43	281	0.032	<20	1.43	0.013	0.13	0.1	0.06	2.2	0.2	0.13	4	0.7	<0.2
LE37	Soil			18	20	0.39	324	0.024	<20	1.30	0.011	0.14	0.2	0.07	2.0	0.2	<0.05	4	<0.5	<0.2
LE38	Soil			17	19	0.38	405	0.018	<20	1.20	0.011	0.10	<0.1	0.07	2.1	0.2	<0.05	3	0.6	<0.2
LE39	Soil			18	9	0.39	561	0.017	<20	1.26	0.012	0.12	0.5	0.09	2.4	0.1	0.07	3	1.1	<0.2
LE40	Soil			13	17	0.38	454	0.016	<20	1.00	0.012	0.09	0.1	0.04	1.7	0.1	0.07	3	0.9	<0.2
LE41	Soil			13	18	0.36	253	0.026	<20	0.96	0.015	0.09	0.1	0.05	1.6	0.1	<0.05	3	<0.5	<0.2
LE42	Soil			11	15	0.33	368	0.014	<20	0.91	0.012	0.07	0.1	0.05	1.5	<0.1	<0.05	3	<0.5	<0.2
LE43	Soil			12	19	0.39	458	0.022	<20	1.04	0.016	0.08	0.2	0.07	1.9	0.1	<0.05	3	0.6	<0.2
LE44	Soil			14	15	0.32	438	0.020	<20	0.91	0.013	0.09	0.2	0.06	1.8	0.1	<0.05	3	0.6	<0.2
LE45	Soil			12	18	0.38	379	0.018	<20	1.09	0.014	0.09	0.2	0.07	1.7	0.1	<0.05	3	<0.5	<0.2
LE46	Soil			14	20	0.40	277	0.025	<20	1.07	0.017	0.10	0.2	0.08	2.2	0.2	<0.05	3	0.6	<0.2

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Project: Roop L  
 Report Date: October 12, 2010

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
LF01	Soil	1.7	10.0	12.4	41	0.4	11.3	4.7	126	2.93	11.9	0.5	2.4	4.4	7	<0.1	0.5	0.3	61	0.04	0.034
LF02	Soil	1.4	8.5	10.8	30	<0.1	8.5	3.1	83	1.95	10.1	0.6	1.2	4.3	7	0.1	0.4	0.3	61	0.05	0.017
LF03	Soil	1.6	48.1	8.8	56	0.1	20.1	6.7	151	2.36	7.1	1.1	3.0	6.7	10	0.1	0.3	0.2	47	0.05	0.034
LF04	Soil	1.6	74.4	14.0	77	0.2	64.1	16.1	174	2.76	11.8	2.8	2.5	7.3	14	0.2	0.6	0.3	53	0.05	0.042
LF05	Soil	1.2	15.8	10.4	39	<0.1	13.9	3.8	95	1.96	6.7	0.6	<0.5	1.3	6	0.1	0.3	0.2	36	0.03	0.029
LF06	Soil	1.1	18.4	10.1	50	0.1	16.5	4.5	133	1.91	7.3	0.6	0.9	4.0	9	<0.1	0.3	0.2	31	0.09	0.042
LF07	Soil	0.9	25.6	9.8	53	<0.1	22.0	8.4	207	1.85	7.2	0.8	1.3	5.2	9	0.1	0.4	0.2	31	0.08	0.039
LF08	Soil	1.9	27.4	20.0	56	0.1	26.5	7.3	164	3.36	16.0	0.6	4.3	5.0	8	0.2	0.7	0.3	50	0.06	0.041
LF09	Soil	1.6	31.8	14.4	61	0.2	27.0	12.7	210	2.62	13.6	1.3	2.8	6.3	8	0.2	0.7	0.3	50	0.06	0.025
LF10	Soil	1.3	53.0	18.9	80	0.2	60.4	18.0	207	2.54	22.4	1.0	2.6	7.1	10	0.2	0.5	0.3	33	0.05	0.029
LF11	Soil	1.0	4.7	12.2	25	<0.1	5.4	2.3	67	1.58	6.9	0.4	0.7	3.3	7	<0.1	0.3	0.2	50	0.05	0.015
LF12	Soil	1.3	17.8	15.3	51	0.2	20.0	8.0	190	2.77	10.5	0.7	2.2	4.0	8	<0.1	0.6	0.2	45	0.06	0.033
LF13	Soil	1.2	38.8	17.7	84	<0.1	36.0	10.0	163	2.34	9.2	0.4	1.0	4.7	8	0.1	0.5	0.2	29	0.06	0.034
LF14	Soil	0.6	5.0	4.1	9	0.1	3.4	0.8	20	0.42	2.5	0.3	1.8	0.2	3	<0.1	<0.1	0.2	16	0.02	0.012
LF15	Soil	1.5	28.4	13.3	72	0.1	31.3	11.6	219	3.37	14.0	0.6	2.2	6.0	7	0.1	0.5	0.3	38	0.06	0.048
LF16	Soil	1.4	25.6	14.4	41	0.1	21.3	9.8	111	2.27	12.1	1.1	1.6	4.6	7	<0.1	0.5	0.2	48	0.05	0.025
LF17	Soil	1.6	11.0	8.5	35	0.2	9.7	3.2	110	1.56	11.3	0.4	<0.5	1.8	5	<0.1	0.4	0.4	45	0.03	0.039
LF18	Soil	1.0	11.7	10.7	55	<0.1	15.2	5.7	141	2.25	11.0	0.4	0.5	3.3	6	<0.1	0.3	0.2	43	0.04	0.020
LF19	Soil	0.5	38.1	4.8	74	<0.1	11.5	4.3	117	2.85	2.1	0.9	1.3	11.6	25	<0.1	0.1	0.8	12	0.02	0.033
LF20	Soil	1.6	15.9	10.5	38	<0.1	14.0	4.9	104	2.10	10.6	0.6	0.9	3.7	7	0.1	0.5	0.2	50	0.06	0.014
LF21	Soil	0.7	25.7	12.1	77	<0.1	29.1	10.9	245	1.92	9.4	0.7	1.3	6.0	10	0.2	0.5	0.2	21	0.10	0.046
LF22	Soil	0.6	45.2	16.1	18	0.9	16.7	3.1	65	1.18	3.1	3.8	3.9	0.3	26	0.3	0.4	0.2	7	0.56	0.163
LF23	Soil	1.4	6.6	9.1	20	<0.1	9.1	2.6	107	1.13	6.5	0.3	<0.5	1.4	5	<0.1	0.2	0.2	41	0.03	0.019
LF24	Soil	0.9	37.5	12.1	69	<0.1	35.2	14.8	190	2.56	12.2	0.8	6.5	6.4	7	0.2	0.4	0.2	33	0.04	0.024
LF25	Soil	1.6	29.5	15.5	62	0.1	24.8	8.5	213	3.00	13.1	0.6	2.2	5.0	14	<0.1	0.5	0.3	49	0.09	0.019
LF26	Soil	1.2	39.0	17.2	65	0.2	37.5	16.0	185	2.76	14.9	0.7	1.7	7.0	9	0.1	0.5	0.3	40	0.06	0.040
LF27	Soil	1.1	46.2	12.0	88	0.2	38.8	17.4	312	2.60	21.2	2.2	2.6	8.1	17	0.2	0.3	0.2	31	0.21	0.056
LF28	Soil	0.3	28.7	9.2	67	0.3	31.5	8.2	158	1.74	7.9	2.4	2.7	3.3	21	0.3	0.2	0.2	21	0.50	0.044
LF29	Soil	0.8	85.6	22.7	93	0.2	63.5	20.3	240	3.05	13.3	0.8	4.6	9.4	13	0.2	0.3	0.3	48	0.15	0.021
LF30	Soil	1.0	34.7	7.3	50	0.3	26.4	6.0	100	1.57	6.3	1.6	2.2	1.0	14	0.2	0.3	0.2	24	0.24	0.054

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Page: 7 of 12 Part 2

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Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
LF01	Soil			14	26	0.32	125	0.037	<20	1.38	0.004	0.05	0.1	0.02	2.2	0.1	<0.05	6	0.6	<0.2
LF02	Soil			15	22	0.25	135	0.031	<20	1.24	0.004	0.03	<0.1	0.01	1.8	0.2	<0.05	5	0.5	<0.2
LF03	Soil			17	30	0.52	180	0.035	<20	1.41	0.006	0.08	<0.1	0.02	2.0	0.2	<0.05	4	1.2	<0.2
LF04	Soil			21	30	0.44	222	0.036	<20	1.87	0.005	0.07	0.1	0.05	3.2	0.2	<0.05	5	1.1	<0.2
LF05	Soil			13	19	0.28	112	0.020	<20	0.98	0.004	0.04	<0.1	0.02	1.0	0.2	<0.05	4	0.6	<0.2
LF06	Soil			14	21	0.37	114	0.033	<20	1.05	0.005	0.05	0.4	0.03	1.3	0.2	<0.05	3	0.8	<0.2
LF07	Soil			14	21	0.40	202	0.035	<20	1.10	0.006	0.06	0.2	0.03	1.7	0.2	<0.05	3	0.7	<0.2
LF08	Soil			13	30	0.36	193	0.034	<20	1.49	0.006	0.05	0.6	0.02	1.8	0.1	<0.05	5	0.8	<0.2
LF09	Soil			15	31	0.44	237	0.036	<20	2.00	0.007	0.06	0.1	0.05	3.0	0.2	<0.05	5	0.6	<0.2
LF10	Soil			17	29	0.50	439	0.030	<20	1.83	0.009	0.10	0.2	0.05	2.3	0.4	<0.05	4	0.7	<0.2
LF11	Soil			14	16	0.19	191	0.024	<20	1.07	0.004	0.03	<0.1	<0.01	1.4	0.2	<0.05	5	<0.5	<0.2
LF12	Soil			12	26	0.42	199	0.032	<20	1.77	0.007	0.05	0.2	0.04	2.1	0.1	<0.05	5	0.7	<0.2
LF13	Soil			12	30	0.45	295	0.033	<20	1.33	0.006	0.07	0.3	0.02	1.5	0.2	<0.05	4	<0.5	<0.2
LF14	Soil			13	8	0.07	42	0.009	<20	0.36	0.004	0.02	<0.1	<0.01	0.3	0.1	<0.05	4	<0.5	<0.2
LF15	Soil			13	32	0.57	112	0.054	<20	1.54	0.006	0.10	0.2	0.02	1.9	0.2	<0.05	5	0.5	<0.2
LF16	Soil			24	20	0.25	142	0.021	<20	1.66	0.006	0.03	<0.1	0.02	1.8	0.1	<0.05	5	0.7	<0.2
LF17	Soil			12	14	0.14	41	0.025	<20	0.55	0.004	0.03	0.1	<0.01	0.8	0.1	<0.05	4	<0.5	<0.2
LF18	Soil			13	19	0.29	133	0.025	<20	1.01	0.005	0.04	<0.1	0.01	1.4	0.1	<0.05	5	<0.5	<0.2
LF19	Soil			33	21	0.68	77	0.043	<20	1.26	0.010	0.24	<0.1	<0.01	0.9	0.3	0.14	4	0.5	<0.2
LF20	Soil			13	18	0.24	135	0.030	<20	0.96	0.004	0.03	0.1	<0.01	1.3	0.1	<0.05	5	<0.5	<0.2
LF21	Soil			13	19	0.38	176	0.029	<20	1.01	0.006	0.07	0.2	0.01	1.4	0.2	<0.05	3	0.6	<0.2
LF22	Soil			20	14	0.10	457	0.005	<20	0.86	0.025	0.04	<0.1	0.21	0.4	0.2	0.17	2	1.1	<0.2
LF23	Soil			10	17	0.18	87	0.049	<20	0.63	0.005	0.08	<0.1	0.01	1.0	0.1	<0.05	7	<0.5	<0.2
LF24	Soil			12	32	0.58	144	0.037	<20	2.05	0.005	0.09	0.1	0.03	2.4	0.2	<0.05	5	<0.5	<0.2
LF25	Soil			13	30	0.61	119	0.052	<20	1.63	0.007	0.08	<0.1	0.02	2.1	0.2	<0.05	6	<0.5	<0.2
LF26	Soil			11	33	0.51	178	0.046	<20	2.27	0.010	0.08	0.2	0.05	2.6	0.2	<0.05	5	0.7	<0.2
LF27	Soil			28	27	0.56	182	0.052	<20	1.46	0.012	0.17	<0.1	0.04	2.0	0.3	<0.05	5	<0.5	<0.2
LF28	Soil			32	21	0.39	222	0.024	<20	1.20	0.014	0.09	<0.1	0.06	1.8	0.2	0.06	4	0.7	<0.2
LF29	Soil			21	39	0.72	279	0.084	<20	2.57	0.021	0.13	0.2	0.03	3.9	0.3	<0.05	6	0.7	<0.2
LF30	Soil			16	24	0.36	183	0.032	<20	1.04	0.009	0.12	<0.1	0.08	1.4	0.2	0.07	4	0.6	<0.2

