

**ALL-IN EXPLORATION SOLUTIONS INC.**

# YMIP Report for Quartz Claims MOO 1-280

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Jubilee Mountain Area

**Claim Owners: Edward Long, Riley Gibson, Nicolai Goepfel**

Location: 60°11' N, 134°06' W

NTS Map Sheet 105D01

Whitehorse Mining District

Yukon Territory

**Submitted on behalf of: All-In Exploration Solutions Inc.**

Edward Long, Riley Gibson & Casey Cardinal  
03/01/2014

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## Summary

The "MOO" claims are located in the southern Yukon Territory, approximately 85 km south of the City of Whitehorse. The claims cover the summit of Jubilee Mountain and several of its drainages, including Mosquito Creek, Moose Brook and Wolverine Creek. Moose Brook and Wolverine Creek are the sites of modern working placer operations. The claims are underlain by Lower Carboniferous to Middle Jurassic carbonates and ultramafics of the Cache Creek Terrane.

Soil and stream sediment sampling as well as targeted prospecting and hand trenching completed on the MOO claims during 2013 have revealed new areas of interest and produced numerous significant assay values. During field work in 2013 (June 9<sup>th</sup> and September 6<sup>th</sup> & 7<sup>th</sup>), an infill soils grid was completed over the areas to the north and south of the summit of Jubilee Mountain which were covered by the 100x200 m grid completed in 2012 (creating a 100x100 m grid within the areas). The grid was also extended in the south to include more of the area surrounding a number of anomalous Au, Ag and Cu values produced from 2012 soils, collected on a ridge southeast of the summit of Jubilee Mountain. A small number of soils were collected along a contour on the northern margin of the property on June 9<sup>th</sup>. In addition, stream sediment sampling was completed along Wolverine Creek to investigate where Au values as high as 52.4 ppb were found in stream sediment samples collected in 2006 by Joseph A.J. Clarke. In addition, some targeted prospecting and focused geological investigation of 11 different areas of interest was carried out by geologist Rick Zuran, B.Sc. Finally, a small hand trench was dug at the site where a 143 ppb Au soil was collected in 2012. Several soil and rock chip samples were collected along the trench, returning some highly anomalous Au values. During the 2013 regional program, a total of 357 soils, 13 stream sediment samples and 40 rock samples were collected at the Jubilee project.

Future work recommendations:

- 1) Detailed geological mapping of structural features and zones of contact in the MOO north block to help further define zones of mineralization within the area.
- 2) Infill soil sampling around areas with significant assay results, particularly to the north of the summit of Jubilee Mountain in the area surrounding the location of the hand trench.
- 3) Continued trenching at the anomaly to the north of the summit (using a Can-Dig mini excavator), as well as possible trenching over the zone of mineralization on the ridge southeast of the summit of Jubilee Mountain.
- 4) Reconnaissance ridge and spur soils in the south end of the property.

## Introduction

Jubilee Mountain is bounded by Tagish Lake to the west, Little Atlin Lake to the east, and Marsh Lake and the community of Tagish to the north. The MOO claims cover the summit of Jubilee Mountain, including Mosquito Creek, Moose Brook and Wolverine Creek drainages. Moose Brook and Wolverine Creek are the sites of modern placer operations. Both creeks are known to have angular gold which is found within post-Last Glacial Maximum (L.G.M.) surface deposits, suggesting minimal transportation and therefore a local source. The MOO claims are adjacent to the RyanGold Corp. GLEE claims on the western side of the property. The claims are underlain by Lower Carboniferous to Middle Jurassic carbonates and ultramafics of the Cache Creek Terrane. Initial staking of the MOO claims by All-In Exploration was motivated by the presence of an expansive geophysical high that had expired placer claims to the north and present placer operations to the southeast, in addition to several significant gold values from regional stream geochemistry samples. Further research into the area, specifically on MinFile occurrences 105D001 and 105D157, revealed significant historical gold and base metal values as well as the potential for multiple types of mineralization. The majority of claims lay in an area that was, until recently, proposed to be part of Carcross-Tagish First Nation settlement lands, leaving the area largely unexplored in the past. Soil sampling and prospecting completed on the MOO claims during 2011 and 2012 revealed several areas of interest and produced numerous significant assay values, especially in Au, Ag, Cu and Ni. The 2013 field season (September 6<sup>th</sup> and 7<sup>th</sup>) yielded some new areas of interest and a number of highly anomalous soil values in the same elements, warranting further detailed investigation of the zones of mineralization on the property.

## Location

Jubilee Mountain is located in the Whitehorse Mining District in NTS Map Sheet 105D01, approximately 85 km south of the City of Whitehorse, between Tagish and Little Atlin Lakes (Figure 1). The Jubilee project refers to Quartz Claims MOO 1 – MOO 280 (Figure 2), staked by All-In Exploration Solutions Inc. in May of 2011. The claims are centered on latitude 60°11' N and longitude 134°06' W.

Claim Number	Claim Owner	Grant Number	Expiry Date
MOO 1-44	All-In Exploration Solutions Inc.	YE54651 - YE54694	5/30/2014
MOO 45-164	All-In Exploration Solutions Inc.	YE54695 - YE54814	5/30/2013
MOO 165-178	Edward Long	YE54815 - YE54828	5/30/2013
MOO 179-212	Nicolai Goeppel	YE54829 - YE54862	5/30/2013
MOO 213-246	All-In Exploration Solutions Inc.	YE54863 - YE54896	5/30/2013
MOO 247-280	Riley Gibson	YE54897 - YE54930	5/30/2013

## Access

The Jubilee Project is located 85 km south of Whitehorse, Yukon Territory. Access is obtained by following the Alaska Highway south from Whitehorse to Jake's Corner, then driving 22 km west on the Tagish Road, followed by 7 km south to the Tagish fire tower and relay station. From there, a further 7 km on a 4x4 trail that goes above tree line ends within 2 km of the north end of the claim block. A secondary access to the southeastern portion of the claims is from the Atlin cut-off: 22 km south on the Atlin road, then west 3 km along a dirt road to the Lubbock River. At this point, access can be obtained by the road to placer operations on Wolverine Creek or Moose Brook. The majority of the claims are near or above tree line, with fairly consistent outcrop present throughout the property.

## History

First recorded interest in the area can be traced to the naming of Jubilee Mountain by Dr. G.M. Dawson of the Geological Survey of Canada in 1887. During the gold rush of 1898, adjacent Tagish Lake and Marsh Lake served as the main route taken by most stampeders on their way to the Klondike gold fields. Much of the first prospecting was likely done by these stampeders. The earliest claims on Jubilee Mountain date back to 1906 and covered the first recorded mineral occurrence in NTS Map Sheet 105D (105D 001). No drilling has been conducted on occurrence 105D 001; however, geophysics, trenching and prospecting were completed during the late 60's and 90's. Peak assay values were 1.5% Cu, 4.8 % Zn, 71 g/t Ag and traces of Au; the best chip sample from trenching returned 0.75% Cu, 0.05% Mo and 6.2 g/t Ag.

1.5 km north of occurrence 105D 001 lies occurrence 105D 157, likely first staked in 1906 and trenched along with occurrence 105D 001. In 1979 the claims were re-staked, and after passing through different hands for a few years, the property was optioned in 1981 by Golden Slipper Resources Inc. and Logan Mines Ltd. Shortly afterwards, 708.2 meters of drilling was completed over two years, in addition to

regional soil sampling and trenching. A vertically-dipping mineralized shear zone exceeding 1600 m in length and between 10-25 m in width was located, with an additional smaller shear running parallel. The average grade from seven trenches on the aforementioned shear zone was 9.3 g/t Au, 27.4 g/t Ag and 1.0% Cu. The highest grab sample from occurrence 105D 157 was 21 g/t Au, 8.9 g/t Ag, and 8865 ppm Cu, and other values such as 16 g/t and 14 g/t Au have been recorded. Mineralization was found to be erratic in pods, lenses, and stockwork veins, but widespread along the extent of the 1600 m shear zone.

Based on various regional stream geochemistry samples with prominent gold values within the MOO claims, and lineations which are observable in air photos, there is a high potential for other such shears to be located. The Jubilee Mountain region was, until recently, a proposed location of a C.T.F.N. Category A settlement block, and the settling of land claims in the Yukon's Southern Lakes area has opened the majority of land within the Jubilee project to exploration.

## Sampling Techniques

Soil samples were collected from the B or C soil horizon using a 5 ft. Dutch auger. Each sample was then put into a kraft soil sample bag, each sample weighing approximately 2 lbs. At each station, the soil sampler took notes and recorded the geographical coordinates of the location where the sample was collected. Each soil station was marked with fluorescent orange flagging. The soil preparation procedure was done by Acme Analytical Laboratories Ltd. in Whitehorse, which consists of drying the soil samples, then sieving them to -80 mesh.

Stream sediments were collected in ~10 kg bulk samples using a -12 mesh sieve; most samples were wet-sieved and only dry-sieved if there was no available water. Samples were further prepared by being split in half, and refining the samples down to -60 mesh at the Yukon Geological Survey shaker room in Whitehorse to remove the possibility of nugget effect. This sieved material was sent to Acme Analytical Laboratories Ltd. in Whitehorse, then sent down to Vancouver to be assayed. The other half of each silt sample was withheld for storage.

All samples were sent to Acme Analytical Laboratories Ltd. in Whitehorse for sample preparation, then sent down to Vancouver to be assayed. Both the soil and stream sediment samples were tested using 30 Element, Aqua Regia, ICP, and Au fire assay.

## Past Work & Prospecting

During the summer of 2011, 73 soil samples were taken on ridges and spurs at 250 m interval and limited prospecting was completed. Several anomalous soil samples were returned peaking at 75 ppb Au. The 73 soil samples returned a mean Au value of 15 ppb. Also, several anomalous arsenic values were returned, peaking at 2108 ppm (sample 16). As seen with sample 16, arsenic values typically coincide with elevated gold values. Elevated nickel and zinc values were also returned from many of the ridge and spur samples (sample 16 in particular). Interestingly, sample 16 also returned an anomalous Cu value of 1066 ppm, elevated Au (42 ppb), and highly anomalous Sb (181 ppm). During prospecting, an oxidized zone just south of the summit of Jubilee Mountain and approximately 500 m in diameter was located. This zone contained samples with massive disseminated sulphides. In the sample, pyrite, pyrrhotite, sphalerite and minor bornite and chalcopyrite were identified, and potentially cooperite. Assays from rock samples also yielded significant results. EL002, located near soil sample 16 returned values of 7.49% Cu, 79.4 ppm Ag, 1794 ppm Pb, 2745 ppm Zn, and 41 ppm Mo. Sample 004RG yielded 4112 ppm Cu, 1100 ppm Zn, and 20 ppm Sb. Sample 006b/EL had 1.38% Zn, 13 ppm Ag, and 156 ppm W.

During field work in 2012 (August 14-18), a 100x200 m soils grid was done over the area covered by the 2011 ridge and spur soils, including a small 100x100 m grid over an area which produced several anomalous results in 2011 (including sample 16). In addition, local stream sediment sampling was completed along all aspects of the mountain, with some more targeted prospecting. During the 2012 regional program, 222 soils, 12 stream sediment samples and 32 rock samples were collected at the Jubilee project. Many soil samples produced anomalous results, peaking at 143 ppb Au, 10.8 g/t Ag, 1788 ppm Cu, 2024 ppm Ni, 453 g/t Pb, 1.0% Zn, and 149 ppm W. Soils collected within the 100x100 sample grid returned peak values of 26 ppb Au, 685 g/t Cu, 724 g/t Ni, 453 g/t Pb, and 1.0% Zn. The best soils results for Au, Cu and Ag were clustered in an area just north of the summit of Jubilee Mountain, and on a ridge southeast of the summit where the 100x100 m grid is located.

More in-depth research and prospecting in 2012 uncovered more about the geology of Jubilee Mountain, with rock samples providing some significant results. The most evident mineralization was seen in the skarning of marble lenses within the altered peridotite in the upper elevations of the property. Sulphides make up 30-95% of material, returning peak values of 1.5% Cu, >10% Fe, 4.8% Zn, and 71 g/t Ag. Over 10 separate, heavily oxidized exposures have been observed with values from 0.1 to 0.5% Cu, >10% Fe, 241ppm W, and 3% Zn. In lower elevations, an exposure of exceedingly cooked and

carbonate-altered peridotite in contact with a serpentinite unit and within close proximity to an alkaline granitic intrusive returned peak values of 7.49% Cu, 460 g/t Ag, 57 ppm Mo, 2341 ppm Pb, and 3340 ppm Zn. In addition to the mentioned skarning, the ultramafic units potentially host a bulk tonnage and widespread disseminated pyrrhotite, pyrite, and potentially awaurite mineralization in serpentinite and peridotite units. Soil sampling has indicated as such, returning peak values of 2024 ppm Ni with anomalous Ni, Cr, and Co values across the property. Grabs from ultramafics have returned values of 121 ppm Co, 1621 ppm Cr, and 3117 ppm Ni. The intruding alkaline syenite yields potential for fractional melt in the adjacent ultramafics for the formation of larger concentrated nickel +/- cobalt and PGE deposits at depth on the property. Directly north of the property and site of the majority of historical work in the immediate area exhibits high sulphidation epithermal mineralization in a shear zone as gold-bearing arsenopyrite occurring with chalcopyrite, minor pyrrhotite, and quartz. Grab samples of this occurrence returned values of 21 g/t Au, 8.9 g/t Ag, and 8865 ppm Cu.

## 2013 Field Program

During the 2013 regional program, a total of 357 soils, 13 stream sediment samples and 43 rock samples were collected at the Jubilee project. The field program consisted of three full days in the field (June 9<sup>th</sup> and September 6<sup>th</sup> & 7<sup>th</sup>), with a 4-man field crew collecting a small number soils along contour on the northern margin of the property on June 9<sup>th</sup>, and a 7-man soils crew collecting infill grid soils on September 6<sup>th</sup> and 7<sup>th</sup>. A 4-man silt sampling crew also sampled the upper length of Wolverine Creek and its tributaries on September 6<sup>th</sup>, and a 2-man hand-trenching crew worked the site of a geochemical high from a soil collected to the north of the summit of Jubilee Mountain. In addition, geologist Rick Zuran, B.Sc. completed geological reconnaissance in the north part of the claim block, visiting 11 different stations throughout the property and collecting number of silt, soil and rock grab samples and recording his observations in detail. Rick and all sampling crews were dispatched and retrieved on the property via helicopter.

Assay values from soils collected in 2013 seem to further define and confirm areas of interest identified in 2012, especially on the ridge to the southeast of the summit of Jubilee Mountain where the greatest number of anomalous Ag, Cu, Ni, Pb and Zn values are present. This area is dominated by severely altered oxidized punky and muggy brown ultramafic volcanic greenstone. Soils collected here in 2012 returned peak values of 26 ppb Au, 685 g/t Cu, 724 g/t Ni, 453 g/t Pb, and 1.0% Zn. One rock grab sample collected in 2013 (sample 13NG021) returned highly anomalous values over the detection limit



(>10000 ppm) in Cu, Pb and Mn. This sample also returned 7174.2 ppm As, 48 ppm Mo, 4241 ppm Zn, 1433.2 ppm Co, 61.4 ppm Sb, and 66.7 ppm Ag. Soils collected here in 2013 as well as in the past have shown a cluster of weakly anomalous to highly anomalous values, as seen in Figures 3-11. In the future, this area is deserving of an in-depth mapping and prospecting program, with possible trenching.

The other most interesting area of note is where the small hand trench was dug over a highly anomalous Au value in a soil from 2012. Several soil and rock chip samples collected from the interior of the small trench returned many highly anomalous Au values, with two soils peaking at 217 and 273 ppb. One rock assayed 495.4 ppb Au, with four others greater than 100 ppb Au. Other peak values in rocks include 7.9 ppm Ag, >10000 ppm Zn, >10000 ppm Mn, 43.3 ppm Co, >40% Fe, 20.3 ppm W, and 0.28 ppm Hg. It would be beneficial to continue trenching and sampling this spot, and to infill soils to a possible 50x50 m in the surrounding area.

In addition to these areas, a new area of interest was discovered by the geologist during the field program. "Smokehead" is a new skarn mineral showing located on the southern margin of the northern part of the MOO claim block. The showing comprises of coarse-grained crystalline grossular garnet and calcite/marble, vuggy/punky goethite-limonite with manganese-oxide stain and massive black magnetite. Rock grab samples here assayed 26.1 ppb Au, 22.2% Fe, >10000 ppm Mn, and 3109 ppm Zn.

Spatial distribution of assay values for select elements for cumulative soils are shown in Figures 3-11.

## Expenditures

08-Jun-13		Total		
4 Man Mob in Moo @ \$400/day/man		\$1,600	Rick Zuran (Field Report and Field Work)	\$2,047.50
1 Truck- 100 km@60 cents/km		\$60	Rick Zuran (Airphoto Study of Jubilee Mtn Area)	\$2,100
1 Trailer @\$16/day		\$16	Rick Zuran (Geochem Analysis and Targeting Jubilee)	\$1,050
4 Quads @\$40/day/quad		\$160	Helicopter Invoice September 6,7th 2013	\$9,471.53
Dail Field Expenses \$100/day/man		\$400		
Generator		\$10		
<b>Daily Total</b>		<b>\$2,246</b>	329 Soil Samples and 8 stream seds	\$6,599.30
09-Jun-13		Total		
4 Man Soil Sample Team \$400/day/man		\$1,600	42 Rock Samples	\$1,502.84
1 Truck- 100 km@60 cents/km		\$60	5 Soil Samples	\$97.91
1 Trailer @\$16/day		\$16	20 Soil Samples	\$391.65
4 Quads @\$40/day/quad		\$160	5 stream seds	\$80.25
Dail Field Expenses \$100/day/man		\$400	67 overweight	\$74.57
Generator		\$10	<b>Total Assay</b>	<b>\$8,746.52</b>
<b>Daily Total</b>		<b>\$2,246</b>	<b>Report Writing</b>	<b>\$4,000</b>
September 5, 2013		Total	<b>Total Expenses</b>	\$47,228
10 MOB in Moo Claims Setup Camp @ \$400/day/man		\$4,000	GST	\$2,361.38
2 Trucks - 200 km @60 cents/km		\$120	<b>Grand Total</b>	<b>\$49,588.93</b>
Daily Field Expenses \$100/day/man		\$1,000		
<b>Daily Total</b>		<b>\$5,120</b>		
06-Sep-13		Total		
10 Man Soil and Stream Sed Crew @ \$400/day/man		\$4,000		
2 Trucks - 50/day/truck		\$100		
Daily Field Expenses \$100/day/man		\$1,000		
<b>Daily Total</b>		<b>\$5,100</b>		
07-Sep-13		Total		
10 Man Soil and Prospecting crew @ \$400/day/man		\$4,000		
2 Trucks - 50/day/truck		\$100		
Daily Field Expenses \$100/day/man		\$1,000		
<b>Daily Total</b>		<b>\$5,100</b>		

## Conclusion and Recommendations

With a successful YMIP application, the 2013 field season produced many interesting results for the MOO property. A better understanding of the geology of Jubilee Mountain and the nature of its anomalies was gained, soils and rocks further defined targets on which future work can be focused, and a new skarn mineral showing was found. During the 2013 regional program, a total of 357 soils, 13 stream sediment samples and 40 rock samples were collected at the Jubilee project. Many soils and rocks displayed highly anomalous Au values, as well as pathfinder elements like Hg, Zn and W. It is apparent that some spots are worthy of further research and exploration in the future.

Future work recommendations:

- 5) Detailed geological mapping of structural features and zones of contact in the MOO north block to help further define zones of mineralization within the area.
- 6) Infill soil sampling around areas with significant assay results, particularly to the north of the summit of Jubilee Mountain in the area surrounding the location of the hand trench.
- 7) Continued trenching at the anomaly to the north of the summit (using a Can-Dig mini excavator), as well as possible trenching over the zone of mineralization on the ridge southeast of the summit of Jubilee Mountain.
- 8) Reconnaissance ridge and spur soils in the south end of the property.

## Summary of Qualifications

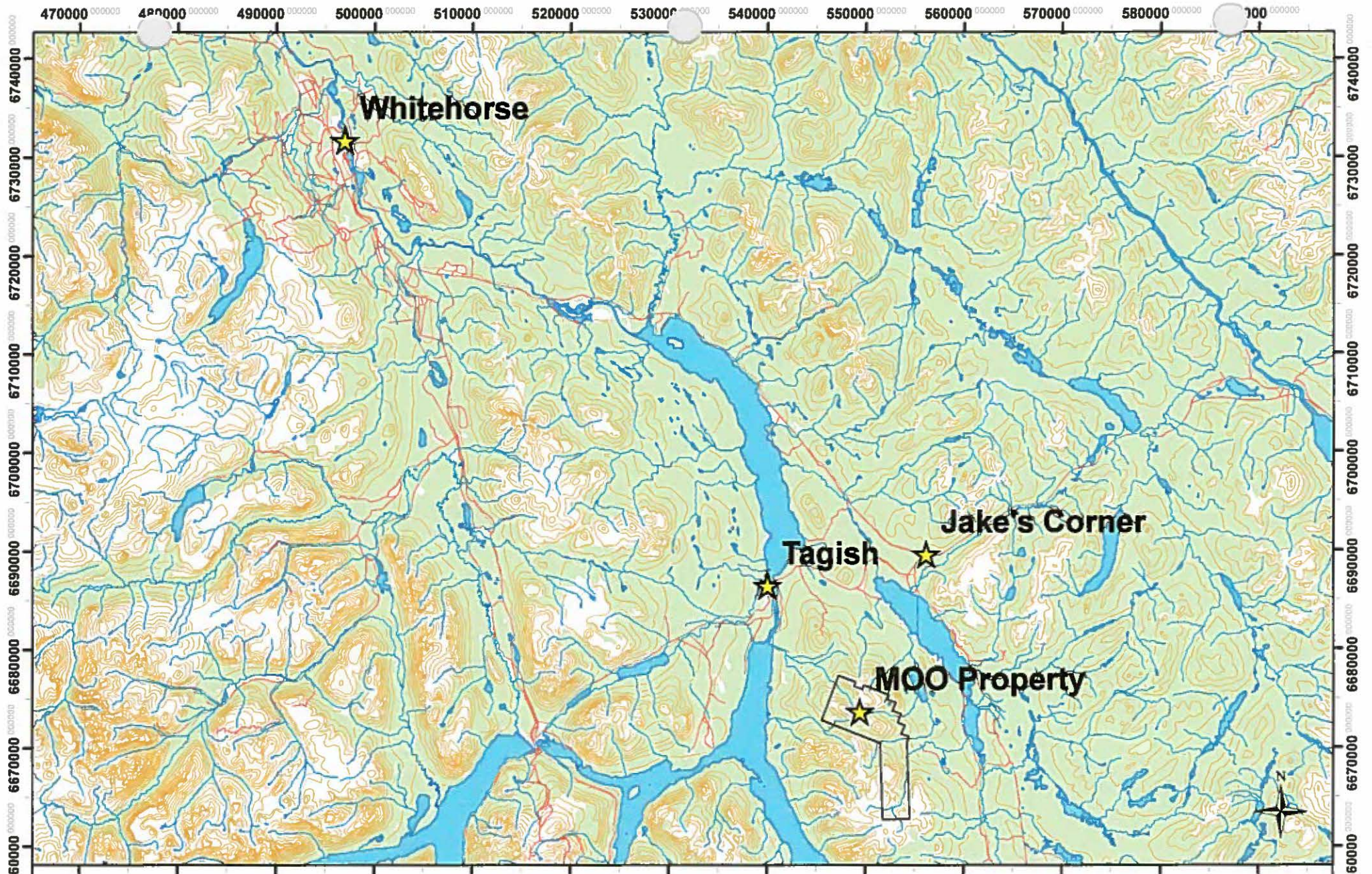
Edward Long and Riley Gibson, co-owners of All-In Exploration Solutions Inc., along with Nicolai Goepfel, the company's senior project manager, own the claims MOO 1-280. Edward Long completed a Diploma in Geological Technology at NAIT in 2009. He then spent two years employed by the Mineral Assessment Branch of the Yukon Geological Survey. He also has several years of exploration experience both within Yukon and Alberta. Riley Gibson completed a B.Sc. degree in Physical Geography at the University of Lethbridge in the spring of 2011. He spent two seasons as a field assistant working with Jeff Bond and the Y.G.S. He has also been employed in various aspects of the exploration industry in the Yukon and B.C. since 2004.

## References

Carter, B. & Clarke, J., 1999. Property Assessment Report on the Jube Claims 1-6 (#93923).

Clarke, Joseph A.J., 2007. Report on 2006 YMIP Exploration (YMIP-06-050) In The Whitehorse Mining District, Yukon Territory, On the Southeast Side of Jubilee Mountain and Wolverine Creek.

# Appendix A: Figures & Certificates




**Legend**

-  MOO Property
-  Road
-  Contour
-  Watercourse
-  Waterbody

**MOO Property Location Map**

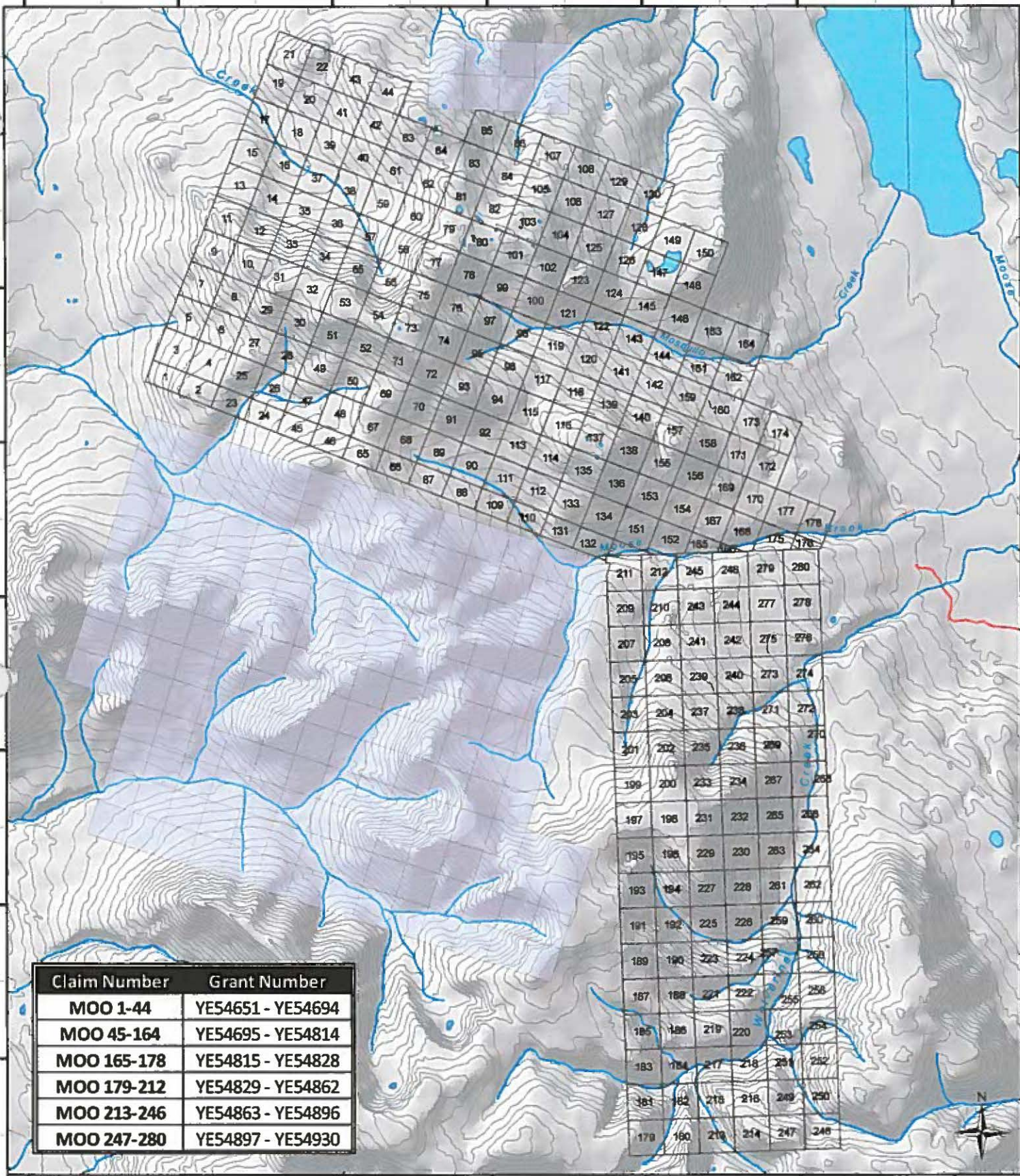
Jubilee Mountain, NTS 105D01

1:500,000  Kilometers  
NAD 1983 UTM Zone 8N

544000 546000 548000 550000 552000 554000 556000

667600  
667400  
667200  
667000  
666800  
666600  
666400

667600  
667400  
667200  
667000  
666800  
666600  
666400



Claim Number	Grant Number
MOO 1-44	YE54651 - YE54694
MOO 45-164	YE54695 - YE54814
MOO 165-178	YE54815 - YE54828
MOO 179-212	YE54829 - YE54862
MOO 213-246	YE54863 - YE54896
MOO 247-280	YE54897 - YE54930

**Legend**

- MOO Claims
- Other quartz claims
- Road/trail
- Contour
- Watercourse
- Waterbody

**MOO Quartz Claims**

Jubilee Mountain, NTS 105D01



1:65,000

NAD 1983 UTM Zone 8N



# Legend

MOO Claims

\* Hand Trench

## Au (ppb)

- <5
- 5.1 - 10
- 10.1 - 20
- 20.1 - 50
- 50.1 - 200
- 200.1 - 495.4

### MOO Property North Soil Geochemistry - Au

All-In Exploration Solutions Inc.

1:30,000

NTS Map 105D01

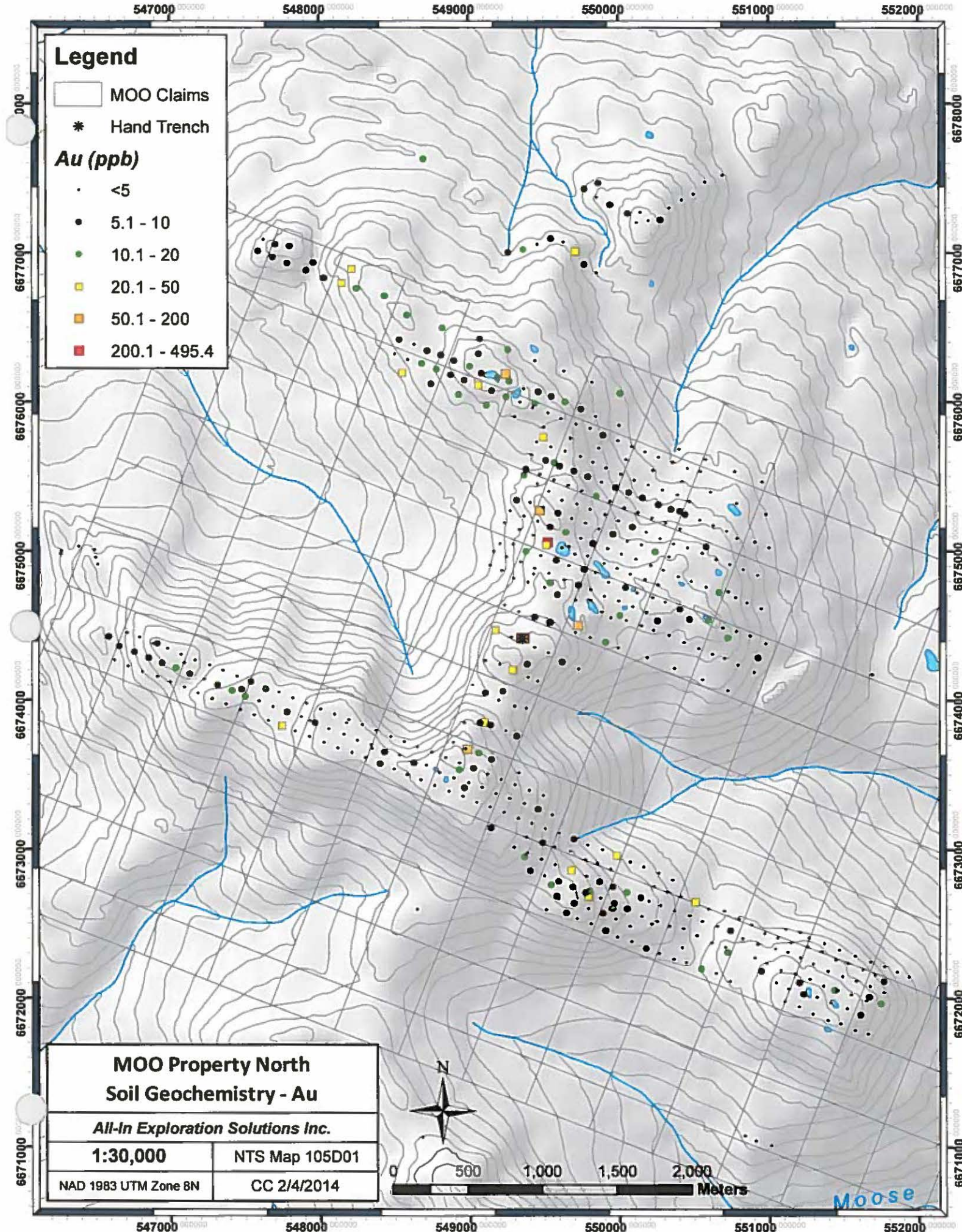
NAD 1983 UTM Zone 8N

CC 2/4/2014



0 500 1,000 1,500 2,000 Meters

Moose

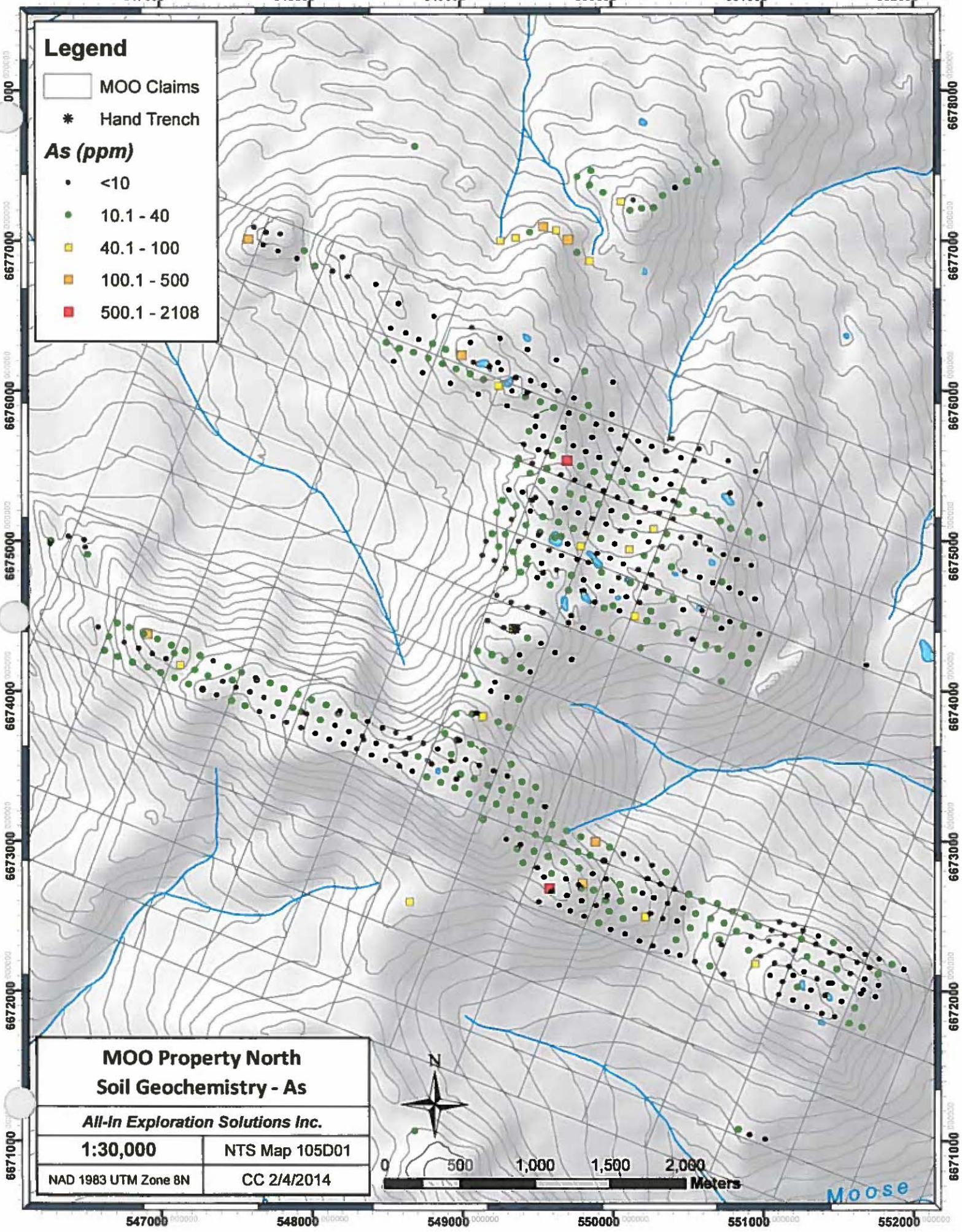


**Legend**

- MOO Claims
- \* Hand Trench

**As (ppm)**

- <10
- 10.1 - 40
- 40.1 - 100
- 100.1 - 500
- 500.1 - 2108



**MOO Property North**  
**Soil Geochemistry - As**

*All-In Exploration Solutions Inc.*

1:30,000	NTS Map 105D01
NAD 1983 UTM Zone 8N	CC 2/4/2014



MOOSE

# Legend

MOO Claims

\* Hand Trench

## Ag (ppm)

• <0.3

• 0.31 - 1

• 1.1 - 2

• 2.1 - 3.5

• 3.51 - 7

• 7.1 - 12.5

### MOO Property North Soil Geochemistry - Ag

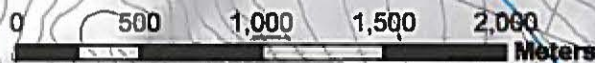
All-In Exploration Solutions Inc.

1:30,000

NTS Map 105D01

NAD 1983 UTM Zone 8N

CC 2/4/2014



Moose

# Legend

- MOO Claims
- \* Hand Trench

## Mo (ppm)

- <1
- 1.1 - 3
- 3.1 - 10
- 10.1 - 50
- 50.1 - 85.8

### MOO Property North Soil Geochemistry - Mo

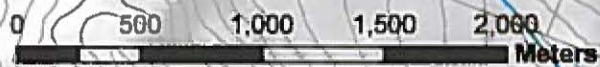
All-In Exploration Solutions Inc.

1:30,000

NTS Map 105D01

NAD 1983 UTM Zone 8N

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Moose

# Legend

- MOO Claims
- \* Hand Trench

## Cu (ppm)

- <50
- 50.1 - 100
- 100.1 - 200
- 200.1 - 400
- 400.1 - 800
- 800.1 - 1788

### MOO Property North Soil Geochemistry - Cu

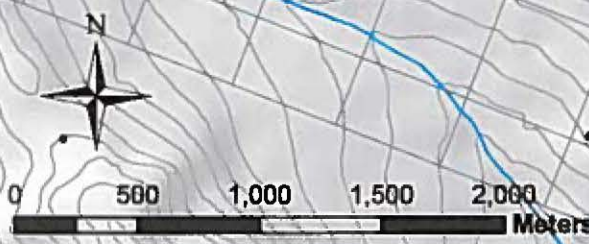
All-In Exploration Solutions Inc.

1:30,000

NTS Map 105D01

NAD 1983 UTM Zone 8N

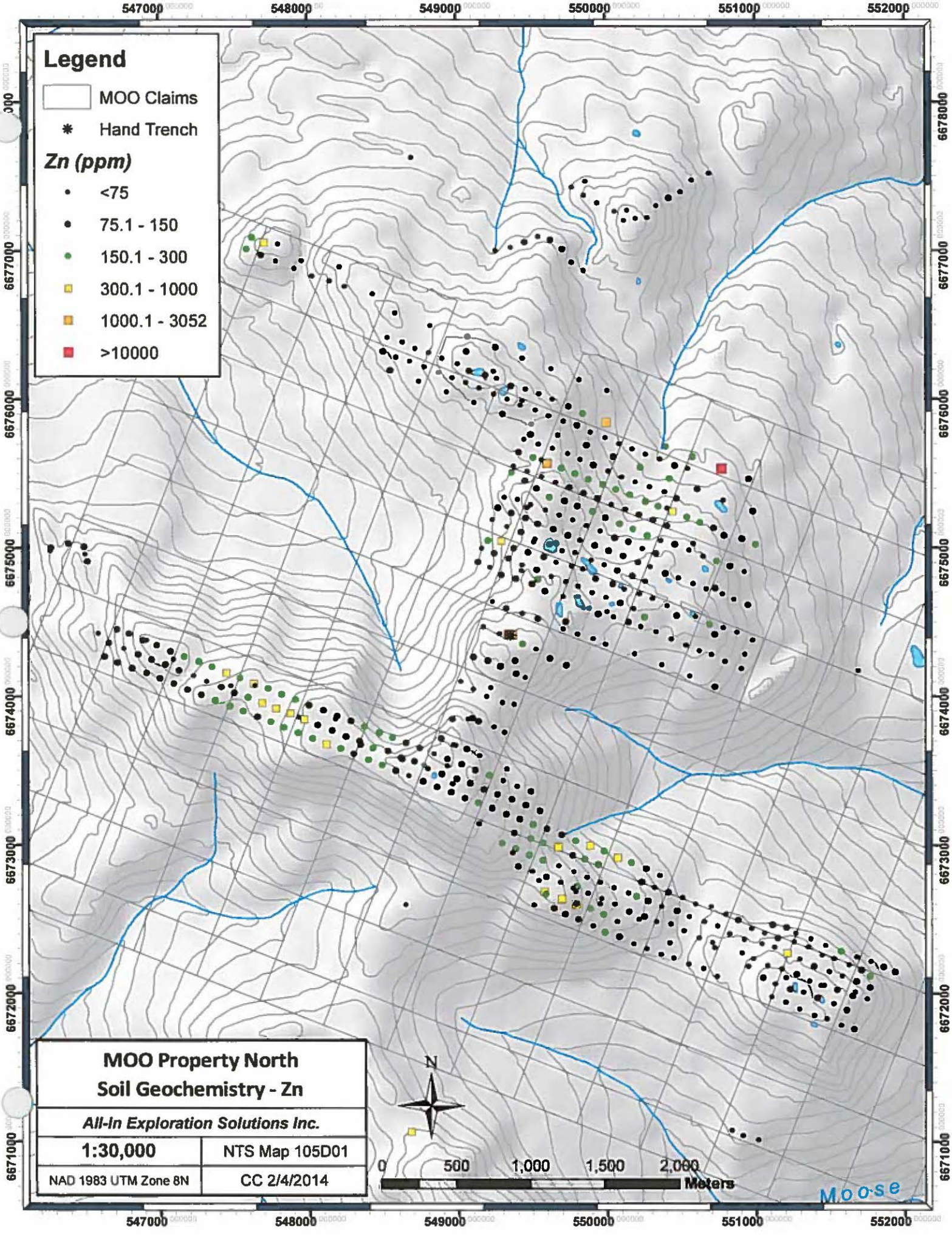
CC 2/4/2014



Moose

# Legend

- MOO Claims
- \* Hand Trench
  
- Zn (ppm)**
- <75
- 75.1 - 150
- 150.1 - 300
- 300.1 - 1000
- 1000.1 - 3052
- >10000



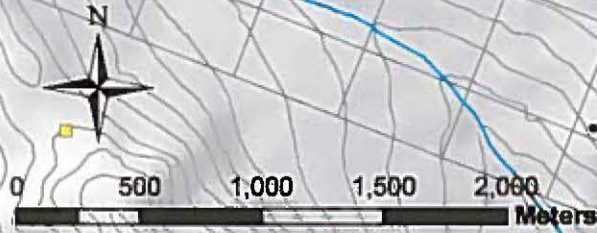
**MOO Property North**  
**Soil Geochemistry - Zn**

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*All-In Exploration Solutions Inc.*

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<b>1:30,000</b>	NTS Map 105D01
NAD 1983 UTM Zone 8N	CC 2/4/2014



### Legend

- MOO Claims
- \* Hand Trench
- W (ppm)**
- <5
- 5.1 - 10
- 10.1 - 20
- 20.1 - 50
- 50.1 - 149

## MOO Property North Soil Geochemistry - W

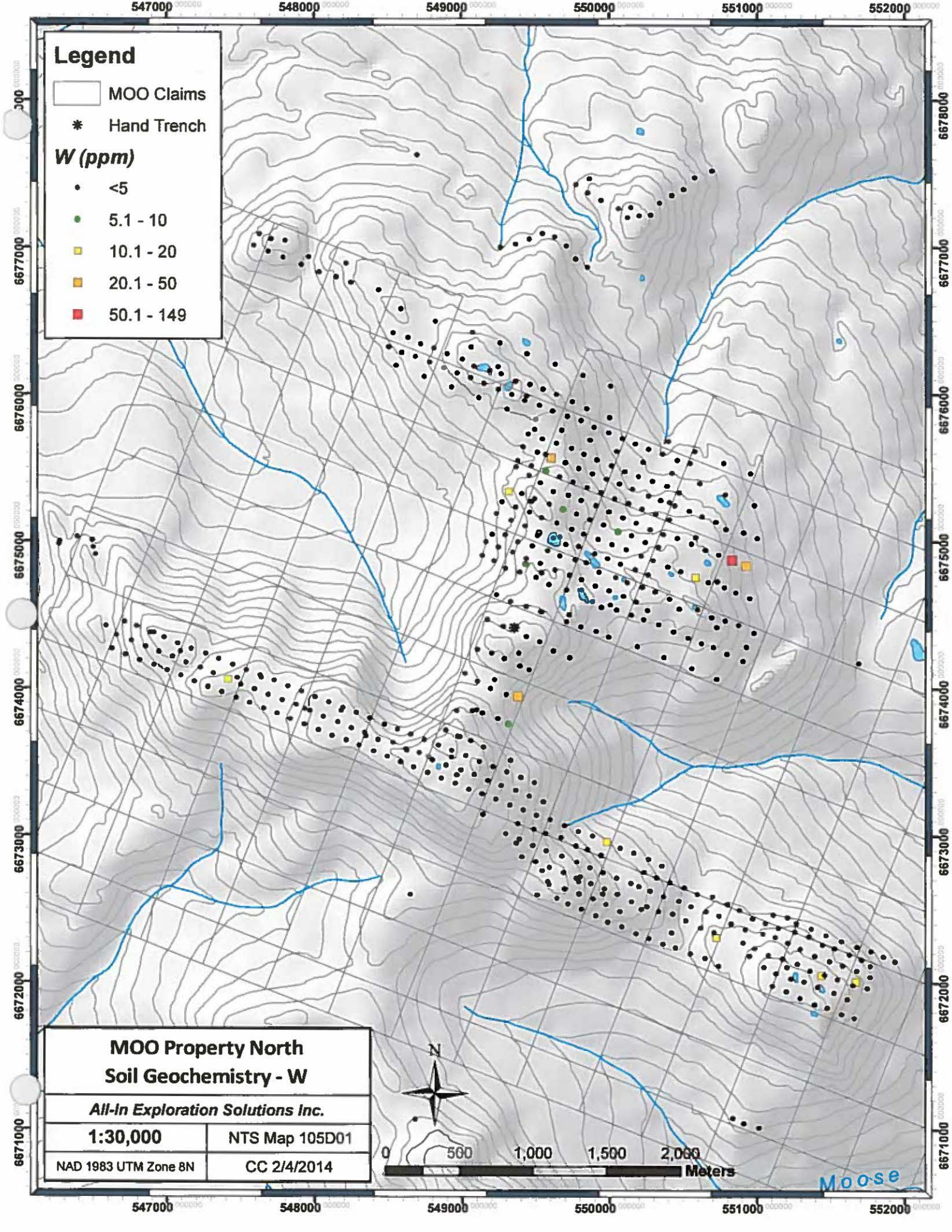
All-In Exploration Solutions Inc.

1:30,000      NTS Map 105D01

NAD 1983 UTM Zone 8N      CC 2/4/2014



Moose



# Legend

MOO Claims

\* Hand Trench

## Pb (ppm)

• <10

• 10.1 - 25

• 25.1 - 75

• 75.1 - 200

• 200.1 - 500

• 500.1 - 961.1

### MOO Property North Soil Geochemistry - Pb

All-In Exploration Solutions Inc.

1:30,000

NTS Map 105D01

NAD 1983 UTM Zone 8N

CC 2/4/2014



0 500 1,000 1,500 2,000 Meters

Moose

547000

548000

549000

550000

551000

552000

667000

6677000

6676000

6675000

6674000

6673000

6672000

6671000

6678000

6677000

6676000

6675000

6674000

6673000

6672000

6671000

547000

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549000

550000

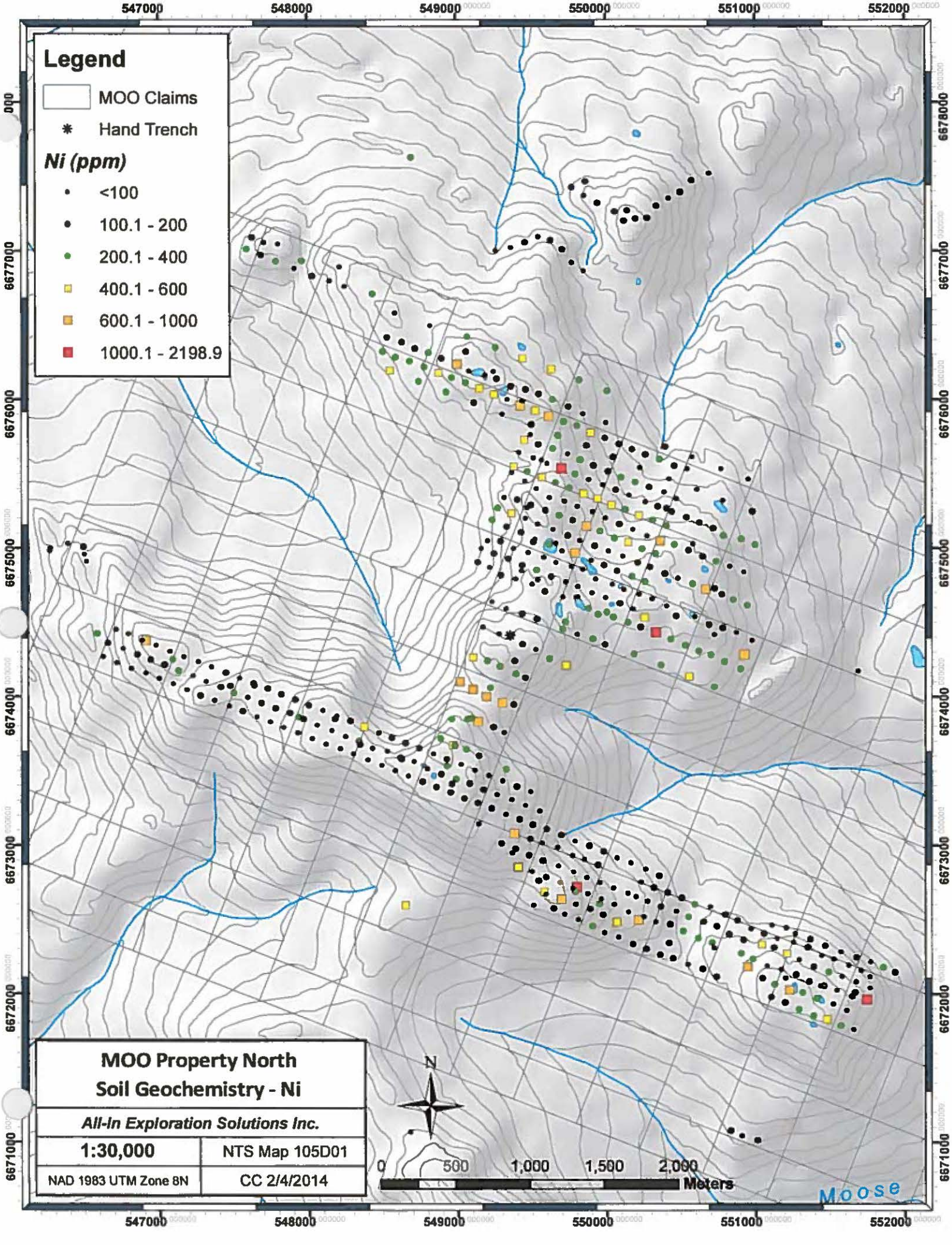
551000

552000



# Legend

- MOO Claims
- \* Hand Trench
  
- Ni (ppm)**
- <100
- 100.1 - 200
- 200.1 - 400
- 400.1 - 600
- 600.1 - 1000
- 1000.1 - 2198.9



## MOO Property North Soil Geochemistry - Ni

All-In Exploration Solutions Inc.

1:30,000

NTS Map 105D01

NAD 1983 UTM Zone 8N

CC 2/4/2014



**Soil Sample Locations – Jubilee Project (MOO 1-280)**  
**2013 Field Season**

Sample	Easting	Northing
2759	549262	6676998
2760	549458	6677054
2761	549631	6677070
2762	549772	6676920
10030	549865	6677464
10031	549774	6677427
10032	549858	6677370
10033	549943	6677318
10034	550061	6677260
10035	550144	6677268
10036	550122	6677199
10037	550201	6677213
10038	550280	6677217
10039	550341	6677300
10040	550420	6677351
10444	549364	6677019
10445	549548	6677092
10446	549711	6677007
10447	549852	6676865
10953	550500	6677394
10954	550576	6677471
10955	550694	6677517
22484	550146	6672549
22485	550250	6672516
22486	550333	6672482
22487	550427	6672467
22488	550515	6672421
22489	550618	6672375
22490	550707	6672342
22492	550903	6672271
22493	550982	6672234
22494	551080	6672189
22495	551175	6672165
22496	551272	6672129
22497	551362	6672084
22498	551457	6672053
22499	551546	6672024
22500	551648	6671983
24263	547959	6676930
24264	548696	6677626
24267	548682	6671069

24269	549312	6670134
24270	549316	6670119
24271	552314	6667790
24272	552300	6667820
24273	546262	6674983
24274	546269	6674999
24275	546384	6675031
24276	546492	6675007
24277	546500	6674958
24278	546515	6674908
24279	549581	6672685
24280	549800	6672719
24380	547592	6673995
24381	547686	6673957
24382	547780	6673921
24383	547875	6673888
24384	547968	6673847
24385	548059	6673806
24386	548158	6673771
24387	548250	6673730
24388	548341	6673699
24389	548429	6673651
24390	548531	6673632
24391	548617	6673587
24392	548709	6673562
24393	548797	6673515
24394	548892	6673479
24395	548991	6673445
24396	549082	6673415
24397	549173	6673372
24398	549266	6673338
24399	549364	6673306
24400	549457	6673267
24401	549550	6673230
24402	549504	6673139
24403	549597	6673108
24404	549694	6673067
24405	549789	6673027
24406	549886	6672995
24407	549978	6672959
24408	550071	6672916
24409	550163	6672882

24410	550198	6672654
24411	550273	6672623
24412	550365	6672585
24413	550467	6672554
24414	550552	6672517
24415	550653	6672484
24416	550741	6672454
24417	550822	6672402
24418	550921	6672363
24419	551041	6672332
24420	551125	6672309
24421	551208	6672273
24422	551296	6672232
24423	551391	6672182
24424	551491	6672148
24425	551580	6672117
24426	551673	6672082
24427	551765	6672038
24428	551764	6672115
24429	551707	6672159
24430	551626	6672193
24431	551525	6672234
24432	551446	6672257
24433	551352	6672313
24434	551256	6672348
24435	551147	6672374
24436	551055	6672406
24437	550970	6672437
24438	550880	6672492
24439	550798	6672531
24440	550697	6672584
24471	546626	6674268
24472	546715	6674229
24473	546813	6674191
24474	546910	6674158
24475	546999	6674120
24476	547095	6674085
24477	547185	6674045
24478	547280	6674012
24479	547370	6673974
24480	547469	6673936
24481	547559	6673901

24482	547656	6673863
24483	547745	6673830
24484	547834	6673791
24485	547930	6673756
24486	548026	6673717
24487	548118	6673679
24488	548214	6673649
24489	548304	6673612
24490	548400	6673573
24491	548494	6673536
24492	548582	6673501
24493	548671	6673466
24494	548765	6673427
24495	548860	6673391
24496	548952	6673355
24497	549046	6673314
24498	549135	6673282
24499	549230	6673247
24500	549323	6673207
24501	551657	6671758
24502	551572	6671785
24503	551478	6671829
24504	551391	6671854
24505	551292	6671896
24506	551198	6671941
24507	551107	6671977
24508	551012	6671012
24509	550909	6671042
24510	550834	6671079
24511	550738	6672114
24512	550645	6672168
24513	550546	6672198
24514	550447	6672238
24515	550360	6672263
24516	550265	6672301
24517	550177	6672333
24518	550081	6672382
24519	549985	6672411
24520	549794	6672603
24521	549571	6672896
24522	549480	6672932
24523	549388	6672976

24524	549296	6673011
24525	549380	6673079
24526	549489	6673042
24527	549569	6673013
24528	549673	6672985
24529	549770	6672930
24530	549853	6672904
24531	549942	6672864
24601	546709	6674451
24602	546791	6674420
24603	546886	6674378
24604	546980	6674346
24605	547072	6674305
24606	547166	6674269
24607	547262	6674236
24608	547351	6674201
24609	547445	6674160
24610	547538	6674123
24611	547631	6674087
24612	547725	6674053
24613	547817	6674014
24614	547912	6673979
24615	548004	6673941
24616	548096	6673905
24617	548190	6673868
24618	548283	6673833
24619	548375	6673795
24620	548472	6673756
24621	548563	6673722
24622	548652	6673687
24623	548745	6673651
24624	548839	6673614
24625	548930	6673578
24626	549024	6673541
24627	549117	6673505
24628	549210	6673469
24629	549303	6673432
24630	549397	6673396
24631	549491	6673359
24671	549164	6674997
24672	549247	6674961
24673	549343	6674926

24674	549436	6674884
24675	549533	6674851
24676	549630	6674806
24677	549728	6674771
24678	549809	6674740
24679	549902	6674698
24680	549995	6674664
24681	550090	6674626
24682	550182	6674589
24683	550262	6674774
24684	550173	6674810
24685	550074	6674845
24686	549984	6674883
24687	549900	6674916
24688	549791	6674966
24689	549704	6674980
24690	549618	6675024
24691	549523	6675058
24692	549428	6675105
24693	549334	6675143
24694	549236	6675187
24695	549317	6675341
24716	549247	6676035
24717	549340	6675998
24718	549426	6675957
24719	549526	6675924
24720	549613	6675887
24721	549715	6675852
24722	549807	6675823
24723	549895	6675777
24724	549991	6675739
24725	550087	6675698
24726	550172	6675663
24727	550264	6675627
24728	550357	6675598
24729	550458	6675554
24730	550544	6675533
24731	550469	6675332
24732	550387	6675376
24733	550290	6675409
24734	550196	6675441
24735	550102	6675475

24736	550012	6675516
24737	549914	6675557
24738	549827	6675595
24739	549743	6675633
24740	549641	6675668
24741	549546	6675697
24742	549452	6675730
25487	553871	6664057
25488	549430	6674845
25490	549368	6674414
25491	549346	6674416
31884	551521	6671933
31885	551413	6671970
31886	551318	6672007
31887	551229	6672029
31888	551131	6672065
31889	551046	6672108
31890	551932	6672144
31891	551854	6672178
31892	551769	6672213
31893	551677	6672245
31894	551572	6672282
31895	551467	6672323
31896	551370	6672369
31897	551268	6672407
31898	551207	6672446
31899	551111	6672462
31900	549940	6672866
31971	550264	6672838
31972	550351	6672792
31973	550232	6672750
31974	550317	6672714
31975	550412	6672682
31976	550505	6672645
31977	550594	6672601
31978	548503	6676321
31979	548591	6676284
31980	548683	6676255
31981	548782	6676216
31982	548877	6676179
31983	548968	6676142
31984	549059	6676112

31985	549151	6676074
32000	551610	6671888
43255	549592	6675254
43256	549495	6675290
43257	549405	6675326
44126	549416	6673175
44127	549380	6675550
44128	549472	6675515
44129	549569	6675478
44130	549662	6675440
44131	549754	6675405
44132	549850	6675366
44133	549940	6675333
44134	550034	6675290
44135	550127	6675260
44136	550221	6675220
44137	550312	6675185
44138	550407	6675147
44139	550333	6674962
44140	550242	6674996
44141	550146	6675040
44142	550055	6675066
44143	549958	6675111
44144	549867	6675147
44145	549776	6675185
44146	549684	6675219
RZ_So_002	550950	6669498
RZ_So_003	550985	6669619
RZ_So_004	551098	6669791
RZ_So_005	552279	6670476
RZ_So_006	552267	6670473
RZ_So_007	551758	6667979
RZ_So_008	551757	6668042
RZ_So_009	551745	6668119
RZ_So_010	551750	6668192
RZ_So_011	551778	6668254
RZ_So_012	551846	6666218
RZ_So_013	551828	6666253

**Silt Sample Locations – Jubilee Project (MOO 1-280)**

*2013 Field Season*

<b>SAMPLE</b>	<b>EASTING</b>	<b>NORTHING</b>
1870	552347	6663693
1894	552361	6663589
1895	552499	6663866
1896	553134	6663974
1897	553592	6664292
1898	553877	6664082
1899	553884	6664137
1900	553836	6666021

**Rock Sample Locations – Jubilee Project (MOO 1-280)***2013 Field Season*

<b>Sample ID</b>	<b>Easting</b>	<b>Northing</b>
13NG002	547699	6677089
13NG003	547745	6677176
13NG004	548817	6676982
13NG005	552343	6667707
13NG006	552188	6667905
13NG007	546331	6675095
13NG008	546331	6675095
13NG009	546424	6675040
13NG010	546424	6675040
13NG011	546471	6674913
13NG012	546466	6674897
13NG013	546505	6674911
13NG014	546627	6674915
13NG015	546693	6674715
13NG016	549388	6674380
13NG017	549380	6674378
13NG018	549593	6672687
13NG020	549187	6672978
13NG021	549187	6672978
13SH001	548694	6671093
13SH002	548677	6671055
ST 8	546331	6675095
ST 9	546505	6674911
RG01	549375	6674390
RG02	549375	6674390
RG03	549375	6674390
RG04	549375	6674390
RG06	549375	6674390
RG07	549375	6674390
RG08	549375	6674390
RG09	549375	6674390
RG10	549375	6674390
25489	549375	6674390
25492	549365	6674413
25494	548954	6673607
Rz-Rx-001	551087	6669775
Rz-Rx-002	552284	6670475
Rz-Rx-003	551762	6668254
Rz-Rx-004	551762	6668256
Rz-Rx-005	551783	6668350

**2013 FIELD REPORT**  
**on**  
**Jubilee Mountain Area (MOO CLAIMS)**

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**FRONTISPIECE: gossanous Cu-rich pods; MOO North Claim Block**

**BY:**

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**FOR:**

**ALL-IN EXPLORATION SOLUTIONS**

11 Redwood Street  
Whitehorse  
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Field Period: September 6 & 7, 2013  
DATE: October 03, 2013



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### APPENDIX

- Appendix 1: Rock Descriptions and Locations
- Appendix 2: Soil Descriptions and Locations
- Appendix 3: Silt Descriptions and Locations
- Appendix 4: Station Descriptions and Locations
- Appendix 5: Abbreviation Codes

## **Introduction**

This short report is a summary of a brief two day field excursion on September 6<sup>th</sup> and 7<sup>th</sup>, 2013, by the author. Particulars on geological observations and mineral potential with respect to targeting related geological models as an aid in future exploration are discussed in this report.

## **Geology Capsule**

The Moo Claim Block and immediate surrounding area is comprised of 2 major geological assemblages: the Lower Carboniferous to Middle Jurassic Cache Creek Terrane which has been intruded by the post-accretionary lower Tertiary Nisling Plutonic Suite during the Laramide structural event.

The Cache Creek Terrane comprise rocks of oceanic affinity; shallow water locally reefoid carbonates, basalt, gabbro, and alpine type ultramafic rocks. The structural style of the terrane is commonly characterized by extreme disruption and most internal contacts are probably faults.

Refer to Figure 1 for detailed lithological descriptions.

## **Field Schedule**

During the two day visit, use of a Jet Ranger 206B helicopter based from a staging point at a ranger station approximately 15 kilometres north of the property enabled us to investigate geology and mineral showings at 11 different locations or 'stops'. Refer to Figures 1, 2 and the descriptive tables for detailed sample and station particulars.

On September 6<sup>th</sup>, the author was accompanied by undergraduate geology student Nicolai Goepfel and a field assistant; seven stops with the helicopter were made: STOPS' 1 and 3 were chosen to investigate contact relationships and mineralogy between the limestone and the granitoid plugs; STOP 2 was chosen to investigate structure within the limestone unit; STOP 4 was chosen to investigate a resistant weathering bluff of massive brecciated irregular weathering limestone; STOP 5 was chosen to investigate a dark linear feature in the south part of the claim block; STOP 6 was at the 'Jubilee' Minfile copper skarn; and STOP 7 was chosen to investigate a known silver showing.

September 7<sup>th</sup>, the author was accompanied by geochemical technician Joe \_\_\_ ; four stops were made: STOP 8 was chosen to investigate the headwaters of a 'pup' draining north into Moose Brook placer claims; STOP 9 was chosen to investigate an isolate outcrop poking out of glacial moraine in the Moose Brook placer claims; STOP 10 was chosen to investigate outcrop in a creek cut down slope from the brecciated limestone outcrop (STOP 3); and STOP 11 was chosen at the headwaters of an unusual arcuate drainage flowing east-ish into Wolverine Creek.

## **Detailed Field Observations**

Navigating and location data was accomplished in the field with a hand-held GPS unit: Garmin GPSmap 62s with onboard topography. Geological stations of significance were labeled by the author as: RZ-1, RZ-2, ...ect.; other stations of interest were labeled using assigned point

numbers by the GPS unit. Sampling codes regarding rocks, soils, and silts were recorded with a 7 figure notation as such: RZRx-001, ...etc., RZSo-001 ...ect., and RZSi-0001 ...etc., respectively. Company (All-In) sample codes were also recorded by All-In personnel. Notes, sketches, and photo information was also recorded in a field notebook and summarized in tables at the back of this report.

The following paragraphs summarize the field notes from each helicopter 'stop'.

**STOP 1** A large outcrop (>100m sq) of light grey, altered skarned massive limestone within 100m of the intrusive contact contains bands 10-40 cm wide of white tremolite (Station 230, Photo #2285). The intrusive is a medium grained, hypidiomorphic-granular textured, biotite granite. It is generally non-magnetic in this area. The granite showed uniform east-west, steep dipping, uniform joint sets (095/86) – some areas had 6 to 10 per meter (Station 232, Photo # 2286). The actual contact was not observed on this traverse.



Photo # 2286

**STOP 2** A regional east-northeast trending lineament passes through this area. A pit dug 40 centimetres deep reveals an intense off-white clay with minor black graphitic clay.

**STOP 3** A new skarn mineral showing, 15 sq m and open to the north; named "Smokehead" comprises: coarse grained crystalline grossular garnet (1-2 cm diameter dodecahedrons) and calcite/marble; vuggy-punky goethite-limonite with manganese oxide stain; massive black magnetite; lesser diopside and tremolite, malachite stain, and minor specs of galena and sphalerite. The contact between the coarse crystalline marble and magnetite is sharp and amebic. The outcrop is at the bottom of a limestone mountain on the south edge of a saddle (Station RZ-1). Across the saddle towards the north, are numerous biotite-granite outcrops. The granite is not magnetic. Flanking the Smokehead skarn to the west is a feldspar porphyry; possibly a dacite. An isolated outcrop of limestone surrounded by granite to the north of the skarn indicates structure in the area. Refer to Figure 1 for photo.

**STOP 4** A large, irregular, 300 sq m outcrop of massive brecciated limestone with local large meter patches of reddish hematite stained matrix was described at Stations RZ-2,3 and 233-236 (Photo # 2288). The outcrop shows multi-directional fracturing and shearing and forms a resistant weathering bluff. Shearing and shear-breccia are noted although some of the breccia is karst-collapse style with matrix supported coarse grain crystalline white calcite cement suggesting a cave-meterioric process. Breccia is monolithic with clasts of light grey limestone. At 236 an intense yellow oxide (jarosite?) coats float down slope from outcrop (Sample #13NG006).



Photo # 2288

**STOP 5** A dark grey to black contrasting outcrop, 70m wide, was described at 237 and identified as an amygdaloidal basalt with local flow texture.; Amygdaloids were composed of calcite. Footwall and hanging wall contacts were juxtaposed with light grey limestone. The unit appeared to have an approximate strike of 120° Az. Refer to photo # 2297.

**STOP 6** This stop included an intense gossan roughly 10x15m in size which was historically blasted and represents one of 14 mineralized gossanous pods of the Jubilee Minfile 105D001 (pers. comm.. 2013, Goepfel, N.). This pod was predominantly composed of magnetic massive pyrrhotite with minor (1-5% observed) blebby chalcopyrite and local coatings of a hydrated off-white-yellowish iron-sulphate mineral (halotrichite?). The pod is completely surrounded by mafic and ultramafic rocks and does not appear to be on any traceable lineaments to the other mineralized pods. Refer to 238 and photos # 2299, 2300, and 2301.



Photo # 2304

**STOP 7** This stop was anomalous in silver with up to 460 g/t in a grab sample of rock (pers. comm.. 2013, Goepfel, N.) . The sub-crop and numerous frost boils host a severely altered oxidized punky and vuggy brown ultramafic volcanic greenstone. Refer to Photo # 2304.

**STOP 8** This stop was intended to investigate upstream anomaly potential from the placer workings in Moose Brook. It was immediately observed that numerous rounded intrusive boulders in the creek are a result of glacial moraine contamination; refer to Photo # 2307; samples RZSi-001 to 005 were taken to confirm any contamination. Soil samples RZSo-001 to -004 were taken in talus just below outcrops avoiding any contamination from the

moraine in the creek cut below. Outcrops observed are a light grey massive limestone locally sheared. Sample RZRx-001 was taken across a two metre width of a shear measuring 030/85. Another prominent shear direction at Station RZ-7 measured 070/58. Refer to Stations RZ-6 and 7 in the tables.

**STOP 9** A 'lone' outcrop was noted from the helicopter at the head of the Moose Brook placer workings surrounded by moraine. The rounded outcrop is comprised of moderately magnetic dark brown, ductile deformed, tectonized, soft serpentinite. Fine disseminations (trace-3%) of pyrrhotite was noted in the matrix. A representative sample (RZRx-002) was taken along with soils (RZSo-005). Soil was partially contaminated with loess.

**STOP 10** This stop is below and down slope to the north-northeast of STOP 4 in a creek cut. Numerous outcrops of massive light grey limestone, faulted and brecciated limestone and karst-collapse breccia limestone outcrops were observed. One float boulder (25x30x50cm) of limestone breccia was sampled (RZRx-004) and contained 20% angular red hematite clasts in a matrix of 50% coarse crystalline white calcite. Refer to Figure 1 Photo # 2334. A giant boulder, (2x2x4m) in size, in the creek bed, comprised a karst-collapse breccia containing 20-30% light grey limestone clasts in a 70% white coarse grain crystalline calcite matrix with local hematite stain along fractures in the calcite. Refer to sample RZRx-005 and Photo # 2335.



Photo # 2335

**STOP 11** Soil samples RZSo-012 to 014 were taken in a north trending lineament flanked by deformed, multi-directional faulted and cave-forming light grey limestone. A sink hole is noted down slope on the east side of this unusual arcuate drainage. Refer to Photo # 2344.



Photo # 2344



## Interpretive Cartoon and Discussion

An interpretive cartoon of the geology as a cross-section was constructed from the YGS geological map and detailed observations along a northwest transect through the property during the authors two day visit in order to gain a better understanding of potential geology models, observed mineralization and targeting. Refer to Figure 2.

In terms of gold mineralization the area is promising by virtue of the nearby placer activity and the early Tertiary 'wet' biotite granitoids which chronologically relate to the Laramide structural event and are a 'heat engine' in the region. Another *key* observation is that the granitoid plugs appear to intrude along a *major contact zone* (blue line on Figure 1) separating relatively impermeable mafic and ultramafic rocks to the north from porous and reactive limestones to the south. This contact is interpreted as an east-northeast structural corridor and has proven evidence of skarn-type mineralization coincident with the contact; namely: the new 'Smokehead' Fe-Cu-Pb-Zn grossular-magnetite skarn.

Note: Three potential mineral 'regimes' are plausible on the Moo Property and immediate area when considering the effect of a 'wet granitoid heat engine'. Some pro's, con's and suggestions are noted:

### 1) NORTH OF THE 'MAJOR CONTACT ZONE' – HIGH METAL CONTENT

Composition-wise, the mafic volcanics to ultramafic greenstones comprise high backgrounds in the following elements:

Fe-Cu-Ni-Cr-Mo-Ag-PGE's (Pt & Pd)

Re-tooling of silver through metasomatic and or meteoric-juvenile mixing processes results in alteration of select volcanic rock types as is noted at STOP 7. This alteration of volcanic material is a common process in Sinaloa State, Mexico - although the major host rock type would be a limestone and the minor rock type would be a volcanic rock; the silver is associated with the altered volcanic rock type.

Where calcareous components exist in the volcanic-greenstone host rock (ie. limestone lenses or clasts); skarn pods may have elevated copper values as noted at STOP 6. These skarn pods are interpreted as a roof pendant style spatial relationship with the intrusion.

Mineralized gossanous pods as observed at STOP 6 are surrounded or encased in for the most part, 'tight', relatively impermeable greenstone. The pods are small (10-30 m sq) and discontinuous (pers. Comm. 2013, Goepfel, N.)

### **Suggestions:**

A map of structural features will help to resolve if there is potential plumbing linking any of the mineralized pods and extending strike length.

### 2) ALONG THE 'MAJOR CONTACT ZONE' – MINERAL CONDUIT

This regime has good potential as an 'avenue' for intrusive dikes and late mineral-enriching phases regarding the wet biotite-granitoid intrusions. This was seen in the Smokehead skarn

area at STOP 2. Feldspar porphyry and evidence of this phase fingering into the limestone to the south is noted. The skarn itself is proof of a wide variety of mineralogies – plausibly originating from scavenged elements shared by both regimes #1 & # 3; ie. iron-rich goethite and massive magnetite (regime 1); and the presence of sphalerite and galena (regime 3).

The contact as observed at STOP 2 is recessive weathering – some of these zones after geochemical work could be tested with trenching.

***Suggestions:***

The geometry of this contact may help resolve areas of improved mineralization; ie. locating embayment areas. Detailed mapping of the contact is recommended.

3) SOUTH OF THE 'MAJOR CONTACT ZONE' – GOOD RECEPTOR

Limestone is a good reaction face regarding mineralized juvenile and meteoric fluids. Noted extensive areas of brecciation and increased permeability through karst-collapse and cave forming processes is evident at STOP 4 and STOP 10. Evidence of hematite stain may relate distal-style mineralization with the granitoid intrusions to the north.

Considering other mineralized areas in the region; namely the epithermal systems associated with the Laramide structural event at Mt. Skukum Gold Mine (80 km WNW) and the Engineer Gold mines (65 km S.); there are strong associations with the highly mobile element mercury.

Note: Sampling silt and even soil may be a problem in this regime as cleaner or more sparry limestones do not breakdown into abundant soil or silt due to their relatively high solubility in weak acidic waters.

***Suggestions:***

Rock chip sampling will be more effective wrt to geochemical results in regime # 3. Relating mercury geochemistry with mapped lineaments and structure such as folds and breccia zones may help resolve active 'plumbing' on the property. Stereoscope airphoto interpretation would be useful.

A final comment regarding glacial moraine on the property and geochem data sets is of note.

Glacial moraine including a wide variety of intrusive rock types was reported high up into the headwaters of Moose Brook (STOP 8) and are likely the source of the high gold in stream sediment anomalies. The moraine contact within the creeks would be useful to map out. It may explain some of the high RGS samples taken at lower elevations; particularly the 287 ppb Au, and 211 ppb Au; 19 kilometers south-southwest of Jubilee Mtn; and 6 kilometres southwest of Jubilee Mtn, respectively.

Geochem data statistics for samples should be done separately when comparing results regarding regimes 1 and 3. Thresholds are markedly different; ie. 100 ppm Ni in regime 1 is not an anomalous value; on the contrary – the same value is extremely anomalous in regime 3. Nickel background thresholds are 154 times higher in ultramafic rocks verses carbonate rocks. See nickel thresholds, Table 1.

At this point the origin of gold in geochemical sampling with respect to pathfinders is important. Associations including Au-Bi (As, Sb, W), Au-(Fe,Ni,Cr), and Au-Hg are key to understanding the source.

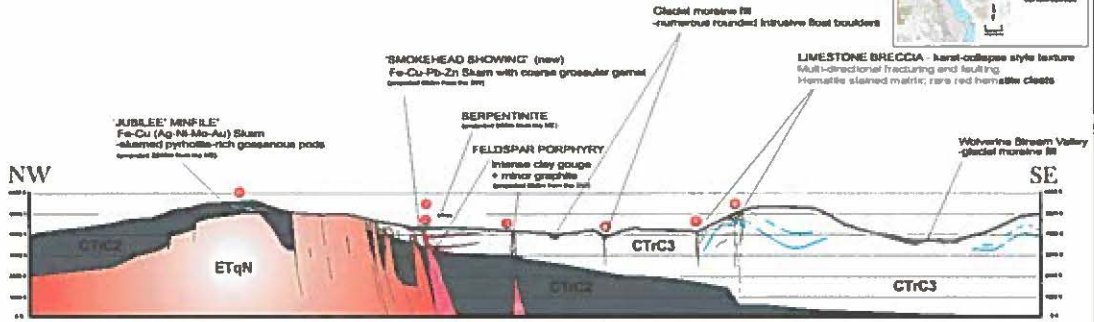
**Table 1: Compilation of average geochemical background data for the Earth's crust and selected rock types (after Garrett, 2005)**

	Hg μg kg <sup>-1</sup>	Pb mg kg <sup>-1</sup>	Cd mg kg <sup>-1</sup>	Cr mg kg <sup>-1</sup>	Ni mg kg <sup>-1</sup>	As mg kg <sup>-1</sup>	Cu mg kg <sup>-1</sup>	Zn mg kg <sup>-1</sup>	ref
Earth's crust	80	13	0.2	100	75	2	55	70	1
	90	12	0.2	110	89	2	63	94	2
Upper continental crust		20	0.1	35	20	1.5	25	71	3
	80	13	0.2	77	61	1.7	50	81	2
Igneous rocks									
Ultramafic	4	1	0.1	1600	2000	1	10	50	4
Mafic	13	6	0.2	170	130	2	87	105	4
Intermediate	21	15	0.1	22	15	2	30	60	4
		10		55	30		60		3
Felsic (4)	39	19	0.1	4	5	1	10	39	4
Sedimentary rocks									
Sandstone	57	14	0.02	120	3	1	15	16	5
Limestone	46	16	0.05	7	13	2	4	16	5
Shale	270	80	0.2	423	29	9	45	130	5
Black shale		15	4.0	18	68	22	50	189	6
		100		700	300		200	1500	7

- 1 Taylor, S.R., 1964.
- 2 Lee Tan and Yao Chi-Lung, 1970.
- 3 McLennan, S.M., 1992.
- 4 Turekian, K.K. & Wedepohl, K.H., 1961.
- 5 Faust, S.D. and Aly. O.M., 1981.
- 6 Dunn, C.E., 1990.
- 7 Vine, J.D. and Tourtelot, E.B., 1970.



**'MOO' CLAIMS - INTERPRETIVE CROSS-SECTION CARTOON**  
(looking northeast)



**SURFACE GEOLOGY**  
 Predominantly 'impermeable' intermediate to ultramafic volcanic rocks ↔ biotite granite-granodiorite ↔ Predominantly 'relatively porous' limestone

**LEGEND**

- PP: Feldspar Porphyry (age?)
- Early Tertiary **WOLFING RANGE SUITS**:
  - ETqN: Quartz Oreside/Quartzite
- Tertiary **CACHE CRIB**:
  - CTqC1: Ultramafic Rocks
  - CTqC2: Mafic & Ultramafic Rocks with early (biotite) granodiorite dikes
  - CTrC3: Limestone

**STRUCTURE**

- ENE-trending structural corridor
- ENE-trending structure
- NNE-trending structure
- NNE-trending Zone
- ENE + NE structures
- ESE fold axis

**JUBILEE MTN. AREA**  
 Main Battery Canada  
**'MOO' CLAIMS**  
 Interpretive Cartoon

with text by: Nathan A. Davis  
 Figure 1  
 06.05. September 2011

\* Refer to FIGURE 1 for lithological descriptions and legend.

## Appendix 1: Rock Descriptions and Locations

JUBILEE - Rock Descriptions (NAD 83, Zone 8V)														
SAMPLE NUMBER	DATE		LOCATION			WIDTH (m)		TYPE	MINERALIZATION			ROCK		DESCRIPTION
	Month	Day	Easting	Northing	Elev. (m)	Top	Base		Mineral (s)	%	Alteration	Modifiers (s)	Rock Type	
A2R001	7/9/2011	551087	668773	1178	2.00	0.00	chip	n/a	n/a		fl gy s'ne	LST	CTC1	fl gy s'ne LST - no mineral particles visible - matrix
A2R002	7/9/2011	551284	667475	1058	0.45	0.00	chip	po	tr	chl	fl gy fra s'ne	SER	CTVC1	massive to blocky s'ne - no mineral
A2R003	7/9/2011	551782	668254	1294	0.20	0.00	chip	n/a	n/a		fl gy mas b'ne	LST	CTVC1	massive s'ne - no mineral LST b'ne - no mineral
A2R004	7/9/2011	551782	668256	1296	0.25	0.30	float	hem	25	chl	rd-s'ne gy cal-lst b'ne	BKA	CTVC1	fl gy mas b'ne - no mineral LST b'ne - no mineral
A2R005	7/9/2011	551783	668350	1278	2.00	2.00	float	hem	tr		fl gy cal-lst b'ne	BKA	CTVC1	part float b'ne - no mineral LST b'ne - no mineral

## Appendix 2: Soil Descriptions and Locations

JUBILEE - Soil Descriptions (NAD 83, Zone 8V)									
SAMPLE	DATE	LOCATION			COLOUR	COMPOSITION	DEPTH	SOIL	COMMENTS
Number	d/m/y	Easting	Northing	Elev. (m)		clay-silt-sand-gra. e-organic	(cm)	HORIZON	
RZSo001	7/9/2013	551017	6669487	1224	lt bn	0-5-3-2-0	10	C	composite soil check immediately below the LST BL.
RZSo002	7/9/2013	550950	6669498						re Nicolai
RZSo003	7/9/2013	550985	6669619						re Nicolai
RZSo004	7/9/2013	551098	6669791						re Nicolai
RZSo005	7/9/2013	552279	6670476						re Nicolai
RZSo006	7/9/2013	552267	6670473						re Nicolai
RZSo007	7/9/2013	551758	6667979						re Nicolai
RZSo008	7/9/2013	551757	6668042						re Nicolai
RZSo009	7/9/2013	551745	6668119						re Nicolai
RZSo010	7/9/2013	551750	6668192						re Nicolai
RZSo011	7/9/2013	551778	6668254						re Nicolai
RZSo012	7/9/2013	551844	6666215	1554	bn	2-4-1-2-1	25	B	soil crossing 25C Ash Road - not in patch on the LST
RZSo013	7/9/2013	551828	6666253						re Nicolai
RZSo014	7/9/2013	551828	6666294	1556		1-4-1-2-2	25	B	soil crossing 25C Ash Road - not in patch on the LST

### Appendix 3: Silt Descriptions and Locations

JUBILEE - Silt Descriptions (NAD 83, Zone 8V)							
SAMPLE	DATE	LOCATION			COLOUR	COMPOSITION	COMMENTS
Number	d/m/y	Easting	Northing	Elev. (m)		clay-silt-sand-gra.-organics	
RZSI001	7/9/2013	550987	6669480	1212	gy	0-2-3-5-0	numerous INT glacial moraine boulders - contaminated-gold check
RZSI002	7/9/2013	551010	6669661	1187	gy	0-1-4-5-0	numerous INT glacial moraine boulders - contaminated-gold check
RZSI003	7/9/2013	551090	6669768	1175	gy	0-1-4-5-0	numerous INT glacial moraine boulders - contaminated-gold check
RZSI004	7/9/2013	551104	6669908	1167	bn gy	0-1-3-5-1	numerous INT glacial moraine boulders - contaminated-gold check
RZSI005	7/9/2013	551745	6668064	1341	lt gy bn	0-3-4-3-0	dry; below karst 1st BXA - testing gold-mercury values

## Appendix 4: Station Descriptions and Locations

### JUBILEE - Station Descriptions (NAD 83, Zone 8V)

STATION	DATE	LOCATION		COMMENTS
Number	d/m/y	Easting	Northing	Elev. (m)
230	6/9/2013	552923	6674570	1260 alt tre SKN/MBL contact with predominantly non-magnetic bio GRD/GRN unit
231	6/9/2013	552860	6674427	1262 meg-cog s/n GAN; noted E-W jointing
232	6/9/2013	552573	6674182	1299 med-cog hypidiomorphic GRN/GRD w hi density E-W jointing 8/m O95/B6
233	6/9/2013	552341	6667710	1667 collapse-karst hem stn lst BXA; photo #2290
234	6/9/2013	552305	6667786	1652 collapse-karst hem stn lst BXA; photo #2292-95
235	6/9/2013	552286	6667885	1621 she lst BXA; FP 385/90
236	6/9/2013	552185	6667904	1575 yw vug LST float; intense yw-ish stn; jarosite ? Downslope from collapse karst lst BXA (RZ 3); photo #2296
237	6/9/2013	555221	6666102	1351 cal-aym BAS TRENDING G70 Az 70 m wide strike legth unknown; photo #2297-8
238	6/9/2013	549610	6675131	1605 sa-rich GOS pod ~20 sq m (mas portr-2% bla cop); local wh nal coatings; photo #2299-2301
239	6/9/2013	549956	6672607	1548 punky vug bn alt ULT
240	6/9/2013	550037	6672605	1532 vug-gas FeO+ frost boil GRS; photo #2305
241	6/9/2013	550030	6672602	1529 uni JOI 3/m; GRS
242	7/9/2013	552352	6670383	1053 heli pick up spot
243	7/9/2013	552298	6670354	1043 heli pick up spot
244	7/9/2013	551053	6669705	1181 gos sub-rounded boulder in creek; photo #2319
245	7/9/2013	552263	6670439	1090 last SER o/c going up slope
246	7/9/2013	551787	6668313	1304
247	7/9/2013	551745	6668061	1342 lst cal-vn BXA float; photo #2326
248	7/9/2013	551740	6668112	1333 lt gy mas LST; bedding (?) 292/58
249	7/9/2013	551739	6668151	1328 sub-rounded por AND float in creek; photo #2327
250	7/9/2013	551782	6668254	1294 near RZR001 & 4
251	7/9/2013	551425	6668571	1150 hover over yw-ish LST canyon - no landing spots; photo #2319
252	7/9/2013	551730	6668241	1565 heli pick up spot
RZ-1	6/9/2013	548666	6671054	1522 fel POR possibly por DAC: sil fig matrix flanks SMOKEHEAD SHOWING to the SW
RZ-2	6/9/2013	552341	6667710	1667 collapse-karst hem stn lst BXA; photo #2290
RZ-3	6/9/2013	552185	6667904	1575 yw vug LST float; intense yw-ish stn; jarosite ? Downslope from collapse karst lst BXA (RZ 3); photo #2296
RZ-4	6/9/2013	549956	6672607	1548 punky vug bn alt ULT
RZ-5	6/9/2013	549305	6670135	1580 intense chl vrn + graphitic bk cly GOU - large FLT in area ?
RZ-6	7/9/2013	551017	6669514	1238 lt gy LST bluff; locally she @ 000/90
RZ-7	7/9/2013	551087	6669773	1176 lt gy partly re-crystallized LST w uni JOI/she @ G70/58, 90/m
RZ-8	7/9/2013	552283	6670478	1083 glaciated sub-rounded o/c of SER w tr dis por; photo #2328-25
RZ-9	7/9/2013	551743	6668266	1341 serated WS on lt gy mas LST; 286/86, 3/m JOI set
RZ-10	7/9/2013	551752	6668188	n/a FLT-PP @ 160/70; lst BXA HVV; bn rusty soil (RZ50-010) FW; photo #2339
SMOKEHEAD	6/9/2013	548688	6671095	1516 NEW SHOWING: gro-mag (Fe-Cu-Pb-Zn) SKN; mega-dodecahedral gro. mal stn, mas mag, sph-gal, tre, dqs, vug goe/mno, cog s/n MBL; photo 'SMOKEHEAD'

## Appendix 5: Abbreviation Codes

abbreviation codes					
COLOUR		ROCK TYPE		MINERALS	
bf	buff	AND	andesite	bio	biotite
bg	biege	BXA	breccia	cal	calcite
bk	black	GRD	granodiorite	dps	diopside
bl	blue	GRN	granite	fel	feldspar
bn	brown	INT	intrusive	gal	galena
br	brass	LST	limestone	goe	goethite
bz	bronze	MBL	marble	gro	grossular garnet
cl	clear	POR	porphyry	hem	hematite
gl	glassy	SER	serpentinite	mag	magnetite
gn	green	SKN	skarn	mal	malachite
go	gold	ULT	ultramafic	mno	manganese oxide
gy	grey			po	pyrrhotite
mt	metallic			sph	sphalerite
ol	olive			sx	sulphide
or	orange			tre	tremolite
pk	pink				
pu	purple				
rd	red				
sl	silver				
tn	tan				
tq	turquoise				
vo	violet				
wh	white				
yw	yellow				
lt	light				
md	medium				
dk	dark				
		TEXTURE		STRUCTURE	
		alt	altered	FLT	fault
		amy	amygdaloidal	FP	fault plane
		bx	brecciated	FW	foot wall
		dis	disseminated	GOU	gouge
		fra	fractured	HW	hanging wall
		gos	gossan	JOI	joint
		mas	massive	uni	uniform
		por	porphyritic	vn	vein
		she	sheared		
		stn	stain		
		xln	crystalline	o/c	outcrop
				WS	weathered surface
		fig	fine grain		
		meg	medium grain		
		cog	coarse grain		
		tr	trace		



'SMOKEHEAD SHOWING' (new): Fe-Cu Exo-Skarn with magnetite, grossular garnet, goethite, tremolite, malachite, sphalerite, and galena. (ref. RZ-1)



'JUBILEE' Minefile 105D001; Copper Exo-Skarn Numerous gossanous areas (14) ranging from 10-50sq m in size of locally massive pyrrhotite with minor chalcopyrite, malachite & bornite.