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Project: Roop L  
 Report Date: October 12, 2010

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
LF31	Soil	1.0	21.9	10.5	64	0.3	25.7	7.2	182	2.16	7.5	0.7	1.5	1.6	15	<0.1	0.3	0.2	32	0.22	0.063		
LF32	Soil	0.8	40.5	9.2	70	0.1	30.5	11.1	236	2.38	9.0	1.1	1.8	3.1	21	0.1	0.3	0.2	30	0.16	0.046		
LF33	Soil	0.8	19.2	10.7	60	0.2	24.5	7.1	151	1.94	7.3	0.9	1.7	3.1	15	0.1	0.2	0.2	29	0.15	0.043		
LF34	Soil	1.3	23.0	14.8	80	0.3	27.4	14.5	425	2.74	11.4	0.9	1.4	2.7	13	<0.1	0.3	0.2	41	0.17	0.049		
LF35	Soil	1.0	29.5	12.9	78	0.2	29.7	14.1	390	2.41	10.6	0.9	3.3	3.6	17	0.1	0.3	0.2	35	0.23	0.057		
LF36	Soil	0.7	21.8	10.2	64	0.1	23.9	9.7	259	1.98	8.6	0.7	0.7	2.9	14	0.1	0.2	0.2	30	0.24	0.041		
LF37	Soil	0.8	23.9	11.1	74	0.1	25.7	24.4	891	2.11	8.5	0.6	2.1	3.2	21	0.1	0.3	0.1	30	0.32	0.057		
LF38	Soil	1.2	28.3	13.5	81	0.2	29.2	21.9	684	2.91	10.0	1.2	2.6	3.1	15	0.2	0.3	0.2	40	0.20	0.057		
LF39	Soil	0.9	32.6	11.2	82	<0.1	28.4	11.2	289	2.31	8.3	0.9	1.6	4.5	16	0.1	0.4	0.2	26	0.18	0.041		
LF40	Soil	0.6	31.4	10.7	81	0.2	31.7	10.3	458	2.10	7.7	1.4	10.8	3.2	45	0.4	0.5	0.2	25	0.92	0.060		
LF41	Soil	0.7	20.4	7.7	68	0.2	20.7	7.3	143	1.98	5.9	0.8	1.0	2.2	19	0.2	0.2	0.2	26	0.21	0.052		
LF42	Soil	5.4	59.8	16.2	96	0.8	41.8	15.1	227	4.03	6.1	2.2	1.2	4.6	10	0.5	0.4	0.4	148	0.10	0.077		
LF43	Soil	1.5	84.1	14.4	69	0.4	40.6	13.2	227	1.98	7.9	5.1	2.8	2.1	51	0.4	0.3	0.2	29	0.53	0.067		
LF44	Soil	1.1	51.6	20.8	65	<0.1	56.1	19.6	270	4.35	19.8	0.5	1.6	5.1	17	0.1	0.3	0.3	62	0.22	0.019		
LF45	Soil	0.5	34.1	4.9	15	0.1	4.0	1.5	37	0.97	1.3	0.4	7.3	0.6	5	0.1	0.1	0.1	49	0.05	0.018		
LF46	Soil	0.6	58.0	12.3	91	0.1	35.2	14.5	383	2.53	8.7	2.8	1.2	3.6	38	0.2	0.2	0.2	38	0.87	0.047		
L-G-02	Soil	4.7	194.9	12.1	57	1.0	28.3	6.0	133	6.88	15.9	3.8	3.5	3.0	14	0.2	0.8	0.3	56	0.04	0.160		
L-G-03	Soil	1.6	54.7	13.7	58	0.1	33.0	8.9	179	2.54	12.1	1.0	1.6	4.7	7	0.2	0.6	0.2	41	0.05	0.028		
L-G-05	Soil	2.4	52.9	12.1	63	0.5	28.3	6.6	148	2.94	12.3	1.3	2.4	1.7	9	0.1	0.6	0.2	43	0.06	0.056		
L-G-06	Soil	4.1	123.0	12.2	62	0.6	35.0	8.3	166	3.51	17.7	3.9	8.9	5.6	14	0.2	1.5	0.3	48	0.07	0.105		
L-G-08	Soil	1.8	65.9	13.9	98	0.1	51.0	14.8	234	2.67	12.2	2.2	4.0	5.2	10	0.3	0.6	0.2	38	0.07	0.048		
L-G-09	Soil	1.5	84.4	13.2	121	0.2	108.9	24.5	324	2.25	9.5	2.6	2.2	6.2	16	0.3	0.7	0.2	28	0.12	0.073		
L-G-011	Soil	2.1	11.8	13.0	47	0.2	12.9	5.3	175	2.71	12.5	0.6	3.9	3.6	7	0.2	0.4	0.2	62	0.05	0.038		
L-G-12	Soil	1.1	30.5	13.9	70	0.1	29.9	10.5	200	2.60	12.1	0.9	3.9	5.7	8	0.2	0.5	0.2	36	0.05	0.035		
L-G-14	Soil	1.5	16.0	11.2	56	0.2	20.8	6.3	178	3.02	16.1	0.4	1.3	2.9	6	0.1	0.5	0.2	51	0.05	0.034		
L-G-15	Soil	1.1	18.4	16.9	74	0.2	18.0	5.0	180	2.51	12.5	0.3	0.9	1.1	5	0.1	1.1	0.3	27	0.04	0.054		
L-G-17	Soil	1.3	18.4	12.4	54	0.1	20.0	8.0	187	2.48	13.6	0.7	1.4	3.6	10	0.1	0.4	0.2	41	0.06	0.023		
L-G-18	Soil	1.7	16.2	13.0	46	<0.1	19.0	9.2	181	2.80	13.3	0.6	2.7	3.9	5	0.1	0.6	0.2	50	0.05	0.024		
L-G-20	Soil	1.7	53.9	15.0	87	0.2	126.2	31.7	434	3.77	94.4	1.7	2.0	1.2	30	0.2	0.3	0.3	61	0.19	0.067		
L-G-21	Soil	1.4	27.6	12.5	58	<0.1	23.4	7.3	175	2.92	13.4	0.8	1.1	2.3	13	0.2	0.4	0.2	49	0.26	0.069		

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**Project:** Roop L  
**Report Date:** October 12, 2010

**Page:** 8 of 12 Part 2

# CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
LF31	Soil	10	33	0.59	179	0.058	<20	1.50	0.015	0.19	0.2	0.06	2.0	0.2	0.06	5	0.5	<0.2
LF32	Soil	16	25	0.48	211	0.063	<20	1.31	0.011	0.22	0.4	0.04	1.8	0.3	<0.05	5	<0.5	<0.2
LF33	Soil	15	25	0.52	177	0.047	<20	1.51	0.012	0.14	0.2	0.05	1.8	0.2	<0.05	5	<0.5	<0.2
LF34	Soil	15	31	0.56	202	0.053	<20	1.69	0.012	0.15	0.1	0.06	2.1	0.2	<0.05	5	<0.5	<0.2
LF35	Soil	16	27	0.50	248	0.052	<20	1.43	0.018	0.16	0.3	0.11	2.1	0.2	<0.05	4	<0.5	<0.2
LF36	Soil	11	21	0.43	223	0.047	<20	1.23	0.023	0.11	0.4	0.03	1.8	0.2	0.05	4	<0.5	<0.2
LF37	Soil	12	23	0.47	261	0.053	<20	1.26	0.028	0.14	0.1	0.03	1.9	0.2	0.07	4	<0.5	<0.2
LF38	Soil	17	31	0.58	243	0.053	<20	1.75	0.015	0.15	0.1	0.05	2.5	0.2	<0.05	5	<0.5	<0.2
LF39	Soil	16	21	0.46	275	0.038	<20	1.31	0.009	0.11	0.3	0.04	1.8	0.2	<0.05	4	<0.5	<0.2
LF40	Soil	12	22	0.46	364	0.036	<20	1.34	0.019	0.12	<0.1	0.10	1.9	0.2	0.10	4	0.6	<0.2
LF41	Soil	13	25	0.50	149	0.056	<20	1.40	0.014	0.16	0.2	0.06	1.7	0.2	0.08	5	<0.5	<0.2
LF42	Soil	14	51	0.76	181	0.111	<20	4.35	0.012	0.16	0.2	0.05	5.2	0.2	<0.05	11	1.7	<0.2
LF43	Soil	105	24	0.40	269	0.028	<20	1.62	0.013	0.08	0.1	0.06	2.0	0.2	<0.05	4	0.8	<0.2
LF44	Soil	10	45	0.89	184	0.096	<20	3.33	0.021	0.10	0.2	0.01	4.0	0.2	<0.05	8	<0.5	<0.2
LF45	Soil	9	7	0.07	73	0.048	<20	0.56	0.010	0.03	<0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
LF46	Soil	17	36	0.57	250	0.038	<20	2.06	0.072	0.11	0.1	0.05	2.3	0.2	<0.05	5	0.6	<0.2
L-G-02	Soil	23	30	0.24	106	0.021	<20	1.48	0.007	0.06	0.2	0.06	1.4	0.2	0.17	5	3.1	<0.2
L-G-03	Soil	13	24	0.43	191	0.031	<20	1.74	0.006	0.04	0.2	0.03	1.9	0.2	<0.05	4	0.9	<0.2
L-G-05	Soil	15	24	0.38	104	0.026	<20	1.49	0.007	0.05	0.2	0.04	1.6	0.2	<0.05	5	1.2	<0.2
L-G-06	Soil	21	28	0.45	116	0.032	<20	1.94	0.008	0.07	0.2	0.08	3.1	0.3	0.05	4	2.4	0.3
L-G-08	Soil	17	25	0.45	267	0.033	<20	1.83	0.008	0.06	0.2	0.06	2.5	0.2	<0.05	4	0.7	<0.2
L-G-09	Soil	23	21	0.40	563	0.037	<20	1.62	0.008	0.09	0.3	0.04	2.1	0.2	<0.05	3	1.2	<0.2
L-G-011	Soil	13	25	0.33	161	0.022	<20	1.82	0.006	0.04	0.1	0.03	2.1	0.1	<0.05	5	0.7	<0.2
L-G-12	Soil	13	26	0.43	232	0.031	<20	1.62	0.006	0.06	0.2	0.04	2.2	0.2	<0.05	4	0.8	<0.2
L-G-14	Soil	11	24	0.39	96	0.046	<20	1.17	0.005	0.05	0.3	0.02	1.6	0.2	<0.05	5	<0.5	<0.2
L-G-15	Soil	10	17	0.20	91	0.021	<20	0.58	0.003	0.03	0.2	0.04	0.7	0.1	<0.05	3	<0.5	<0.2
L-G-17	Soil	16	22	0.44	249	0.028	<20	1.44	0.007	0.05	0.1	0.02	1.6	0.2	<0.05	4	<0.5	<0.2
L-G-18	Soil	11	25	0.36	176	0.025	<20	1.77	0.004	0.04	0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
L-G-20	Soil	24	113	1.38	366	0.055	<20	2.60	0.009	0.12	0.2	0.06	2.3	0.4	<0.05	8	<0.5	<0.2
L-G-21	Soil	13	23	0.33	146	0.036	<20	1.29	0.008	0.06	0.2	0.01	1.5	0.1	<0.05	5	<0.5	<0.2

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Project: Roop L  
 Report Date: October 12, 2010

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-G-23	Soil	1.7	37.6	13.0	50	<0.1	23.4	9.0	125	2.59	12.7	0.8	1.2	5.1	7	<0.1	0.4	0.3	47	0.05	0.021		
L-G-24	Soil	1.3	49.4	7.8	54	<0.1	16.9	6.6	125	3.38	26.5	1.0	1.1	17.7	15	<0.1	0.3	0.6	22	0.06	0.056		
L-G-26	Soil	1.9	9.5	10.5	37	<0.1	11.9	4.3	134	3.27	16.2	0.3	1.0	2.7	5	0.1	0.6	0.2	59	0.04	0.031		
L-G-27	Soil	1.2	20.6	10.4	35	0.2	13.6	4.1	94	1.77	11.8	0.9	1.5	2.5	9	0.1	0.3	0.2	37	0.06	0.023		
L-G-29	Soil	0.4	40.5	12.2	54	0.3	29.3	7.8	174	1.49	7.7	2.6	2.7	1.7	21	0.3	0.2	0.2	19	0.22	0.058		
L-G-30	Soil	0.8	28.7	11.0	80	0.1	35.4	13.2	332	2.68	9.8	1.1	1.7	4.3	15	<0.1	0.3	0.2	43	0.21	0.060		
L-G-32	Soil	1.0	24.5	12.0	89	0.1	32.9	14.8	547	2.93	11.1	1.3	2.2	4.4	19	<0.1	0.4	0.3	46	0.21	0.053		
L-G-33	Soil	1.0	32.1	12.3	86	0.2	29.2	13.3	460	2.78	11.2	1.2	1.2	4.3	14	0.1	0.4	0.2	42	0.14	0.042		
L-G-34	Soil	0.9	27.9	11.9	82	<0.1	29.4	10.9	292	2.53	11.0	1.2	1.3	7.3	14	0.1	0.4	0.2	39	0.15	0.042		
L-G-34B	Soil	0.6	40.6	13.4	78	<0.1	28.6	9.2	191	2.59	11.3	0.7	2.0	7.4	6	<0.1	0.5	0.2	35	0.04	0.011		
L-G-35	Soil	0.8	34.8	14.1	86	0.2	30.8	9.9	286	2.44	10.9	2.2	2.5	3.5	19	0.3	0.3	0.3	35	0.20	0.045		
L-G-36	Soil	0.8	43.4	15.9	77	<0.1	37.1	12.1	252	3.08	15.6	0.5	<0.5	4.3	12	0.2	0.4	0.3	53	0.11	0.035		
L-G-38	Soil	1.1	30.0	14.7	90	0.3	33.3	13.3	271	2.25	15.1	2.3	2.1	3.6	23	0.2	0.4	0.3	34	0.23	0.064		
L-G-39	Soil	1.3	40.2	14.1	65	<0.1	23.5	9.0	186	2.40	11.2	3.1	2.0	7.0	11	<0.1	0.5	0.2	35	0.09	0.013		
L-G-41	Soil	1.3	17.8	11.3	40	<0.1	13.7	5.0	114	1.97	10.1	1.2	0.5	4.5	9	<0.1	0.4	0.2	40	0.06	0.009		
L-G-42	Soil	2.0	113.7	12.4	111	0.3	67.5	29.0	480	2.81	11.0	4.3	4.4	5.1	42	0.3	0.4	0.3	37	0.55	0.074		
L-G-44	Soil	0.5	29.8	11.5	61	0.1	16.7	5.8	167	1.91	6.1	1.1	3.7	5.0	18	0.1	0.2	0.2	27	0.11	0.023		
L-G-45	Soil	0.3	24.8	8.3	33	0.1	12.1	4.1	103	1.04	3.8	1.4	1.5	1.2	17	0.2	0.2	0.2	14	0.12	0.027		
L-X-01	Soil	0.8	4.7	5.7	35	<0.1	6.7	3.4	154	1.10	3.8	1.3	1.6	4.2	11	0.2	0.2	0.2	19	0.13	0.044		
L-X-02	Soil	0.4	6.8	7.4	35	<0.1	8.1	3.4	121	1.10	3.7	2.1	<0.5	3.8	12	0.1	0.2	0.2	16	0.13	0.040		
L-X-03	Soil	0.7	10.7	11.6	45	<0.1	10.0	4.7	154	1.71	4.8	3.2	4.7	4.2	10	<0.1	0.2	0.3	25	0.09	0.034		
L-X-04	Soil	0.7	19.1	14.3	75	0.2	19.1	10.4	601	2.14	6.6	7.2	0.9	5.8	24	0.4	0.4	0.4	30	0.30	0.057		
L-X-05	Soil	0.7	9.7	9.2	42	<0.1	10.3	4.1	133	1.38	4.7	3.0	24.9	3.7	13	0.1	0.2	0.2	22	0.14	0.033		
L-X-06	Soil	1.1	12.4	10.1	30	<0.1	8.2	3.2	79	1.32	5.1	2.4	0.9	4.0	8	0.1	0.3	0.2	29	0.05	0.015		
L-X-07	Soil	2.1	10.4	10.5	30	<0.1	8.9	3.0	104	2.10	12.3	1.7	1.4	4.2	6	0.1	0.6	0.4	46	0.04	0.020		
LX08	Soil	2.5	10.2	15.7	32	0.1	10.5	3.4	110	1.59	6.0	3.3	<0.5	2.5	8	0.1	0.3	0.2	34	0.08	0.024		
LX09	Soil	5.8	11.0	13.2	50	<0.1	14.7	7.1	170	2.44	12.9	1.6	1.3	4.4	8	0.1	0.5	0.2	44	0.06	0.012		
LX10	Soil	3.8	16.9	10.9	43	<0.1	16.9	6.5	144	2.48	12.6	2.8	<0.5	4.7	6	<0.1	0.6	0.2	41	0.05	0.016		
LX11	Soil	3.3	9.3	11.4	39	0.1	10.5	4.7	157	1.88	9.0	5.1	<0.5	4.3	13	<0.1	0.4	0.2	41	0.13	0.015		
LX12	Soil	2.8	11.7	14.1	49	0.1	11.2	4.7	130	1.99	9.5	3.4	0.5	4.5	9	<0.1	0.3	0.2	41	0.09	0.021		

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Project: Roop L  
 Report Date: October 12, 2010

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
L-G-23	Soil			17	21	0.32	129	0.017	<20	1.51	0.003	0.03	0.2	0.02	1.5	0.1	<0.05	5	0.5	<0.2
L-G-24	Soil			32	25	0.54	113	0.061	<20	1.60	0.013	0.25	0.1	0.02	1.4	0.3	0.13	4	0.6	<0.2
L-G-26	Soil			9	21	0.25	55	0.042	<20	1.07	0.004	0.04	0.2	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
L-G-27	Soil			17	12	0.24	115	0.024	<20	1.02	0.004	0.04	0.1	0.03	1.3	0.2	<0.05	4	<0.5	<0.2
L-G-29	Soil			32	22	0.34	279	0.024	<20	1.20	0.009	0.08	0.1	0.08	1.7	0.2	<0.05	4	0.7	<0.2
L-G-30	Soil			16	42	0.76	278	0.081	<20	2.02	0.018	0.29	0.1	0.07	3.3	0.3	<0.05	6	<0.5	<0.2
L-G-32	Soil			16	39	0.73	247	0.083	<20	1.96	0.016	0.25	0.3	0.06	3.0	0.3	<0.05	6	<0.5	<0.2
L-G-33	Soil			15	33	0.61	181	0.071	<20	1.65	0.009	0.17	0.2	0.04	2.6	0.2	0.10	6	<0.5	<0.2
L-G-34	Soil			16	32	0.66	151	0.086	<20	1.69	0.014	0.15	0.1	0.02	2.5	0.2	<0.05	5	<0.5	<0.2
L-G-34B	Soil			15	29	0.55	217	0.053	<20	1.77	0.006	0.11	0.4	0.06	3.1	0.2	<0.05	4	<0.5	<0.2
L-G-35	Soil			19	31	0.53	248	0.050	<20	1.61	0.009	0.14	0.1	0.07	2.6	0.2	<0.05	5	0.6	<0.2
L-G-36	Soil			12	39	0.74	105	0.098	<20	1.69	0.010	0.15	0.4	0.01	3.0	0.3	<0.05	6	<0.5	<0.2
L-G-38	Soil			23	26	0.49	236	0.032	<20	1.51	0.012	0.14	0.2	0.13	2.2	0.2	<0.05	5	0.7	<0.2
L-G-39	Soil			21	15	0.45	179	0.038	<20	1.34	0.007	0.05	0.1	0.04	2.1	0.1	<0.05	4	0.7	<0.2
L-G-41	Soil			16	19	0.32	110	0.032	<20	1.13	0.006	0.05	<0.1	<0.01	1.6	0.1	<0.05	4	<0.5	<0.2
L-G-42	Soil			37	28	0.54	356	0.058	<20	1.49	0.017	0.15	0.2	0.10	2.8	0.2	0.06	4	0.9	<0.2
L-G-44	Soil			14	24	0.42	137	0.047	<20	1.38	0.009	0.08	<0.1	0.04	1.8	0.2	<0.05	5	<0.5	<0.2
L-G-45	Soil			14	16	0.25	113	0.024	<20	0.77	0.008	0.06	0.2	0.04	0.9	0.2	<0.05	4	<0.5	<0.2
L-X-01	Soil			16	13	0.33	112	0.045	<20	0.69	0.008	0.10	0.5	0.01	0.9	0.2	<0.05	3	<0.5	<0.2
L-X-02	Soil			14	14	0.30	134	0.035	<20	0.68	0.009	0.08	4.2	0.02	1.1	0.2	0.06	3	<0.5	<0.2
L-X-03	Soil			16	18	0.36	134	0.046	<20	1.02	0.009	0.07	0.3	0.04	1.4	0.2	<0.05	4	0.5	<0.2
L-X-04	Soil			21	21	0.47	399	0.056	<20	1.21	0.011	0.11	0.5	0.05	2.0	0.2	<0.05	4	<0.5	<0.2
L-X-05	Soil			12	15	0.35	137	0.038	<20	0.80	0.007	0.05	1.5	0.03	1.2	0.2	<0.05	3	<0.5	<0.2
L-X-06	Soil			13	13	0.17	195	0.019	<20	0.89	0.006	0.03	<0.1	0.02	1.1	0.1	<0.05	4	<0.5	<0.2
L-X-07	Soil			10	16	0.21	69	0.040	<20	0.99	0.004	0.03	0.2	0.02	1.0	0.1	<0.05	5	<0.5	<0.2
LX08	Soil			13	13	0.21	191	0.031	<20	0.75	0.005	0.04	0.6	<0.01	1.0	0.2	<0.05	4	<0.5	<0.2
LX09	Soil			15	22	0.32	155	0.024	<20	1.27	0.004	0.03	<0.1	<0.01	1.6	0.1	<0.05	4	<0.5	<0.2
LX10	Soil			10	21	0.35	148	0.031	<20	1.34	0.004	0.03	0.2	0.01	1.7	0.1	<0.05	5	<0.5	<0.2
LX11	Soil			17	17	0.29	301	0.022	<20	1.05	0.005	0.03	0.1	<0.01	1.3	0.1	<0.05	4	<0.5	<0.2
LX12	Soil			13	19	0.32	163	0.024	<20	1.24	0.005	0.03	<0.1	0.05	1.7	0.2	<0.05	5	0.5	<0.2