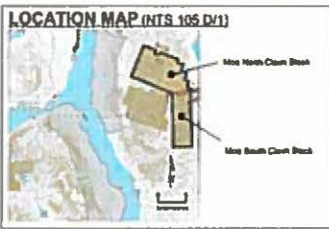
Intense hematite stained angular clasts in limestone breccia with white calcite matrix. (ref. RZR004)



Massive limestone canyon with intense yellow stain - jarosite (?). (ref. 251)



Large outcrop, 300 x 300m, of meteoric karst collapse-style limestone breccia. Hematite stained matrix. (ref. RZ-2 & 3; 233-236)



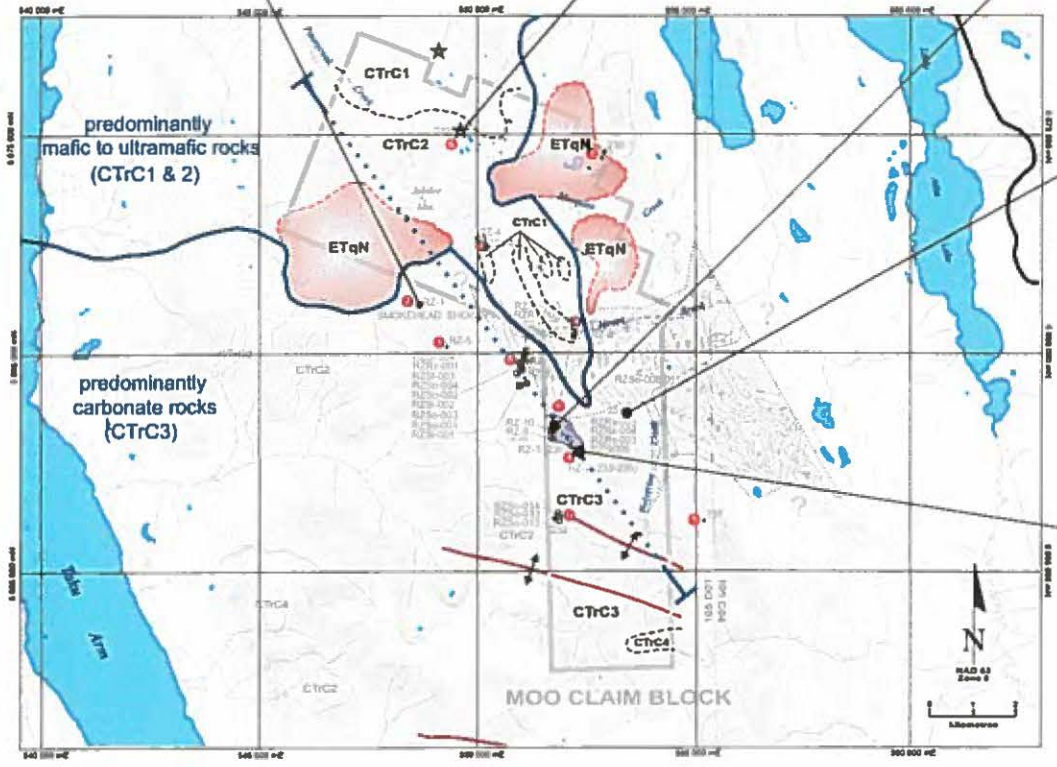
**LITHOLOGY LEGEND**

- Chert Marone
  - Early Tertiary NISLING RANGE SUITE**
  - ETqN** Biotite Granodiorite  
Luminous biotite granites, muscovite veins, unmetamorphosed mafic gneiss, biotite-hornblende gneiss as numerous gneissoids with sparse, white, sharp faceted phenocrysts, leucite, quartz inclusions.
  - Triassic CACHE CREEK**
  - CTrC1** Ultramafic Rocks  
Dark grey to dark brown weathering, strongly magnesian, variably laminated, crystallized and interbedded ultramafic rocks including mafic to mafic granoid hornblende-pyroxene diorite gneiss, peridotite, dunite, bornite, and pyroxenite.
  - CTrC2** Mafic & Ultramafic Rocks with chert, limestone, hornblende diorite  
Andesite basaltic andesite gneissoids, locally pillowed, ophiolite, pillowed(?) gneissoids with matrix of limestone and chert, altered volcanic rocks with numerous porphyry bodies, massive fine grained mafic rocks, and hornblende diorite.
  - CTrC3** Limestone  
Massive, blocky crystalline, locally oolitic and locally grey limestone, blocky, limestone breccia, massive to finely bedded, medium grained, crystallized white to pale yellow limestone and oolitic limestone breccia, rare dolomite.
  - Limestone breccia with lens-ortho-ortho textures.
  - CTrC4** Chert  
Massive, well bedded (or bedded), grey, black, red and brown chert, with lower shaly sandstone, minor thin limestone beds, and pillow lava.
- SYMBOL LEGEND**
- Geology Station
  - GPS Point - area of Interest
  - RZR-001 Rock Chip Sample
  - RZS-004 Soil Sample
  - RZS-004 Stream Sediment Sample
  - Helicopter Field Stop (see text in report)
  - Government Minefile
  - Section of Interpretive Cartoon
  - Road

**JUBILEE MTN. AREA**

Yukon Territory, Canada  
**'MOO' CLAIMS**  
 Field Observations

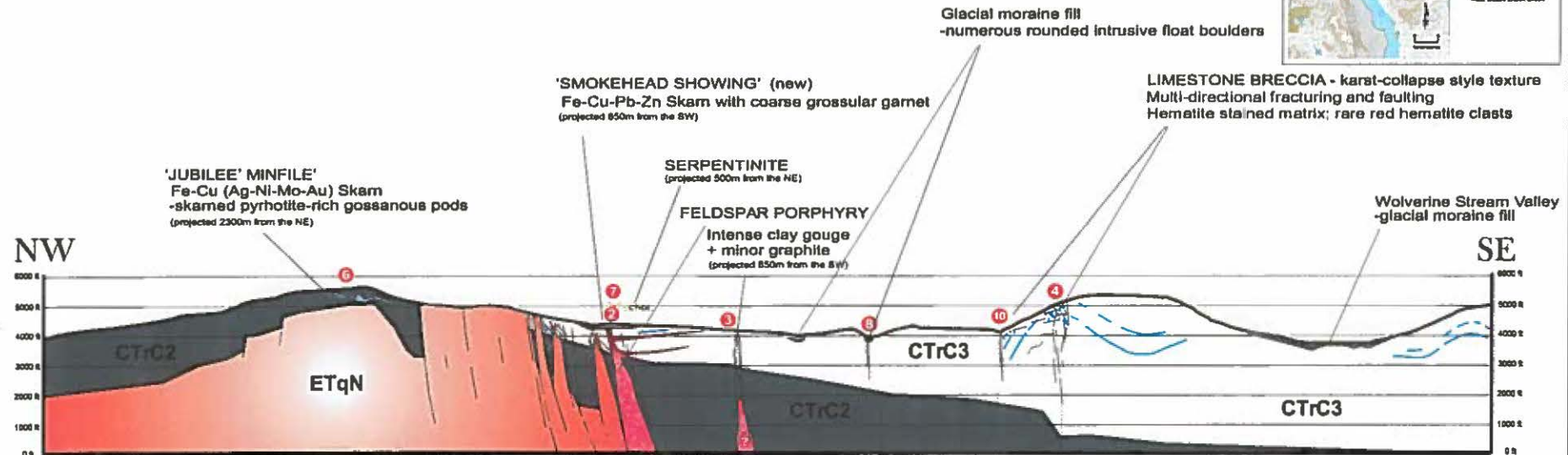
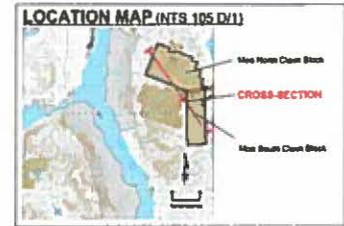
NTS: 105 D1 & C4  
 AUTHOR: R. Zurek  
 FIGURE: 1  
 DATE: September, 2013



\* Geology modified after on line MapMaker.

# 'MOO' CLAIMS - INTERPRETIVE CROSS-SECTION CARTOON

(looking northeast)



**SURFACE GEOLOGY**

Predominantly 'impermeable' Intermediate to ultramafic volcanic rocks | biotite granite-granodiorite | Predominantly 'relatively porous' limestone

**LEGEND**

- FP** Feldspar Porphyry (age?)
- Early Tertiary HISLING RANGE SUITE**
- ETqN** Biotite Granite/Granodiorite
- Triassic CACHE CREEK**
- CTrC1** Ultramafic Rocks
- CTrC2** Mafic & Ultramafic Rocks with chert, limestones, hornblende diorite
- CTrC3** Limestone
- Skarn - gossanous pyrrhotite-rich pod
- breccia
- bedding fabric
- glacial moraine as stream valley fill
- skarn area
- structural fabric
- Helicopter Field Stop (see text in report)

**STRUCTURE**

- ENE-trending structural corridor
- ENE-trending structure
- NNE trending structure
- NNE Breccia trending Zone
- ENE + NE structures
- ESE fold axis

**JUBILEE MTN. AREA**

Yukon Territory, Canada

**'MOO' CLAIMS**

Interpretive Cartoon

NTS: 105 D1  
AUTHOR: R. Zurek

FIGURE: 2  
DATE: September, 2013

\* Refer to FIGURE 1 for lithological descriptions and legend.



**INTERNAL SHORT REPORT**  
**SOIL GEOCHEM ANALYSIS**

---

**JUBILEE MOUNTAIN AREA**

Centered On:

548 870 mE, 6 668 400mN  
(NAD 83, Zone 8V)

Whitehorse Mining District

Prepared By:

Rick Zuran B.Sc.  
Box 10159  
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For

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867-332-4437

February 27<sup>th</sup>, 2014

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### APPENDICES

#### APPENDIX 1

CO-MATRIX SUMMARY – JUB Soils  
SELECT STAT SUMMARY – JUB Soils  
STATS-NORTH GEOCHEM REGIME – Jub Soils  
STATS-SOUTH GEOCHEM REGIME – Jub Soils

#### APPENDIX 2

Figure 1: GOLD, SILVER, COPPER, NICKEL, & CHROME – SOIL GEOCHEMISTRY, Elements of Interest  
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Figure 6: 2014 WORK PROPOSAL + MISC. COMPOSITION PLOT

## **Introduction**

This report is a brief examination of soil geochemical assay results from the Jubilee Mountain area of the Moo Claims conducted by All-In Exploration Solutions, southern Yukon Territory, Canada. The samples were submitted with analytical instruction independent of the authors knowledge. This report is based on company internal merged file with hand-held GPS location data listed as: file "JUBILEE\_Soil\_ALL\_v13\_B".

## **Internal Data Set**

The "JUBILEE\_Soil\_ALL\_v13\_B" file contains 3 data sets from years: 2011, 2012 and 2013.

26 elements were analyzed for from the 2011 and 2012 data sets:

1) Au ppb, Ag ppm, Al %, As ppm, Ba ppm, Ca %, Cd ppm, Co ppm, Cr ppm, Cu ppm, Fe %, K %, La ppm, Mg %, Mn ppm, Ni ppm, P ppm, Pb ppm, Sb ppm, Sc ppm, Sr ppm, V ppm, Zn ppm. Mo ppm, W ppm, and Hg ppm,

...as above + 10 addition elements (36 elements total) –were analyzed for the 2013 data set:

2) Au ppb, Ag ppm, Al %, As ppm, Ba ppm, Ca %, Cd ppm, Co ppm, Cr ppm, Cu ppm, Fe %, K %, La ppm, Mg %, Mn ppm, Ni ppm, P ppm, Pb ppm, Sb ppm, Sc ppm, Sr ppm, V ppm, Zn ppm. Mo ppm, W ppm, Hg ppm, Th (ppm), Bi (ppm), Ti %, B ppm, Na %, Tl ppm, S %, Ga pm, Se ppm, and Te ppm.

Additional data columns included: YEAR, Sample, Sample #, Project, Date, No Sample, Duplicate, Easting, Northing, UTM Zone, Waypoint, Weather, Slope, Aspect, Physiography, Tree Cover, Ground Cover, Depth (cm), Moisture, Colour, Horizon, Texture, Origin, Sample Quality, Distance to Waterbody, Other Features, Notes, Photo #, Camera #.

## **Soil Data Analysis**

Yukon government geology taken from YGS Map Viewer online <http://mapservices.gov.yk.ca/YGSWebMap.aspx> and geological observations in the field by the author show lithology contrast of ultramafic/mafic (+/- granitoid) rocks in the north part of the MOO CLAIM BLOCK claim and predominantly carbonate (+/- granitoid rocks) in the south part ; thus defining two separate geochemical regimes: a 'North Geochem Regime, and a 'South Geochem Regime'. Refer to Figures 1-4: "GEOCHEM REGIMES".

Statistical analyses were run separately for each of the two regimes and both elemental data sets; ie Correlation Matrix Block , General Summary Statistics and Cumulative Frequency & Ranking. The following tables include this information:

TABLE 1: CORRELATION MATRIX BLOCK  
NORTH GEOCHEM REGIME – DATASET #1 (26 element; n=587 – as above)

	As ppb	Ag ppm	Al %	As ppm	Ba ppm	Ca %	Ca ppm	Co ppm	Cu ppm	Cr ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Ni ppm	P ppm	Pb ppm	Sr ppm	Se ppm	Sn ppm	Sr ppm	Y ppm	Zn ppm	Zr ppm	V ppm	W ppm
As ppb	1																										
Ag ppm	0.29768	1																									
Al %	-0.1173	0.05123	1																								
As ppm	0.12099	0.28212	0.02315	1																							
Ba ppm	-0.02311	0.01119	0.01276	0.00363	1																						
Ca %	0.02965	0.03451	0.44403	-0.02783	0.52705	1																					
Ca ppm	0.71299	0.2463	-0.0722	0.14188	-0.0179	0.02261	1																				
Co ppm	0.1432	0.14874	0.31025	0.25451	-0.1109	-0.1816	0.28763	1																			
Cu ppm	-0.0463	0.03366	0.16137	0.0013	-0.0277	-0.0627	-0.0647	0.16774	1																		
Cr ppm	0.2305	0.32778	0.25143	0.14839	-0.1283	-0.1416	0.34389	0.18026	-0.0064	1																	
Fe %	0.45295	0.25299	0.29223	0.16578	0.02913	-0.0063	0.36753	0.35445	0.16106	0.64418	1																
K %	-0.2344	0.26323	0.39484	0.02314	0.07088	0.16805	-0.0241	0.05489	0.1813	0.07547	0.27912	1															
La ppm	-0.0208	0.04148	0.37844	0.0242	0.0446	0.43409	0.00958	0.34488	-0.1379	-0.0387	0.49847	0.49847	1														
Mg %	-0.0442	0.02563	0.30175	0.26375	0.07008	0.03101	-0.0647	0.72789	0.08423	0.01381	0.24772	0.27094	-0.1871	1													
Mn ppm	0.18471	0.19199	0.11247	0.28177	0.0192	0.15487	0.13143	0.24463	0.13898	0.18478	0.32995	0.16776	0.036	0.16919	1												
Ni ppm	-0.0412	0.10299	-0.0899	0.15236	-0.1408	-0.1451	-0.0813	0.719	0.16474	-0.0277	0.04215	-0.0201	-0.2676	0.75379	0.12946	1											
P ppm	-0.0144	-0.0938	0.27008	-0.0055	0.25845	0.25292	0.09024	-0.0261	-0.0276	0.15978	0.20385	0.39643	0.20191	0.00053	0.00727	-0.0723	1										
Pb ppm	0.0257	0.35948	0.05421	0.30414	0.0239	-0.0516	0.30927	0.0213	-0.0261	0.46729	0.17227	0.30248	0.0083	-0.0025	0.4211	-0.02	-0.04	1									
Se ppm	0.01773	0.18734	0.01946	0.06417	0.00559	0.01584	-0.00208	0.29291	0.49717	-0.013	0.05791	0.10673	-0.0433	0.21927	0.33537	0.11865	0.00287	0.04682	1								
Sn ppm	-0.0099	0.04254	0.78782	0.00239	0.49052	0.29159	-0.0813	0.25371	0.27123	0.00954	0.34254	0.03863	0.17114	0.11634	0.2085	0.07738	0.00889	0.13886	0.14925	1							
Sr ppm	-0.0237	0.02932	0.05409	-0.0297	0.0549	0.56792	-0.0289	0.0264	0.0179	-0.0254	0.11922	0.00566	0.33823	0.07214	0.08113	-0.1798	0.23303	-0.0477	0.01454	0.47688	1						
Sr ppm	-0.154	-0.0122	0.68803	-0.0124	0.83787	0.08149	-0.1134	0.34821	0.30777	0.16291	0.11296	0.40462	0.0249	0.10138	0.13147	-0.0208	0.13884	0.17087	0.00122	0.80817	0.21765	1					
Y ppm	0.57945	0.22534	-0.034	0.12181	0.00251	0.04027	0.35247	-0.0498	0.2143	0.35402	0.00287	0.0249	-0.0255	0.47121	-0.0543	0.07803	0.27202	0.00867	-0.020	-0.0023	-0.064	1					
Zn ppm	0.14139	0.10916	0.11064	0.25414	0.06063	0.04117	0.17481	0.04536	0.0441	0.1789	0.17126	0.07628	0.00089	0.00093	0.30543	0.00115	0.07198	0.06689	0.0773	0.11984	1						
Zr ppm	0.09418	0.02609	0.01986	0.01504	0.03463	0.09773	0.00025	-0.0045	0.00888	0.39624	0.15998	0.12884	-0.0039	0.03347	-0.0099	-0.0042	0.26172	0.0834	0.04912	0.01281	0.04138	-0.0381	0.0706	0.08165	1		
V ppm	0.09805	0.08713	0.51787	0.04618	0.64817	0.41226	0.10461	-0.0016	0.09389	0.0264	0.19719	0.54646	0.66426	0.18488	0.04206	-0.0517	0.20187	-0.015	0.08813	0.99771	0.45411	0.73878	0.00028	0.00642	0.09258	1	

TABLE 2: CORRELATION MATRIX BLOCK  
NORTH GEOCHEM REGIME – DATASET #2 (36 element; n=315 – as above)

	As ppb	Ag ppm	Al %	As ppm	Ba ppm	Ca %	Ca ppm	Co ppm	Cu ppm	Cr ppm	Fe %	K %	La ppm	Mg %	Mn ppm	Ni ppm	P ppm	Pb ppm	Sr ppm	Se ppm	Sn ppm	Sr ppm	Y ppm	Zn ppm	Zr ppm	V ppm
As ppb	1																									
Ag ppm	0.29768	1																								
Al %	-0.1173	0.05123	1																							
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Ca %	0.02965	0.03451	0.44403	-0.02783	0.52705	1																				
Ca ppm	0.71299	0.2463	-0.0722	0.14188	-0.0179	0.02261	1																			
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Cu ppm	-0.0463	0.03366	0.16137	0.0013	-0.0277	-0.0627	-0.0647	0.16774	1																	
Cr ppm	0.2305	0.32778	0.25143	0.14839	-0.1283	-0.1416	0.34389	0.18026	-0.0064	1																
Fe %	0.45295	0.25299	0.29223	0.16578	0.02913	-0.0063	0.36753	0.35445	0.16106	0.64418	1															
K %	-0.2344	0.26323	0.39484	0.02314	0.07088	0.16805	-0.0241	0.05489	0.1813	0.07547	0.27912	1														
La ppm	-0.0208	0.04148	0.37844	0.0242	0.0446	0.43409	0.00958	0.34488	-0.1379	-0.0387	0.49847	0.49847	1													
Mg %	-0.0442	0.02563	0.30175	0.26375	0.07008	0.03101	-0.0647	0.72789	0.08423	0.01381	0.24772	0.27094	-0.1871	1												
Mn ppm	0.18471	0.19199	0.11247	0.28177	0.0192	0.15487	0.13143	0.24463	0.13898	0.18478	0.32995	0.16776	0.036	0.16919	1											
Ni ppm	-0.0412	0.10299	-0.0899	0.15236	-0.1408	-0.1451	-0.0813	0.719	0.16474	-0.0277	0.04215	-0.0201	-0.2676	0.75379	0.12946	1										
P ppm	-0.0144	-0.0938	0.27008	-0.0055	0.25845	0.25292	0.09024	-0.0261	-0.0276	0.15978	0.20385	0.39643	0.20191	0.00053	0.00727	-0.0723	1									
Pb ppm	0.0257	0.35948	0.05421	0.30414	0.0239	-0.0516	0.30927	0.0213	-0.0261	0.46729	0.17227	0.30248	0.0083	-0.0025	0.4211	-0.02	-0.04	1								
Se ppm	0.01773	0.18734	0.01946	0.06417	0.00559	0.01584	-0.00208	0.29291	0.49717	-0.013	0.05791	0.10673	-0.0433	0.21927	0.33537	0.11865	0.00287	0.04682	1							
Sn ppm	-0.0099	0.04254	0.78782	0.00239	0.49052	0.29159	-0.0813	0.25371	0.27123	0.00954	0.34254	0.03863	0.17114	0.11634	0.2085	0.07738	0.00889	0.13886	0.14925	1						
Sr ppm	-0.0237	0.02932	0.05409	-0.0297	0.0549	0.56792	-0.0289	0.0264	0.0179	-0.0254	0.11922	0.00566	0.33823	0.07214	0.08113	-0.1798	0.23303	-0.0477	0.01454	0.47688	1					
Sr ppm	-0.154	-0.0122	0.68803	-0.0124	0.83787	0.08149	-0.1134	0.34821	0.30777	0.16291	0.11296	0.40462	0.0249	0.10138	0.13147	-0.0208	0.13884	0.17087	0.00122	0.80817	0.21765	1				
Y ppm	0.57945	0.22534	-0.034	0.12181	0.00251	0.04027	0.35247	-0.0498	0.2143	0.35402	0.00287	0.0249	-0.0255	0.47121	-0.0543	0.07803	0.27202	0.00867	-0.020	-0.0023	-0.064	1				
Zn ppm	0.14139	0.10916	0.11064	0.25414	0.06063	0																				

**TABLE 4: CORRELATION MATRIX BLOCK  
SOUTH GEOCHEM REGIME – DATASET #2 (36 element; n=17 – as above)**



The following statements are a summary of the above 4 correlation matrix block data sets:

**CORRELATION MATRIX SUMMARY**

**NORTH**

n=587

- Note Cr-Ni, As-Sb, Cu-Fe
- Moderate K-Al, Sc-V, Sc-Al, Ni-Mg, Co-Mg, Au-Cd, Ba-Al, & Ba-K
- Strong Zn-Cd

n=315

- Note Au-Te, Cu-As, As-Mo, Bi-Te, Au-Fe
- Moderate Au-Se, Ga-Al, K-Tl, V-Sc, Au-Hg, V-Ga, Cr-Mg, As-Pb, Cu-Ag, V-Al, K-Al, Ag-As
- Strong Zn-Cd, Hg-Se, Cd-Se, Hg-Cd, Bi-Se, Zn-Se, Bi-Cd, Zn-Hg, Zn-Bi, Au-Bi, Te-S, Hg-Bi, Au-Zn, Au-Cd

**SOUTH**

n=39

- Note Cu-Fe
- Moderate K-V, Fe-Co, As-La, V-Sc, Pb-Hg, Au-W, Ni-Co, P-K, Fe-P
- Strong K-Al

n=17

**TOP 10 RELATIONSHIPS: W-P, K-P, Bi-Ag, Tl-La, Hg-Ag, Cu-Mn, Co-Fe, Co-Sc, Hg-Bi, As-Tl**

**RECOMMENDED Au TARGETING PATHFINDER ELEMENTS:**

- NORTH Zn, Hg
- SOUTH W (Hg)

TABLE 5: SUMMARY OF SELECT STATISTICS FROM NORTH & SOUTH GEOCHEM REGIMES

<b>SELECT STATISTICS ON SOIL SAMPLES</b>						
<b>Jubilee Mountain Area</b>						
	<b>MEAN</b>		<b>95th %tile</b>		<b>MAXIMUM</b>	
	<b>NORTH</b>	<b>SOUTH</b>	<b>NORTH</b>	<b>SOUTH</b>	<b>NORTH</b>	<b>SOUTH</b>
<i>Au ppb</i>	7.03	9.59	18	21	495.4	22
<i>Ag ppm</i>	0.38	0.23	1.1	0.6	12.5	2.7
<i>Bi ppm</i>	3.17	0.18	5.3	0.3	315.3	1.4
<i>As ppm</i>	20.74	8.73	34	23.6	2108	41.4
<i>Sb ppm</i>	2.22	2.05	7	7	225	11
<i>W ppm</i>	3.32	3.35	5.4	8	149	11
<i>Hg ppb</i>	139	72	730	210	4550	850
<i>Cu ppm</i>	117.92	41.27	289	105	1788	232
<i>Ni ppm</i>	179.86	72.74	493.4	283	2198.9	471
<i>Cr ppm</i>	136.92	65.38	361	248	2494	325
<i>Cd ppm</i>	1.06	0.67	1.6	3.1	215.7	5.1
<i>Zn ppm</i>	146.77	100.21	256	377	10000	398
<i>Pb ppm</i>	24.92	14.55	74.9	48	961.1	85.3
<i>Te ppm</i>	0.36	0.19	0.4	N/A	16.3	0.2
<i>Tl ppm</i>	0.85	0.16	2.5	0.5	7.7	0.7
<i>Fe %</i>	3.49	2.7	5.66	5.33	15.94	6.52
No. of Samples	n = 587		n = 39			
	n = 315		n = 17			
<b>TOTAL No. SOIL SAMPLES</b>	<b>n=626</b>					

Refer to APPENDIX 1 for complete set of statistics for all elements.

### Soil Geochemistry & Work Proposal Discussion

Gold correlation statistics reveals a noted 'strong' relationship with mobile elements Zn and Hg in the North Geochem Regime making them good pathfinders for targeting. Bi, commonly associated with Tombstone Suite Gold Deposits has a strong relationship with Hg in the North Geochem Regime as well. In the South Geochem Regime, Au-W and Hg-Bi retain 'moderate' relationships – making Hg a good pathfinder for targeting in this regime. Refer to Tables 1 to 4; also, refer to Table 5, correlation summary above.

Mean values and 95<sup>th</sup> percentile plots are similar in the North and South Geochem Regimes regarding: Au, Sb, W, and Fe, but all other elements are highly variable with respect to the 2 regimes. Refer to Table 5.

The sol geochemical data was analyzed with respect to 4 groups: 'Elements of Interest' that include Au, Ag, Cu, Ni, and Cr (Figure 1); 'Possible Gold Pathfinders' that include Zn, Hg, and W (Figure 2); 'Gold Association Elements' that include Bi, As, and Sb (Figure 3); and 'Alteration Elements', K and Fe (Figure

4). The following discussion/observations were done in context with interpreted air photo lineaments compilation plots (Figure 5).

Some general statements can be made on the anomalous clusters noted in the plots (Figures 1-4). The most prominent multi-anomalous cluster with the exception of the alteration group, occurs at the east end of 'TARGET 3' or apex of the granitoid intrusive that include anomalous Au-Ag-Cu-Ni-Cr-Zn-Hg-As near and around sample #24,279 (549 581mE, 6 672 685mN). A prominent anomalous cluster comprising the pathfinder Hg with (Au)-Ni-(Sb-Bi) occurs about the intersection of a NNW and ENE trending lineaments at (549 000mE, 6 674 000mN). Another cluster concerning the pathfinders Hg with As and K occur at the west end of TARGET 3. Definitive boundary lineaments along the contacts of the intrusive at TARGET 3 are coincident with some of the anomalous element mentioned above. It would be a logical move to target the contacts of the intrusives on the property as suggested in Figure 6; ie.: see TARGETS 1 & 2.

Also, as a general statement; there are numerous anomalous elements in the main soil grid centered at (550 000mE, 6 675 190mN); however, these anomalies are not coincident with documented lineaments. Two reasons are suggested: 1) the anomalies are in the middle (not the edges) of a structural domain whereby the sectional geological cartoon (R. Zuran, 2013) shows a intrusive at depth – hence giving rise to scattered anomalies; 2) the 3 data sets (2011, 2012 & 2013) can be problematic when relating some elements across these sets; particularly noted for Hg and Bi, for example – see below.

*The diagram shows the 2012 soil line to be strongly anomalous yet the 2013 in fill lines are not – possible difference in lab procedure; the data is problematic here.*



Utilizing the data from the air photo analysis report (R. Zuran, 2013) and the soil geochem analysis and plots from this report, a rough 10 day, 4 person work program may cover all the targets of interest - weather permitting and if teams start at each site (ie helicopter set outs). A ten day program based out of camps would reduce the number of targets to be investigated, depending. Refer to Figures 1- 6 and Table 6 below.

TABLE 6: PROPOSED 2014 WORK PROGRAM

TARGET	SOILS	ROCKS	Prospect-GEOLOGY	MAN-DAYS	est. DAYS	PERSONEL
1	60	15	x	6	2	geologist, assistant, soil technician
2	74	15	x	6	2	geologist, assistant, soil technician
3	92	0	0	6	3	2 soil technicians
4	46	5	x	4	2	geologist, soil technician
5	37	10	x	4	2	geologist, soil technician
6	5	5	x	1	0.5	geologist, assistant
7	5	5	x	1	0.5	geologist, assistant
8	32	0	0	1	1	1 soil technician
Trench	0	10	x	0.5	1	geologist, assistant
NW Corner	10	4	x	1	1	geologist
<b>Totals</b>	<b>351</b>	<b>65</b>		<b>30.5</b>		

*\*assuming helicopter set out to each work site - (a camping scenerio would increase the time, depending.)*

*\*\* roughly 4 man crew may take ~ 10 days (2 geologists, 2 assistants/soil technicians)*

**References**

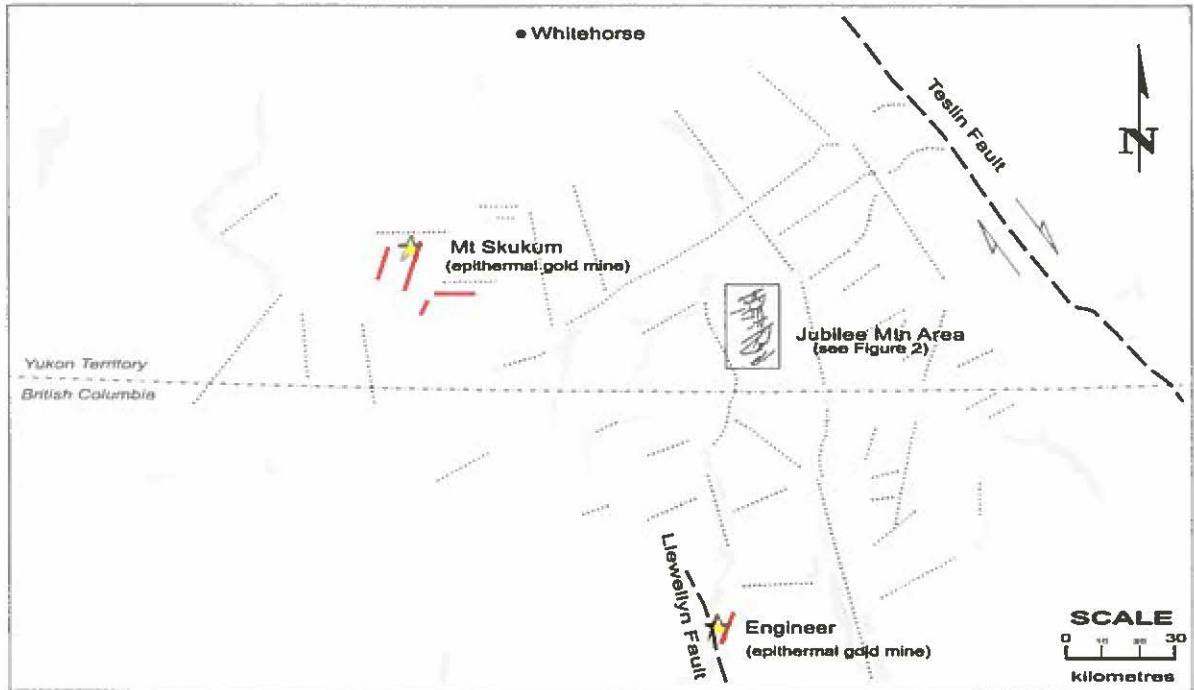
YGS MapMaker OnLine <http://mapservices.gov.yk.ca/YGS/WebMap.aspx>

Zuran, R., 2013, SHORT REPORT – AIR PHOTO ANALYSIS, Jubilee Mtn. Area. Report for All-In Exploration Solutions.

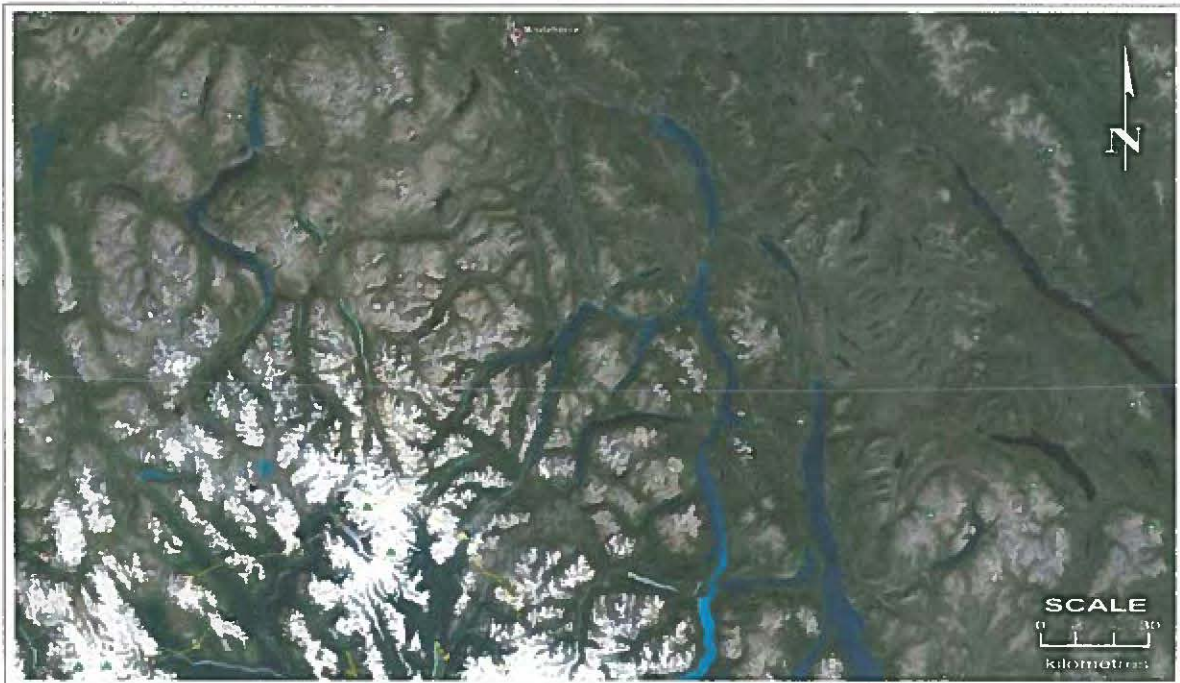
Zuran, R., 2013, SHORT FIELD REPORT, Jubilee Mtn. Area. Report for All-In Exploration Solutions.



## REGIONAL LINEAMENTS



## SATELLITE IMAGE ONLY



\*Taken from Google Earth

## LEGEND

-  Historic Producing Gold Mine
-  Sub-economic and economic documented gold veins
-  Fault
-  Satellite lineament
-  Provincial border
-  Air photo lineaments & faults in the Jubilee Mtn. area

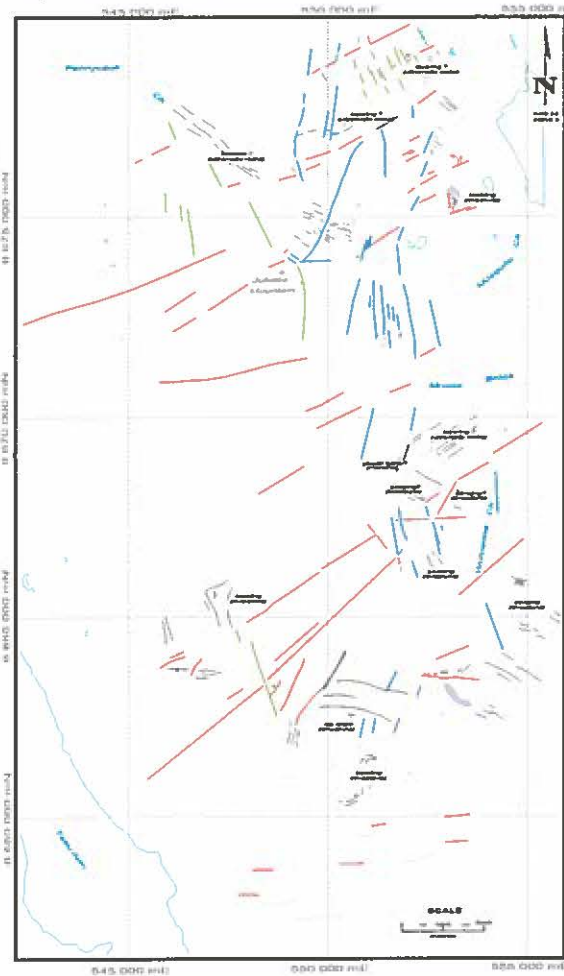
## ALL-IN EXPLORATION SOLUTIONS

Southern Yukon, Northern BC., Canada  
**SATELLITE & AIR PHOTO  
 LINEAMENTS**  
 Regional Outlook

AUTHOR: R. Zuran

FIGURE 1  
 DATE: November, 2013

### 2a) AIR PHOTO DATA



#### LEGEND

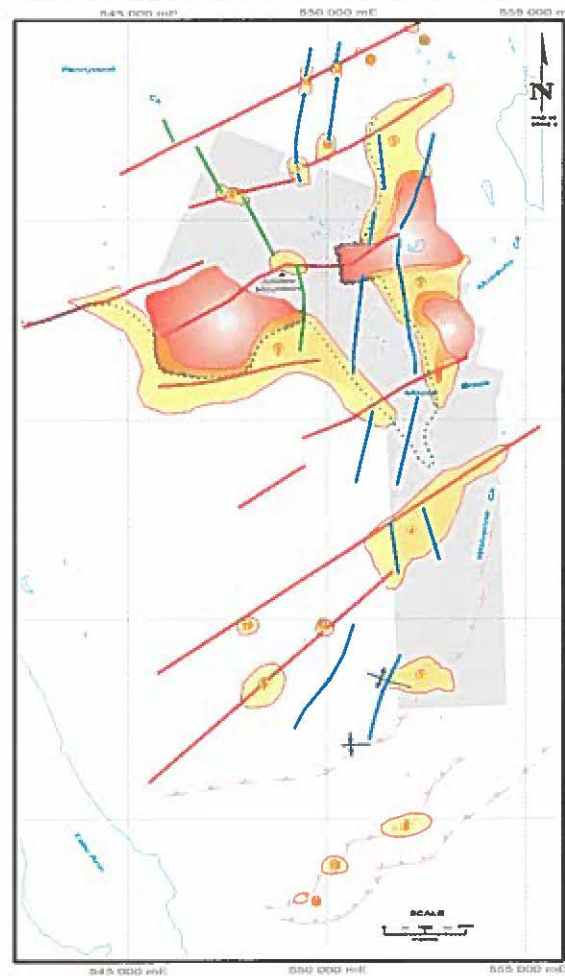
##### Air Photo Lineaments

- east to northeast trending
- north-ish to north-northeast trending
- north-ish to northwest trending
- Curvi-linear, east-ish to northeast trending
- structural fabric

##### Attitudes (estimated) - Structural Fabric

- Shallow (0-20 degrees)
- Moderate (20-60 degrees)
- Steep (60-90 degrees)
- Vertical (90 degrees)
- Whitened or bleached outcrop

### 2b) INTERPRETATION & AREAS of INTEREST

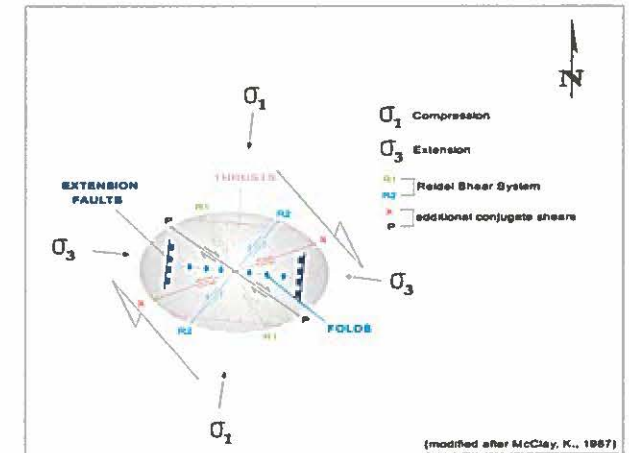


#### Interpreted Structures \*

- east to northeast trending; possible strike slip-extensional fault
- north-ish to north-northeast trending; possible extension feature
- north-ish to northwest trending; possible Reidel feature
- curvi-linear, east-ish to northeast trending; possible thrust fault
- antiform, synform

\* structures are interpreted and must be ground truthed.

### 2c) REGIONAL SHEAR ELLIPSE



#### LEGEND (cont'd)

- Ranked Area of Interest
- \*\*Contact - separating mafic-ultramafic rocks to the north, from carbonate rocks to the south
- \*\*Granitoid Intrusive Body
- \*\*\*MOO' claim block

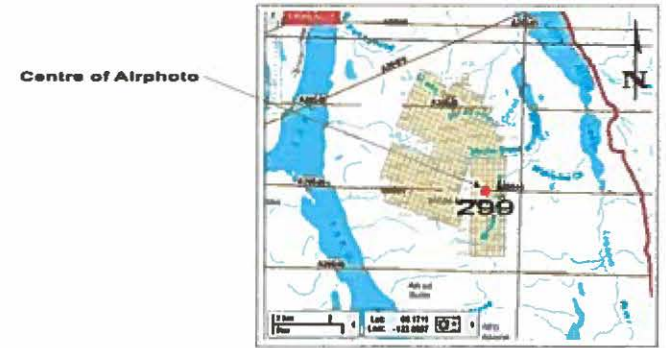
\*\*Contact, granitoid intrusive bodies, and MOO claim block taken from 'YGS Map Viewer Online': <http://mapservices.gov.yk.ca/YGS/WebMap.asp>

ALL-IN EXPLORATION SOLUTIONS

Jubilee Mtn. Area  
**AIR PHOTO ANALYSIS**  
 Compilation

AUTHOR: R. Zuran

FIGURE: 2  
 DATE: November, 2013

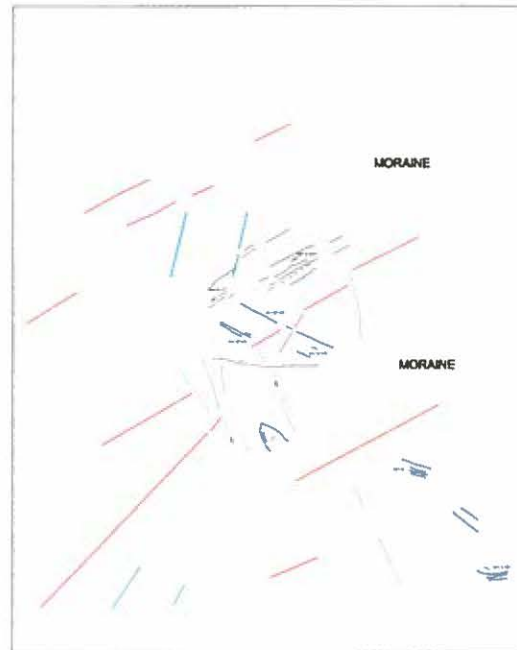


LOCATION MAP

AIRPHOTO + ANALYSIS



LINEAMENTS ONLY



AIR PHOTO ONLY



LEGEND

LINEAMENTS

- (red) East-Northeast trending
- (cyan) North-Northeast trending
- (green) North-Northwest trending

STRUCTURAL FABRIC

- (blue) bedding - limestone
- (black) other

ATTITUDE (estimated)

- ◊ Shallow (0-20 degrees)
- ◊ Moderate (20-60 degrees)
- ◊ Steep (60-89 degrees)
- ◊ Vertical (90 degrees)

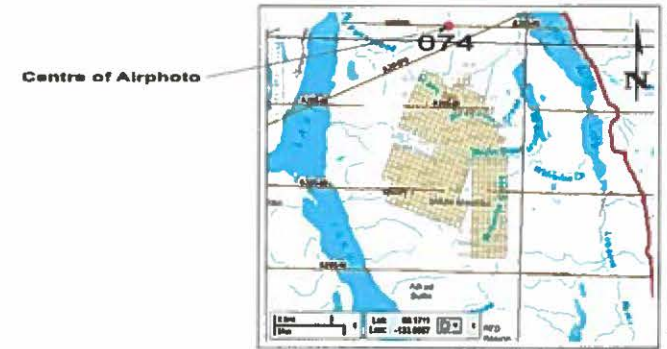
JUBILEE MTN. AREA

Yukon Territory, Canada

AIR PHOTO ANALYSIS  
Moose Brook  
A28544-299

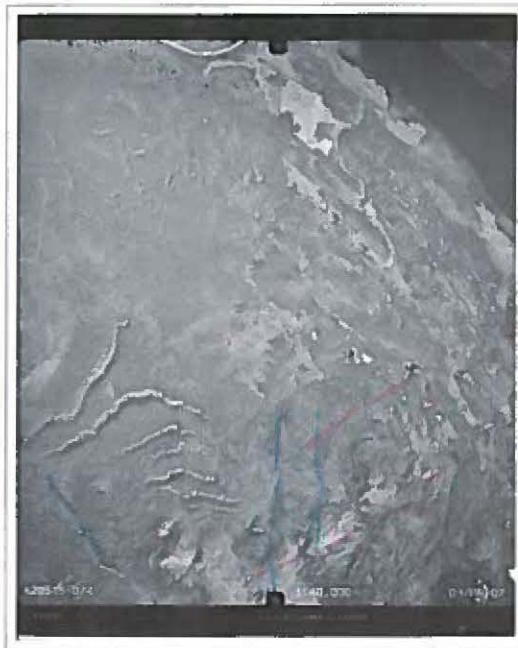
NTB: 105 D/1 & C/4  
AUTHOR: R. Zurek

FIGURE: 3  
DATE: November 2013

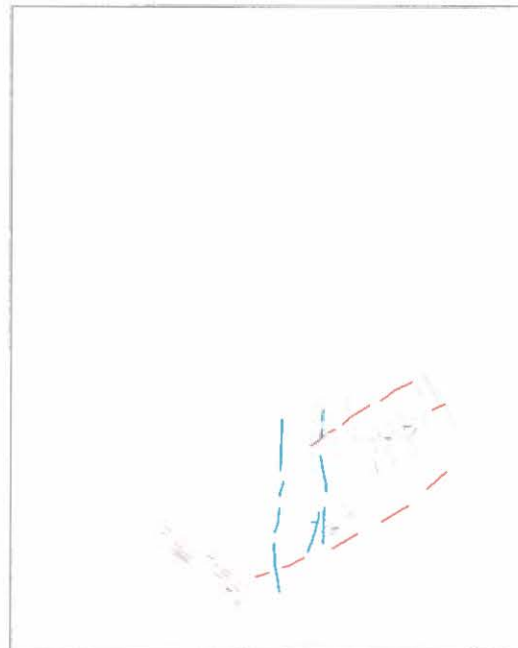


LOCATION MAP

AIRPHOTO + ANALYSIS



LINEAMENTS ONLY



AIR PHOTO ONLY



LEGEND

LINEAMENTS

- (red) East-Northeast trending
- (blue) North and/or North-Northeast trending
- (green) North-Northwest trending

STRUCTURAL FABRIC

- (blue) bedding - limestone
- (black) other

ATTITUDE (estimated)

- x Shallow (0-20 degrees)
- x Moderate (20-60 degrees)
- x Steep (60-89 degrees)
- x Vertical (90 degrees)

JUBILEE MTN. AREA

Yukon Territory, Canada  
**AIR PHOTO ANALYSIS**  
 Pennycook Ck.  
 A28545-074

NTS. 105 D/1  
 AUTHOR: R. Zuran

FIGURE 4  
 DATE: November, 2013



Centre of Airphoto



LOCATION MAP

AIRPHOTO + ANALYSIS



LINEAMENTS ONLY



AIR PHOTO ONLY



APPROXIMATE SCALE



LEGEND

LINEAMENTS

- (red) East-Northeast trending
- (cyan) North-Northeast trending
- (green) Northwest trending

STRUCTURAL FABRIC

- (blue) bedding - limestone
- (black) other

ATTITUDE (estimated)

- / Shallow (0-20 degrees)
- / Moderate (20-60 degrees)
- / Steep (60-89 degrees)
- / Vertical (90 degrees)

DISCOLOURED FEATURES

- 'Whitened' or bleached outcrop

JUBILEE MTN. AREA

Yukon Territory, Canada  
**AIR PHOTO ANALYSIS**  
 Mosquito Ck.  
 A28545-396

NTS: 105 D/1  
 AUTHOR: R. Zuran

FIGURE: 5  
 DATE: November, 2013



LOCATION MAP

AIRPHOTO + ANALYSIS



LINEAMENTS ONLY



AIR PHOTO ONLY



LEGEND

LINEAMENTS

- (red) East & East-Northeast trending
- (cyan) North-Northeast trending
- (green) North-Northwest trending

STRUCTURAL FABRIC

- (blue) bedding - limestone
- (black) other

ATTITUDE (estimated)

- ∠ Shallow (0-20 degrees)
- ∠ Moderate (20-60 degrees)
- ∠ Steep (60-89 degrees)
- ∠ Vertical (90 degrees)

DISCOLOURED FEATURES

- 'Whitened' or bleached outcrop

JUBILEE MTN. AREA

Yukon Territory, Canada  
**AIR PHOTO ANALYSIS**  
 Wolverine Ck.  
 A28546-321

NTS. 105 D/1 & C/4  
 AUTHOR: R. Zuran

FIGURE: 6  
 DATE: November, 2013



**LOCATION MAP**



**LEGEND**

**LINEAMENTS**

- (red) East-Northeast trending
- (cyan) North-Northeast trending
- (Green) North-Northwest trending
- (red) thrust (?)

**STRUCTURAL FABRIC**

- (blue) bedding - limestones
- (black) other

**ATTITUDE (estimated)**

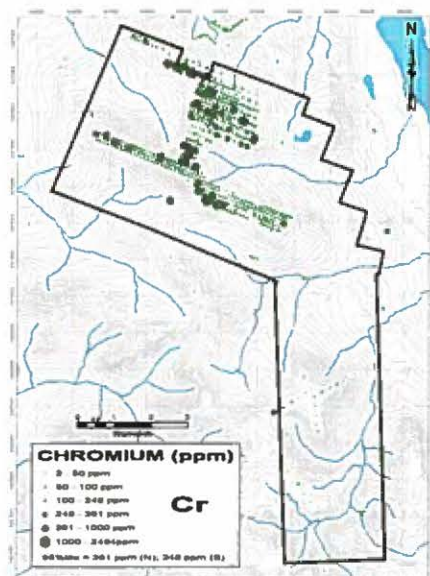
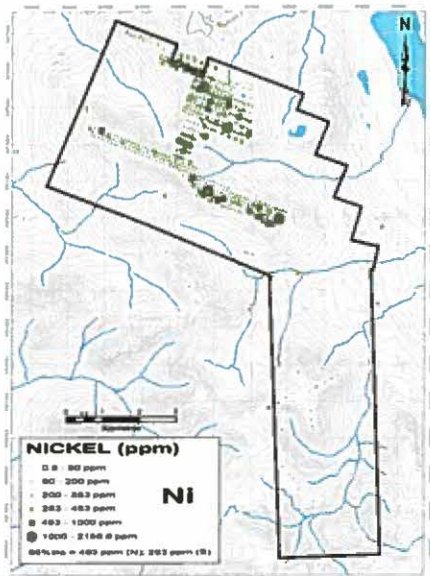
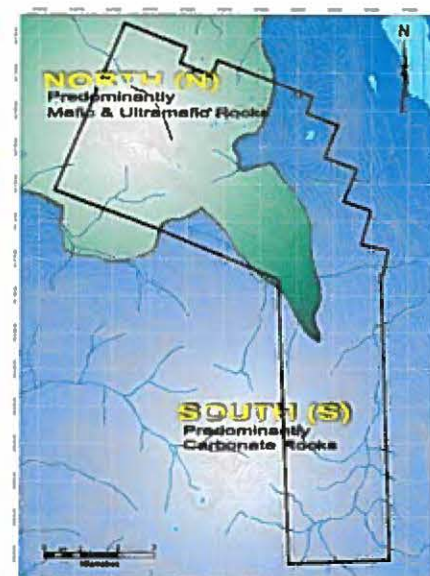
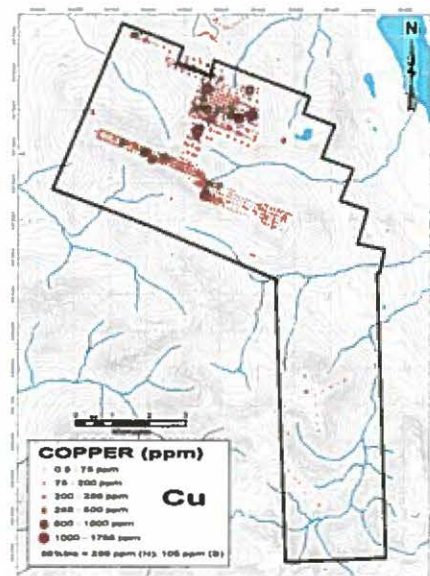
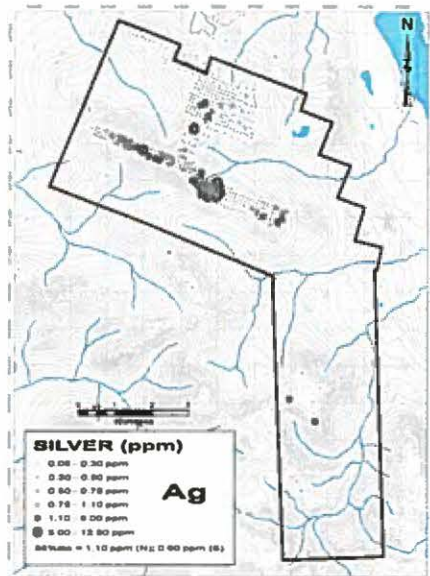
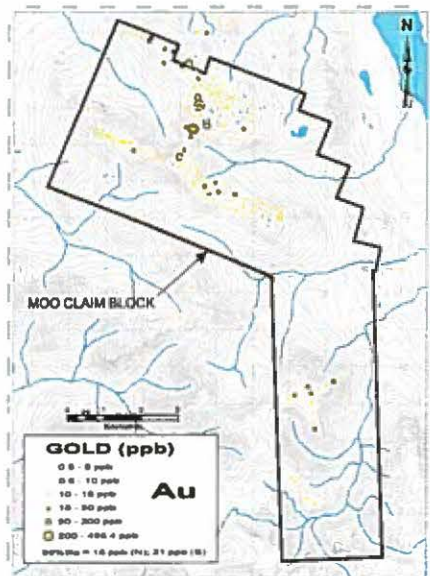
- ∠ Shallow (0-20 degrees)
- ∠ Moderate (20-50 degrees)
- ∠ Steep (50-80 degrees)
- ∠ Vertical (90 degrees)

**JUBILEE MTN. AREA**

*Yukon Territory, Canada*  
**AIR PHOTO ANALYSIS**  
**Leine Ck.**  
 A28546-323

NTS. 105 D/1 & C/4  
 AUTHOR: R. Zurek

FIGURE: 7  
 DATE: November, 2013



## GEOCHEM REGIMES

\*\*Correct, gridded, uninterpolated, and MOO claim block taken from  
"VGS Map Viewer Online" <http://mapservices.gov.nz/arcgis/MapApp.aspx>

### SELECT STATISTICS ON SOIL SAMPLES

Jubilee Mountains Area

	MEAN	95%ile	MAXIMUM
	North South	North South	North South
Au ppb	7.08 9.59	13.21	485.4 23
Ag ppm	0.38 0.21	1.1 0.5	13.3 2.7
Al ppm	1.17 1.2	1.5 1.1	2.9 1.4
As ppm	20.74 8.73	34 23.6	1305 41.4
Bi ppm	3.22 2.05	7.7	325 15
Br ppm	3.32 3.15	5.4 6	149 15
Hg ppb	1.59 2.7	730 210	4580 300
Cd ppm	127.82 41.27	389 165	1785 232
Mn ppm	179.88 72.24	488 4 283	2588 9 471
Cl ppm	136.82 48.38	361 248	1084 323
Co ppm	1.08 0.67	1.6 1.1	215 7 5.1
Zn ppm	146.77 303.21	256 377	10330 398
Pb ppm	34.82 14.16	74 9 48	861.1 105.3
Ti ppm	0.36 1.14	0.4 1.4	16.7 1.1
Fe %	5.48 2.7	8.66 1.18	25.94 6.12

No. of Samples: N=387 S=18  
TOTAL No. SOIL SAMPLES: 405

## ALL-IN EXPLORATION SOLUTIONS

Jubilee Mtn. Area

## GOLD, SILVER, COPPER, NICKEL & CHROME

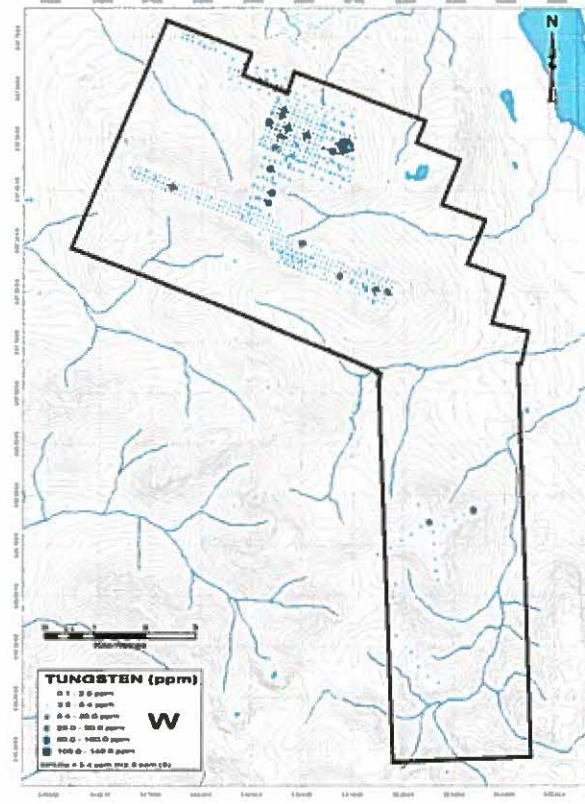
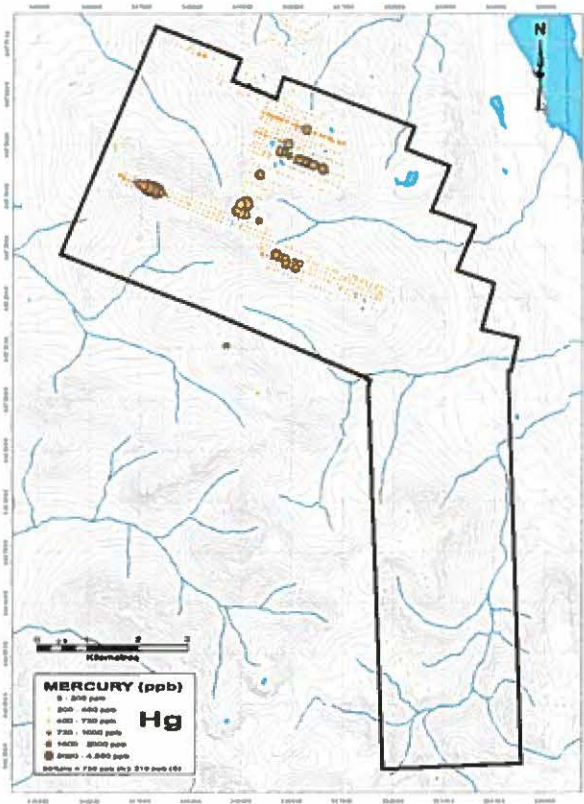
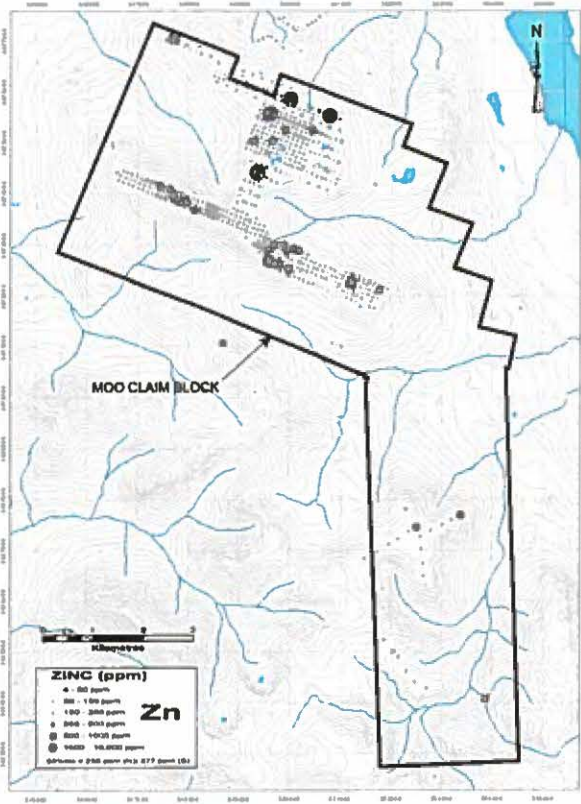
SOIL GEOCHEMISTRY  
Elements of Interest

AUTHOR: R. Zuran

FIGURE: 1  
DATE: February, 2014

\* Samples with solid black outlines are 95%ile or above





**SELECT STATISTICS ON SOIL SAMPLES**

Element	Mean	SD	Max
Au ppm	7.80 0.38	32.21	105.4 11
Ag ppm	0.30 0.23	2.3 0.5	12.8 2.7
W ppm	1.11 0.14	1.1 0.1	10.5 1.1
Al ppm	32.74 2.72	34 23.6	2300 41.8
As ppm	3.22 2.05	7.7	270 11
Br ppm	3.22 2.05	8.8 0	140 11
Hg ppm	120 77	700 238	4000 400
Cu ppm	137.82 43.27	200 105	1700 110
Cl ppm	170.80 71.74	405 0 300	2200 9 11
Cr ppm	130.02 46.38	305 240	3400 105
Co ppm	1.80 0.67	5.8 1.1	715.7 4.1
Mo ppm	146.77 300.23	250 377	3000 100
Pb ppm	34.92 34.56	34 0 40	164.3 10.1
Fe ppm	6.00 1.00	25 1.1	7.1 1.1
Pp Pp	5.40 2.7	5.00 1.21	15.94 6.11

TOTAL No. SOIL SAMPLES = 426

\*\*Correct, generalised, intensive buffered, and MOO claim block taken from VGS Map Viewer Online: <http://mapviewer.gov.yk.ca/VGS/MapViewer.aspx>

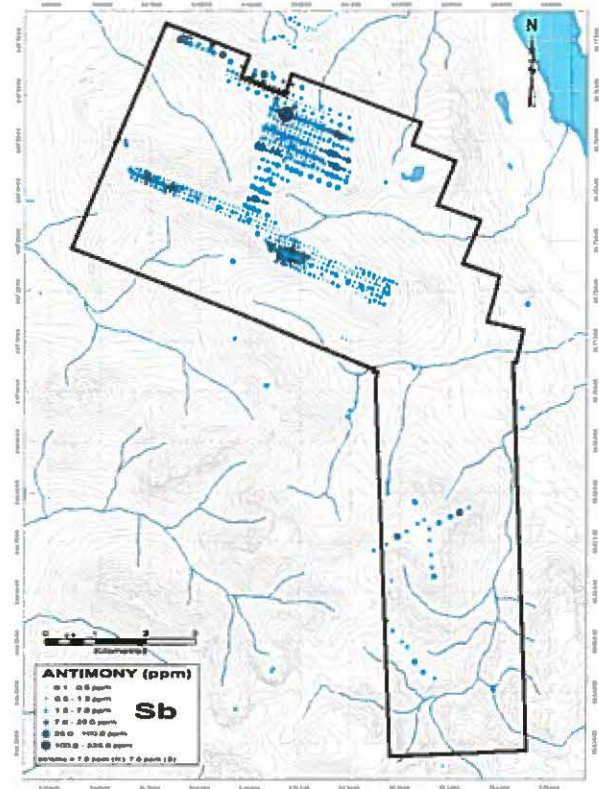
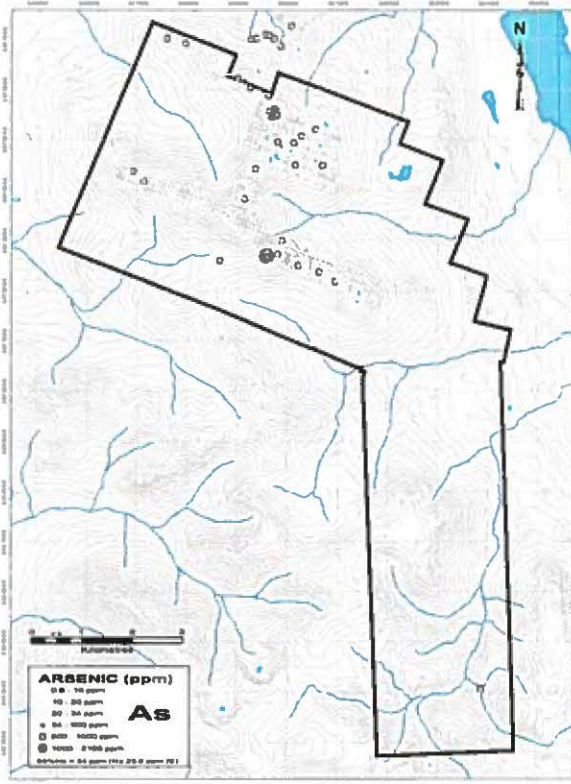
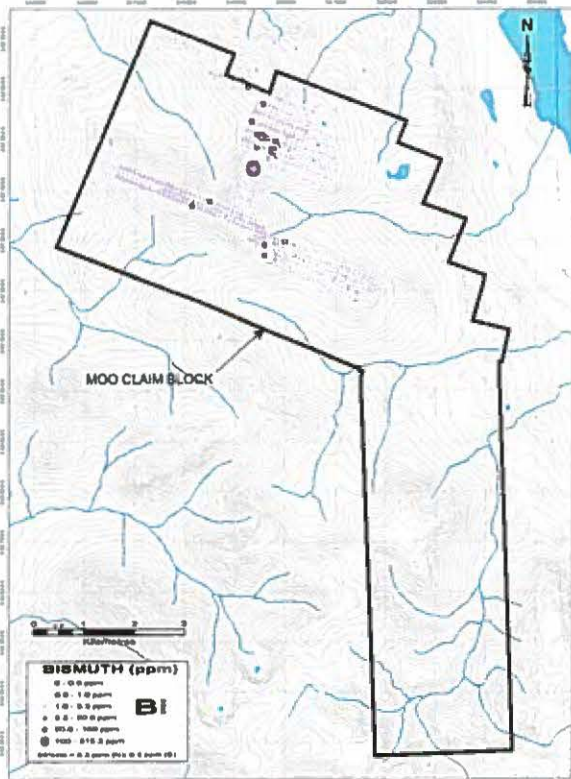
\* Samples with solid black outlines are 95%tile or above

**ALL-IN EXPLORATION SOLUTIONS**

Jubilee Mtn. Area  
**ZINC, MERCURY,  
 &  
 TUNGSTEN**  
 SOIL GEOCHEMISTRY  
 Possible Gold Pathfinders

AUTHOR: R. Zursan

FIGURE: 2  
 DATE: February, 2014



**SELECT STATISTICS ON SOR SAMPLES**

**Jubilee Mountain Area**

	MEAN ppm (n=20)	90th %ile ppm (n=20)	MAXIMUM ppm (n=20)
As ppm	2.03 0.39	12.21	405 4.22
Ag ppm	0.50 0.21	1.1 0.6	12.5 2.7
Bi ppm	3.37 0.10	5.3 1.1	112.3 1.1
Au ppm	20.74 0.75	34 21.6	2120 41.4
Sb ppm	2.22 2.05	7.7	225 1.1
Pb ppm	3.32 2.35	5 4.8	140 1.1
Hg ppm	130.72	730 730	4000 4100
Cu ppm	117.82 41.27	200 100	1700 212
Cr ppm	176.86 72.74	483.4 200	2100 0 471
Co ppm	1.86 92 63.30	362 240	2404 225
Cd ppm	1.20 0.67	3.0 3.1	213.7 5.1
Zn ppm	140.77 103.21	250 177	3100 300
Pb ppm	24.92 14.15	74.9 40	961.1 45.9
Se ppm	0.86 1.10	0.4 1.0	14 1.1
Tl ppm	0.05 0.10	0.0 0.0	7.7 1.1
Fe %	3.40 2.7	5.00 1.33	13.94 0.52

n = 20  
TOTAL No. SOR SAMPLES = 628

\*\*Corrected, geostatistical outliers, and MOO claim block taken from "VGS Maps Viewer Online": <http://mapservices.gov.ca/vgs/MapMap.asp>

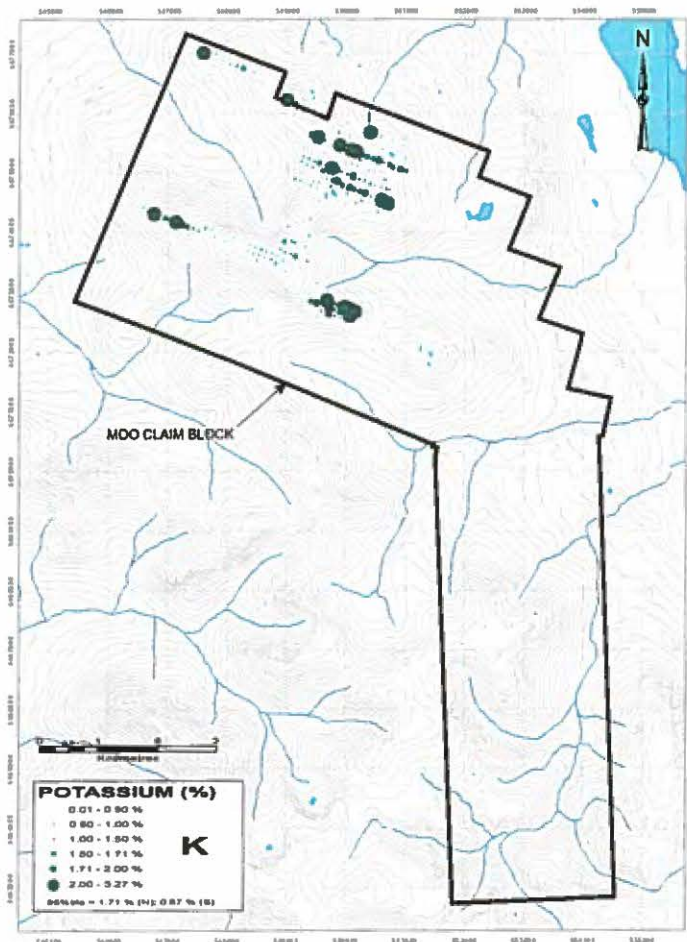
\* Samples with solid black outlines are 95thile or above

**ALL-IN EXPLORATION SOLUTIONS**

Jubilee Mtn. Area  
**BISMUTH, ARSENIC,  
&  
ANTIMONY**  
SOIL GEOCHEMISTRY  
Gold Associated Elements

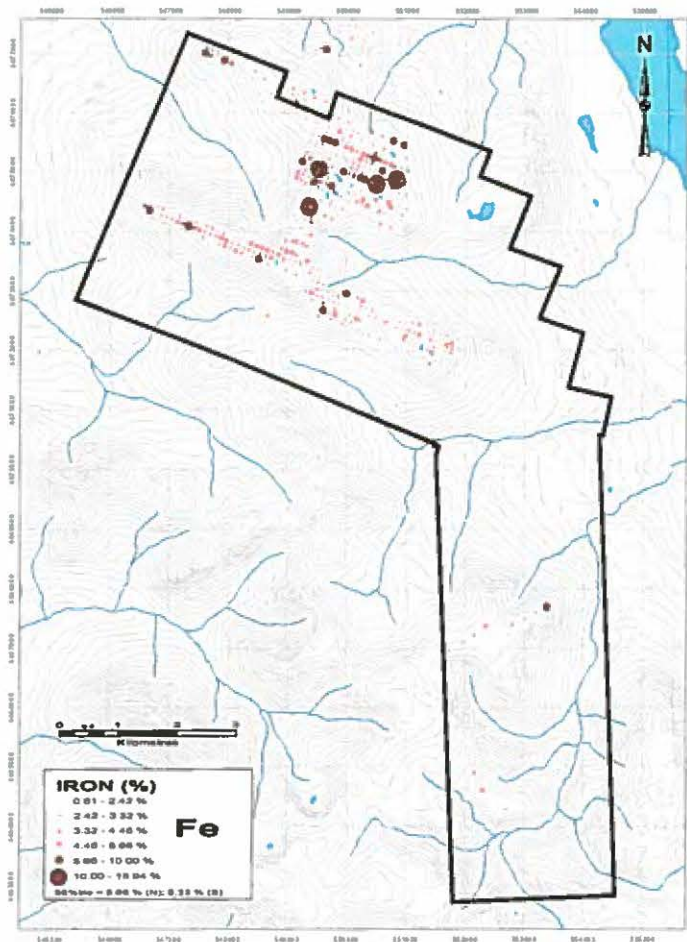
AUTHOR: R. Zuran

FIGURE: 3  
DATE: February, 2014



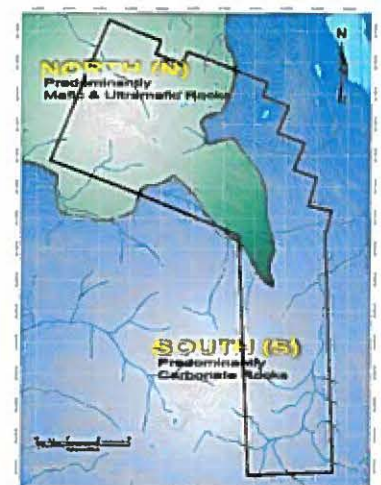
**POTASSIUM (%)**  
**K**  
 95%ile = 1.71 % (N); 0.87 % (S)

STATISTICS - K			
North		South	
z	n	z	n
Mean	0.5327987	Mean	0.2089288
Standard Error	0.02377674	Standard Error	0.04420238
Median	0.2	Median	0.11
Mode	0.50	Mode	0.20
Standard Deviation	0.23708258	Standard Deviation	0.20570453
Sample Variance	0.05620996	Sample Variance	0.04230625
Kurtosis	1.54940813	Kurtosis	0.7775772
Skewness	1.72840382	Skewness	1.41317224
Range	3.36	Range	0.90
Minimum	0.01	Minimum	0.00
Maximum	0.27	Maximum	0.22
Sum	202.68	Sum	30.1
Count	387	Count	30



**IRON (%)**  
**Fe**  
 95%ile = 6.00 % (N); 0.33 % (S)

STATISTICS - Fe			
North		South	
z	n	z	n
Mean	6.0000000	Mean	2.30203861
Standard Error	0.01300000	Standard Error	0.270472556
Median	3.1	Median	2.34
Mode	3.02	Mode	1.46
Standard Deviation	1.40000000	Standard Deviation	1.00000000
Sample Variance	1.96000000	Sample Variance	1.00000000
Kurtosis	20.00000000	Kurtosis	6.07000000
Skewness	1.14000000	Skewness	0.00000000
Range	14.00	Range	9.00
Minimum	0.00	Minimum	0.00
Maximum	14.00	Maximum	9.00
Sum	200.00	Sum	69.00
Count	33	Count	30



**GEOCHEM REGIMES**

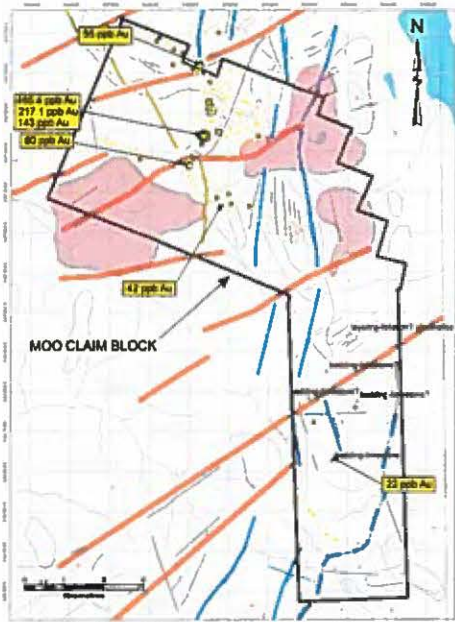
\*Contour, gradient, fracture, and MOO claim block taken from "YDS Map Viewer Online" <http://mapviewer.usgs.gov/yds/ydsWebSite.asp>

**ALL-IN EXPLORATION SOLUTIONS**

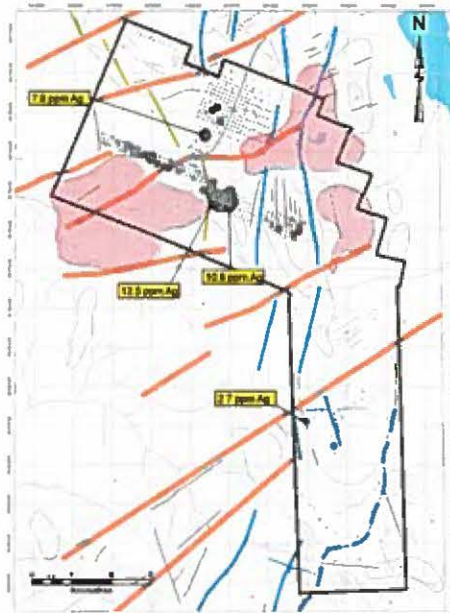
Jubilee Mtn. Area  
**POTASSIUM & IRON**  
 SOIL GEOCHEMISTRY  
 Alteration Elements

AUTHOR: R. Zuran  
 DATE: February, 2014

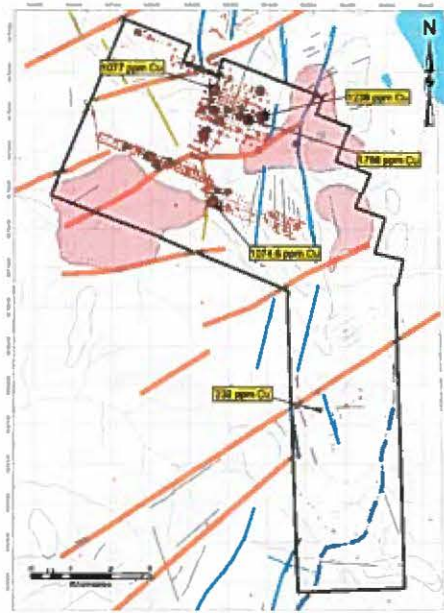
FIGURE 4



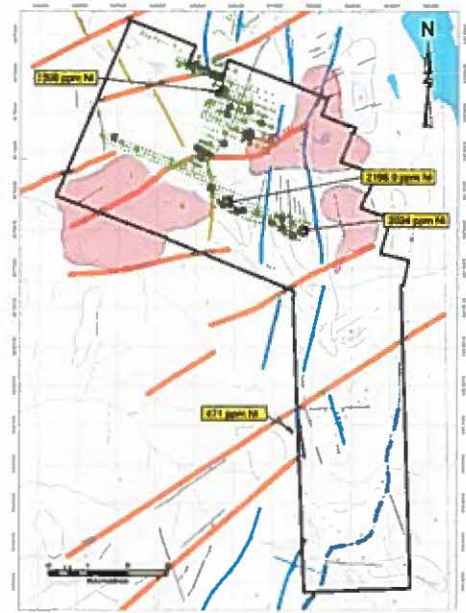
**GOLD - Au (ppb)**



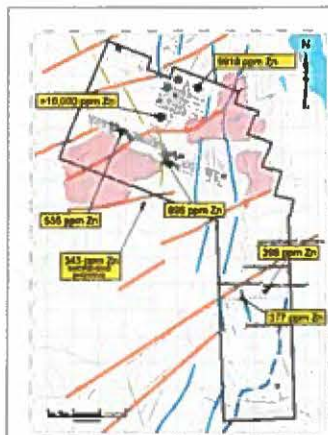
**SILVER - Ag (ppm)**



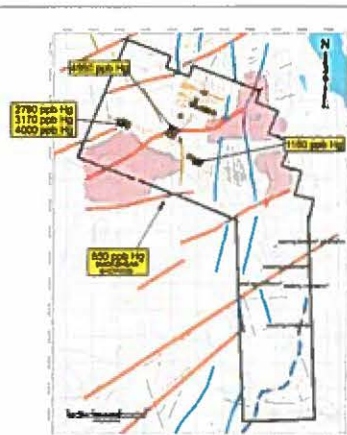
**COPPER - Cu (ppm)**



**NICKEL - Ni (ppm)**

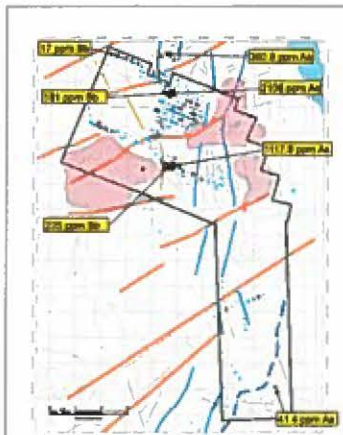


**ZINC - Zn (ppm)**

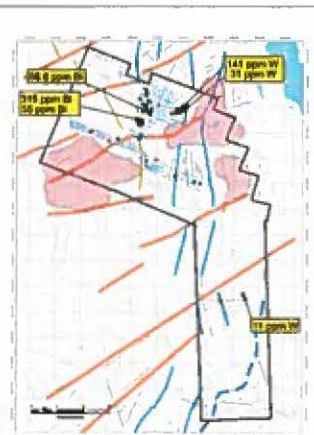


**MERCURY - Hg (ppb)**

**POSSIBLE GOLD PATHFINDERS**



**ARSENIC & ANTIMONY  
As & Sb (ppm)**



**BISMUTH & TUNGSTEN  
Bi & W (ppm)**

**GOLD ASSOCIATED ELEMENTS**

**LEGEND**

\*\*\*Detailed Inclusive Study

**Interpreted Structures \***

- Red line: east to northwest trending; possible strike-slip extensional fault
- Blue line: north-south to north-northeast trending; possible extensional feature
- Green line: north-south to northwest trending; possible thrust feature
- Pink line: east-west to northwest trending; possible thrust fault
- Blue star: uniform, synform

**Actual Air Photo Lineaments**

\* structures are interpreted and must be ground truthed

\*\*Contact, ground line, and MOO claim block taken from YGS Map Viewer Online: <http://mapviewer.nv.gov> or YGS/MSM/dsp.asp

**ALL-IN EXPLORATION SOLUTIONS**

Jubilee Mtn. Area

**COMPILATION PLOTS**

SOIL GEOCHEMISTRY  
with  
AIR PHOTO INTERPRETATION & YGS GEOLOGY

AUTHOR: R. Zuran

FIGURE: 5  
DATE: February, 2014



**SHORT REPORT**  
**AIR PHOTO ANALYSIS**

---

**JUBILEE MOUNTAIN AREA**

Centered On:

548 870 mE, 6 668 400mN  
(NAD 83, Zone 8V)

Whitehorse Mining District

Prepared By:

Rick Zuran B.Sc.  
Box 10159  
Whitehorse, Yukon  
Y1A 7A3  
867-633-2993

For

ALL-IN Exploration Solutions  
11 Redwood St.  
Whitehorse, Yukon  
Y1a 4B2  
867-332-4437

November 16<sup>th</sup>, 2013

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### **Air Photos**

Air photos used for this analysis were flown along 4 east-west trending flight lines by the government at a scale of 1:40,000 and were made into hard 10x10 inch large format black and white photographs. The thirteen air photographs analysed were shot in August, 2007. Refer to Figures 3 to 7 for flight line locations.

### **Work Completed**

Prior to analyzing the air photos, a cursory study of regional satellite imagery taken from Google Earth was completed – the image included two historic gold producers: Mount Skukum gold mine area, 70 kilometers to the west northwest ; and Engineer Mine, 70 kilometres to the south-southwest of Jubilee Mountain, respectively. Refer to Figure 1.

A large format stereoscope was used on the air photo sets to visually look for directional lineaments; discolored features, and structural fabric. In some cases the structural fabric was evaluated as bedding, foliation, layering, or glacial moraine. Focus was on structural elements in outcrop rather than surficial moraines – in some cases attitudes of the features were guesstimated; directional lineaments were colour coded. The data collected was documented directly onto the air photographs as 5 figures. Refer to Figures 3 to 5.

The data from Figures 3 to 5 were transferred and compiled on to one map - NAD 83 (Zone 8) topographic data base using AutoCad; Refer to Figure 2a. This data has been stored as shape files to be used on ArcView at a later date. The collected data on Figure 2a was simplified and interpreted as a second map which includes YGS mapping of nearby granitoid intrusive bodies; a major mafic-ultramafic/carbonate contact; and 19 ranked 'areas of interest' to be ground truthed; refer to Figure 2b and table below. Interpretation, in part, was accomplished using a regional strain ellipse (McClay, K., 1987); refer to Figure 2c.

### **Regional Orientations**

The most prominent structural feature in the region is the Teslin Fault Zone, located 60 kilometers to the northeast of Jubilee Mountain; easily identified on satellite imagery. The Teslin Fault Zone is a north-northwest dextral strike slip fault zone can be trace for 400 kilometres in the Yukon. The fault zone has been interpreted as a lithospheric suture or a crustal transpression of complexly deformed supracrustal and plutonic rocks (Kerjzer, M., 2000).

Two historic, structurally controlled, gold producers in the region include the epithermal gold veins at Engineer Mine and epithermal gold, silver and related mesothermal gold-silver + base metal veins of the Mount Skukum area. A list of some of the veins and their orientations include:



*INSERT FIG 1*

### *Mount Skukum Area*

<b>Chieftain Hill Fault</b>	<b>NE</b>
<b>Bernie Ck. Fault</b>	<b>ENE</b>
Main Cirque Veins	NNE
Lake Zone Veins	NNE
Evening Vein	E
Ocean Vein	E
Johnny B. Vein	E
Rainbow	ENE
Goddell Gully	E
Becker-Cochran	E

(Naas, C., 2012)

### *Engineer Mine*

<b>Llewellyn Fault</b>	<b>NNW</b>
A4 Vein	NNE
No. 1 Vein	NE
No. 2 Vein	NE
No. 3 Vein	NE
Double Decker Vein	NNE
No 5 Vein	NNE
Engineer Vein	NNE
Boulder Governor-Vein System	NNE

(Dominy, S.C. and Platten, I.M., 2011)

Note the consistent easterly and north-northeast mineralized vein orientations.

### **Interpretation and 'Areas of Interest'**

#### *Figure 1*

This regional scale figure clearly shows a 'diced' topography of numerous northeasterly lineaments and orthogonal north-northwesterly lineaments – perhaps related to the dextral Teslin Fault Zone.; the Llewellyn Fault is also sub-parallel to this orientation and has a dextral strike slip displacement. Many of the lakes seem to be coincident with these orientations; in particular: the property is bound by two north-northwest trending lakes. These two property-bounding lineaments are interpreted to be dextral shears or faults. The orthogonal northeasterly lineaments are extensional 'step-down' structures and extend further to the northwest within the Whitehorse Trough Terrane. The interpretation sets up the 'Regional Shear Ellipse Model' as shown in Figure 2c.

#### *Figures 2a, 2b & 2c*

This property scale figure comprises numerous east-northeast lineaments; with lesser offset north-northeasterly lineaments; north-northwesterly lineaments; and rare easterly curvilinear structures in the south end of the property. Utilizing the regional shear ellipse model reflects an interpretation suggesting the numerous red coloured northeasterly lineaments to be shear-extensional step-down structures ('X'); dark blue coloured north-northeasterly lineaments to be extensional structures; green coloured northwesterly lineaments to be reidel shear structures (R1); and pink coloured curvilinear structures in the south - are interpreted to be compression reverse or thrust faults.

The most prominent structures of the survey are the two red northeasterly extensional shears that appear to offset the blue northerly pair; they intersect at 'Area of Interest #4'. Area of Interest #'s: 1, 2 and 3, are ranked higher than the other 16 because: they are proximal to the biotite-granite intrusions; include the major contact zone between the relatively porous and reactive limestones and less permeable but metal rich mafic/ultramafic assemblage; and also include numerous extensional (blue) and locally intersecting shear-extensional structures (red).

Three interpreted thrust faults are south and southwesterly of the claim block. The one containing Areas of Interest #'s 6, 13 & 18 show defined shallow-moderate dips in the stereo air photo set and is worthy of ground truthing. The thrusts to the north and south are less apparent. Refer to Figure 2b.

INSERT FIG 2

In the south part of the figure, just off the south-west edge of the Moo Claim Block; bedding attitudes suggest a pair of east-southeast trending fold axes – this observation agrees with the regional shear ellipse model. Refer to Figures 2b and 2c.

A minor note regarding very bleached looking outcrops as documented in the northeast and south east parts of Figure 2a (light blue patches); reflected light maybe one interpretation; the bleached nature may also be explained by silicification or increased white mineralogy such as tremolite, clean recrystallized limestone, or marble.

The following table documents nineteen ‘Areas of Interest’ based on proximity to granitoid intrusive bodies; the mafic-ultramafic/carbonate contact; intersecting lineaments; the favorable carbonate host rock-type; and other miscellaneous comments.

RANKED AREAS of INTEREST*						
Area	Proximal to Granitoid	Proximal to ULT/LST Contact	Intersecting Lineaments	Carbonate Hosted	Interpreted Structure (s)	Comment
1					extensional & strike slip	embayment containing LST
2					extensional & strike slip	embayment containing LST
3					extensional & strike slip	in ENE corridor
4						known hematite stained breccia zone
Jubilee Mtn.					strike slip & reidel shear	jog along ENE structural corridor
5					extensional & strike slip	jagged strike slip lineament
6					thrust fault	incised gully area - good exposure?
7					thrust fault, antiform, extensional	SW corner of claim block
8					strike slip & reidel shear	offset reidel shear ?
9					strike slip	prominent feature - large area
10					extensional & strike slip	outside claim block
11					strike slip	prominent feature
12					extensional & strike slip	outside claim block
13					thrust fault	outside claim block
14					strike slip	prominent feature - small area
15					extensional & strike slip	outside claim block - small area in ULT
16					strike slip	outside claim block - small area in ULT
17					strike slip	outside claim block - small area in ULT
18					thrust fault	outside claim block

\* areas ranked based on airphoto analysis only - ground truthing of interpreted structure imperative.

Extensional lineaments as indicated by the dark blue north-northeast orientation and the red easterly shears in Figures 2a and b maybe the prospective orientations as is documented in the mineralized vein orientations at Mount Skukum and Engineer gold mines. It is stressed that the above interpretations from the air photo study *must be ground truthed*.

## References

Dominy, S.C. and Platten, I.M., 2011; BC GOLD CORPORATION:ENGINEER GOLD PROJECT, BC, CANADA PROJECT NO. L502. Mineral Resource Estimate by Snowden: 94 pages.

Kerjzer, M., 2000; TECTONIC EVOLUTION OF THE TESLIN SUTURE ZONE AND THE WESTERN CASSIAR TERRANE, NORTHERN CANADIAN CORDILLERAN. Doctor of Philosophy, University of New Brunswick: 389 pages.

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YGS MapMaker OnLine <http://mapservices.gov.yk.ca/YGS/WebMap.aspx>

**APPENDIX**  
**FIGURES 3-7**

RANKED AREAS of INTEREST*						
Area	Proximal to Granitoid	Proximal to ULT/LST Contact	Intersecting Lineaments	Carbonate Hosted	* Interpreted Structure (s)	Comment
1					extensional & strike slip	embayment containing LST
2					extensional & strike slip	embayment containing LST
3					extensional & strike slip	in ENE corridor
4						known hematite stained breccia zone
Jubilee Mtn.					strike slip & reidel shear	jog along ENE structural corridor
5					extensional & strike slip	jagged strike slip lineament
6					thrust fault	incised gully area - good exposure?
7					thrust fault, antiformal, extensional	SW corner of claim block
8					strike slip & reidel shear	offset reidel shear ?
9					strike slip	prominent feature - large area
10					extensional & strike slip	outside claim block
11					strike slip	prominent feature
12					extensional & strike slip	outside claim block
13					thrust fault	outside claim block
14					strike slip	prominent feature - small area
15					extensional & strike slip	outside claim block - small area in ULT
16					strike slip	outside claim block - small area in ULT
17					strike slip	outside claim block - small area in ULT
18					thrust fault	outside claim block

\* areas ranked based on airphoto analysis only - ground truthing of interpreted structure imperative.