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Project: Roop L  
 Report Date: October 12, 2010

Page: 10 of 12 Part 1

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Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
LX13	Soil	1.0	2.3	6.2	6	<0.1	1.2	0.3	20	0.18	<0.5	0.5	<0.5	1.9	9	<0.1	<0.1	<0.1	12	0.06	0.006
LX14	Soil	1.7	9.2	13.0	49	<0.1	12.7	4.7	132	2.00	10.6	1.0	0.7	2.2	9	<0.1	0.6	0.2	40	0.07	0.026
LX15	Soil	2.5	28.4	18.1	86	0.2	22.4	13.9	757	2.19	13.0	54.1	1.7	4.5	34	0.3	0.5	0.4	33	0.71	0.052
LX16	Soil	3.3	28.6	9.5	74	0.2	23.6	11.6	542	1.87	6.0	25.7	1.7	3.9	45	0.3	0.4	0.2	35	0.97	0.068
LX17	Soil	2.1	18.0	13.5	48	<0.1	20.9	8.6	178	2.31	9.3	3.3	3.2	6.6	7	<0.1	0.5	0.2	42	0.06	0.016
LX18	Soil	2.4	34.1	14.0	56	<0.1	24.1	10.5	183	2.61	11.3	4.2	1.3	8.0	6	0.1	0.7	0.2	33	0.04	0.013
LX19	Soil	2.9	14.3	11.9	71	<0.1	16.2	13.2	410	2.07	8.6	11.9	0.7	6.4	25	0.1	0.4	0.2	37	0.29	0.059
LX20	Soil	2.1	17.2	13.3	48	0.1	17.9	6.9	164	2.36	9.7	1.0	<0.5	4.7	11	<0.1	0.5	0.2	37	0.09	0.014
LX21	Soil	1.9	15.7	5.2	26	0.2	7.6	3.0	406	0.72	3.5	22.4	<0.5	1.3	103	0.2	0.5	0.1	8	3.22	0.071
LX22	Soil	3.2	23.4	14.0	71	0.1	21.6	9.4	412	2.33	9.5	33.8	<0.5	10.4	28	0.1	0.5	0.2	38	0.44	0.051
LX23	Soil	4.0	10.0	13.2	44	<0.1	11.1	5.4	180	2.23	9.3	2.0	10.1	4.0	7	0.1	0.4	0.2	41	0.07	0.027
LX24	Soil	3.5	9.9	12.4	52	0.2	11.5	6.5	235	2.32	9.8	6.5	<0.5	4.7	11	0.1	0.5	0.4	49	0.14	0.023
LX25	Soil	3.5	15.7	11.1	61	<0.1	17.9	7.1	245	2.40	10.6	1.3	<0.5	2.1	10	0.2	0.4	0.2	41	0.10	0.033
LX26	Soil	1.4	30.8	1.4	8	<0.1	11.6	1.6	205	0.26	13.9	182.5	<0.5	0.7	123	0.3	1.7	<0.1	5	4.09	0.079
LX27	Soil	3.2	3.8	10.4	47	<0.1	11.9	2.8	82	1.61	9.6	0.6	<0.5	3.0	11	<0.1	0.4	0.2	35	0.18	0.033
LX28	Soil	2.6	17.5	15.7	70	0.1	20.0	6.4	149	3.55	16.0	1.1	1.3	2.9	13	0.2	1.0	0.2	46	0.14	0.069
LX29	Soil	1.9	27.6	10.3	87	0.2	25.0	7.7	232	2.33	10.5	2.9	1.7	4.0	19	0.2	1.0	0.2	28	0.20	0.055
LX30	Soil	1.6	32.2	11.2	79	0.2	28.5	8.0	228	2.35	9.6	3.0	2.1	4.6	24	0.2	1.0	0.2	26	0.23	0.072
LX31	Soil	1.8	8.9	8.7	39	<0.1	15.1	4.1	75	1.35	6.1	1.8	<0.5	3.1	12	<0.1	0.5	0.1	28	0.16	0.030
LX32	Soil	1.9	7.6	9.6	41	<0.1	13.1	3.1	70	1.50	6.9	1.4	0.7	2.5	10	<0.1	0.4	0.1	34	0.16	0.019
LX33	Soil	1.8	18.7	9.8	75	<0.1	15.7	6.5	630	1.73	5.4	9.0	7.4	0.4	18	0.7	0.3	0.2	47	0.36	0.036
LX34	Soil	1.9	17.6	12.2	74	0.3	19.4	10.9	1181	2.40	8.6	5.7	<0.5	2.6	13	0.4	0.3	0.2	60	0.21	0.033
LX35	Soil	1.7	17.5	14.6	102	0.1	23.3	8.9	280	3.01	15.4	0.5	<0.5	2.6	8	0.4	0.5	0.2	61	0.05	0.049
LX36	Soil	1.7	21.5	15.5	84	<0.1	24.1	10.1	310	3.00	15.7	0.6	11.0	3.6	8	0.2	0.7	0.2	52	0.05	0.055
LX37	Soil	2.1	23.7	14.9	89	0.3	28.3	10.3	286	3.05	15.4	0.5	1.0	3.2	13	0.1	0.5	0.2	57	0.10	0.033
LX38	Soil	1.2	9.5	11.6	89	0.3	16.2	7.0	188	2.49	10.6	0.5	<0.5	3.1	8	0.2	0.5	0.2	48	0.06	0.051
LX39	Soil	0.4	8.3	1.5	45	0.2	3.5	1.7	495	0.25	2.4	0.8	<0.5	<0.1	272	0.6	0.3	<0.1	4	5.19	0.072
LX40	Soil	1.1	25.5	16.5	74	0.1	30.8	12.2	607	2.42	8.4	1.1	3.6	3.1	25	0.2	0.5	0.2	23	0.30	0.056
L-Y-1	Soil	0.9	10.6	10.8	58	<0.1	13.7	7.2	258	1.78	6.2	2.2	1.6	4.6	14	<0.1	0.3	0.3	31	0.17	0.046
L-Y-2	Soil	0.6	12.5	9.4	61	<0.1	14.7	7.7	462	1.71	5.2	3.3	0.5	4.2	25	0.3	0.3	0.2	28	0.38	0.050

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Page: 10 of 12 Part 2

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Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
LX13	Soil			12	4	0.03	95	0.014	<20	0.40	0.005	0.02	<0.1	<0.01	0.6	0.2	<0.05	3	<0.5	<0.2
LX14	Soil			13	19	0.33	145	0.026	<20	0.99	0.004	0.04	<0.1	0.03	1.3	0.1	<0.05	4	<0.5	<0.2
LX15	Soil			28	21	0.41	266	0.036	<20	1.23	0.015	0.08	0.4	0.05	2.2	0.2	<0.05	4	0.5	<0.2
LX16	Soil			17	27	0.51	386	0.050	<20	1.29	0.030	0.10	0.3	0.05	2.8	0.2	0.05	5	<0.5	<0.2
LX17	Soil			16	23	0.37	209	0.029	<20	1.52	0.004	0.04	<0.1	0.02	1.9	0.1	<0.05	4	<0.5	<0.2
LX18	Soil			21	21	0.36	213	0.017	<20	1.32	0.008	0.04	<0.1	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2
LX19	Soil			17	25	0.49	253	0.056	<20	1.11	0.011	0.09	0.2	0.03	2.1	0.2	<0.05	5	<0.5	0.3
LX20	Soil			14	21	0.36	239	0.023	<20	1.24	0.004	0.04	<0.1	<0.01	1.7	0.1	<0.05	4	<0.5	<0.2
LX21	Soil			7	9	0.21	261	0.012	<20	0.44	0.014	0.03	<0.1	0.09	0.8	<0.1	0.19	1	<0.5	<0.2
LX22	Soil			24	25	0.52	394	0.050	<20	1.24	0.012	0.11	0.2	0.04	2.9	0.2	<0.05	4	<0.5	<0.2
LX23	Soil			14	17	0.26	219	0.017	<20	1.12	0.003	0.03	0.1	<0.01	1.3	0.1	<0.05	4	<0.5	<0.2
LX24	Soil			14	21	0.30	322	0.021	<20	1.30	0.004	0.03	0.1	0.03	1.8	0.1	<0.05	4	<0.5	<0.2
LX25	Soil			10	19	0.39	212	0.039	<20	1.37	0.004	0.04	0.4	0.02	1.4	0.2	<0.05	6	<0.5	0.2
LX26	Soil			3	5	0.12	494	0.006	<20	0.27	0.020	0.02	<0.1	0.07	0.4	0.2	0.27	<1	1.1	<0.2
LX27	Soil			12	16	0.30	139	0.023	<20	0.79	0.004	0.04	0.1	<0.01	1.0	<0.1	<0.05	3	<0.5	0.3
LX28	Soil			12	21	0.31	496	0.012	<20	1.31	0.003	0.03	0.1	0.04	1.3	0.1	<0.05	4	<0.5	<0.2
LX29	Soil			15	15	0.30	874	0.012	<20	0.90	0.002	0.05	<0.1	0.18	1.9	0.1	<0.05	3	<0.5	<0.2
LX30	Soil			16	16	0.30	1307	0.012	<20	0.85	0.004	0.04	<0.1	0.21	2.2	<0.1	<0.05	3	<0.5	0.3
LX31	Soil			13	13	0.27	179	0.012	<20	0.87	0.003	0.04	<0.1	0.04	0.9	<0.1	<0.05	3	<0.5	<0.2
LX32	Soil			11	14	0.25	178	0.012	<20	0.87	0.003	0.04	0.1	0.03	1.0	<0.1	<0.05	4	<0.5	<0.2
LX33	Soil			11	18	0.25	397	0.015	<20	0.92	0.006	0.04	<0.1	<0.01	1.0	0.1	<0.05	4	<0.5	<0.2
LX34	Soil			12	26	0.37	539	0.019	<20	1.64	0.006	0.04	<0.1	0.02	2.3	0.1	<0.05	5	<0.5	<0.2
LX35	Soil			11	29	0.42	374	0.020	<20	1.87	0.004	0.05	0.2	0.02	2.3	0.1	<0.05	5	<0.5	<0.2
LX36	Soil			14	26	0.41	408	0.019	<20	1.75	0.004	0.05	0.1	0.09	2.2	0.1	<0.05	5	<0.5	<0.2
LX37	Soil			11	27	0.40	1935	0.014	<20	1.84	0.004	0.03	0.1	0.11	2.4	0.1	<0.05	5	<0.5	<0.2
LX38	Soil			11	25	0.37	306	0.023	<20	1.60	0.004	0.05	0.1	0.04	1.9	0.1	<0.05	5	<0.5	0.2
LX39	Soil			<1	4	0.12	1901	0.006	<20	0.16	0.016	0.02	<0.1	0.09	<0.1	<0.1	0.17	<1	0.5	<0.2
LX40	Soil			14	17	0.33	484	0.009	<20	0.98	0.006	0.04	<0.1	0.07	1.6	<0.1	<0.05	3	0.8	<0.2
L-Y-1	Soil			15	18	0.42	224	0.049	<20	1.01	0.010	0.09	0.8	0.03	1.6	0.2	<0.05	4	<0.5	0.3
L-Y-2	Soil			15	17	0.41	318	0.050	<20	0.99	0.013	0.09	1.6	0.05	1.6	0.2	<0.05	4	<0.5	<0.2

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Project: Roop L  
 Report Date: October 12, 2010

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-Y-3	Soil			0.9	18.4	13.7	78	0.2	19.5	11.2	798	2.29	7.4	3.8	0.9	4.2	22	0.3	0.5	0.2	33	0.31	0.058
L-Y-4	Soil			0.8	10.7	10.4	62	<0.1	14.0	6.2	271	1.87	6.3	1.5	1.7	4.9	9	0.1	0.3	0.2	30	0.10	0.035
L-Y-5	Soil			1.1	14.0	11.1	64	0.1	16.8	6.1	172	1.75	6.6	5.4	<0.5	3.5	15	0.2	0.3	0.2	33	0.18	0.039
L-Y-6	Soil			1.3	11.2	10.9	58	0.1	13.7	6.6	234	1.70	6.5	4.2	1.7	3.0	17	0.1	0.2	0.2	31	0.23	0.040
L-Y-7	Soil			1.1	23.5	12.8	51	<0.1	24.6	7.8	168	2.32	10.2	0.6	<0.5	4.9	9	<0.1	0.5	0.2	38	0.08	0.027
L-Y-8	Soil			1.3	19.7	9.4	48	<0.1	20.4	6.4	154	2.36	10.6	0.5	1.3	3.3	9	<0.1	0.5	0.2	41	0.07	0.023
L-Y-9	Soil			0.5	25.8	11.0	63	<0.1	26.3	10.0	299	1.90	13.8	1.2	0.6	6.4	18	0.1	0.3	0.2	25	0.24	0.053
L-Y-10	Soil			5.4	55.3	22.6	113	0.6	39.4	18.9	1667	3.36	20.6	59.1	6.8	3.6	66	0.7	0.8	0.4	49	1.33	0.134
L-Y-11	Soil			2.2	13.1	11.9	52	<0.1	14.1	5.6	126	1.89	7.5	0.7	3.5	3.4	7	<0.1	0.3	0.1	28	0.08	0.026
L-Y-12	Soil			2.1	20.3	11.3	62	<0.1	18.7	7.3	182	2.38	11.3	2.5	1.9	5.6	8	0.1	0.6	0.2	48	0.06	0.014
L-Y-13	Soil			1.9	30.9	14.4	70	<0.1	24.8	6.7	218	2.64	16.7	1.3	7.9	4.2	10	<0.1	0.6	1.7	47	0.08	0.045
L-Y-14	Soil			2.5	27.9	16.7	71	0.2	20.9	10.8	442	2.05	9.9	17.1	0.8	4.0	20	0.3	0.3	0.4	28	0.38	0.048
L-Y-15	Soil			2.9	12.1	12.1	39	<0.1	12.6	4.8	126	2.45	10.6	1.3	0.9	3.4	6	<0.1	0.4	0.2	48	0.04	0.019
L-Y-16	Soil			3.9	15.7	13.8	64	<0.1	18.2	8.4	201	2.59	11.6	3.2	0.6	6.0	8	0.1	0.5	0.2	49	0.06	0.016
L-Y-17	Soil			2.0	16.8	12.9	74	0.2	19.7	7.8	205	2.21	10.1	10.7	1.3	7.1	23	0.1	0.3	0.4	37	0.34	0.035
L-Y-18	Soil			1.5	15.4	10.6	59	0.1	15.0	6.5	242	1.65	7.7	7.8	1.0	3.7	16	0.1	0.3	0.2	28	0.21	0.046
L-Y-19	Soil			3.4	12.1	12.5	55	<0.1	13.7	7.1	332	2.29	11.7	5.9	1.0	3.8	10	0.2	0.4	0.3	43	0.09	0.025
L-Y-21	Soil			1.2	24.7	13.2	57	<0.1	21.0	7.6	158	2.12	9.9	2.1	1.6	6.0	10	0.1	0.6	0.2	36	0.08	0.017
L-Y-22	Soil			3.1	21.4	12.8	50	<0.1	20.6	6.9	148	2.29	10.9	6.6	2.5	6.0	7	<0.1	0.6	0.2	45	0.05	0.012
L-Y-23	Soil			1.5	10.5	12.0	32	<0.1	11.3	4.0	107	2.28	7.7	1.2	<0.5	4.5	5	<0.1	0.4	0.2	48	0.04	0.022
L-Y-24	Soil			1.6	21.9	12.8	52	<0.1	19.5	8.0	163	2.39	10.1	2.4	2.2	6.4	7	0.1	0.5	0.2	41	0.05	0.017
L-Y-25	Soil			3.7	22.7	84.4	88	0.7	21.5	14.7	385	3.05	14.7	8.5	<0.5	7.4	15	0.8	0.5	0.3	62	0.15	0.034
L-Y-26	Soil			1.4	17.9	10.5	56	<0.1	17.4	6.5	149	2.17	9.1	0.7	1.0	4.2	7	<0.1	0.5	0.1	44	0.05	0.013
L-Y-27	Soil			1.4	24.3	11.6	57	<0.1	18.2	6.9	165	2.41	10.6	2.1	1.0	5.9	8	<0.1	0.7	0.2	38	0.06	0.019
L-Y-28	Soil			1.8	17.8	10.7	46	<0.1	15.1	5.8	139	2.12	9.9	3.8	1.0	4.9	6	<0.1	0.6	0.2	41	0.04	0.013
L-Y-29	Soil			7.8	12.4	22.1	41	0.1	13.1	4.3	207	2.07	31.5	38.5	<0.5	11.9	22	0.1	1.3	0.4	40	0.18	0.042
L-Y-33	Soil			1.8	12.1	11.0	69	<0.1	16.1	6.3	143	2.26	9.4	1.3	0.7	3.6	11	0.1	0.5	0.2	41	0.18	0.020
L-Y-34	Soil			1.6	22.5	11.7	61	<0.1	17.9	6.3	144	2.21	11.8	0.7	1.0	3.7	12	0.1	1.0	0.2	33	0.13	0.034
L-Y-35	Soil			1.6	24.0	9.5	57	<0.1	19.0	7.3	144	2.11	9.2	1.8	<0.5	4.7	10	<0.1	0.9	0.1	29	0.09	0.023
L-Y-36	Soil			1.8	14.7	12.3	71	<0.1	14.3	5.1	151	2.19	9.0	4.3	<0.5	2.6	12	0.3	0.3	0.2	53	0.16	0.027

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Project: Roop L  
 Report Date: October 12, 2010

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
L-Y-3	Soil			19	20	0.44	438	0.047	<20	1.04	0.010	0.09	0.7	0.06	1.9	0.2	<0.05	4	<0.5	<0.2
L-Y-4	Soil			14	17	0.36	127	0.049	<20	1.01	0.007	0.05	0.4	0.01	1.5	0.2	<0.05	4	<0.5	<0.2
L-Y-5	Soil			16	20	0.42	232	0.041	<20	1.13	0.013	0.07	0.6	0.04	1.7	0.2	<0.05	5	<0.5	<0.2
L-Y-6	Soil			15	18	0.37	203	0.035	<20	1.02	0.007	0.08	0.3	0.03	1.5	0.2	<0.05	4	<0.5	<0.2
L-Y-7	Soil			11	23	0.37	237	0.035	<20	1.48	0.004	0.06	0.4	0.01	2.0	0.1	<0.05	4	<0.5	0.4
L-Y-8	Soil			11	22	0.35	202	0.030	<20	1.22	0.006	0.04	<0.1	0.02	1.5	0.1	<0.05	4	<0.5	<0.2
L-Y-9	Soil			14	23	0.43	296	0.045	<20	1.10	0.019	0.11	0.6	0.02	2.0	0.2	<0.05	3	<0.5	0.3
L-Y-10	Soil			50	29	0.48	981	0.029	<20	2.26	0.018	0.15	0.3	0.10	3.6	0.4	0.07	6	1.0	<0.2
L-Y-11	Soil			10	17	0.28	120	0.029	<20	0.96	0.003	0.04	0.1	0.01	1.3	0.1	<0.05	3	<0.5	<0.2
L-Y-12	Soil			16	24	0.36	177	0.027	<20	1.47	0.006	0.04	0.6	<0.01	2.2	0.1	<0.05	4	<0.5	<0.2
L-Y-13	Soil			11	25	0.45	154	0.068	<20	1.23	0.009	0.06	0.4	0.02	2.0	0.2	<0.05	6	<0.5	0.2
L-Y-14	Soil			19	12	0.38	261	0.035	<20	1.11	0.010	0.10	0.2	0.06	2.0	0.2	0.08	4	<0.5	<0.2
L-Y-15	Soil			12	21	0.28	115	0.021	<20	1.30	0.003	0.03	<0.1	0.01	1.6	0.1	<0.05	4	<0.5	0.2
L-Y-16	Soil			13	25	0.35	259	0.027	<20	1.60	0.005	0.04	<0.1	0.02	2.4	0.2	<0.05	5	<0.5	<0.2
L-Y-17	Soil			19	23	0.49	335	0.044	<20	1.34	0.015	0.09	0.2	0.05	2.6	0.2	<0.05	5	<0.5	<0.2
L-Y-18	Soil			15	18	0.36	196	0.038	<20	1.00	0.010	0.07	0.2	0.05	1.6	0.2	<0.05	4	<0.5	<0.2
L-Y-19	Soil			15	20	0.34	166	0.039	<20	1.22	0.006	0.08	0.6	0.03	1.7	0.2	<0.05	5	<0.5	<0.2
L-Y-21	Soil			19	22	0.38	269	0.029	<20	1.26	0.006	0.04	<0.1	0.03	2.4	0.1	<0.05	3	<0.5	<0.2
L-Y-22	Soil			18	25	0.36	185	0.031	<20	1.53	0.005	0.04	0.2	0.03	2.9	<0.1	<0.05	5	0.6	<0.2
L-Y-23	Soil			13	18	0.24	69	0.036	<20	1.38	0.004	0.02	0.1	0.03	1.4	0.1	<0.05	6	<0.5	<0.2
L-Y-24	Soil			16	22	0.35	206	0.029	<20	1.46	0.005	0.04	0.1	0.03	2.6	0.1	<0.05	4	<0.5	<0.2
L-Y-25	Soil			16	29	0.48	343	0.061	<20	2.12	0.011	0.09	0.3	0.02	3.0	0.4	<0.05	8	<0.5	<0.2
L-Y-26	Soil			15	21	0.33	305	0.021	<20	1.33	0.006	0.02	<0.1	0.02	2.2	0.1	<0.05	4	<0.5	<0.2
L-Y-27	Soil			16	21	0.37	234	0.031	<20	1.27	0.006	0.05	0.1	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
L-Y-28	Soil			15	19	0.27	168	0.021	<20	1.19	0.003	0.03	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
L-Y-29	Soil			18	23	0.41	122	0.084	<20	1.24	0.013	0.05	0.5	0.03	1.6	0.4	<0.05	8	<0.5	<0.2
L-Y-33	Soil			14	19	0.37	247	0.015	<20	1.25	0.003	0.05	<0.1	0.02	1.8	0.1	<0.05	4	0.6	<0.2
L-Y-34	Soil			14	16	0.25	629	0.010	<20	1.00	0.003	0.03	<0.1	0.17	1.6	<0.1	<0.05	3	<0.5	<0.2
L-Y-35	Soil			16	16	0.28	425	0.012	<20	0.95	0.003	0.03	<0.1	0.11	2.0	<0.1	<0.05	3	0.9	<0.2
L-Y-36	Soil			13	21	0.31	327	0.014	<20	1.28	0.005	0.06	<0.1	0.13	1.9	0.1	<0.05	5	<0.5	<0.2