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Client: **All-In Exploration Solutions Inc.**  
 113A Platinum Rd.  
 Whitehorse YT Y1A 5M3 CANADA

Submitted By: Ed Long/Riley Gibson  
 Receiving Lab: Canada-Whitehorse  
 Received: December 17, 2013  
 Report Date: January 20, 2014  
 Page: 1 of 13

## CERTIFICATE OF ANALYSIS

WHI13000577.1

### CLIENT JOB INFORMATION

Project: Jubilee  
 Shipment ID: Batch #2  
 P.O. Number  
 Number of Samples: 339

### SAMPLE DISPOSAL

RTRN-PLP Return  
 RTRN-RJT Return

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	337	Dry at 60C			WHI
SS80	337	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	337	Saving all or part of Soil Reject			WHI
1DX2	334	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

### ADDITIONAL COMMENTS

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

Invoice To: All-In Exploration Solutions Inc.  
 113A Platinum Rd.  
 Whitehorse YT Y1A 5M3  
 CANADA

CC:



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

**CERTIFICATE OF ANALYSIS**

**WHI13000577.1**

Method	Analyte	Unit	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16		
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
24716	Soil		1.0	67.2	2.0	39	<0.1	555.6	43.4	328	3.08	99.7	17.3	0.9	26	<0.1	1.1	13.6	85	0.24	0.032	4
24717	Soil		0.9	33.3	14.2	47	<0.1	78.6	11.7	339	2.72	8.0	0.9	2.4	19	0.1	0.4	0.8	67	0.29	0.030	9
24718	Soil		0.5	40.8	7.1	48	<0.1	625.1	55.5	832	3.57	28.0	<0.5	2.9	11	0.2	0.4	0.7	50	0.20	0.018	7
24719	Soil		0.4	35.3	5.5	33	<0.1	569.4	40.5	489	2.72	16.6	1.1	1.8	8	0.1	0.4	0.5	49	0.15	0.025	5
24720	Soil		0.8	38.5	5.1	49	<0.1	924.9	82.2	1072	4.30	37.5	<0.5	2.0	14	0.1	0.3	0.7	30	0.18	0.037	6
24721	Soil		1.1	88.2	12.5	62	<0.1	240.5	20.1	387	2.78	9.3	1.2	2.0	11	<0.1	0.2	1.4	65	0.21	0.029	8
24722	Soil		2.1	69.0	9.5	80	0.1	218.8	20.5	353	2.99	10.4	<0.5	2.0	14	0.1	0.2	0.7	78	0.19	0.049	10
24723	Soil		1.6	138.4	8.4	70	<0.1	475.6	24.4	258	2.78	5.4	7.0	0.8	19	<0.1	0.2	2.3	69	0.25	0.036	8
24724	Soil		0.7	56.6	8.0	61	<0.1	159.6	19.3	379	2.59	5.1	0.6	3.1	17	0.2	0.2	0.5	66	0.27	0.055	14
24725	Soil		2.4	51.6	49.0	65	<0.1	153.2	15.3	320	2.81	7.6	1.4	3.3	11	<0.1	0.2	0.7	62	0.18	0.023	12
24726	Soil		3.7	40.7	10.4	73	0.1	118.6	14.1	297	2.45	5.8	1.7	3.9	17	0.2	0.1	0.5	60	0.26	0.045	13
24727	Soil		1.0	41.3	11.8	52	<0.1	140.4	15.3	299	2.19	3.8	0.7	3.7	14	0.1	0.2	0.5	53	0.25	0.036	12
24728	Soil		0.7	74.8	9.0	71	<0.1	211.5	25.6	405	2.59	6.3	<0.5	6.2	29	0.3	0.2	0.6	65	0.31	0.046	14
24729	Soil		0.8	34.0	15.2	114	<0.1	117.6	10.6	268	2.58	8.3	1.3	6.3	16	0.5	0.3	0.5	61	0.18	0.046	13
24730	Soil		1.7	150.1	12.7	45	0.5	67.1	7.6	194	1.47	4.1	3.8	1.1	28	0.2	0.3	1.5	38	0.32	0.079	14
24731	Soil		1.7	96.6	8.0	107	0.2	72.9	24.0	1081	4.19	10.2	2.6	3.0	24	0.5	0.4	0.7	110	0.29	0.059	10
24732	Soil		0.8	45.3	10.2	51	0.1	96.7	13.2	326	2.25	4.9	1.3	5.8	17	0.1	0.2	0.2	56	0.23	0.036	13
24733	Soil		0.6	46.5	8.8	54	<0.1	113.7	15.0	323	2.45	4.7	1.0	5.0	29	0.1	0.1	0.3	60	0.49	0.087	19
24734	Soil		1.5	95.6	10.9	64	0.3	202.3	15.4	262	2.62	11.3	1.1	1.6	16	0.3	0.2	0.5	66	0.30	0.033	9
24735	Soil		2.2	72.7	10.6	67	0.2	248.9	22.9	432	2.67	7.6	<0.5	0.6	12	0.1	0.2	1.0	62	0.18	0.048	8
24736	Soil		6.1	57.6	7.1	56	0.5	101.8	12.9	278	2.61	7.1	3.2	1.1	11	0.1	0.1	0.5	77	0.15	0.048	7
24737	Soil		5.2	88.2	6.3	101	0.2	109.8	23.6	765	3.96	7.0	<0.5	1.8	13	0.3	<0.1	0.6	125	0.13	0.059	9
24738	Soil		11.3	82.9	9.1	74	0.1	206.0	30.9	870	3.21	8.3	1.0	1.3	16	0.3	0.2	0.9	89	0.26	0.068	10
24739	Soil		3.2	47.2	9.9	62	<0.1	92.0	15.5	308	3.18	5.9	<0.5	2.9	9	0.2	0.3	0.7	86	0.13	0.022	10
24740	Soil		3.2	69.8	11.2	54	0.2	288.6	23.2	325	2.81	11.9	1.1	2.3	24	0.1	0.3	0.8	80	0.28	0.035	9
24741	Soil		2.6	64.4	9.5	56	<0.1	167.5	21.8	457	2.86	6.2	3.3	1.9	15	0.3	0.2	6.5	72	0.19	0.028	8
24742	Soil		1.6	36.2	8.5	48	<0.1	401.5	32.4	472	3.25	27.4	<0.5	1.7	15	0.1	0.3	1.5	69	0.24	0.022	7
24501	Soil		2.1	29.9	8.7	99	0.4	42.3	8.0	424	2.07	10.4	<0.5	0.4	23	0.7	0.7	0.2	52	0.24	0.067	10
24502	Soil		0.9	32.5	7.3	54	0.2	338.7	30.9	600	3.23	11.0	0.9	0.6	23	0.4	1.0	0.1	68	0.27	0.073	9
24503	Soil		0.9	102.1	12.2	47	0.3	567.1	18.8	301	2.75	9.7	1.0	1.4	30	0.4	1.0	0.2	59	0.45	0.080	16



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Project: Jubilee  
Report Date: January 20, 2014

Page: 2 of 13

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

WHI13000577.1

Method	Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
			ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
24716	Soil		955	5.75	232	0.078	1	3.02	0.009	0.66	1.0	<0.01	4.8	3.4	<0.05	7	<0.5	0.2
24717	Soil		71	0.92	176	0.117	2	1.62	0.017	0.09	0.5	0.03	4.1	0.4	<0.05	7	<0.5	<0.2
24718	Soil		171	2.50	104	0.105	4	1.53	0.021	0.09	4.1	0.02	5.5	0.3	<0.05	5	<0.5	<0.2
24719	Soil		286	4.75	63	0.038	3	1.50	0.014	0.04	2.3	<0.01	4.4	0.2	<0.05	4	<0.5	<0.2
24720	Soil		166	7.84	100	0.037	16	0.95	0.015	0.05	4.3	0.03	6.5	0.2	<0.05	3	0.5	<0.2
24721	Soil		136	1.68	222	0.117	1	1.87	0.020	0.14	1.7	0.01	4.5	0.5	<0.05	6	<0.5	<0.2
24722	Soil		158	1.67	142	0.136	2	2.57	0.021	0.25	0.6	0.04	4.8	1.0	<0.05	8	<0.5	<0.2
24723	Soil		117	2.53	124	0.115	<1	2.76	0.011	0.07	0.9	0.01	3.7	0.4	<0.05	8	<0.5	<0.2
24724	Soil		110	1.39	200	0.133	<1	2.41	0.022	0.16	0.3	<0.01	4.9	0.4	<0.05	7	<0.5	<0.2
24725	Soil		136	1.43	144	0.112	<1	2.47	0.017	0.15	0.4	0.02	4.9	0.5	<0.05	7	<0.5	<0.2
24726	Soil		111	1.27	168	0.121	<1	2.08	0.022	0.13	0.5	0.01	4.2	0.3	<0.05	6	<0.5	<0.2
24727	Soil		100	1.14	131	0.119	<1	1.60	0.021	0.12	0.4	0.01	3.7	0.3	<0.05	6	<0.5	<0.2
24728	Soil		150	1.60	199	0.139	<1	2.09	0.024	0.23	0.4	<0.01	4.6	0.5	<0.05	6	<0.5	<0.2
24729	Soil		100	0.94	142	0.086	2	1.97	0.012	0.11	0.4	0.03	3.6	0.4	<0.05	6	<0.5	<0.2
24730	Soil		49	0.73	62	0.041	<1	1.31	0.017	0.09	2.2	0.03	2.6	0.3	<0.05	4	0.8	<0.2
24731	Soil		76	1.23	106	0.120	<1	2.75	0.013	0.46	0.8	0.04	7.8	0.9	<0.05	9	<0.5	<0.2
24732	Soil		62	0.99	197	0.102	2	1.97	0.018	0.16	0.2	0.02	4.2	0.3	<0.05	6	<0.5	<0.2
24733	Soil		74	1.24	192	0.157	<1	1.85	0.041	0.22	0.3	0.01	4.9	0.4	<0.05	5	<0.5	<0.2
24734	Soil		105	1.34	161	0.118	2	2.42	0.024	0.18	0.3	0.02	4.0	0.3	<0.05	7	<0.5	<0.2
24735	Soil		130	1.36	132	0.076	<1	2.01	0.017	0.09	0.8	0.02	3.8	0.5	<0.05	6	<0.5	<0.2
24736	Soil		64	0.90	221	0.130	<1	2.33	0.023	0.41	1.5	0.03	7.7	0.5	<0.05	8	0.8	<0.2
24737	Soil		108	1.43	289	0.214	1	3.58	0.017	0.78	1.3	0.02	13.9	0.9	<0.05	12	<0.5	<0.2
24738	Soil		132	1.51	207	0.136	2	2.82	0.019	0.22	0.7	0.04	5.8	0.8	<0.05	9	<0.5	<0.2
24739	Soil		96	1.10	110	0.201	<1	2.08	0.016	0.25	0.7	0.03	6.0	0.5	<0.05	9	<0.5	<0.2
24740	Soil		239	2.23	190	0.137	1	2.39	0.020	0.18	0.8	0.01	5.6	0.6	<0.05	7	<0.5	<0.2
24741	Soil		123	1.48	169	0.143	1	2.28	0.020	0.12	1.6	0.01	4.2	0.5	<0.05	7	<0.5	<0.2
24742	Soil		313	3.27	178	0.121	2	2.51	0.021	0.13	2.2	0.02	4.8	1.0	<0.05	7	0.6	<0.2
24501	Soil		48	0.52	758	0.045	2	1.53	0.008	0.11	0.1	0.05	2.8	0.2	<0.05	7	<0.5	<0.2
24502	Soil		185	2.46	291	0.050	3	2.19	0.011	0.10	0.3	0.03	4.4	<0.1	<0.05	6	<0.5	<0.2
24503	Soil		95	0.88	239	0.069	2	1.90	0.019	0.06	0.2	0.05	5.4	0.1	<0.05	6	0.8	<0.2

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**Project:** Jubilee  
**Report Date:** January 20, 2014

**Page:** 3 of 13

**Part:** 1 of 2

**CERTIFICATE OF ANALYSIS**

**WHI13000577.1**

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm		
24504	Soil			0.7	17.9	6.4	32	<0.1	259.6	22.3	339	2.55	7.6	<0.5	2.1	18	<0.1	0.5	0.1	51	0.25	0.013	8
24505	Soil			0.9	45.3	6.9	48	<0.1	350.1	23.4	267	2.95	9.9	3.9	2.2	14	0.1	0.5	0.2	75	0.18	0.018	8
24506	Soil			1.4	79.9	5.6	56	<0.1	186.2	23.2	287	3.05	8.8	1.1	1.9	13	<0.1	0.4	0.1	95	0.19	0.030	9
24507	Soil			1.4	74.0	7.7	59	0.4	141.3	22.8	299	2.95	7.7	2.3	2.1	20	0.3	0.4	0.2	96	0.30	0.029	8
24508	Soil			1.2	65.1	10.4	54	0.2	143.3	17.4	235	2.92	7.1	0.7	1.1	15	0.2	0.4	0.2	88	0.26	0.035	6
24509	Soil			1.8	57.9	12.2	50	0.2	92.1	14.5	224	2.80	7.3	2.0	0.8	17	0.3	0.4	0.2	78	0.20	0.053	8
24510	Soil			1.6	94.8	15.8	61	0.2	164.3	22.8	328	2.98	11.2	3.2	1.4	16	<0.1	0.5	0.2	96	0.22	0.043	6
24511	Soil			0.9	46.7	8.1	40	0.2	116.9	15.8	275	2.32	8.7	4.9	2.2	19	<0.1	0.6	0.1	64	0.25	0.022	8
24512	Soil			0.8	46.3	8.3	47	0.1	136.1	15.4	284	2.40	14.2	3.3	2.0	18	0.1	1.5	0.2	70	0.30	0.031	8
24513	Soil			1.1	37.9	5.5	47	0.1	87.6	13.4	318	2.87	4.7	15.6	0.6	25	<0.1	0.4	0.2	94	0.72	0.079	10
24514	Soil			0.5	38.4	7.1	52	<0.1	105.2	12.1	283	2.39	6.8	3.5	0.8	19	0.2	0.5	0.2	82	0.42	0.064	10
24515	Soil			0.4	46.5	7.2	62	0.1	142.9	17.6	417	2.94	7.2	1.8	1.2	34	0.8	0.5	0.2	80	1.19	0.119	11
24516	Soil			1.0	41.5	6.2	57	<0.1	135.0	17.5	360	2.84	7.8	2.8	1.2	16	0.5	0.6	0.2	81	0.23	0.031	8
24517	Soil			0.9	44.0	5.2	61	<0.1	163.9	16.1	301	2.74	7.2	7.3	1.4	21	0.2	0.7	0.2	77	0.34	0.032	7
24518	Soil			1.2	41.1	12.4	107	0.2	87.1	15.8	602	2.83	6.6	3.6	0.8	21	1.6	0.5	0.3	75	0.33	0.080	10
24519	Soil			1.9	63.4	11.5	172	0.5	47.0	10.5	632	2.85	4.0	1.5	0.2	15	1.2	0.6	0.4	85	0.26	0.100	9
24520	Soil			0.9	76.2	9.7	77	0.4	81.6	17.2	432	3.47	5.7	3.6	1.4	19	0.5	0.6	1.4	91	0.41	0.040	8
24521	Soil			2.0	262.4	74.9	288	1.6	142.7	21.9	914	4.08	11.8	2.4	2.6	24	1.0	0.7	6.3	86	0.52	0.061	16
24522	Soil			2.8	192.4	174.0	256	1.7	194.9	27.8	1080	3.74	33.4	3.6	2.2	28	1.0	0.7	4.5	81	0.52	0.062	19
24523	Soil			1.8	278.4	59.1	222	2.3	124.7	30.2	1275	5.35	8.9	2.4	1.7	53	0.8	0.5	3.6	136	0.78	0.069	10
24524	Soil			1.3	184.6	77.4	245	2.0	119.8	24.6	1013	3.99	9.9	4.2	1.7	56	1.2	0.7	5.0	91	0.64	0.064	11
24525	Soil			0.6	98.0	13.3	86	0.7	641.5	30.8	390	2.32	12.5	1.5	1.0	16	0.5	0.8	1.0	48	0.28	0.031	7
24671	Soil			5.0	196.2	7.4	57	0.3	77.5	15.0	294	4.57	7.7	2.0	1.4	61	0.2	0.3	2.9	93	0.20	0.113	11
24672	Soil			5.6	164.0	12.7	78	0.2	123.5	20.5	321	4.19	13.0	2.8	3.4	58	0.4	0.3	3.2	96	0.23	0.074	10
24673	Soil			6.0	109.3	12.2	78	0.2	126.7	20.7	393	3.78	12.9	3.0	1.7	33	0.3	0.3	2.9	104	0.21	0.063	11
24674	Soil			6.5	84.8	12.2	68	0.3	106.6	19.8	379	3.68	12.1	2.7	0.6	47	0.4	0.4	4.0	84	0.22	0.094	10
24675	Soil			2.7	72.6	10.8	98	0.2	201.2	26.8	526	4.66	9.2	0.5	2.4	54	0.3	0.2	1.5	138	0.50	0.065	10
24676	Soil			2.9	75.4	25.2	65	0.2	154.5	14.6	352	3.49	7.5	3.1	4.5	12	0.2	0.3	3.8	60	0.16	0.048	13
24677	Soil			10.6	616.4	32.5	75	2.4	78.3	11.9	350	7.70	20.6	7.5	0.7	45	<0.1	1.1	88.6	193	0.19	0.050	3
24678	Soil			0.8	33.4	10.6	50	<0.1	56.2	6.4	376	1.99	3.4	2.2	7.3	25	<0.1	0.1	1.1	44	0.13	0.022	16

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Project: Jubilee  
Report Date: January 20, 2014

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
24504	Soil			85	1.42	220	0.075	2	1.55	0.016	0.06	0.2	0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
24505	Soil			108	1.41	141	0.123	2	1.96	0.016	0.09	0.2	0.02	4.6	0.1	<0.05	7	<0.5	<0.2
24506	Soil			127	1.42	168	0.140	2	2.88	0.020	0.14	0.1	0.03	6.1	0.2	<0.05	8	0.5	<0.2
24507	Soil			119	1.31	232	0.147	1	2.93	0.027	0.12	0.2	0.03	6.3	0.2	<0.05	7	<0.5	<0.2
24508	Soil			106	1.26	136	0.121	2	2.20	0.024	0.15	0.2	0.03	4.6	0.2	<0.05	7	0.7	<0.2
24509	Soil			91	1.02	277	0.091	1	2.76	0.018	0.13	0.2	0.04	4.9	0.2	<0.05	7	1.0	<0.2
24510	Soil			136	1.65	182	0.131	<1	2.73	0.021	0.30	0.2	0.04	6.3	0.3	<0.05	8	<0.5	<0.2
24511	Soil			80	1.05	160	0.091	1	1.93	0.022	0.09	0.2	0.02	4.2	0.2	<0.05	5	<0.5	<0.2
24512	Soil			92	1.22	144	0.104	<1	1.88	0.020	0.14	0.2	0.02	5.5	0.2	<0.05	6	<0.5	<0.2
24513	Soil			102	1.20	177	0.103	<1	2.17	0.018	0.10	0.2	0.01	4.2	0.2	<0.05	9	<0.5	<0.2
24514	Soil			69	0.93	161	0.069	1	2.06	0.016	0.08	0.2	0.02	3.4	0.2	<0.05	6	<0.5	<0.2
24515	Soil			116	1.39	240	0.125	<1	2.66	0.064	0.12	0.1	0.02	5.1	0.2	<0.05	7	<0.5	<0.2
24516	Soil			111	1.16	205	0.110	1	2.28	0.017	0.11	0.2	0.02	4.8	0.2	<0.05	8	<0.5	<0.2
24517	Soil			156	1.52	167	0.137	<1	2.04	0.022	0.19	0.2	0.02	4.6	0.2	<0.05	8	0.5	<0.2
24518	Soil			87	1.08	185	0.104	<1	2.30	0.018	0.11	0.3	0.02	4.0	0.2	<0.05	8	<0.5	<0.2
24519	Soil			59	0.94	252	0.059	<1	2.49	0.010	0.26	0.3	0.02	2.9	0.3	0.07	8	<0.5	<0.2
24520	Soil			74	1.29	247	0.172	<1	3.08	0.030	0.29	0.6	0.04	5.6	0.6	<0.05	9	<0.5	<0.2
24521	Soil			115	1.60	174	0.197	<1	2.72	0.028	0.42	2.3	0.02	6.3	1.8	<0.05	9	<0.5	0.2
24522	Soil			104	1.40	150	0.128	<1	2.61	0.021	0.31	1.6	0.06	5.4	1.2	<0.05	8	0.7	<0.2
24523	Soil			120	1.93	238	0.197	1	4.25	0.022	0.92	1.4	0.05	10.7	3.0	<0.05	12	<0.5	0.2
24524	Soil			95	1.38	182	0.141	<1	3.26	0.028	0.53	1.3	0.05	8.8	1.5	<0.05	9	<0.5	<0.2
24525	Soil			361	2.01	66	0.065	<1	1.66	0.011	0.18	1.2	0.01	3.8	0.7	<0.05	5	<0.5	<0.2
24671	Soil			123	1.49	165	0.156	<1	3.84	0.021	0.50	2.0	0.07	6.0	1.0	0.17	10	1.2	0.7
24672	Soil			139	1.43	165	0.190	<1	3.20	0.019	0.45	2.4	0.06	7.4	1.1	0.12	9	0.9	0.5
24673	Soil			151	1.53	161	0.141	<1	3.34	0.018	0.39	1.1	0.06	6.2	1.1	0.09	10	0.8	0.3
24674	Soil			111	1.16	160	0.095	<1	2.88	0.017	0.27	1.6	0.05	3.6	1.0	0.15	8	<0.5	<0.2
24675	Soil			210	3.06	273	0.289	<1	4.90	0.038	0.89	0.8	0.02	11.4	2.0	<0.05	12	<0.5	<0.2
24676	Soil			92	1.35	79	0.136	<1	2.33	0.016	0.16	2.2	0.05	3.6	0.8	<0.05	7	<0.5	<0.2
24677	Soil			280	3.27	121	0.246	<1	3.39	0.022	1.39	0.4	<0.01	20.3	5.1	0.56	15	3.2	10.8
24678	Soil			35	0.67	174	0.105	<1	1.49	0.011	0.19	0.7	<0.01	4.1	0.4	<0.05	5	<0.5	<0.2

**CERTIFICATE OF ANALYSIS**

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	0.1	0.1	2	0.01	0.001	1		
24679	Soil			0.8	45.0	12.6	48	<0.1	38.1	7.7	356	1.88	2.1	<0.5	2.4	14	0.1	0.2	0.9	46	0.08	0.032	11
24680	Soil			1.1	58.7	9.9	58	0.1	40.8	10.6	408	2.32	4.9	3.6	4.8	18	0.3	0.3	0.7	57	0.16	0.034	15
24681	Soil			0.8	41.6	11.4	79	0.1	155.6	9.4	339	2.19	3.6	3.3	3.7	10	0.6	0.2	0.7	52	0.11	0.034	14
24682	Soil			1.2	81.0	8.8	75	0.1	87.8	13.9	280	2.57	5.4	1.7	6.0	12	0.2	0.1	0.5	78	0.11	0.017	12
24683	Soil			0.8	92.6	7.0	56	<0.1	314.2	25.5	358	2.94	4.7	3.0	2.1	16	0.2	0.2	0.4	78	0.16	0.021	7
24684	Soil			0.9	110.2	14.7	89	<0.1	363.6	29.7	403	2.88	5.5	1.6	1.3	11	0.2	0.2	0.6	66	0.18	0.028	4
24685	Soil			1.3	108.0	8.8	89	0.2	137.1	19.8	292	2.83	8.4	1.6	2.3	16	0.2	0.1	1.1	88	0.15	0.022	7
24686	Soil			1.2	74.1	10.5	64	0.1	147.2	15.8	344	2.44	6.6	2.1	2.1	15	0.2	0.2	1.2	77	0.14	0.023	7
24687	Soil			1.2	83.6	8.5	48	0.1	75.3	10.0	192	1.91	5.9	2.2	4.1	18	0.2	0.2	1.2	59	0.22	0.028	10
24688	Soil			17.6	148.1	6.0	54	<0.1	753.5	59.3	440	3.71	54.8	2.2	0.8	56	0.1	0.8	7.1	84	0.34	0.043	4
24689	Soil			2.7	88.7	9.7	42	0.1	78.5	10.4	239	2.73	5.3	1.9	2.0	23	0.1	0.2	1.4	64	0.09	0.042	10
24690	Soil			9.7	629.4	12.7	84	0.3	310.2	25.5	409	7.83	20.8	3.1	4.0	102	0.2	0.4	9.9	151	0.30	0.119	11
24691	Soil			1.4	426.6	14.6	12	3.0	11.2	2.3	162	15.65	11.1	273.4	0.7	9	<0.1	0.3	84.6	19	0.45	0.104	2
24692	Soil			7.6	317.4	4.2	93	0.2	149.8	30.6	562	9.42	11.4	2.5	2.3	168	0.1	0.2	12.3	155	0.37	0.099	7
24693	Soil			3.1	124.7	4.8	57	0.1	154.9	26.8	333	3.49	9.7	1.4	2.2	130	0.1	0.3	2.9	87	0.37	0.058	8
24694	Soil			8.6	264.4	6.8	71	0.1	253.0	45.0	455	6.52	29.5	1.3	2.5	269	0.3	0.3	4.0	158	0.66	0.141	9
24695	Soil			85.8	128.3	7.3	51	0.2	98.9	20.4	435	3.60	5.4	6.5	2.4	24	<0.1	0.3	16.4	91	0.42	0.068	18
44126	Soil			1.4	79.2	33.4	107	0.4	117.0	19.3	582	3.06	17.9	1.5	3.6	24	0.8	0.5	0.8	77	0.43	0.049	14
44127	Soil			3.1	39.3	5.7	48	<0.1	441.5	36.1	368	2.72	11.3	6.4	1.3	11	<0.1	0.3	1.1	77	0.24	0.022	4
44128	Soil			4.6	54.9	13.2	52	0.1	223.6	25.6	343	3.00	9.5	2.9	1.8	14	0.1	0.3	2.3	89	0.26	0.030	6
44129	Soil			3.6	83.5	11.1	68	0.1	517.3	35.0	310	3.41	30.0	0.9	0.6	14	0.2	0.3	1.0	100	0.36	0.031	3
44130	Soil			0.6	91.5	10.3	62	<0.1	303.8	27.9	320	2.72	5.3	2.0	1.8	15	0.2	0.3	0.6	64	0.27	0.023	7
44131	Soil			2.0	76.3	10.2	77	0.1	215.0	20.4	295	2.85	6.0	<0.5	1.5	15	0.3	0.3	0.8	78	0.26	0.035	6
44132	Soil			1.1	109.2	9.3	78	0.1	404.0	30.4	359	2.81	9.7	13.0	1.6	17	0.2	0.4	0.9	70	0.27	0.033	8
44133	Soil			0.9	116.4	8.7	81	0.1	435.4	33.7	438	3.23	6.0	3.5	1.2	19	0.2	0.3	0.7	90	0.35	0.069	7
44134	Soil			0.6	113.7	8.5	69	0.2	434.7	28.3	375	3.12	6.0	4.9	3.3	22	0.2	0.2	0.6	75	0.61	0.062	10
44135	Soil			0.8	112.1	8.8	70	0.1	339.6	23.0	328	2.96	7.1	3.8	2.3	23	0.2	0.2	0.7	90	0.45	0.041	7
44136	Soil			0.4	130.8	6.7	100	<0.1	409.8	42.7	605	4.75	2.0	2.7	0.8	37	0.2	0.1	0.6	136	0.37	0.048	3
44137	Soil			0.6	112.7	11.7	134	0.2	285.0	28.7	509	3.71	5.1	2.6	2.9	26	0.5	0.2	1.0	87	0.53	0.096	14
44138	Soil			0.6	171.8	8.1	137	0.3	311.3	29.5	507	3.40	5.2	3.6	2.6	68	0.6	0.2	1.1	86	0.53	0.059	9

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**Project:** Jubilee  
**Report Date:** January 20, 2014

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**CERTIFICATE OF ANALYSIS**

**WHI13000577.1**

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
24679	Soil			37	0.57	141	0.092	<1	1.61	0.006	0.18	0.4	0.03	3.3	0.3	<0.05	6	<0.5	<0.2
24680	Soil			41	0.70	150	0.115	<1	1.89	0.013	0.18	0.6	0.01	4.8	0.4	<0.05	6	<0.5	<0.2
24681	Soil			36	0.63	118	0.104	<1	1.78	0.011	0.17	0.3	0.02	4.4	0.3	<0.05	5	<0.5	<0.2
24682	Soil			78	1.14	145	0.183	<1	2.12	0.018	0.35	0.4	<0.01	6.2	0.6	<0.05	7	<0.5	<0.2
24683	Soil			118	2.02	208	0.141	<1	2.39	0.015	0.19	0.3	0.02	6.6	0.4	<0.05	7	<0.5	<0.2
24684	Soil			120	2.31	131	0.101	<1	1.87	0.016	0.09	0.8	0.02	4.2	0.3	<0.05	6	<0.5	<0.2
24685	Soil			107	1.33	164	0.156	<1	2.32	0.020	0.31	1.5	0.01	6.3	0.7	<0.05	7	<0.5	<0.2
24686	Soil			85	1.28	126	0.124	<1	2.13	0.015	0.32	0.4	0.01	6.2	0.5	<0.05	6	<0.5	<0.2
24687	Soil			70	0.64	113	0.113	<1	1.27	0.017	0.29	0.9	<0.01	4.1	0.5	<0.05	4	<0.5	<0.2
24688	Soil			660	4.92	102	0.109	<1	3.13	0.015	0.87	0.4	<0.01	5.7	2.5	<0.05	6	0.5	0.6
24689	Soil			70	0.85	156	0.093	<1	1.67	0.014	0.21	0.7	0.05	2.4	0.7	0.14	7	0.7	0.3
24690	Soil			309	3.00	228	0.257	<1	5.93	0.017	1.31	2.2	0.02	13.6	3.1	0.11	11	2.9	3.0
24691	Soil			18	0.16	21	0.099	2	0.33	0.013	0.08	8.0	0.06	1.0	0.3	2.59	3	5.9	16.3
24692	Soil			289	3.27	262	0.309	2	5.46	0.033	1.36	1.5	0.01	13.1	2.4	0.37	16	2.6	5.3
24693	Soil			131	1.85	185	0.183	1	3.16	0.026	0.54	1.5	0.03	7.1	1.5	<0.05	8	1.4	0.7
24694	Soil			264	3.78	234	0.284	<1	6.50	0.028	1.47	2.2	0.02	12.3	3.3	0.11	16	2.2	0.9
24695	Soil			78	1.58	181	0.249	3	2.69	0.027	0.49	10.1	0.02	5.7	1.3	0.07	10	1.2	0.3
44126	Soil			98	1.21	151	0.151	<1	2.51	0.021	0.20	0.9	0.03	4.8	0.5	<0.05	9	0.6	<0.2
44127	Soil			359	4.62	109	0.121	5	2.65	0.028	0.34	3.7	0.01	5.2	1.1	<0.05	7	0.8	<0.2
44128	Soil			159	1.81	172	0.176	2	2.13	0.022	0.17	3.9	0.02	5.0	0.5	<0.05	7	0.5	<0.2
44129	Soil			386	4.38	116	0.115	<1	2.94	0.023	0.58	8.0	0.02	6.5	1.7	<0.05	9	0.7	<0.2
44130	Soil			113	1.79	200	0.114	3	2.02	0.024	0.14	0.7	<0.01	4.0	0.4	<0.05	6	0.8	<0.2
44131	Soil			126	1.53	180	0.162	2	1.82	0.023	0.19	2.0	0.05	4.3	0.4	<0.05	7	0.5	<0.2
44132	Soil			140	1.93	183	0.118	2	1.86	0.021	0.14	1.3	0.01	4.2	0.4	<0.05	6	0.6	<0.2
44133	Soil			155	2.29	358	0.131	3	2.62	0.026	0.24	0.9	0.03	5.3	0.6	<0.05	7	0.5	<0.2
44134	Soil			161	2.16	305	0.142	1	2.12	0.035	0.29	0.8	0.03	6.3	0.6	<0.05	6	0.7	<0.2
44135	Soil			166	2.02	316	0.167	<1	2.88	0.022	0.47	0.9	0.01	6.3	0.9	<0.05	8	1.3	<0.2
44136	Soil			181	3.90	877	0.250	2	4.17	0.040	1.16	0.4	0.04	8.0	2.2	<0.05	10	<0.5	<0.2
44137	Soil			108	2.04	227	0.221	1	3.49	0.064	0.27	0.6	0.02	6.3	0.5	<0.05	9	0.5	<0.2
44138	Soil			126	2.23	262	0.160	2	2.60	0.047	0.33	3.0	0.02	6.1	0.8	<0.05	7	<0.5	<0.2

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**Project:** Jubilee  
**Report Date:** January 20, 2014

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# CERTIFICATE OF ANALYSIS

WHI13000577.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1		
44139	Soil			0.6	111.8	11.5	129	0.2	232.8	25.4	341	2.98	5.1	1.5	2.0	21	0.7	0.3	0.5	90	0.39	0.081	8
44140	Soil			0.7	99.8	8.8	85	0.1	264.4	29.8	319	3.43	3.3	16.4	2.0	14	0.2	0.2	0.8	100	0.25	0.027	8
44141	Soil			0.8	124.2	12.7	98	0.2	454.7	40.4	442	3.69	11.5	3.9	2.3	24	0.4	0.2	1.0	91	0.50	0.070	8
44142	Soil			1.6	233.1	38.3	89	0.8	265.0	33.4	318	4.02	4.9	4.7	1.8	26	0.3	0.2	5.3	78	0.31	0.036	6
44143	Soil			1.4	92.3	13.5	61	0.1	249.6	28.5	304	3.10	6.5	5.4	1.9	16	0.5	0.3	0.9	75	0.26	0.035	6
44144	Soil			0.8	95.7	7.8	70	0.1	663.0	50.8	429	3.02	9.9	3.8	2.2	15	0.2	0.3	0.8	73	0.19	0.018	5
44145	Soil			3.3	87.4	12.8	60	0.2	169.4	18.3	358	3.03	6.3	1.9	2.4	11	0.2	0.2	1.4	86	0.16	0.028	8
44146	Soil			9.0	169.2	12.4	58	0.3	257.6	30.6	378	3.63	6.6	3.4	1.0	16	0.2	0.3	2.4	77	0.24	0.081	6
22498	Soil			0.3	199.9	4.4	48	0.2	225.7	36.8	247	3.88	2.8	1.3	0.4	15	0.2	0.1	<0.1	112	0.46	0.021	2
22499	Soil			2.0	71.0	9.5	100	0.3	39.9	8.9	191	2.19	12.4	3.1	2.4	35	0.2	0.5	0.2	75	0.12	0.022	10
22500	Soil			2.2	68.2	7.2	129	0.3	131.3	20.4	254	2.76	10.0	3.6	1.9	26	0.9	0.7	0.1	57	0.18	0.051	15
24263	Soil			1.8	132.0	9.9	75	0.4	209.1	37.8	1094	3.88	36.0	6.6	0.7	37	0.5	1.3	0.7	117	1.08	0.155	9
24264	Soil			0.8	80.1	8.9	59	0.1	244.1	31.2	743	3.64	19.7	16.5	2.4	30	0.2	1.2	0.3	101	0.49	0.090	9
24273	Soil			1.4	138.5	10.8	75	0.2	69.0	19.8	527	3.05	5.4	3.6	2.2	52	0.5	0.5	1.4	80	1.13	0.079	9
24274	Soil			1.2	94.5	35.2	105	0.2	72.6	19.7	511	2.90	10.4	1.7	2.7	37	0.6	0.5	0.8	84	0.65	0.055	12
24275	Soil			1.4	108.3	16.8	91	0.2	85.1	19.6	434	3.17	7.3	4.0	1.8	23	0.5	0.4	1.0	87	0.42	0.064	6
24276	Soil			1.3	121.3	28.0	78	0.3	101.2	21.4	546	3.03	7.7	4.9	3.0	49	0.3	0.6	0.9	86	1.02	0.053	11
24277	Soil			1.5	139.9	25.3	69	0.4	94.3	19.4	454	2.98	8.9	3.8	2.2	38	0.3	0.7	0.8	85	1.27	0.043	10
24278	Soil			1.0	143.5	19.2	76	0.2	92.3	22.9	479	3.09	15.6	3.2	1.5	53	0.4	0.6	1.1	77	1.23	0.042	7
24279	Soil			75.3	1074.6	961.1	696	12.5	468.5	24.1	3533	5.98	1117.9	5.4	5.7	19	5.8	9.4	23.9	78	0.34	0.042	14
24280	Soil			0.4	113.2	66.1	217	6.2	2198.9	94.4	5914	3.13	397.5	11.1	0.3	9	1.6	225.0	1.5	60	0.29	0.017	2
24526	Soil			1.6	135.9	44.0	205	0.8	108.9	18.2	748	3.48	19.9	5.5	4.2	27	0.8	0.3	2.4	84	0.47	0.063	16
24527	Soil			2.6	133.2	46.1	191	0.6	97.1	14.0	536	3.17	26.5	4.7	2.1	14	0.6	0.7	1.8	75	0.22	0.070	27
24528	Soil			2.1	397.8	284.2	356	0.9	73.7	12.5	1086	3.04	20.2	2.1	7.6	16	1.3	0.7	3.2	95	0.26	0.053	23
24529	Soil			1.0	95.1	17.7	118	0.6	68.5	12.0	386	2.49	10.9	4.1	1.4	20	0.4	0.5	1.4	64	0.28	0.067	13
24530	Soil			0.5	129.9	30.2	196	0.8	81.4	17.9	729	3.53	26.5	2.3	1.3	23	0.6	0.7	1.0	78	0.52	0.090	13
24531	Soil			0.5	56.9	16.0	294	0.4	116.7	12.4	455	2.58	6.7	2.7	1.1	41	4.7	0.4	1.1	62	1.97	0.095	13
43255	Soil			1.7	100.8	9.6	42	0.1	125.4	16.6	190	2.65	5.2	6.5	0.1	15	0.1	0.2	1.4	67	0.17	0.063	6
43256	Soil			2.6	435.2	8.4	55	<0.1	168.2	52.1	350	3.02	6.6	1.5	2.3	48	<0.1	0.3	0.7	76	0.19	0.059	10
43257	Soil			5.6	78.9	8.5	47	0.1	104.9	15.4	295	2.94	5.6	2.4	1.2	18	0.2	0.3	4.6	74	0.19	0.069	12

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Project: Jubilee  
Report Date: January 20, 2014

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
44139	Soil			122	1.72	284	0.188	<1	2.41	0.028	0.28	0.2	0.02	4.9	0.6	<0.05	7	<0.5	<0.2
44140	Soil			140	2.04	279	0.228	3	2.89	0.029	0.34	0.4	0.02	5.2	0.5	<0.05	8	0.7	<0.2
44141	Soil			171	2.36	259	0.200	2	2.53	0.047	0.46	0.7	0.01	6.4	0.8	<0.05	7	<0.5	<0.2
44142	Soil			129	2.08	171	0.146	<1	2.14	0.034	0.29	9.3	0.01	4.7	0.8	0.07	6	0.8	0.4
44143	Soil			117	1.66	147	0.127	2	2.04	0.023	0.15	1.4	0.04	4.6	0.3	<0.05	6	<0.5	<0.2
44144	Soil			335	3.50	168	0.119	2	2.29	0.021	0.27	1.1	<0.01	6.0	0.9	<0.05	6	<0.5	<0.2
44145	Soil			123	1.36	116	0.166	2	2.24	0.018	0.19	2.8	0.03	5.5	0.5	<0.05	8	<0.5	<0.2
44146	Soil			142	1.43	104	0.118	<1	2.24	0.017	0.20	5.8	0.03	4.0	0.7	0.07	7	1.2	0.4
22498	Soil			114	3.37	337	0.198	<1	4.44	0.119	0.36	0.1	0.03	4.7	0.3	<0.05	10	<0.5	<0.2
22499	Soil			48	1.14	1039	0.115	<1	2.09	0.014	0.10	0.3	0.02	7.7	0.2	<0.05	9	1.2	<0.2
22500	Soil			135	0.92	431	0.135	2	2.50	0.015	0.14	0.2	0.03	5.2	0.2	<0.05	8	1.0	<0.2
24263	Soil			267	2.38	139	0.063	3	2.89	0.015	0.10	0.4	0.07	7.4	0.2	0.10	9	0.9	<0.2
24264	Soil			286	2.53	182	0.141	1	2.86	0.030	0.09	0.2	0.02	8.0	0.2	<0.05	8	<0.5	<0.2
24273	Soil			86	1.07	269	0.190	2	2.53	0.041	0.27	1.2	0.03	4.8	0.5	<0.05	8	<0.5	0.3
24274	Soil			74	1.07	167	0.170	3	2.28	0.034	0.15	1.0	0.03	5.6	0.6	<0.05	7	<0.5	<0.2
24275	Soil			92	1.08	206	0.201	1	2.41	0.030	0.19	0.8	0.03	4.9	0.4	<0.05	8	<0.5	<0.2
24276	Soil			97	1.23	274	0.193	4	2.53	0.047	0.30	0.8	0.02	6.3	0.7	<0.05	7	<0.5	<0.2
24277	Soil			87	1.12	223	0.189	3	2.32	0.050	0.23	0.5	0.03	6.3	0.6	0.08	7	<0.5	<0.2
24278	Soil			86	1.19	235	0.149	2	2.28	0.049	0.28	0.5	0.03	5.6	0.7	0.06	7	<0.5	<0.2
24279	Soil			263	2.36	95	0.094	1	2.76	0.016	1.16	4.2	0.02	6.0	7.5	<0.05	14	<0.5	1.1
24280	Soil			410	4.22	32	0.015	<1	1.53	0.008	0.91	3.9	0.02	12.8	7.7	<0.05	11	<0.5	<0.2
24526	Soil			103	1.35	182	0.186	1	2.54	0.021	0.50	1.4	0.03	7.3	1.2	<0.05	9	<0.5	0.2
24527	Soil			91	1.06	136	0.110	1	2.46	0.017	0.18	1.2	0.02	4.6	0.5	0.05	8	<0.5	<0.2
24528	Soil			79	1.00	129	0.118	<1	2.24	0.014	0.35	3.2	0.02	5.3	1.2	<0.05	7	<0.5	0.3
24529	Soil			67	0.84	120	0.103	<1	2.12	0.023	0.14	0.6	0.03	3.8	0.5	<0.05	7	<0.5	<0.2
24530	Soil			73	1.40	173	0.166	1	3.29	0.016	0.30	0.5	0.02	5.6	1.0	<0.05	10	<0.5	<0.2
24531	Soil			59	1.02	173	0.125	4	1.91	0.033	0.15	0.4	0.04	3.9	0.3	0.10	7	0.7	<0.2
43255	Soil			91	0.87	119	0.051	<1	1.93	0.014	0.11	2.8	0.04	2.0	0.4	0.08	6	<0.5	<0.2
43256	Soil			75	1.02	230	0.142	2	2.91	0.022	0.26	2.7	0.02	6.5	0.8	0.15	6	0.9	<0.2
43257	Soil			67	1.18	132	0.169	2	2.54	0.019	0.29	3.6	0.05	3.8	0.9	0.08	7	0.5	<0.2

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Method	1DX15	1DX16	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
25488	Soil	56.4	245.0	8.6	46	0.2	44.9	12.1	328	8.33	23.8	4.7	3.4	147	0.3	0.9	6.5	60	0.19	0.148	27
25490	Soil	0.4	18.3	6.5	3052	0.2	5.2	25.3	>10000	8.96	15.9	217.1	0.6	73	31.6	1.0	55.0	12	4.37	0.023	2
25491	Soil	30.3	1065.0	15.1	>10000	7.8	8.3	129.1	1811	15.94	404.2	495.4	0.6	14	215.7	2.0	315.3	6	0.41	0.137	5
31900	Soil	1.0	93.0	48.2	299	0.4	113.8	14.7	472	3.26	11.6	2.3	2.2	16	0.9	0.6	1.5	81	0.35	0.082	20
31978	Soil	0.8	83.8	8.4	98	0.2	267.9	30.1	392	2.82	15.5	3.3	2.6	46	0.9	0.5	1.4	72	0.46	0.056	8
31979	Soil	1.0	70.4	8.7	54	0.1	279.2	26.2	344	2.91	18.4	2.7	2.9	34	<0.1	0.4	0.8	79	0.32	0.030	8
31980	Soil	1.4	109.3	9.0	62	0.2	320.6	29.8	452	2.88	14.4	15.8	1.8	52	0.3	0.5	1.2	74	0.57	0.069	8
31981	Soil	0.8	93.7	5.6	49	<0.1	327.0	30.6	289	2.75	14.5	11.6	2.6	52	<0.1	0.4	1.5	67	0.40	0.052	7
31982	Soil	0.9	114.3	8.5	74	0.1	548.3	39.4	377	3.23	18.8	5.7	2.7	19	0.1	0.4	1.1	80	0.30	0.030	9
31983	Soil	1.1	125.6	10.3	53	0.1	300.6	31.5	324	3.10	20.5	6.3	2.1	22	0.1	0.4	1.1	78	0.34	0.028	7
31984	Soil	0.7	111.5	5.7	50	<0.1	291.9	33.2	342	3.08	33.9	26.0	2.4	13	<0.1	0.5	4.0	72	0.26	0.029	8
31985	Soil	1.1	137.5	5.2	57	<0.1	412.8	48.8	452	4.09	31.8	7.3	1.2	18	<0.1	0.3	5.2	120	0.24	0.044	5
R2-S0-001	Soil	0.6	24.8	11.7	79	0.1	38.1	6.5	293	1.41	6.5	4.2	1.4	64	1.0	0.7	0.1	36	14.58	0.084	14
R2-S0-002	Soil	0.7	20.4	15.2	45	0.1	30.2	7.0	278	1.63	6.0	15.3	2.5	54	0.4	0.6	<0.1	39	5.61	0.075	13
R2-S0-003	Soil	0.6	18.1	8.8	66	<0.1	34.2	8.0	370	2.10	6.5	4.2	0.8	33	1.9	0.7	0.1	64	2.77	0.077	22
R2-S0-004	Soil	0.6	18.0	6.5	36	0.1	27.7	6.8	248	1.73	6.1	3.3	2.6	27	0.4	0.5	<0.1	44	1.44	0.055	16
R2-S0-005	Soil	0.6	38.7	5.3	32	<0.1	306.4	10.2	190	1.37	7.7	2.5	1.0	20	<0.1	0.8	<0.1	32	0.36	0.019	8
R2-S0-006	Soil	0.8	15.1	8.7	32	<0.1	43.1	10.4	251	1.58	5.0	2.3	1.0	14	0.3	0.4	0.1	46	0.22	0.031	8
R2-S0-007	Soil	0.7	22.5	11.5	65	0.1	30.0	6.9	270	1.71	8.6	2.6	3.5	67	1.1	1.0	0.1	41	14.66	0.050	13
R2-S0-008	Soil	0.7	15.6	6.9	35	<0.1	23.5	6.1	245	1.36	5.1	3.0	2.7	55	0.3	0.5	<0.1	37	7.30	0.066	11
R2-S0-009	Soil	0.4	11.4	4.9	31	<0.1	17.1	5.1	188	1.41	5.8	4.8	3.8	45	0.3	0.4	<0.1	38	5.74	0.065	13
R2-S0-010	Soil	0.4	13.0	5.7	46	<0.1	21.1	5.7	222	1.74	5.6	3.1	3.2	37	0.7	0.6	<0.1	39	5.38	0.070	15
R2-S0-011	Soil	0.5	16.1	5.6	33	<0.1	21.4	5.9	253	1.58	6.5	3.1	3.3	46	0.3	0.5	<0.1	36	5.39	0.078	13
R2-S0-012	Soil	0.5	12.2	6.6	35	0.1	19.8	6.2	272	1.68	6.3	2.1	1.2	28	0.4	0.5	0.2	38	2.34	0.064	14
R2-S0-013	Soil	0.5	8.4	5.0	26	<0.1	14.7	4.8	183	1.86	4.8	5.1	6.4	30	0.4	0.4	<0.1	43	3.81	0.081	17
R2-S0-014	Soil	0.5	10.9	9.1	33	0.1	20.8	6.8	259	1.65	7.0	3.6	1.7	34	0.5	0.6	0.1	40	3.02	0.037	15
24380	Soil	1.2	112.7	79.0	246	1.0	71.0	20.2	656	3.61	6.7	2.3	1.9	30	1.2	0.4	1.3	105	0.45	0.049	9
24381	Soil	1.5	215.7	99.2	312	0.7	130.6	26.6	1211	4.06	9.9	3.1	2.0	68	1.4	0.5	2.8	99	0.61	0.070	9
24382	Soil	1.6	129.2	115.6	368	1.7	112.1	24.9	1297	3.75	11.1	6.0	1.7	58	1.2	0.6	2.5	86	0.50	0.067	8
24383	Soil	2.4	357.6	208.2	555	2.7	150.3	36.5	2082	5.01	10.5	1.6	0.7	39	3.2	0.6	2.9	132	0.65	0.157	13



**CERTIFICATE OF ANALYSIS**

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Method	Analyte	Unit	1DX15	1DX16	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
			ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
25488	Soil		107	0.85	116	0.130	2	3.41	0.019	0.54	7.1	0.11	2.4	1.4	0.44	10	2.1	0.3
25490	Soil		5	1.56	28	0.018	2	0.33	0.012	0.04	3.8	0.02	0.7	<0.1	<0.05	2	<0.5	1.5
25491	Soil		3	0.44	14	0.066	<1	0.29	0.004	0.03	15.1	1.27	0.7	0.3	1.12	2	54.7	8.1
31900	Soil		97	1.27	170	0.142	1	3.01	0.016	0.18	0.7	0.04	5.1	0.3	<0.05	9	<0.5	<0.2
31978	Soil		257	1.89	227	0.122	2	2.38	0.023	0.18	0.4	0.02	4.3	0.4	<0.05	7	0.6	<0.2
31979	Soil		304	2.20	199	0.149	2	2.37	0.023	0.19	0.4	<0.01	4.6	0.4	<0.05	7	0.6	<0.2
31980	Soil		244	1.91	217	0.095	2	2.55	0.028	0.20	0.4	0.03	4.6	0.5	0.07	7	<0.5	<0.2
31981	Soil		407	2.43	245	0.096	2	2.16	0.028	0.21	0.5	0.01	3.6	0.5	<0.05	6	<0.5	<0.2
31982	Soil		429	2.82	202	0.119	2	2.60	0.022	0.29	0.3	0.01	4.6	0.9	<0.05	7	<0.5	<0.2
31983	Soil		238	2.01	196	0.134	2	2.55	0.034	0.32	0.6	0.03	4.3	0.8	<0.05	7	0.6	<0.2
31984	Soil		216	2.32	152	0.123	2	2.31	0.022	0.22	0.8	<0.01	4.8	0.8	<0.05	7	0.6	<0.2
31985	Soil		390	3.46	257	0.215	1	3.49	0.028	0.78	0.8	0.01	7.3	2.0	0.06	11	<0.5	<0.2
R2-S0-001	Soil		38	0.54	167	0.043	4	1.17	0.016	0.08	0.2	0.12	2.6	0.1	<0.05	3	<0.5	<0.2
R2-S0-002	Soil		39	0.86	180	0.064	3	0.92	0.025	0.09	0.2	0.07	3.1	<0.1	<0.05	3	<0.5	<0.2
R2-S0-003	Soil		58	0.53	191	0.042	4	1.66	0.018	0.07	0.2	0.02	2.6	<0.1	0.06	5	0.8	<0.2
R2-S0-004	Soil		42	0.59	202	0.066	3	1.17	0.025	0.05	0.2	0.05	3.6	<0.1	<0.05	4	<0.5	<0.2
R2-S0-005	Soil		55	0.52	135	0.048	1	0.93	0.020	0.04	0.2	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
R2-S0-006	Soil		41	0.44	173	0.069	2	1.18	0.014	0.04	0.2	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
R2-S0-007	Soil		31	1.12	182	0.069	3	1.07	0.008	0.08	0.2	0.07	3.5	<0.1	<0.05	3	<0.5	<0.2
R2-S0-008	Soil		30	0.78	147	0.068	2	0.78	0.018	0.07	0.1	0.03	2.8	<0.1	<0.05	2	<0.5	<0.2
R2-S0-009	Soil		26	1.01	109	0.051	2	0.64	0.018	0.05	0.2	0.02	2.2	<0.1	<0.05	2	<0.5	<0.2
R2-S0-010	Soil		28	1.05	119	0.053	3	0.83	0.012	0.05	0.2	0.02	2.3	<0.1	<0.05	2	<0.5	<0.2
R2-S0-011	Soil		27	0.89	135	0.049	2	0.70	0.018	0.06	0.4	0.02	2.5	<0.1	<0.05	2	<0.5	<0.2
R2-S0-012	Soil		31	0.89	145	0.044	3	0.88	0.019	0.06	0.2	0.05	2.3	<0.1	0.05	3	<0.5	<0.2
R2-S0-013	Soil		23	1.88	59	0.038	3	0.52	0.016	0.03	0.5	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
R2-S0-014	Soil		30	0.73	119	0.045	3	0.82	0.019	0.05	0.2	0.06	2.5	<0.1	0.06	3	0.5	<0.2
24380	Soil		108	1.27	297	0.210	2	2.64	0.024	0.36	0.9	0.04	6.2	1.8	<0.05	9	<0.5	<0.2
24381	Soil		111	1.52	251	0.210	3	3.08	0.038	0.47	1.3	0.03	7.2	2.3	<0.05	9	<0.5	0.2
24382	Soil		102	1.47	233	0.165	3	2.98	0.026	0.54	1.1	0.08	6.0	2.0	<0.05	9	<0.5	<0.2
24383	Soil		175	2.04	232	0.096	2	4.98	0.020	0.35	0.6	0.08	7.1	2.0	0.11	13	0.8	0.2