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Project: Roop L  
 Report Date: October 12, 2010

Page: 12 of 12 Part 1

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Method	Analyte	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-Y-37	Soil	1.5	14.9	15.2	66	0.1	16.7	6.8	273	2.66	10.9	0.4	<0.5	2.2	15	0.2	0.6	0.2	49	0.18	0.035
L-Z01	Soil	0.7	10.9	7.6	46	0.1	10.6	4.2	153	1.26	3.7	1.9	<0.5	1.4	11	0.1	0.2	0.2	23	0.10	0.034
L-Z02	Soil	0.5	8.6	6.3	36	0.1	8.4	2.8	85	1.02	3.4	2.0	<0.5	1.0	11	<0.1	0.2	0.2	17	0.14	0.032
L-Z03	Soil	0.3	9.2	6.8	24	0.1	7.6	1.9	57	0.89	2.8	2.6	0.8	1.6	13	<0.1	0.2	0.2	13	0.14	0.027
L-Z04	Soil	0.7	12.5	10.1	38	0.2	13.0	4.2	98	1.25	4.0	4.4	1.6	1.7	13	0.1	0.3	0.2	18	0.14	0.039
L-Z05	Soil	1.2	12.1	10.3	55	0.2	13.2	6.1	183	1.73	6.5	4.3	0.8	4.8	14	<0.1	0.3	0.2	33	0.18	0.026
L-Z06	Soil	1.1	18.8	13.8	56	0.2	13.8	6.3	213	1.93	7.1	9.5	1.0	4.2	10	<0.1	0.3	0.2	32	0.10	0.039
L-Z07	Soil	0.9	19.4	11.4	59	<0.1	17.1	6.8	204	1.74	7.5	4.8	5.9	3.9	13	0.2	0.3	0.2	28	0.16	0.041
L-Z08	Soil	2.4	4.7	13.9	29	<0.1	6.5	2.2	65	2.34	5.5	0.6	0.6	2.9	5	<0.1	0.4	0.3	70	0.04	0.017
L-Z09	Soil	0.9	21.0	15.5	56	<0.1	22.2	8.0	179	2.29	10.7	0.8	<0.5	5.0	7	0.2	0.5	0.2	37	0.06	0.024
L-Z10	Soil	0.4	9.6	6.4	11	<0.1	3.9	0.9	23	0.44	1.0	3.2	<0.5	1.3	9	0.1	<0.1	0.1	13	0.10	0.012
L-Z11	Soil	0.9	24.5	13.4	78	0.3	20.1	6.0	150	1.75	4.6	14.6	0.7	3.0	28	0.3	0.3	0.2	28	0.42	0.053
L-Z12	Soil	1.7	18.3	18.2	81	0.2	19.5	7.0	145	1.87	8.4	11.9	0.9	3.0	23	0.2	0.4	0.3	42	0.34	0.058
L-Z13	Soil	2.5	11.7	15.8	57	0.3	11.7	10.3	383	4.75	7.2	2.1	<0.5	7.2	37	<0.1	0.3	0.2	99	0.24	0.036
L-Z14	Soil	0.8	19.1	14.9	43	0.3	18.7	6.5	119	2.11	7.0	1.0	<0.5	4.7	5	<0.1	0.3	0.2	29	0.05	0.013
L-Z15	Soil	2.9	15.3	14.8	54	0.1	20.1	7.5	147	2.59	10.6	1.2	<0.5	4.2	5	0.1	0.5	0.2	41	0.05	0.019
L-Z16	Soil	3.7	16.0	18.8	65	0.1	17.3	26.2	1202	2.55	12.5	7.1	<0.5	4.4	22	0.1	0.5	0.4	43	0.28	0.039
L-Z17	Soil	1.5	4.5	4.7	19	<0.1	4.3	1.3	64	0.63	2.3	1.4	<0.5	1.4	7	0.2	0.2	0.1	18	0.06	0.014
L-Z18	Soil	2.5	30.7	17.6	53	0.3	20.6	8.4	280	1.84	8.2	34.8	<0.5	4.4	20	0.3	0.4	0.3	34	0.30	0.046
L-Z19	Soil	1.6	27.1	11.7	47	<0.1	24.0	8.1	153	2.64	13.4	1.3	<0.5	4.5	9	<0.1	0.6	0.2	46	0.08	0.022



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Project: Roop L  
 Report Date: October 12, 2010

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI10000504.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2	
L-Y-37	Soil	11	21	0.30	481	0.013	<20	1.35	0.006	0.03	0.1	0.04	1.8	<0.1	<0.05	4	<0.5	<0.2
L-Z01	Soil	12	15	0.30	188	0.030	<20	0.84	0.009	0.05	0.1	0.03	1.4	0.2	<0.05	4	<0.5	<0.2
L-Z02	Soil	11	14	0.25	129	0.025	<20	0.67	0.009	0.05	0.2	0.03	1.0	0.1	<0.05	3	<0.5	<0.2
L-Z03	Soil	12	13	0.21	134	0.022	<20	0.67	0.008	0.05	0.2	0.05	1.2	0.2	<0.05	4	0.6	<0.2
L-Z04	Soil	15	16	0.28	217	0.025	<20	0.80	0.009	0.04	0.1	0.04	1.4	0.2	<0.05	3	<0.5	<0.2
L-Z05	Soil	16	18	0.36	231	0.044	<20	0.98	0.007	0.06	0.8	0.02	1.7	0.2	<0.05	4	<0.5	<0.2
L-Z06	Soil	19	20	0.36	146	0.041	<20	1.12	0.007	0.06	0.2	0.04	2.0	0.2	<0.05	4	<0.5	<0.2
L-Z07	Soil	14	18	0.39	248	0.041	<20	1.08	0.012	0.07	0.1	0.02	1.8	0.2	<0.05	4	<0.5	<0.2
L-Z08	Soil	8	12	0.11	80	0.089	<20	0.83	0.007	0.02	<0.1	0.01	0.8	0.1	<0.05	10	<0.5	<0.2
L-Z09	Soil	13	22	0.35	188	0.031	<20	1.30	0.007	0.04	0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
L-Z10	Soil	12	<1	0.07	117	0.014	<20	0.39	0.006	0.03	0.1	<0.01	0.6	0.1	<0.05	3	<0.5	<0.2
L-Z11	Soil	19	25	0.45	351	0.029	<20	1.34	0.012	0.10	0.3	0.10	2.5	0.3	0.08	5	<0.5	<0.2
L-Z12	Soil	18	25	0.47	320	0.034	<20	1.35	0.009	0.10	0.2	0.08	2.4	0.2	0.07	5	0.7	<0.2
L-Z13	Soil	13	40	1.00	214	0.140	<20	3.20	0.018	0.09	0.1	0.02	2.7	0.2	<0.05	16	<0.5	<0.2
L-Z14	Soil	12	18	0.28	155	0.030	<20	1.34	0.003	0.06	0.1	0.01	1.7	0.1	<0.05	4	<0.5	0.3
L-Z15	Soil	10	23	0.30	101	0.035	<20	1.59	0.003	0.04	0.2	0.02	1.7	0.1	<0.05	5	<0.5	<0.2
L-Z16	Soil	13	22	0.43	238	0.055	<20	1.12	0.009	0.10	0.3	0.04	1.8	0.2	<0.05	5	0.6	0.2
L-Z17	Soil	9	7	0.07	118	0.014	<20	0.41	0.004	0.04	<0.1	0.02	0.6	<0.1	<0.05	2	<0.5	0.2
L-Z18	Soil	21	21	0.36	357	0.042	<20	1.16	0.013	0.05	0.4	0.03	2.2	0.2	<0.05	5	<0.5	<0.2
L-Z19	Soil	12	26	0.41	184	0.040	<20	1.65	0.007	0.05	0.1	0.02	2.3	0.2	<0.05	5	<0.5	0.2





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Project: Roop L  
Report Date: October 12, 2010

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI10000504.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
LA29	Soil	1.0	15.6	3.4	49	0.2	8.6	1.5	141	0.26	0.9	13.8	<0.5	0.7	37	0.7	0.2	<0.1	<2	0.67	0.038
REP LA29	QC	0.9	15.8	3.1	50	0.2	8.8	1.4	144	0.25	0.9	12.6	<0.5	0.7	37	0.8	0.2	<0.1	2	0.66	0.038
L-B-32	Soil	1.9	37.1	18.1	59	<0.1	27.0	9.8	155	2.93	11.2	2.7	1.7	5.2	7	0.2	0.5	0.4	38	0.06	0.026
REP L-B-32	QC	1.9	36.5	18.8	62	<0.1	27.7	9.2	156	2.97	10.9	2.6	2.2	5.1	7	0.1	0.5	0.3	38	0.06	0.027
L-C36	Soil	0.7	9.6	8.6	15	0.3	5.9	1.6	31	0.65	2.6	0.8	<0.5	0.3	6	<0.1	0.1	0.2	22	0.05	0.016
REP L-C36	QC	0.7	9.8	8.5	14	0.3	6.1	1.5	31	0.62	2.4	0.9	<0.5	0.3	6	0.1	0.1	0.2	21	0.04	0.016
LE17	Soil	1.8	33.6	18.1	96	0.2	37.3	26.6	987	1.82	9.6	3.3	1.4	6.2	51	0.8	0.3	0.5	14	0.97	0.069
REP LE17	QC	1.6	35.6	19.2	99	0.2	36.5	28.0	995	1.95	10.8	3.3	2.1	6.4	49	0.8	0.3	0.4	19	0.99	0.070
LF12	Soil	1.3	17.8	15.3	51	0.2	20.0	8.0	190	2.77	10.5	0.7	2.2	4.0	8	<0.1	0.6	0.2	45	0.06	0.033
REP LF12	QC	1.2	17.9	15.3	50	0.2	19.6	7.9	188	2.76	10.7	0.7	1.7	3.8	8	0.1	0.6	0.2	45	0.07	0.032
LF33	Soil	0.8	19.2	10.7	60	0.2	24.5	7.1	151	1.94	7.3	0.9	1.7	3.1	15	0.1	0.2	0.2	29	0.15	0.043
REP LF33	QC	0.8	20.0	10.1	66	0.1	25.3	7.6	166	2.13	8.1	0.9	2.0	3.1	14	<0.1	0.2	0.2	30	0.16	0.041
L-G-35	Soil	0.8	34.8	14.1	86	0.2	30.8	9.9	286	2.44	10.9	2.2	2.5	3.5	19	0.3	0.3	0.3	35	0.20	0.045
REP L-G-35	QC	0.8	33.8	13.2	84	0.2	30.4	9.5	278	2.32	10.4	2.1	2.2	3.1	19	0.2	0.3	0.3	34	0.18	0.047
L-Y-15	Soil	2.9	12.1	12.1	39	<0.1	12.6	4.8	126	2.45	10.6	1.3	0.9	3.4	6	<0.1	0.4	0.2	48	0.04	0.019
REP L-Y-15	QC	3.1	12.9	12.4	40	<0.1	13.3	5.2	128	2.57	10.9	1.3	0.9	3.5	6	<0.1	0.5	0.2	52	0.05	0.019
Reference Materials																					
STD DS7	Standard	22.8	106.8	64.3	377	1.0	55.9	9.4	600	2.33	51.1	4.8	65.1	4.5	80	6.1	5.0	4.4	81	0.88	0.083
STD DS7	Standard	21.6	109.2	68.3	411	0.9	58.9	9.9	613	2.39	54.0	4.9	63.2	4.7	72	6.9	5.3	5.0	86	0.97	0.088
STD DS7	Standard	23.4	115.7	71.5	399	1.0	54.4	9.8	625	2.34	56.7	5.1	67.4	4.7	74	6.9	5.4	5.0	89	0.94	0.081
STD DS7	Standard	20.9	106.8	73.9	381	1.4	51.9	8.6	619	2.25	52.1	5.2	57.6	4.6	79	6.1	5.7	5.3	83	0.90	0.077
STD DS7	Standard	20.3	103.4	76.9	405	1.0	54.9	8.9	618	2.43	53.1	5.4	65.9	5.1	80	6.6	6.2	5.4	84	0.94	0.077
STD DS7	Standard	22.7	104.8	62.7	397	1.0	57.7	9.8	601	2.39	51.5	4.5	61.3	4.3	72	6.3	4.8	4.3	83	0.91	0.077
STD DS7	Standard	20.7	103.5	68.1	402	1.0	52.0	9.3	604	2.32	56.7	4.9	56.5	4.6	74	6.9	5.8	4.5	84	0.92	0.081
STD DS7	Standard	20.8	113.3	64.7	386	1.0	54.6	9.5	590	2.31	53.4	4.9	58.1	4.5	78	6.8	5.4	4.6	87	0.97	0.077
STD DS7	Standard	20.7	106.4	66.9	413	1.0	55.8	9.4	629	2.38	54.7	4.9	56.6	4.6	76	6.4	4.8	4.6	85	0.94	0.077
STD OREAS45PA	Standard	0.9	561.6	17.5	111	0.3	276.7	101.4	1057	16.14	4.7	1.1	50.8	6.5	14	0.1	0.2	0.2	204	0.23	0.035
STD OREAS45PA	Standard	0.9	573.7	17.1	113	0.3	264.3	102.2	983	15.70	4.4	1.1	44.2	6.4	13	<0.1	0.1	0.2	199	0.22	0.037

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: Roop L  
 Report Date: October 12, 2010

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI10000504.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
LA29	Soil	7	6	0.04	461	0.006	<20	0.19	0.026	<0.01	<0.1	0.06	0.8	<0.1	0.15	<1	<0.5	<0.2
REP LA29	QC	6	6	0.04	460	0.006	<20	0.19	0.024	<0.01	<0.1	0.06	0.9	<0.1	0.14	<1	0.5	<0.2
L-B-32	Soil	13	27	0.41	140	0.039	<20	1.89	0.005	0.07	0.2	0.03	2.2	0.2	<0.05	5	<0.5	<0.2
REP L-B-32	QC	12	27	0.41	142	0.039	<20	1.89	0.005	0.07	0.2	0.03	2.1	0.2	<0.05	5	<0.5	<0.2
L-C36	Soil	10	10	0.10	130	0.010	<20	0.72	0.005	0.04	<0.1	0.01	0.7	0.1	<0.05	4	<0.5	<0.2
REP L-C36	QC	10	11	0.10	131	0.008	<20	0.72	0.005	0.04	<0.1	0.01	0.6	0.1	<0.05	4	<0.5	<0.2
LE17	Soil	28	24	0.45	128	0.067	<20	1.32	0.025	0.27	0.7	0.35	1.3	0.3	0.13	4	<0.5	<0.2
REP LE17	QC	28	23	0.49	124	0.069	<20	1.34	0.024	0.28	2.0	0.35	1.5	0.3	0.14	4	0.5	<0.2
LF12	Soil	12	26	0.42	199	0.032	<20	1.77	0.007	0.05	0.2	0.04	2.1	0.1	<0.05	5	0.7	<0.2
REP LF12	QC	12	26	0.42	197	0.034	<20	1.79	0.008	0.05	0.1	0.03	2.1	0.1	<0.05	5	0.8	<0.2
LF33	Soil	15	25	0.52	177	0.047	<20	1.51	0.012	0.14	0.2	0.05	1.8	0.2	<0.05	5	<0.5	<0.2
REP LF33	QC	14	27	0.51	174	0.051	<20	1.51	0.012	0.14	<0.1	0.04	1.9	0.2	<0.05	5	<0.5	<0.2
L-G-35	Soil	19	31	0.53	248	0.050	<20	1.61	0.009	0.14	0.1	0.07	2.6	0.2	<0.05	5	0.6	<0.2
REP L-G-35	QC	18	28	0.52	233	0.049	<20	1.62	0.007	0.13	0.1	0.07	2.4	0.2	<0.05	5	0.5	<0.2
L-Y-15	Soil	12	21	0.28	115	0.021	<20	1.30	0.003	0.03	<0.1	0.01	1.6	0.1	<0.05	4	<0.5	0.2
REP L-Y-15	QC	12	21	0.28	116	0.023	<20	1.31	0.005	0.03	<0.1	0.02	1.8	0.1	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	14	184	1.06	423	0.119	43	1.06	0.110	0.45	3.4	0.23	2.3	4.2	0.18	5	3.6	1.3
STD DS7	Standard	13	188	1.09	427	0.115	41	1.03	0.106	0.49	3.6	0.23	2.5	4.2	0.21	5	3.1	1.2
STD DS7	Standard	13	185	1.03	392	0.119	32	1.03	0.103	0.45	3.4	0.20	2.6	4.3	0.20	5	3.5	1.1
STD DS7	Standard	12	186	1.00	387	0.122	27	0.96	0.090	0.43	3.4	0.20	2.3	4.0	0.18	4	3.0	1.0
STD DS7	Standard	13	186	1.01	387	0.134	38	0.99	0.100	0.47	3.1	0.21	2.6	4.3	0.23	5	3.2	0.6
STD DS7	Standard	12	177	1.04	390	0.122	37	0.95	0.088	0.44	3.7	0.21	2.3	4.1	0.20	5	2.6	1.2
STD DS7	Standard	13	180	1.02	408	0.126	36	1.03	0.099	0.45	3.3	0.23	2.7	4.2	0.20	5	3.3	1.5
STD DS7	Standard	14	190	1.04	388	0.129	43	1.00	0.103	0.45	3.4	0.22	2.9	3.9	0.16	5	3.3	1.1
STD DS7	Standard	13	191	1.04	409	0.122	37	1.04	0.097	0.45	3.3	0.22	2.6	4.2	0.18	5	3.3	1.6
STD OREAS45PA	Standard	16	705	0.11	187	0.137	<20	3.30	0.012	0.07	<0.1	0.03	41.2	<0.1	<0.05	16	0.6	<0.2
STD OREAS45PA	Standard	15	769	0.11	179	0.114	<20	3.14	0.014	0.07	<0.1	0.02	41.3	<0.1	<0.05	16	0.8	0.3

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Project: Roop L

Report Date: October 12, 2010

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI10000504.1

		1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX U ppm 0.1	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01	1DX P % 0.001
STD OREAS45PA	Standard	0.9	541.8	19.2	110	0.3	253.6	92.7	943	15.48	4.7	1.2	48.8	6.6	13	0.1	0.1	0.2	188	0.20	0.031
STD OREAS45PA	Standard	0.9	536.7	18.7	116	0.3	264.1	101.4	1047	15.64	5.3	1.3	42.1	6.9	15	0.1	0.2	0.2	187	0.22	0.032
STD OREAS45PA	Standard	0.9	538.1	18.3	117	0.3	271.8	97.0	1018	15.04	4.4	1.2	42.1	6.7	15	<0.1	0.1	0.2	186	0.22	0.035
STD OREAS45PA	Standard	0.8	550.1	17.1	111	0.3	256.0	97.1	1013	16.12	5.2	1.0	46.2	6.0	14	0.1	0.1	0.2	185	0.21	0.032
STD OREAS45PA	Standard	0.9	576.0	17.9	115	0.3	269.5	103.2	1018	16.55	5.1	1.1	45.2	6.5	14	<0.1	0.1	0.2	189	0.22	0.034
STD OREAS45PA	Standard	0.9	605.2	17.8	112	0.3	283.0	102.8	1038	16.62	4.9	1.1	44.4	6.4	14	0.1	0.1	0.2	182	0.22	0.034
STD OREAS45PA	Standard	1.0	576.9	18.2	113	0.3	279.6	102.1	1023	16.52	5.3	1.1	48.7	6.4	13	<0.1	0.1	0.2	205	0.22	0.031
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
STD OREAS45PA Expected		0.9	600	19	119	0.3	281	104	1130	16.559	4.2	1.2	43	6	14	0.09	0.13	0.18	221	0.2411	0.034
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: Roop L

Report Date: October 12, 2010

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI10000504.1

		1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Sc ppm	1DX Ti ppm	1DX S %	1DX Ga ppm	1DX Se ppm	1DX Te ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD OREAS45PA	Standard	15	696	0.10	180	0.112	<20	2.95	0.010	0.06	<0.1	0.03	36.4	<0.1	<0.05	16	0.8	<0.2
STD OREAS45PA	Standard	16	711	0.11	175	0.135	<20	3.11	0.011	0.07	<0.1	0.03	39.0	<0.1	<0.05	16	<0.5	<0.2
STD OREAS45PA	Standard	15	686	0.12	163	0.135	<20	3.23	0.012	0.07	<0.1	0.02	39.9	<0.1	0.05	16	0.9	<0.2
STD OREAS45PA	Standard	16	708	0.11	177	0.138	<20	3.21	0.012	0.07	<0.1	0.01	42.4	<0.1	<0.05	17	<0.5	<0.2
STD OREAS45PA	Standard	16	712	0.11	177	0.128	<20	3.26	0.013	0.07	<0.1	0.03	44.2	<0.1	<0.05	18	0.8	<0.2
STD OREAS45PA	Standard	16	735	0.12	176	0.135	<20	3.29	0.013	0.07	<0.1	0.03	46.8	<0.1	<0.05	17	<0.5	<0.2
STD OREAS45PA	Standard	15	783	0.10	174	0.137	<20	3.25	0.009	0.07	<0.1	0.03	41.6	<0.1	<0.05	17	0.7	<0.2
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
STD OREAS45PA Expected		16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	43	0.07	0.03	16.8	0.54	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Lauren Blackburn
Receiving Lab: Canada-Whitehorse
Received: September 22, 2010
Report Date: October 12, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI10000565.1

CLIENT JOB INFORMATION

Project: Roop L
Shipment ID:
P.O. Number
Number of Samples: 20

SAMPLE DISPOSAL

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

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

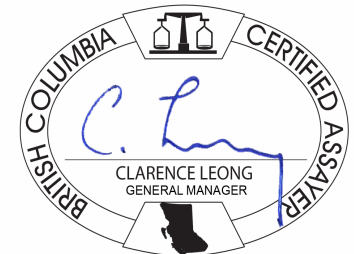
Invoice To: Keno Hill Exploration
PO Box 15
Keno City YT Y0B 1M0
Canada

CC: Keno Hill

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, RJSV, and 1DX1.