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Project: Jubilee  
 Report Date: January 20, 2014

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
24384	Soil			2.8	735.7	169.4	465	5.3	148.4	30.9	1623	5.40	9.3	5.2	1.7	50	2.1	0.6	4.0	170	0.60	0.123	10
24385	Soil			1.4	149.2	50.4	150	0.7	98.5	21.9	751	3.47	10.3	2.0	1.1	42	0.8	0.5	1.7	114	0.51	0.074	10
24386	Soil			1.2	130.2	21.1	113	0.5	71.1	21.0	692	3.39	7.8	3.8	1.1	90	0.7	0.4	1.5	90	0.42	0.086	10
24387	Soil			0.9	98.3	20.0	115	0.3	71.4	23.7	839	3.75	6.8	1.3	0.9	154	0.7	0.4	1.5	96	0.55	0.070	6
24388	Soil			0.7	92.3	14.2	132	0.3	202.7	30.8	706	4.13	5.2	1.5	2.2	155	0.8	0.2	0.9	98	0.81	0.130	14
24389	Soil			0.8	109.1	17.0	160	0.6	48.1	26.6	1153	4.24	4.0	5.3	1.0	406	1.1	0.3	2.0	82	1.12	0.070	5
24390	Soil			0.4	262.8	10.2	94	0.6	66.2	32.1	888	3.73	0.8	1.5	0.6	331	0.4	0.2	1.2	73	0.81	0.067	4
24391	Soil			0.7	114.0	24.0	161	0.5	140.9	37.0	1756	4.05	3.7	1.1	2.5	195	0.8	0.4	1.6	66	0.81	0.085	9
24392	Soil			2.7	89.9	22.4	88	0.2	92.2	26.6	959	4.60	13.7	2.5	2.0	18	0.3	0.4	0.8	180	0.31	0.063	7
24393	Soil			0.9	94.4	15.6	74	0.6	84.4	13.7	231	2.15	4.7	3.1	2.0	29	0.4	0.4	0.5	71	0.31	0.075	10
24394	Soil			1.0	86.3	26.7	143	0.3	147.4	16.3	335	2.55	12.7	1.4	3.6	17	0.6	0.5	0.8	67	0.33	0.072	11
24410	Soil			0.2	11.7	7.0	151	0.1	14.4	6.3	1128	2.46	2.9	1.1	0.9	101	2.7	0.1	0.3	48	9.78	0.271	18
24411	Soil			0.2	8.9	7.0	81	<0.1	21.8	6.4	1934	1.63	1.6	<0.5	0.4	188	1.8	0.1	<0.1	23	9.25	0.159	9
24412	Soil			0.6	29.4	10.7	69	0.1	105.3	12.0	345	2.84	6.5	2.0	0.6	21	0.5	0.3	0.3	65	0.54	0.094	15
24413	Soil			1.3	30.7	10.1	80	0.2	78.5	13.4	844	2.62	5.7	<0.5	<0.1	19	1.5	0.5	0.3	65	0.48	0.154	8
24414	Soil			1.3	63.9	10.6	70	0.1	245.6	24.3	540	2.90	11.3	0.9	1.0	24	0.3	0.6	0.2	79	0.59	0.063	8
24415	Soil			1.0	52.1	11.3	72	0.2	159.7	23.8	759	3.61	18.8	1.4	3.8	48	0.2	0.4	0.2	101	1.27	0.138	24
24416	Soil			1.0	31.4	10.0	43	0.2	131.4	14.7	289	2.47	12.8	5.1	1.8	16	0.3	0.4	0.2	67	0.29	0.028	7
24417	Soil			1.2	46.0	10.7	61	<0.1	199.6	17.3	353	3.13	12.1	1.6	1.7	16	0.1	0.5	0.3	66	0.22	0.034	7
24418	Soil			2.0	64.0	9.1	68	<0.1	163.4	17.0	404	3.00	8.4	3.7	1.1	17	0.2	0.3	0.2	85	0.23	0.040	8
24419	Soil			1.3	92.0	12.2	62	<0.1	434.2	28.2	324	3.48	9.1	1.1	2.0	16	0.3	0.4	0.5	104	0.21	0.031	7
24420	Soil			1.4	90.0	7.5	73	0.1	121.7	19.8	328	2.79	5.2	2.1	1.3	14	0.4	0.3	0.3	89	0.19	0.050	10
24421	Soil			1.0	139.5	20.1	515	0.4	493.4	34.5	725	4.51	9.3	1.3	3.5	96	1.6	0.1	1.1	148	1.00	0.092	9
24422	Soil			0.9	38.8	9.1	60	0.3	72.7	14.4	422	2.35	23.0	4.0	1.3	14	0.3	0.5	0.1	67	0.24	0.068	11
24423	Soil			1.0	88.4	11.0	96	0.3	159.8	36.8	906	3.93	10.1	<0.5	1.8	28	0.7	0.4	1.0	85	1.12	0.078	11
24424	Soil			2.8	83.4	13.1	48	0.5	321.6	24.7	786	2.53	14.4	2.5	0.4	19	0.1	0.7	0.1	69	0.31	0.091	11
24425	Soil			1.4	44.8	5.4	58	0.2	38.7	8.5	277	2.52	5.4	1.5	2.3	14	0.1	0.3	0.1	91	0.20	0.040	9
24426	Soil			0.5	75.1	3.9	91	0.2	44.0	17.0	435	4.47	7.8	2.4	2.0	26	0.2	0.3	<0.1	160	0.33	0.090	8
24427	Soil			1.1	87.7	5.3	77	0.3	33.2	17.5	776	3.88	7.0	2.3	1.8	54	0.5	0.3	0.1	135	0.65	0.107	8
24428	Soil			34.2	98.9	14.1	273	0.8	96.5	32.0	460	5.43	15.7	6.0	3.8	50	1.6	1.1	0.4	97	0.16	0.115	9

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.

**CERTIFICATE OF ANALYSIS**

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
				Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
24384	Soil			194	2.34	270	0.192	2	6.21	0.024	0.60	0.9	0.14	12.5	3.7	<0.05	14	1.3	0.2
24385	Soil			110	1.40	249	0.147	3	3.32	0.027	0.32	0.6	0.04	6.5	1.7	<0.05	9	<0.5	<0.2
24386	Soil			83	1.18	226	0.113	2	3.09	0.027	0.32	0.6	0.05	5.4	1.9	<0.05	8	<0.5	<0.2
24387	Soil			96	1.39	311	0.140	3	3.95	0.035	0.42	0.5	0.03	5.8	2.2	<0.05	10	<0.5	<0.2
24388	Soil			225	2.98	394	0.255	1	4.37	0.029	0.87	0.6	0.04	7.6	3.5	<0.05	11	0.6	<0.2
24389	Soil			67	1.69	159	0.151	1	4.29	0.043	0.58	0.7	0.02	8.1	2.5	<0.05	8	<0.5	<0.2
24390	Soil			75	1.76	196	0.173	3	4.28	0.040	0.66	0.4	0.03	7.6	2.2	<0.05	9	<0.5	<0.2
24391	Soil			134	1.65	233	0.149	4	3.55	0.021	0.64	0.6	0.05	7.3	2.6	<0.05	10	0.5	0.2
24392	Soil			147	1.96	253	0.277	4	3.61	0.019	0.55	0.5	0.04	11.8	2.0	0.08	12	0.5	<0.2
24393	Soil			86	0.99	174	0.130	3	2.71	0.016	0.30	0.7	0.07	7.0	0.8	0.10	8	<0.5	<0.2
24394	Soil			121	1.30	175	0.127	3	2.51	0.019	0.28	0.6	0.02	5.4	0.5	<0.05	8	<0.5	<0.2
24410	Soil			10	0.76	81	0.084	3	2.61	0.078	0.13	0.3	0.03	2.0	<0.1	0.13	7	0.7	<0.2
24411	Soil			10	0.59	121	0.075	1	1.44	0.080	0.21	0.3	0.03	0.9	<0.1	0.10	4	0.7	<0.2
24412	Soil			59	0.88	139	0.097	2	2.20	0.017	0.09	0.2	0.04	3.0	0.2	0.06	7	<0.5	<0.2
24413	Soil			73	0.75	130	0.021	2	1.99	0.012	0.07	0.1	0.03	0.9	0.2	0.13	7	<0.5	<0.2
24414	Soil			128	1.68	191	0.103	4	1.95	0.019	0.17	0.2	0.04	5.5	0.3	<0.05	6	0.8	<0.2
24415	Soil			87	1.96	245	0.261	3	2.53	0.045	0.59	0.2	0.02	7.4	0.4	<0.05	8	<0.5	<0.2
24416	Soil			82	1.18	133	0.114	3	1.57	0.015	0.09	0.2	0.03	4.2	0.2	<0.05	5	<0.5	<0.2
24417	Soil			124	1.80	139	0.138	2	1.85	0.016	0.14	0.3	0.03	5.6	0.3	<0.05	7	<0.5	<0.2
24418	Soil			110	1.45	152	0.146	2	2.46	0.018	0.20	0.2	0.03	6.8	0.3	<0.05	8	<0.5	<0.2
24419	Soil			158	2.07	157	0.195	<1	2.69	0.022	0.29	0.3	0.04	6.9	0.4	<0.05	8	<0.5	<0.2
24420	Soil			78	1.12	132	0.147	<1	2.35	0.018	0.16	0.2	0.02	5.0	0.3	<0.05	7	0.9	<0.2
24421	Soil			200	3.70	234	0.217	<1	3.64	0.038	0.65	0.3	0.04	11.0	2.2	<0.05	12	0.5	<0.2
24422	Soil			64	0.83	243	0.097	2	1.92	0.019	0.08	0.2	0.05	4.2	0.2	<0.05	6	<0.5	<0.2
24423	Soil			74	1.70	143	0.113	4	2.85	0.011	0.06	1.8	0.06	6.7	0.3	0.09	6	0.9	<0.2
24424	Soil			75	0.80	316	0.052	3	1.98	0.014	0.09	0.1	0.05	3.0	0.2	<0.05	6	0.7	<0.2
24425	Soil			58	1.05	286	0.217	2	1.92	0.017	0.15	0.3	0.05	6.1	0.2	<0.05	9	0.9	<0.2
24426	Soil			83	1.69	349	0.323	2	3.11	0.031	0.73	0.3	0.04	11.5	0.4	<0.05	11	0.7	<0.2
24427	Soil			77	1.54	500	0.274	1	2.63	0.047	0.45	0.3	0.03	11.5	0.4	0.07	9	1.3	<0.2
24428	Soil			52	0.77	991	0.094	<1	2.44	0.041	0.17	0.2	0.05	5.1	0.1	0.31	9	4.7	<0.2

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**Project:** Jubilee  
**Report Date:** January 20, 2014

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**CERTIFICATE OF ANALYSIS**

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Method	Analyte	Unit	MDL	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
24429	Soil			1.2	63.4	6.8	93	0.2	39.8	17.0	520	3.23	7.8	1.8	1.2	46	0.2	0.3	0.1	120	0.51	0.066	8
24430	Soil			0.5	57.1	4.3	46	0.1	29.7	12.2	194	2.53	5.7	1.6	1.1	21	<0.1	0.2	0.1	80	0.31	0.028	6
24431	Soil			0.5	37.4	25.9	58	0.3	30.8	9.4	701	1.88	3.7	0.9	1.2	79	0.6	0.3	0.4	40	1.59	0.094	11
24432	Soil			1.7	37.1	7.5	68	<0.1	93.6	14.9	398	2.77	6.2	1.7	1.8	22	0.2	0.4	0.1	92	0.31	0.031	8
24433	Soil			1.2	42.7	8.0	59	0.1	109.2	15.8	375	2.81	5.7	1.9	0.6	15	0.3	0.4	0.1	85	0.22	0.074	10
24434	Soil			1.1	43.4	15.1	51	0.2	76.3	12.7	263	2.62	16.9	1.3	2.5	16	0.2	0.6	0.2	80	0.24	0.037	9
24435	Soil			1.3	60.4	22.2	83	0.3	98.0	23.0	898	3.09	6.5	2.5	2.6	15	0.5	0.2	0.4	84	0.25	0.054	10
24436	Soil			1.5	89.1	10.2	53	0.3	113.8	13.3	243	2.58	8.4	2.4	2.0	18	0.6	0.3	0.2	80	0.22	0.056	8
24437	Soil			1.2	29.9	8.1	43	<0.1	83.8	15.0	438	2.49	11.0	2.5	2.6	13	0.3	0.3	0.2	77	0.20	0.032	10
24438	Soil			1.0	58.0	9.0	81	0.2	119.1	16.4	437	2.88	18.5	2.5	1.9	14	0.4	0.4	0.3	96	0.20	0.055	10
24439	Soil			1.2	41.7	12.0	56	0.3	115.6	14.9	297	2.52	17.2	1.3	0.5	14	0.3	0.4	0.2	76	0.24	0.082	10
24440	Soil			0.9	45.3	9.2	53	0.2	99.5	11.0	238	2.22	10.7	2.4	1.0	21	0.1	0.4	0.2	67	0.41	0.052	8
31884	Soil			0.8	19.9	7.9	41	0.1	66.9	10.7	337	2.22	9.2	4.2	2.6	25	<0.1	0.6	0.1	60	0.50	0.032	11
31885	Soil			1.2	249.8	6.9	112	0.1	389.5	46.5	412	4.49	5.5	3.3	1.8	27	0.5	0.4	0.1	104	0.48	0.078	8
31886	Soil			1.4	56.2	9.0	62	0.1	261.5	30.6	268	3.46	8.9	2.4	3.3	16	0.2	0.5	0.2	84	0.22	0.022	13
31887	Soil			1.8	125.5	10.5	82	1.6	604.1	20.9	341	4.11	13.1	6.9	1.4	17	0.2	0.8	0.3	93	0.29	0.094	8
31888	Soil			1.0	90.8	5.2	43	0.1	364.1	26.1	245	2.82	4.1	1.2	0.4	16	0.1	0.4	0.1	88	0.22	0.055	7
31889	Soil			1.0	59.9	149.5	99	0.9	156.8	15.3	214	3.05	4.1	1.3	1.6	13	0.5	0.4	0.4	84	0.21	0.022	6
31890	Soil			2.6	68.1	7.2	77	0.1	150.3	16.4	266	3.23	5.6	1.3	1.6	15	0.2	0.3	0.3	94	0.22	0.029	7
31891	Soil			1.8	77.5	29.8	120	0.7	270.8	30.3	718	3.63	13.7	1.5	1.6	19	0.3	0.8	0.5	104	0.28	0.038	7
31892	Soil			1.7	41.4	9.6	56	0.3	95.3	16.5	622	2.70	7.5	3.6	1.4	25	0.2	0.9	0.2	85	0.30	0.057	9
31893	Soil			1.1	43.7	7.9	82	0.2	116.5	18.6	450	3.00	7.3	<0.5	1.1	29	0.3	0.7	0.2	79	0.66	0.074	10
31894	Soil			1.4	151.6	102.0	212	1.1	38.3	12.9	477	2.56	2.9	1.2	0.2	52	2.9	0.3	0.7	64	0.47	0.137	9
31895	Soil			0.8	64.1	6.7	70	0.1	174.3	21.4	659	3.02	12.4	3.5	1.9	43	0.8	1.1	0.1	86	1.34	0.145	13
31896	Soil			0.5	36.2	4.5	53	0.1	103.6	14.6	479	2.24	8.7	0.6	0.8	93	0.7	0.8	<0.1	62	5.96	0.121	11
31897	Soil			0.5	32.0	7.5	60	0.1	79.8	11.7	386	2.46	7.5	0.7	2.5	40	0.4	0.5	0.2	63	1.17	0.083	15
31898	Soil			0.4	43.7	7.8	94	0.2	74.3	19.8	598	4.14	6.3	3.1	2.7	40	0.4	0.4	0.2	106	1.43	0.137	19
31899	Soil			1.7	23.9	12.2	109	0.2	38.6	21.4	2414	4.26	2.9	<0.5	3.2	37	1.0	0.3	0.6	56	0.70	0.116	20
32000	Soil			8.0	43.0	16.4	98	1.2	39.4	10.3	298	2.71	17.5	5.7	4.1	19	0.7	1.3	0.3	95	0.17	0.047	13
24483	Soil			3.5	57.0	35.7	177	0.3	52.8	14.6	1242	2.95	5.5	20.7	1.0	37	2.5	0.6	1.9	74	0.43	0.067	7

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Project: Jubilee  
Report Date: January 20, 2014

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16		
			Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
			ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm		
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5		
24429	Soil		70	1.22	337	0.191	<1	2.17	0.025	0.13	0.3	0.03	7.0	0.2	0.09	8	0.7	<0.2
24430	Soil		64	0.80	121	0.201	1	1.50	0.022	0.12	0.2	0.03	1.9	0.1	<0.05	8	<0.5	<0.2
24431	Soil		35	0.93	173	0.071	<1	2.02	0.026	0.07	0.7	0.05	3.0	<0.1	0.06	5	0.7	<0.2
24432	Soil		97	1.50	289	0.221	<1	1.89	0.019	0.13	0.3	0.04	5.8	0.1	<0.05	8	<0.5	<0.2
24433	Soil		112	1.24	145	0.093	2	2.52	0.019	0.09	0.2	0.04	3.2	0.2	<0.05	8	<0.5	<0.2
24434	Soil		84	1.07	193	0.165	2	2.17	0.021	0.10	0.2	0.03	5.1	0.2	<0.05	8	<0.5	<0.2
24435	Soil		89	1.22	154	0.178	3	2.66	0.021	0.19	0.3	0.07	7.0	0.2	<0.05	9	0.7	<0.2
24436	Soil		99	1.09	186	0.153	3	2.40	0.020	0.12	0.3	0.08	5.9	0.3	<0.05	7	<0.5	<0.2
24437	Soil		76	1.04	148	0.145	<1	1.82	0.015	0.10	0.2	0.04	4.3	0.2	<0.05	7	0.7	<0.2
24438	Soil		121	1.48	238	0.160	3	2.51	0.017	0.31	0.3	0.03	7.9	0.5	<0.05	8	<0.5	<0.2
24439	Soil		103	1.20	159	0.087	3	2.41	0.020	0.15	0.2	0.05	3.8	0.4	0.08	7	<0.5	<0.2
24440	Soil		87	1.03	196	0.111	3	1.65	0.020	0.10	0.2	0.04	4.1	0.3	<0.05	8	<0.5	<0.2
31884	Soil		55	0.75	400	0.076	2	1.87	0.021	0.11	0.2	0.05	4.4	0.2	<0.05	8	<0.5	<0.2
31885	Soil		166	2.43	627	0.151	2	3.20	0.052	0.45	0.1	0.03	6.8	0.4	<0.05	10	1.0	<0.2
31886	Soil		121	1.69	212	0.156	3	3.10	0.022	0.12	0.2	0.04	6.3	0.2	<0.05	8	<0.5	<0.2
31887	Soil		153	1.44	172	0.088	3	3.35	0.014	0.14	0.2	0.10	8.1	0.2	0.10	10	1.0	<0.2
31888	Soil		129	2.16	96	0.059	2	2.10	0.020	0.06	0.2	0.04	3.6	0.1	<0.05	8	0.7	<0.2
31889	Soil		105	1.26	96	0.126	3	1.65	0.024	0.06	0.3	0.04	4.1	0.2	<0.05	7	0.8	<0.2
31890	Soil		105	1.38	139	0.194	3	1.90	0.020	0.29	0.2	0.03	7.3	0.2	<0.05	9	0.6	<0.2
31891	Soil		170	1.89	153	0.145	<1	2.76	0.020	0.24	0.2	0.05	7.5	0.5	<0.05	9	0.5	<0.2
31892	Soil		89	0.91	212	0.124	2	1.91	0.020	0.10	0.2	0.07	5.2	0.3	<0.05	9	<0.5	<0.2
31893	Soil		94	1.25	213	0.150	2	1.98	0.029	0.35	0.2	0.03	5.1	0.3	<0.05	7	0.7	<0.2
31894	Soil		58	0.95	257	0.068	2	2.96	0.024	0.27	0.3	0.09	2.3	1.0	0.13	8	1.1	<0.2
31895	Soil		126	1.50	248	0.130	3	2.54	0.058	0.16	0.2	0.03	6.4	0.2	<0.05	8	0.9	<0.2
31896	Soil		70	1.17	159	0.094	4	2.11	0.071	0.23	0.2	0.04	3.5	0.2	0.10	6	1.4	<0.2
31897	Soil		55	1.02	175	0.133	3	1.96	0.058	0.13	0.3	0.03	4.4	0.2	<0.05	7	1.0	<0.2
31898	Soil		50	1.23	228	0.237	3	2.61	0.070	0.29	0.2	0.03	7.5	0.3	<0.05	10	0.7	<0.2
31899	Soil		36	1.10	185	0.288	2	2.32	0.026	0.32	0.5	0.04	3.6	0.2	<0.05	11	<0.5	<0.2
32000	Soil		55	0.83	388	0.096	<1	2.67	0.016	0.11	0.3	0.07	5.9	0.3	<0.05	9	1.8	<0.2
24483	Soil		78	0.86	200	0.189	7	1.84	0.021	0.32	1.4	0.06	3.8	1.1	0.10	7	<0.5	<0.2

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**Project:** Jubilee  
**Report Date:** January 20, 2014

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm			
24484	Soil			1.7	114.4	72.1	231	0.3	91.7	23.9	818	4.19	8.2	1.7	1.1	49	0.8	0.6	2.0	94	0.45	0.062	8
24485	Soil			2.8	106.0	80.5	248	0.4	47.4	27.5	7129	5.86	5.1	1.4	0.7	25	2.3	0.5	1.7	70	0.41	0.117	6
24486	Soil			1.4	93.4	63.1	205	0.3	73.8	19.2	715	3.44	6.5	1.3	1.1	42	0.9	0.5	1.6	79	0.41	0.062	6
24487	Soil			1.7	569.8	20.7	338	1.6	81.5	24.3	1361	5.39	2.9	3.8	0.7	52	1.3	0.5	13.7	95	0.46	0.093	7
24488	Soil			1.8	213.0	65.8	153	0.2	75.3	22.6	867	3.85	5.6	1.7	1.4	75	0.9	0.4	3.4	95	0.46	0.050	6
24489	Soil			0.9	97.5	23.1	125	1.4	85.2	21.7	711	3.30	7.4	1.3	1.6	97	0.8	0.4	1.7	80	0.59	0.039	7
24490	Soil			1.7	252.0	33.5	250	2.5	45.4	26.5	1741	4.06	4.7	7.1	0.4	60	1.5	0.4	3.8	98	0.52	0.217	6
24491	Soil			0.6	70.4	16.5	197	0.2	70.9	30.7	1589	6.79	3.4	1.4	0.7	264	0.8	0.3	3.8	129	1.01	0.048	3
24492	Soil			1.9	73.6	28.7	113	0.3	62.9	20.7	998	2.79	8.8	0.6	0.3	34	0.4	0.5	1.2	74	0.39	0.164	7
24493	Soil			1.4	179.2	15.4	58	0.9	48.4	14.8	420	3.80	5.4	3.5	1.5	105	0.3	0.4	1.0	76	0.96	0.028	6
24494	Soil			1.3	95.1	29.1	133	0.3	121.2	21.1	533	3.06	16.7	3.1	3.1	22	0.7	0.7	1.0	76	0.36	0.082	12
24495	Soil			1.3	217.2	27.2	129	0.3	113.7	19.6	489	2.78	16.4	3.1	3.3	25	0.3	0.6	1.9	67	0.37	0.027	10
24496	Soil			2.2	129.9	24.9	143	0.3	150.9	31.2	555	3.77	18.1	0.9	3.4	20	0.5	0.5	1.0	129	0.35	0.034	6
24497	Soil			1.3	105.2	21.8	119	0.8	127.3	20.9	482	3.19	11.7	3.2	2.4	23	0.2	0.4	0.9	99	0.40	0.056	10
24498	Soil			2.1	105.7	33.0	178	0.3	176.7	24.0	671	3.37	21.1	3.9	3.1	20	0.7	0.6	1.2	79	0.37	0.064	11
24499	Soil			1.1	117.7	27.9	135	0.4	101.9	22.8	686	3.32	10.9	<0.5	2.1	36	0.7	0.5	0.9	89	0.50	0.056	8
24500	Soil			0.7	89.0	20.6	84	0.3	93.5	11.8	311	2.20	10.6	<0.5	4.6	22	0.2	0.4	0.7	62	0.38	0.048	14
22484	Soil			0.7	27.7	6.8	78	0.2	49.1	19.6	557	4.58	6.8	<0.5	2.5	28	0.3	0.4	0.2	115	0.62	0.099	14
22485	Soil			0.5	21.2	11.5	93	0.2	23.2	10.2	3037	3.11	2.3	<0.5	0.7	71	2.9	0.3	0.4	46	3.22	0.156	16
22486	Soil			0.7	32.9	8.3	88	0.1	64.5	12.4	403	2.35	4.4	1.6	0.8	46	0.5	0.3	0.2	66	2.08	0.117	11
22487	Soil			1.4	46.3	9.5	71	<0.1	100.1	18.2	576	3.04	7.9	<0.5	1.4	19	0.3	0.7	0.2	91	0.47	0.066	9
22488	Soil			0.9	66.8	13.0	72	0.3	265.5	22.4	357	2.88	18.9	1.9	1.5	30	0.5	0.7	0.2	83	0.98	0.086	6
22489	Soil			1.5	80.5	12.0	66	0.3	336.5	35.4	672	3.24	36.2	3.1	1.8	44	0.5	1.2	0.2	83	2.91	0.082	7
22490	Soil			1.2	62.6	23.6	58	0.2	269.4	24.3	499	2.69	17.1	2.3	1.0	26	0.2	0.7	0.2	84	0.82	0.044	7
22491	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
22492	Soil			1.9	75.8	21.5	50	0.7	265.5	18.8	309	2.33	13.6	1.4	0.2	20	0.2	0.5	0.2	62	0.48	0.101	7
22493	Soil			2.0	130.9	22.3	66	0.5	203.8	19.7	282	5.30	6.0	<0.5	1.6	11	0.2	0.4	1.2	90	0.17	0.049	6
22494	Soil			1.8	37.2	20.1	48	0.6	67.3	6.7	92	1.50	2.4	<0.5	0.2	28	0.5	0.3	0.2	38	0.41	0.096	5
22495	Soil			0.6	136.5	15.1	55	0.2	85.1	16.6	163	2.26	2.5	<0.5	0.8	14	0.2	0.2	0.1	78	0.22	0.026	4
22496	Soil			0.8	160.5	18.3	84	0.2	181.1	22.3	320	3.22	5.7	3.3	2.1	31	0.2	0.5	0.1	95	0.34	0.066	12

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## CERTIFICATE OF ANALYSIS

WHI13000577.1

Method	Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
			ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
24484	Soil		75	1.29	286	0.181	1	3.23	0.028	0.34	0.8	0.07	5.2	1.6	<0.05	10	<0.5	<0.2
24485	Soil		65	0.78	178	0.097	4	1.85	0.019	0.14	0.5	0.05	3.1	1.4	0.08	7	<0.5	<0.2
24486	Soil		65	1.24	258	0.155	3	3.18	0.030	0.33	0.8	0.05	4.7	1.5	0.05	8	0.8	<0.2
24487	Soil		94	1.11	217	0.102	2	3.36	0.029	0.57	0.9	0.08	5.4	3.9	0.08	10	0.5	0.4
24488	Soil		81	1.33	172	0.141	3	4.21	0.046	0.32	0.8	0.04	6.8	1.8	<0.05	10	0.9	<0.2
24489	Soil		100	1.39	131	0.128	2	3.58	0.040	0.43	0.7	0.04	6.0	1.6	<0.05	8	0.9	<0.2
24490	Soil		80	1.21	124	0.048	4	3.10	0.029	0.31	0.9	0.10	4.6	2.2	0.13	8	<0.5	<0.2
24491	Soil		149	1.93	182	0.220	<1	5.21	0.044	1.39	0.8	0.01	13.6	5.9	<0.05	12	<0.5	0.2
24492	Soil		64	0.81	184	0.050	2	2.76	0.020	0.24	0.5	0.08	1.9	0.8	0.15	8	0.8	<0.2
24493	Soil		77	1.17	164	0.120	2	3.99	0.029	0.30	0.3	0.01	11.2	1.5	<0.05	9	<0.5	<0.2
24494	Soil		87	1.23	204	0.125	4	2.59	0.020	0.26	0.8	0.02	4.8	0.9	<0.05	8	<0.5	<0.2
24495	Soil		91	1.12	127	0.125	2	2.11	0.020	0.25	0.9	0.01	4.8	0.7	<0.05	7	<0.5	0.3
24496	Soil		119	1.63	217	0.226	2	3.31	0.025	0.51	0.8	0.02	8.7	1.4	<0.05	9	<0.5	<0.2
24497	Soil		117	1.46	292	0.175	2	3.11	0.023	0.30	0.7	0.02	6.2	0.9	<0.05	9	<0.5	<0.2
24498	Soil		136	1.43	176	0.142	<1	2.53	0.024	0.22	1.1	0.03	4.9	0.7	<0.05	7	<0.5	<0.2
24499	Soil		94	1.40	128	0.153	2	2.83	0.019	0.34	0.8	0.03	5.7	1.4	<0.05	9	<0.5	<0.2
24500	Soil		79	1.00	122	0.129	2	1.66	0.025	0.21	0.8	0.02	4.7	0.8	<0.05	5	<0.5	<0.2
22484	Soil		47	1.20	119	0.279	2	2.89	0.023	0.40	0.4	0.02	5.7	0.3	<0.05	12	0.5	<0.2
22485	Soil		26	0.73	247	0.098	2	1.99	0.035	0.14	0.2	0.05	2.2	0.2	0.13	7	0.5	<0.2
22486	Soil		45	0.89	187	0.119	2	2.17	0.040	0.18	0.2	0.04	3.4	0.2	0.14	7	1.0	<0.2
22487	Soil		117	1.28	199	0.123	1	2.76	0.017	0.12	0.2	0.02	5.3	0.2	<0.05	8	1.1	<0.2
22488	Soil		135	1.83	189	0.118	3	2.17	0.041	0.13	0.2	0.02	6.3	0.3	0.06	7	0.8	<0.2
22489	Soil		171	2.25	186	0.113	3	2.27	0.037	0.29	0.2	0.02	7.2	0.7	0.06	7	<0.5	<0.2
22490	Soil		132	1.77	133	0.101	<1	2.23	0.027	0.10	0.2	0.01	5.8	0.3	<0.05	6	<0.5	<0.2
22491	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
22492	Soil		98	1.10	153	0.044	<1	2.10	0.018	0.07	0.1	0.04	2.8	0.3	0.11	5	<0.5	<0.2
22493	Soil		107	1.29	101	0.142	2	1.95	0.021	0.09	4.3	0.05	5.3	0.2	<0.05	7	2.3	0.4
22494	Soil		52	0.42	140	0.044	1	1.14	0.014	0.05	0.2	0.07	2.2	<0.1	0.18	4	<0.5	<0.2
22495	Soil		91	1.29	140	0.154	<1	2.02	0.033	0.11	0.1	0.03	2.9	0.2	<0.05	7	<0.5	<0.2
22496	Soil		111	1.45	277	0.167	2	2.81	0.021	0.25	0.1	0.03	7.3	0.2	<0.05	8	<0.5	<0.2



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Project: Jubilee  
 Report Date: January 20, 2014

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI13000577.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.6	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
22497	Soil			0.8	28.0	7.6	41	<0.1	150.1	11.8	253	2.08	8.1	<0.5	3.0	19	0.1	0.6	0.1	64	0.26	0.011	9
22498	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
22499	Soil			1.3	36.5	13.2	62	0.3	131.2	18.5	455	2.79	4.8	<0.5	1.6	18	0.2	0.3	0.3	95	0.28	0.037	6
24601	Soil			2.9	119.5	64.6	136	0.4	67.6	17.2	726	2.92	13.3	<0.5	3.1	32	0.4	0.5	1.1	74	0.87	0.065	17
24602	Soil			2.3	122.7	59.5	141	0.2	77.3	21.3	836	3.26	13.6	1.0	3.9	23	0.7	0.6	1.3	85	0.52	0.042	13
24603	Soil			2.8	107.1	57.9	139	0.2	81.6	29.2	1527	3.57	13.7	<0.5	1.6	27	0.9	0.6	1.5	97	0.48	0.073	12
24604	Soil			2.3	103.1	54.7	134	0.6	68.9	16.3	611	2.62	13.3	1.4	4.1	47	0.5	0.6	1.5	65	0.36	0.028	11
24605	Soil			2.9	94.8	61.9	131	0.3	52.4	13.8	552	2.46	14.2	<0.5	4.7	36	0.5	0.6	1.5	60	0.40	0.031	15
24606	Soil			2.9	136.0	68.2	221	0.5	72.5	20.4	796	3.59	11.5	2.2	3.2	51	1.0	0.6	2.2	86	0.47	0.054	11
24607	Soil			2.0	144.9	72.2	217	0.5	77.5	19.5	614	3.08	10.3	2.3	3.5	80	1.4	0.5	2.3	80	0.65	0.069	12
24608	Soil			1.6	134.4	74.9	196	1.0	78.0	19.2	897	3.22	9.8	1.0	1.8	48	0.8	0.5	2.2	74	0.47	0.075	11
24609	Soil			2.0	161.8	113.3	333	0.8	109.5	25.1	973	3.92	17.5	<0.5	2.3	52	1.5	0.6	5.1	93	0.50	0.046	9
24610	Soil			1.5	117.0	61.9	172	0.5	94.8	18.4	717	3.05	10.9	6.4	2.4	44	0.5	0.6	2.7	79	0.53	0.055	11
24611	Soil			1.0	212.8	67.1	315	0.9	120.7	23.1	1084	4.09	9.2	<0.5	2.6	56	0.9	0.5	2.1	98	0.61	0.058	11
24612	Soil			1.2	146.0	53.4	249	0.3	125.2	28.9	936	3.64	13.0	1.8	1.9	410	1.1	0.6	2.1	89	0.76	0.081	9
24613	Soil			1.2	121.5	38.0	160	0.4	127.5	21.1	717	3.01	14.0	1.5	2.8	59	1.0	0.7	1.9	68	0.59	0.069	11
24614	Soil			1.5	117.2	34.6	163	0.4	122.5	20.6	654	3.38	23.3	2.1	3.3	32	0.7	0.9	1.8	79	0.47	0.043	13
24615	Soil			1.2	107.1	45.6	143	0.3	113.7	23.8	799	2.82	20.2	2.0	4.0	52	1.2	0.7	2.2	69	0.52	0.055	13
24471	Soil			3.0	120.5	40.1	111	0.4	71.8	11.6	463	2.64	20.9	3.2	12.3	26	0.6	0.7	1.3	45	0.42	0.024	28
24472	Soil			2.7	105.1	41.9	111	0.5	55.5	12.6	610	2.49	14.1	2.4	3.7	48	0.7	0.6	1.1	57	1.04	0.066	18
24473	Soil			2.5	80.0	33.3	110	0.6	53.5	13.4	846	2.45	13.0	<0.5	3.5	35	2.8	0.5	1.1	52	0.57	0.057	16
24474	Soil			2.4	80.5	37.3	111	0.5	69.8	15.4	573	2.87	15.3	1.7	3.8	31	0.5	0.6	1.2	64	0.50	0.056	16
24475	Soil			4.5	103.9	44.1	112	0.2	56.0	11.9	671	2.63	25.2	4.7	7.3	26	0.6	0.7	1.5	49	0.36	0.048	24
24476	Soil			3.1	83.8	46.9	111	0.2	50.0	10.3	509	2.21	21.3	4.8	7.7	49	0.4	0.6	1.4	43	0.41	0.063	23
24477	Soil			3.1	109.1	58.4	124	0.4	60.7	15.4	684	2.96	22.1	2.4	5.5	60	0.4	0.6	1.7	62	0.42	0.045	21
24478	Soil			3.0	84.1	50.1	120	0.6	53.5	9.9	367	2.64	18.3	4.9	1.8	32	0.6	0.6	1.4	50	0.31	0.076	19
24479	Soil			2.0	47.6	66.3	192	0.2	56.6	16.1	1650	2.77	5.6	1.6	0.8	92	1.9	0.5	1.0	60	0.60	0.155	8
24480	Soil			3.9	101.8	61.8	176	0.8	62.6	14.5	959	3.13	19.9	2.4	2.4	40	1.3	0.8	1.7	66	0.40	0.073	14
24481	Soil			1.8	102.4	67.6	217	0.9	106.2	18.8	662	3.34	11.4	2.7	2.4	86	0.9	0.5	2.1	71	0.49	0.051	10
24482	Soil			1.6	61.3	41.3	146	0.5	74.3	16.5	919	3.00	7.2	3.8	0.6	62	1.0	0.4	1.5	67	0.44	0.091	6

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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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15		1DX15		1DX15		1DX15		1DX15		1DX15		1DX15		1DX15	
		Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
22497	Soil	63	0.83	247	0.096	3	1.72	0.022	0.06	0.2	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
22498	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
22499	Soil	105	1.40	177	0.196	2	1.72	0.022	0.24	0.3	0.04	6.7	0.3	<0.05	8	<0.5	<0.2
24601	Soil	83	1.02	166	0.131	<1	2.25	0.038	0.24	1.1	0.04	5.0	0.9	<0.05	7	0.9	<0.2
24602	Soil	76	1.13	167	0.159	1	2.66	0.030	0.19	1.1	0.02	5.7	0.9	<0.05	8	<0.5	<0.2
24603	Soil	73	1.04	183	0.109	2	2.51	0.020	0.20	0.8	0.04	5.5	0.9	<0.05	8	<0.5	<0.2
24604	Soil	59	0.93	172	0.146	1	2.32	0.026	0.35	1.5	0.02	4.5	1.1	<0.05	6	<0.5	<0.2
24605	Soil	55	0.83	145	0.154	<1	1.55	0.030	0.29	1.7	<0.01	4.3	1.1	<0.05	5	<0.5	<0.2
24606	Soil	77	1.13	228	0.204	1	3.08	0.029	0.39	1.9	0.03	6.0	1.8	<0.05	9	<0.5	<0.2
24607	Soil	81	1.16	189	0.163	<1	2.18	0.042	0.44	1.6	<0.01	6.1	1.6	<0.05	7	<0.5	<0.2
24608	Soil	71	1.00	210	0.117	<1	2.50	0.025	0.34	1.5	0.04	4.6	1.4	<0.05	7	0.6	<0.2
24609	Soil	95	1.43	239	0.193	<1	3.23	0.035	0.58	2.5	0.03	6.8	2.1	<0.05	9	0.6	<0.2
24610	Soil	77	1.26	181	0.179	2	2.21	0.038	0.32	1.6	<0.01	5.4	1.4	<0.05	7	<0.5	<0.2
24611	Soil	110	1.62	257	0.225	<1	3.01	0.043	0.51	0.9	0.02	7.8	2.1	<0.05	9	<0.5	<0.2
24612	Soil	114	1.67	300	0.169	2	3.87	0.029	0.61	0.8	0.02	7.3	1.7	<0.05	9	<0.5	<0.2
24613	Soil	108	1.40	210	0.146	<1	2.04	0.040	0.47	1.4	<0.01	5.9	1.5	<0.05	6	<0.5	<0.2
24614	Soil	107	1.32	183	0.158	1	2.59	0.031	0.50	1.1	0.02	6.9	1.2	<0.05	8	<0.5	<0.2
24615	Soil	96	1.26	161	0.149	<1	1.96	0.044	0.47	1.2	0.01	6.6	1.4	<0.05	6	<0.5	<0.2
24471	Soil	70	0.91	117	0.130	<1	1.84	0.040	0.31	1.2	<0.01	4.8	0.9	<0.05	6	<0.5	<0.2
24472	Soil	65	0.85	169	0.107	1	1.85	0.029	0.35	1.2	0.04	4.6	1.0	0.07	6	<0.5	<0.2
24473	Soil	58	0.74	230	0.111	<1	1.69	0.022	0.24	1.3	0.04	4.0	0.6	<0.05	6	<0.5	<0.2
24474	Soil	71	1.02	174	0.132	<1	2.21	0.026	0.31	1.2	0.03	4.5	0.8	<0.05	7	<0.5	<0.2
24475	Soil	57	0.81	154	0.133	<1	1.89	0.021	0.23	2.1	0.02	3.8	0.7	<0.05	6	<0.5	0.2
24476	Soil	48	0.67	138	0.119	<1	1.37	0.024	0.18	1.7	<0.01	3.5	0.7	<0.05	4	<0.5	<0.2
24477	Soil	59	0.91	197	0.161	<1	2.52	0.028	0.22	1.6	0.01	4.8	1.1	<0.05	7	<0.5	<0.2
24478	Soil	54	0.78	170	0.087	<1	2.31	0.019	0.21	1.4	0.05	3.2	0.9	<0.05	7	<0.5	<0.2
24479	Soil	66	0.86	359	0.081	1	2.16	0.024	0.34	0.8	0.05	3.4	0.9	0.09	7	<0.5	<0.2
24480	Soil	62	0.89	189	0.124	<1	2.34	0.022	0.30	1.7	0.04	4.5	1.2	<0.05	8	<0.5	<0.2
24481	Soil	65	1.23	197	0.146	<1	2.86	0.024	0.36	1.8	0.02	5.2	1.3	<0.05	7	<0.5	<0.2
24482	Soil	60	1.05	208	0.101	<1	2.58	0.022	0.34	1.3	0.07	3.5	1.2	0.08	8	<0.5	<0.2

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**CERTIFICATE OF ANALYSIS**

**WHI13000577.1**

Method	Analyte	Unit	MDL	1DX15	1DX16	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.01	0.001	1	
31971	Soil			0.4	47.9	20.1	108	<0.1	65.1	17.5	918	4.97	4.8	<0.5	4.2	42	0.3	0.2	0.3	71	1.11	0.281	30
31972	Soil			0.6	38.8	9.0	71	0.1	111.8	13.0	353	2.52	10.1	0.5	0.7	28	1.0	0.4	0.2	64	0.80	0.064	11
31973	Soil			0.3	26.0	18.2	142	0.2	25.9	8.3	804	3.56	2.9	<0.5	2.8	44	0.6	0.2	0.4	49	1.22	0.127	40
31974	Soil			0.5	38.3	8.0	52	<0.1	143.7	15.2	307	2.59	7.4	0.7	1.4	24	0.3	0.5	0.2	67	0.70	0.054	11
31975	Soil			0.4	29.7	8.0	78	0.1	113.1	17.0	707	3.86	6.7	<0.5	1.4	88	0.3	0.4	0.1	73	1.70	0.211	14
31976	Soil			0.8	38.0	8.4	75	<0.1	138.7	15.7	341	2.64	10.5	21.2	0.6	20	0.4	0.5	0.2	72	0.38	0.054	9
31977	Soil			0.6	68.0	13.1	53	0.2	251.5	25.6	492	2.59	15.4	1.5	2.2	36	0.3	0.6	0.2	67	0.50	0.050	9
24265	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
24266	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
24267	Soil			0.9	49.2	85.3	343	0.6	29.1	5.1	647	1.46	23.6	<0.5	8.8	35	3.8	1.0	1.4	15	8.46	0.048	50
24268	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
24269	Soil			0.5	11.4	9.3	40	0.1	22.1	5.8	258	1.46	16.5	7.0	3.3	66	0.6	1.7	0.1	26	12.31	0.034	16
24270	Soil			0.5	2.4	13.5	34	<0.1	6.4	0.9	139	0.86	5.3	<0.5	9.1	8	0.2	0.8	<0.1	3	0.92	0.013	26
24271	Soil			0.3	7.9	11.0	99	<0.1	22.2	3.2	103	0.61	13.2	1.0	0.8	48	2.1	2.3	0.1	14	17.26	0.074	6
24272	Soil			1.5	8.9	10.0	74	<0.1	32.6	3.4	177	0.80	10.3	1.2	0.5	64	1.7	2.5	<0.1	18	21.49	0.097	10
24395	Soil			1.0	87.9	54.4	142	0.1	204.3	23.0	526	3.05	27.7	<0.5	4.7	19	0.5	0.6	1.0	71	0.34	0.039	13
24396	Soil			1.1	121.5	49.5	112	<0.1	172.1	23.9	527	3.12	23.6	<0.5	3.1	16	0.5	0.5	1.1	73	0.30	0.036	9
24397	Soil			1.0	106.7	43.2	108	0.4	135.8	19.9	457	2.94	24.1	2.6	3.0	24	0.4	0.5	0.9	74	0.32	0.031	10
24398	Soil			0.8	103.8	20.7	79	0.5	75.9	18.1	471	2.76	13.2	1.3	2.2	33	0.5	0.6	0.6	67	0.32	0.050	12
24399	Soil			0.7	254.2	45.2	103	0.6	88.1	18.5	502	3.52	16.3	0.8	2.4	94	0.4	0.5	1.2	79	0.62	0.064	10
24400	Soil			1.0	224.3	38.7	115	0.5	87.2	23.1	518	3.16	16.4	6.1	3.3	36	0.5	0.5	1.1	78	0.41	0.055	11
24401	Soil			1.0	189.6	40.2	121	1.3	63.1	13.1	566	3.00	9.8	3.4	3.7	26	0.9	0.4	1.2	75	0.43	0.040	13
24402	Soil			0.8	247.7	33.5	156	0.6	106.0	20.7	747	4.02	15.0	<0.5	3.5	30	0.5	0.5	1.7	91	0.58	0.052	11
24403	Soil			1.8	88.6	57.7	149	0.5	110.6	13.0	551	2.96	28.7	2.2	2.1	19	1.0	0.6	1.3	75	0.36	0.076	27
24404	Soil			1.2	60.0	48.8	139	0.3	116.7	14.7	423	2.38	23.4	8.2	2.0	16	0.8	0.6	0.8	59	0.30	0.063	15
24405	Soil			1.5	75.5	67.1	159	0.3	89.9	17.5	687	2.74	31.9	3.6	0.7	15	0.9	0.7	1.1	68	0.23	0.079	16
24406	Soil			2.5	140.6	228.5	409	0.8	113.9	15.5	508	2.94	230.2	3.5	7.9	14	1.1	2.1	1.7	65	0.34	0.058	25
24407	Soil			3.0	453.9	36.3	194	9.1	122.6	17.1	802	9.77	16.3	26.5	3.7	14	0.7	0.7	30.2	64	0.90	0.049	17
24408	Soil			0.7	40.9	36.3	480	0.2	48.1	14.7	984	3.17	5.0	2.4	2.4	29	3.3	0.3	2.2	75	0.89	0.090	19
24409	Soil			0.5	40.9	33.2	264	0.4	61.8	15.5	820	3.64	3.8	5.0	3.6	39	1.1	0.3	1.0	82	1.04	0.140	23