ADDITIONAL COMMENTS



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



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Project: Roop L  
 Report Date: October 12, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI10000565.1

Method	Analyte	Unit	MDL	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
L-Z20	Soil			2.0	35.9	16.2	56	0.5	20.4	9.6	325	1.66	7.8	52.8	<0.5	3.2	25	0.5	0.4	0.3	28	0.28	0.045
L-Z21	Soil			1.4	36.0	14.8	55	<0.1	30.8	9.2	174	2.84	12.3	1.1	15.4	4.1	7	<0.1	0.6	0.2	45	0.06	0.020
L-Z22	Soil			1.3	3.8	16.3	12	0.2	3.6	1.5	36	1.09	2.3	2.0	1.5	1.1	3	<0.1	0.2	0.4	46	0.03	0.019
L-Z23	Soil			2.9	5.9	11.1	27	<0.1	6.4	2.1	65	2.19	9.3	2.8	<0.5	2.7	3	<0.1	0.6	0.3	60	0.02	0.024
L-Z24	Soil			1.2	27.0	14.7	62	<0.1	30.2	11.6	172	2.58	12.2	0.5	1.4	4.4	8	0.2	0.7	0.2	38	0.06	0.033
L-Z25	Soil			3.9	10.0	17.6	42	0.1	13.4	6.8	109	2.41	7.8	4.2	1.0	3.6	9	<0.1	0.3	0.3	54	0.11	0.020
L-Z26	Soil			3.9	25.1	14.6	79	0.3	19.7	12.9	1220	1.91	9.3	112.9	1.5	2.5	27	0.3	0.5	0.3	30	0.68	0.069
L-Z27	Soil			1.4	10.9	13.5	37	<0.1	11.0	4.4	97	2.16	9.2	6.3	<0.5	3.5	6	<0.1	0.3	0.4	49	0.05	0.027
L-Z28	Soil			1.3	26.0	12.8	55	0.1	24.0	8.8	215	2.30	9.7	1.4	1.9	4.5	11	<0.1	0.6	0.2	37	0.11	0.039
L-Z29	Soil			3.7	26.8	18.9	78	0.3	32.9	13.0	192	3.73	20.0	3.4	<0.5	5.0	6	0.2	0.5	0.3	61	0.06	0.042
L-Z30	Soil			1.1	7.6	7.0	31	<0.1	9.7	3.6	101	1.91	5.5	1.2	<0.5	2.3	5	<0.1	0.2	0.2	39	0.05	0.017
L-Z31	Soil			0.9	25.8	10.8	47	0.1	22.3	8.4	148	2.05	8.6	0.8	1.1	4.6	7	<0.1	0.5	0.2	30	0.05	0.019
L-Z32	Soil			1.6	11.3	9.8	44	<0.1	13.4	5.6	127	2.08	8.8	1.7	1.0	3.8	6	<0.1	0.4	0.2	36	0.04	0.020
L-Z33	Soil			1.4	20.1	12.1	45	<0.1	19.1	6.9	125	2.32	10.0	1.2	1.3	5.1	6	<0.1	0.5	0.2	39	0.05	0.014
L-Z34	Soil			2.5	13.1	23.5	81	0.1	18.1	14.5	842	2.92	12.8	9.4	2.3	6.1	18	0.3	0.3	0.9	49	0.37	0.034
L-Z35	Soil			1.6	14.7	10.7	55	<0.1	16.4	6.7	183	2.26	8.9	1.1	<0.5	5.2	12	0.1	0.4	0.2	31	0.15	0.061
L-Z37	Soil			1.6	6.9	8.1	32	<0.1	7.8	2.6	62	1.04	3.9	2.5	<0.5	3.1	11	<0.1	0.2	0.1	26	0.19	0.015
L-Z38	Soil			1.9	44.4	20.3	95	0.2	36.2	12.4	307	3.42	17.6	1.2	2.4	6.5	10	0.3	0.8	0.3	51	0.05	0.031
L-Z39	Soil			2.0	23.3	16.6	90	0.3	27.3	11.6	291	3.22	15.7	0.6	0.9	3.7	8	0.4	0.6	0.3	59	0.05	0.044
L-Z40	Soil			1.9	35.8	22.1	120	0.4	30.1	11.9	1296	2.86	14.3	2.0	0.7	2.2	46	0.7	0.7	0.3	45	0.73	0.057



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Project: Roop L  
 Report Date: October 12, 2010

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

WHI10000565.1

Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
L-Z20	Soil	25	19	0.28	556	0.020	<20	1.25	0.013	0.06	<0.1	0.04	2.5	0.2	<0.05	5	0.5	<0.2
L-Z21	Soil	10	29	0.49	176	0.053	<20	1.69	0.006	0.04	0.2	0.06	2.5	0.2	<0.05	6	0.6	<0.2
L-Z22	Soil	6	8	0.09	63	0.093	<20	0.63	0.008	0.02	<0.1	0.02	0.5	<0.1	<0.05	8	<0.5	<0.2
L-Z23	Soil	9	11	0.09	55	0.044	<20	0.74	0.003	0.02	0.1	0.02	0.9	<0.1	<0.05	7	<0.5	0.3
L-Z24	Soil	11	25	0.36	191	0.024	<20	1.54	0.004	0.05	0.1	0.05	1.8	0.1	<0.05	3	<0.5	<0.2
L-Z25	Soil	12	21	0.27	214	0.059	<20	1.38	0.006	0.03	<0.1	<0.01	1.6	0.1	<0.05	7	<0.5	<0.2
L-Z26	Soil	21	17	0.30	259	0.026	<20	1.16	0.009	0.07	0.4	0.05	1.9	0.2	0.07	4	0.8	<0.2
L-Z27	Soil	12	16	0.17	146	0.018	<20	1.22	0.002	0.03	0.1	<0.01	1.3	0.1	<0.05	5	<0.5	<0.2
L-Z28	Soil	15	23	0.37	300	0.027	<20	1.25	0.005	0.04	0.1	0.03	2.0	<0.1	<0.05	3	0.6	<0.2
L-Z29	Soil	9	36	0.47	187	0.057	<20	2.49	0.006	0.12	0.2	0.02	2.5	0.2	<0.05	6	<0.5	<0.2
L-Z30	Soil	10	13	0.19	149	0.022	<20	0.88	0.003	0.02	0.2	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
L-Z31	Soil	15	19	0.31	362	0.022	<20	1.12	0.004	0.03	0.1	0.04	1.9	<0.1	<0.05	3	<0.5	<0.2
L-Z32	Soil	14	17	0.24	155	0.019	<20	0.99	0.003	0.02	<0.1	0.02	1.3	<0.1	<0.05	3	<0.5	<0.2
L-Z33	Soil	15	21	0.28	135	0.019	<20	1.27	0.003	0.03	<0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
L-Z34	Soil	12	26	0.38	262	0.040	<20	1.45	0.014	0.06	0.4	0.01	2.0	0.3	<0.05	5	<0.5	<0.2
L-Z35	Soil	14	10	0.34	158	0.032	<20	1.00	0.005	0.05	0.4	0.03	1.3	0.1	<0.05	3	<0.5	<0.2
L-Z37	Soil	15	13	0.21	163	0.016	<20	0.73	0.005	0.05	<0.1	<0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
L-Z38	Soil	19	31	0.38	1211	0.023	<20	1.67	0.004	0.05	<0.1	0.20	4.5	0.1	<0.05	4	1.0	<0.2
L-Z39	Soil	12	30	0.37	531	0.019	<20	1.96	0.004	0.05	0.1	0.04	2.5	0.1	<0.05	5	<0.5	<0.2
L-Z40	Soil	9	19	0.29	868	0.009	<20	1.32	0.006	0.04	<0.1	0.14	2.4	0.1	<0.05	4	1.1	<0.2



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Project: Roop L  
 Report Date: October 12, 2010

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

WHI10000565.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
L-Z21	Soil	1.4	36.0	14.8	55	<0.1	30.8	9.2	174	2.84	12.3	1.1	15.4	4.1	7	<0.1	0.6	0.2	45	0.06	0.020
REP L-Z21	QC	1.4	34.9	13.6	54	<0.1	31.6	9.3	170	2.75	12.1	1.1	0.7	4.3	7	<0.1	0.6	0.2	45	0.06	0.020
L-Z34	Soil	2.5	13.1	23.5	81	0.1	18.1	14.5	842	2.92	12.8	9.4	2.3	6.1	18	0.3	0.3	0.9	49	0.37	0.034
REP L-Z34	QC	2.7	13.2	22.8	82	<0.1	18.3	15.1	877	3.03	13.2	9.6	<0.5	6.2	19	0.4	0.3	0.9	51	0.39	0.034
Reference Materials																					
STD DS7	Standard	20.7	103.5	68.1	402	1.0	52.0	9.3	604	2.32	56.7	4.9	56.5	4.6	74	6.9	5.8	4.5	84	0.92	0.081
STD DS7	Standard	20.5	104.6	64.0	387	1.3	54.9	9.2	575	2.18	48.9	4.3	53.2	4.1	69	6.1	4.8	4.5	81	0.85	0.079
STD OREAS45PA	Standard	0.9	576.0	17.9	115	0.3	269.5	103.2	1018	16.55	5.1	1.1	45.2	6.5	14	<0.1	0.1	0.2	189	0.22	0.034
STD OREAS45PA	Standard	0.8	599.9	17.9	114	0.3	282.2	107.1	1015	16.31	4.6	1.1	45.3	6.2	14	0.1	<0.1	0.2	210	0.22	0.037
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
STD OREAS45PA Expected		0.9	600	19	119	0.3	281	104	1130	16.559	4.2	1.2	43	6	14	0.09	0.13	0.18	221	0.2411	0.034
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001





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**Project:** Roop L

**Report Date:** October 12, 2010

**Page:** 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI10000565.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
L-Z21	Soil	10	29	0.49	176	0.053	<20	1.69	0.006	0.04	0.2	0.06	2.5	0.2	<0.05	6	0.6	<0.2
REP L-Z21	QC	10	29	0.49	174	0.053	<20	1.66	0.006	0.05	0.1	0.02	2.5	0.1	<0.05	5	<0.5	<0.2
L-Z34	Soil	12	26	0.38	262	0.040	<20	1.45	0.014	0.06	0.4	0.01	2.0	0.3	<0.05	5	<0.5	<0.2
REP L-Z34	QC	12	26	0.39	271	0.039	<20	1.49	0.016	0.06	0.3	0.01	1.9	0.3	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	13	180	1.02	408	0.126	36	1.03	0.099	0.45	3.3	0.23	2.7	4.2	0.20	5	3.3	1.5
STD DS7	Standard	13	182	0.97	381	0.117	27	0.98	0.090	0.42	3.2	0.22	2.3	4.1	0.20	4	3.2	1.2
STD OREAS45PA	Standard	16	712	0.11	177	0.128	<20	3.26	0.013	0.07	<0.1	0.03	44.2	<0.1	<0.05	18	0.8	<0.2
STD OREAS45PA	Standard	16	810	0.10	178	0.118	<20	3.18	0.011	0.07	<0.1	0.03	40.8	<0.1	<0.05	17	0.8	<0.2
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
STD OREAS45PA Expected		16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	43	0.07	0.03	16.8	0.54	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2