**CERTIFICATE OF ANALYSIS**

**WHI13000577.1**

Method	Analyte	Unit	MDL	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16		
				Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
31971	Soil			30	1.85	325	0.322	<1	3.48	0.034	0.70	0.8	0.01	4.9	1.5	<0.05	11	<0.5	<0.2
31972	Soil			71	0.97	200	0.090	1	2.11	0.019	0.10	0.2	0.03	3.8	0.3	<0.05	6	<0.5	<0.2
31973	Soil			20	0.81	126	0.206	1	2.41	0.029	0.20	0.3	0.04	3.0	0.2	0.08	10	<0.5	<0.2
31974	Soil			80	1.15	167	0.107	1	2.17	0.021	0.09	0.2	0.01	4.7	0.2	<0.05	6	<0.5	<0.2
31975	Soil			55	1.55	187	0.210	1	3.81	0.180	0.35	0.2	0.02	4.2	0.2	<0.05	10	<0.5	<0.2
31976	Soil			98	1.22	188	0.087	1	2.34	0.015	0.10	0.2	0.01	4.3	0.2	<0.05	7	<0.5	<0.2
31977	Soil			113	1.74	254	0.108	<1	1.85	0.035	0.23	0.3	0.02	6.1	0.4	<0.05	5	<0.5	<0.2
24285	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
24286	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
24287	Soil			15	3.20	244	0.024	<1	1.68	0.004	0.04	0.4	0.85	3.7	0.5	<0.05	3	<0.5	<0.2
24288	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
24269	Soil			29	1.21	212	0.026	1	0.90	0.015	0.05	0.1	0.21	3.0	0.2	<0.05	2	<0.5	<0.2
24270	Soil			6	0.14	76	0.001	<1	0.82	0.008	0.05	0.1	0.04	0.7	0.2	<0.05	2	<0.5	<0.2
24271	Soil			26	1.24	24	0.009	9	0.28	0.007	0.05	0.6	0.06	1.0	<0.1	0.09	<1	<0.5	<0.2
24272	Soil			38	0.27	44	0.010	6	0.42	0.006	0.05	0.6	0.04	0.9	<0.1	0.08	1	<0.5	<0.2
24395	Soil			128	1.56	218	0.165	2	2.69	0.021	0.19	1.0	<0.01	5.3	0.6	<0.05	7	<0.5	<0.2
24396	Soil			89	1.33	155	0.134	<1	2.84	0.018	0.17	1.2	0.02	4.5	0.6	<0.05	8	0.6	<0.2
24397	Soil			97	1.22	145	0.144	1	2.49	0.021	0.20	1.3	0.02	4.9	0.4	<0.05	7	<0.5	<0.2
24398	Soil			65	0.89	153	0.110	<1	2.29	0.021	0.15	0.8	0.02	3.9	0.5	<0.05	6	<0.5	<0.2
24399	Soil			70	1.45	298	0.135	<1	4.05	0.023	0.30	0.8	0.02	5.6	1.2	<0.05	9	<0.5	0.2
24400	Soil			83	1.27	188	0.112	<1	2.78	0.020	0.33	1.6	0.04	4.8	0.8	<0.05	8	<0.5	0.4
24401	Soil			75	1.20	151	0.130	<1	2.74	0.012	0.30	0.9	0.05	5.4	1.0	<0.05	9	<0.5	0.2
24402	Soil			103	1.91	149	0.196	<1	3.18	0.020	0.68	1.3	0.02	6.7	2.2	<0.05	10	<0.5	<0.2
24403	Soil			92	0.96	123	0.111	2	2.10	0.013	0.16	1.4	0.04	3.3	0.3	0.07	9	<0.5	<0.2
24404	Soil			76	1.03	120	0.093	<1	2.05	0.016	0.12	0.9	<0.01	3.7	0.2	<0.05	6	<0.5	<0.2
24405	Soil			77	0.97	135	0.068	<1	2.14	0.012	0.17	0.8	0.02	2.3	0.4	<0.05	8	<0.5	<0.2
24406	Soil			82	1.10	116	0.121	<1	2.22	0.015	0.17	1.9	0.01	4.0	0.3	<0.05	7	<0.5	<0.2
24407	Soil			95	1.19	114	0.141	<1	2.00	0.014	0.13	13.3	0.03	4.9	0.2	<0.05	10	0.5	1.6
24408	Soil			48	1.07	168	0.215	<1	2.09	0.024	0.13	0.5	<0.01	4.3	0.2	<0.05	10	<0.5	<0.2
24409	Soil			50	1.30	211	0.270	<1	2.65	0.043	0.45	0.5	0.04	5.4	0.5	<0.05	10	<0.5	<0.2



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Project: Jubilee  
 Report Date: January 20, 2014

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1
24616	Soil			1.3	109.0	31.7	110	0.3	99.0	33.9	673	2.99	16.5	4.9	3.5	61	1.2	0.5	1.4	79	0.73	0.082	12
24617	Soil			1.6	64.6	19.6	92	0.4	66.9	15.7	532	2.83	6.8	<0.5	1.0	24	1.6	0.4	0.8	84	0.42	0.114	8
24618	Soil			1.4	93.7	27.0	127	0.2	144.0	24.5	630	3.29	17.2	4.8	2.9	25	0.4	0.7	1.0	87	0.37	0.055	11
24619	Soil			0.8	101.2	13.3	151	0.3	400.7	40.1	2240	5.65	3.7	2.3	2.3	73	0.6	0.5	1.3	101	0.58	0.085	15
24620	Soil			2.5	406.4	27.8	225	1.0	78.6	31.9	1376	4.55	2.6	2.8	0.9	478	1.1	0.5	5.4	91	0.89	0.065	5
24621	Soil			0.5	187.6	79.1	221	0.5	136.6	33.5	1382	5.56	1.4	2.0	0.8	239	0.9	0.3	4.4	99	0.77	0.072	6
24622	Soil			0.7	223.6	11.4	97	0.6	107.3	40.7	972	4.55	2.1	1.1	0.9	151	0.4	0.3	0.9	93	0.55	0.076	6
24623	Soil			0.7	133.4	17.6	84	0.7	104.7	26.2	603	3.52	8.5	0.8	1.3	309	0.7	0.5	0.6	84	0.75	0.060	6
24624	Soil			<0.1	185.3	7.3	71	0.3	59.2	32.3	866	4.79	0.8	0.6	0.4	270	0.6	0.2	1.2	129	1.46	0.052	3
24625	Soil			1.0	110.7	23.6	62	0.1	162.9	22.3	512	3.05	13.9	1.5	2.2	24	0.3	0.5	0.7	72	0.32	0.047	10
24626	Soil			0.9	126.3	23.7	84	0.3	75.3	19.7	502	2.90	8.9	6.3	1.1	24	0.4	0.5	0.6	76	0.29	0.091	9
24627	Soil			1.4	200.9	12.4	147	0.4	74.4	26.8	860	3.31	8.7	4.7	0.5	22	0.8	0.5	1.6	70	0.43	0.111	6
24628	Soil			0.4	92.9	10.3	170	0.7	86.9	29.3	832	4.00	5.9	2.5	2.0	62	2.4	0.3	0.3	121	0.65	0.060	8
24629	Soil			1.1	72.6	35.3	71	0.3	91.2	17.9	753	2.68	9.2	3.4	0.7	16	0.4	0.4	0.7	67	0.23	0.077	10
24630	Soil			0.7	64.4	14.9	68	0.3	120.5	15.2	382	2.66	10.7	3.2	1.2	22	0.5	0.4	0.4	67	0.30	0.064	11
24631	Soil			1.2	67.6	14.1	76	0.3	99.8	18.1	512	2.91	13.0	2.7	1.8	19	0.6	0.6	0.5	73	0.27	0.058	10
10030	Soil			0.9	121.4	10.7	57	0.3	110.5	16.3	312	2.71	21.5	7.7	3.5	20	0.3	0.4	0.2	74	0.41	0.022	10
10031	Soil			0.9	67.9	10.6	52	0.2	128.7	22.6	339	2.85	27.1	7.6	3.9	19	0.4	0.6	0.3	69	0.36	0.048	11
10032	Soil			1.1	40.2	9.2	50	<0.1	92.3	15.9	264	3.05	16.9	1.4	3.1	17	0.3	0.5	0.3	76	0.30	0.028	8
10033	Soil			0.7	69.6	11.1	56	0.3	110.4	17.1	315	2.83	20.9	6.9	2.8	19	0.3	0.6	0.3	69	0.33	0.035	10
10034	Soil			0.7	62.5	11.2	65	<0.1	99.3	17.0	329	3.21	41.7	12.3	2.1	28	0.2	0.5	0.3	66	0.51	0.029	8
10035	Soil			0.7	52.0	9.6	41	0.2	187.9	18.2	321	2.46	10.0	3.3	4.1	24	0.2	0.4	0.2	60	0.41	0.017	10
10036	Soil			0.6	69.1	12.9	51	0.1	158.2	16.9	311	2.58	12.4	4.7	3.0	22	0.1	0.4	0.2	68	0.40	0.032	9
10037	Soil			0.6	49.6	11.9	46	0.1	162.2	16.5	317	2.37	10.6	4.2	4.6	24	<0.1	0.4	0.1	61	0.45	0.032	16
10038	Soil			0.9	62.6	18.7	49	<0.1	142.3	18.2	271	2.65	20.5	6.4	2.9	17	0.1	0.5	0.1	66	0.31	0.021	10
10039	Soil			0.8	49.0	14.3	60	<0.1	105.0	15.0	282	2.70	13.3	2.9	3.0	22	0.2	0.5	0.2	67	0.41	0.024	9
10040	Soil			0.9	47.4	13.9	118	0.1	78.3	16.0	510	2.54	8.8	2.3	0.6	21	0.5	0.4	0.4	59	0.40	0.049	9
10953	Soil			0.7	47.8	10.0	56	<0.1	170.4	18.6	369	2.41	11.0	2.7	3.3	22	0.3	0.4	0.2	59	0.45	0.042	11
10954	Soil			0.9	34.2	16.6	61	<0.1	144.7	13.1	295	2.29	11.5	2.2	3.2	15	0.2	0.4	0.2	55	0.30	0.025	9
10955	Soil			0.7	37.7	16.5	49	<0.1	57.9	8.7	254	2.04	15.1	0.9	2.6	20	0.1	0.3	0.2	52	0.46	0.036	11

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: Jubilee  
 Report Date: January 20, 2014

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	
		Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
24616	Soil	79	1.43	218	0.160	<1	2.17	0.081	0.60	0.9	0.01	4.2	1.7	<0.05	7	<0.5	<0.2
24617	Soil	84	1.11	238	0.144	<1	2.45	0.025	0.32	0.7	0.07	4.7	1.1	0.08	9	<0.5	<0.2
24618	Soil	120	1.42	202	0.157	<1	2.86	0.026	0.33	0.8	0.02	5.4	1.1	<0.05	8	0.7	<0.2
24619	Soil	451	4.22	168	0.149	<1	4.08	0.018	0.83	0.5	0.03	10.1	4.8	<0.05	13	0.5	<0.2
24620	Soil	113	2.32	223	0.141	<1	4.81	0.036	0.81	0.9	0.02	11.1	5.0	<0.05	10	<0.5	0.3
24621	Soil	158	3.24	280	0.208	<1	5.10	0.024	1.08	0.5	0.03	10.9	6.3	<0.05	13	<0.5	0.3
24622	Soil	108	2.35	353	0.160	<1	4.47	0.031	0.89	0.4	0.03	7.1	3.4	<0.05	11	<0.5	<0.2
24623	Soil	116	1.56	602	0.201	2	3.72	0.024	0.52	0.4	0.05	8.5	0.9	<0.05	9	<0.5	<0.2
24624	Soil	135	2.45	250	0.260	<1	4.95	0.068	0.90	0.2	0.02	16.5	2.1	<0.05	11	<0.5	<0.2
24625	Soil	97	1.41	192	0.134	<1	2.93	0.020	0.16	0.7	0.04	5.4	0.5	<0.05	7	<0.5	<0.2
24626	Soil	78	0.98	151	0.108	<1	2.57	0.017	0.24	0.5	0.04	4.4	0.6	0.05	8	<0.5	<0.2
24627	Soil	67	0.96	143	0.081	<1	3.07	0.023	0.16	0.4	0.06	2.7	0.4	0.08	8	0.7	<0.2
24628	Soil	114	1.22	156	0.315	<1	3.48	0.028	0.32	0.3	0.02	12.8	0.8	<0.05	10	<0.5	<0.2
24629	Soil	112	1.10	132	0.078	<1	2.31	0.021	0.16	0.5	0.02	3.4	0.5	<0.05	8	<0.5	<0.2
24630	Soil	76	1.11	250	0.095	<1	2.24	0.020	0.14	0.4	0.02	4.4	0.4	<0.05	7	<0.5	<0.2
24631	Soil	83	1.17	213	0.110	<1	2.50	0.020	0.15	0.5	0.04	5.2	0.4	<0.05	8	<0.5	<0.2
10030	Soil	89	1.07	181	0.121	<1	2.37	0.022	0.06	0.3	0.01	5.2	0.2	<0.05	8	<0.5	<0.2
10031	Soil	126	1.39	229	0.121	2	2.52	0.022	0.08	0.4	0.04	5.6	0.2	<0.05	6	<0.5	<0.2
10032	Soil	123	1.18	201	0.134	3	2.25	0.018	0.07	0.4	0.03	4.4	0.1	<0.05	7	<0.5	<0.2
10033	Soil	112	1.29	150	0.134	<1	2.46	0.017	0.06	0.3	0.03	6.0	0.1	<0.05	7	<0.5	<0.2
10034	Soil	141	1.45	148	0.142	<1	1.94	0.021	0.07	0.3	0.01	5.3	0.1	<0.05	7	<0.5	<0.2
10035	Soil	137	1.28	203	0.094	3	1.82	0.033	0.07	0.2	0.04	4.7	0.2	<0.05	6	<0.5	<0.2
10036	Soil	133	1.36	219	0.090	4	2.05	0.028	0.06	0.3	0.02	4.7	0.2	<0.05	8	<0.5	<0.2
10037	Soil	139	1.33	279	0.098	2	1.86	0.033	0.06	0.3	0.02	5.4	0.2	<0.05	5	<0.5	<0.2
10038	Soil	132	1.22	167	0.103	2	2.21	0.017	0.06	0.3	0.03	5.9	0.2	<0.05	6	<0.5	<0.2
10039	Soil	112	1.19	164	0.118	3	2.00	0.017	0.06	0.3	0.02	5.2	0.1	<0.05	7	<0.5	<0.2
10040	Soil	111	0.99	186	0.083	4	1.75	0.015	0.06	0.2	0.03	3.1	<0.1	<0.05	6	<0.5	<0.2
10953	Soil	153	1.26	243	0.104	8	1.84	0.024	0.04	0.4	0.02	5.0	0.1	<0.05	5	<0.5	<0.2
10954	Soil	151	1.41	198	0.108	6	1.58	0.014	0.04	0.3	0.02	4.3	0.1	<0.05	5	<0.5	<0.2
10955	Soil	66	0.88	172	0.092	5	1.56	0.013	0.06	0.4	0.02	3.9	0.1	<0.05	5	<0.5	<0.2

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

**CERTIFICATE OF ANALYSIS**

**WHI13000577.1**

Method	Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
10444	Soil		3.9	45.2	11.9	88	<0.1	85.8	11.8	414	2.31	47.5	14.1	0.3	23	0.3	0.5	0.3	69	0.48	0.088	8
10445	Soil		0.8	102.5	9.5	64	<0.1	50.4	23.8	681	3.87	360.8	7.8	1.3	29	0.2	0.4	0.3	78	0.64	0.059	8
10446	Soil		0.5	120.0	4.8	88	0.2	114.2	48.2	773	4.29	199.3	24.2	0.3	37	0.3	0.3	<0.1	105	0.77	0.050	2
10447	Soil		2.2	74.7	24.8	65	<0.1	50.3	11.4	391	3.04	55.2	<0.5	0.7	35	0.6	0.7	0.2	98	0.41	0.036	6
2759	Soil		1.8	60.2	13.4	63	0.3	67.3	15.5	822	1.97	72.1	10.0	0.3	40	0.3	0.8	0.2	60	0.93	0.087	11
2780	Soil		2.4	69.0	19.1	78	0.2	111.8	17.2	378	2.54	21.3	4.6	1.9	27	0.4	0.6	0.2	75	0.52	0.048	9
2781	Soil		0.4	77.9	6.3	80	<0.1	149.5	48.2	1257	5.88	58.2	3.3	0.7	39	0.2	0.7	0.2	198	0.74	0.028	3
2782	Soil		0.9	78.4	3.4	30	0.2	19.4	28.9	780	1.07	32.8	6.3	<0.1	19	0.4	0.2	0.7	24	0.21	0.073	4
25487	Soil		5.0	63.9	27.6	392	0.2	188.7	37.8	848	4.91	41.4	2.2	5.4	71	5.1	5.1	0.2	90	10.52	0.308	83



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Project: Jubilee  
 Report Date: January 20, 2014

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**CERTIFICATE OF ANALYSIS**

**WHI13000577.1**

Method	1DX15		1DX15		1DX15		1DX15		1DX15		1DX15		1DX15		1DX15		1DX15	
	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te		
Analyte	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2		
10444	Soil	92	0.99	144	0.080	2	1.76	0.024	0.10	0.3	0.02	2.6	0.1	0.05	8	<0.5	<0.2	
10445	Soil	62	0.99	110	0.133	2	1.89	0.010	0.05	0.3	0.03	4.7	0.1	<0.05	8	<0.5	<0.2	
10446	Soil	180	1.96	94	0.130	2	3.37	0.009	0.08	0.5	0.02	4.2	<0.1	<0.05	10	<0.5	<0.2	
10447	Soil	81	1.05	460	0.216	1	2.35	0.020	0.32	0.3	0.02	5.1	0.6	<0.05	10	<0.5	<0.2	
2759	Soil	70	0.69	208	0.057	6	2.31	0.022	0.09	0.3	0.05	2.4	0.2	<0.05	5	0.9	<0.2	
2760	Soil	103	1.25	207	0.130	4	2.11	0.039	0.11	0.3	0.03	5.3	0.3	<0.05	6	<0.5	<0.2	
2761	Soil	176	3.92	130	0.268	2	4.14	0.005	0.09	0.5	0.01	16.8	<0.1	<0.05	13	<0.5	<0.2	
2762	Soil	18	0.21	67	0.022	<1	0.80	0.017	0.03	0.3	0.02	0.4	0.1	<0.05	3	<0.5	<0.2	
25487	Soil	108	0.99	259	0.116	<1	2.51	0.008	0.09	0.3	0.27	10.8	0.7	<0.05	7	0.7	<0.2	

QUALITY CONTROL REPORT

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																							
24504	Soil			0.7	17.9	6.4	32	<0.1	259.6	22.3	339	2.55	7.6	<0.5	2.1	18	<0.1	0.5	0.1	51	0.25	0.013	8
REP 24504	QC			0.7	18.2	6.5	36	<0.1	268.3	23.9	347	2.62	8.1	2.2	2.2	17	<0.1	0.4	0.1	52	0.26	0.013	8
24685	Soil			1.3	108.0	8.8	89	0.2	137.1	19.8	292	2.83	8.4	1.6	2.3	16	0.2	0.1	1.1	88	0.15	0.022	7
REP 24685	QC			1.3	110.2	8.7	92	0.2	139.5	20.4	306	2.98	8.9	2.3	2.4	16	0.3	0.2	1.1	90	0.16	0.022	7
24264	Soil			0.8	80.1	8.9	59	0.1	244.1	31.2	743	3.84	19.7	16.5	2.4	30	0.2	1.2	0.3	101	0.49	0.090	9
REP 24264	QC			0.8	83.1	9.0	61	0.1	244.8	31.2	750	3.53	19.6	12.6	2.3	32	0.3	1.2	0.3	105	0.50	0.092	9
R2-S0-006	Soil			0.8	15.1	8.7	32	<0.1	43.1	10.4	251	1.58	5.0	2.3	1.0	14	0.3	0.4	0.1	46	0.22	0.031	8
REP R2-S0-006	QC			0.8	15.1	7.8	29	<0.1	45.8	10.2	248	1.54	4.7	41.9	1.0	14	0.2	0.4	0.1	48	0.23	0.030	8
R2-S0-009	Soil			0.4	11.4	4.9	31	<0.1	17.1	5.1	188	1.41	5.8	4.8	3.8	45	0.3	0.4	<0.1	36	5.74	0.065	13
REP R2-S0-009	QC			0.4	10.0	4.3	26	<0.1	14.8	4.1	158	1.13	4.5	2.3	3.0	33	0.2	0.4	<0.1	25	5.13	0.050	10
24423	Soil			1.0	88.4	11.0	96	0.3	159.8	36.8	906	3.93	10.1	<0.5	1.8	28	0.7	0.4	1.0	85	1.12	0.078	11
REP 24423	QC			1.2	88.5	10.4	101	0.3	156.1	36.3	909	3.76	11.0	0.8	1.7	26	0.8	0.4	1.0	84	1.14	0.068	11
24484	Soil			1.7	114.4	72.1	231	0.3	91.7	23.9	818	4.18	8.2	1.7	1.1	49	0.8	0.6	2.0	94	0.45	0.062	8
REP 24484	QC			1.6	104.7	69.5	223	0.3	87.0	22.6	824	4.00	8.2	0.9	1.1	50	1.0	0.5	1.9	89	0.45	0.068	8
24606	Soil			2.9	136.0	68.2	221	0.5	72.5	20.4	796	3.59	11.5	2.2	3.2	51	1.0	0.6	2.2	86	0.47	0.054	11
REP 24606	QC			3.1	136.8	68.6	219	0.5	74.9	21.2	784	3.55	11.4	1.5	3.3	52	0.9	0.5	2.2	86	0.47	0.053	11
24266	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
REP 24266	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
24395	Soil			1.0	87.9	54.4	142	0.1	204.3	23.0	528	3.05	27.7	<0.5	4.7	19	0.5	0.6	1.0	71	0.34	0.039	13
REP 24395	QC			1.0	94.1	57.5	147	0.1	217.8	23.8	553	3.21	28.4	1.2	4.7	19	0.6	0.6	1.0	74	0.36	0.038	13
10034	Soil			0.7	62.5	11.2	65	<0.1	99.3	17.0	329	3.21	41.7	12.3	2.1	28	0.2	0.5	0.3	86	0.51	0.029	8
REP 10034	QC			0.7	64.3	11.2	69	0.1	108.1	18.3	338	3.40	41.0	6.3	2.2	27	0.3	0.5	0.3	87	0.49	0.028	7
25487	Soil			5.0	63.9	27.6	392	0.2	186.7	37.6	848	4.91	41.4	2.2	5.4	71	5.1	5.1	0.2	90	10.52	0.308	83
REP 25487	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
Reference Materials																							
STD DS10	Standard			14.5	152.5	153.9	362	2.1	74.9	12.1	837	2.59	42.6	77.2	7.3	63	2.4	8.7	11.1	43	1.03	0.073	17
STD DS10	Standard			15.2	160.5	152.6	355	2.0	72.7	12.0	870	2.67	44.5	67.2	7.6	62	2.7	8.9	11.4	43	1.00	0.077	18
STD DS10	Standard			15.9	154.4	149.5	344	2.1	74.3	12.6	824	2.49	43.9	67.9	8.0	64	2.8	8.8	10.7	44	1.01	0.072	18



**QUALITY CONTROL REPORT**

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Method	Analyte	Unit	MDL	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16		
				Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
<b>Pulp Duplicates</b>																			
24504	Soil			85	1.42	220	0.075	2	1.55	0.016	0.06	0.2	0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
REP 24504	QC			89	1.46	225	0.077	3	1.50	0.016	0.06	0.2	0.01	4.5	0.1	<0.05	4	<0.5	<0.2
24685	Soil			107	1.33	164	0.156	<1	2.32	0.020	0.31	1.5	0.01	6.3	0.7	<0.05	7	<0.5	<0.2
REP 24685	QC			110	1.38	162	0.161	<1	2.40	0.020	0.31	1.6	<0.01	6.5	0.6	<0.05	7	0.6	<0.2
24264	Soil			286	2.53	182	0.141	1	2.86	0.030	0.09	0.2	0.02	8.0	0.2	<0.05	8	<0.5	<0.2
REP 24264	QC			291	2.41	182	0.133	5	2.83	0.029	0.10	0.3	0.02	7.9	0.2	<0.05	8	0.6	<0.2
R2-S0-006	Soil			41	0.44	173	0.069	2	1.18	0.014	0.04	0.2	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
REP R2-S0-006	QC			40	0.43	171	0.072	2	1.14	0.014	0.04	0.3	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
R2-S0-009	Soil			26	1.01	109	0.051	2	0.64	0.018	0.05	0.2	0.02	2.2	<0.1	<0.05	2	<0.5	<0.2
REP R2-S0-009	QC			21	0.89	82	0.037	<1	0.54	0.011	0.04	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
24423	Soil			74	1.70	143	0.113	4	2.85	0.011	0.06	1.8	0.06	6.7	0.3	0.09	6	0.9	<0.2
REP 24423	QC			76	1.62	150	0.111	5	2.77	0.010	0.06	1.8	0.06	6.4	0.3	0.06	6	<0.5	<0.2
24484	Soil			75	1.29	286	0.181	1	3.23	0.026	0.34	0.8	0.07	5.2	1.6	<0.05	10	<0.5	<0.2
REP 24484	QC			73	1.28	278	0.173	1	3.33	0.026	0.36	0.8	0.03	5.2	1.7	<0.05	9	0.8	<0.2
24606	Soil			77	1.13	228	0.204	1	3.08	0.029	0.39	1.9	0.03	6.0	1.8	<0.05	9	<0.5	<0.2
REP 24606	QC			77	1.19	224	0.195	2	3.12	0.031	0.39	2.1	0.03	5.7	1.8	<0.05	9	<0.5	<0.2
24266	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
REP 24266	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
24395	Soil			128	1.56	218	0.165	2	2.69	0.021	0.19	1.0	<0.01	5.3	0.6	<0.05	7	<0.5	<0.2
REP 24395	QC			130	1.66	224	0.168	1	2.80	0.025	0.20	1.0	0.02	5.4	0.5	<0.05	8	<0.5	<0.2
10034	Soil			141	1.45	148	0.142	<1	1.94	0.021	0.07	0.3	0.01	5.3	0.1	<0.05	7	<0.5	<0.2
REP 10034	QC			140	1.49	145	0.152	3	2.02	0.023	0.07	0.4	0.01	5.7	0.1	<0.05	7	<0.5	<0.2
25487	Soil			108	0.99	259	0.116	<1	2.51	0.008	0.09	0.3	0.27	10.8	0.7	<0.05	7	0.7	<0.2
REP 25487	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
<b>Reference Materials</b>																			
STD DS10	Standard			56	0.74	333	0.078	6	0.96	0.064	0.31	3.2	0.28	2.8	4.7	0.29	4	2.4	4.5
STD DS10	Standard			52	0.76	320	0.080	7	1.01	0.065	0.31	3.2	0.33	3.0	4.9	0.27	4	3.1	5.1
STD DS10	Standard			53	0.82	350	0.080	8	1.06	0.063	0.32	3.4	0.27	2.9	5.0	0.24	4	3.3	5.5



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Project: Jubilee  
 Report Date: January 20, 2014

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		1DX16	1DX15	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD DS10	Standard	14.6	152.4	153.7	355	2.1	73.7	12.7	858	2.72	45.8	73.9	7.5	65	2.4	9.2	11.5	45	1.02	0.077	18
STD DS10	Standard	14.9	151.1	145.7	353	1.9	71.2	12.4	893	2.77	45.5	74.5	7.2	71	2.5	9.3	12.0	42	1.04	0.077	18
STD DS10	Standard	13.1	146.9	142.9	352	2.0	74.0	12.1	835	2.68	42.4	72.1	6.8	65	2.7	8.7	11.9	42	1.00	0.073	16
STD DS10	Standard	13.7	146.4	142.5	349	1.9	71.0	11.7	843	2.62	43.1	83.3	7.0	66	2.4	8.8	11.3	41	0.99	0.073	17
STD DS10	Standard	14.9	153.3	154.4	359	2.0	74.8	12.6	849	2.91	43.9	96.7	8.0	64	2.6	8.8	11.0	42	1.01	0.071	19
STD DS10	Standard	14.8	149.6	145.5	338	2.3	68.9	11.9	883	2.69	46.1	83.9	7.4	70	2.4	9.1	12.2	39	1.02	0.074	18
STD DS10	Standard	15.4	157.3	150.4	365	2.0	79.0	13.6	938	3.01	46.4	86.6	8.0	72	2.4	9.4	11.9	48	1.08	0.071	17
STD DS10	Standard	14.1	146.5	149.1	355	2.0	73.4	12.5	886	2.74	45.4	75.2	7.3	67	2.5	8.5	11.9	43	1.01	0.072	18
STD DS10	Standard	14.4	149.0	152.1	340	1.9	71.6	12.7	827	2.60	42.3	77.3	7.4	64	2.5	8.8	11.8	43	1.01	0.074	17
STD OXC109	Standard	1.4	36.7	11.8	39	<0.1	70.0	19.4	412	2.72	<0.5	204.9	1.5	140	<0.1	<0.1	<0.1	47	0.72	0.106	12
STD OXC109	Standard	1.6	35.4	11.5	41	<0.1	69.9	19.0	415	2.88	0.6	197.7	1.4	134	<0.1	<0.1	<0.1	46	0.68	0.110	12
STD OXC109	Standard	1.6	35.7	11.7	41	<0.1	72.6	20.0	421	2.82	<0.5	200.8	1.5	140	<0.1	<0.1	<0.1	51	0.76	0.108	13
STD OXC109	Standard	1.3	36.0	11.1	39	<0.1	72.5	20.4	417	2.93	<0.5	197.7	1.5	125	<0.1	<0.1	<0.1	48	0.65	0.103	13
STD OXC109	Standard	1.4	34.1	10.5	40	<0.1	70.3	18.4	401	2.83	<0.5	205.7	1.4	141	<0.1	<0.1	<0.1	46	0.68	0.110	12
STD OXC109	Standard	1.3	35.2	10.4	39	<0.1	69.8	17.9	395	2.81	<0.5	210.4	1.4	138	<0.1	<0.1	0.1	47	0.65	0.100	12
STD OXC109	Standard	1.4	36.1	10.8	39	<0.1	70.5	18.6	403	2.81	<0.5	208.1	1.3	139	<0.1	<0.1	<0.1	47	0.71	0.104	13
STD OXC109	Standard	1.4	34.7	11.0	39	<0.1	71.6	18.9	378	2.71	<0.5	201.0	1.4	128	<0.1	<0.1	<0.1	46	0.68	0.107	12
STD OXC109	Standard	1.3	35.3	9.9	41	<0.1	67.7	18.0	414	2.84	1.1	202.0	1.4	138	<0.1	<0.1	<0.1	46	0.68	0.106	12
STD OXC109	Standard	1.6	35.4	10.8	39	<0.1	74.5	19.4	430	2.99	1.0	201.7	1.5	137	<0.1	<0.1	<0.1	49	0.75	0.094	12
STD OXC109	Standard	1.4	34.7	10.7	41	<0.1	69.5	18.7	408	2.90	0.6	212.5	1.4	149	<0.1	<0.1	<0.1	47	0.69	0.102	13
STD OXC109	Standard	1.6	36.1	10.6	39	<0.1	69.9	18.9	378	2.73	<0.5	186.2	1.5	136	<0.1	<0.1	<0.1	47	0.61	0.104	12
STD DS10 Expected		14.69	154.61	150.55	352.9	1.96	74.6	12.9	861	2.7188	43.7	91.9	7.5	67.1	2.48	7.8	11.65	43	1.0355	0.073	17.5
STD OXC109 Expected		201																			
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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.

**QUALITY CONTROL REPORT**

**WHI13000577.1**

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS10	Standard	55	0.80	343	0.080	6	1.04	0.063	0.34	3.3	0.28	2.9	5.0	0.25	4	2.1	4.5
STD DS10	Standard	54	0.79	358	0.084	7	1.09	0.069	0.34	3.2	0.28	3.1	4.8	0.29	4	2.3	5.1
STD DS10	Standard	53	0.75	349	0.078	7	0.98	0.063	0.32	3.0	0.33	2.9	4.7	0.26	4	2.1	4.8
STD DS10	Standard	53	0.74	335	0.077	7	1.00	0.064	0.31	3.2	0.30	2.7	4.7	0.26	4	2.3	4.5
STD DS10	Standard	53	0.80	331	0.083	5	1.05	0.066	0.32	3.3	0.31	2.9	5.0	0.25	5	1.9	5.2
STD DS10	Standard	54	0.74	359	0.081	6	1.03	0.068	0.32	3.3	0.31	3.1	5.1	0.22	4	2.4	5.2
STD DS10	Standard	59	0.73	353	0.092	5	1.03	0.058	0.35	3.4	0.31	3.6	5.0	0.30	5	2.6	5.4
STD DS10	Standard	55	0.77	336	0.079	6	0.99	0.063	0.33	3.3	0.31	2.8	5.0	0.23	4	2.8	5.0
STD DS10	Standard	54	0.73	346	0.078	7	0.97	0.063	0.32	3.5	0.29	2.8	4.7	0.26	4	2.2	4.7
STD OXC109	Standard	60	1.46	55	0.358	<1	1.53	0.676	0.41	0.2	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
STD OXC109	Standard	56	1.40	56	0.370	5	1.46	0.637	0.41	0.2	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
STD OXC109	Standard	61	1.49	59	0.385	2	1.59	0.674	0.42	0.2	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
STD OXC109	Standard	57	1.47	55	0.388	<1	1.50	0.617	0.40	0.2	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
STD OXC109	Standard	54	1.40	56	0.381	1	1.45	0.697	0.43	0.2	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
STD OXC109	Standard	56	1.41	56	0.364	<1	1.44	0.642	0.38	0.2	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
STD OXC109	Standard	57	1.43	56	0.379	1	1.49	0.661	0.41	0.2	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
STD OXC109	Standard	58	1.42	53	0.345	<1	1.46	0.620	0.39	0.2	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
STD OXC109	Standard	56	1.37	58	0.376	1	1.50	0.640	0.41	0.2	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
STD OXC109	Standard	59	1.36	53	0.402	<1	1.42	0.594	0.41	0.2	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
STD OXC109	Standard	58	1.40	56	0.362	2	1.46	0.672	0.42	0.2	<0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
STD OXC109	Standard	58	1.35	56	0.367	<1	1.45	0.662	0.37	0.2	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
STD DS10 Expected		54.6	0.7651	349	0.0817		1.0259	0.0638	0.3245	3.34	0.289	2.8	4.79	0.2743	4.3	2.3	4.89
STD OXC109 Expected																	
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.06	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

**QUALITY CONTROL REPORT**

**WHI13000577.1**

		1DX16	1DX15	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

**QUALITY CONTROL REPORT**

**WHI13000577.1**

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

**Client:** All-In Exploration Solutions Inc.  
113A Platinum Rd.  
Whitehorse YT Y1A 5M3 CANADA

Submitted By: Ed Long/Riley Gibson  
Receiving Lab: Canada-Whitehorse  
Received: December 17, 2013  
Report Date: January 20, 2014  
Page: 1 of 3

## CERTIFICATE OF ANALYSIS

WHI13000578.1

### CLIENT JOB INFORMATION

Project: Dun/Jubilee  
Shipment ID: Batch #3  
P.O. Number  
Number of Samples: 43

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-500	43	Crush, split and pulverize 500 g rock to 200 mesh			VAN
G801	43	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
1DX2	43	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

### SAMPLE DISPOSAL

RTRN-PLP Return  
RTRN-RJT Return

### ADDITIONAL COMMENTS

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

Invoice To: All-In Exploration Solutions Inc.  
113A Platinum Rd.  
Whitehorse YT Y1A 5M3  
CANADA

CC:



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

CERTIFICATE OF ANALYSIS

WHI13000578.1

Method	WGHT	G6	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
13NG002	Rock	1.91	0.007	0.2	443.8	131.6	739	4.4	125.5	19.2	6983	1.47	342.1	0.9	<0.1	562	10.4	9.9	0.7	18	32.45
13NG003	Rock	2.23	<0.005	0.3	119.0	1.8	89	0.1	75.5	23.9	1274	4.38	1.4	<0.5	1.7	18	0.2	0.2	<0.1	79	0.56
13NG004	Rock	0.95	0.008	0.4	188.7	1.1	82	<0.1	38.5	36.6	656	5.34	1.3	<0.5	0.2	14	<0.1	0.1	<0.1	88	0.79
13NG007	Rock	1.52	0.092	0.3	129.1	0.9	70	<0.1	25.7	25.4	741	6.21	<0.5	52.8	0.2	19	0.2	0.2	<0.1	166	1.51
13NG008	Rock	2.29	0.005	<0.1	160.3	0.6	70	<0.1	82.5	43.2	1064	6.95	5.4	0.5	0.2	122	0.1	0.2	<0.1	262	5.52
13NG009	Rock	2.50	<0.005	0.2	80.0	6.0	52	<0.1	43.9	21.2	6250	4.54	6.2	0.7	0.6	92	0.2	0.5	0.1	138	5.34
13NG010	Rock	1.70	0.008	0.2	43.7	3.6	29	<0.1	21.2	6.3	3459	2.09	1.4	<0.5	0.4	92	<0.1	0.3	<0.1	23	5.36
13NG011	Rock	1.34	<0.005	0.2	63.3	6.0	32	<0.1	17.0	2.7	1821	1.70	11.7	<0.5	0.8	8	0.1	0.1	<0.1	18	0.13
13NG012	Rock	1.75	0.008	0.4	105.7	5.8	30	0.1	35.0	8.2	373	0.84	4.5	0.6	0.9	4	1.2	1.3	0.2	4	0.12
13NG013	Rock	2.39	<0.005	1.4	62.0	3.8	24	<0.1	39.4	9.5	485	0.62	2.4	<0.5	0.5	2	<0.1	0.6	<0.1	4	0.08
13NG014	Rock	2.30	<0.005	1.7	124.1	4.9	11	<0.1	10.7	6.0	153	2.04	<0.5	3.0	1.7	4	<0.1	0.2	<0.1	61	0.39
13NG015	Rock	2.13	0.008	0.3	7.9	0.6	5	<0.1	2.6	0.6	75	0.54	1.8	<0.5	0.1	<1	<0.1	0.2	<0.1	3	0.01
13NG016	Rock	1.76	<0.005	0.4	2.8	2.5	82	<0.1	15.9	7.0	1878	2.29	2.0	<0.5	1.5	277	0.4	0.6	0.4	32	2.80
13NG017	Rock	1.74	0.279	2.0	5509.5	6.8	3319	18.9	21.0	257.0	715	10.40	248.2	289.9	0.7	126	48.2	2.5	15.8	15	1.92
13NG018	Rock	2.10	0.009	24.8	64.2	41.0	9	0.8	1.1	0.2	52	0.64	16.4	5.3	14.2	3	<0.1	0.1	1.8	<2	0.04
13NG020	Rock	2.59	0.012	40.1	129.1	9.8	105	0.6	73.6	16.1	228	2.17	5.9	7.9	3.0	30	1.2	0.9	0.4	163	0.86
13NG021	Rock	0.36	0.008	48.0	>10000	>10000	4241	66.7	69.2	1433.2	>10000	2.05	7174.2	5.1	1.8	10	15.7	61.4	2.0	30	0.05
Rz-Rx-001	Rock	1.92	<0.005	0.1	3.8	3.5	12	<0.1	0.7	0.7	26	0.01	2.4	3.3	<0.1	102	1.1	<0.1	<0.1	2	30.88
Rz-Rx-002	Rock	2.87	<0.005	<0.1	23.1	3.8	20	<0.1	1535.1	77.2	573	3.99	3.7	<0.5	<0.1	<1	<0.1	<0.1	<0.1	8	0.05
Rz-Rx-003	Rock	1.90	<0.005	0.4	3.7	2.8	38	<0.1	19.2	1.7	110	0.60	12.3	1.3	1.0	14	1.0	2.0	<0.1	12	31.42
Rz-Rx-004	Rock	2.22	<0.005	0.2	2.6	1.2	25	<0.1	9.0	2.3	115	0.48	2.5	<0.5	0.4	103	1.8	0.4	<0.1	7	35.03
Rz-Rx-005	Rock	2.07	<0.005	<0.1	2.1	1.7	44	<0.1	4.4	0.3	14	0.03	1.3	<0.5	<0.1	23	1.9	<0.1	<0.1	<2	36.46
13NG005	Rock	2.85	<0.005	0.1	2.3	1.1	30	<0.1	13.3	0.7	44	0.16	2.9	<0.5	0.3	80	1.5	0.7	<0.1	3	35.52
13NG006	Rock	2.56	0.013	0.2	2.5	1.0	36	<0.1	10.9	1.5	76	0.56	5.2	10.3	0.2	16	0.6	1.4	<0.1	13	33.32
13SH001	Rock	5.86	0.035	19.9	14.2	14.0	3109	0.7	3.1	10.0	>10000	22.20	12.7	26.1	<0.1	14	23.0	0.6	9.1	3	3.66
13SH002	Rock	1.59	<0.005	4.0	9.1	15.8	79	0.2	1.0	0.4	418	0.67	2.7	<0.5	11.8	33	0.9	0.2	0.4	3	3.94
ST8	Rock	1.91	<0.005	0.4	166.6	3.8	57	0.2	34.3	19.1	440	3.18	1.7	<0.5	<0.1	57	0.2	0.2	<0.1	63	1.62
ST9	Rock	1.33	<0.005	0.3	67.6	1.0	79	<0.1	89.8	26.2	922	4.15	<0.5	<0.5	2.2	52	0.5	<0.1	<0.1	62	1.77
Rx-001	Rock	2.26	0.233	<0.1	43.1	9.2	61	0.3	16.3	3.5	300	1.15	1.9	104.6	2.6	94	0.2	0.2	12.5	18	1.90
13DUN-001Rx	Rock	2.60	0.008	0.8	36.0	6.2	96	<0.1	59.6	17.4	372	3.05	12.6	6.7	2.7	14	<0.1	0.1	0.4	36	0.19

Acme Analytical Laboratories (Vancouver) Ltd.

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Whitehorse YT Y1A 5M3 CANADA

Project: Dun/Jubilee  
Report Date: January 20, 2014

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# CERTIFICATE OF ANALYSIS

WHI13000578.1

Method	Analyte	Unit	MDL	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16		
				P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
13NG002	Rock			0.003	16	242	0.80	10	0.004	1	0.56	0.005	<0.01	<0.1	<0.01	10.9	<0.1	<0.05	2	<0.5	<0.2
13NG003	Rock			0.029	7	45	1.88	24	0.159	3	2.55	0.015	0.02	0.2	<0.01	9.9	<0.1	<0.05	6	<0.5	<0.2
13NG004	Rock			0.060	3	32	1.85	19	0.249	2	2.32	0.071	0.03	0.4	<0.01	3.0	<0.1	0.58	6	0.8	<0.2
13NG007	Rock			0.054	2	19	1.78	80	0.271	4	3.08	0.041	0.05	0.1	0.01	6.2	<0.1	0.16	11	1.4	<0.2
13NG008	Rock			0.048	2	227	3.49	60	0.403	9	4.63	0.021	0.08	<0.1	<0.01	22.0	<0.1	<0.05	14	<0.5	<0.2
13NG009	Rock			0.019	5	18	0.89	652	0.032	<1	1.25	0.004	0.18	<0.1	<0.01	7.1	<0.1	<0.05	4	0.8	<0.2
13NG010	Rock			0.013	3	11	0.45	127	0.020	1	0.69	0.002	0.06	<0.1	<0.01	2.9	<0.1	<0.05	2	<0.5	<0.2
13NG011	Rock			0.009	5	10	0.49	107	0.002	<1	0.64	<0.001	0.04	<0.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
13NG012	Rock			0.054	10	6	0.03	64	<0.001	<1	0.14	0.001	0.06	<0.1	<0.01	1.4	<0.1	<0.05	<1	<0.5	0.2
13NG013	Rock			0.038	5	7	0.12	45	<0.001	<1	0.16	<0.001	0.03	<0.1	<0.01	1.3	<0.1	<0.05	<1	<0.5	<0.2
13NG014	Rock			0.006	3	25	0.31	30	0.246	3	0.67	0.012	0.10	<0.1	<0.01	7.7	<0.1	0.12	4	1.0	<0.2
13NG015	Rock			0.003	<1	12	0.05	10	0.002	<1	0.08	<0.001	0.02	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
13NG016	Rock			0.202	15	32	0.49	84	0.145	2	2.37	0.207	0.29	1.0	<0.01	3.0	0.4	<0.05	5	<0.5	<0.2
13NG017	Rock			0.102	9	3	0.24	9	0.162	<1	0.59	0.011	0.02	0.6	0.04	0.9	0.3	5.18	2	13.3	1.4
13NG018	Rock			0.006	15	3	0.01	14	0.009	<1	0.24	0.043	0.08	0.3	<0.01	0.7	<0.1	<0.05	1	<0.5	<0.2
13NG020	Rock			0.157	6	35	0.48	113	0.035	<1	1.65	0.016	0.40	0.2	<0.01	4.4	0.7	0.77	6	3.1	<0.2
13NG021	Rock			0.027	9	9	0.02	5999	0.001	<1	0.35	<0.001	0.05	4.7	0.11	2.1	26.1	<0.05	4	<0.5	<0.2
Rz-Rx-001	Rock			0.005	6	6	0.19	36	<0.001	1	<0.01	0.002	<0.01	<0.1	0.02	0.1	<0.1	<0.05	<1	<0.5	<0.2
Rz-Rx-002	Rock			0.001	<1	347	10.80	5	<0.001	14	0.21	0.001	<0.01	0.3	<0.01	10.2	<0.1	0.07	<1	<0.5	<0.2
Rz-Rx-003	Rock			0.010	3	29	0.12	18	0.002	<1	0.10	0.003	0.03	0.2	0.06	0.9	<0.1	<0.05	<1	<0.5	<0.2
Rz-Rx-004	Rock			0.016	5	13	0.16	15	0.004	<1	0.05	0.002	<0.01	<0.1	0.06	1.5	<0.1	<0.05	<1	<0.5	<0.2
Rz-Rx-005	Rock			0.003	3	2	0.14	6	<0.001	<1	0.01	<0.001	<0.01	<0.1	0.08	0.3	<0.1	<0.05	<1	<0.5	<0.2
13NG005	Rock			0.016	5	14	0.17	15	0.001	<1	0.08	0.001	<0.01	<0.1	0.17	0.7	<0.1	<0.05	<1	<0.5	<0.2
13NG006	Rock			0.021	2	7	0.41	7	0.001	<1	0.04	<0.001	<0.01	0.2	0.16	0.5	<0.1	0.05	<1	<0.5	<0.2
13SH001	Rock			0.004	1	2	0.42	32	0.001	4	0.17	0.008	<0.01	15.1	0.02	0.9	0.1	<0.05	3	<0.5	<0.2
13SH002	Rock			0.019	31	1	0.06	34	0.042	3	0.44	0.063	0.06	0.5	<0.01	0.9	<0.1	<0.05	1	<0.5	<0.2
ST8	Rock			0.035	<1	33	1.31	101	0.131	2	3.25	0.298	0.20	0.1	<0.01	2.8	<0.1	<0.05	7	<0.5	<0.2
ST9	Rock			0.172	16	77	2.83	222	0.188	2	2.84	0.041	0.33	0.3	<0.01	4.3	<0.1	<0.05	8	<0.5	<0.2
Rx-001	Rock			0.323	26	4	0.30	47	0.089	<1	1.01	0.164	0.14	0.2	<0.01	1.4	<0.1	<0.05	3	<0.5	1.4
13DUN-001Rx	Rock			0.060	28	39	0.83	66	0.024	<1	1.51	0.038	0.13	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2



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**Project:** Dun/Jubilee  
**Report Date:** January 20, 2014

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## CERTIFICATE OF ANALYSIS

WHI13000578.1

Method	Analyte	WGHT	G8	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1902	Rock	0.32	<0.005	1.1	28.6	4.5	48	0.2	10.3	6.5	279	2.51	3.0	<0.5	3.6	15	0.1	0.2	0.2	45	0.07
25489	Rock	0.40	0.013	11.1	664.6	17.0	28	7.9	2.7	16.6	174	>40	97.3	9.2	1.4	6	0.2	1.2	15.4	17	0.12
25492	Rock	2.98	0.063	1.1	14.9	0.7	1385	0.1	2.2	24.5	4667	3.04	17.4	53.8	0.2	41	14.4	0.5	26.4	2	5.40
25494	Rock	1.23	0.006	0.3	205.0	1.1	50	0.2	41.2	29.9	272	3.47	1.2	<0.5	0.1	42	<0.1	0.1	0.8	66	1.06
RG01	Rock	4.88	<0.005	0.3	110.3	5.2	19	0.3	110.2	18.8	199	1.96	2.2	<0.5	0.1	75	0.3	0.4	0.3	5	0.59
RG02	Rock	0.46	0.015	0.1	4.8	1.7	145	<0.1	2.6	8.6	7256	4.24	2.4	9.7	1.6	128	0.5	2.7	7.9	24	4.55
RG03	Rock	0.96	0.074	5.3	69.5	3.6	6043	0.7	6.4	24.7	1737	3.95	56.7	74.4	1.1	46	73.8	0.7	54.9	6	1.78
RG04	Rock	0.41	0.011	1.8	56.1	1.5	797	0.1	2.0	16.2	4741	3.87	15.4	10.2	0.4	42	4.8	0.7	9.5	5	1.48
RG06	Rock	0.35	0.143	0.2	2.9	3.0	122	<0.1	1.6	7.1	6624	3.25	3.2	110.8	1.4	133	0.7	2.2	53.7	17	3.62
RG07	Rock	0.27	0.108	0.2	2.9	1.9	241	<0.1	1.7	13.7	>10000	5.41	4.6	99.8	0.7	101	1.0	2.2	62.4	12	5.03
RG08	Rock	0.51	0.242	0.2	20.0	2.1	>10000	0.5	1.7	43.3	>10000	5.08	6.0	216.3	1.1	69	242.2	3.5	51.2	15	5.41
RG09	Rock	0.31	0.102	0.2	10.6	1.6	7260	0.2	1.9	28.7	>10000	7.25	6.1	110.4	0.6	65	45.7	2.1	83.0	15	6.46
RG10	Rock	0.31	<0.005	<0.1	3.4	3.4	149	<0.1	3.8	3.6	3049	1.21	1.2	2.6	0.8	419	1.6	1.0	0.8	14	21.62

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**Project:** Dun/Jubilee  
**Report Date:** January 20, 2014

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## CERTIFICATE OF ANALYSIS

WHI13000578.1

Method	Analyte	1DX16	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		P	La	Cr	Mg	Ba	Tl	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		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1902	Rock	0.073	5	33	0.68	122	0.064	<1	1.42	0.029	0.43	<0.1	<0.01	3.4	0.2	<0.05	5	<0.5	<0.2
25489	Rock	0.031	4	2	0.18	10	0.116	<1	0.36	0.004	0.11	1.4	0.02	0.5	1.0	3.74	7	56.8	1.5
25492	Rock	0.021	3	1	0.37	4	0.023	<1	0.15	0.003	0.02	18.9	<0.01	1.3	0.1	0.17	<1	<0.5	0.5
25494	Rock	0.047	2	48	0.98	103	0.119	2	2.37	0.239	0.41	0.1	<0.01	3.6	0.4	0.55	7	1.0	<0.2
RG01	Rock	0.019	<1	55	0.24	9	0.034	1	0.64	0.032	0.05	0.1	<0.01	1.0	0.1	0.34	1	0.9	<0.2
RG02	Rock	0.251	21	2	0.59	150	0.123	4	1.96	0.027	0.04	4.4	<0.01	1.7	<0.1	<0.05	4	<0.5	0.3
RG03	Rock	0.112	9	1	0.32	4	0.127	<1	0.53	0.004	0.01	10.6	0.28	0.7	<0.1	0.33	2	6.7	1.0
RG04	Rock	0.059	7	<1	0.32	53	0.062	2	0.31	0.008	0.03	1.7	0.01	0.7	<0.1	<0.05	1	<0.5	0.4
RG06	Rock	0.145	15	1	0.39	71	0.148	6	1.01	0.007	0.02	13.8	<0.01	0.9	<0.1	<0.05	3	<0.5	2.0
RG07	Rock	0.043	9	1	0.39	77	0.153	2	0.58	0.013	0.02	20.3	0.02	1.1	<0.1	<0.05	2	<0.5	2.6
RG08	Rock	0.080	13	1	0.35	53	0.178	3	0.62	0.015	0.02	10.4	0.10	1.1	<0.1	0.93	2	10.7	0.5
RG09	Rock	0.046	9	2	0.32	112	0.140	3	0.62	0.021	0.02	3.0	0.03	0.9	<0.1	<0.05	2	0.7	0.6
RG10	Rock	0.109	12	2	0.50	29	0.100	1	1.36	0.031	0.14	0.5	<0.01	1.1	<0.1	<0.05	3	<0.5	<0.2

**QUALITY CONTROL REPORT**

WHI13000578.1

Method	WGHT	G6	1DX15	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
<b>Pulp Duplicates</b>																					
13NG014	Rock	2.30	<0.005	1.7	124.1	4.9	11	<0.1	10.7	6.0	153	2.04	<0.5	3.0	1.7	4	<0.1	0.2	<0.1	61	0.39
REP 13NG014	QC			2.3	128.1	4.8	12	0.1	11.0	6.4	155	2.04	<0.5	<0.5	1.8	4	0.2	0.2	<0.1	61	0.38
13NG006	Rock	2.56	0.013	0.2	2.5	1.0	36	<0.1	10.9	1.5	76	0.56	5.2	10.3	0.2	16	0.6	1.4	<0.1	13	33.32
REP 13NG006	QC			0.1	2.1	0.9	32	<0.1	10.7	1.6	68	0.50	5.2	7.7	0.1	13	0.7	1.2	<0.1	12	31.94
1902	Rock	0.32	<0.005	1.1	26.6	4.5	48	0.2	10.3	6.5	279	2.51	3.0	<0.5	3.6	15	0.1	0.2	0.2	45	0.07
REP 1902	QC		0.005																		
<b>Core Reject Duplicates</b>																					
13NG013	Rock	2.39	<0.005	1.4	62.0	3.8	24	<0.1	39.4	9.5	485	0.62	2.4	<0.5	0.5	2	<0.1	0.6	<0.1	4	0.08
DUP 13NG013	QC		<0.005	1.3	62.2	3.6	25	<0.1	40.3	9.3	481	0.65	2.8	<0.5	0.5	2	<0.1	0.7	<0.1	4	0.08
<b>Reference Materials</b>																					
STD DS10	Standard			13.4	142.7	133.1	350	1.9	69.3	12.5	872	2.66	43.6	83.9	6.6	62	2.5	8.5	10.7	42	1.05
STD DS10	Standard			14.7	159.8	159.4	364	2.1	73.3	12.8	895	2.84	45.5	95.3	7.8	70	2.8	9.7	12.2	45	1.05
STD DS10	Standard			15.5	162.8	155.7	361	2.1	77.7	13.2	884	2.73	46.5	74.2	7.5	72	2.6	9.4	11.4	43	1.08
STD OXC109	Standard		0.203																		
STD OXC109	Standard		0.188																		
STD OXC109	Standard		0.190																		
STD OXC109	Standard			1.4	32.1	9.6	39	<0.1	67.2	18.3	402	2.75	<0.5	184.3	1.4	127	<0.1	<0.1	<0.1	46	0.61
STD OXC109	Standard			1.5	36.7	10.9	43	<0.1	73.1	19.8	398	2.88	0.9	199.4	1.4	136	<0.1	<0.1	<0.1	48	0.62
STD OXC109	Standard			1.6	36.2	11.3	40	<0.1	70.9	19.4	410	2.81	0.6	188.1	1.5	141	<0.1	<0.1	<0.1	47	0.64
STD OXI96	Standard		1.854																		
STD OXI96	Standard		1.879																		
STD OXI96	Standard		1.743																		
STD OXL93	Standard		5.534																		
STD OXL93	Standard		5.730																		
STD OXL93	Standard		5.898																		
STD OXI96 Expected			1.802																		
STD OXL93 Expected			5.841																		
STD DS10 Expected				14.69	154.61	150.55	352.9	1.98	74.6	12.9	861	2.7188	43.7	91.9	7.5	67.1	2.48	7.8	11.65	43	1.0355



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**QUALITY CONTROL REPORT** WHI13000578.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
<b>Pulp Duplicates</b>																			
13NG014	Rock	0.006	3	25	0.31	30	0.246	3	0.67	0.012	0.10	<0.1	<0.01	7.7	<0.1	0.12	4	1.0	<0.2
REP 13NG014	QC	0.006	3	25	0.31	30	0.238	2	0.66	0.012	0.11	<0.1	<0.01	8.0	<0.1	0.13	4	1.3	<0.2
13NG006	Rock	0.021	2	7	0.41	7	0.001	<1	0.04	<0.001	<0.01	0.2	0.16	0.5	<0.1	0.05	<1	<0.5	<0.2
REP 13NG006	QC	0.018	2	7	0.40	6	<0.001	<1	0.04	<0.001	<0.01	0.1	0.13	0.4	<0.1	<0.05	<1	<0.5	<0.2
1902	Rock	0.073	5	33	0.68	122	0.064	<1	1.42	0.029	0.43	<0.1	<0.01	3.4	0.2	<0.05	5	<0.5	<0.2
REP 1902	QC																		
<b>Core Reject Duplicates</b>																			
13NG013	Rock	0.038	5	7	0.12	45	<0.001	<1	0.16	<0.001	0.03	<0.1	<0.01	1.3	<0.1	<0.05	<1	<0.5	<0.2
DUP 13NG013	QC	0.041	5	8	0.12	42	<0.001	<1	0.16	<0.001	0.03	<0.1	<0.01	1.0	<0.1	<0.05	<1	<0.5	<0.2
<b>Reference Materials</b>																			
STD DS10	Standard	0.079	18	52	0.76	326	0.074	5	0.99	0.064	0.33	3.3	0.31	3.1	4.7	0.28	4	3.4	4.4
STD DS10	Standard	0.076	18	59	0.82	328	0.081	6	1.06	0.066	0.33	3.4	0.32	2.8	5.1	0.27	5	2.4	5.5
STD DS10	Standard	0.074	18	58	0.78	353	0.078	5	1.06	0.068	0.33	3.2	0.28	3.1	4.9	0.28	5	2.3	5.3
STD OXC109	Standard																		
STD OXC109	Standard																		
STD OXC109	Standard																		
STD OXC109	Standard	0.106	12	55	1.44	53	0.359	1	1.48	0.676	0.41	0.2	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
STD OXC109	Standard	0.109	13	58	1.45	57	0.380	1	1.53	0.689	0.41	0.2	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
STD OXC109	Standard	0.100	12	59	1.41	54	0.359	1	1.51	0.676	0.43	0.2	<0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
STD OXI96	Standard																		
STD OXI96	Standard																		
STD OXI96	Standard																		
STD OXL93	Standard																		
STD OXL93	Standard																		
STD OXL93	Standard																		
STD OXI96 Expected																			
STD OXL93 Expected																			
STD DS10 Expected		0.073	17.5	54.6	0.7651	349	0.0817		1.0259	0.0838	0.3245	3.34	0.289	2.8	4.79	0.2743	4.3	2.3	4.89

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.

QUALITY CONTROL REPORT

WHI13000578.1

		WGHT	G8	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
STD OXC109 Expected			0.201											201								
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.7	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	0.03	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
Prep Wash																						
G1-WHI	Prep Blank		<0.005	0.2	2.9	3.0	41	<0.1	2.8	3.8	541	1.88	<0.5	1.7	5.1	50	<0.1	<0.1	0.1	35	0.48	
G1-WHI	Prep Blank		<0.005	<0.1	3.6	3.0	44	<0.1	2.3	3.7	533	1.82	<0.5	<0.5	5.4	46	<0.1	<0.1	<0.1	35	0.41	

**QUALITY CONTROL REPORT**

**WHI13000578.1**

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD OXC109 Expected																			
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																			
G1-WHI	Prep Blank	0.065	11	6	0.53	151	0.093	1	0.85	0.088	0.47	<0.1	<0.01	2.1	0.3	<0.05	4	<0.5	<0.2
G1-WHI	Prep Blank	0.068	10	6	0.50	150	0.096	<1	0.83	0.055	0.46	<0.1	<0.01	2.1	0.3	<0.05	4	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

Client: **All-In Exploration Solutions Inc.**  
113A Platinum Rd.  
Whitehorse YT Y1A 5M3 CANADA

Submitted By: Ed Long/Riley Gibson  
Receiving Lab: Canada-Whitehorse  
Received: December 17, 2013  
Report Date: January 20, 2014  
Page: 1 of 2

# CERTIFICATE OF ANALYSIS

WHI13000580.1

## CLIENT JOB INFORMATION

Project: Jubilee  
Shipment ID: Batch #5  
P.O. Number  
Number of Samples: 20

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	20	Dry at 60C			WHI
SS80	20	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	20	Saving all or part of Soil Reject			WHI
1DX2	20	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## SAMPLE DISPOSAL

RTRN-PLP Return  
RTRN-RJT Return

## ADDITIONAL COMMENTS

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

Invoice To: **All-In Exploration Solutions Inc.**  
113A Platinum Rd.  
Whitehorse YT Y1A 5M3  
CANADA

CC:



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

Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
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**Client:** All-In Exploration Solutions Inc.  
113A Platinum Rd.  
Whitehorse YT Y1A 5M3 CANADA

**Project:** Jubilee  
**Report Date:** January 20, 2014

**Page:** 2 of 2

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

WHI13000580.1

Method	Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
24334	Soil		0.7	49.5	8.5	57	0.2	80.1	15.1	299	2.91	5.0	<0.5	0.9	49	0.3	0.3	0.2	71	0.29	0.071	10
24335	Soil		0.7	28.2	11.7	80	0.2	47.5	18.3	329	3.98	1.4	<0.5	0.6	97	0.2	0.2	<0.1	80	0.32	0.082	12
24336	Soil		1.2	22.8	9.2	61	<0.1	60.5	11.2	254	2.61	9.2	2.8	3.8	20	0.3	0.5	0.2	55	0.27	0.036	12
24337	Soil		2.8	27.3	32.7	68	0.7	17.8	10.9	1204	2.63	19.9	14.1	0.9	44	0.3	0.6	0.6	30	0.41	0.149	35
24339	Soil		0.9	23.2	10.0	73	0.1	27.1	15.8	887	3.64	1.5	<0.5	0.7	170	0.2	0.4	<0.1	87	0.92	0.125	12
24340	Soil		1.9	879.2	13.2	141	0.8	121.3	83.7	1107	6.42	19.0	1.1	0.6	535	1.0	1.3	19.5	101	1.51	0.085	2
24341	Soil		1.0	225.4	15.3	104	0.9	42.8	48.0	1591	4.50	6.3	<0.5	0.9	69	1.0	0.6	1.2	75	0.71	0.123	7
24342	Soil		0.5	44.8	7.3	26	<0.1	720.0	56.6	479	2.03	14.4	1.0	0.4	10	0.2	1.2	3.5	32	0.10	0.042	4
24343	Soil		3.1	31.5	14.3	318	0.1	25.0	13.4	3376	4.83	3.6	3.6	1.3	75	1.3	0.5	2.0	41	0.33	0.079	14
24344	Soil		1.3	45.5	8.4	113	0.1	63.0	21.0	694	4.31	4.2	3.9	1.5	170	0.4	0.5	0.3	100	0.40	0.096	14
24345	Soil		2.8	30.4	13.6	268	0.2	36.3	10.3	845	2.80	5.7	2.9	0.9	62	1.4	0.5	0.7	46	0.56	0.132	17
24346	Soil		1.9	16.0	8.9	70	0.2	15.9	8.4	771	2.50	1.8	<0.5	0.2	65	0.6	0.2	0.3	43	0.30	0.103	14
24442	Soil		2.6	53.0	11.7	88	0.1	225.8	29.6	596	4.54	13.0	1.1	1.9	100	0.4	0.7	0.7	107	0.45	0.079	9
24444	Soil		1.7	74.6	10.2	77	0.2	268.5	24.5	439	3.25	8.6	1.3	3.1	38	0.4	0.6	0.5	73	0.45	0.053	14
24445	Soil		9.1	89.7	85.3	104	0.3	564.6	26.9	375	2.85	6.3	2.6	10.1	21	1.2	0.8	1.9	56	0.58	0.047	17
24446	Soil		10.2	54.8	17.7	69	0.1	118.6	11.6	307	2.74	6.6	9.1	6.5	12	0.3	0.4	2.8	59	0.13	0.034	13
24447	Soil		1.8	54.0	11.0	59	0.1	110.8	15.9	347	3.20	4.2	1.5	4.0	19	0.2	0.2	0.6	79	0.21	0.083	16
24448	Soil		7.7	170.3	23.6	165	1.1	618.6	22.7	1040	2.86	12.3	14.9	3.3	17	1.4	0.4	2.0	43	0.44	0.051	45
24449	Soil		1.8	37.1	24.7	85	0.2	32.8	6.8	515	2.00	4.6	0.5	1.3	7	1.4	0.2	0.8	33	0.10	0.048	15
24450	Soil		3.0	58.8	11.0	65	0.3	117.9	9.8	252	2.04	4.0	<0.5	1.4	11	0.3	0.2	0.7	42	0.15	0.082	9





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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **All-In Exploration Solutions Inc.**  
 113A Platinum Rd.  
 Whitehorse YT Y1A 5M3 CANADA

Project: Jubilee  
 Report Date: January 20, 2014

Page: 2 of 2

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI13000580.1

Method	Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
			Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
			ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
24334	Soil		90	1.15	320	0.092	7	2.62	0.027	0.15	0.3	0.02	3.4	0.5	<0.05	8	1.5	<0.2	
24335	Soil		79	1.09	182	0.118	4	3.88	0.011	0.52	0.2	0.05	6.3	0.4	0.09	10	1.9	<0.2	
24336	Soil		129	1.10	214	0.123	5	2.17	0.019	0.15	0.5	0.03	3.9	0.3	<0.05	7	0.9	<0.2	
24337	Soil		30	0.64	159	0.037	2	2.65	0.015	0.20	0.7	0.11	1.6	0.5	0.13	7	1.1	<0.2	
24339	Soil		39	1.43	201	0.092	4	3.98	0.008	0.94	0.2	0.10	3.1	0.4	0.07	10	0.8	<0.2	
24340	Soil		116	1.95	237	0.162	4	5.17	0.095	0.48	1.2	0.04	11.3	1.1	<0.05	10	0.7	1.1	
24341	Soil		39	0.82	273	0.076	5	2.40	0.030	0.17	0.2	0.14	3.5	0.5	0.11	8	0.7	<0.2	
24342	Soil		830	1.92	80	0.024	8	1.03	0.004	0.03	0.7	<0.01	2.2	0.1	<0.05	4	0.7	2.0	
24343	Soil		25	0.84	145	0.081	6	2.66	0.019	0.25	7.5	0.06	4.2	0.5	0.05	8	0.6	<0.2	
24344	Soil		134	1.93	328	0.155	3	4.60	0.018	0.61	0.2	0.04	6.9	0.6	0.06	12	0.8	<0.2	
24345	Soil		68	1.06	240	0.057	4	2.79	0.018	0.22	0.6	0.01	2.8	0.5	0.09	8	<0.5	<0.2	
24346	Soil		21	0.65	139	0.071	2	2.37	0.015	0.32	0.3	0.03	1.6	0.5	0.09	6	0.6	<0.2	
24442	Soil		224	2.31	205	0.206	3	3.83	0.024	0.47	0.8	0.04	9.0	1.5	0.07	10	1.2	<0.2	
24444	Soil		265	1.91	241	0.154	4	2.79	0.026	0.23	0.5	0.01	5.0	0.7	<0.05	8	0.9	<0.2	
24445	Soil		238	1.69	147	0.126	5	1.86	0.019	0.23	2.1	0.04	5.0	0.8	0.34	6	1.4	<0.2	
24446	Soil		130	1.01	128	0.133	3	2.20	0.012	0.17	1.6	0.03	4.1	0.7	<0.05	7	0.9	<0.2	
24447	Soil		103	1.36	197	0.176	3	2.62	0.018	0.34	0.5	0.03	5.1	0.4	0.08	8	1.3	<0.2	
24448	Soil		195	2.07	118	0.081	5	1.95	0.013	0.20	2.5	0.04	3.9	0.9	0.08	6	2.8	0.2	
24449	Soil		33	0.56	116	0.053	4	1.45	0.012	0.16	0.4	0.02	1.6	0.5	0.06	5	0.6	<0.2	
24450	Soil		65	0.78	100	0.075	1	1.51	0.013	0.19	0.4	0.03	2.0	0.5	0.08	5	0.7	<0.2	

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**QUALITY CONTROL REPORT**

WHI13000580.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
<b>Reference Materials</b>																					
STD DS10	Standard	14.5	152.5	145.0	345	2.0	72.4	12.6	839	2.89	43.3	77.9	7.9	67	2.7	9.6	11.3	35	1.00	0.075	18
STD OXC109	Standard	1.5	38.4	10.4	39	<0.1	72.8	19.2	380	3.16	0.7	201.8	1.5	145	<0.1	<0.1	<0.1	42	0.77	0.102	13
STD DS10 Expected		14.69	154.61	150.55	352.9	1.98	74.6	12.9	861	2.7188	43.7	91.9	7.5	67.1	2.48	7.8	11.65	43	1.0355	0.073	17.5
STD OXC109 Expected		201																			
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

**QUALITY CONTROL REPORT**

WHI13000580.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
<b>Reference Materials</b>																	
STD DS10	Standard	59	0.79	317	0.083	13	1.04	0.062	0.33	3.5	0.28	3.0	5.0	0.31	5	3.0	5.4
STD OXC109	Standard	58	1.38	57	0.384	8	1.54	0.675	0.41	0.2	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
STD DS10 Expected		54.6	0.7651	349	0.0817		1.0259	0.0638	0.3245	3.34	0.289	2.8	4.79	0.2743	4.3	2.3	4.89
STD OXC109 Expected																	
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

Acme Analytical Laboratories (Vancouver) Ltd.  
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PHONE (604) 253-3158

**Client:** All-In Exploration Solutions Inc.  
113A Platinum Rd.  
Whitehorse YT Y1A 5M3 CANADA

Submitted By: Ed Long/Riley Gibson  
Receiving Lab: Canada-Whitehorse  
Received: December 17, 2013  
Report Date: January 20, 2014  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

WHI13000579.1

### CLIENT JOB INFORMATION

Project: Jubilee  
Shipment ID: Batch #4  
P.O. Number  
Number of Samples: 5

### SAMPLE DISPOSAL

RTRN-PLP Return  
RTRN-RJT Return

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	5	Dry at 60C			WHI
SS80	5	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	5	Saving all or part of Soil Reject			WHI
1DX2	4	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

### ADDITIONAL COMMENTS

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

Invoice To: All-In Exploration Solutions Inc.  
113A Platinum Rd.  
Whitehorse YT Y1A 5M3  
CANADA

CC:



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



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **All-In Exploration Solutions Inc.**  
 113A Platinum Rd.  
 Whitehorse YT Y1A 5M3 CANADA

Project: Jubilee  
 Report Date: January 20, 2014

Page: 2 of 2

Part: 1 of 2

**CERTIFICATE OF ANALYSIS**

**WHI13000579.1**

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	0.1	0.1	0.1	2	0.01	0.001	1	
R2-SI-001	Soil	0.7	16.8	14.2	56	<0.1	27.0	6.9	282	1.73	4.8	2.9	2.5	33	0.8	0.6	<0.1	40	3.47	0.074	12
R2-SI-002	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R2-SI-003	Soil	0.6	15.8	13.0	52	<0.1	23.9	6.4	259	1.64	4.4	<0.5	2.8	38	0.6	0.5	<0.1	37	3.94	0.071	12
R2-SI-004	Soil	0.5	17.7	15.1	58	0.2	26.1	6.7	275	1.70	4.1	3.0	2.6	35	0.8	0.5	<0.1	38	3.53	0.079	13
R2-SI-005	Soil	0.5	12.7	7.3	55	<0.1	23.4	6.4	255	1.85	6.6	4.8	3.9	42	0.8	0.7	<0.1	40	6.03	0.071	16

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 PHONE (604) 253-3158

Client: **All-In Exploration Solutions Inc.**  
 113A Platinum Rd.  
 Whitehorse YT Y1A 5M3 CANADA

Project: Jubilee  
 Report Date: January 20, 2014

Page: 2 of 2

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI13000579.1

Method	Analyte	1DX16	1DX15	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	
		Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
R2-Si-001	Soil	36	1.11	138	0.059	2	0.87	0.018	0.06	0.2	0.05	2.8	<0.1	<0.05	3	<0.5	<0.2
R2-Si-002	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R2-Si-003	Soil	35	1.05	143	0.081	2	0.81	0.019	0.06	0.2	0.12	2.4	<0.1	<0.05	3	<0.5	<0.2
R2-Si-004	Soil	37	1.02	156	0.081	4	0.86	0.019	0.07	0.2	0.05	2.7	<0.1	<0.05	3	<0.5	<0.2
R2-Si-005	Soil	34	1.45	111	0.054	<1	0.83	0.013	0.05	0.2	0.05	2.8	<0.1	<0.05	3	0.5	<0.2



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**Client:** All-In Exploration Solutions Inc.  
 113A Platinum Rd.  
 Whitehorse YT Y1A 5M3 CANADA

**Project:** Jubilee  
**Report Date:** January 20, 2014

Page: 1 of 1

Part: 1 of 2

QUALITY CONTROL REPORT

WHI13000579.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
R2-SI-005	Soil	0.5	12.7	7.3	55	<0.1	23.4	6.4	255	1.85	6.6	4.8	3.9	42	0.8	0.7	<0.1	40	6.03	0.071	18
REP R2-SI-005	QC	0.6	12.8	6.7	50	<0.1	22.8	5.9	218	1.80	6.6	3.7	3.4	37	0.8	0.6	<0.1	39	5.98	0.069	15
Reference Materials																					
STD DS10	Standard	14.3	144.4	151.1	351	2.0	74.8	13.1	820	2.88	44.2	96.5	7.9	61	2.6	9.0	10.9	40	0.96	0.072	18
STD OXC109	Standard	1.6	34.3	11.2	37	<0.1	72.4	19.8	391	3.08	0.5	189.2	1.3	137	<0.1	<0.1	<0.1	45	0.64	0.103	12
STD DS10 Expected		14.69	154.61	150.55	352.9	1.96	74.6	12.9	861	2.7188	43.7	91.9	7.5	67.1	2.48	7.8	11.65	43	1.0355	0.073	17.5
STD OXC109 Expected											201										
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1	

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Client: **All-in Exploration Solutions Inc.**  
 113A Platinum Rd.  
 Whitehorse YT Y1A 5M3 CANADA

Project: Jubilee  
 Report Date: January 20, 2014

Page: 1 of 1

Part: 2 of 2

QUALITY CONTROL REPORT

WHI13000579.1

Method	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	1DX15	1DX16	
Analyte	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
R2-SI-005	Soil	34	1.45	111	0.054	<1	0.83	0.013	0.05	0.2	0.05	2.6	<0.1	<0.05	3	0.5	<0.2
REP R2-SI-005	QC	31	1.34	103	0.052	2	0.78	0.012	0.04	0.2	0.05	2.3	<0.1	<0.05	3	<0.5	<0.2
Reference Materials																	
STD DS10	Standard	54	0.76	333	0.080	7	1.00	0.082	0.31	3.3	0.32	2.9	4.9	0.24	5	1.9	5.2
STD OXC109	Standard	54	1.33	55	0.375	<1	1.46	0.621	0.42	0.2	<0.01	0.9	<0.1	<0.05	5	0.5	<0.2
STD DS10 Expected		54.6	0.7651	349	0.0817		1.0259	0.0638	0.3245	3.34	0.289	2.8	4.79	0.2743	4.3	2.3	4.89
STD OXC109 Expected																	
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2





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PHONE (604) 253-3158

Client: All-In Exploration Solutions Inc.
113A Platinum Rd.
Whitehorse YT Y1A 5M3 CANADA

Submitted By: Ed Long/Riley Gibson
Receiving Lab: Canada-Whitehorse
Received: February 07, 2014
Report Date: February 17, 2014
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI14000001.1

CLIENT JOB INFORMATION

Project: Dun/Jubilee
Shipment ID:
P.O. Number
Number of Samples: 26

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Procedure Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SPLP, RJSV, and 1DX2.

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

ADDITIONAL COMMENTS

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

Invoice To: All-In Exploration Solutions Inc.
113A Platinum Rd.
Whitehorse YT Y1A 5M3
CANADA

CC:



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\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

**CERTIFICATE OF ANALYSIS**

WHI14000001.1

Method	Analyte	Unit	MDL	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
11761	Silt			1.2	83.7	10.0	153	0.2	90.3	25.4	533	4.58	33.1	8.8	5.4	32	0.2	0.5	0.2	78	0.39	0.123	21
11762	Silt			1.0	43.5	4.7	88	0.2	40.0	15.4	486	3.35	15.7	57.1	2.8	29	0.2	0.3	0.2	65	0.39	0.111	13
11763	Silt			0.9	70.8	5.1	118	0.4	68.9	20.7	562	3.65	17.0	5.7	3.4	39	0.4	0.3	0.2	69	0.55	0.121	21
11764	Silt			0.8	65.3	4.7	101	0.2	45.2	15.8	527	3.37	13.4	11.6	3.4	38	0.2	0.3	0.1	65	0.50	0.128	15
11765	Silt			0.7	52.0	3.8	78	0.2	45.4	15.7	453	3.48	21.2	2584.4	2.5	28	0.1	0.2	0.1	76	0.38	0.136	8
11766	Silt			0.7	54.2	4.4	95	0.1	45.8	15.9	448	3.31	20.0	2.6	3.7	28	0.1	0.3	0.2	63	0.36	0.121	13
11767	Silt			0.5	66.8	3.8	87	0.1	42.6	14.6	423	3.44	16.5	391.9	3.3	28	0.1	0.1	0.2	67	0.39	0.149	10
11768	Silt			0.4	48.2	3.3	64	<0.1	28.3	9.7	283	2.38	9.0	4.9	2.4	28	<0.1	0.1	<0.1	50	0.44	0.131	7
11769	Silt			0.4	20.9	2.3	49	0.3	24.8	9.0	270	2.12	9.4	3331.9	2.4	28	<0.1	0.1	<0.1	49	0.46	0.131	7
11770	Silt			0.3	70.8	3.9	71	<0.1	29.4	10.9	330	2.59	10.4	1.6	2.6	25	<0.1	0.1	<0.1	57	0.43	0.125	7
221	Silt			0.4	28.9	2.5	52	<0.1	24.8	13.7	293	2.47	10.7	2.2	1.7	19	<0.1	0.1	<0.1	64	0.40	0.105	7
222	Silt			0.5	35.2	2.7	53	0.1	31.2	14.4	296	2.57	26.4	32.9	1.7	20	<0.1	0.2	<0.1	69	0.40	0.107	6
223	Silt			0.6	47.4	3.1	58	<0.1	33.9	14.5	323	2.62	37.4	9.8	1.8	21	0.1	0.2	<0.1	68	0.45	0.116	7
224	Silt			0.6	40.3	3.5	62	0.1	38.1	15.6	357	2.80	44.4	12.4	1.6	21	0.2	0.2	<0.1	68	0.39	0.103	7
225	Silt			0.5	142.1	6.0	80	<0.1	32.0	13.1	293	2.51	39.1	8.1	1.7	19	<0.1	0.2	<0.1	65	0.38	0.111	6
226	Silt			0.4	44.7	2.9	50	0.7	28.5	11.2	270	2.29	37.5	6506.3	1.7	18	0.1	0.1	<0.1	58	0.40	0.123	6
1870	Silt			0.5	13.5	5.0	43	<0.1	21.5	6.3	204	1.62	6.5	2.6	2.1	53	0.7	0.8	<0.1	37	7.37	0.071	12
1894	Silt			0.9	17.9	14.4	48	0.1	24.8	6.5	260	1.88	11.7	6.5	2.6	42	0.8	1.7	0.5	40	4.51	0.069	12
1895	Silt			0.8	24.3	6.0	42	<0.1	27.3	7.0	282	1.69	6.6	4.3	2.6	36	0.5	0.7	<0.1	42	2.96	0.064	11
1896	Silt			0.6	17.9	16.1	41	0.1	24.7	6.2	253	1.46	9.5	5.3	3.2	47	0.6	1.0	0.5	34	5.81	0.066	12
1897	Silt			1.3	22.4	5.5	44	0.2	21.8	5.2	234	1.32	7.8	2.2	1.8	51	0.6	1.2	0.1	30	7.32	0.065	10
1898	Silt			1.4	32.7	7.2	65	0.1	25.3	5.3	273	1.31	10.0	2.7	1.6	48	1.1	1.5	0.1	30	6.59	0.088	12
1899	Silt			0.5	11.9	4.1	33	<0.1	21.9	5.7	240	1.13	4.1	6.2	1.5	50	0.6	0.6	<0.1	25	8.44	0.078	11
1900	Silt			0.6	14.4	3.9	36	<0.1	20.8	5.5	202	1.47	4.7	9.6	2.6	50	0.4	0.5	<0.1	37	7.37	0.055	10
1901	Silt			0.5	33.1	3.1	60	<0.1	32.1	12.3	286	2.49	27.1	6.4	2.2	19	<0.1	0.2	<0.1	58	0.42	0.117	7
1902	Silt			1.2	74.4	6.1	112	0.1	71.6	20.1	370	4.46	63.7	7.3	4.2	49	0.3	1.0	<0.1	78	0.34	0.138	16



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 PHONE (604) 253-3158

Client: **All-In Exploration Solutions Inc.**  
 113A Platinum Rd.  
 Whitehorse YT Y1A 5M3 CANADA

Project: **Dun/Jubilee**  
 Report Date: **February 17, 2014**

Page: 2 of 2

Part: 2 of 2

**CERTIFICATE OF ANALYSIS** WHI14000001.1

	Method Analyte Unit MDL	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
11761	Silt	80	1.03	138	0.096	2	2.14	0.009	0.44	<0.1	0.05	5.2	0.3	<0.05	6	<0.5	<0.2
11762	Silt	53	0.89	114	0.077	2	1.77	0.009	0.26	<0.1	0.03	4.5	0.2	<0.05	6	<0.5	<0.2
11763	Silt	55	0.94	115	0.081	2	1.96	0.010	0.38	0.1	0.06	5.0	0.2	<0.05	6	1.0	<0.2
11764	Silt	54	1.01	111	0.090	1	1.90	0.008	0.32	0.2	0.03	5.0	0.2	<0.05	6	<0.5	<0.2
11765	Silt	57	1.04	132	0.103	<1	1.96	0.008	0.37	0.1	0.01	5.5	0.2	<0.05	6	<0.5	<0.2
11766	Silt	51	0.96	98	0.091	<1	1.80	0.007	0.28	<0.1	0.03	4.2	0.2	<0.05	6	0.7	<0.2
11767	Silt	56	1.03	105	0.091	<1	1.88	0.009	0.33	0.3	<0.01	4.8	0.2	<0.05	6	<0.5	<0.2
11768	Silt	39	0.72	92	0.072	<1	1.29	0.015	0.22	0.4	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
11769	Silt	38	0.64	79	0.068	<1	1.20	0.016	0.19	0.2	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
11770	Silt	47	0.85	113	0.081	<1	1.53	0.014	0.27	<0.1	0.01	3.6	0.1	<0.05	5	<0.5	<0.2
221	Silt	47	0.83	177	0.144	<1	1.45	0.018	0.36	0.1	0.01	3.6	0.1	<0.05	5	<0.5	<0.2
222	Silt	53	0.86	181	0.143	<1	1.61	0.021	0.43	0.1	0.01	4.6	0.1	<0.05	5	<0.5	<0.2
223	Silt	52	0.86	180	0.131	<1	1.53	0.017	0.40	<0.1	0.01	4.7	0.2	0.05	5	<0.5	<0.2
224	Silt	50	0.87	164	0.123	<1	1.59	0.016	0.35	0.2	0.02	4.6	0.2	<0.05	5	<0.5	<0.2
225	Silt	48	0.86	161	0.124	<1	1.48	0.017	0.39	0.1	0.03	4.4	0.1	<0.05	5	<0.5	<0.2
226	Silt	45	0.78	142	0.113	<1	1.32	0.017	0.34	0.2	0.03	3.7	0.2	<0.05	4	<0.5	<0.2
1870	Silt	38	1.15	100	0.046	2	0.77	0.013	0.05	0.2	0.04	2.2	<0.1	<0.05	2	<0.5	<0.2
1894	Silt	31	0.73	119	0.047	2	0.73	0.013	0.05	0.5	0.03	2.2	<0.1	<0.05	2	<0.5	<0.2
1895	Silt	38	0.83	105	0.061	1	0.79	0.015	0.06	0.2	0.03	2.5	<0.1	<0.05	3	<0.5	<0.2
1896	Silt	30	0.81	114	0.046	<1	0.63	0.012	0.05	0.5	0.03	2.2	<0.1	<0.05	2	<0.5	<0.2
1897	Silt	26	2.45	101	0.037	1	0.55	0.012	0.05	0.3	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1898	Silt	28	1.93	141	0.033	3	0.60	0.010	0.06	0.3	0.05	2.1	<0.1	0.06	2	<0.5	<0.2
1899	Silt	27	3.57	62	0.033	1	0.59	0.010	0.04	0.1	0.05	1.9	<0.1	0.06	2	<0.5	<0.2
1900	Silt	33	2.25	76	0.050	2	0.61	0.013	0.04	0.2	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1901	Silt	48	0.88	120	0.096	<1	1.52	0.012	0.30	<0.1	<0.01	4.2	0.2	<0.05	5	<0.5	<0.2
1902	Silt	56	0.92	177	0.102	<1	2.10	0.011	0.43	<0.1	0.01	5.5	0.2	0.06	6	<0.5	<0.2

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 PHONE (604) 253-3158

Client: **All-In Exploration Solutions Inc.**  
 113A Platinum Rd.  
 Whitehorse YT Y1A 5M3 CANADA

Project: Dun/Jubilee  
 Report Date: February 17, 2014

Page: 1 of 1

Part: 1 of 2

QUALITY CONTROL REPORT

WHI14000001.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
<b>Pulp Duplicates</b>																					
1902	Silt	1.2	74.4	6.1	112	0.1	71.6	20.1	370	4.48	63.7	7.3	4.2	49	0.3	1.0	<0.1	76	0.34	0.138	16
REP 1902	QC	1.3	71.7	6.4	112	<0.1	72.1	20.6	357	4.36	64.1	7.3	4.1	46	0.2	1.0	0.1	71	0.34	0.137	16
<b>Reference Materials</b>																					
STD DS10	Standard	14.3	159.1	148.4	367	2.0	74.9	13.2	874	2.73	44.5	77.7	7.1	66	2.4	9.7	10.4	45	1.03	0.076	18
STD OXC109	Standard	1.4	38.0	10.8	35	<0.1	70.4	18.7	392	2.75	<0.5	199.9	1.4	134	<0.1	<0.1	<0.1	46	0.63	0.097	12
STD DS10 Expected		14.89	154.61	150.55	352.9	1.96	74.6	12.9	861	2.7188	43.7	91.9	7.5	67.1	2.48	7.8	11.65	43	1.0355	0.073	17.5
STD OXC109 Expected		201																			
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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**QUALITY CONTROL REPORT**

WHI14000001.1

Method	Analyte	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	1DX16	
		Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
<b>Pulp Duplicates</b>																	
1902	Silt	56	0.92	177	0.102	<1	2.10	0.011	0.43	<0.1	0.01	5.5	0.2	0.06	6	<0.5	<0.2
REP 1902	QC	53	0.90	175	0.107	<1	2.02	0.011	0.42	<0.1	0.01	5.3	0.3	0.06	6	<0.5	<0.2
<b>Reference Materials</b>																	
STD DS10	Standard	56	0.74	351	0.084	7	1.04	0.063	0.33	3.0	0.29	2.8	4.9	0.27	4	2.2	4.4
STD OXC109	Standard	58	1.43	53	0.379	<1	1.41	0.644	0.39	0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
STD DS10 Expected		54.6	0.7651	348	0.0817		1.0259	0.0638	0.3245	3.34	0.289	2.8	4.79	0.2743	4.3	2.3	4.89
STD OXC109 Expected																	
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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PHONE (604) 253-3158

Client: All-In Exploration Solutions Inc.
113A Platinum Rd.
Whitehorse YT Y1A 5M3 CANADA

Submitted By: Ed Long/Riley Gibson
Receiving Lab: Canada-Whitehorse
Received: December 17, 2013
Report Date: January 20, 2014
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI13000581.1

CLIENT JOB INFORMATION

Project: Jubilee
Shipment ID: Batch #6
P.O. Number
Number of Samples: 2

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Procedure Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include R200-500, G801, and 1DX2.

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

ADDITIONAL COMMENTS

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

Invoice To: All-In Exploration Solutions Inc.
113A Platinum Rd.
Whitehorse YT Y1A 5M3
CANADA

CC:



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



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Client: **All-in Exploration Solutions Inc.**  
 113A Platinum Rd.  
 Whitehorse YT Y1A 5M3 CANADA

Project: Jubilee  
 Report Date: January 20, 2014

Page: 2 of 2

Part: 1 of 2

**CERTIFICATE OF ANALYSIS** WHI13000581.1

Method	WGHT	G6	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
RX-002	Rock	2.98	0.008	0.3	2.1	1.1	32	<0.1	7.6	1.1	72	0.28	5.1	5.2	0.4	78	1.2	0.7	<0.1	6	36.51
RX-003	Rock	5.65	0.120	26.6	709.0	21.6	3507	6.5	1.9	7.6	5632	21.57	22.6	131.4	1.5	7	19.9	0.5	23.7	3	6.27

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Project: Jubilee  
 Report Date: January 20, 2014

Page: 2 of 2

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI13000581.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	P	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	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
RX-002	Rock	0.014	4	10	0.38	14	0.001	1	0.06	0.002	0.01	0.1	0.08	0.4	<0.1	0.08	<1	<0.5	<0.2
RX-003	Rock	0.005	6	6	0.18	12	0.002	<1	0.29	0.007	0.02	99.7	0.04	0.7	0.5	<0.05	5	0.8	0.6



**QUALITY CONTROL REPORT**

WHI13000581.1

Method	WGHT	G6	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ce	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
RX-003	Rock	5.65	0.120	28.6	709.0	21.6	3507	6.5	1.9	7.8	5632	21.57	22.6	131.4	1.5	7	19.9	0.5	23.7	3	6.27
REP RX-003	QC		0.118	26.5	721.4	21.8	3568	6.5	2.3	7.7	5736	21.80	22.0	129.7	1.6	7	19.1	0.5	23.6	3	6.68
Reference Materials																					
STD DS10	Standard			14.7	159.8	159.4	364	2.1	73.3	12.8	895	2.84	45.5	95.3	7.8	70	2.8	9.7	12.2	45	1.05
STD OXC109	Standard		0.190																		
STD OXC109	Standard			1.5	36.7	10.9	43	<0.1	73.1	19.8	398	2.88	0.9	199.4	1.4	136	<0.1	<0.1	<0.1	48	0.62
STD OXI98	Standard		1.743																		
STD OXL93	Standard		5.898																		
STD OXI98 Expected			1.802																		
STD OXL93 Expected			5.841																		
STD DS10 Expected				14.69	154.61	150.55	352.9	1.96	74.6	12.9	881	2.7188	43.7	91.9	7.5	67.1	2.48	7.8	11.65	43	1.0355
STD OXC109 Expected			0.201											201							
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1-WHI	Prep Blank		<0.005	0.1	4.1	3.1	49	<0.1	2.7	4.1	533	1.87	0.5	2.6	4.9	46	<0.1	<0.1	0.2	35	0.43

## QUALITY CONTROL REPORT

WHI13000581.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																					
RX-003	Rock			0.005	6	6	0.18	12	0.002	<1	0.29	0.007	0.02	99.7	0.04	0.7	0.5	<0.05	5	0.8	0.8
REP RX-003	QC			0.005	6	6	0.18	12	0.002	<1	0.29	0.007	0.02	>100	0.05	0.6	0.4	<0.05	5	0.8	0.5
Reference Materials																					
STD DS10	Standard			0.076	18	59	0.82	328	0.081	6	1.06	0.066	0.33	3.4	0.32	2.6	5.1	0.27	5	2.4	5.5
STD OXC109	Standard			0.109	13	58	1.45	57	0.380	1	1.53	0.689	0.41	0.2	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
STD OXI96	Standard																				
STD OXL93	Standard																				
STD OXI96 Expected																					
STD OXL93 Expected																					
STD DS10 Expected				0.073	17.5	54.6	0.7651	349	0.0817		1.0259	0.0638	0.3245	3.34	0.289	2.6	4.79	0.2743	4.3	2.3	4.89
STD OXC109 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank			<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																					
G1-WHI	Prep Blank			0.070	10	6	0.49	151	0.093	<1	0.83	0.059	0.47	<0.1	<0.01	1.8	0.3	<0.05	4	<0.5	<0.2